# Appendices

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B. Crash Data
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G. Alternatives Concepts
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I. Alternatives Concepts Cost Estimates
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K. Preferred Concept Cost Estimate
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# Appendix A

## Traffic Volume Data

| | | | |
|---|---|---|---|
| Location ID | YXMA | MPO ID | |
| Type | SPOT | HPMS ID | |
| On NHS | No | On HPMS | No |
| LRS ID | | LRS Loc Pt. | |
| SF Group | 2 | Route Type | |
| AF Group | R7 | Route | |
| GF Group | 1 | Active | Yes |
| Class Dist Grp | | Category | LOCAL 5 |
| Seas Clss Grp | R7 | | |
| WIM Group | | | |
| QC Group | Default | | |
| Fnct'l Class | Local | Milepost | |
| Located On | POMFRET: STAGE RD BETWEEN LIBRARY/POMFRET RD | | |
| Loc On Alias | TH2 | | |
| BETWEEN | LIBRARY ST AND POMFRET RD | | |
| More Detail | | | |

**AADT**

| | Year | AADT | DHV-30 | K % | D % | PA | BC | Src |
|---|---|---|---|---|---|---|---|---|
| | 2021 | 700[3] | | | | | | Grown from 2020 |
| | 2020 | 618[3] | | | | | | Grown from 2019 |
| | 2019 | 730[3] | | | | | | Grown from 2018 |
| | 2018 | 729[3] | | | | | | Grown from 2017 |
| | 2017 | 739[3] | | | | | | Grown from 2016 |

**AADT**

| | Year | AADT | DHV-30 | K % | D % | PA | BC | Src |
|---|---|---|---|---|---|---|---|---|
| | 2016 | 732[3] | | | | | | Grown from 2015 |
| | 2015 | 718 | 108 | 15 | | | | |
| | 2009 | 340 | | | | | | |

| | | | |
|---|---|---|---|
| Location ID | YXMG | MPO ID | |
| Type | SPOT | HPMS ID | |
| On NHS | No | On HPMS | No |
| LRS ID | | LRS Loc Pt. | |
| SF Group | 2 | Route Type | |
| AF Group | R7 | Route | |
| GF Group | 1 | Active | Yes |
| Class Dist Grp | | Category | LOCAL 5 |
| Seas Clss Grp | R7 | | |
| WIM Group | | | |
| QC Group | Default | | |
| Fnct'l Class | Local | Milepost | |
| Located On | POMFRET: LIBRARY RD JUST N OF STAGE RD | | |
| Loc On Alias | TH60 | | |
| NORTH OF | STAGE RD | | |
| More Detail ▶ | | | |

**AADT**

| | Year | AADT | DHV-30 | K % | D % | PA | BC | Src |
|---|---|---|---|---|---|---|---|---|
| | 2021 | 233[3] | | | | | | Grown from 2020 |
| | 2020 | 206[3] | | | | | | Grown from 2019 |
| | 2019 | 243[3] | | | | | | Grown from 2018 |
| | 2018 | 243[3] | | | | | | Grown from 2017 |
| | 2017 | 246[3] | | | | | | Grown from 2016 |

**AADT**

| | Year | AADT | DHV-30 | K % | D % | PA | BC | Src |
|---|---|---|---|---|---|---|---|---|
| | 2016 | 244[3] | | | | | | Grown from 2015 |
| | 2015 | 239 | 45 | 19 | | | | |
| | 2009 | 210 | | | | | | |

| | | | |
|---|---|---|---|
| Location ID | Y400 | MPO ID | |
| Type | SPOT | HPMS ID | |
| On NHS | No | On HPMS | No |
| LRS ID | S0166 | LRS Loc Pt. | 1.08 |
| SF Group | 2 | Route Type | |
| AF Group | R5 | Route | MC0166 |
| GF Group | 1 | Active | Yes |
| Class Dist Grp | R5 | Category | CC 4 |
| Seas Clss Grp | ALL2021 | | |
| WIM Group | | | |
| QC Group | Default | | |
| Fnct'l Class | Major Collector | Milepost | |
| Located On | POMFRET RD | | |
| Loc On Alias | TH1 | | |
| BETWEEN | SCHOOL VIEW DR AND BARBER HILL RD | | |

More Detail

**AADT**

| | Year | AADT | DHV-30 | K % | D % | PA | BC | Src |
|---|---|---|---|---|---|---|---|---|
| | 2021 | 1,677 | 195 | 12 | 52 | 1,575 (94%) | 102 (6%) | |
| | 2020 | 1,359[3] | | | | | | Grown from 2019 |
| | 2019 | 1,604[3] | | | | | | Grown from 2018 |
| | 2018 | 1,602[3] | | | | | | Grown from 2017 |
| | 2017 | 1,623[3] | | | | | | Grown from 2016 |

|<< < > >>| 1-5 of 15

**Vermont Agency of Transportation**

**Summary of Turning Movements**
**1/1/2013 Through 2/7/2023**

**Intersection ID:** 31413105 **Date:** 6/26/2013

**County:** WINDSOR **Hour:** 6:00 AM - 12:00 PM

**City:** POMFRET **Legs:** POMFRET RD (N/A), POMFRET RD (N/A), STAGE RD (N/A)

**LRS ID:** N/A **Location:** POMFRET RD at STAGE RD

**LRS Location Point:** N/A **Notes:**

| Summary By Movements | | | | | | | | Entering Volumes | |
|---|---|---|---|---|---|---|---|---|---|
| **Time of Day** | **N-S** | **N-W** | **S-N** | **S-W** | **W-N** | **W-S** | **Total** | **North** | **West** |
| **6:00** | 2 | 0 | | | 0 | 2 | 4 | 2 | 2 |
| **6:15** | 8 | 0 | 1 | 0 | 0 | 1 | 10 | 8 | 1 |
| **6:30** | 7 | 0 | 3 | 1 | 0 | 3 | 14 | 7 | 3 |
| **6:45** | 11 | 0 | 4 | 2 | 0 | 4 | 21 | 11 | 4 |
| **7:00** | 6 | 0 | 4 | 1 | 0 | 2 | 13 | 6 | 2 |
| **7:15** | 10 | 3 | 6 | 1 | 4 | 3 | 27 | 13 | 7 |
| **7:30** | 15 | 1 | 6 | 3 | 1 | 5 | 31 | 16 | 6 |
| **7:45** | 21 | 4 | 8 | 2 | 1 | 8 | 44 | 25 | 9 |
| **8:00** | 24 | 0 | 7 | 7 | 0 | 6 | 44 | 24 | 6 |
| **8:15** | 16 | 0 | 5 | 6 | 2 | 10 | 39 | 16 | 12 |
| **8:30** | 17 | 1 | 5 | 6 | 0 | 5 | 34 | 18 | 5 |
| **8:45** | 26 | 1 | 8 | 10 | 3 | 6 | 54 | 27 | 9 |
| **9:00** | 14 | 1 | 4 | 6 | 0 | 10 | 35 | 15 | 10 |
| **9:15** | 8 | 1 | 6 | 2 | 3 | 8 | 28 | 9 | 11 |
| **9:30** | 8 | 1 | 7 | 3 | 2 | 8 | 29 | 9 | 10 |
| **9:45** | 6 | 1 | 9 | 2 | 0 | 6 | 24 | 7 | 6 |
| **10:00** | 7 | 1 | 10 | 4 | 2 | 7 | 31 | 8 | 9 |
| **10:15** | 15 | 2 | 7 | 2 | 2 | 17 | 45 | 17 | 19 |
| **10:30** | 12 | 1 | 11 | 1 | 1 | 5 | 31 | 13 | 6 |
| **10:45** | 7 | 1 | 5 | 5 | 0 | 5 | 23 | 8 | 5 |
| **11:00** | 6 | 0 | 12 | 3 | 1 | 6 | 28 | 6 | 7 |
| **11:15** | 4 | 1 | 3 | 6 | 1 | 4 | 19 | 5 | 5 |
| **11:30** | 8 | 1 | 10 | 4 | 1 | 3 | 27 | 9 | 4 |
| **11:45** | 7 | 1 | 12 | 5 | 2 | 1 | 28 | 8 | 3 |
| | | | | | | | | | |
| **Total Count** | 265 | 22 | 153 | 82 | 26 | 135 | 683 | 287 | 161 |

**Generated 2/7/2023**

**Vermont Agency of Transportation**

**Summary of Turning Movements**
**1/1/2013 Through 2/7/2023**

**Intersection ID:** 31413105 **Date:** 8/12/2013

**County:** WINDSOR **Hour:** 12:00 PM - 6:00 PM

**City:** POMFRET **Legs:** POMFRET RD (N/A), POMFRET RD (N/A), STAGE RD (N/A)

**LRS ID:** N/A **Location:** POMFRET RD at STAGE RD

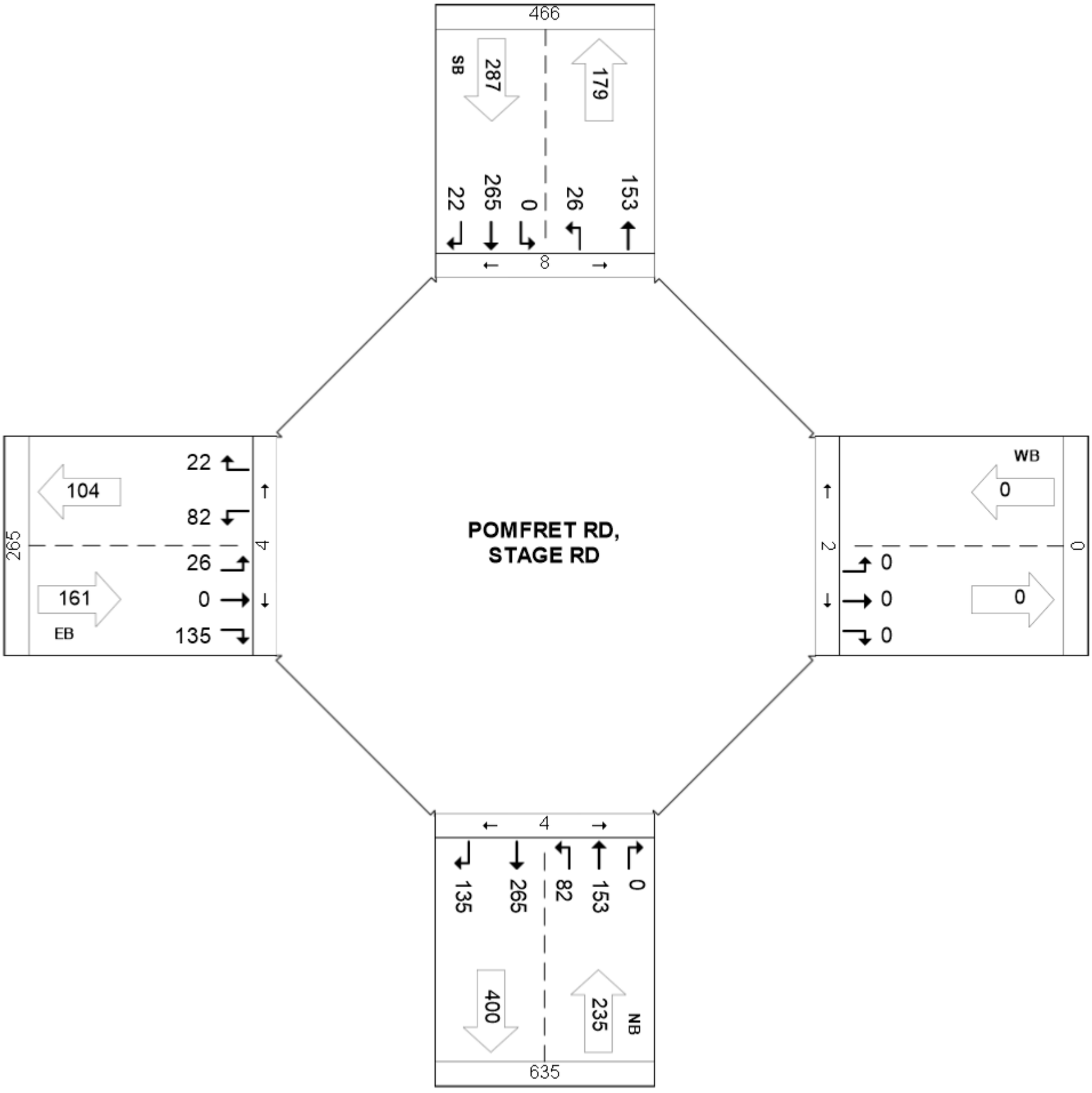
**LRS Location Point:** N/A **Notes:**

| | Summary By Movements | | | | | | | Entering Volumes | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time of Day** | **N-S** | **N-W** | **S-N** | **S-W** | **W-N** | **W-S** | **Total** | **North** | **South** | **West** |
| **12:00** | 14 | 1 | 2 | 4 | 1 | 11 | 33 | 15 | 6 | 12 |
| **12:15** | 12 | 1 | 9 | 4 | 0 | 8 | 34 | 13 | 13 | 8 |
| **12:30** | 5 | 4 | 8 | 1 | 3 | 7 | 28 | 9 | 9 | 10 |
| **12:45** | 7 | 1 | 14 | 7 | 2 | 9 | 40 | 8 | 21 | 11 |
| **13:00** | 4 | 3 | 8 | 11 | 1 | 4 | 31 | 7 | 19 | 5 |
| **13:15** | 12 | 1 | 7 | 6 | 1 | 5 | 32 | 13 | 13 | 6 |
| **13:30** | 7 | 1 | 9 | 2 | 1 | 3 | 23 | 8 | 11 | 4 |
| **13:45** | 9 | 1 | 5 | 12 | 1 | 4 | 32 | 10 | 17 | 5 |
| **14:00** | 9 | 0 | 9 | 6 | 1 | 7 | 32 | 9 | 15 | 8 |
| **14:15** | 5 | 1 | 6 | 7 | 1 | 12 | 32 | 6 | 13 | 13 |
| **14:30** | 6 | 0 | 13 | 5 | 1 | 7 | 32 | 6 | 18 | 8 |
| **14:45** | 11 | 0 | 12 | 3 | 1 | 3 | 30 | 11 | 15 | 4 |
| **15:00** | 7 | 0 | 12 | 6 | 2 | 3 | 30 | 7 | 18 | 5 |
| **15:15** | 7 | 2 | 10 | 7 | 2 | 10 | 38 | 9 | 17 | 12 |
| **15:30** | 14 | 0 | 13 | 6 | 1 | 2 | 36 | 14 | 19 | 3 |
| **15:45** | 12 | 1 | 13 | 11 | 2 | 6 | 45 | 13 | 24 | 8 |
| **16:00** | 6 | 1 | 10 | 6 | 2 | 6 | 31 | 7 | 16 | 8 |
| **16:15** | 13 | 1 | 11 | 5 | 1 | 2 | 33 | 14 | 16 | 3 |
| **16:30** | 13 | 2 | 18 | 8 | 1 | 5 | 47 | 15 | 26 | 6 |
| **16:45** | 12 | 0 | 16 | 7 | 0 | 4 | 39 | 12 | 23 | 4 |
| **17:00** | 12 | 1 | 13 | 8 | 0 | 3 | 37 | 13 | 21 | 3 |
| **17:15** | 11 | 1 | 12 | 6 | 1 | 4 | 35 | 12 | 18 | 5 |
| **17:30** | 12 | 2 | 12 | 9 | 2 | 3 | 40 | 14 | 21 | 5 |
| **17:45** | 12 | 1 | 16 | 6 | 2 | 3 | 40 | 13 | 22 | 5 |
| | | | | | | | | | | |
| **Total Count** | 232 | 26 | 258 | 153 | 30 | 131 | 830 | 258 | 411 | 161 |

**Generated 2/7/2023**

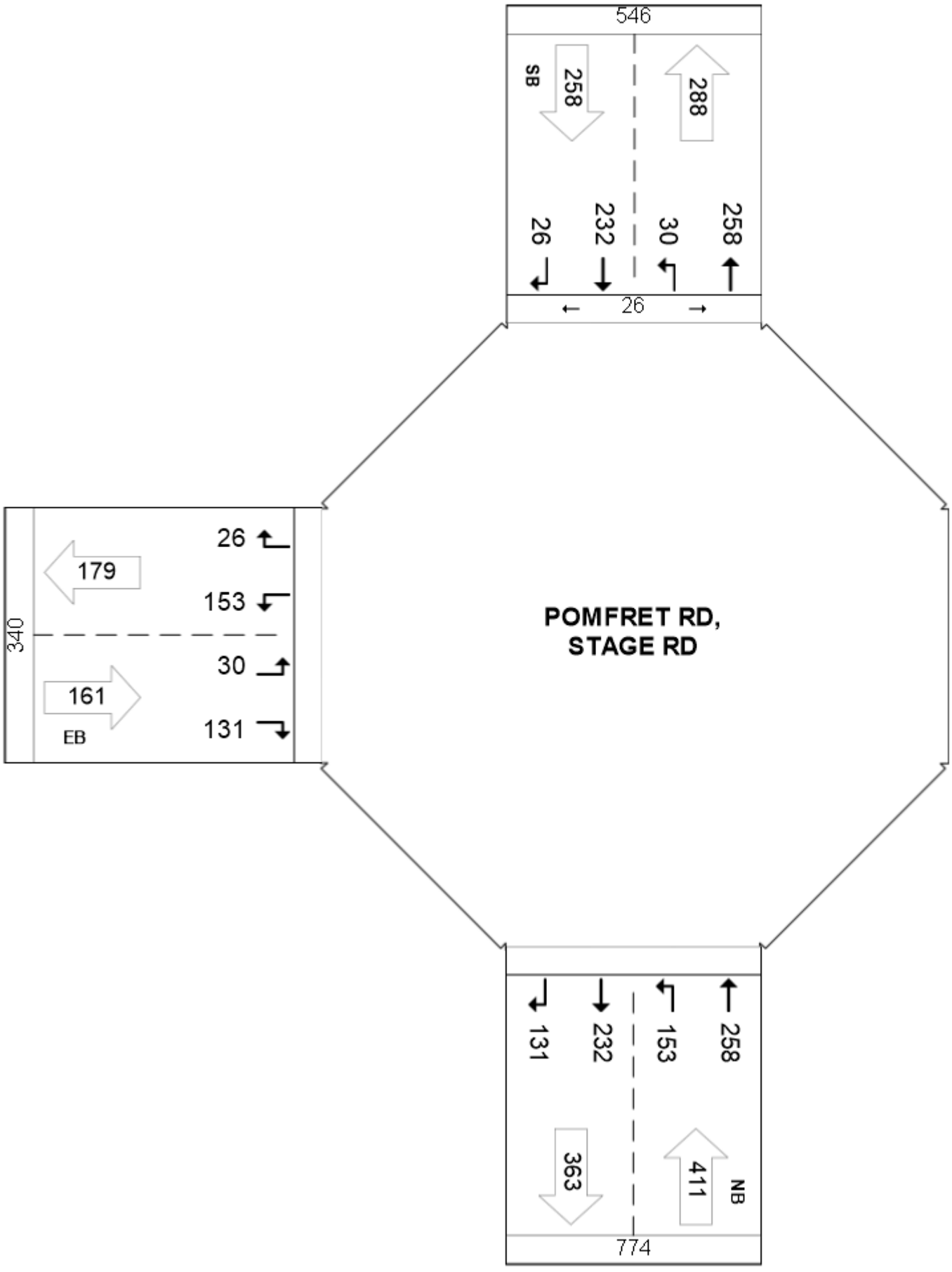
**ID 31413105: Total Count** **06/26/2013** **6:00 AM-12:00 PM**

Car & Pedestrian & Truck



**ID 31413105: Total Count** **08/12/2013** **12:00 PM-6:00 PM**

Car & Pedestrian & Truck



# Appendix B

## Crash Data

| ObjectID | Crash Date | City/Town | Address | AOT Route | Crash Type | Collision Di | Weather | Road Grou | Report Nur | Reporting , | Road Grou | AOT Actua | Animal | Time of Da | Intersectio | Impairmen | Involving | Non Repor | Reporting , | Road Char | Road Cond | Street Add | Surface Co | AOT Route | Coordinates |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 720535 | January 22 | Pomfret | | POMFRET I | Property D | Head On | Clear | Federal Aic | 16D30022 | VSP - B2 R | 3 | 1.53 | None/Othe | Day | 2381 Pomf | None | None | VTVSP110( | Not at a Ju | None | Dry | | S0166 | | 43.669436760854886,-72.53633885819998 |
| 732409 | December | Pomfret | 1806 POM | POMFRET I | Property D | Single Vehi | Freezing Pı | Federal Aic | 16D30496 | VSP - A3 M | 3 | 0.95 | None/Othe | Day | STAGE RD | None | None | VTVSP120( | Not at a Ju | Road Surfa | 1806 POM | Snow | | S0166 | 43.66220942919271,-72.53644049703968 |
| 4099009 | July 8, 201 | Pomfret | 1869 Pomf | POMFRET I | Property D | Single Vehi | Clear | Federal Aic | 19B202691 | VSP - B2 R | 3 | 1.01 | None/Othe | Day | 1869 Pomf | None | None | VTVSP110( | Not at a Ju | None | 1869 Pomf | Dry | | S0166 | 43.662616416790655,-72.53749801366999 |
| 5978950 | November | Pomfret | 1258-1298 | POMFRET I | Property D | Opp Direct | Freezing Pı | Federal Aic | 22B20052( | VSP - B2 R | 3 | | None/Othe | Day | Barber Hill | None | None | VTVSP110( | T - Intersec | Road Surfa | 1258-1298 | Snow | | 0 | 43.65611866778645,-72.52954304402589 |

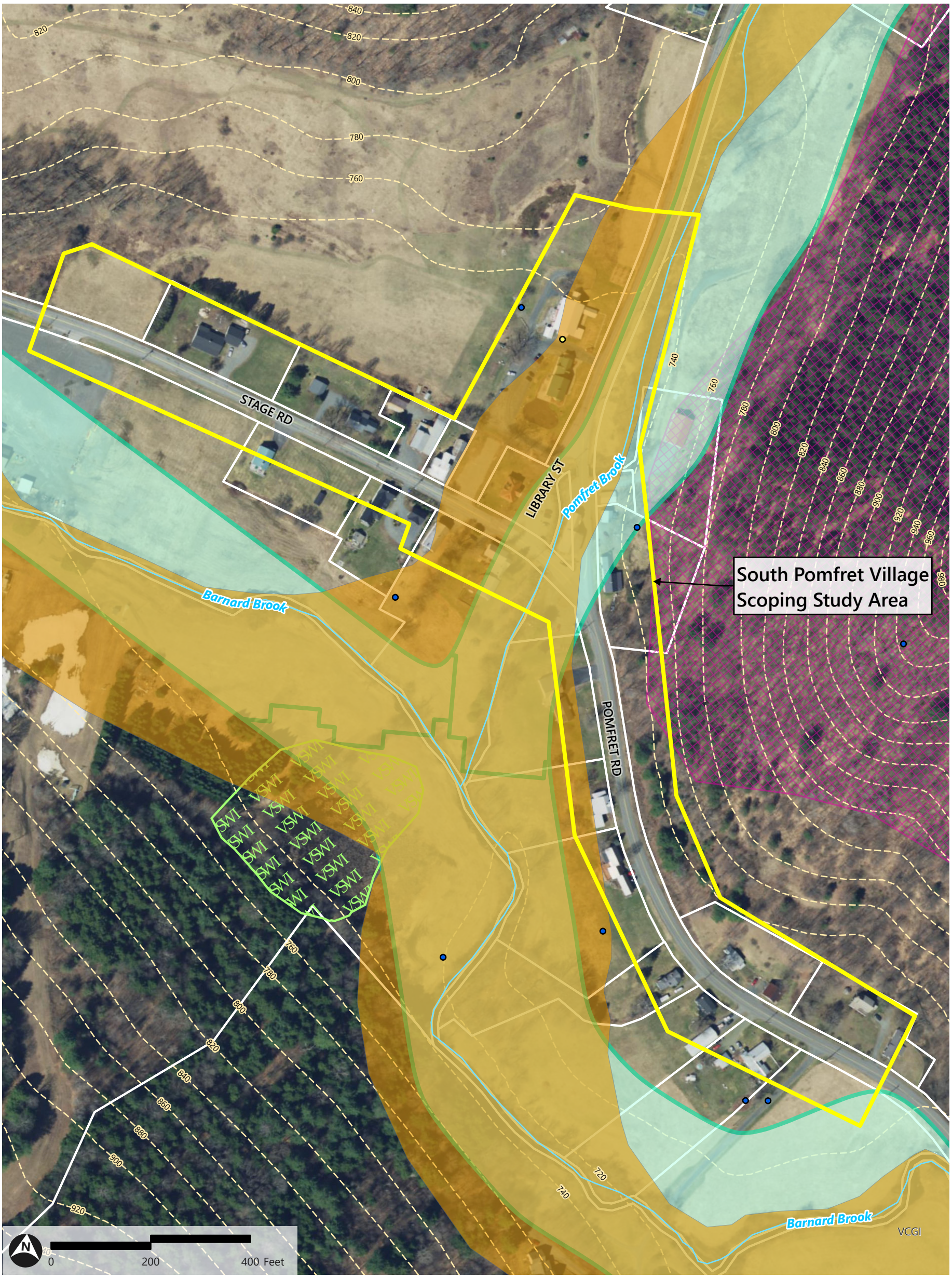
# Appendix C

## Natural and Cultural Resources Mapping

## Figure 1.0: Natural Resources Base Map

South Pomfret Village Bike and Pedestrian Safety Improvements Scoping Study | Pomfret, Vermont

**DRAFT** | *June 08, 2022*




*Sources: Background imagery by VCGI (Collected in 2016); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTrans (Vermont Agency of Transportation - 2021); VHB (Vanasse Hangen Brustlin - 2022).*

Path: \\vhb.com\gis\proj\SBurlington\58786.00 Pomfret Village\Project\Pomfret Village Scoping Study\Pomfret Village Scoping Study.aprx (User: JTherrien, Date: 6/8/2022)

# Appendix D

## Archaeological Resources Assessment

Crown Consulting Archaeology, LLC

PO Box 358
50 Main Street
Winooski, VT 05404-0358

August 29, 2022

Karen Sentoff
Transportation Consultant
VHB
40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403-7771

**RE: Archaeological Resources Assessment for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont**

Dear Karen,

Attached, please find an Archaeological Resources Assessment (ARA) for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

Crown Consulting Archaeology, LLC., conducted an ARA of the proposed project area and identified three areas as archaeologically sensitive for pre-Contact Native American sites within the general project area: a floodplain northeast of the Pomfret Road bridge, the lawn surrounding the Abbott Memorial Library, and the western-most section on the south side of Stage Road. As a result, the proposed project will disturb archaeological sensitive soils and a Phase I site identification survey is recommended as part of the Section 106 permitting process

Thank you for your interest in working with us on this project. Please feel free to contact me if you have any questions.

Sincerely,



Charles Knight, Ph.D.
Principal Investigator

# Archaeological Resources Assessment Report for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont

**Submitted to:**

**Karen Sentoff**
**Transportation Consultant**
**VHB**
**40 IDX Drive**
**Building 100, Suite 200**
**South Burlington, VT 05403-7771**

**Submitted by:**

**Charles Knight, Ph.D.**
**Crown Consulting Archaeology, LLC**
**PO Box 358**
**50 Main Street**
**Winooski, VT 05404-0358**

**August 29, 2022**

**CCA Report**
**No. 2022-029**

**Archaeological Resources Assessment Report for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont**

## Project Description

The Village of South Pomfret, with assistance from VHB proposes the South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont (Figure 1). The proposed project is a scoping study to identify alternatives, issues and costs and provide recommendations related to construction of pedestrian and bicycle facilities in South Pomfret Village, Vermont (Figure 2). The proposed scoping study is to evaluate the South Pomfret Village area, including the intersections of Pomfret Road and Stage Road, Pomfret Road and Library Street, and evaluation of safety improvements to allow for the safer movement of vehicles, pedestrians, and bicyclists. The scoping study should take into special consideration safe pedestrian connectivity of the major facilities in this area, including Teago Store and Post Office, Abbott Library, Artistree Arts and Activities Buildings and grounds, Artistree Theater, Suicide Six Ski area and Bicycle Facility, Teago Fire Department, Prosper Valley School, and the residences in this village.

As is seen in Figures 3-8, proposed project upgrade alternatives will impact two general areas: 1) Alternatives 1 and 2 (Figures 4 and 5) are focused on a new bridge and associated disturbances along Pomfret Road and, 2) Alternatives 3A, B, C (Figures 6-8) are focused on changes to Library Street, including the removal of the Pomfret Street bridge, and various potential parking lots either adjacent to the Abbott Memorial Library, or across the street from it next to Pomfret Brook along the west side of Teago General Store. However, the entire Area of Potential Effects was reviewed for this ARA, including the approach to the town along Pomfret Road, and the area west of town along Stage Road..

## The Archaeological Resources Assessment (ARA)

The goal of an ARA (or “review”) is to identify portions of a specific project’s APE that have the potential for containing pre-Contact and/or historic sites. An ARA is to be accomplished through a “background search” and a “field inspection” of the project area. For this study, reference materials were reviewed following established guidelines. Resources examined included the National Register of Historic Places (NRHP) files; the Historic Sites and Structures Survey; and the USGS master archaeological maps that accompany the Vermont Archaeological Inventory (VAI). Relevant town histories and nineteenth-century maps also were consulted. Based on the background research, general contexts were derived for pre-Contact and historic resources in the study area.

## Archaeological Site Potential

There are no known archaeological sites within the limits of the proposed project area. The closest known archaeological site to the project area is historic period site VT-WN-322, which represents the remains of a poured concrete foundation. It is located 1.5

km to the northeast, along Barnard Stage Road at its intersection with the Appalachian Trail. The next closest archaeological site is VT-WN-323, which represents the remains of a stone pile “in the shape of a fireplace”, located 1.9 km to the west.

The proposed project area sits at the confluence of Barnard Brook and Pomfret Brook, and then flows south into the Ottauquechee River, a main tributary of the Connecticut River (Figure 9). As a result, its location is along transportation thoroughfares into the Green Mountains from the Connecticut River Valley and as such, may have been attractive for habitation by pre-Contact Native Americans, and thus it would be unexpected to find pre-Contact Native American sites within the general project area.

In regard to historic period sites, numerous structures are located within the limits of the proposed project on both the 1855 Wallings map (Figure 10) and the historic 1869 Beers Atlas (Figure 11). These structures are all still in use. Three of these structures are listed on the State Register of Historic Places, being the three closest to the intersection of Library Street, Stage Road, and Pomfret Road. The first is the 1905 Abbott Memorial Library building, which is still used as a library, and it located along the west side of Library Street, just north of its intersection with Stage Road. The second is 1860 house and associated barn buildings, which is still occupied and is located on the south side of Stage Road, directly south of its intersection with Library Street. The third is the 1835 “Classic Cottage” house which is still occupied and is on the east side of Pomfret Road, immediately east of its intersection with Stage Road. Of these three state historic structures, the Abbott Memorial Library building was also listed on the National Register of Historic Places in 2015.

**Desk Review**

As part of the desk review, the Vermont Division of Historic Preservation’s (VDHP) 2015 predictive model matrix for identifying pre-Contact Native American archaeological sites is employed for the project area. As stated in the VDHP Guidelines: “The predictive model is intended to identify areas with a high potential for containing significant precontact Native American sites.” A completed matrix for the proposed project is presented in Figure 12. As can be seen, the South Pomfret Village STP BP21(20) Multi-Use Path Project scores 76 on the Predictive Model, due to it being located within 90 m of the Pomfret Brook (12), within 90 m of Barnard Brook (8), within 90 m of the confluence of Pomfret Brook and the Barnard Brook (12), on a major alluvial terrace (32), and along a natural travel corridor (12).

**Site Visit**

A field inspection of the project area was carried out on July 21, 2022 by Charles Knight, Principal Investigator of Crown Consulting Archaeology, LLC. Knight walked the entirety of the project parcel, taking several soil cores where possible, such as in the yard of the Abbott Museum. The vast majority of the proposed project area has been heavily disturbed by various municipal activities. As for Alternatives 1 and 2, focusing on the Pomfret Road Bridge upgrades, the immediate bridge location itself has been

heavily disturbed with its original placement (Figure 13). The northwest, southeast, and southwest quadrants of the bridge contain no intact soils (Figures 14-15). However, the northeast quadrant of the bridge is next to a narrow floodplain and soils within it are intact (Figure 16). As a result, this floodplain on the east side of Pomfret Road, north of the bridge crossing is considered archaeologically sensitive.

Alternatives 3A-C focus on upgrades to Library Street and the construction of a small parking lot, as well as the removal of the Pomfret Street bridge. Three parking lot locations have been proposed; two adjacent to the Abbott Memorial Library (Alternatives 3B and 3C) and one immediately west of the Teago General Store (Alternative 3A). Soils cores taken in the yard of the Abbott Memorial Library identified deep sandy soils, without a strong A Horizon. (Figure 17). Nonetheless, these soils seemed intact. As a result, the two proposed parking lot locations around the Abbott Memorial Library building are considered archaeologically sensitive.

The proposed Alternative 3A location will place the parking lot immediately west of the Pomfret Brook, and west of the Teago General Store where an informal parking lot already exists (Figure 18). The existing riverbank of this proposed parking lot area consists of river rock and boulders, and appears to have been either entirely constructed with river fill, or heavily augmented with it (Figure 19). No soils were seen in its profile and soil cores could not penetrate the surface. It is not considered to be archaeologically sensitive.

The section west from town along Stage Road is built up on a road prism, approximately 1 m above the surrounding land (Figure (20). The prism also extends approximately 1.5 m to either side of the road's edge. On the south side of Stage Road, beyond the road prism however, the landform is archaeologically sensitive, as it represents the floodplain of Barnard Brook. Much of the project's APE along Stage Road has been disturbed by the road prism and various residential structures along it, but there is a large field at the western end of the Stage Road portion of the project APE that is intact and it is this field that is considered archaeologically sensitive.

Finally, the southern approach along Pomfret Rd into South Promfret was inspected, as there may be some road work along its eastern side. Pomfret Rd was cut into the lower slope of Teago Hill, and therefore no intact soils were observed (Figure 21). The west side of the road sits on the fill prism and drops approximately a meter down to the residential lawns of the houses along that side of the road (Figure 22). Considering the fill prism and the road cut, the margins of the Pomfret Road approach from the south is not considered archaeologically sensitive. In sum, two areas of archaeological sensitivity for pre-Contact Native American sites were identified within the general project area (Figure 23).

**Conclusions**

The Village of South Pomfret proposes the South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont. Crown Consulting

Archaeology, LLC conducted an ARA of the proposed project area and identified two areas as archaeologically sensitive for pre-Contact Native American sites within the general project area: a floodplain northeast of the Pomfret Road bridge, and the lawn surrounding the Abbott Memorial Library. The Abbott Memorial Library has been listed on the National and State Registers for Historic Preservation. As a result, its lawn is sensitive for both pre-Contact Native American sites, associated with Pomfret Brook, and historic period sites or deposits associated with the Abbott Library. Also, the large field at the western edge of the Stage Road section of the preojct's APE is sensitive for pre-Contact Native American sites. A Phase I site identification survey within these three sensitive areas is recommended as part of the Section 106 permitting process. However, if Alternatives B and C are not chosen, and no ground disturbance will occur within the lawn of the Abbott Memorial Library, then no additional archaeological work will be required there. Likewise, is all disturbances along Stage Road can be kept within the existing road prism, then no additional archaeological work is recommended in that section. It appears that all alternatives will impact the east side of Pomfret Road north of the Pomfret Brook bridge crossing, and therefore additional archaeological work in that floodplain is recommended for all alternatives.

Thank you for working with us on this project. Please let me know if you have any questions or comments.

Charles Knight, Ph.D.
Principal Investigator

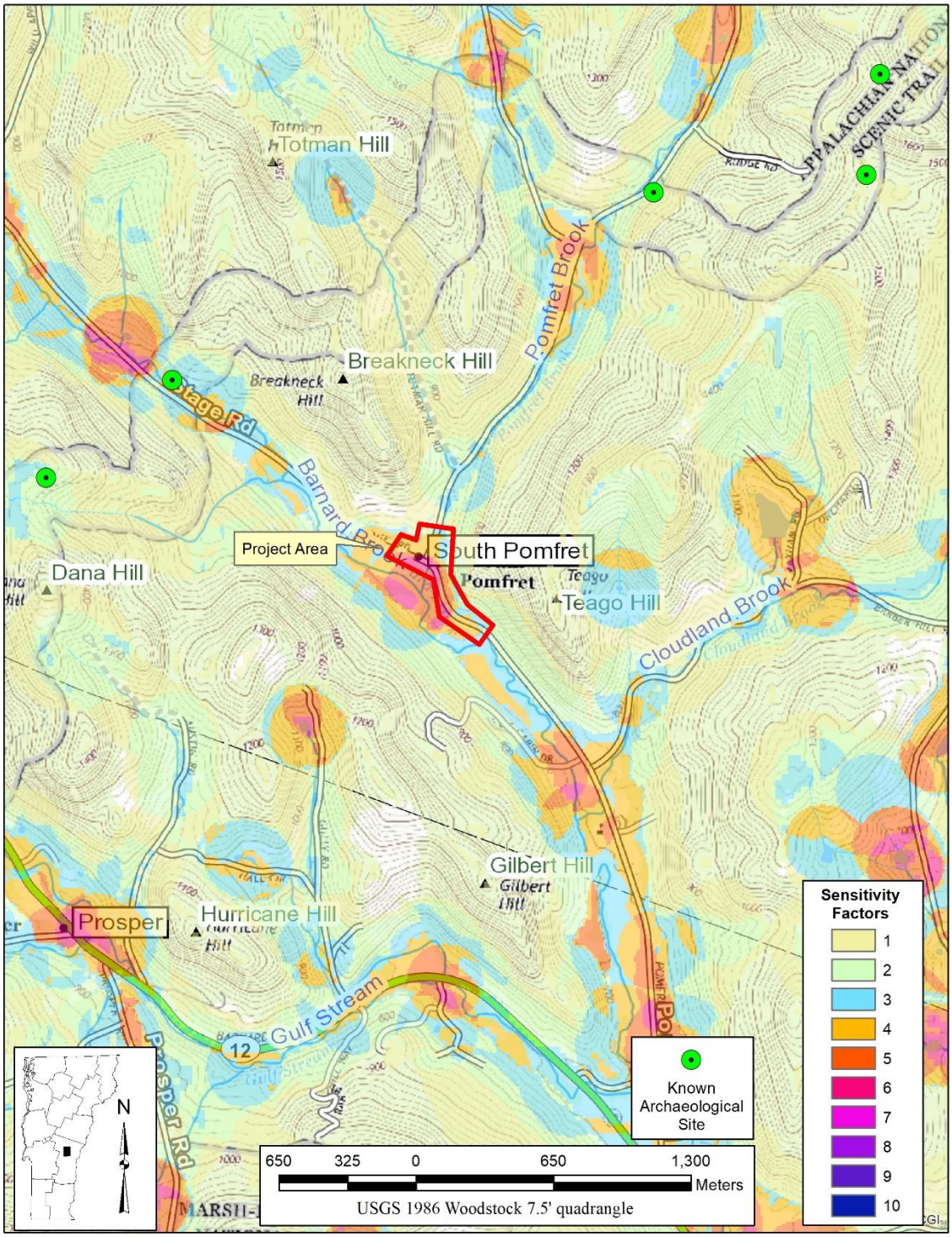



Figure 1. Map showing the location of the South Pomfret Village STP BP21(20) Multi-Use Path Project, in relation to known archaeological sites, for the proposed South Pomfret, Windsor County, Vermont.




Figure 2. Map showing the limits of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

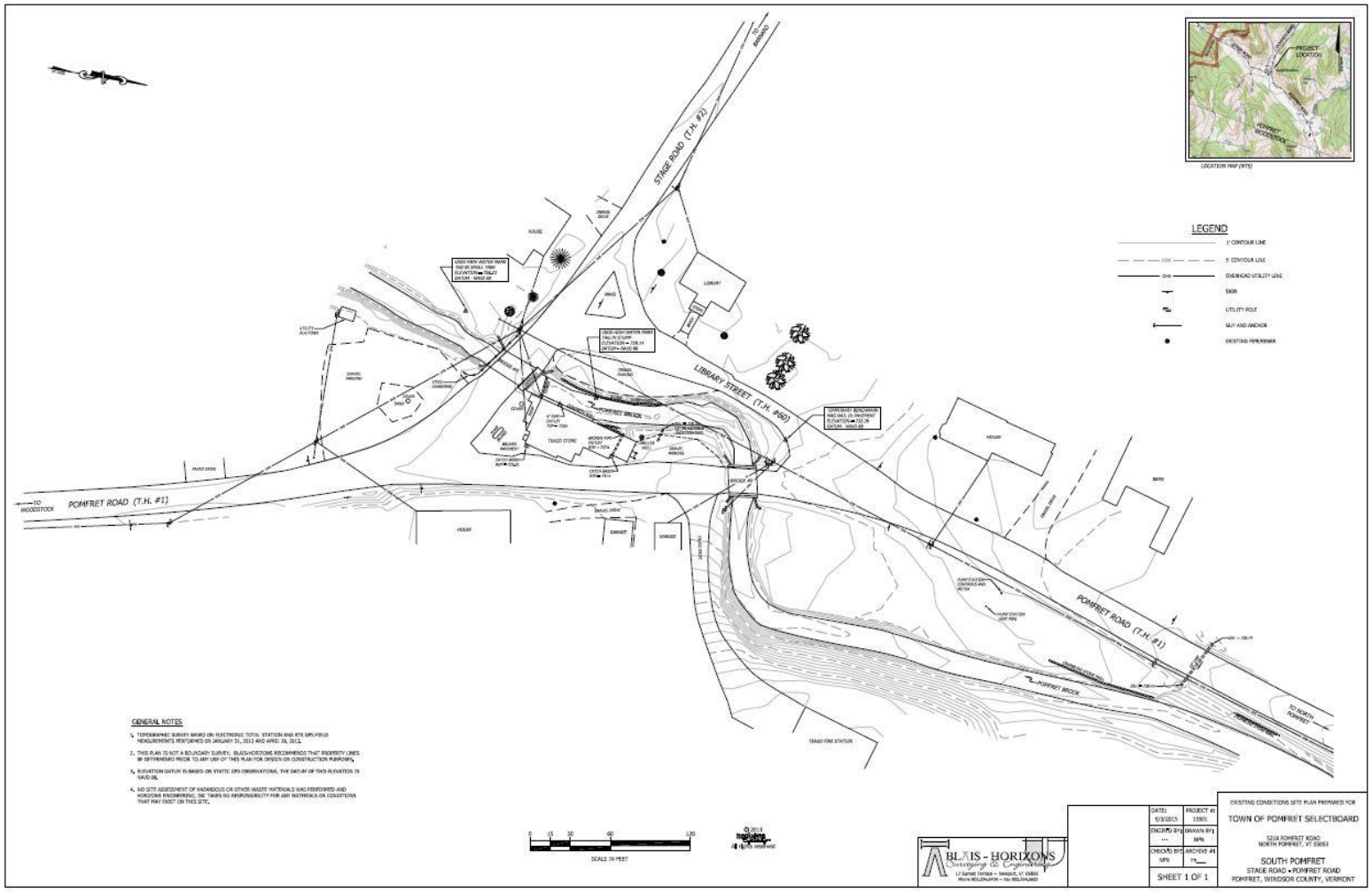



Figure 3. Map showing the existing conditions of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

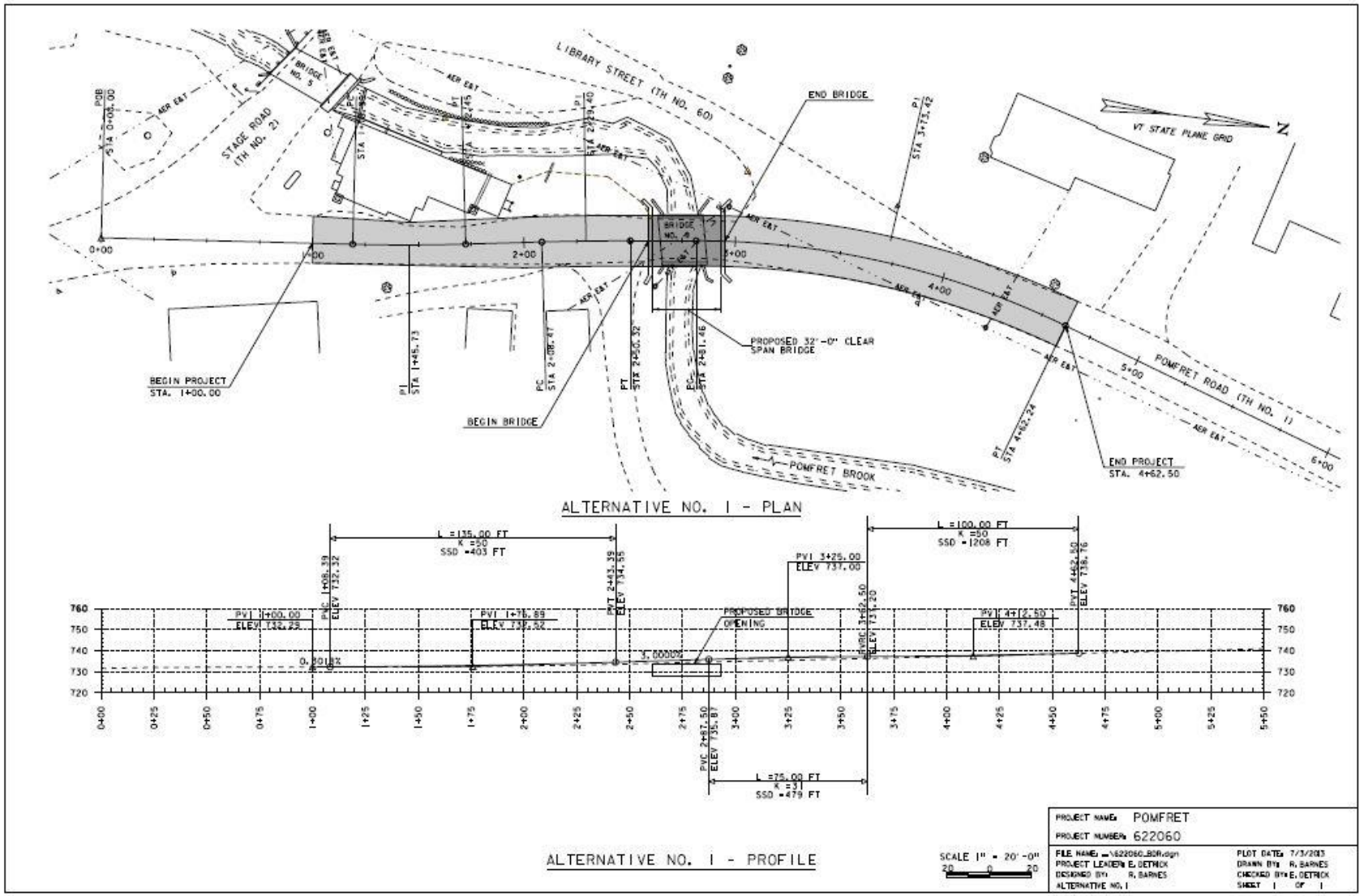



Figure 4. Map of Alternative No. 1 of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

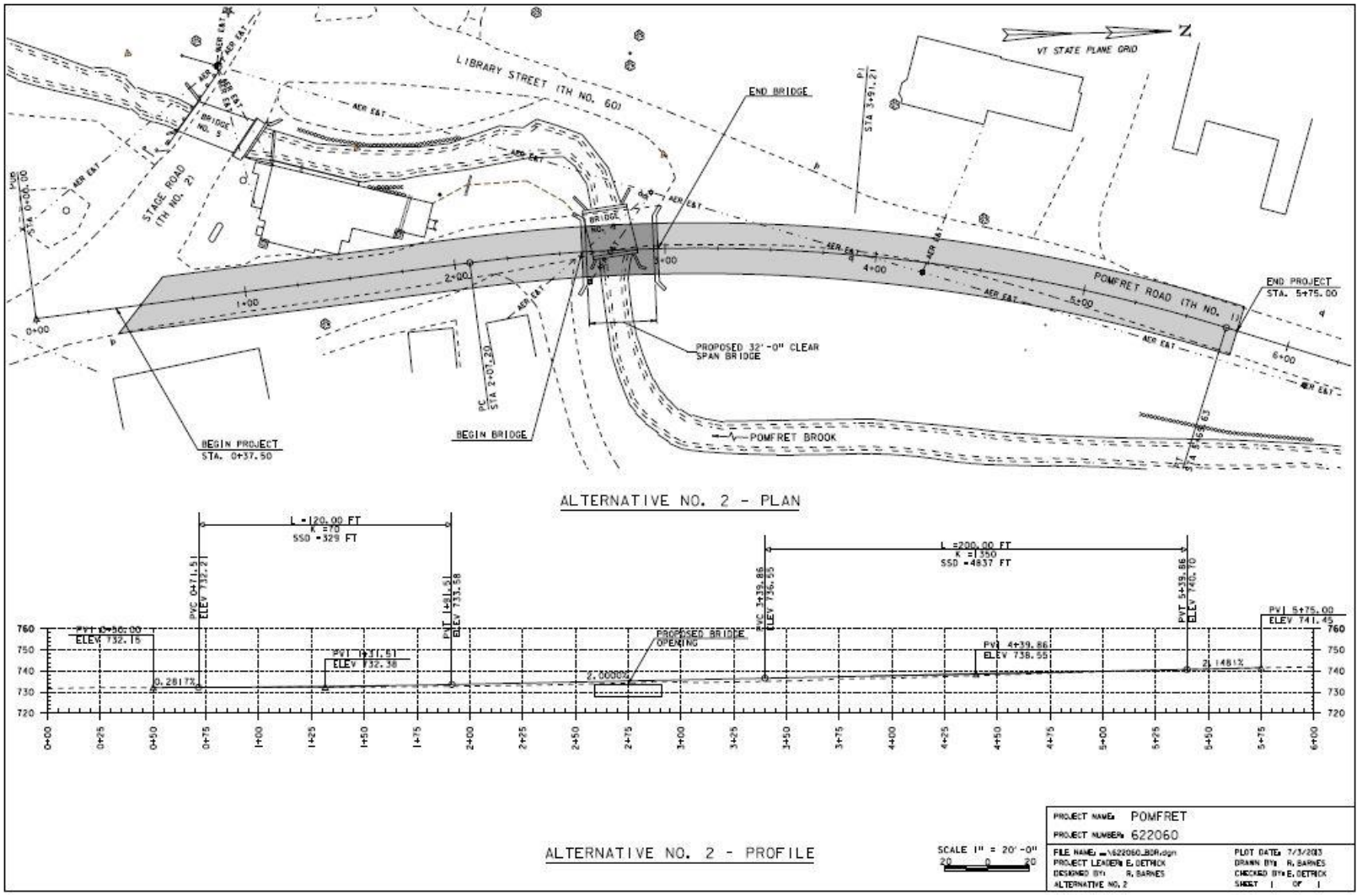



Figure 5. Map of Alternative No. 2 of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

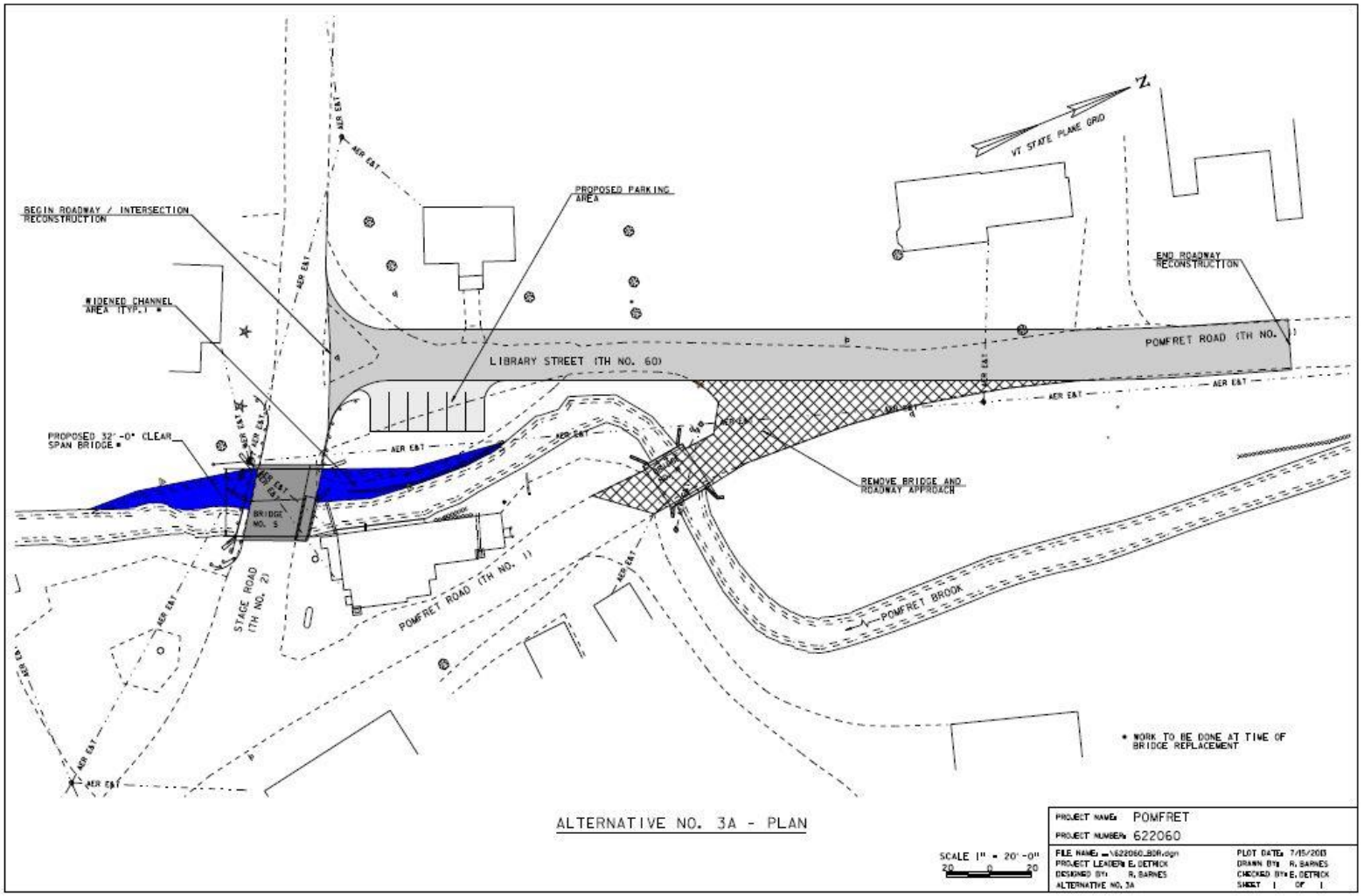



Figure 6. Map of Alternative No. 3A of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

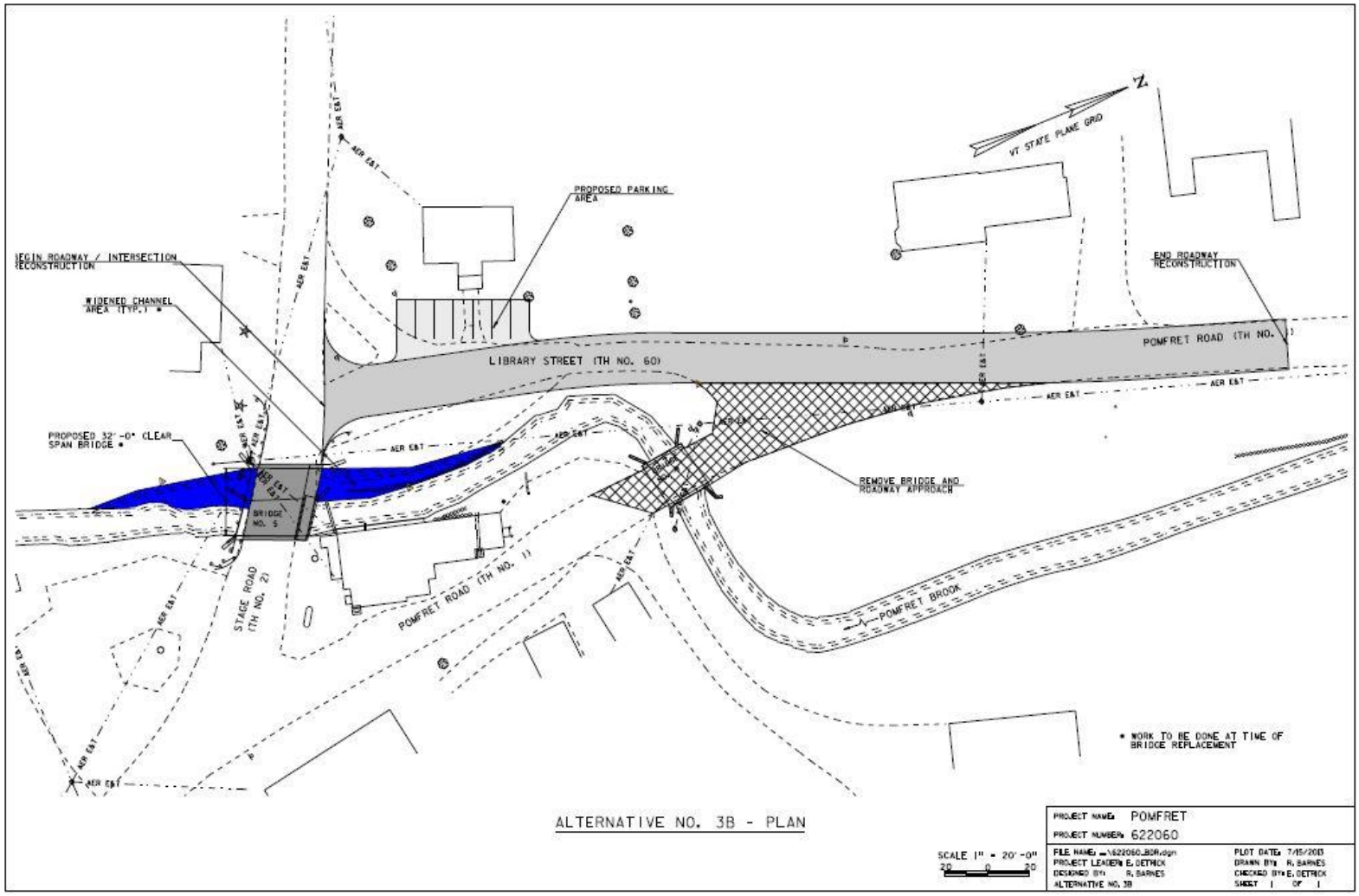



Figure 7. Map of Alternative No. 3B of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

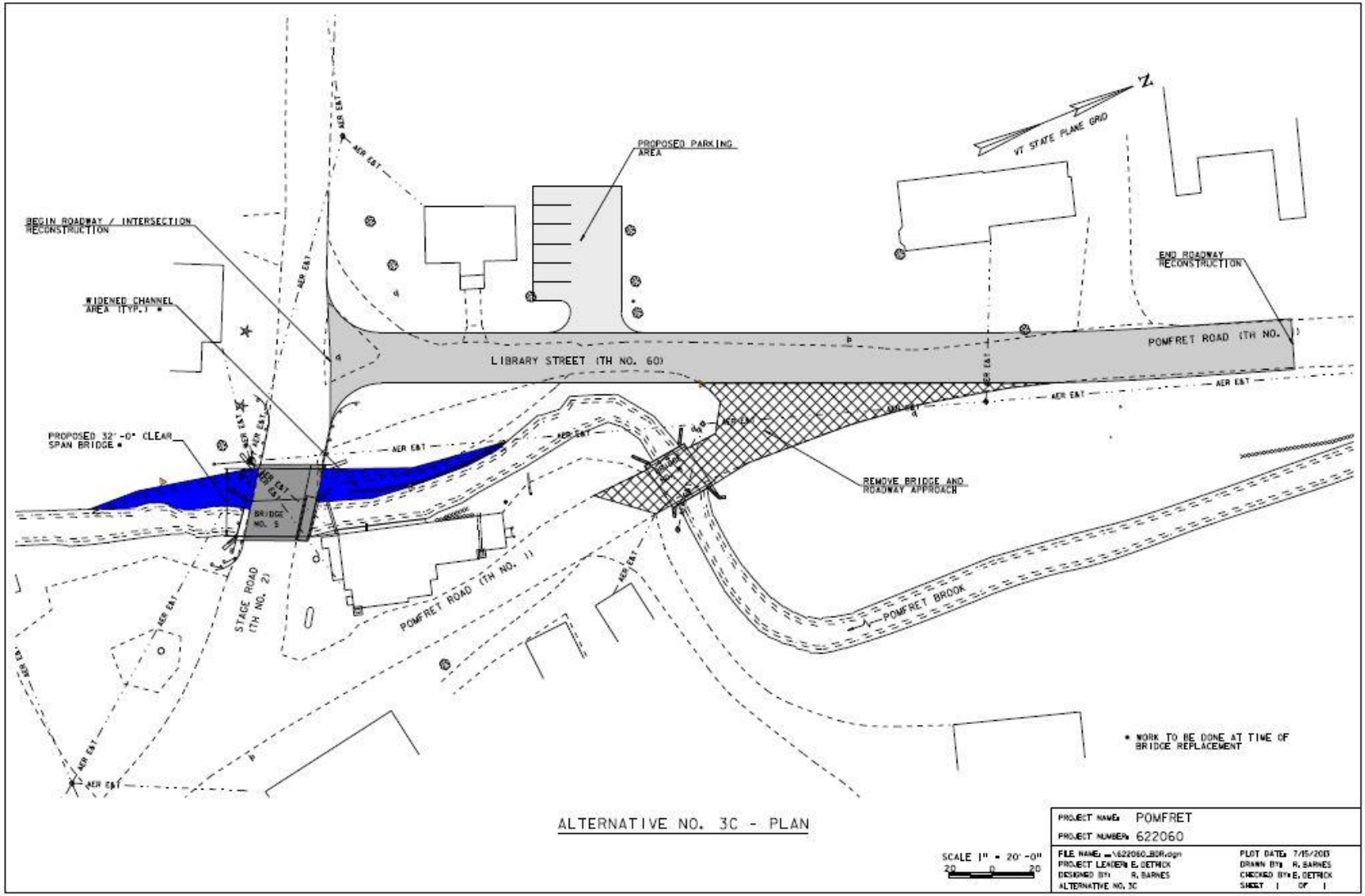



Figure 8. Map of Alternative No. 3C of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

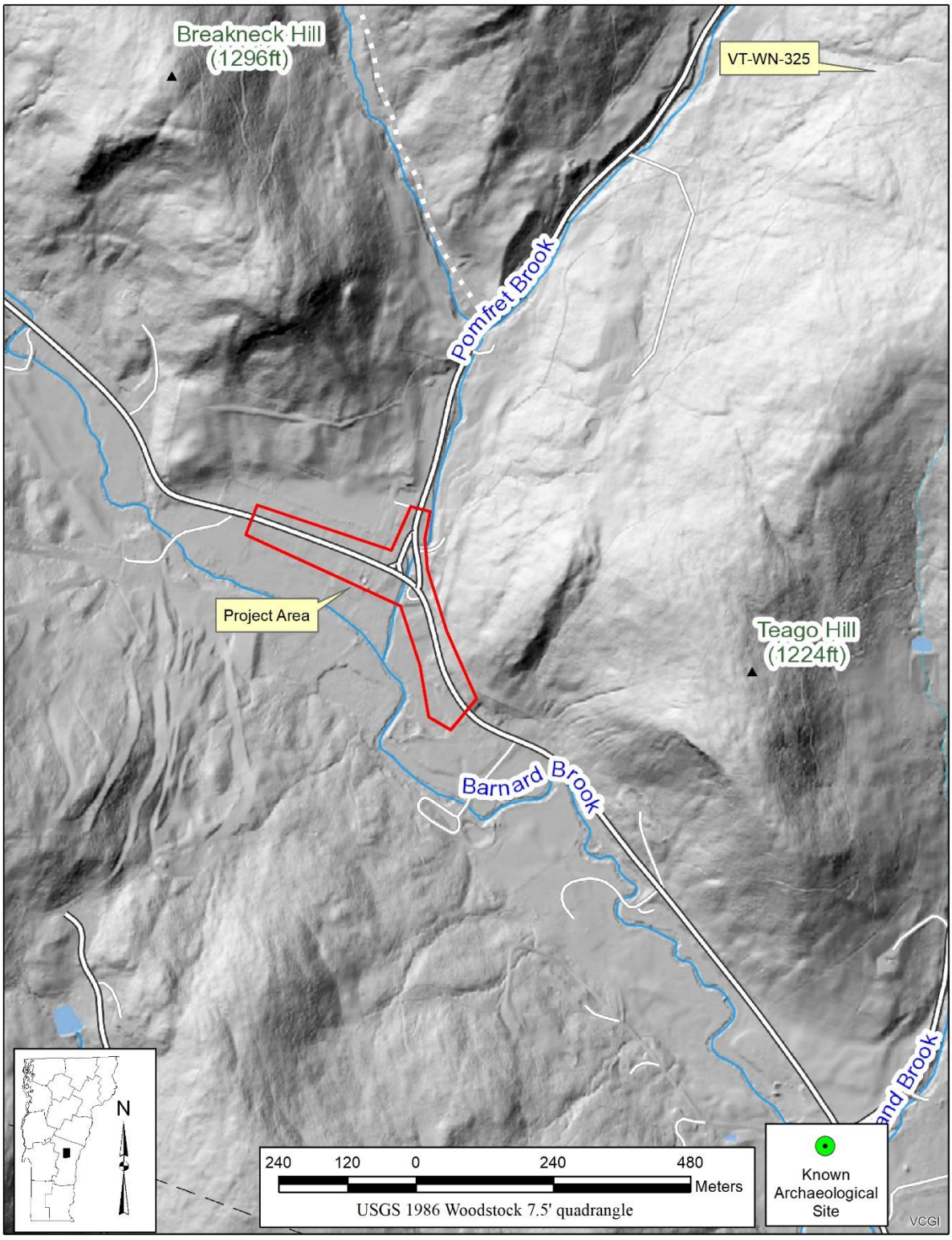



Figure 9. Lidar map showing the microtopography of the Area of Potential Effects of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.




Figure 10. Historic 1855 Wallings map showing the location of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.




Figure 11. Historic 1869 Beer's atlas showing the location of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

VERMONT DIVISION FOR HISTORIC PRESERVATION

## Environmental Predictive Model for Locating Pre-contact Archaeological Sites

Project Name S. Pomfret Multi-Path County Windsor Town South Pomfret
DHP No. Map No. Staff Init. Date 7/25/22

Additional Information

| Environmental Variable | Proximity | Value | Assigned Score |
|---|---|---|---|
| **A. RIVERS and STREAMS (EXISTING or RELICT):** | | | |
| 1) Distance to River or Permanent Stream (measured from top of bank) | 0- 90 m<br>90- 180 m | 12<br>6 | 12 |
| 2) Distance to Intermittent Stream | 0- 90 m<br>90-180 m | 8<br>4 | 8 |
| 3) Confluence of River/River or River/Stream | 0-90 m<br>90 –180 m | 12<br>6 | 12 |
| 4) Confluence of Intermittent Streams | 0 – 90 m<br>90 – 180 m | 8<br>4 | |
| 5) Falls or Rapids | 0 – 90 m<br>90 – 180 m | 8<br>4 | |
| 6) Head of Draw | 0 – 90 m<br>90 – 180 m | 8<br>4 | |
| 7) Major Floodplain/Alluvial Terrace | | 32 | 32 |
| 8) Knoll or swamp island | | 32 | |
| 9) Stable Riverine Island | | 32 | |
| **B. LAKES and PONDS (EXISTING or RELICT):** | | | |
| 10) Distance to Pond or Lake | 0- 90 m<br>90 -180 m | 12<br>6 | |
| 11) Confluence of River or Stream | 0-90 m<br>90 –180 m | 12<br>6 | |
| 12) Lake Cove/Peninsula/Head of Bay | | 12 | |
| **C. WETLANDS:** | | | |
| 13) Distance to Wetland (wetland > one acre in size) | 0- 90 m<br>90 -180 m | 12<br>6 | |
| 14) Knoll or swamp island | | 32 | |
| **D. VALLEY EDGE and GLACIAL LAND FORMS:** | | | |
| 15) High elevated landform such as Knoll Top/Ridge Crest/ Promontory | | 12 | |
| 16) Valley edge features such as Kame/Outwash Terrace** | | 12 | |

| | | | |
|---|---|---|---|
| 17) Marine/Lake Delta Complex** | | 12 | |
| 18) Champlain Sea or Glacial Lake Shore Line** | | 32 | |
| **E. OTHER ENVIRONMENTAL FACTORS:** | | | |
| 19) Caves /Rockshelters | | 32 | |
| 20) ☑ Natural Travel Corridor<br>☐ Sole or important access to another drainage<br>☐ Drainage divide | | 12 | 12 |
| 21) Existing or Relict Spring | 0 – 90 m<br>90 – 180 m | 8<br>4 | |
| 22) Potential or Apparent Prehistoric Quarry for stone procurement | 0 – 180 m | 32 | |
| 23) ) Special Environmental or Natural Area, such as Milton acquifer, mountain top, etc. (these may be historic or prehistoric sacred or traditional site locations and prehistoric site types as well) | | 32 | |
| **F. OTHER HIGH SENSITIVITY FACTORS:** | | | |
| 24) High Likelihood of Burials | | 32 | |
| 25) High Recorded Site Density | | 32 | |
| 26) High likelihood of containing significant site based on recorded or archival data or oral tradition | | 32 | |
| **G. NEGATIVE FACTORS:** | | | |
| 27) Excessive Slope (>15%) or Steep Erosional Slope (>20) | | - 32 | |
| 28) Previously disturbed land as evaluated by a qualified archeological professional or engineer based on coring, earlier as-built plans, or obvious surface evidence (such as a gravel pit) | | - 32 | |
| **** refer to 1970 Surficial Geological Map of Vermont** | | | |
| | | **Total Score:** | 76 |
| **Other Comments :** | | | |
| **0- 31 = Archeologically Non- Sensitive**<br>**32+ = Archeologically Sensitive** | | | |

April 8, 2015

Figure 12. Completed VDHP predictive model matrix of the APE for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.



a



b

Figure 13. Photos looking northwest (a) and north (b) from the northern side of the Pomfret Road bridge, for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.



a




b

Figure 14. Photos looking southeast along the western side of the bridge (a), and west across the bridge, with the Abbott Library in the background (b), for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.



a



b

Figure 15. Photos looking southeast immediately south of the bridge (a), and north immediately north of the bridge (b), along the east side of Pomfret Road for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.




a



b

Figure 16. Photos looking southeast at the Pomfret Road and Library Street intersection (a), and north along Pomfret Road from that intersection, with the archaeologically sensitive floodplain on the right (b), for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.



a



b

Figure 17. Photos looking south (a), and northwest (b) at the Abbott Memorial Library and its lawn for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.



a



b

Figure 18. Photos looking north (a), and south (b), at the location of the Alternative 3A parking lot area adjacent to Pomfret Brook for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.



a



b

Figure 19. Photos looking northwest at the Alternative 3A parking area profile (a), and down the parking lot's slope at the Pomfret Brook showing its rocky fill (b) for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.




Figure 20. Google Street View image looking east along Stage Road within the APE of the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.



a



b

Figure 21. Photos looking east across the Stage and Pomfret Roads intersection (with the historic 1835 “Classic Cottage” in the background) (a), and looking southwest at the same intersection (b) for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.




Figure 22. Photos looking southeast down the east side of Pomfret Road along its approach to South Pomfret from the south, for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

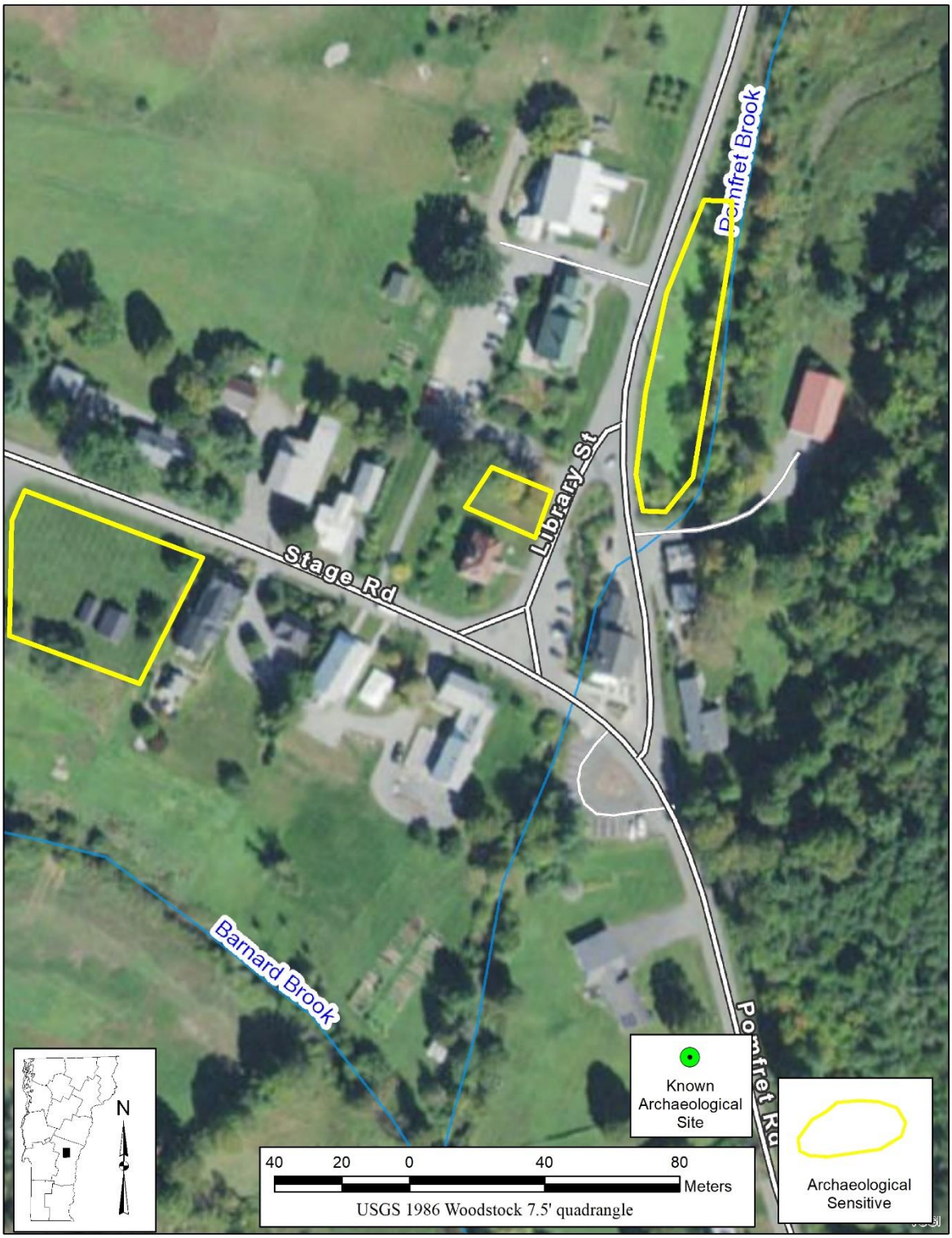



Figure 23. Map showing the two areas of archaeological sensitivity for the proposed South Pomfret Village STP BP21(20) Multi-Use Path Project, South Pomfret, Windsor County, Vermont.

# Appendix E

## Historic Resources Identification

# STP BP 21(20) South Pomfret Village

## Pomfret, VT

PREPARED FOR

Town of Pomfret
5218 Pomfret Road
North Pomfret, VT 05053

PREPARED BY

40 IDX Drive, Building 100, Suite 200
South Burlington, VT 05403
802-497-6100

September 9, 2022

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# 1

# Introduction

The Town of Pomfret ("Town") has secured support from the Vermont Agency of Transportation ("VTrans") Municipal Assistance Bureau ("MAB") to conduct a scoping study to identify opportunities to develop better connections between the destinations in South Pomfret Village for a project known as STP BP 21(20) South Pomfret Village ("Project"). The Town seeks to improve safety for vehicles, pedestrians, and bicyclists. South Pomfret Village's many destinations include Teago General Store and Post Office, Abbott Library, Artistree Arts and Activities Buildings and grounds, Artistree Theatre, Suicide Six (Saskenda Six) Ski area and Bicycle Facility, Teago Fire Department, Prosper Valley School, and the residences in this village. Many of these destinations are located on both sides of the street (e.g., Artistree's Red Barn, Gallery, and parking on the east side of Pomfret Road and Artistree's Grange Theatre on the west side or Teago General Store located on the east side and its parking on the west), making even single destination crossings more frequent.

On behalf of the Town, VHB has prepared this Historic Resources Identification Report as part of Task H in the Scoping Study for South Pomfret. Because an alternative for the project has not yet been selected, the purpose of this report is to provide an assessment of potential resources, recommendations for effects to resources, and anticipated permit requirements.

This report will serve as support for the Project planning efforts, and acts as the first step in identifying resources protected under Section 106 of the National Historic Preservation Act ("Section 106" and "NHPA", 16 U.S.C. 470) and Section 4(f) of the Department of Transportation Act ["Section 4(f)"]. The report includes a discussion of methodology, a discussion of the Study Area, a brief historic context, brief descriptions of properties, categorization of each property (as ineligible, likely eligible, potentially historic, or historic), indication as to whether the properties have been surveyed or listed in the Vermont Historic

Sites and Structures Survey (“VHSSS), the Vermont State Register of Historic Places (“State Register”), or the National Register of Historic Places (“National Register”), historic photographs of each property, and identification of known Section 4(f) resources.

# 2

# Methodology

The work required to complete this report was undertaken by Matthew Shoen, a Preservation Planner with VHB. Prior to fieldwork, VHB reviewed existing survey and register files available through the Vermont Division for Historic Preservation's ("VDHP") Online Resource Center.[1] The reports and files reviewed for this report include the Vermont Historic Sites & Structures Survey ("VHSSS"), the National Register listings, and the Pomfret town files. The purpose of reviewing this literature was to identify previously inventoried historic resources within the Project Area and to establish which sites had not been surveyed within the Project Area. In addition, historic maps such as United States Geological Survey ("USGS") Topographic Maps, newspapers, the 1856 Hosea Doton map, and the 1869 F.W. Beers & Co. Map, available via various online repositories, were reviewed in order to determine which buildings were over 50 years old and therefore potentially historic.[2]

Following the literature and historic map review, VHB visited the Study Area to survey and photograph historic resources. Fieldwork included a site walkover and photography for each property located within the Study Area. After conducting research and fieldwork, each of the properties within the Project Area were evaluated for their historic integrity and eligibility for listing on the National Register.

[1] www.orc.vermont.gov

[2] www.historicaerials.com; www.old-maps.com

# 3

# Area of Potential Effect and Study Area

As the Project scope has not yet been defined, this report does not include an Area of Potential Effect ("APE"), which is defined by 36 CFR 800.16(d), revised August 5, 2004, as: *"the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if such properties exist. The area of potential effects is influenced by the scale and undertaking and may be different for different kinds of effects caused by the undertaking."*

Determining the APE consists of a consideration of the nature and full extent of the project, including, but not limited to, the project description, the proposed project's use, all locations of ground disturbance, project setting, existing infrastructure, all locations from which the project may be visible, and all locations where the project may change traffic patterns. The APE consists of all direct and reasonably foreseeable indirect effects based on the nature of the project.

Instead of establishing the APE at this time, VHB used a Study Area to to conduct the survey of resources. The Study Area includes Stage Road from the Saskenda Six Base Lodge to the intersection of Pomfret Road and Library Street, and Pomfret Road from the Artistree Barn at 2097 Pomfret Road to the house at 1806 Pomfret Road. The Study Area in this report will assist in the development of the APE, once the Project scope has been defined. See **Appendix A, Maps, Map 1.**

# 4

# Above-Ground Historic Resource Identification

Section 106 requires all federal agencies to consider the effects of federal undertakings on historic properties and to afford the Advisory Council on Historic Preservation ("ACHP") an opportunity to comment on such projects prior to the expenditure of any federal funds. A federal undertaking is defined as a project, activity, or program either funded, permitted, licensed, or approved by a federal agency. Undertakings may take place either on or off federally controlled property and include new and continuing projects, activities, or programs and any of their elements, whether or not they have been previously considered under Section 106.

A historic property is any property that is listed in or eligible for listing in the National Register. These properties can be buildings, structures, sites, objects, or districts and include above ground and below ground (*i.e.*, archaeological) resources. If a property has not been previously determined eligible or ineligible for the National Register, then, as part of the Section 106 process, it should be evaluated by the federal agency in consultation with the State Historic Preservation Officer ("SHPO") in order to determine if it meets eligibility.

Based on the Methodology of Chapter 2 and the Study Area discussed in Chapter 3, and the understanding of Section 106 regulations, VHB surveyed 25 properties along Stage Road, Library Street, and Pomfret Road. The E-911 addresses and Map ID numbers in **Table 1** correspond to **Appendix A – Maps, Map 1**. Photograph numbers in **Table 1** correspond to **Appendix B – Photographs.**

## 4.1 Historic Overview

The Village of South Pomfret is located in the southwest corner of the town of Pomfret, Windsor County, Vermont. Chartered in 1761 by Benning Wentworth, the governor of New Hampshire, Pomfret was named for Pomfret, Connecticut, the settlement from which many of the early settlers had come. The earliest settlement of the Town of Pomfret began in 1770, and the town's population peaked in 1830 with 1867 residents.The majority of these residents engaged in subsistence farming or raising Merino sheep; however, South Pomfret also had a thriving lumber industry. With three lumber mills operating in the village during the 1830s South Pomfret was known as Slab City. Starting in the 1840s, many Vermonters began to leave the state, heading west to newly opened territories in Western New York, Ohio, and Michigan. This westward push would affect Vermont for much of its history as the opportunities for free or inexpensive land in the American west drew young people away from family farms, resulting in the slow but steady contraction of rural towns such as Pomfret. Pomfret lost population in each census from 1840 to 1960, with the town's population dipping to 600 in the 1960 census.

Starting in 1970, however, the town began to regain population as Vermont's status as a rural escape from the busy world of Northeastern cities grew more attractive. Additionally, the growth of suburban lifestyles and automobile centricity enabled more people to see rural Vermont as a viable place to live and raise a family. Pomfret's growth was also aided after 1934 by the development of the Suicide Six (now known as the Saskenda Six) ski resort. One of the earliest ski resorts in Vermont, Suicide Six opened in 1934 and has since become a popular New England skiing destination.

## 4.2 Previous Surveys, State Register Listings, National Register Listings

In the VDHP ORC State Register file for Pomfret, there are three State Register listed properties, one of which is also National Register listed. VHB matched the current property addresses to the map listings of both the VHSSS and SR, where possible. All prior VHSSS, SR, and NR listings are indicated in **Table 1. See Appendix A, Maps, Map 2**.

## 4.3 Surveyed Properties Summary

This section details the properties identified by Map ID numbers and addresses, providing the following for each property, in table format:

- Map ID # (see Map 1);
- E-911 Address;
- Photograph #;
- Previous VHSSS/SR/NR listing (if applicable);
- Date of construction and brief architectural description;
- Discussion of historic integrity; and

- Recommendation of eligibility for the National Register. Properties shaded green are recommended as eligible.

Of the surveyed properties, 13 are recommended as eligible for listing in the National Register and are noted in green in **Table 1** below. Twelve (12) of these properties are recommended as eligible as part of a potential historic district which would encompass the historic village core of South Pomfret.

**Table 1: Surveyed Properties in Study Area**

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 1 | 247 Stage Road/ Saskenda Six Maintenance Building | 1 | c. 1978 | N/A | 1-story, 5x2 bays, wood framed maintenance building with a sawtooth roof with asphalt shingles, wood siding, and a concrete foundation. Façade and east elevation have roll up garage doors. 1-story, gabled wing on the west side. 2-bay pole barn built in 2013 sits east of the building. The maintenance building serves the Saskenda Six ski area, although it sits on a separate parcel from the ski area itself. The Saskenda Six ski resort opened in 1934 as Suicide Six (the name was changed to Saskenda Six in 2022). It is thought to be one of the oldest ski areas in the United States, with the first rop tow for skiing in the U.S. installed for its first season. In 1961, the resort was purchased by Laurence Rockefeller. In 1978, the maintenance building and the adjacent base lodge (on a separate parcel) were built. | Ineligible due to age |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 2 | 172 Stage Road | 2 | c. 1955 | N/A | 1 story 5x3 bay wood frame residence. Rises off concrete foundation, clad in vinyl siding, covered by eaves front gabled asphalt shingle roof that flares at the base. Primary entry with wood panel door, sidelights, beneath small porch. Mix of fixed pane, 1/1, 6/6, and 8/8 double hung vinyl windows throughout. Center bay brick chimney rises through center of the house. Two car garage attached to house's east elevation. Garage is front gabled 3x3 bay, concrete foundation, vinyl siding, asphalt shingle roof with automatic rollup garage doors on its east elevation. | Ineligible due to alterations such as the enclosure of a porch on the façade and changes to materials. The house no longer retains integrity to convey its midcentury period of construction. |
| 3 | 139 Stage Road | 3 | c. 1915 | N/A | 1.5 stories 3x5 bay, wood frame, former schoolhouse. Rises off a concrete foundation is clad in clapboard siding and covered by a front gabled standing seam metal roof with cornice returns. Primary entry sheltered by one bay front porch with a gabled standing seam metal roof and closed pediment. Wood 6/6 double hung windows on the façade and east elevation. Continuous band of tall windows on west elevation. | Eligible under Criterion A in Education and Criterion C in Architecture as an intact example of a typical one room schoolhouse that was updated in the early 20th century with features such as banks of windows to allow greater light into the classroom space. Such changes were part of the state's effort to improve education, particularly in small rural districts.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 4 | 104 Stage Road | 4 | c. 1820, 2009 | N/A | 1.5 story, 5x2 bay, wood frame Classic Cottage. Building rises off a stone foundation with clapboard siding, and an eaves front standing seam metal roof with a central chimney splitting the ridgeline. Center bay entry with solid wood door flanked by shutters. Windows are 6/1 replacements with shutters.<br><br>Large 2009 addition springs off the east elevation. Addition has clapboard siding and a standing seam metal roof | Eligible for Listing under Criterion C in Architecture as a relatively intact Classic Cottage residence.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |
| 5 | 93 Stage Road | 5 | c. 1820 /<br>c. 1880 | | 1.5 story 5x2 bay, wood frame, Classic Cottage residence. Building rises off a stone foundation, has clapboard siding and an eaves front standing seam metal roof. Center bay entrance accessed via a covered porch with a gabled standing seam metal roof. 6/6 double hung wood windows and corners defined by vertical corner boards which lead to a fascia. Gable end returns on side elevations. Bay window on west elevation. Multiple gabled additions springing from rear of house.<br><br>Two modern gable roofed barns east of the house. Barns have cross braced double doors with transom lights and vertical wood siding. | Eligible for listing in the NR under Criterion C as a relatively intact Classic Cottage style residence with later nineteenth century additions.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 6 | 84 Stage Road | 6 | c. 1840 | N/A | 2 story, 3x4 bay, wood frame, former commercial building. Rises off a stone foundation clad in clapboard siding and covered by a front gabled standing seam metal roof with gable end returns. Center bay entry with simple entablature and flanking 6/6 double hung wood windows. Large wood medallion in the gable end. Large shed roof addition off the east elevation with a metal door, and wood hayloft door. | Eligible for listing under Criterion C in Architecture.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |
| 7 | 72 Stage Road | 7 | c. 1840 / c. 1890 | N/A | 1.5 story 5x4 bay wood frame residence. Originally a classic cottage but modified with Queen Anne details. House rises off a stone foundation, is clad in clapboard siding, and covered by a shed standing seam metal roof. Center bay entry sheltered by full width porch that wraps the façade and east elevation. Porch has solid baluster, turned posts, bay window and 2/2 double hung wood windows. Gable dormer sits over the porch and the roof ridgeline is split by a brick chimney. Garage located east of residence. Building is 3x5 bays, former barn with roll up garage door, center gable hayloft, asphalt shingle siding, and a standing seam metal roof. | Eligible for listing under Criterion C in Architecture.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 8 | 65 Stage Road/ The Grange Theatre | 8 | 1904, 1908 (moved to present location) | N/A | 2.5 story, 3x4 bay wood frame Colonial Revival grange hall. Stone foundation, clapboard siding, front gabled standing seam metal roof with gable end returns. Full façade porch that wraps the east elevation. Porch has Doric columns, low deck. Center bay entry 6/6 double hung wood windows | Eligible for listing under Criterion C as an example of a vernacular Colonial Revival Grange Hall .<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |
| 9 | 43 Stage Road/ Bertram House | 9,10 | c. 1860 | VHSSS / SR #1413-15 (listed 9-21-77) | 2 story, 5x3 bay, wood frame residence. Stone foundation, clapboard siding, eaves front standing seam metal roof. Center bay entry with sidelights, entablature, 2/2 wood windows, corner pilasters with fascia, gable end returns on side elevations. Multiple additions springing off east elevation | Eligible for listing in the NR under Criterion C as an example of Greek Revival architecture.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |
| 10 | 15 Library Street, Abbott Memorial Library | 11,12 | 1905 | VHSSS / SR #1413-14 (listed 9-21-77) | Mixed Colonial Revival, Queen Anne style public library. 1 story on raised basement, 3x3 bays. Exposed stone foundation with rubblestone facing, brick first floor, and slate hipped roof. Center bay entry beneath a pedimented entry porch accessed by stone staircase. The porch roof is supported by stone Doric columns. Roof has hipped dormers, terra cotta tile caps, brick chimney | Listed on NR Individually under Criterion A in Education and Criterion C in Architecture.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 11 / 11A | 2095-2097 Pomfret Road | 13,14 | 2095 Pomfret Road: c. 1860<br><br>2097 Pomfret Road: c. 1860, c. 2018 | N/A | 11: 2095 Pomfret Road is a 2 story 5x3 bay wood frame Greek Revival residence. Stone foundation, clapboard siding, eaves front standing seam metal roof. Center bay entry with sidelights beneath hipped standing seam metal porch with square posts. 2/2 double hung wood windows. South elevation has stacked bay windows. Corner pilasters with fascia. Gable end returns, brick chimney. Large eaves front addition springs from north elevation. Addition is 4x2 bays, clapboard siding, standing seam metal roof, gabled wall dormer, corner pilasters.<br><br>11A: 2097 Pomfret Road is a 3.5 story barn. Building has clapboard siding, front gabled standing seam metal roof, mix of 6/6 double hung and 6 light fixed pane windows. Building has multiple gabled and shed roof additions springing from its south, east, and north elevations. | 2095 Pomfret Road is Eligible for listing in the NR under Criterion C as an example of Greek Revival architecture with later Queen Anne alterations.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District.<br><br>2097 Pomfret Road is ineligible due to alterations such as the construction of non historic windows and multiple shed and gable roofed additions off the main barn mass. Because of these changes the barn no longer conveys the appearance of a nineteenth century agricultural building. |
| 12 | 2026 Pomfret Road/ Teago Fire Department Building | N/A | c. 2000 | N/A | Building not visible from the road. Front gabled two bay garage with standing seam metal roof vinyl siding and concrete block walls. | Ineligible due to age |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 13 | 2035 Pomfret Road/ Teago General Store | 15,16 | c. 1890 | N/A | General store that sits on a triangular plot at junction of Library Street, Stage Road, and Pomfret Road. 2.5 story 3x6 bay wood frame Queen Anne style general store. Building rises off concrete foundation, clad in clapboard and covered by a front gabled asphalt shingle roof. Front entry in rightmost façade bay covered by shed roof standing seam metal porch with bracketed square posts. Windows mix of 1/1 double hung and 2/1 double hung replacements. | Eligible for listing in the NR under Criterion C as an example of a Vermont General Store and of Queen Anne style architecture.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |
| 14 | 2020 Pomfret Road/ Webster House | 17,18 | c. 1845 | VHSSS 1413-16 | 1.5 story 8x2 bay wood frame Greek Revival residence. Building rises off stone foundation, clad in clapboard covered by eaves front standing seam metal roof. Entry sheltered by small porch, wood door with sidelights 2/1 replacement windows throughout.<br><br>North of house are two outbuildings the first is a c. 1880 barn with clapboard siding, a front gabled standing seam metal roof, and a sliding wood door. The second is a c. 1950 concrete block garage with 2/2 windows and wood out swinging doors. | Eligible for listing in the NR under Criterion C as an example of Greek Revival architecture.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |
| 15 | 1995 Pomfret Road | N/A | c. 1995 | N/A | Gravel parking lot with small ornamental plantings. | Ineligible due to age |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 16 | 1975 Pomfret Road | 19 | c. 1980 | N/A | 1.5 story 5x3 bay wood frame residence. Concrete foundation, vinyl siding, eaves front asphalt shingle roof. Symmetrical façade with center bay entry sheltered beneath small porch. 1/1 vinyl windows and a large picture window on façade. Additions spring off north elevation. Additions consist of hyphen that connect to two bay front gabled garage with a shed roof extension. | Ineligible for listing due to age. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 17 | 1933 Pomfret Road | 20 | c. 1850 | N/A | 1.5 story, 4x3 bay wood frame residence. Brick foundation, vinyl siding, eaves front standing seam metal roof. Entry sheltered by enclosed vestibule with gabled roof. 1/1 vinyl windows on first floor, roof has gabled dormer with 6/6 windows and a brick chimney. Building has multiple additions. North elevation has enclosed shed roof porch supported by wood posts. South elevation has small shed roof residential unit attached. A garage had been built beneath the house. | Ineligible due to alterations such as replacement windows, replacement siding, and the construction of the secondary residence off the south elevation as well as the addition fo the garage beneath the house. These alreations have diminished the building's integrity of design, workmanship, and feeling.<br><br>Additionally, the building would not be in the boundary of the potential South Pomfret Historic District because it is too far removed from the concentration of historic buildings in the village center. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 18 | 1917 Pomfret Road | 21 | c. 1835 | N/A | 1.5 story 5x2 bay wood frame Classic Cottage with an attached barn off its south elevation. Building rises off a stone foundation, is clad in clapboard siding and covered by an eaves front standing seam metal roof. Symmetrical façade with center bay entry flanked by 2/2 double hung windows. Chimney on south elevation. One bay hyphen connects residence to a 3x1 bay garage with a center bay entry wide plank siding, and a standing seam metal roof. | Individually eligible for listing under Criterion C as a good example of a Classic Cottage with an attached barn. |
| 19 | 1869 Pomfret Road | 22 | c. 1950 | N/A | 1.5 story 3x4 bay wood frame residence. Concrete foundation, vinyl siding, cross gabled asphalt shingle roof. Façade not clearly visible from right of way. Entry sheltered by small porch. Brick chimneys on north elevation. Freestanding two bay garage south of house. Garage has widely pitched asphalt shingle gabled roof two bays with automatic garage doors. | Ineligible due to alterations such as the construction of the building's cross gabled eastern wing. Additionally, the building has replacement windows and siding. Together these alterations diminish the building's integrity of design, workmanship, materials, and feeling. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 20 | 1857 Pomfret Road | 23 | c. 1930 | N/A | 2 story 3x2 bay wood frame Dutch Colonial Revival Style residence. Concrete foundation, vinyl siding, gambrel asphalt shingle roof. Center bay entry sheltered by porch with low deck, square posts, front gabled roof. Shed roof dormers on façade and rear elevation 6/6 double hung windows and brick chimney on north elevation. Two bay wood frame garage south of house. Garage is 1.5 story, front gabled, standing seam metal roof, automatic garage doors. | Ineligible for the NR as it lacks outstanding individual historic or architectural significance.<br><br>It would not be in the boundary of the potential South Pomfret Historic District because it is too far removed from the concentration of historic buildings in the village center. |
| 21 | 1854 Pomfret Road | 24 | c. 1845 | N/A | 1.5 story, 3x2 bay wood frame modified Classic Cottage. Stone foundation, clapboard siding, eaves front standing seam metal roof with full width shed roof dormer. Center bay entry set in enclosed vestibule. Wood door with three light sidelights. Single or paired 1/1 vinyl windows. Brick chimney off north elevation. Saltbox roof addition springs from north elevation | Ineligible due to alterations such as the construction of the shed dormer, enclosed front vestibule, and northern shed roof ring. These alterations have diminished the building's integrity of design, feeling, and association. |
| 22 | 1827 Pomfret Road | 25 | c.1920 | N/A | 1.5 story side gabled ell residence. 2x3 bays, concrete foundation, wood shingle siding, standing seam metal roof. 1/1 double hung windows. Single 12/12 wood window in the building's gable. | Ineligible due to alterations such as the construction of the ell addition and other small additions off the north side elevation. These changes have diminished the building's integrity of design, materials, feeling, and association. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 23 | 1806 Pomfret Road | 26,27 | c. 1930 | N/A | 1.5 story 5x3 bay wood frame residence. Concrete foundation, cedar shake siding, eaves front standing seam metal roof. Primary entry in northernmost bay and sheltered beneath shed roof porch. First floor windows 6/1 double hung, 2/1 double hung in the upper half story. Roof has shed roof dormer and brick chimney. Small gabled vestibule off the south side elevation.<br><br>Near the road there is a secondary residence. It is 1.5 stories, 2x3 bays with an attached garage. Cedar shake siding, standing seam metal gabled roof. 6/6 vinyl windows with 6 light transoms. Shed roof dormers. | Ineligible for listing in the NR as it lacks outstanding individual historic or architectural significance.<br><br>It would not be in the boundary of the potential South Pomfret Historic District because it is too far removed from the concentration of historic buildings in the village center. |
| 24 | Pomfret Road Bridge (Bridge 9) | 28 | 1926 | N/A | Approximately 22-foot bridge which carries Pomfret Road across Pomfret Brook. The bridge consists of a cast in place concrete deck and concrete parapets supported on cast in place concrete abutments. It has a clear span of 18'-0", with a clear height of approximately 4.5'. Bridge 9 has a superstructure depth that is approximately 25" from bottom of deck to top of road including the bridge slab and paving. | Eligible for the NR as an example of a largely unaltered, 1920s concrete bridge.<br><br>Property would be a contributing resource to the potential South Pomfret Historic District. |

| Map ID | E-911 Address | Photo No. | Date of Construction | VHSSS / SR/NR | Brief Description | National Register Eligibility Recommendation & Reasoning |
|---|---|---|---|---|---|---|
| 25 | Stage Road Bridge (Bridge 5) | 29 | 1939 | N/A | Approximately 22-foot bridge which carries Stage Road across Pomfret Brook. The bridge consists of a cast in place concrete deck supported on cast in place concrete abutments. There is a cast in place concrete parapet and sidewalk on the north side, and fascia mounted bridge rail on the south side. It has a clear span of approximately 17'- 3", with a clear height of approximately 5'-6'. A metal marker denotes the bridge's age and name. | Ineligible for listing in the NR due to alteration. |

## 4.4 Potential South Pomfret Historic District

Within the Study Area there is the potential for an NR-eligible historic district encompassing 14 properties and two bridges within the village center of South Pomfret. Twelve (12) of these properties would be contributing resources within the historic district (see **Table 2** below). The district is centered around the crossroads where Stage Road, Pomfret Road, and Library Street meet and extends westward to 172 Stage Road. The village properties consist primarily of residential buildings in addition to the former South Pomfret School, the Teago General Store, Abbott Memorial Library, and the Grange Hall Theatre. Architecturally, many of the residential buildings are Classic Cottages, some of which have been modified with later Queen Anne elements. Examples of the Greek Revival, Queen Anne, and Colonial Revival styles are visible within the potential district. Given this, the South Pomfret Village Historic District is recommended eligible under Criterion C in Architecture as an excellent collection of buildings dating from the early nineteenth century to the early twentieth century. While many of the buildings are vernacular examples of their style, the district nonetheless retains high style buildings such as the Abbott Memorial Library and the Bertram House. The district's nonresidential buildings are all also critical resources which help articulate the development of this small village center.

**Table 2: South Pomfret Historic District Resources**

| Property | Contributing / Non-Contributing Resources |
|---|---|
| 139 Stage Road | Contributing |
| 104 Stage Road | Contributing |
| 93 Stage Road | Contributing |
| 84 Stage Road | Contributing |
| 72 Stage Road | Contributing |
| 65 Stage Road | Contributing |
| 43 Stage Road | Contributing |
| 15 Library Street | Contributing |
| 2095-2097 Pomfret Road | 2095 Contributing, 2097 Non-Contributing |
| 2035 Pomfret Road | Contributing |
| 2020 Pomfret Road | Contributing |
| 1995 Pomfret Road | Non-Contributing |
| Pomfret Road Bridge | Contributing |
| Stage Road Bridge | Non-Contributing |

# 5

# Section 4(f) Resources

Section 4(f) protects significant publicly owned public parks, recreation areas, and wildlife and waterfowl refuges as well as significant historic sites, whether they are publicly or privately owned. Section 4(f) is codified as 49 U.S.C. 303 and 23 U.S.C. 138. Section 4(f) and applies to all agencies within the United States Department of Transportation, including FHWA. FHWA regulations 23 C.F.R 774 implement the law.

For the purposes of this Historic Resources Identification Report, the Section 4(f) resources in the Study Area include those historic resources eligible for or listed in the National Register of Historic Places, which are described in Chapter 4 of this report and shaded in green in Table 1.

There are no recreation resources and/or wildlife or waterfowl refuges in the Study Area.

A Section 4(f) evaluation will be required for any adverse effects to (or "use" of) historic sites or parks or for any easements/acquisitions of historic sites or parks. A Section 4(f) de minimis determination may be used for historic sites and recreation resources when the "use" of the resource will not cause an adverse effect to the resource.

# 6

# Recommendations

Of the 25 properties surveyed in the Study Area, 13 are recommended eligible for listing in the National Register and would therefore be considered 4(f) resources. Note that 12 of these properties are recommended eligible as contributing resources to a potential National Register-eligible South Pomfret Historic District. With this information and the understanding of the Project, the following considerations/recommendations are provided:

- Constructing a sidewalk has the potential to require land (outside the ROW) from some of these resources and/or bring the sidewalk close to the historic properties, particularly in the area surrounding the village center. These properties may include 43 Stage Road, 15 Library Street, 2020 Pomfret Road, 2022 Pomfret Road, and 2035 Pomfret Road as they are all very close to the road. This does not necessarily equate to an adverse effect to the historic resource.
- Bridge 9 / Pomfret Road Bridge is a historic bridge. The current width of the bridge limits the ability to add a sidewalk. However, widening the bridge would likely adversely impact the historic integrity of the bridge.
- Other areas of the Study Area are less of a concern as properties as set further back from the ROW.
- As the Teago General Store (2035 Pomfret Road) already has parking around its north, south, and west sides, developing clearer parking and more defined pedestrian crossings/walkways would benefit all, whether motorists or pedestrians.

- VHB designers and engineers will coordinate with the VHB Preservation Planner in order to discuss potential design and impacts to the historic resources.
- This project will require review under Section 106 of the National Historic Preservation Act and will likely require an evaluation/determination under Section 4(f) of the Department of Transportation Act.

# 7

# References and Resources

Hongoltz-Hetling, Matthew. "After 30 Years, Teago General Store Changes Hands." *Valley News,* January 15, 2018, https://www.vnews.com/Gundersen-sells-pomfret-teago-store-14837794.

Pomfret Planning Commission, 2016. *Pomfret Town Plan.* Pomfret: Vermont. https://pomfretvt.us/files/5614/7223/6261/Pomfret_Town_Plan_FINAL_081916.pdf (accessed September 8, 2022).

Vermont Center for Geographic Information. 1962 aerial imagery. https://vcgi.vermont.gov/data-release/1962-aerial-imagery-now-available-statewide-non-georeferenced (accessed August 24, 2022).

Vermont Division for Historic Preservation. 1977. Pomfret State Register of Historic Places. Montpelier: Vermont Division for Historic Preservation.

# Appendices

# Appendix A: Maps

## Historic Resources Study Area and Surveyed Properties

STP BP 21(20) South Pomfret Village | South Pomfret, Vermont

**DRAFT** *September 09, 2022*




Study Area (VHB)

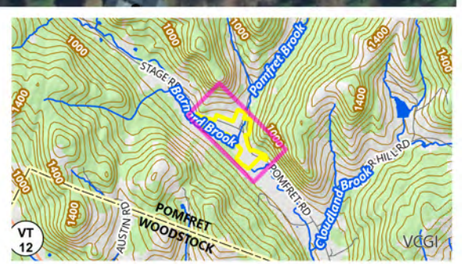
Eligible Surveyed Property (VHB)

Ineligible Surveyed Property (VHB)

Potential Historic District Boundary (VHB)

VHD Stream (ANR)

Parcel Boundary (VCGI)




*Sources: Background imagery by VCGI (Collected in 2016); ANR (Vermont Agency of Natural Resources - 2019); VHB - 2022*

Path: \\vhb.com\gis\proj\SBurlington\58786.00 Pomfret Village\Project\Historic Resources\PomfretVillage_HistoricResources.aprx (User: ACoplin, Date: 9/9/2022)

# Appendix B: Photographs




Photograph 1: 247 Stage Road Map ID 1.



Photograph 2: 172 Stage Road Map ID 2.



Photograph 3: 139 Stage Road Map ID 3.



Photograph 4: 104 Stage Road Map ID 4.



Photograph 5: 93 Stage Road Map ID 5.



Photograph 6: 84 Stage Road Map ID 6.



Photograph 7: 72 Stage Road Map ID 7.




Photograph 8: 65 Stage Road Map ID 8.



Photograph 9: 43 Stage Road Map ID 9.



Photograph 10: 43 Stage Road Map ID 9.



Photograph 11: 15 Library Street Map ID 10.



Photograph 12: 15 Library Street Map ID 10.



Photograph 13: 2095 Pomfret Road Map ID 11.




Photograph 14: 2097 Pomfret Road Map ID 11A.




Photograph 15: 2035 Pomfret Road Map ID 13.




Photograph 16: 2035 Pomfret Road Map ID 13.




Photograph 17: 2020 Pomfret Road Map ID 14.



Photograph 18: 2020 Pomfret Road Map ID 14.



Photograph 19: 1975 Pomfret Road Map ID 16.



Photograph 20: 1933 Pomfret Road Map ID 17.



Photograph 21: 1917 Pomfret Road Map ID 18.



Photograph 22: 1869 Pomfret Road Map ID 19.



Photograph 23: 1857 Pomfret Road Map ID 20.



Photograph 24: 1854 Pomfret Road Map ID 21.



Photograph 25: 1827 Pomfret Road Map ID 22.



Photograph 26: 1806 Pomfret Road Map ID 23.



Photograph 27: 1806 Pomfret Road Map ID 23.



Photograph 28: Pomfret Road Bridge Map ID 24.




Photograph 29: Stage Road Bridge Map ID 25.

# Appendix C: Historic Maps and Photos

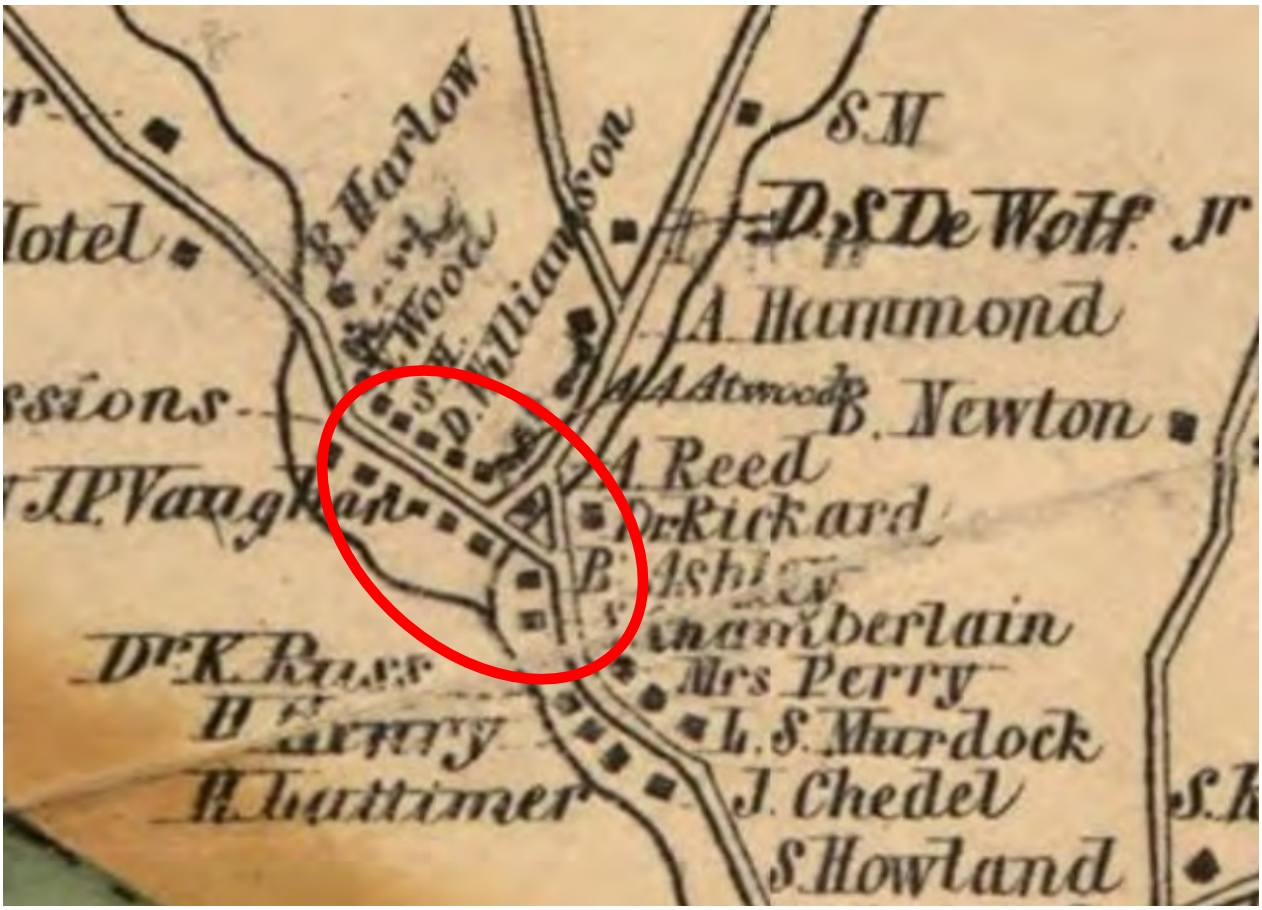



Figure 1: 1856 Hosea Doton map showing South Pomfret. The Study Area is highlighted with a red circle. Doton, Hosea. *Map of Windsor County, Vermont.* Pomfret, Vt.: Hosea Doton 1856 Map. https://www.loc.gov/item/2012586223/.

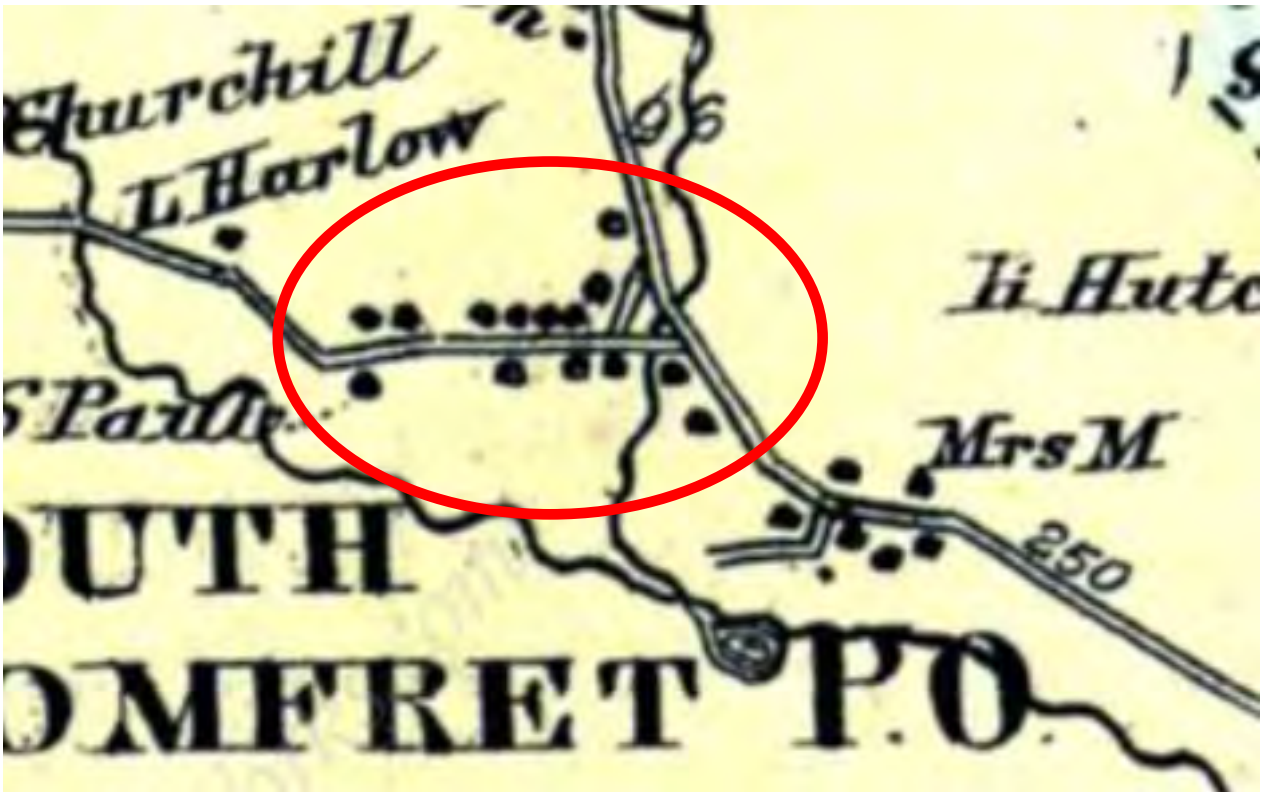



Figure 2: F.W. Beers Map from 1869 showing South Pomfret and the Study Area which is highlighted with a red circle. F.W. Beers, *Windsor County 1869,* F.W. Beers Company, 1869, Map. http://www.historicmapworks.com/Map/US/10722/Pomfret/.




Figure 3: Historic photo of the Abbott Memorial Library from c. 1910.




Figure 4: Photo of the Teago General Store from 1970. The Abbott Memorial Library is visible in the background.

# Appendix F

## Public Outreach Materials

SOUTH POMFRET VILLAGE
# SCOPING STUDY

# Local Concerns Meeting



**Please join us for the first public meeting of the South Pomfret Village Scoping Study. Come share your concerns with the Village Center area and your ideas for improving connectivity, mobility, and safety for all users along Pomfret Road, Stage Road, and Library Street.**

Thursday, September 15th, 2022

7:00 pm
Please join us at **6:30 pm** for a site walk prior to the meeting

Artistree Hayloft Performance Space
2095 Pomfret Road, South Pomfret, VT 05067

For comments or questions please contact
Elisabeth Sundberg at esundberg@vhb.com



# South Pomfret Village Scoping Study



## Local Concerns Meeting

**September 15th, 2022**
**7 PM**



# Project Team Introductions

- Jonathan Harrington, Municipal Project Manager
- Jenn Conley, PE, PTOE | VHB Project Manager
- Karen Sentoff | Technical Lead
- Rose O'Brien | Public Outreach

# Agenda

- Introductions
- Project Purpose
- Review of Scope & Schedule
- Past Projects
- Existing Conditions Overview
- Discussion of Opportunities & Constraints
- General Questions and/or Comments
- Next Steps

# Draft Project Purpose

The purpose of the **South Pomfret Village Scoping Study** is to identify opportunities to improve connectivity throughout the Village center and evaluate design alternatives that will improve safety and mobility for non-motorized users while maintaining the Village aesthetic.

# Scope and Schedule

| | |
|---|---|
| **Project Kickoff Meeting** | May 2022 |
| **Base Mapping/Existing Conditions** | In Progress |
| **Resource Constraints & Permitting Assessment** | In Progress |
| **Local Concerns Meeting** | ***Today*** |
| **Develop Conceptual Alternatives** | September- November 2022 |
| **Alternatives Presentation Meeting** | November 2022 |
| **Draft Scoping Report** | December 2022 |
| **Final Public Meeting** | January 2023 |
| **Final Scoping Report** | February 2023 |

# Study Area

- Intersection of Stage Road, Pomfret Road, and Library Street
- Project Boundaries:
  - Saskadena Six Ski Resort
  - Artistree Arts Community Center
  - 1806 Pomfret Road



# Past Planning Studies and Projects



**Pomfret Town Plan**

**Adopted August 17, 2016**

The Pomfret Town Plan was prepared by the Pomfret Planning Commission with assistance from the Two Rivers-Ottauquechee Regional Commission; funded, in part, by a Municipal Planning Grant from the Vermont Agency of Commerce and Community Development.

**Pomfret Planning Commission**

- Transportation Goals:
  - Promote and maintain a transportation system that is safe, efficient and complements the other goals and planning principles of this Plan.
  - Minimize transportation energy consumption.
  - Maintain the historic, scenic, and rural quality of roads and trails.
- Some Transportation Objectives
  - Ensure that future development does not endanger, and enhances, when possible, the public investment in the Town and regional transportation systems, including highway, bridges, public transit and trails.
  - Promote modes of transportation other than simply single-occupancy vehicles.

# Local Projects

Teago General Store

Artistree

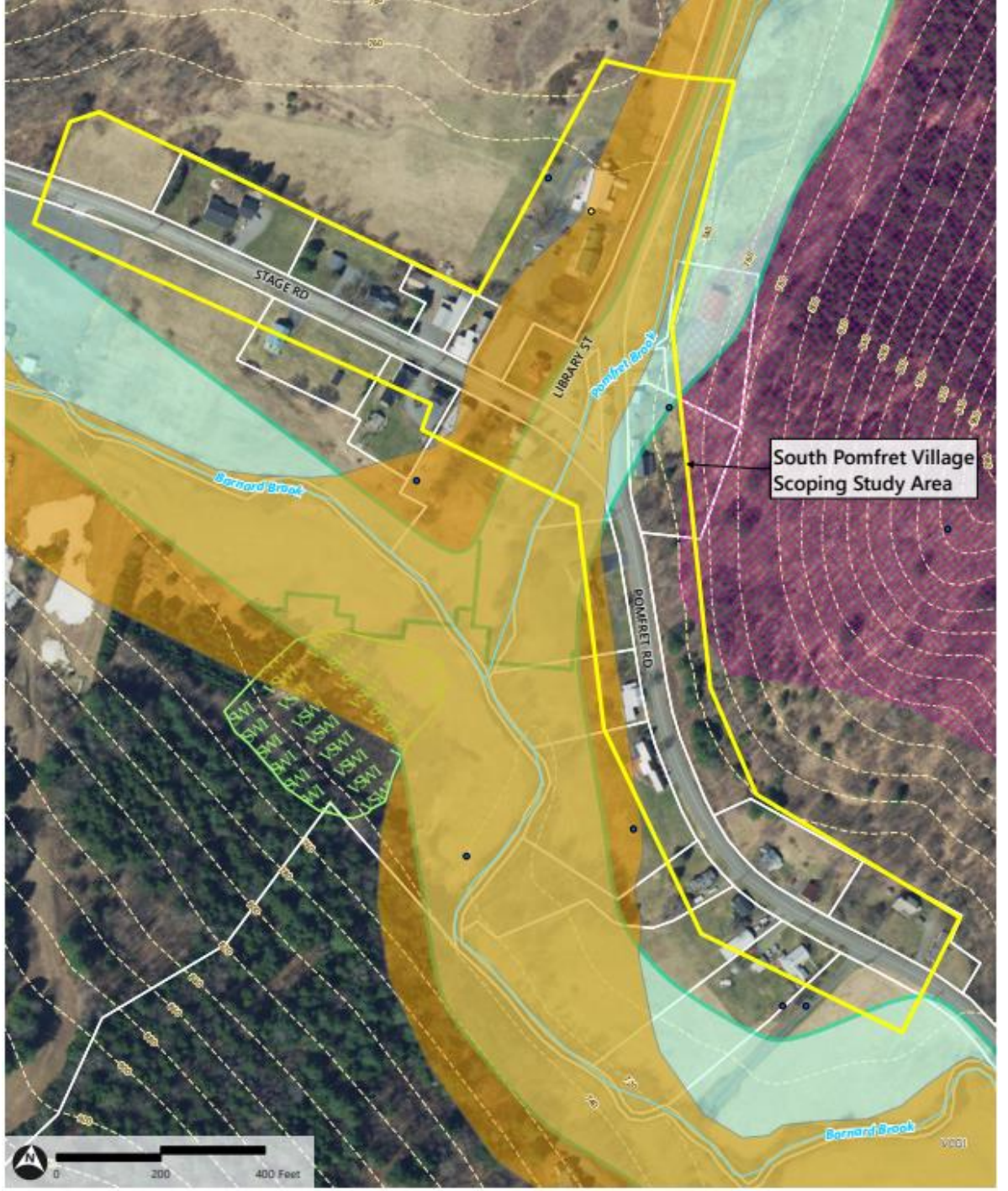
Library Street at the intersection with Stage Road Improvements








# Existing Conditions: Environmental




- Scoping Study Area (VHB)
- Public Well (ANR)
- Private Well (ANR)
- VHD Stream (VCGI)

Flood Hazard Areas (FEMA)

- Zone A (1-percent annual chance floodplains without elevations)
- VSWI Wetland (ANR)
- River Corridor (ANR)
- Deer Wintering Area (ANR)
- Parcel Boundary (VCGI)
- County Boundary (VCGI)
- Town Boundary (VCGI)
- 20 ft. Contours (VCGI)

# Existing Conditions – Historical Resources

- Potential Historic Resources
  - There were 24 properties and two bridges surveyed throughout the study area to identify those eligible for listing in the National Register
  - There are 13 properties including bridge 9 recommended eligible for listing in the National Register
- Section 4(f) Resources
  - Abbott Memorial Library
- What to expect:
  - Review under Section 106 of the National Historic Preservation Act
  - Potential evaluation/determination under Section 4(f) of the Department of Transportation Act



# Existing Conditions – Historical Resources



# Existing Conditions – Archeological Resources

- Potential Archeological Resources
  - Three Areas of Potential Archeological Sensitivity



# Existing Conditions: Crash Data

- Study Area Crash Data (2016-2021)
  - 3 Total Crashes in Study Area
  - 2 single vehicle crashes
  - 1 head on collision
  - 0 Injuries or Fatalities



# Existing Conditions – Traffic Volumes

- Stage Road between Library/ Pomfret Road
  - AADT: 715 vehicles (2015)
- Library Road just North of Stage Road
  - AADT: 239 vehicles (2015)
- Significant increases since that time associated with Artistree and Teago, but still low volume



# Bridge Condition

- In a study by DuBois & King it was determined that both bridges are hydraulically unsound.
  - Pomfret Road Bridge (Bridge 9)
    - Eligible for historic recognition
    - Constructed in 1926
  - Stage Road Bridge (Bridge 5)
    - Constructed in 1939
- Current scoping is reviewing and re-evaluating the implications





# Existing Conditions – Bicycle & Pedestrian Infrastructure



Only marked pedestrian crossing in South Pomfret

# Study Area

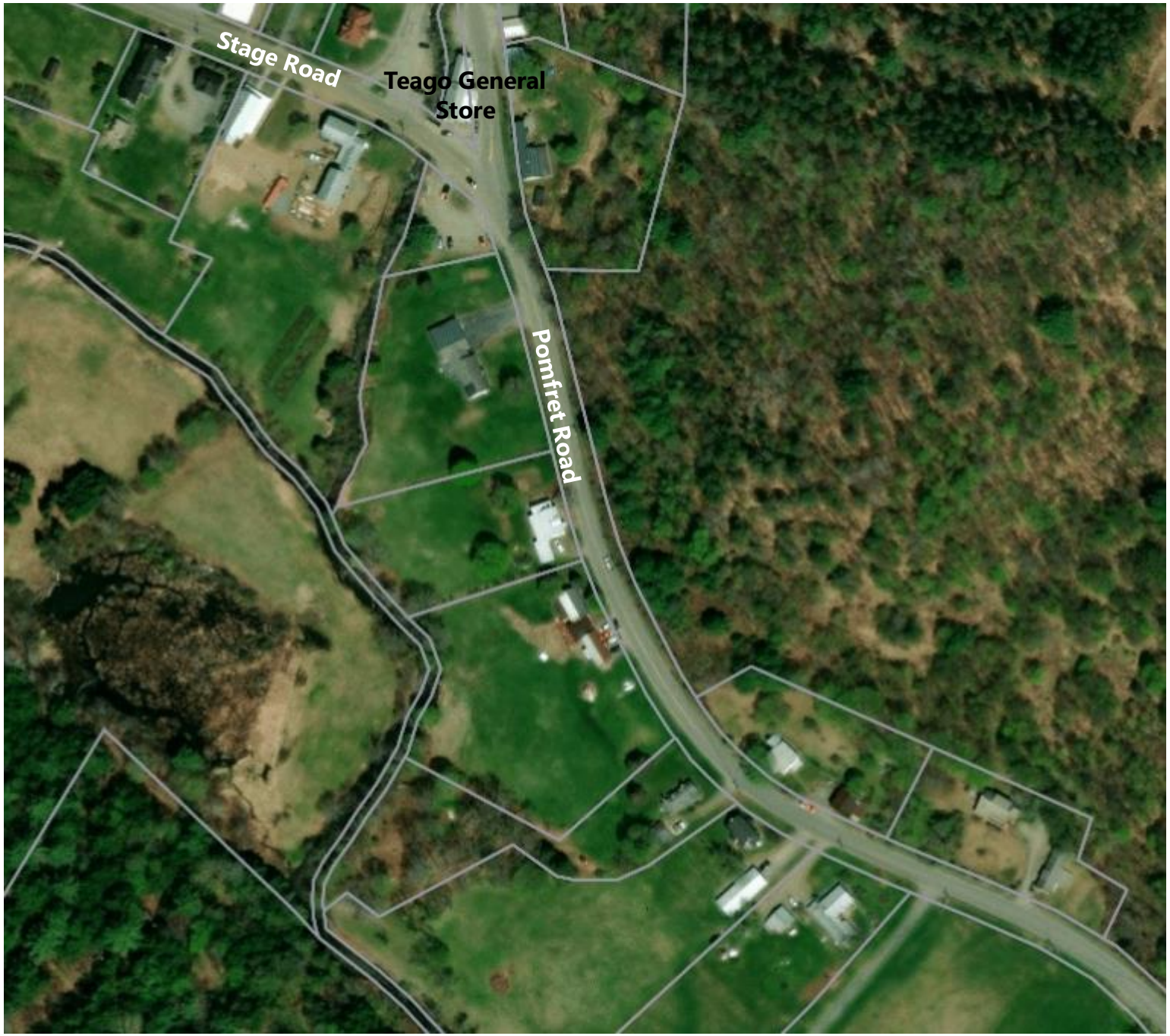

1 Abbott Memorial Library
2 Teago General Store
3 Artistree Community Center
4 Fire Station
5 Saskadena Six Ski Resort
2097 POMFRET RD
2026 POMFRET RD
2095 POMFRET RD
2022 POMFRET RD
LIBRARY ST
2035 POMFRET RD
2020 POMFRET RD
84 STAGE RD
72 STAGE RD
15 LIBRARY ST
1995 POMFRET RD
104 STAGE RD
POMFRET RD
1806 POMFRET RD
43 STAGE RD
65 STAGE RD
1975 POMFRET RD
1854 POMFRET RD
172 STAGE RD
93 STAGE RD
Pomfret Brook
1933 POMFRET RD
STAGE RD
139 STAGE RD
1917 POMFRET RD
1827 POMFRET RD
1857 POMFRET RD
1869 POMFRET RD
247 STAGE RD
Barnard Brook

# Public Input

# Intersection of Pomfret Road, Stage Road and Library Street



# Pomfret Road (South)



# Stage Road



# Pomfret Road (North)








# Questions?
# Comments?








# Stay Connected!

Jenn Conley, Project Manager

jconley@vhb.com

802.497.6191

# Meeting Notes

| | | | |
|---|---|---|---|
| Date: | September 15th, 2022 | Notes Taken By: | Rose O'Brien, EIT |
| Place: | Artistree Community Arts Center | Re: | Local Concerns Meeting |
| Project No.: | 58786.00 | | |

ATTENDEES:

Project Team
Jonathan Harrington, Municipal Project Manager
Jenn Conley, PE, PTOE VHB Project Manager
Rose O'Brien, Public Outreach

Members of the Public
Sharlene Kelly – *CMSLLC3@gmail.com* skelly@granitegroupadvisors.com, Vern Clifford, Tina Clifford – clifhngr2@gmail.com , Marie Cross – mpcole73@gmail.com, Cara Defoor – caradefoor@gmail.com, Joe Defoor – 1799 Pomfret Rd South Pomfret, Kathleen Dolar – kd@artistreevt.org, Sharlene Kelly, Pam Pickett, Shaun Pickett – spickettvt@gmail.com, Eleanor Pizzani – ellypizzani@aol.com, Cory Smith – abbottlibrary@gmail.com,

## Presentation

Jenn Conley presented the project schedule, draft purpose and existing conditions information collected to date (while collecting some input) and then opened the meeting up to public comment

## Public Input and Local Concerns

### Purpose Statement

A resident suggested better defining or rewording "Village Center" to "Village," "Study Area," or "South Pomfret" to feel more inclusive of residents and not just commercial properties/destinations in town.

A resident suggested including "livability" in the purpose statement to further feelings of inclusivity of residents within the scope of work. Another resident commented that they were worried that the ranking of alternatives would not consider the impacts on residents based on the current wording.

The statement "non-motorized users" felt limiting to some attendees who suggested using "citizens" in its place.

Several residents approved of including the term "aesthetic" as this is something they would like to maintain within the town.

## The Intersection

Since the store has been renovated, this location appears safer. Traffic has slowed down, there is now defined parking and no parking in front of the store, improvement to sight lines at all stop signs, defined crosswalks and pedestrian signing, and defined curb lines.

There is informal parking on Library St which is used by trucks/trailers and should be kept since there is nowhere else for longer vehicles to park.

Issues with speeding down Library St and lack of definition at intersection with Stage Rd. A resident suggested adding curb and narrowing at intersection since many people do not stop at stop sign.

A resident expressed concerns about winter maintenance with the additional of curb, sidewalk, or widened shoulders.

All roads at this intersection are currently two-way which can be confusing for drivers pulling out of driveways. It's not clear who yields to who, there are lots of directions to check for traffic and the placement of stop signs makes them hard to see from some directions.

A resident asked where bikes would go if the roads were curbed.

Several residents suggested adding a crosswalk on Stage Rd from the Artistree path to the Grange Theatre, and either end of Library St. There are concerns about sight lines at any of the purposed crosswalks since most intersections are skewed.

A resident suggested making Library St and Pomfret Rd one-way around Teago to add space for bikes and pedestrians in the current paved area.

Another resident suggested closing Library Rd and making it a green space/path for bikes and pedestrians. Concerns with this suggestion due to a difficult left turn from Stage Rd to Pomfret Rd.

A resident suggested making just the bridge on Pomfret Rd one-way to add space for bikes and pedestrians without needing to build a new bridge.

## Pomfret Road (South)

Several residents suggested or were in support of a shared-use path from Artistree/Teago to the Elementary School. There was lots of approval for encouraging children to walk or bike more but felt that this section of road is very unsafe due to the curves in the road, lack of shoulder, and steep embankment next to the road.

There are concerns that this would impact the property owners along the road since most houses are very close to the edge of pavement.

A resident suggested a path that is off the roadway through the fields instead as most people currently ride through the fields between the river and houses along the road to get to the school. There were concerns about winter maintenance if path is not near roadway.

A resident suggested other traffic calming devices since many people speed into town still where the speed limit is lowered. Suggested gateway treatments such as speed feedback signs and village signage.

### Stage Road

A resident suggested including a wider shoulder from Saskadena Six to Teago. Currently the shoulder is narrow and uneven and therefore difficult to walk on.

Many noted that this road has less traffic, cars generally have room to move over and most activity between Saskadena Six and Teago is in the winter and not year-round.

One attendee expressed that even if there is less pedestrian traffic, since this traffic is in the winter, walkers are forced into the road due to large snowbanks on the shoulder and is a problem that should be addressed. It was also noted that summer activity could increase if the bike park reopened or if any other summer activities began.

An off-alignment path was suggested at this location as well but would be more maintenance.

### Pomfret Road (North)

Many Appalachian Trail hikers walk down this section of road to access Teago.

Not shown in the plans is another pedestrian pathway from Artistree to the Library that cuts through the tree line behind the library.

### Additional Comments from Site Walk

Bikers use the guardrail by Teago on Library St to park/lock up bikes.

The road surface at the intersection of Library St and Stage Rd is very uneven and needs to be repaired.

It is unclear if you are allowed to park on the side of Library St to access Teago since there are no defined parking spaces.

The reduced speed sign on Pomfret Rd (south) is hidden from drivers view and often missed.

There is lots of nighttime crossing from Grange Theatre to Artistree with no lighting.

The Artistree field lot across from Saskadena Six has a path to Artistree off the roadway but is only used in the summer.

There is not currently a lot of bicycle or pedestrian travel from Teago to the elementary school, but its possibly this is due to how unsafe the road is for bicycles and pedestrians.

Difficulties turning left out of Artistree since you need to cross Library St and Pomfret Rd and would miss the stop sign from that angle.

No defined truck/trailer parking for Teago.

Concerns about runoff into yards.

SOUTH POMFRET VILLAGE
# SCOPING STUDY

# Alternatives Presentation & Public Meeting



**Please join us for a presentation of transportation alternatives for the South Pomfret Village area. Come ready to share your input and feedback on projects that will improve connectivity, mobility, and safety for all users throughout the Village.**

Tuesday, November 29th, 2022

7:00 pm (In Person or Virtually)

**Virtual Details**
Link to the meeting can be found on www.pomfretvt.us
To join, click the link below
https://zoom.us/j/95395079923?pwd=ZjBEd3ZuZWgvWmx2M0tpOE8zbjg2dz09
Webinar ID: 953 9507 9923
Passcode: 306922
Via Telephone: +19292056099

**In Person Details**
Town Offices
5218 Pomfret Road
North Pomfret, VT 05053




**For comments or questions please contact Elisabeth Sundberg at esundberg@vhb.com**

# South Pomfret Village Scoping Study





## Alternatives Presentation & Public Meeting

**November 29th, 2022**
**7 PM**

vhb

# PROJECT TEAM INTRODUCTIONS

- Jonathan Harrington, Municipal Project Manager
- Jenn Conley, PE, PTOE | VHB Project Manager
- Karen Sentoff | Technical Lead
- Rose O'Brien | Public Outreach

# Agenda

- Introductions
- Project Scope & Schedule
- Purpose & Need
- Local Concerns Meeting Takeaways
- Alternative 1
- Alternative 2
- Alternative 3
- Alternative 4
- Public Input
- Next Steps

# SCOPE AND SCHEDULE

| | |
|---|---|
| **Project Kickoff Meeting** | May 2022 |
| **Base Mapping/Existing Conditions** | In Progress |
| **Resource Constraints & Permitting Assessment** | In Progress |
| **Local Concerns Meeting** | *September 15th, 2022* |
| **Develop Conceptual Alternatives** | September- November 2022 |
| **Alternatives Presentation Meeting** | **Today** |
| **Draft Scoping Report** | December 2022 |
| **Final Public Meeting** | January 2023 |
| **Final Scoping Report** | February 2023 |

# PROJECT PURPOSE



The purpose of the South Pomfret Village Scoping Study is to identify opportunities to **improve connectivity** throughout the Village and evaluate design alternatives that will **improve safety and mobility** for all users while **maintaining the livability and historic aesthetic** of the Village.

# PROJECT NEEDS



## IMPROVE PEDESTRIAN AND BICYCLIST MOBILITY AND SAFETY

The lack of dedicated space for pedestrians and bicyclists, in addition to very few crossing opportunities, greatly limits connectivity throughout the Village. Due to existing conditions, vulnerable road users have limited safe access to local businesses, educational resources, and recreational opportunities and are exposed to potential traffic conflicts.



## IMPROVE TRAFFIC CIRCULATION AND SAFETY

Current traffic patterns lack delineated travel ways, parking, turning radii, and access management - all of which enable higher vehicle operating speeds through the Village and limit intuitive access for users.

# Study Area

- Intersection of Stage Road, Pomfret Road, and Library Street
- Project Boundaries:
  - Saskadena Six Ski Resort
  - Artistree Arts Community Center
  - 1806 Pomfret Road



# Local Concerns Meeting Recap

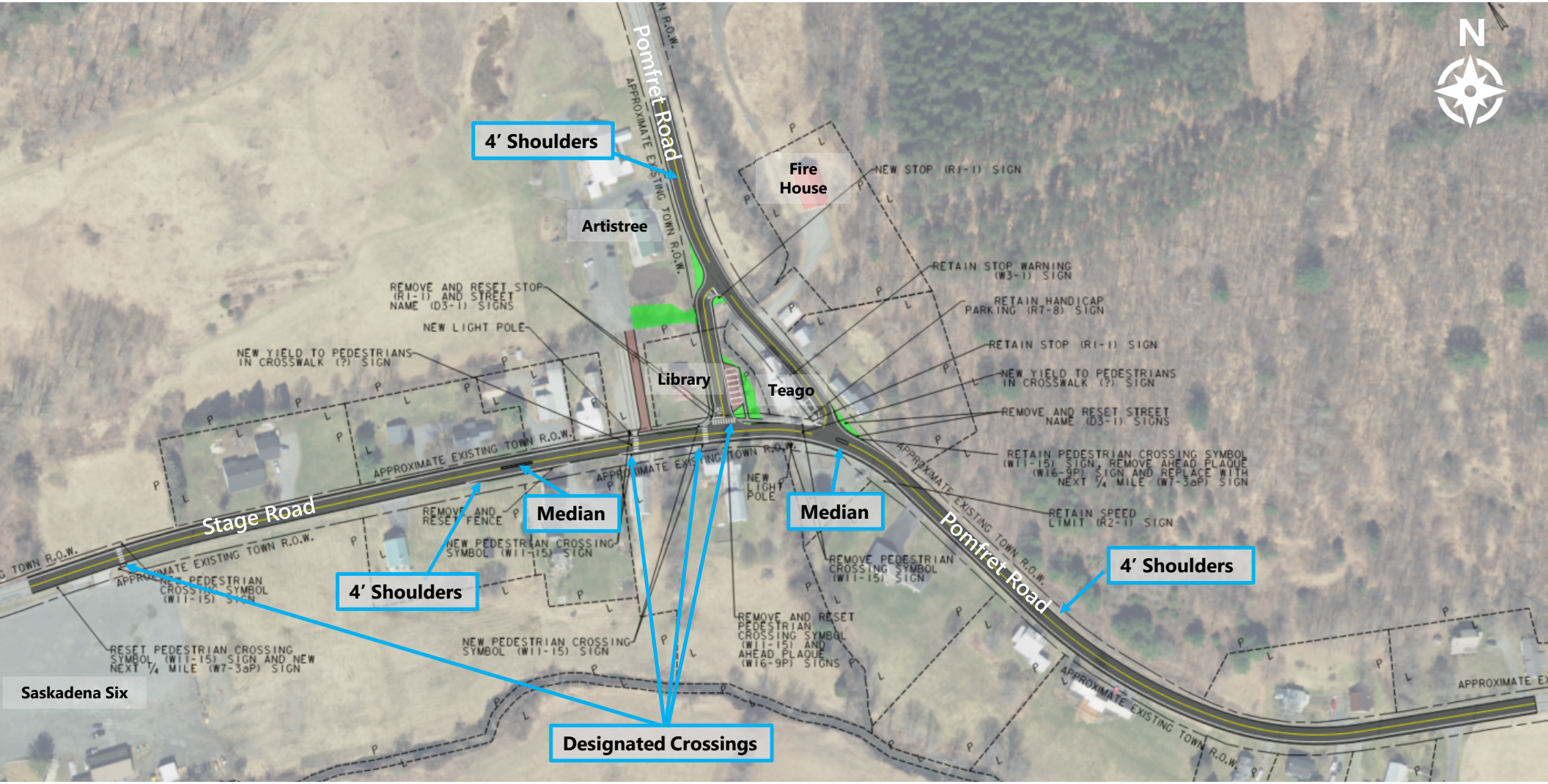
- Draft Project Purpose
- Existing Conditions
- Public Feedback
  - Property Impact Concerns
  - Speeding Concerns
  - Pedestrian and Bicyclist Safety Concerns
  - Lack of Lighting
  - Intersection Safety Concerns



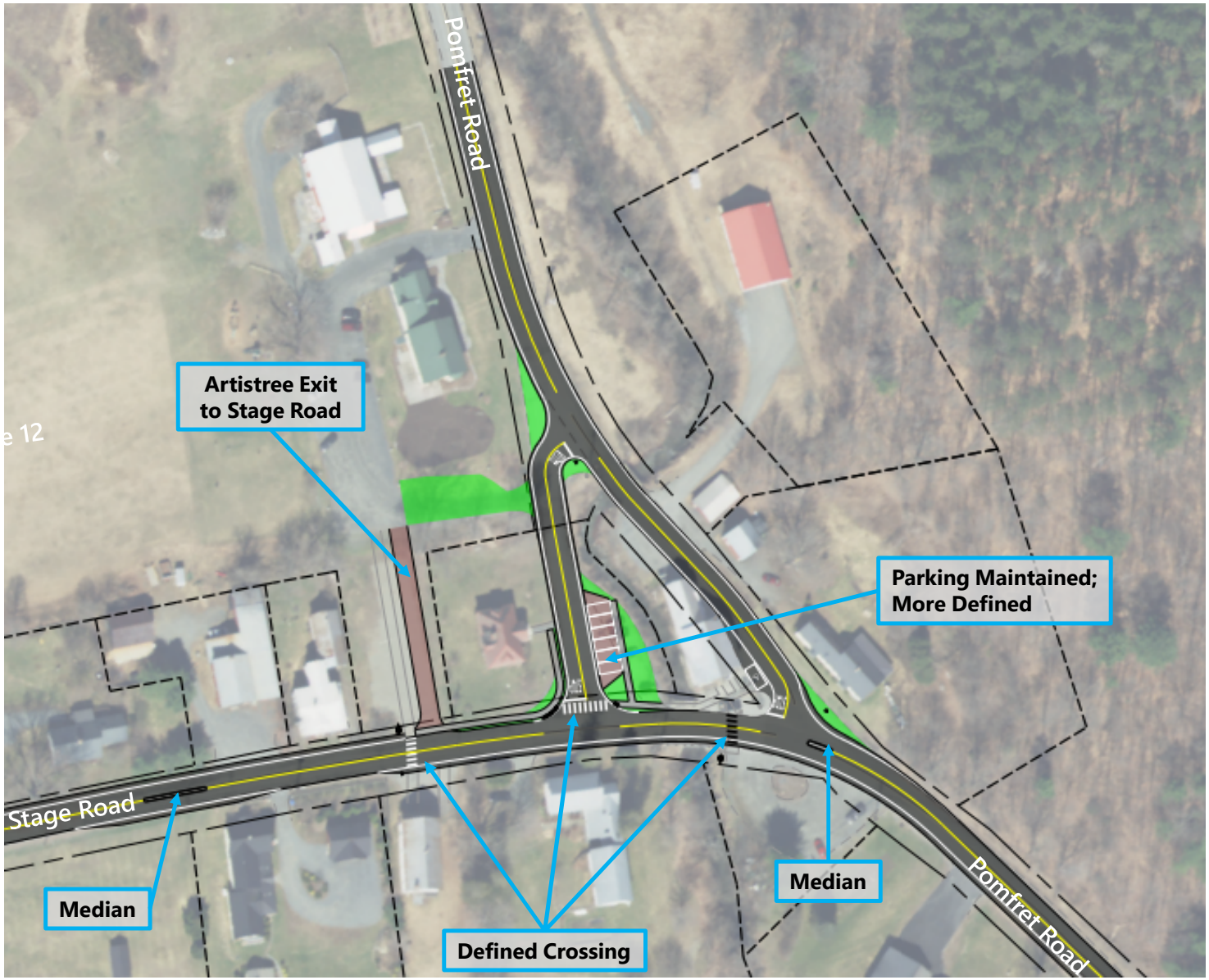
# Conceptual Alternatives & Evaluation

# *Alternative 1*

# Alternative 1



# Alternative 1









## LOOKING EAST ON STAGE ROAD

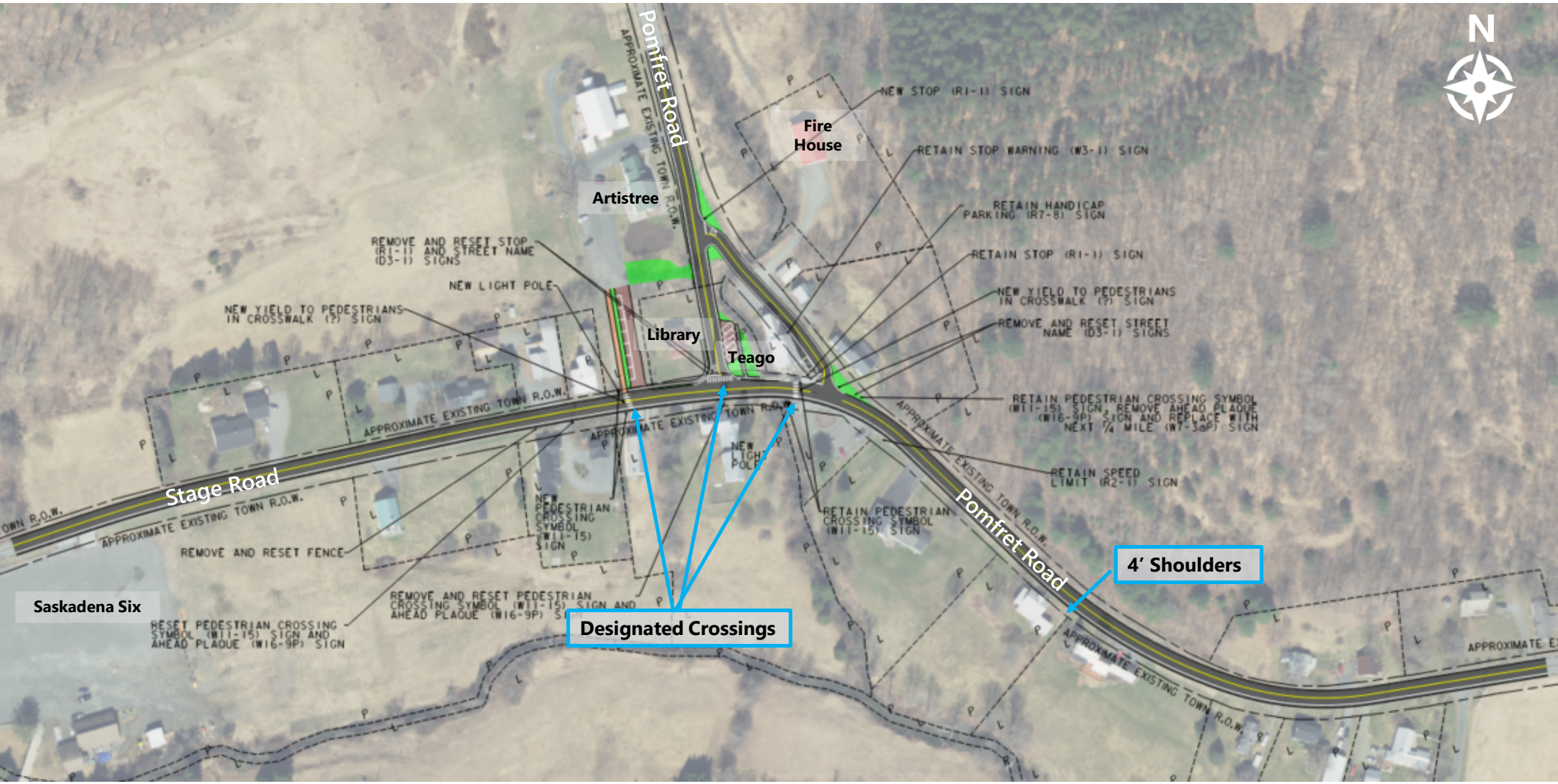
## LOOKING SOUTH ON LIBRARY STREET



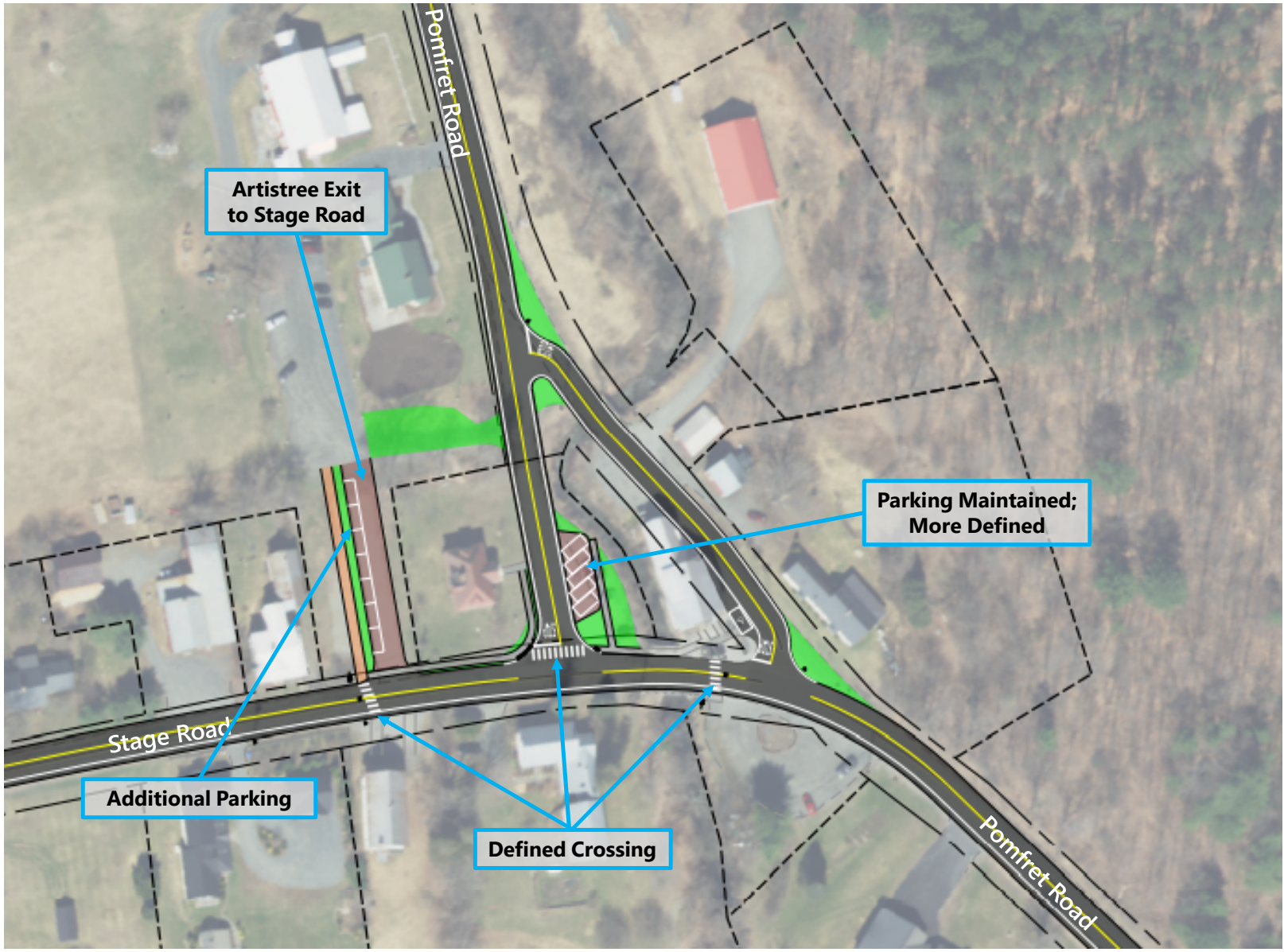



# *Alternative 2*

# Alternative 2



# Alternative 2









## LOOKING EAST ON STAGE ROAD

## LOOKING SOUTH ON LIBRARY STREET






ES21

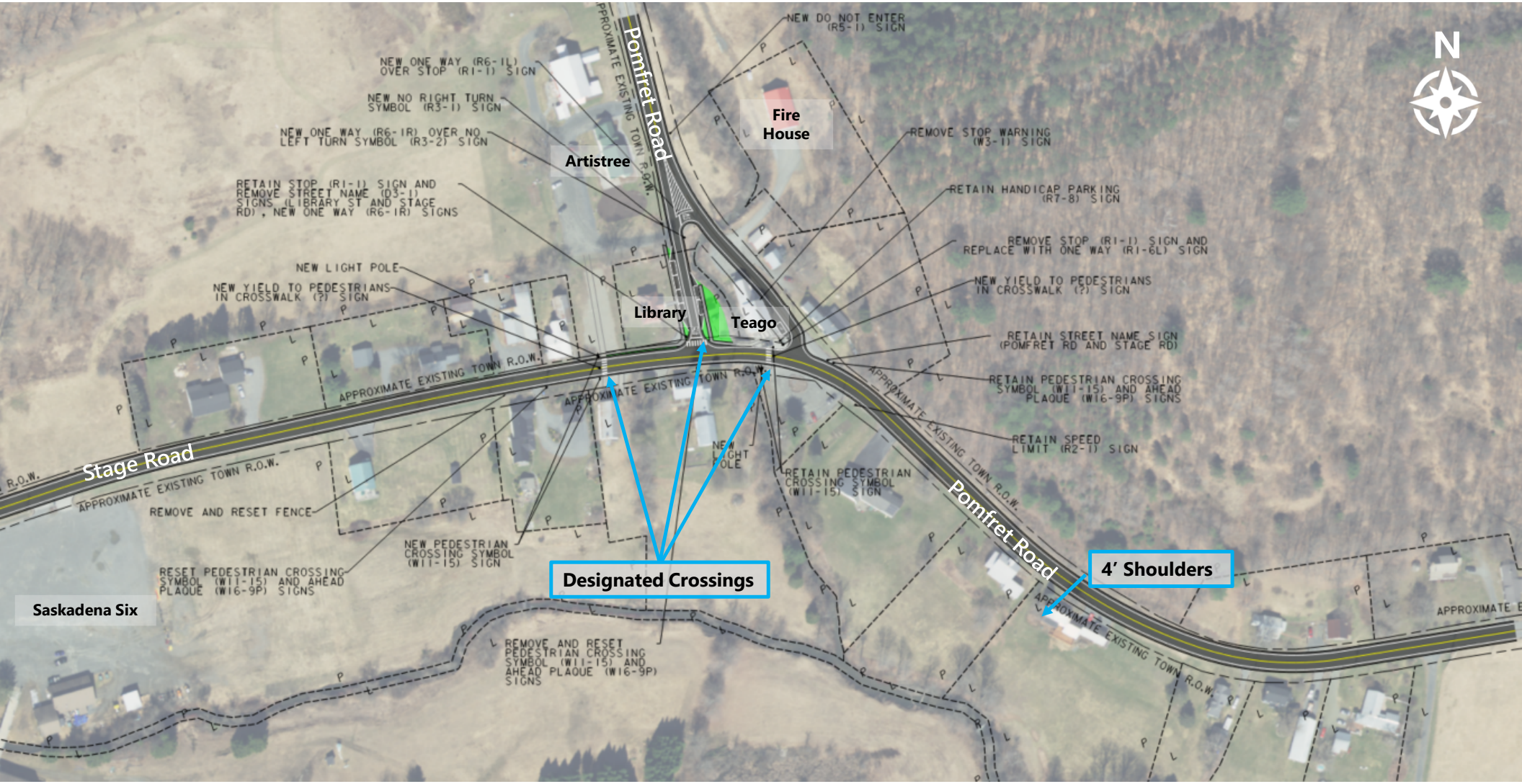
# *Alternative 3*

## Slide 18

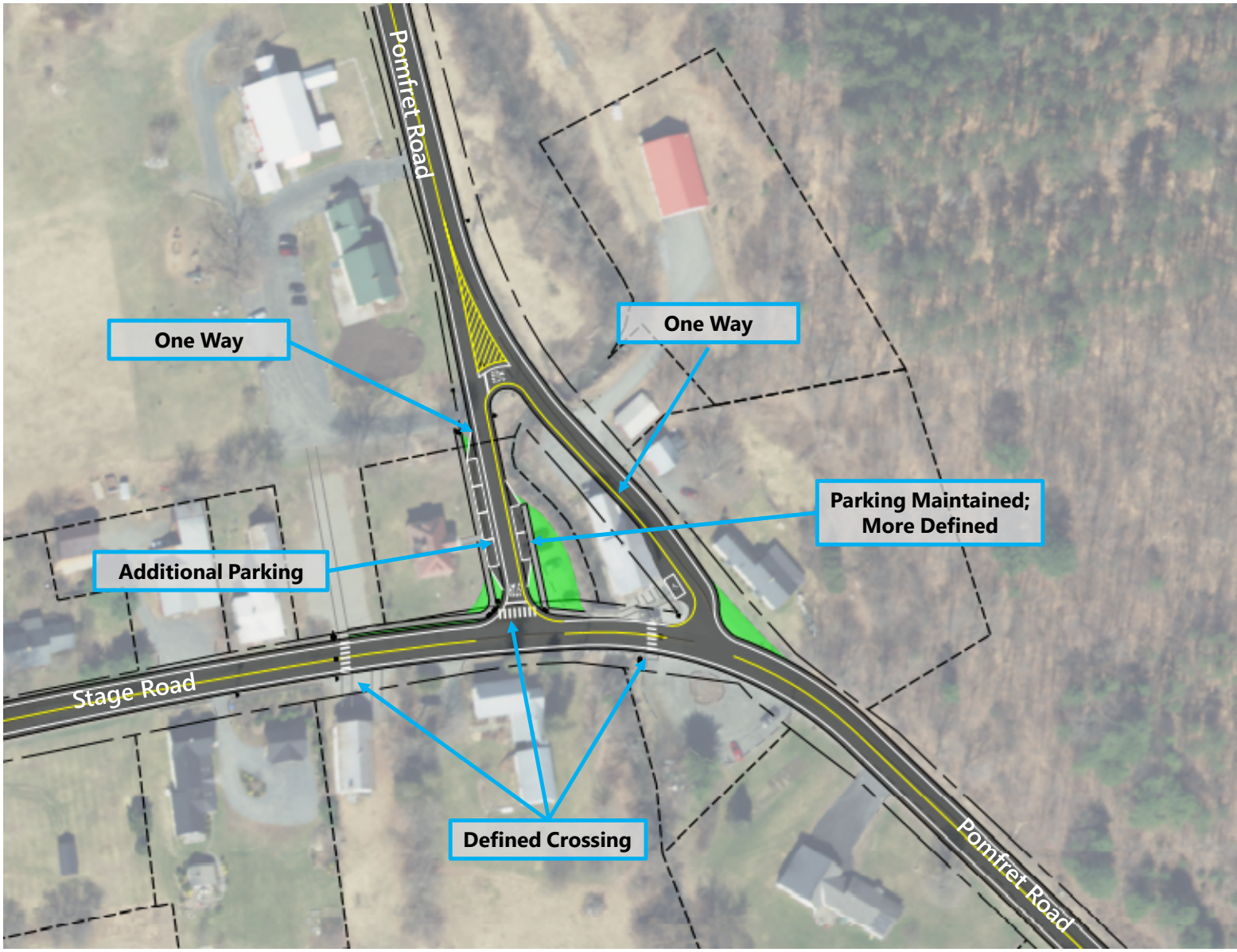
**ES21** update with alternatives for pomfret

Elisabeth Sundberg, 11/18/2022

# Alternative 3



# Alternative 3









## LOOKING EAST ON STAGE ROAD

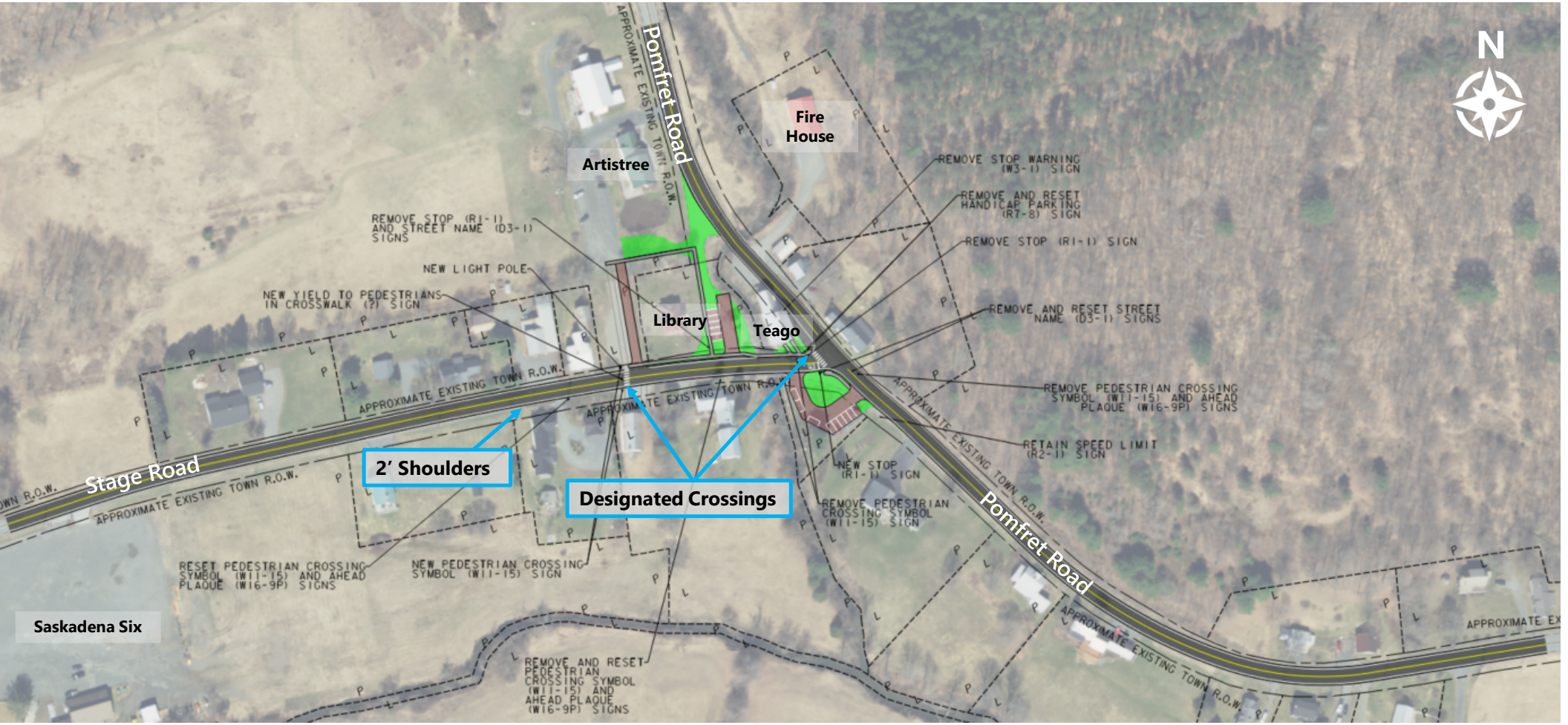
## LOOKING SOUTH ON LIBRARY STREET



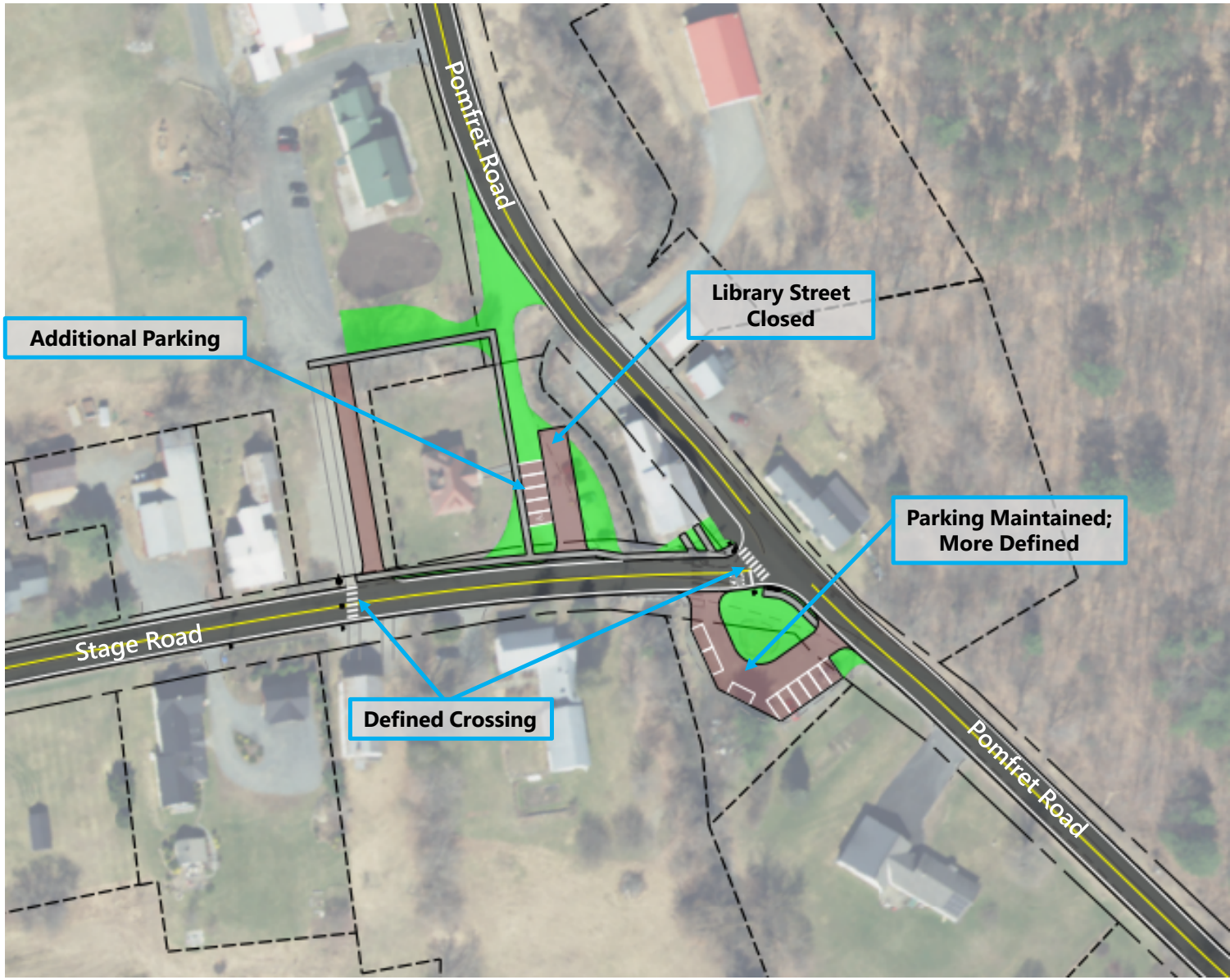



# *Alternative 4*

# Alternative 4



# Alternative 4









## LOOKING EAST ON STAGE ROAD

## LOOKING SOUTH ON LIBRARY STREET






# Evaluation Matrix – Cost, Safety and Community Character

| **Evaluation Matrix** | **Alternative 1** | **Alternative 2** | **Alternative 3** | **Alternative 4** |
|---|---|---|---|---|
| | Library Street tees into Pomfret Road and Stage Road, Medians on Stage and Pomfret approaches, Aristree exit to Stage Road, Alternating 4' Shoulders on Stage Road | Pomfret Road tees into Library Street, Artistree exit to Stage Road with Parking, 4' Shoulder Southside on Stage Road | One-way Pair for Pomfret Road and Library Street, Parallel Parking both sides Library Street, 4' Shoulders on Stage Road | Library Street closed to traffic, Stage Roads tee into Pomfret Road, 2' Shoulders on Stage Road |
| Cost | | | | |
| Relative Cost Scale | $484,043 | $476,422 | $509,466 | $516,640 |
| Safety & Mobility | | | | |
| Pedestrian Access & Safety | Improved | Improved | Improved | Improved |
| Bicyclist Access & Safety | Slighty Improved | Slightly Improved | Improved | Slightly Improved |
| Vehicle Safety | Improved | Improved | Improved | Improved |
| Community Character | | | | |
| Aesthetics | Improved | Improved | Improved | Improved |
| Satisfies Purpose & Need | Yes | Yes | Yes | Yes |

# Evaluation Matrix – Anticipated Impacts

| Evaluation Matrix | Alternative 1<br>Library Street tees into Pomfret Road and Stage Road, Medians on Stage and Pomfret approaches, Aristree exit to Stage Road, Alternating 4' Shoulders on Stage Road | Alternative 2<br>Pomfret Road tees into Library Street, Artistree exit to Stage Road with Parking, 4' Shoulder Southside on Stage Road | Alternative 3<br>One-way Pair for Pomfret Road and Library Street, Parallel Parking both sides Library Street, 4' Shoulders on Stage Road | Alternative 4<br>Library Street closed to traffic, Stage Roads tee into Pomfret Road, 2' Shoulders on Stage Road |
|---|---|---|---|---|
| Impacts | | | | |
| ROW Impacts | Moderate - Library Street and Aristree Driveway reconfiguration | Moderate - Library Street and Aristree Driveway reconfiguration | Minor - Library Street | Moderate - Library Street and Aristree Driveway Reconfiguration |
| Utility Impacts | Moderate | Moderate | High | Moderate |
| Agricultural Lands | None | None | None | None |
| Archaeological | Minor | Minor | Minor | Minor |
| Historic | Required | Required | Required | Required |
| Fish & Wildlife | None | None | None | None |
| Rare Threatened & Endangered Species | None | None | None | None |
| Public Lands - Sect. 4(f) | Required - Library | Required - Library | Required - Library | Required - Library |
| Wetlands | None | None | None | None |
| New Impervious Surfaces | Minor | Minor | Moderate | Minor |

# Evaluation Matrix – Anticipated Permitting

| Evaluation Matrix | Alternative 1<br>Library Street tees into Pomfret Road and Stage Road, Medians on Stage and Pomfret approaches, Aristree exit to Stage Road, Alternating 4' Shoulders on Stage Road | Alternative 2<br>Pomfret Road tees into Library Street, Artistree exit to Stage Road with Parking, 4' Shoulder Southside on Stage Road | Alternative 3<br>One-way Pair for Pomfret Road and Library Street, Parallel Parking both sides Library Street, 4' Shoulders on Stage Road | Alternative 4<br>Library Street closed to traffic, Stage Roads tee into Pomfret Road, 2' Shoulders on Stage Road |
|---|---|---|---|---|
| Permitting | | | | |
| Act 250 | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Section 404 - Wetlands (USACOE) | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Section 401 Water Quality Certification | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| State Wetlands Permit | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Stream Alteration Permit | Potential | Potential | Potential | Potential |
| Construction Phase Storm Water Discharge Permit (General Permit 3-9020) | Not Anticipated | Not Anticipated | Not Anticipated | Not Anticipated |
| Operational Phase Storm Water Discharge Permit (General Permit 3-9015) | Not Anticipated | Not Anticipated | Not Anticipated | Not Anticipated |
| Lakes & Ponds | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Rare, Threatened, and Endangered Species | Not Anticipated | Not Anticipated | Not Anticipated | Not Anticipated |
| Section 1111 Permit | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

# Public Input






**Questions?**

**Comments?**








# Stay Connected!

Jenn Conley, Project Manager

jconley@vhb.com

802.497.6191

# Meeting Notes

| | | | |
|---|---|---|---|
| Date: | November 29, 2022 | Notes Taken By: | Rose O'Brien |
| Place: | Pomfret Town Office | Re: | S Pomfret Alternatives Presentation & Public Meeting |
| Project No.: | 58786.00 | | |

ATTENDEES:

Project Team
Jonathan Harrington, Municipal Project Manager
Jenn Conley, PE, PTOE VHB Project Manager
Rose O'Brien, Public Outreach

Members of the Public
Glenn Barbi (online)
Mary Ann Barbi (online)
Annie Bower (online)
Vern Clifford (online)

## Presentation

Jenn Conley presented an overview from the Local Concerns meeting, the final Purpose and Need from the Selectboard, and then the Alternatives while taking public comment during each alternative presentation.

## Public Input on Alternatives

### Alternative 1

A resident asked if lanes could be narrowed to 10 feet to avoid needing to widen the road to add shoulders.

There was concern about the placement of the median on Stage Road and at the intersection of Stage Road and Pomfret Road due to the need to widen the road to add the median near residencies and potential conflict with driveways and trucks turning. Another resident suggested the use of mountable curb on the median to avoid turning movement and plowing issues.

Residents are concerned that widening the road will cause drainage issues in the front yards and homes next to the road. Another resident pointed out that there are already drainage issues that could be fixed in this area.

There was lots of approval of Library Street. Residents liked adding crosswalks, redefining the Library Street and Stage Road intersection, defining the parking on Library Street. There was mixed reaction to moving the exit to Artistree due to current drainage issues and conflicting turning movements. The maintenance and drainage of the sidewalk between the Grange Theater, Library, and Teago was a concern to several residents.

### Alternative 2

A resident expressed concerned with Artistree exiting by their home on Stage Road and increasing traffic at that location.

There are concerns of speeding on Pomfret Road (north) and Library Street if Pomfret Road tees into Library at that intersection. A resident suggested adding a median on the north leg of Pomfret Road to slow speed approaching the main intersection.

### Alternative 3

Several residents liked the one-way roads on Library Street and Pomfret Rd since shoulders could be added without widening the road. There was concern about trucks turning onto Pomfret Road from Stage Road which is currently a difficult turn.

One resident pointed out that the handicapped parking by Teago would put a vans handicap ramp into the roadway if the road is a northbound one-way. Suggested moving the handicapped spot to Library Street and removing the existing space and curb bump-out from the Pomfret Road and Stage Road intersection to improve turning movements.

There were suggestions to add a median to the Pomfret Road north leg to slow traffic coming onto Library Street. The shown hatched area could be raised with mountable curb to achieve this.

There was concern that one-way roads would create more traffic in locations it was not before.

There was support of the Artistree exit realignment, but without parking.

Continued support of redefining Library Street.

### Alternative 4

There was support of a bicycle and pedestrian path on Library Street with no vehicle access.

There is a concern of loss of parking with this alternative.

Suggested placing medians before curve on south leg of Pomfret Road, by Artistree on north leg of Pomfret Road, and by Saskadena Six on Stage Road.

There are concerns about closing Library Street with the potential need to close or replace bridges on Pomfret Rd and Stage Road.

## Discussion by Segment:

### Stage Road

A resident suggested striping lanes at 10′ lanes with no widening for shoulder.

Several residents do not want a median on Stage Road.

At least add shoulder on one side of road at four feet, but without widening.

A resident asked if we could address drainage issues.

### Intersection

Overwhelming support for teeing Pomfret Road into Stage Road and Library Street into Stage Road and Pomfret Road.

Some suggested keeping Library Street two-way but making Pomfret Road one-way either northbound only.

If the Pomfret Road/Stage Road intersection was improved to allow for large truck turns from Stage Road to Pomfret Road, then the one-way combined alternative is an option.

Many believe eliminating Library Street will cause too many issues at the Stage Road/Pomfret Road intersection.

### Artistree Exit

Support for moving exit due to current issues with drainage and turning movements.

A resident pointed out that moving the exit away from the entrance will help separate traffic and further improve turning movements and traffic flow.

### Pomfret Road

Most agree that the south leg of Pomfret Road poses the biggest problem for pedestrian and bicycle users. Preferred to add shoulder on south side of road (four feet suggested but widening as much as is feasible).

### Library Parking

Approval for defining parking spaces, but concern of loss of parking (currently 7-8 spots on east side and parallel parking for trucks or vehicles with trailers on west side).

# Public Comment

Date: January 26, 2023 Notes Taken By: Jenn Conley

Project No.: 58786.00 Re: S Pomfret Alternatives

Public comments have been received in response to the Alternatives Presentation Meeting and are summarized as follows:

Library Trustees and Librarians

1. Wants a right turn from Pomfret Road to Library Street
2. Keep Pomfret Road and Library Street 2 way
3. Maintain 6-8 pkg spaces on east side of library (potential future HC parking on west side)
4. Define parking, wide shoulders, crosswalks, open to medians concerned about sidewalk maintenance and replacements, concerned about drainage impacts
5. Check truck maneuvers

Sharlene Kelly

1. Oppose streetlights
2. Focus on Teago to school especially sharp curve
3. Prefers Option 1 – she prefers, eliminate medians, peds on side of Teago, library etc.
4. Second choice is Option 4 – because likes green space, spacious, and organized flow
5. Least favored is alternative #2 and #3

Glenn and MaryAnne Barbi

1. Wants to maintain rural and historic feel
2. Would like minimal widening to roadway and sidewalks
3. Few if any necessary changes to lighting. If lighting is necessary, use only during Grange Theater activities

Theresa Antal

1. Supportive of alternative #1
    a. Moving Artistree access will help safety

Pam Pickett

1. Less is more
2. Supportive of alternative #1
    a. In favor of additional crosswalks, signage, and sidewalks
    b. Likes that the curved access will slow people down
    c. Sidewalks on Library Street would be beneficial.
    d. Possible medians to slow traffic with concern for maintenance and impacts from widening
3. Create shoulders by decreasing lanes with lines (Jon Harrington's suggestion during the meeting) to minimize the impact on adjacent homeowners.

Nick Browning

1. Suggest having the small length of road that cuts between the Teago Store and Fire department be permanently closed

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**P** 802.497.6100 **F** 802.495.5130 www.vhb.com

a. Feels it would be safer intersection for bicyclist and pedestrians with that set up

Pam Pickett

1. Concern regarding lighting
    a. Alternative to lighting may be adding more signage
    b. if more lighting is need, use low level lights, and preferably only during theater events
2. Not in favor of additional lighting in village, feels there is currently adequate lighting for Artistree events and at Teago Store, additional lighting will negatively impact livability, rural character, and aesthetic of village

Hunter Ulf

1. Supportive of alternative 1
2. In favor of the median to define the gateway
3. In favor of the parking on library street
4. In favor of the wider shoulders and would like them extended to S6 and to Prosper Valley School

Neil Lamson

1. In favor of library street being closed
    a. Parking could be expanded
    b. Would feel safer for pedestrians
    c. The dangerous Artistree exit onto library street would be eliminated
    d. Artistree lane would be safer exiting on Stage Road
    e. Intersection of Pomfret Road and Stage Road could be redesigned to accommodate traffic turning onto Pomfret Road from Stage Road
    f. Included rough sketch of ideas.

Lindsay Hyde

1. In favor of safe pedestrian connections focused between Teago's, Artistree, The Grange Theatre, the Library, and Saskedena
2. Would like to remove one of the roadways and lower the speed limit
3. Overall feels that speed should be lowered if there are more bike/ ped infrastructure
4. Have entire area between Teago, Artistree, library and theater be pedestrian only
5. Reduce speed from all approaches to project area

Eleanor Pizzani (via phone on 1/11/2023)

1. Concerned with including lights at crosswalks
2. Concerned with widening towards her house – would rather not – worried about runoff into her driveway
3. Would like to be able to walk from Teago Store – from end of bridge very uneven to walk into parking lot – also the old island space collects water
4. Could Artistree change their circulation ins v. outs?

Artistree

1. Likes the roadway configuration shown in Alternative #1 at Alternatives Presentation Meeting.
2. Not interested in modifying the parking lot circulation to exit onto Stage Road instead of Library Street due to concerns of moving children between their two facilities – would not like vehicles exiting adding to the conflict at that location

3. Open to modifications to the drive on Library if improves the safety

# Village of South Pomfret Scoping Study



## Preferred Alternative Presentation at Selectboard Meeting

**March 1st, 2023**
**7 PM**



# PROJECT TEAM INTRODUCTIONS

- Jonathan Harrington, Municipal Project Manager
- Jenn Conley, PE, PTOE | VHB Project Manager
- Karen Sentoff | Technical Lead
- Rose O'Brien | Public Outreach

# Agenda



Project Team



Public Engagement



Purpose & Need



Preferred Alternative



Next Steps

# Public Engagement

| | |
|---|---|
| **Project Kickoff Meeting** | May 2022 |
| **Local Concerns Meeting** | September 15th, 2022 |
| Develop Conceptual Alternatives | September- November 2022 |
| **Alternatives Presentation Meeting** | November 29th, 2022 |
| Public Comment Period | November- January |
| Developed Preferred Alternative | January- February |
| Draft Scoping Report | February 2023 |
| **Preferred Alternative Presentation** | **Today** |
| Final Scoping Report | March 2023 |

# PROJECT PURPOSE



The purpose of the South Pomfret Village Scoping Study is to identify opportunities to **improve connectivity** throughout the Village and evaluate design alternatives that will **improve safety and mobility** for all users while **maintaining the livability and historic aesthetic** of the Village.

# PROJECT NEEDS



## IMPROVE PEDESTRIAN AND BICYCLIST MOBILITY AND SAFETY

The lack of dedicated space for pedestrians and bicyclists, in addition to very few crossing opportunities, greatly limits connectivity throughout the Village. Due to existing conditions, vulnerable road users have limited safe access to local businesses, educational resources, and recreational opportunities and are exposed to potential traffic conflicts.

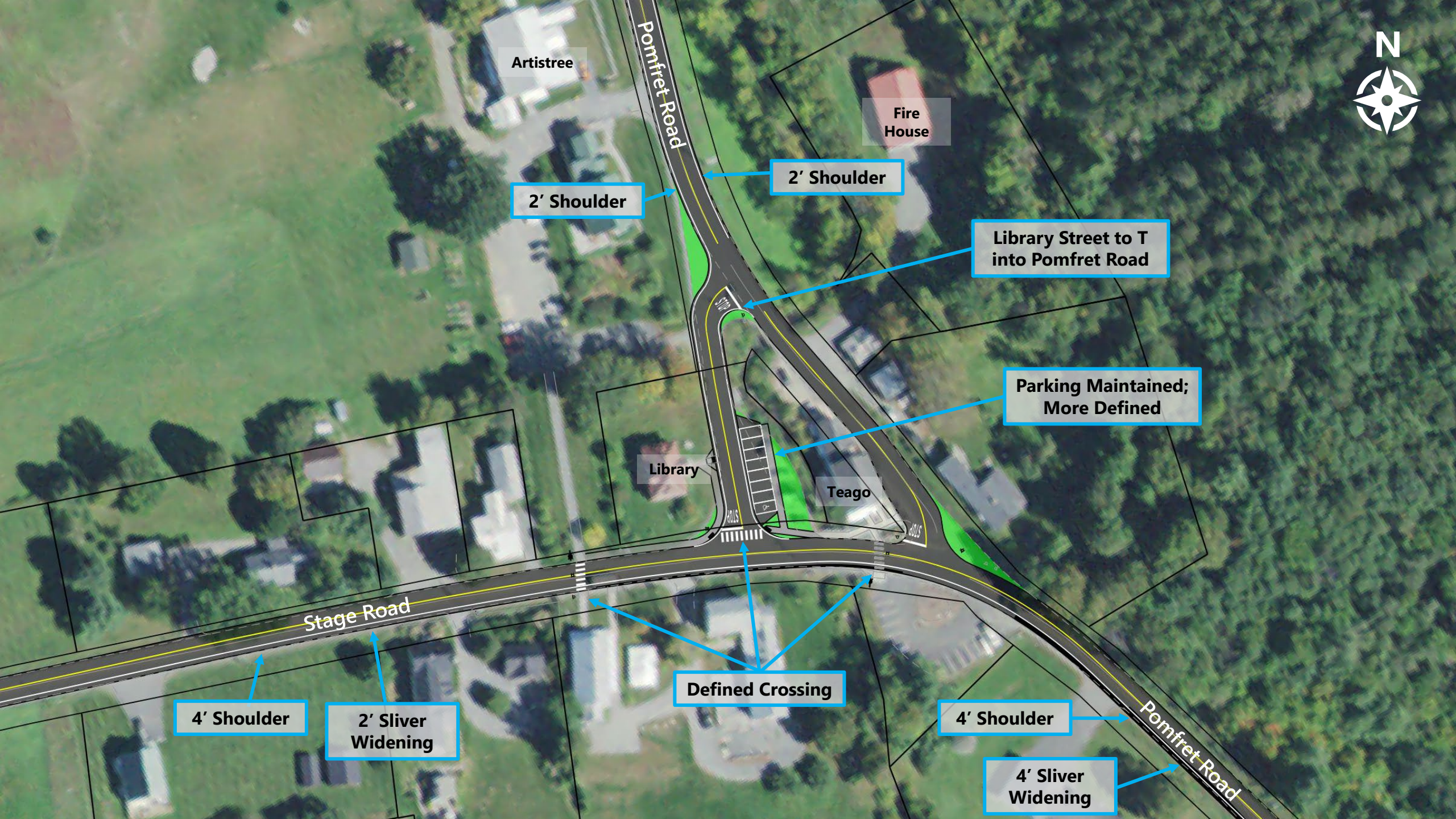


## IMPROVE TRAFFIC CIRCULATION AND SAFETY

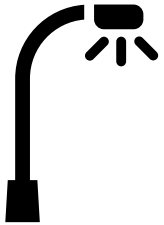
Current traffic patterns lack delineated travel ways, parking, turning radii, and access management - all of which enable higher vehicle operating speeds through the Village and limit intuitive access for users.

# Preferred Alternative Concept


Artistree
Pomfret Road
2′ Shoulder
Fire House
2′ Shoulder
Library Street to T into Pomfret Road
Parking Maintained; More Defined
Library
Teago
Stage Road
4′ Shoulder
2′ Sliver Widening
Defined Crossing
4′ Shoulder
Pomfret Road
4′ Sliver Widening
Saskadena Six


N
Artistree
Pomfret Road
Fire House
2’ Shoulder
2’ Shoulder
Library Street to T into Pomfret Road
Parking Maintained; More Defined
Library
Teago
STOP
STOP
Stage Road
Defined Crossing
4’ Shoulder
2’ Sliver Widening
4’ Shoulder
Pomfret Road
4’ Sliver Widening

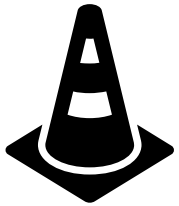
# Issues Carried Forward



## LIGHTING

During the public meetings and public comment period many residents expressed their concerns about lighting at the crosswalks

- Safety vs. Dark Sky



## CONSIDER PILOT PROGRAM

Potential conversion to one-way circulation on Pomfret Road and Library Street

- Considered but not universally supported
- Concern regarding truck movements vs. improved safety of bike/pedestrian space

# Evaluation Matrix – Cost, Safety and Community Character

| Evaluation Matrix | Preferred Alternative |
|---|---|
| **Cost** | |
| Relative Cost Scale | **$1,131,344** |
| **Safety & Mobility** | |
| Pedestrian Access & Safety | **Improved** |
| Bicyclist Access & Safety | **Slightly Improved** |
| Vehicle Safety | **Improved** |
| **Community Character** | |
| Aesthetics | **Improved** |
| Satisfies Purpose & Need | **Yes** |

# Preferred Implementation Plan

| | ***Location and Description of Improvements*** | ***Estimated Cost**** |
|---|---|---|
| *Staged Implementation* | | |
| 1 | Library Street Improvements including sidewalks, parking area, intersection with Stage Road, and intersection with Pomfret Road | $365,000 |
| 2 | Widening and Striping Stage Road – Pomfret Road from Saskadena Six to Elementary School | $715,000 |
| 3 | Pomfret Road Improvements from Stage Road Intersection north | $120,000 |

**Costs include construction, contingency, engineering and design, traffic control and mobilization/demobilization. Does not include Right-of-Way or property acquisition costs*

# Next Steps

| | |
|---|---|
| Selectboard Endorsement | Today ☑ |
| Final Scoping Report | March 2023 |

Design

- Grant Applications
- Pilot Project

# Meeting Notes

| | | | |
|---|---|---|---|
| Date: | March 1, 2023 | Notes Taken By: | Rose O'Brien |
| Place: | Pomfret Town Office | Re: | S Pomfret Final Presentation & Public Meeting |
| Project No.: | 58786.00 | | |

ATTENDEES:

Project Team
Jonathan Harrington, Municipal Project Manager
Jenn Conley, PE, PTOE VHB Project Manager
Rose O'Brien, Public Outreach

Members of the Public
Sharlene Kelly (online)
James Kelly (online)
Charlie Kelly (online)
Tim Dowd (online)
Betsy Rhodes (online)
Maura Tynes (online)

## Presentation

Jenn Conley presented the preferred alternative and took public comment on the preferred alternative and draft of the final report.

## Public Input on the Preferred Alternative

Jon Harrington asked to see the cost estimate in the final report broken out into two different segments for roadway widening. One segment would be from Saskadena Six to 1806 Pomfret Rd as the "Village" area and the second would be from 1806 Pomfret Rd to the Pomfret Elementary School. He also asked that the new impervious area from roadway widening be checked to confirm there are no operational stormwater permit requirements and to check the report for mention of a median in the preferred alternative. Additionally, Jon would like to see a pilot program for the one-way alternative done before the preferred alternative is official approved.

Sharlene Kelly asked if there is any priority for building project segments as they are broken out in the cost estimate. Jenn responded that there is no priority, and the cost breakdown could be used to identify different funding sources based on the type of work to be performed. She also asked about difference between "2' sliver widening" and "4' shoulders" as shown on the layout graphics. The term "sliver widening" indicates the amount of widening to the existing roadway to achieve the desired 4' shoulder. Sharlene followed up this question by asking how the widening is achieved where there is a steep embankment. Jenn responded that this would be determined during the engineering portion of design and could be a fill that ties in the new slope at same grade as existing or could change the slope of the tie in to be less steep then the existing conditions.

Charlie Kelly was concerned that a decrease in lane widths from 11' to 10' would reduce safety for bikes. He interrupted the shoulder widening as a raised sidewalk and not a designated area for pedestrians and bikes that is flush with the roadway. Pedestrians and bicyclists are intended to share the 4' shoulder in the eastbound direction and bicyclists and cars are expected to continue to share the roadway in the westbound direction. This only improves in bicycle safety in the eastbound lane with no change in safety for westbound travel. Additionally, decreasing lane width will help to slow cars which is a safety improvement for bicycles.

Tim Dowd asked if bridge improvements needed to be done before the roadway improvements. Jenn responded that no changes to the roadway are proposed over the bridges so the roadway work proposed in this study can be done without conflicting with bridge work. Additionally, the bridge project will be a much longer process then any bicycle and pedestrian improvements so the work proposed in this study should proceed without waiting on the bridge improvements. Tim asked to check the final report for mention of the bridge work as he thought there was mention of the bridge project in the timeline for the bicycle and pedestrian improvements. He also asked if an alternative was ever developed for a path to the elementary school off the roadway alignment. Jenn responded that this was discussed at the local concerns meeting but with no public Right-of-Way to achieve this, it would require taking a significant amount of private property.

Betsy Rhodes is concerned with the roadway drainage where there is sidewalk and curb recommended. Jenn responded that the final report and cost estimate will be updated to include contingencies for drainage infrastructure. She also asked that the final report be checked for mention of moving the Artistree exit as this alternative was not preferred. Additionally, she asked if Library St is one-way would parking change. Jenn responded that parking does not need too but could be parallel or angled as another alternative. She also as concerns for maintaining the sidewalks with snow removal and for truck turning movements and the implied safety concerns for pedestrians if trucks need to make multi-point turns. Jenn confirmed that turning movements were checked for the largest sized vehicle that can currently make the turns without issue and all turns were possible in one motion.

Maura Tynes asked what the timeline is for the project. Jenn responded that after the final scoping report is published in March, the next steps are acquiring grant funds, survey, design, and then construction, so there are still multiple years from anything being construction

James Kelly asked where lighting is proposed. Jenn responded that it has not been decided yet and could be include in the engineering design process. There were many concerns about light pollution so decisions such as type of light fixture, location, and hours of operation could be decided during design if lighting is desired. He also asked what would happen if there were drainage issues after construction. Jenn stated that drainage has not yet been designed and would be part of the engineering design progress later. An extensive design is done to mitigate drainage issues, if drainage infrastructure is incorrectly built the repair falls on the contractor, but the design process should mitigate any perceived issues.

Betsy Rhodes asked why the cost estimates have all increased. Jenn responded that the increased came in two parts: widening the road down to elementary school increased costs for all alternatives and updated material unit costs from the most recent VTrans construction bids.

Sharlene Kelly asked how negative impacts from design are handled. Jenn reiterated that construction is far off, and no engineers design has been completed. The engineering design will mitigate any drainage concerns before construction takes place and should not be a concern.

The Town agrees to accept the final report is the following amendments are made:

- Breakout the roadway widening cost to be from Saskadena Six to 1806 Pomfret Rd and 1806 Pomfret Rd to the Pomfret Elementary School
- Include a provision for the one-way road pilot study prior to design
- Update report and cost estimate to include drainage design
- Update report and cost estimate to include lighting design
- Update other previously mentioned errors in the report

# Appendix G

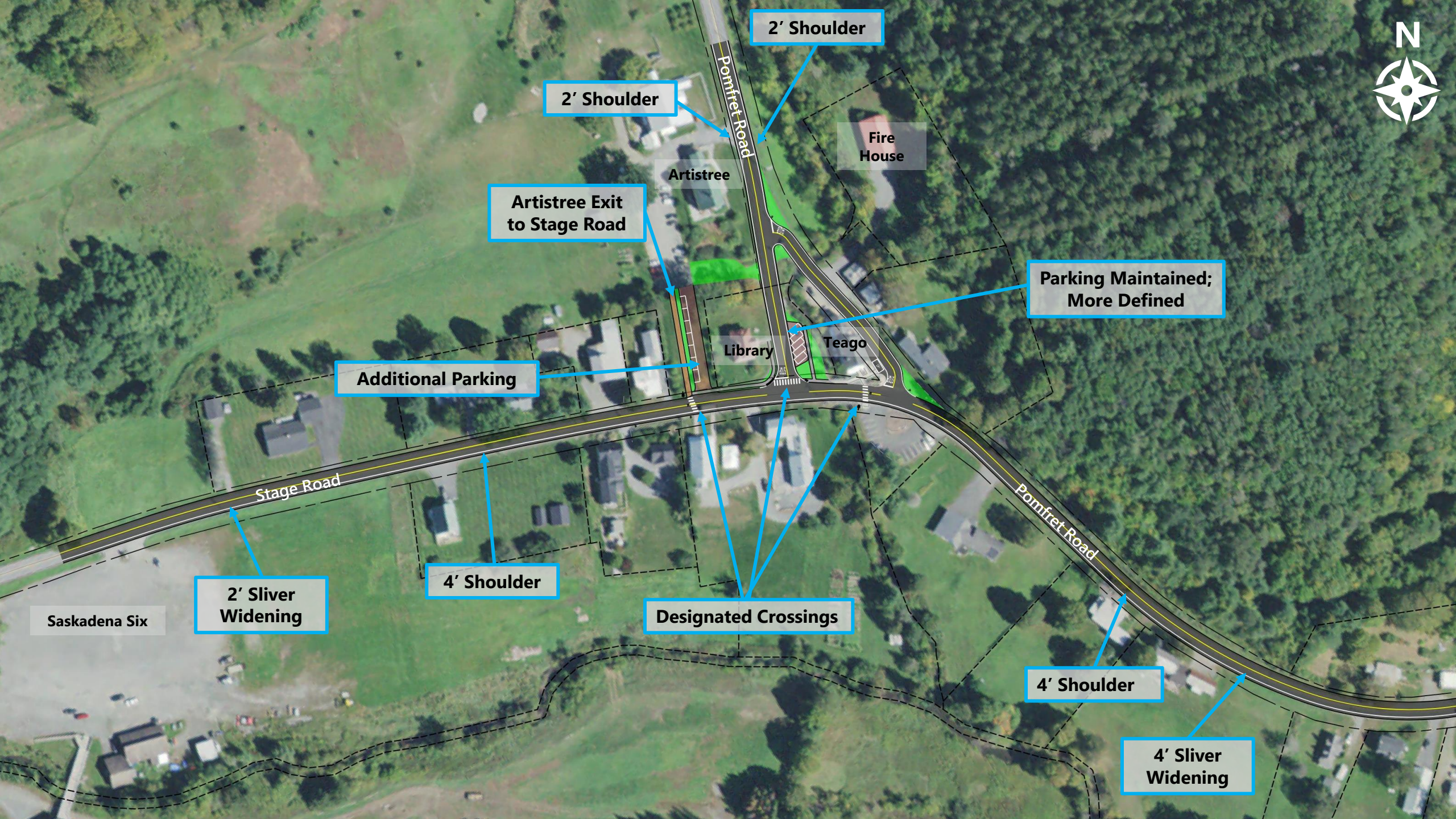
## Alternative Concepts

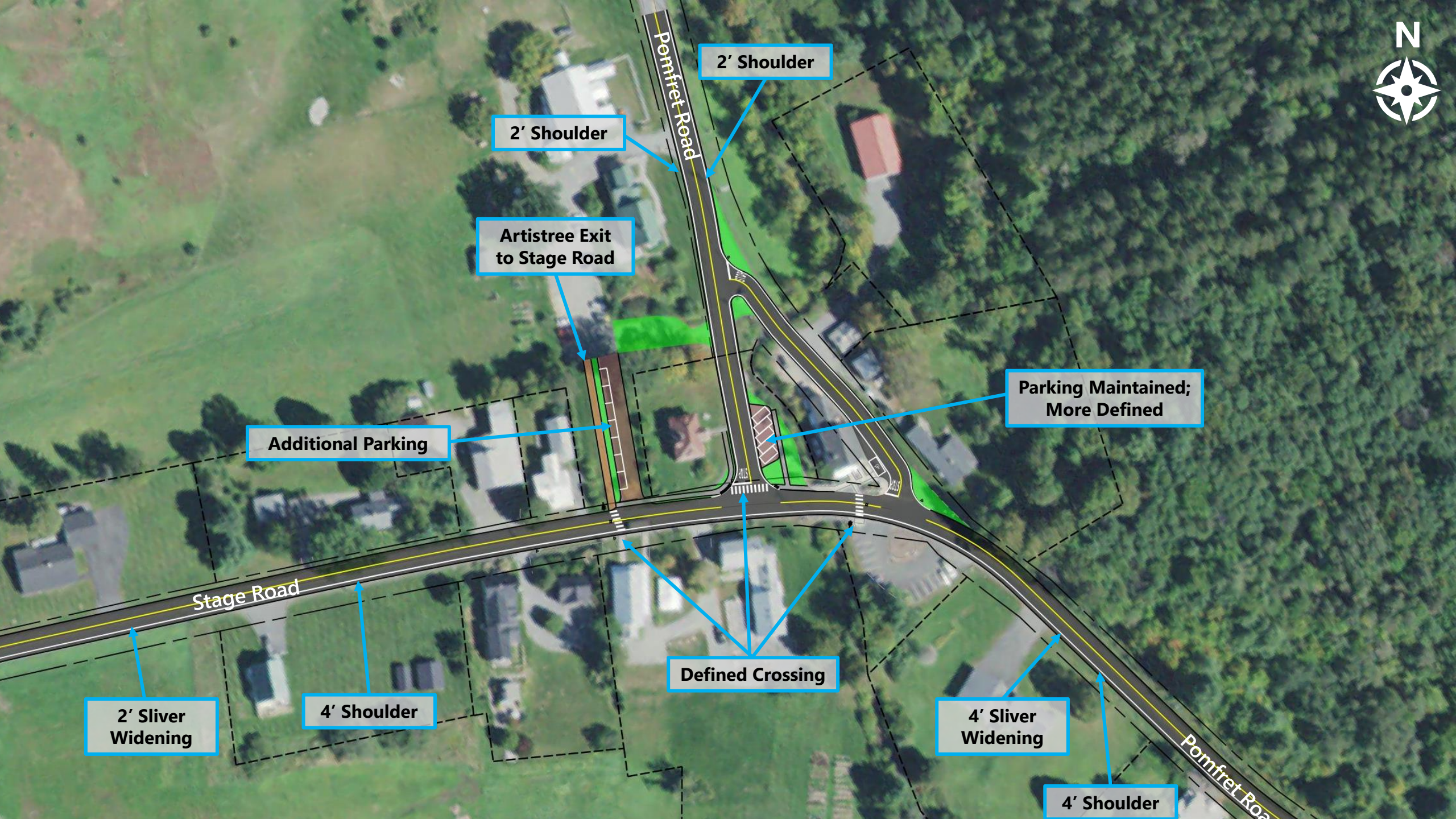
# *Alternative 1*


N
2’ Shoulder
2’ Shoulder
Pomfret Road
Fire House
Artistree
Artistree Exit to Stage Road
4’ Shoulder
Library
Teago
Stage Road
Median
Median
Pomfret Road
Designated Crossings
2’ Sliver Widening
Saskadena Six
Designated Crossings
4’ Shoulder
4’ Sliver Widening


N
Pomfret Road
2′ Shoulder
2′ Shoulder
Artistree Exit
to Stage Road
Parking Maintained;
More Defined
4′ Shoulder
Stage Road
Median
2′ Sliver
Widening
Defined Crossing
Median
4′ Sliver
Widening
Pomfret Road
4′ Shoulder

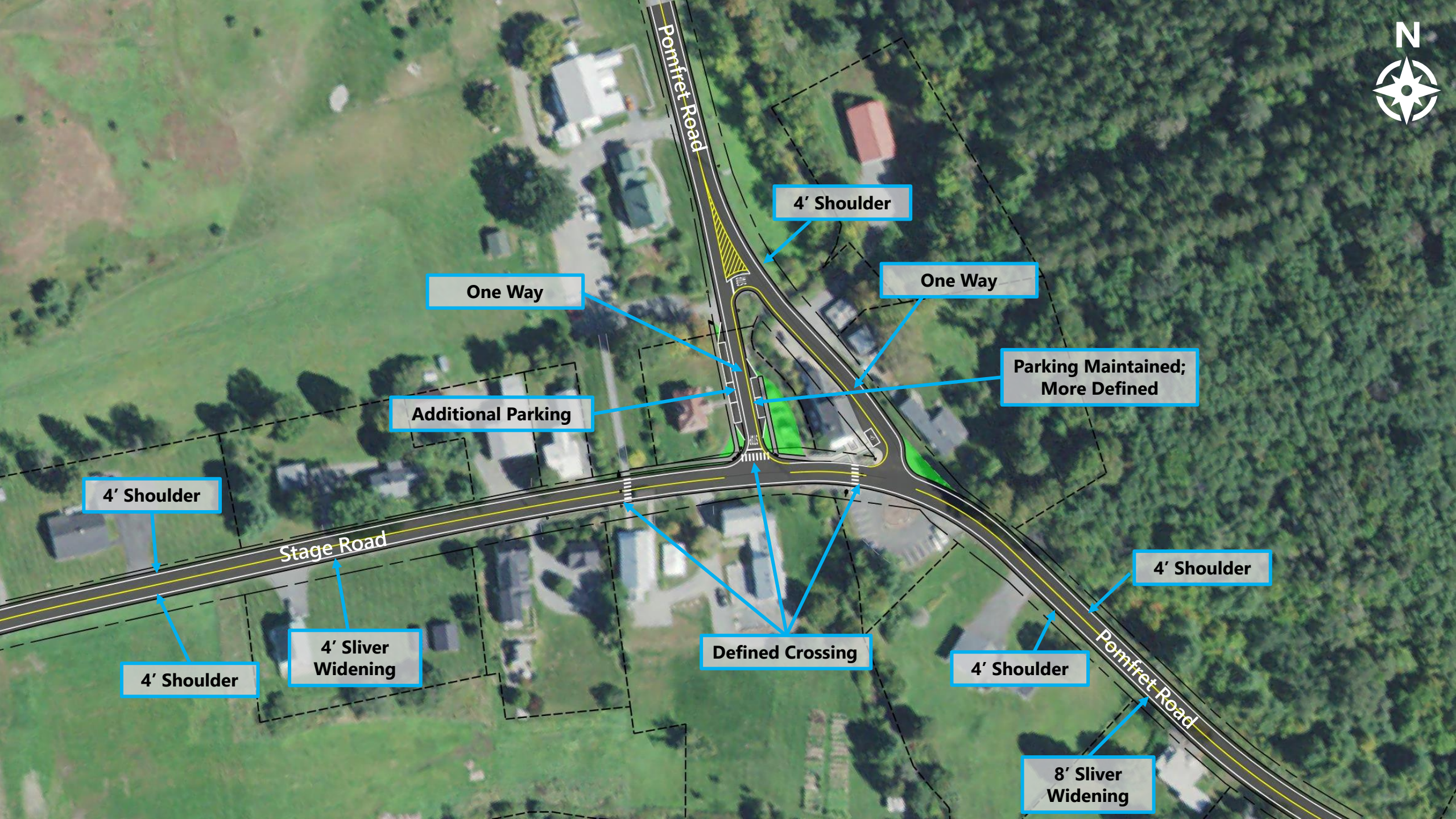
# *Alternative 2*


2′ Shoulder
2′ Shoulder
Pomfret Road
Fire House
Artistree
Artistree Exit to Stage Road
Parking Maintained; More Defined
Library
Teago
Additional Parking
Stage Road
Pomfret Road
2′ Sliver Widening
4′ Shoulder
Designated Crossings
Saskadena Six
4′ Shoulder
4′ Sliver Widening
N

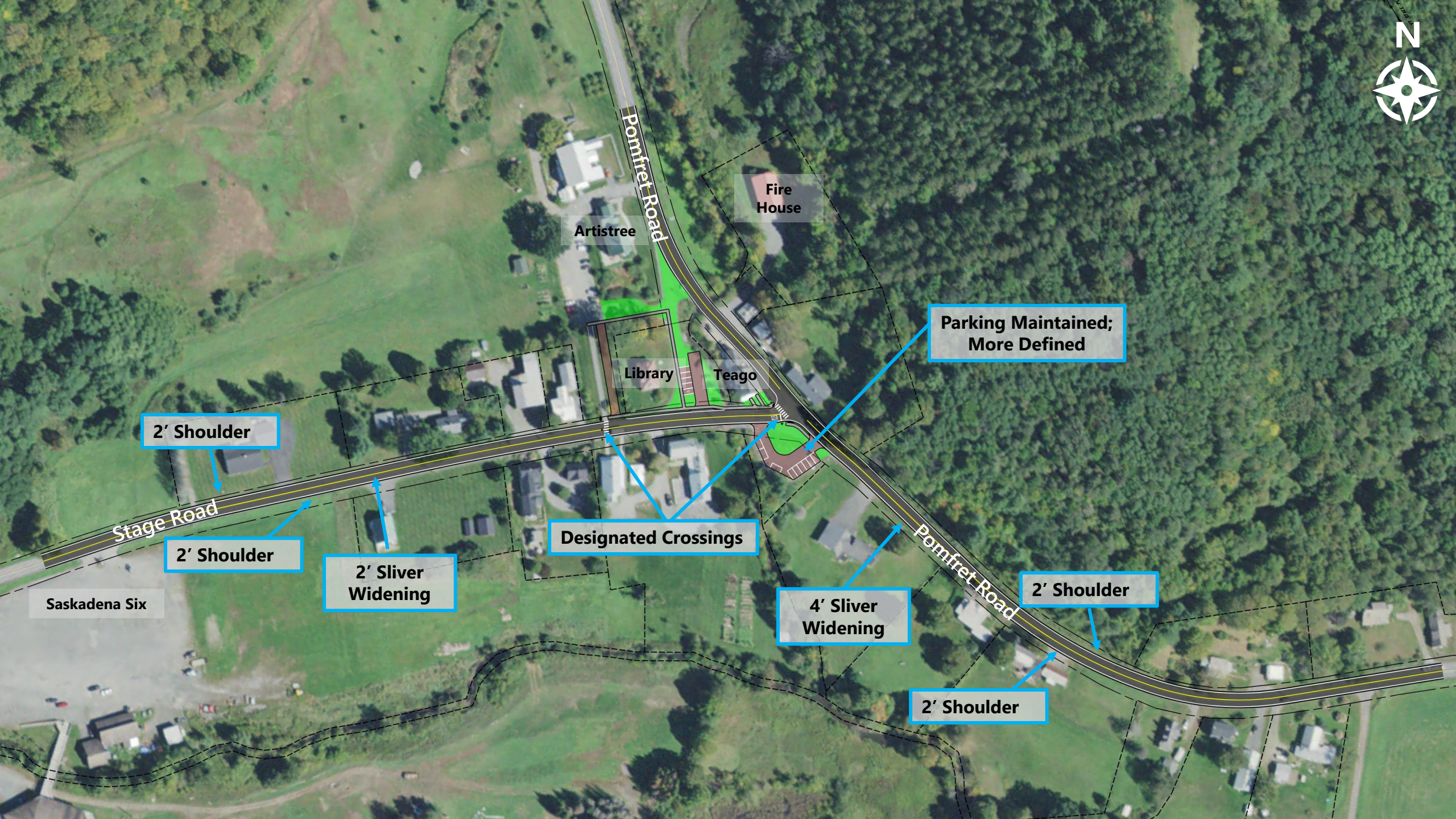

N
Pomfret Road
2′ Shoulder
2′ Shoulder
Artistree Exit
to Stage Road
Parking Maintained;
More Defined
Additional Parking
Stage Road
Defined Crossing
2′ Sliver
Widening
4′ Shoulder
4′ Sliver
Widening
4′ Shoulder
Pomfret Road

# *Alternative 3*


N
Pomfret Road
Fire House
Artistree
One Way
One Way
Library
Teago
4′ Shoulder
Stage Road
4′ Shoulder
4′ Sliver Widening
Designated Crossings
Pomfret Road
4′ Shoulder
8′ Sliver Widening
4′ Shoulder
Saskadena Six


N
Pomfret Road
4′ Shoulder
One Way
One Way
Parking Maintained;
More Defined
Additional Parking
4′ Shoulder
Stage Road
4′ Shoulder
4′ Sliver
Widening
Defined Crossing
4′ Shoulder
Pomfret Road
4′ Shoulder
8′ Sliver
Widening

# *Alternative 4*


N
Pomfret Road
Fire House
Artistree
Library
Teago
Parking Maintained; More Defined
2′ Shoulder
Stage Road
2′ Shoulder
2′ Sliver Widening
Designated Crossings
Saskadena Six
4′ Sliver Widening
Pomfret Road
2′ Shoulder
2′ Shoulder


N
Pomfret Road
Additional Parking
Library Street Closed
Parking Maintained; More Defined
2′ Shoulder
Stage Road
2′ Shoulder
Defined Crossing
2′ Shoulder
2′ Sliver Widening
2′ Shoulder
Pomfret Road
4′ Sliver Widening

# Appendix H

## Alternatives Matrix

# Evaluation Matrix – Cost, Safety and Community Character

| Evaluation Matrix | No Build | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 |
|---|---|---|---|---|---|
| | | Library Street tees into Pomfret Road and Stage Road, Medians on Stage and Pomfret approaches, Artistree exit to Stage Road, Alternating 4' Shoulders on Stage Road | Pomfret Road tees into Library Street, Artistree exit to Stage Road with Parking, 4' Shoulder Southside on Stage Road | One-way Pair for Pomfret Road and Library Street, Parallel Parking both sides Library Street, 4' Shoulders on Stage Road | Library Street closed to traffic, Stage Roads tee into Pomfret Road, 2' Shoulders on Stage Road |
| Cost | | | | | |
| Relative Cost Scale | $0 | $758,832 | $765,414 | $949,898 | $784,479 |
| Safety & Mobility | | | | | |
| Pedestrian Access & Safety | No Improvement | Improved | Improved | Improved | Improved |
| Bicyclist Access & Safety | No Improvement | Slighty Improved | Slightly Improved | Improved | Slightly Improved |
| Vehicle Safety | No Improvement | Improved | Improved | Improved | Improved |
| Community Character | | | | | |
| Aesthetics | No Improvement | Improved | Improved | Improved | Improved |
| Satisfies Purpose & Need | No | Yes | Yes | Yes | Yes |

# Evaluation Matrix – Anticipated Impacts

| Evaluation Matrix | No Build | Alternative 1<br>Library Street tees into Pomfret Road and Stage Road, Medians on Stage and Pomfret approaches, Aritstree exit to Stage Road, Alternating 4' Shoulders on Stage Road | Alternative 2<br>Pomfret Road tees into Library Street, Artistree exit to Stage Road with Parking, 4' Shoulder Southside on Stage Road | Alternative 3<br>One-way Pair for Pomfret Road and Library Street, Parallel Parking both sides Library Street, 4' Shoulders on Stage Road | Alternative 4<br>Library Street closed to traffic, Stage Roads tee into Pomfret Road, 2' Shoulders on Stage Road |
|---|---|---|---|---|---|
| Impacts | | | | | |
| ROW Impacts | None | Moderate - Library Street and Aristree Driveway reconfiguration | Moderate - Library Street and Aristree Driveway reconfiguration | Minor - Library Street | Moderate - Library Street and Aristree Driveway Reconfiguration |
| Utility Impacts | None | Moderate | Moderate | High | Moderate |
| Agricultural Lands | None | None | None | None | None |
| Archaeological | None | Minor | Minor | Minor | Minor |
| Historic | None | Required | Required | Required | Required |
| Fish & Wildlife | None | None | None | None | None |
| Rare Threatened & Endangered Species | None | None | None | None | None |
| Public Lands - Sect. 4(f) | None | Required - Library | Required - Library | Required - Library | Required - Library |
| Wetlands | None | None | None | None | None |
| New Impervious Surfaces | None | Minor | Minor | Moderate | Minor |

# Evaluation Matrix – Anticipated Permitting

| Evaluation Matrix | No Build | Alternative 1 | Alternative 2 | Alternative 3 | Alternative 4 |
|---|---|---|---|---|---|
| | | Library Street tees into Pomfret Road and Stage Road, Medians on Stage and Pomfret approaches, Artistree exit to Stage Road, Alternating 4' Shoulders on Stage Road | Pomfret Road tees into Library Street, Artistree exit to Stage Road with Parking, 4' Shoulder Southside on Stage Road | One-way Pair for Pomfret Road and Library Street, Parallel Parking both sides Library Street, 4' Shoulders on Stage Road | Library Street closed to traffic, Stage Roads tee into Pomfret Road, 2' Shoulders on Stage Road |
| Permitting | | | | | |
| Act 250 | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Section 404 - Wetlands (USACOE) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Section 401 Water Quality Certification | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| State Wetlands Permit | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Stream Alteration Permit | Not Applicable | Potential | Potential | Potential | Potential |
| Construction Phase Storm Water Discharge Permit (General Permit 3-9020) | Not Applicable | Not Anticipated | Not Anticipated | Not Anticipated | Not Anticipated |
| Operational Phase Storm Water Discharge Permit (General Permit 3-9050) | Not Applicable | Not Anticipated | Not Anticipated | Potential | Not Anticipated |
| Lakes & Ponds | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Rare, Threatened, and Endangered Species | Not Applicable | Not Anticipated | Not Anticipated | Not Anticipated | Not Anticipated |
| Section 1111 Permit | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

# Appendix I

## Alternatives Concepts Cost Estimate

# Computations

Project: Pomfret Village Scoping Study
Project #: 58786.00
Location: South Pomfret, VT
Sheet: 1 of 5
Calculated by: SL
Date: 2/22/23
Checked by:
Date:
Title: Conceptual Cost Estimate Calculations - Alt 1

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 156 | CY | $68.95 | $10,756 | 6" depth |
| Coarse-Milling | 9495 | SY | $2.26 | $21,458 | |
| Aggregate Surface Course | 64 | CY | $58.12 | $3,733 | 6" depth |
| Pavement | 2248 | TON | $90.35 | $203,104 | 3" depth |
| Crushed Gravel, Fine Graded | 638 | CY | $84.58 | $53,945 | 1' depth |
| Dense Graded Crushed Stone | 759 | CY | $70.10 | $53,195 | 1' depth |
| **Sidewalk** | | | | | |
| Vertical Granite Curb | 263 | LF | $64.61 | $17,008 | |
| Sidewalk, 5" | 170 | SY | $124.10 | $21,079 | |
| Detectable Warning Surface | 40 | SF | $42.07 | $1,683 | |
| **Line Striping** | | | | | |
| 4" White Line | 4442 | LF | $2.37 | $10,528 | |
| 4" Yellow Line | 3062 | LF | $3.75 | $11,484 | |
| Stop Bars | 47 | LF | $14.35 | $674 | |
| Letters and Symbols | 13 | EACH | $274.44 | $3,568 | |
| Crosswalks | 100 | LF | $25.88 | $2,588 | |
| **Landscaping** | | | | | |
| Remove and Reset Fence | 40 | LF | $63 | $2,511 | |
| Seed | 17 | LB | $14.07 | $242 | application rate of 120 lb/acre |
| Topsoil | 77 | CY | $50.47 | $3,897 | 4" depth |
| Street Light Assembly | 2 | EACH | $7,256.31 | $14,513 | |
| **Signing** | | | | | |
| Traffic Sign, Type A | 20 | SF | $23.61 | $472 | est 5 SF/EACH avg |
| Square Tube Sign Post and Anchor | 135 | LF | $13.61 | $1,837 | est 15 LF/EACH |
| Removing Signs | 7 | EACH | $32.65 | $229 | |
| Resetting Signs | 6 | EACH | $69.66 | $418 | |
| | | | **Subtotal** | $438,924 | |
| 15% Contingency | | | | $65,839 | |
| 15% Mobilization & Traffic Control | | | | $65,839 | |
| | | | **Subtotal** | $570,601 | |
| ROW | | LS | | $30,000 | |
| 8% Local Project Manager | | | | $45,648 | |
| 12% Engineering and Design | | | | $68,472 | |
| 15% Construction Inspection | | | | $85,590 | |
| | | | **Total** | $800,311 | |
| | | | **Round** | $689 | |
| | | | **Rounded Total** | **$801,000** | |

# Computations

| | | | |
|---|---|---|---|
| **Project:** | **Pomfret Village Scoping Study** | **Project #:** | **58786.00** |
| **Location:** | **South Pomfret, VT** | **Sheet:** | **2 of 5** |
| **Calculated by:** | **SL** | **Date:** | **2/22/23** |
| **Checked by:** | **RO** | **Date:** | |
| **Title:** | **Conceptual Cost Estimate Calculations - Alt 2** | | |

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 185 | CY | $68.95 | $12,758 | 6" depth |
| Coarse-Milling | 9444 | SY | $2.26 | $21,343 | |
| Aggregate Surface Course | 86 | CY | $58.12 | $4,974 | 6" depth |
| Pavement | 2275 | TON | $90.35 | $205,509 | 3" depth |
| Crushed Gravel, Fine Graded | 673 | CY | $84.58 | $56,884 | 1' depth |
| Dense Graded Crushed Stone | 794 | CY | $70.10 | $55,631 | 1' depth |
| | | | | | |
| **Sidewalk** | | | | | |
| Aggregate Surface Course, Trail | 23 | CY | $31.87 | $741 | 6" depth |
| Vertical Granite Curb | 148 | LF | $64.61 | $9,540 | |
| Sidewalk, 5" | 166 | SY | $124.10 | $20,623 | |
| Detectable Warning Surface | 32 | SF | $42.07 | $1,346 | |
| | | | | | |
| **Line Striping** | | | | | |
| 4" White Line | 4469 | LF | $2.37 | $10,593 | |
| 4" Yellow Line | 3147 | LF | $3.75 | $11,803 | |
| Stop Bars | 57 | LF | $14.35 | $818 | |
| Letters and Symbols | 13 | EACH | $274.44 | $3,568 | |
| Crosswalks | 82 | LF | $25.88 | $2,122 | |
| | | | | | |
| **Landscaping** | | | | | |
| Remove and Reset Fence | 40 | LF | $63 | $2,511 | |
| Seed | 22 | LB | $14.07 | $309 | application rate of 120 lb/acre |
| Topsoil | 99 | CY | $50.47 | $4,974 | 4" depth |
| Street Light Assembly | 2 | EACH | $7,256.31 | $14,513 | |
| | | | | | |
| **Signing** | | | | | |
| Traffic Sign, Type A | 25 | SF | $23.61 | $590 | est 5 SF/EACH avg |
| Square Tube Sign Post and Anchor | 75 | LF | $13.61 | $1,021 | est 15 LF/EACH |
| Removing Signs | 7 | EACH | $32.65 | $229 | |
| Resetting Signs | 7 | EACH | $69.66 | $488 | |
| | | | | | |
| | | | **Subtotal** | $442,887 | |
| 15% Contingency | | | | $66,433 | |
| 15% Mobilization & Traffic Control | | | | $66,433 | |
| | | | **Subtotal** | $575,753 | |
| | | | | | |
| ROW | | LS | | $30,000 | |
| 8% Local Project Manager | | | | $46,060 | |
| 12% Engineering and Design | | | | $69,090 | |
| 15% Construction Inspection | | | | $86,363 | |
| | | | **Total** | $807,267 | |
| | | | **Round** | $733 | |
| | | | **Rounded Total** | **$808,000** | |

# Computations

| | | | |
|---|---|---|---|
| **Project:** | **Pomfret Village Scoping Study** | **Project #:** | **58786.00** |
| **Location:** | **South Pomfret, VT** | **Sheet:** | **3 of 5** |
| **Calculated by:** | **SL** | **Date:** | **2/22/23** |
| **Checked by:** | **RO** | **Date:** | |
| **Title:** | **Conceptual Cost Estimate Calculations - Alt 3** | | |

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 78 | CY | $68.95 | $5,389 | 6" depth |
| Coarse-Milling | 10589 | SY | $2.26 | $23,931 | |
| Pavement | 2824 | TON | $90.35 | $255,111 | 3" depth |
| Crushed Gravel, Fine Graded | 1024 | CY | $84.58 | $86,600 | 1' depth |
| Dense Graded Crushed Stone | 1212 | CY | $70.10 | $84,976 | 1' depth |
| **Sidewalk** | | | | | |
| Vertical Granite Curb | 226 | LF | $64.61 | $14,617 | |
| Sidewalk, 5" | 214 | SY | $124.10 | $26,616 | |
| Detectable Warning Surface | 32 | SF | $42.07 | $1,346 | |
| **Line Striping** | | | | | |
| 4" White Line | 5965 | LF | $2.37 | $14,138 | |
| 4" Yellow Line | 3018 | LF | $3.75 | $11,317 | |
| 8" Yellow Line | 520 | LF | $5.33 | $2,772 | |
| Stop Bars | 36 | LF | $14.35 | $517 | |
| Letters and Symbols | 9 | EACH | $274.44 | $2,470 | |
| Crosswalks | 78 | LF | $25.88 | $2,019 | |
| **Landscaping** | | | | | |
| Remove and Reset Fence | 40 | LF | $63 | $2,511 | |
| Seed | 7 | LB | $14.07 | $96 | application rate of 120 lb/acre |
| Topsoil | 31 | CY | $50.47 | $1,546 | 4" depth |
| Street Light Assembly | 2 | EACH | $7,256.31 | $14,513 | |
| **Signing** | | | | | |
| Traffic Sign, Type A | 65 | SF | $23.61 | $1,535 | est 5 SF/EACH avg |
| Square Tube Sign Post and Anch | 120 | LF | $13.61 | $1,633 | est 15 LF/EACH |
| Removing Signs | 6 | EACH | $32.65 | $196 | |
| Resetting Signs | 2 | EACH | $69.66 | $139 | |
| | | | **Subtotal** | $553,988 | |
| 15% Contingency | | | | $83,098 | |
| 15% Mobilization & Traffic Control | | | | $83,098 | |
| | | | **Subtotal** | $720,185 | |
| ROW | | LS | | $30,000 | |
| 8% Local Project Manager | | | | $57,615 | |
| 12% Engineering and Design | | | | $86,422 | |
| 15% Construction Inspection | | | | $108,028 | |
| | | | **Total** | $1,002,250 | |
| | | | **Round** | $750 | |
| | | | **Rounded Total** | **$1,003,000** | |

# Computations

| | | | |
|---|---|---|---|
| **Project:** | **Pomfret Village Scoping Study** | **Project #:** | **58786.00** |
| **Location:** | **South Pomfret, VT** | **Sheet:** | **4 of 5** |
| **Calculated by:** | **SL** | **Date:** | **2/22/23** |
| **Checked by:** | **RO** | **Date:** | |
| **Title:** | **Conceptual Cost Estimate Calculations - Alt 4** | | |

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 273 | CY | $68.95 | $18,828 | 6" depth |
| Coarse-Milling | 8789 | SY | $2.26 | $19,864 | |
| Aggregate Surface Course | 172 | CY | $58.12 | $9,996 | 6" depth |
| Pavement | 2112 | TON | $90.35 | $190,797 | 3" depth |
| Crushed Gravel, Fine Graded | 621 | CY | $84.58 | $52,507 | 1' depth |
| Dense Graded Crushed Stone | 742 | CY | $70.10 | $52,003 | 1' depth |
| | | | | | |
| **Sidewalk** | | | | | |
| Solid Rock Excavation | 8 | CY | $71.92 | $579 | 5" depth |
| Vertical Granite Curb | 263 | LF | $64.61 | $16,977 | |
| Removal of Existing Curb | 87 | LF | $8.97 | $777 | |
| Sidewalk, 5" | 366 | SY | $124.10 | $45,462 | |
| Detectable Warning Surface | 24 | SF | $42.07 | $1,010 | |
| | | | | | |
| **Line Striping** | | | | | |
| 4" White Line | 5936 | LF | $2.37 | $14,068 | |
| 4" Yellow Line | 2968 | LF | $3.75 | $11,130 | |
| Stop Bars | 11 | LF | $14.35 | $158 | |
| Letters and Symbols | 5 | EACH | $274.44 | $1,372 | |
| Crosswalks | 48 | LF | $25.88 | $1,242 | |
| | | | | | |
| **Landscaping** | | | | | |
| Seed | 34 | LB | $14.07 | $471 | application rate of 120 lb/acre |
| Topsoil | 150 | CY | $50.47 | $7,577 | 4" depth |
| Street Light Assembly | 1 | EACH | $7,256.31 | $7,256 | |
| | | | | | |
| **Signing** | | | | | |
| Traffic Sign, Type A | 20 | SF | $23.61 | $472 | est 5 SF/EACH avg |
| Square Tube Sign Post and Anchor | 90 | LF | $13.61 | $1,225 | est 15 LF/EACH |
| Removing Signs | 14 | EACH | $32.65 | $457 | |
| Resetting Signs | 2 | EACH | $69.66 | $139 | |
| | | | | | |
| | | | **Subtotal** | $454,368 | |
| 15% Contingency | | | | $68,155 | |
| 15% Mobilization & Traffic Control | | | | $68,155 | |
| | | | **Subtotal** | $590,679 | |
| | | | | | |
| ROW | | LS | | $30,000 | |
| 8% Local Project Manager | | | | $47,254 | |
| 12% Engineering and Design | | | | $70,881 | |
| 15% Construction Inspection | | | | $88,602 | |
| | | | **Total** | $827,417 | |
| | | | **Round** | $583 | |
| | | | **Rounded Total** | **$828,000** | |

# Appendix J

## Preferred Concept Plans




SCALE 1" = 20'-0"
20 0 20

| | |
|---|---|
| PROJECT NAME: | SOUTH POMFRET VILLAGE |
| PROJECT NUMBER: | 58786.00 |
| FILE NAME: turning movements.dgn | PLOT DATE: 1/25/2023 |
| PROJECT LEADER: K. SENTOFF | DRAWN BY: R. O'BRIEN |
| DESIGNED BY: R. O'BRIEN | CHECKED BY: ------ |
| PREFERRED ALTERNATIVE SHEET (3 OF 3) | SHEET 3 OF 5 |




PROJECT NAME: SOUTH POMFRET VILLAGE
PROJECT NUMBER: 58786.00

FILE NAME: 58786.00_bdr.dgn
PROJECT LEADER: K. SENTOFF
DESIGNED BY: R. O'BRIEN
PREFERRED ALTERNATIVE SHEET (1 OF 3)

PLOT DATE: 2/22/2023
DRAWN BY: R. O'BRIEN
CHECKED BY: K. SENTOFF
SHEET 1 OF 5

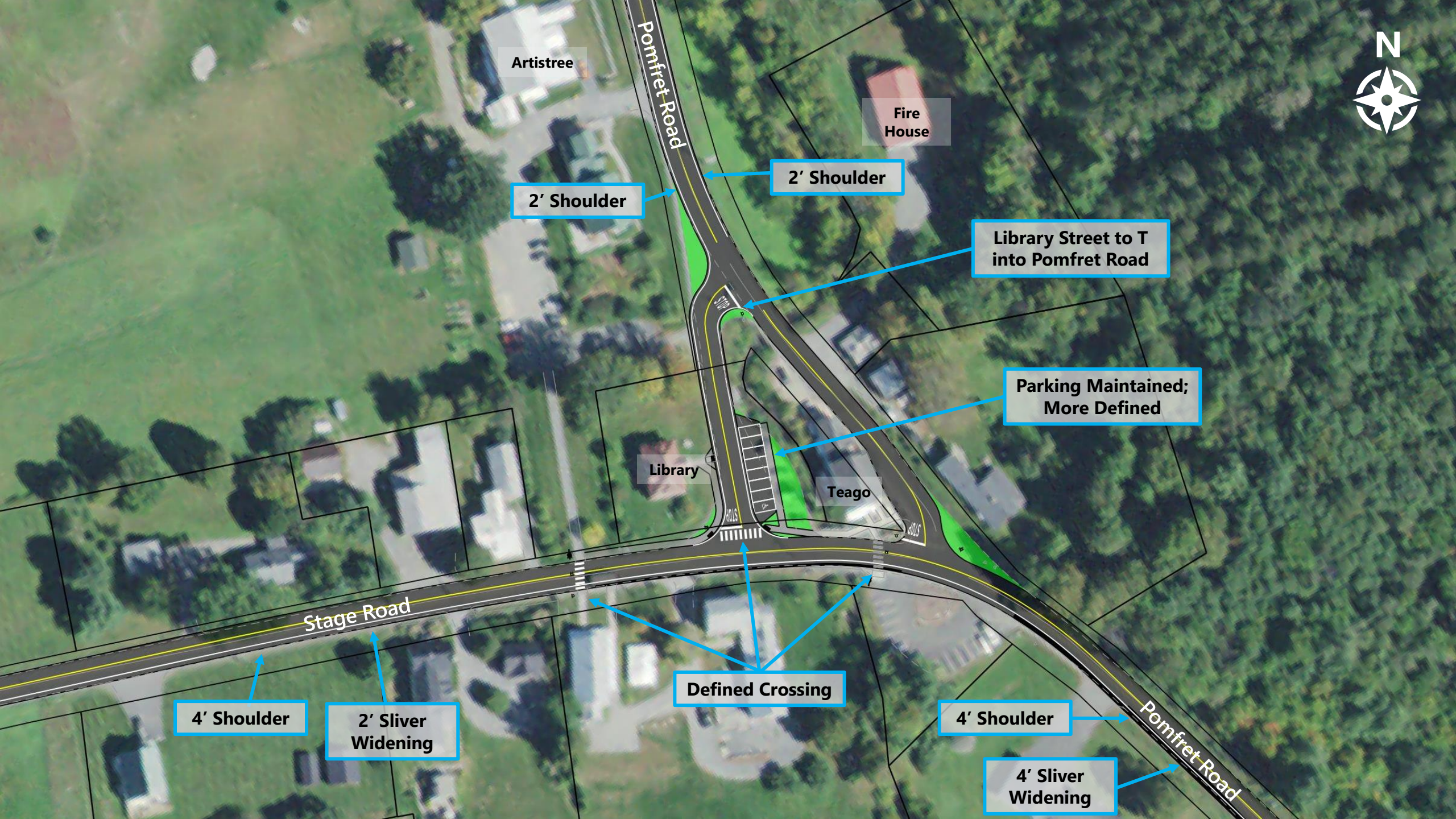



SCALE 1" = 120'-0"
120 0 120

vhb

| | |
|---|---|
| PROJECT NAME: | SOUTH POMFRET VILLAGE |
| PROJECT NUMBER: | 58786.00 |
| FILE NAME: 58786.00_bdr.dgn | PLOT DATE: 2/22/2023 |
| PROJECT LEADER: K. SENTOFF | DRAWN BY: R. O'BRIEN |
| DESIGNED BY: R. O'BRIEN | CHECKED BY: K. SENTOFF |
| PREFERRED ALTERNATIVE SHEET (2 OF 3) | SHEET 2 OF 5 |


Artistree
Pomfret Road
2′ Shoulder
Fire House
2′ Shoulder
Library Street to T into Pomfret Road
Parking Maintained; More Defined
Library
Teago
Stage Road
4′ Shoulder
2′ Sliver Widening
Defined Crossing
4′ Shoulder
Pomfret Road
4′ Sliver Widening
Saskadena Six


N
Artistree
Pomfret Road
Fire House
2’ Shoulder
2’ Shoulder
Library Street to T into Pomfret Road
Parking Maintained; More Defined
Library
Teago
STOP
STOP
Stage Road
Defined Crossing
4’ Shoulder
2’ Sliver Widening
4’ Shoulder
Pomfret Road
4’ Sliver Widening

# Appendix K

## Preferred Concept Cost Estimate

# Computations

| | | | |
|---|---|---|---|
| **Project:** | **Pomfret Village Scoping Study** | **Project #:** | **58786.00** |
| **Location:** | **South Pomfret, VT** | **Sheet:** | **1 of 5** |
| **Calculated by:** | **SL** | **Date:** | **2/22/23** |
| **Checked by:** | | **Date:** | |
| **Title:** | **Stage Road/Pomfret Road from Saskadena Six to 1806** | | |

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 0 | CY | $68.95 | $0 | 6" depth |
| Coarse-Milling | 0 | SY | $23.69 | $0 | |
| Pavement | 417 | TON | $128.47 | $53,517 | 3" depth |
| Crushed Gravel, Fine Graded | 421 | CY | $84.58 | $35,582 | 1' depth |
| Dense Graded Crushed Stone | 521 | CY | $70.10 | $36,555 | 1' depth |
| | | | | | |
| **Line Striping** | | | | | |
| 4" White Line | 2356 | LF | $2.54 | $5,985 | |
| 4" Yellow Line | 2358 | LF | $2.49 | $5,872 | |
| Stop Bars | 0 | LF | $14.56 | $0 | |
| Letters and Symbols | 0 | EACH | $188.42 | $0 | |
| Crosswalks | 0 | LF | $27.97 | $0 | |
| | | | | | |
| | | | **Subtotal** | $137,511 | |
| 25% Contingency | | | | $34,378 | |
| 15% Mobilization & Traffic Control | | | | $20,627 | |
| | | | **Subtotal** | $192,515 | |
| | | | | | |
| ROW | | LS | | $500 | |
| 8% Local Project Manager | | | | $15,401 | |
| 12% Engineering and Design | | | | $23,102 | |
| 15% Construction Inspection | | | | $28,877 | |
| | | | **Total** | $260,395 | |
| | | | **Round** | $605 | |
| | | | **Rounded Total** | **$261,000** | |

# Computations

| | | | |
|---|---|---|---|
| **Project:** | **Pomfret Village Scoping Study** | **Project #:** | **58786.00** |
| **Location:** | **South Pomfret, VT** | **Sheet:** | **2 of 5** |
| **Calculated by:** | **SL** | **Date:** | **2/22/23** |
| **Checked by:** | | **Date:** | |
| **Title:** | **Pomfret Road from 1806 to School** | | |

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 0 | CY | $68.95 | $0 | 6" depth |
| Coarse-Milling | 0 | SY | $23.69 | $0 | |
| Pavement | 667 | TON | $128.47 | $85,736 | 3" depth |
| Crushed Gravel, Fine Graded | 659 | CY | $84.58 | $55,749 | 1' depth |
| Dense Graded Crushed Stone | 1086 | CY | $70.10 | $76,148 | 1' depth |
| | | | | | |
| **Line Striping** | | | | | |
| 4" White Line | 4074 | LF | $2.54 | $10,348 | |
| 4" Yellow Line | 4082 | LF | $2.49 | $10,165 | |
| Stop Bars | 0 | LF | $14.56 | $0 | |
| Letters and Symbols | 0 | EACH | $188.42 | $0 | |
| Crosswalks | 0 | LF | $27.97 | $0 | |
| | | | | | |
| | | | **Subtotal** | $238,145 | |
| 25% Contingency | | | | $59,536 | |
| 15% Mobilization & Traffic Control | | | | $35,722 | |
| | | | **Subtotal** | $333,402 | |
| | | | | | |
| ROW | | LS | | $500 | |
| 8% Local Project Manager | | | | $26,672 | |
| 12% Engineering and Design | | | | $40,008 | |
| 15% Construction Inspection | | | | $50,010 | |
| | | | **Total** | $450,593 | |
| | | | **Round** | $407 | |
| | | | **Rounded Total** | **$451,000** | |

# Computations

| | | | |
|---|---|---|---|
| **Project:** | **Pomfret Village Scoping Study** | **Project #:** | **58786.00** |
| **Location:** | **South Pomfret, VT** | **Sheet:** | **3 of 5** |
| **Calculated by:** | **SL** | **Date:** | **2/22/23** |
| **Checked by:** | | **Date:** | |
| **Title:** | **Library Street Improvements** | | |

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 67 | CY | $68.95 | $4,620 | 6" depth |
| Coarse-Milling | 865 | SY | $23.69 | $20,489 | |
| Pavement | 173 | TON | $128.47 | $22,228 | 3" depth |
| Crushed Gravel, Fine Graded | 27 | CY | $84.58 | $2,261 | 1' depth |
| Dense Graded Crushed Stone | 27 | CY | $70.10 | $1,874 | 1' depth |
| **Sidewalk** | | | | | |
| Vertical Granite Curb, Mountable | 438 | LF | $95.00 | $41,588 | |
| Sidewalk, 5" | 208 | SY | $135.31 | $28,108 | |
| Detectable Warning Surface | 30 | SF | $56.27 | $1,688 | |
| **Line Striping** | | | | | |
| 4" White Line | 838 | LF | $2.54 | $2,130 | |
| 4" Yellow Line | 210 | LF | $2.49 | $523 | |
| Stop Bars | 40 | LF | $14.56 | $575 | |
| Letters and Symbols | 9 | EACH | $188.42 | $1,696 | |
| Crosswalks | 120 | LF | $27.97 | $3,356 | |
| **Landscaping** | | | | | |
| Remove and Reset Utility Pole | 2 | EACH | | | Work to be done by Utility Company |
| Seed | 4 | LB | $20.75 | $83 | application rate of 120 lb/acre |
| Topsoil | 18 | CY | $66.73 | $1,195 | 4" depth |
| Street Light Assembly | 1 | EACH | $12,035.23 | $12,035 | |
| **Signing** | | | | | |
| Traffic Sign, Type A | 20 | SF | $30.39 | $608 | est 5 SF/EACH avg |
| Square Tube Sign Post and Anchor | 30 | LF | $20.96 | $629 | est 15 LF/EACH |
| Removing Signs | 3 | EACH | $31.64 | $95 | |
| Resetting Signs | 3 | EACH | $69.66 | $209 | |
| | | | **Subtotal** | $145,989 | |
| 25% Contingency | | | | $36,497 | |
| 15% Mobilization & Traffic Control | | | | $21,898 | |
| | | | **Subtotal** | $204,385 | |
| ROW | | LS | | $5,000 | |
| 8% Local Project Manager | | | | $16,351 | |
| 12% Engineering and Design | | | | $24,526 | |
| 15% Construction Inspection | | | | $30,658 | |
| | | | **Total** | $280,920 | |
| | | | **Round** | $80 | |
| | | | **Rounded Total** | **$281,000** | |

# Computations

Project: Pomfret Village Scoping Study
Location: South Pomfret, VT
Calculated by: SL
Checked by:
Title: Pomfret Road (north segment) (Teago and above)

Project #: 58786.00
Sheet: 4 of 5
Date: 2/22/23
Date:

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Roadway** | | | | | |
| Excavation of Pavement | 23 | CY | $68.95 | $1,558 | 6" depth |
| Coarse-Milling | 805 | SY | $23.69 | $19,060 | |
| Pavement | 142 | TON | $128.47 | $18,223 | 3" depth |
| Crushed Gravel, Fine Graded | 6 | CY | $84.58 | $508 | 1' depth |
| Dense Graded Crushed Stone | 6 | CY | $70.10 | $421 | 1' depth |
| **Sidewalk** | | | | | |
| Vertical Granite Curb, Mountable | 405 | LF | $95.00 | $38,513 | |
| Sidewalk, 5" | 0 | SY | $135.31 | $0 | |
| Detectable Warning Surface | 0 | SF | $56.27 | $0 | |
| **Line Striping** | | | | | |
| 4" White Line | 525 | LF | $2.54 | $1,333 | |
| 4" Yellow Line | 505 | LF | $2.49 | $1,257 | |
| Stop Bars | 20 | LF | $14.56 | $291 | |
| Letters and Symbols | 4 | EACH | $188.42 | $754 | |
| Crosswalks | 48 | LF | $27.97 | $1,343 | |
| **Landscaping** | | | | | |
| Remove and Reset Utility Pole | 0 | EACH | | | |
| Seed | 3 | LB | $20.75 | $62 | application rate of 120 lb/acre |
| Topsoil | 13 | CY | $66.73 | $895 | 4" depth |
| Street Light Assembly | 1 | EACH | $12,035.23 | $12,035 | |
| **Signing** | | | | | |
| Traffic Sign, Type A | 10 | SF | $30.39 | $304 | est 5 SF/EACH avg |
| Square Tube Sign Post and Anchor | 30 | LF | $20.96 | $629 | est 15 LF/EACH |
| Removing Signs | 4 | EACH | $31.64 | $127 | |
| Resetting Signs | 2 | EACH | $69.66 | $139 | |
| | | | **Subtotal** | $97,450 | |
| 25% Contingency | | | | $24,362 | |
| 15% Mobilization & Traffic Control | | | | $14,617 | |
| | | | **Subtotal** | $136,429 | |
| ROW | | LS | | $500 | |
| 8% Local Project Manager | | | | $10,914 | |
| 12% Engineering and Design | | | | $16,372 | |
| 15% Construction Inspection | | | | $20,464 | |
| | | | **Total** | $184,680 | |
| | | | **Round** | $320 | |
| | | | **Rounded Total** | **$185,000** | |

# Computations

| | | | |
|---|---|---|---|
| **Project:** | **Pomfret Village Scoping Study** | **Project #:** | **58786.00** |
| **Location:** | **South Pomfret, VT** | **Sheet:** | **5 of 5** |
| **Calculated by:** | **SL** | **Date:** | **3/16/23** |
| **Checked by:** | | **Date:** | |
| **Title:** | **Drainage at Library and Stage** | | |

| | Quantity | Unit | Cost/Unit | Total Cost | |
|---|---|---|---|---|---|
| **Drainage** | | | | | |
| Trench Excavation of Earth | 181 | CY | $20.00 | $3,622 | 6' depth |
| Granular Backfill for Structures | 125 | CY | $58.50 | $7,313 | |
| Catch Basin | 5 | EACH | $5,900.00 | $29,500 | |
| Manhole | 2 | EACH | $6,500.00 | $13,000 | |
| Stormwater Pipe | 160 | LF | $185.00 | $29,600 | 15" RCP |
| | | | **Subtotal** | $83,035 | |
| 25% Contingency | | | | $20,759 | |
| 15% Mobilization & Traffic Control | | | | $12,455 | |
| | | | **Subtotal** | $116,249 | |
| ROW | | LS | | $5,000 | |
| 8% Local Project Manager | | | | $9,300 | |
| 12% Engineering and Design | | | | $13,950 | |
| 15% Construction Inspection | | | | $17,437 | |
| | | | **Total** | $161,936 | |
| | | | **Round** | $64 | |
| | | | **Rounded Total** | **$162,000** | |

# Appendix L

## Additional Environmental Resources

MAR 3 0 1999

OCT 0 4 1999

# VERMONT UNDERGROUND STORAGE TANK FORM

**Notification and Permit Application (if applicable)**

Read instruction sheet carefully before completing this Form. Please type or print in ink all items except for the signature". For additional information call the Vermont Underground Storage Tank Program at **(802) 241-3888.**

## I. OWNERSHIP OF TANKS

Name Stage Road Enterprises INC
Mailing DBA TEAGO GENERAL STORE
Address PO BOX 127
Town/
City So Pomfret State VT
Zip 05067

Phone (802) 457-1626

## II. OPERATOR OF TANKS (if different than owner)

Name _____

Mailing Address Same

Town/
City _____ State ___ Zip _____

Phone (___) _____

## III. CONTACT PERSON

[ ]Check if same as owner

[ ]Check if same as operator

If different than owner or operator:

Name Charles Gunderson

Mailing Address PO Box 104
City/ Town So Pomfret State VT Zip 05067

Phone (802) 457-2921

## IV. LOCATION OF TANKS

Name TEAGO GENERAL STORE

Street address 2035 POMFRET ROAD

town/city So Pomfret Vermont

County Windsor

## SITE LEAK HISTORY (if applicable)

(a) Year of tank or piping leak N/A
Substance leaked _____
b) Year of overfill or spill in excess of 25 gallons:
substance overfilled/spilled _____
c) TANK REMOVAL: Year 1999? HowMany 2 + 2
Replacement 1 Hazardous Site # 99-

## VI. TYPE OF FACILITY (check one)

| | |
|---|---|
| [ ]Institutional | [ ]Residential |
| [X]Retail/convenience store | [ ]Municipality |
| [ ]Bulk Plant | [ ]Service Station |
| [ ]Commercial/Industrial | [ ]Farm |
| [ ]State | [ ]Federal |
| | [ ]Fish Hatchery |

## VII. PERMITTEE (person or entity filing for category one tank permit)

[X]Check if same as owner

[ ]Check if same as operator

[ ]Not applicable/Notified UST only

## VIII. NUMBER OF TANKS AT THIS LOCATION

1 Owned by person named in I above

___ Owned by another person, namely

_____

## IX. Landowner

Name Charles and Alice Gunderson

## X. FINANCIAL RESPONSIBILITY (applicable to permitted tanks only (completion of a Part 5 may be required see instruction sheet).

**VT Petroleum CleanUp Fund** Yes [X] No [ ]
**Pollution Liability Insurance** Yes [ ] No [ ]
If Yes, attach Certificate of Insurance
**Self Insured** Yes [ ] No [ ] If Yes, documentation from Permittee's financial office must be filed with the Agency.

**CERTIFICATION:** I certify under penalty of law that the information provided on this form and all attached documents, is true, accurate, and complete to the best of my knowledge. Further, I recognize that by signing this application I am giving consent to employees of the State to enter the subject property (facility) for the purpose of processing this application.

Stage Road Enterprises INC Charles Gunderson President
Printed name of owner. If a corporation, add name and title of authorized representative

Same
Printed name of permittee, if different than owner. If a corporation, add name and title of authorized representative

Charles Gunderson 3/26/99
Signature of owner or owner's representative Date

Charles Gunderson 3/26/99
Signature of permittee or permittee's representative Date

## LOCAL USE ONLY

Date recorded September 30, 1999
Book Number 50 Page Number 514
City/Town of Pomfret Land records
Hazel B. Harrington
signature of Town or City Clerk
Amends VT UST Form of record in Book No. 43 Page 488

filed by:
Agency of Natural Resources
Department of Environmental Conservation
UST Program, West Building, 103 South Main Street
Waterbury VT 05671-0404
CK 12190

## STATE USE ONLY

[ ] First [X] Amended [X] Notification [X] Permit
[ ] Change of Ownership
[X] Change of Tank Information
[X] Change of Piping Information
Number of COTS ONE Permit fee $30
Fees paid with application $30
Check # 12191 Date received 3/30/99
Reviewed and Approved by Jane Middleton 8/12/99
Facility ID# 4571626 Site# 99-
Financial Responsibility PCF
COMMENTS:

MAR 30 1999

TANK OWNERSHIP Stage Rd Enterprises Inc dba Stage General Store FACILITY ID# 4571626 TANK INFORMATION PART 2

| | | | | | | |
|---|---|---|---|---|---|---|
| **TANK SYSTEM NUMBER** | | | | | | |
| **PRODUCT STORED** i.e. gas<br>If product stored is a fuel oil, is it used for other than on-premises heating and domestic hot water? | GAS | | | | | |
| **STATUS:** Currently in use? Y/N | ~~N~~ ✓ 9/99 A1 | | | | | |
| To be installed | Spring 1999? | | | | | |
| Temporarily out of service? Y/N | | | | | | |
| Date last used (month & year) | | | | | | |
| Permanently out of service? Y/N | | | | | | |
| Date last used (month & year) | | | | | | |
| **SIZE:** * * * * * * * * * * * * Capacity in gallons | 4,000 | | | | | |
| **Compartments:** How Many? | 2 | | | | | |
| MANIFOLDED to another UST? Y/N | N | | | | | |
| **GENERAL INFORMATION** (must be completed and details shown on sketch map) | | | | | | |
| Distance to nearest building? | | | | | | |
| Distance to nearest property line (>5')? | | | | | | |
| Distance to water distribution lines? | | | | | | |
| Distance to sewer lines? | | | | | | |
| Facility served by Public Water Supply? Y/N | N | | | | | |
| Facility has private well? Y/N | Y | | | | | |
| | **TANK** | **PIPE** | **TANK** | **PIPE** | **TANK** | **PIPE** |
| **AGE:** * * * * * * * * * * * * Enter year installed | 1999 | 1999 | | | | |
| **MATERIAL OF CONSTRUCTION:** Steel | ~~✓~~ | | | | | |
| Fiberglass | | ✓ | | | | |
| Fiberglass clad steel | | | | | | |
| Polyethylene clad steel | Y | | | | | |
| Flexible (applicable to piping only) | | | | | | |
| Other (specify) | | | | | | |
| **CORROSION PROTECTION:** (Applicable to metal tank and pipe only) | | | | | | |
| Sti-P3 Tank Y/N | | | | | | |
| Impressed current? (date installed) | | | | | | |
| To be installed? | | | | | | |
| Interior Lining? (date field installed) | | | | | | |
| Lining Warranted? Y/N | | | | | | |
| Anodes/cathodic Y/N | | | | | | |
| Other | | | | | | |
| **SECONDARY CONTAINMENT:** | | | | | | |
| Double Wall | Y | | | | | |
| Concrete Vault (P.E. certified) | | | | | | |
| Impervious Liner | | | | | | |
| Other | | | | | | |
| **OVERFILL PREVENTION:** | | | | | | |
| Float Vent Valve (limited use) | | | | | | |
| High Liquid Level Alarm | | | | | | |
| Automatic Shutoff | X | | | | | |
| Other (specify) | | | | | | |
| **SPILL PREVENTION:** | | | | | | |
| 5 gallon containment manhole | X | | | | | |
| 15 gallon containment manhole | | | | | | |
| Other (specify) | | | | | | |
| Remote fill? Y/N | | | | | | |
| Remote fill secondarily contained? Y/N | | | | | | |

MAR 30 1999

TANK OWNERSHIP Stage Rd Enterprises Inc Tenaja General Store FACILITY ID# 4571626 PAGE 2 OF PART 2

| TANK SYSTEM NUMBER (continued) | TANK | PIPE | TANK | PIPE | TANK | PIPE |
|---|---|---|---|---|---|---|
| **LEAK DETECTION: check all that apply** | | | | | | |
| Interstitial a) weekly manual or b) electronic | a. | | | | | |
| In-Tank Monitor | | | | | | |
| Groundwater Monitoring Wells | | | | | | |
| Vapor Monitoring Wells ( **show on sketch map)** | | | | | | |
| Tightness Test (month/year of last test) | | | | | | |
| Statistical Inventory Reconciliation (SIR) | | | | | | |
| SIR Vendor | | | | | | |
| Suction pump w/vertical check valve | | X yes | | | | |
| Line Test (year of last test) | | | | | | |
| Automatic Line Leak Detector? | | | | | | |
| Shear Valve? (Pressurized systems only) | | | | | | |
| Anti-Siphon Valve? | | | | | | |
| Other | | | | | | |
| **TYPE OF PUMP:** (check all that apply) | | | | | | |
| Submersible (pressurized) | | | | | | |
| Suction | X | | | | | |
| Gravity | | | | | | |
| **GASOLINE VAPOR RECOVERY:** | | | | | | |
| STAGE I installed? Y/N | Y | | | | | |
| Type? Coaxial or 2 Point | 2 point | | | | | |
| STAGE II underground piping Y/N | | | | | | |
| If yes, year installed | | | | | | |

**SKETCH OF TANK FACILITY** Draw the location of the underground storage tank(s) and associated piping in the space provided below. Include the building, islands, groundwater or vapor monitoring wells, water and sewer lines, roads, surface waters, and any other pertinent landmark at or adjacent to the facility. Show distances to nearest building, property, water and sewer lines. Computer drawings/Blue prints can be attached and substituted for the sketch.

See attached survey.
I have also enclosed Larry Martins proposal for installation of the new equipment.

**WARNING NOTICE:** All new tanks must be installed in strict accordance with all applicable laws, rules, regulations, codes, and manufacturer's manual.

NAME OF INSTALLER Larry T. Martin PHONE NUMBER (82) 223-6210

Estimated date of installation (for process of permit application only) MAY 1999

Stage Road Enterprises Inc
DBA TEABO GENERAL STORE

Town Road

COPY

ID# 4571626

NOTES

BEARINGS ARE WITH RESPECT TO APPROXIMATE TRUE NORTH.
REFERENCE IS HAD TO THE LAND RECORDS OF POMFRET:

PARCEL 1

| VOL. | PAGE | |
|---|---|---|
| 30 | 184 | POTTER TO SPITTLE AND JILLSON |
| 29 | 455 | MT. TOM TO POTTER |
| 28 | 429 | ROCKEFELLER TO MT. TOM |
| 28 | 417 | BERTRAM TO ROCKEFELLER |

PARCEL 2

| | | |
|---|---|---|
| 30 | 184 | POTTER TO SPITTLE AND JILLSON |
| 24 | 63 | WOOD TO POTTER |
| 24 | 46 | S. PERRY TO WOOD |
| 20 | 420 | E. PERRY'S WIDOW TO S. PERRY |
| 21 | 106 | HODGES TO E. PERRY |

S.A.-1 WAS LAID OUT 3 RODS WIDE IN 1824. REFERENCE IS HAD TO TOWN RECORDS VOL. II - P 73. NO RECORD WAS FOUND FOR RIGHT OF WAY LIMITS TO S.A.-2.

APPROXIMATE MAGNETIC DECLINATION
NOVEMBER, 1975 - 15° WEST

AREA SUMMARY

| | |
|---|---|
| PARCEL 1 | |
| BETWEEN CENTERLINES OF S.A-1 AND S.A.-2 | 14,244 SQ FT |
| PORTION WITHIN HIGHWAY RIGHTS OF WAY | 8,502 SQ FT |
| PARCEL 2 | |
| WEST OF CENTERLINE OF S.A.-2 | 14,397 SQ FT |
| PORTION WITHIN HIGHWAY RIGHT OF WAY | 4,170 SQ FT |

total area 28,641 sqft
total within highway ROW 12,672 sqft

1 acre = 43,560 sqft.

area = .66 acre

424.700 / 489.700 APPROX. VT. GRID

CENTERLINE OF TRAVELLED PORTION OF EXISTING HIGHWAY S.A.-1

TIE S21°32'E 39.6

FOUND STONE POST

S63°32'W

25.0' SEPTIC SYSTEM EASEMENT

POTTER M/F

GAS PUMPS

194.0

TIE N53°53'W 67.9'

44.78'

CENTERLINE OF TRAVELLED PORTION OF EXISTING HIGHWAY S.A.-2

HIGHWAY EASEMENT TO THIS LINE

POWER LINE

100'

HIGHWAY EASEMENT TO THESE LINES

STORE

40'

124.0'

FOUND IRON PIN

S08°30'E

24.75'

WELL

POMFRET BROOK

25.8'

141.0'

N18°30'E

TIE N09°47'E 154.2'

N23°00'E

25.3'

N53°00'W 9.0'

DEAD ELM

TO POMFRET CENTER

N68°00'E

25.5'

S08°30'E

ALONG WEST BANK OF BROOK

POWER LINE

MOUNT TOM SKI AREAS, INC
M/F

TOWN OF POMFRET
VOL. 21 - P 45 (KEY REFERENCE - HODGES TO ABBOTT)

TO BARNARD

LEGEND

BOUNDARY POINT
BOUNDARY LINE
REFERENCE LINE
STREAM
POWER POLE

APPROX. VT. GRID
489.500 / 424.700

new tanks will be located where gas pumps are shown on this survey.

STATE OF VERMONT
RALPH J. MICHAEL 130
REGISTERED LAND SURVEYOR

I HEREBY CERTIFY THAT I HAVE CAUSED A SURVEY TO BE MADE OF THE LANDS SHOWN HEREON, AND THAT THIS PLAT IS A TRUE REPRESENTATION THEREOF.

DATE: NOVEMBER 13 1975

CLOVER CORPORATION

GARAGE AND STORE PROPERTY
IN SOUTH POMFRET

| | | | |
|---|---|---|---|
| LOCATION | POMFRET, VERMONT | | |
| SURVEY | RJM | DRAWN RJM, AJ | CHECKED |
| PROJ. NO. | 75-74 | DWG. NO. 75-74.1 | REVISION |

MICHAEL ENGINEERING COMPANY
PLYMOUTH, VERMONT

20 0 20 40 60 80

SCALE: 1 INCH = 20 FEET

MAR 18 1994

MAR 30 1994

# Vermont Underground Storage Tank Form

**Notification and Permit Application (if applicable)**

Read instruction sheet carefully before completing this form. Please type or print in ink all items except for the "signature." For additional information call The Vermont Underground Storage Tank Program at **(802) 241-3888**

## I. OWNERSHIP OF TANKS

Name Charles + Alice Gunderson
(CORPORATION, INDIVIDUAL, PUBLIC AGENCY, OR OTHER ENTITY)

Mailing Address Box 104

City So Pomfret State VT Zip 05067

Phone (802) 457-2921

## II. OPERATOR OF TANKS (if different than owner)

Name Stage Rd Enterprises Inc Dba Teago General Store
(CORPORATION, INDIVIDUAL, PUBLIC AGENCY, OR OTHER ENTITY)

Mailing Address Box 127

City So Pomfret State VT Zip 05067

Phone (802) 457-1626

## III. CONTACT PERSON

(person responsible for the day to day operation of tanks)

☒ Check if same as owner

☐ Check if same as operator

If different than owner or operator:

Name

Mailing Address

City State Zip

Phone (  )

## IV. LOCATION OF THE TANKS

Name Teago General Store
(TRADE NAME, COMPANY NAME OR DBA)

Street Address Stage Rd
(ROAD NAME, HIGHWAY #)

~~City~~/Town S. Pomfret, VT Zip 05067

County Windsor

Phone (802) 457-1626

## V. SITE LEAK HISTORY (if applicable)

a) Year of Tank or Piping Leak -0-

Substance Leaked -0-

b) For Overfill or Spill in excess of 25 gallons:

Year of Overfill/Spill -0-

Substance Overfilled/Spilled -0-

TANK REMOVAL Year _____ HOW MANY _____

Replacement _____ Site Assessment _____

## VI. TYPE OF FACILITY (check one)

| | |
|---|---|
| ☐ Institutional | ☐ State |
| ☐ Bulk Plant | ☐ Town |
| ☒ Retail | ☐ Federal |
| ☐ Commercial | ☐ Farm |
| ☐ Service Station | ☐ Residential |

## VII. PERMITTEE

(person or entity filing for Category One Tank Permit, if applicable)

☒ Check if same as owner

☒ Check if same as operator

☐ NA Registered tanks only

## VIII. NUMBER OF TANKS AT THIS LOCATION

2 Number owned by person named in I. above

_____ Number owned by another party

Owned by: _____

## IX. LANDOWNER

Name Charles and Alice Gunderson

## CERTIFICATION

I certify under penalty of law that the information provided on this form and all attached documents, is true, accurate, and complete to the best of my knowledge.

Charles Gunderson
Printed name of owner. If a corporation, add name and title of authorized representative

Stage Rd Enterprises, Inc Dba Teago General Store
Printed name of permittee if different than owner. If a corporation, add name and title of authorized representative

Charles Gunderson — Date 3/17/94
Signature of owner or owner's representative

Charles Gunderson, President — Date 3/17/94
Signature of permittee or permittee's representative

## LOCAL USE ONLY

Date recorded March 25, 1994

Book Number 43

Page Number 488

Town of POMFRET Land Records

Hazel B. Harrington
Signature of Town or City Clerk

Amends VT form of record in Book No. 34, Page 540

filed by:
Agency of Natural Resources
Department of Environmental Conservation
UST Program, West Building
103 South Main Street
Waterbury, VT 05671-0404

CK 3514

## STATE USE ONLY

☐ First ☑ Amended ☒ Notification ☒ Permit

☑ Change of Ownership

☐ Change of Tank Information

Number of COTs 2 Permit Fee $ 50 p.a.

Check # _____ Amount $ _____

Date Received 3/18/94 Date Issued ✓

June Middleton UST Program
(Notification Approval)

_____
(Permit Approval)

LUST Site Number _____

Date Permit Expires _____

Facility ID Number 4571626

Assessment Number _____

# UNDERGROUND STORAGE TANK PERMANENT CLOSURE FORM

Agency Use Only
Facility ID# 457 1626
Date of scheduled activity: _____
Facility Town _____
DEC Official _____ Eval. by _____

Vermont Agency of Natural Resources
Dept.of Environmental Conservation
Waste Management Division
103 South Main Street, West Building
Waterbury, Vermont 05671-0404
Telephone: (802) 241-3888

Site assessment company: GRIFFIN ENT.
Site assessor: DON TOURANGEAU
Phone Number of company (or person): (802) 885-4288
Date of UST closure: 8-30-99
Date of site assessment: 8/30-9-1/99

**Section A.** Facility Information:
Name of facility: TEAGO GENERAL STORE Number of employees: 6
Street address of facility: 2035 STAGE ROAD, S. POMFRET
Owner of UST(s) to be closed: CAROL GUNDERSON Contact(if different than owner): SAME
Mailing address of owner: PO BOX 127 S. POMFRET VT 05067
Telephone number of owner: 802-457-1626 Contact telephone #: _____

**Section B.** UST Closure Information: (please check one)
Reason for initiating UST closure: __Suspected Leak ___Liability X Replacement __Abandoned
Which Portion of UST is to be closed: __Tanks ___Piping X Tanks & Piping

**USTs (piping is considered a part of UST system) undergoing permanent closure. Include condition of USTs**

| UST # | Product | Size (gallons) | Tank age | Tank Condition | Piping age | Piping condition |
|---|---|---|---|---|---|---|
| 1 | REGULAR UNLEADED | 6000 | 17 | EXCELLENT | 17 | POOR |
| 2 | SUPER UNLEADED | 6000 | 17 | EXCELLENT | 17 | POOR |
| 3 | UNKNOWN | 1250 | UNKNOWN | POOR | N/A | N/A |
| 4 | UNKNOWN | 1250 | UNKNOWN | POOR | N/A | N/A |
| | | | | | | |

Which tanks, if any, will be closed in-place: USTs# 0 Authorized by: _____ Date: _____
Disposal/destruction of removed UST(s): Location STORAGE AREA Method _____ Date: _____
Amount (gal.) and type of waste generated from USTs: < 10 GALLONS
**(tank contents are hazardous wastes unless recovered as usable product)**
Tank cleaning company **(must be trained in confined space entry)** MARTINS PUMPO TANK
Certified hazardous waste hauler : NOT DETERMINED Generator ID number: N/A

**Section C.** Initial site characterization:
***Work in this section must be completed by a professional environmental consultant or hydrogeologist with experience in environmental sampling for the presence of hazardous materials. A full report from the consultant must accompany this form.***

**PID information:**
Make: MINI-RAE Model: PGM101 Calibration information (date, time, gas): 8/30, 8/31, 9/1 ISO

**Excavation information:** *(some tank pulls require more than one excavation)*

| Tank(s) # and Excavation (A,B,C,etc) | Depth (ft) | Excavation size(ft³) | Peak PID reading | Depth of Peak (ft) | Avg PID reading | Bedrock Depth (ft) | Groundwater encountered? (y/n) and at depth (ft) | Soil type |
|---|---|---|---|---|---|---|---|---|
| 1&2 | 11 | 840 | 10.6 | 11' | 1.7 | N/A | Y 11' | 3/8-1/2" PEASTONE |
| 3&4 | 11 | 480 | 320 | N/M | 310 | N/A | Y 11' | DARK COARSE SAND/GRAVEL/COBBLES |
| A | 3' | 16 | 178 | 3' | 178 | N/A | NO | GRAVEL |

***Locate all readings and samples on site diagram***
Number of soil samples collected for laboratory analysis? 0 results due date _____
Have any soils been polyencapsulated on site? Yes ✓ (#yds³ 80% PID range above zero low 10.6 - 320 peak) No ___
Have any soils been transported off site? Yes ___ list amount (yds³): 0 No ✓
Location transported to: N/A DEC official who approved N/A
Amount of soils backfilled(yds³): >40 PID range above zero low 0 - 17.6 peak
Have limits of contamination been defined? Yes ___ No X
Is there any other known contamination on- site? Yes X No ___ Comments: SEE NARRATIVE REPORT

Free Phase product encountered? Yes X thickness SHEEN No ___
Groundwater encountered? Yes X depth(ft) 11' No ___
Are there existing monitoring wells on-site? Yes ___ how many: ___ (locate on site diagram) No X
Have new monitoring wells been installed? Yes ___ how many: ___ (locate on site diagram) No X
Have samples been taken from any monitoring wells for lab analysis? Yes ___ results due date ___/___/___ No X

Is there a water supply well on site? Yes ✓ (check type: shallow UNKNOWN rock ___ spring ___) No ___
How many public water supply wells are located within a 0.5 mile radius? 0 min. distance (ft.): 0
How many private water supply wells located within a 0.5 mile radius? 10+ min distance (ft.): 200'

What receptors have been impacted? ✓ soil ___ indoor air ✓ groundwater ___ surface water ___ water supply

SEP 13 1999

**Facility ID#** _____

**Section D: Tanks/Piping Remaining/installed**

Regardless of size, include USTs at site as to *status, e.g. "abandoned", "in use", or "to be installed". (Most installations require permits and advance notice to this office.)

| UST# | Product | Size(gallons) | Tank age | *Tank status | Piping age | *Piping Status |
|---|---|---|---|---|---|---|
| 6 | UNLEADED GASOLINE | 4000/SPLIT | NEW | TBI | NEW | TBI |
| 5 | GASOLINE | ~~500~~ 1000 | UNKNOWN | INUSE | UNKNOWN | INUSE |
| | | | | | | |
| | | | | | | |

___There are no other tanks at this site.

**Section E.** Statements of UST closure compliance:
(must have both signatures or site assessment not complete)

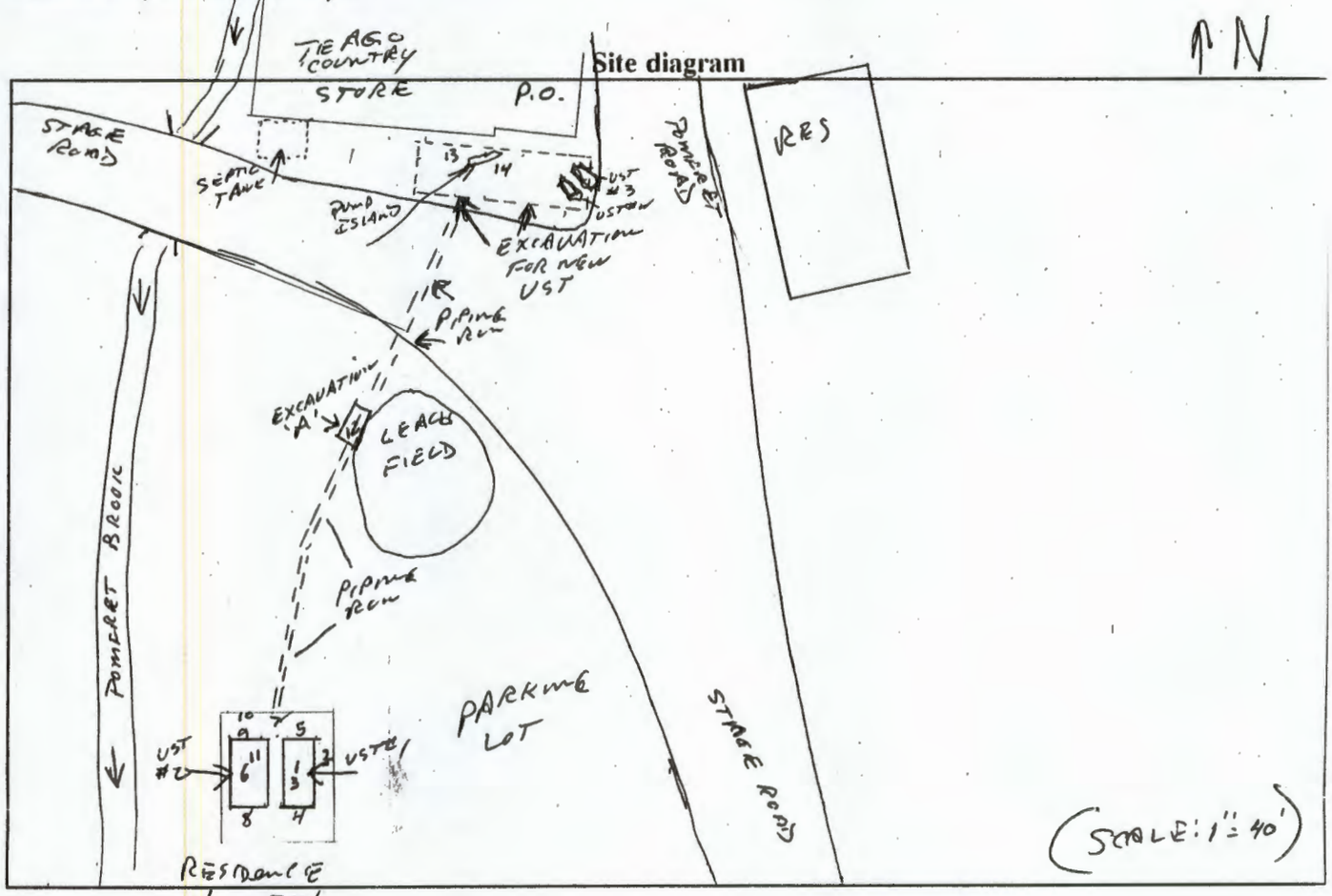
As the party responsible for compliance with the Vermont UST Regulations and related statutes at this facility, I hereby certify that the all of the information provided on this form is true and correct to the best of my knowledge.

Charles Grisamore Date: 9/1/99
Signature of UST owner or owner's authorized representative

As the environmental consultant on site, I hereby certify that the site assessment requirements were performed in accordance with DEC policy and regulations, and that information which I have provided on this form is true and correct to the best of my knowledge.

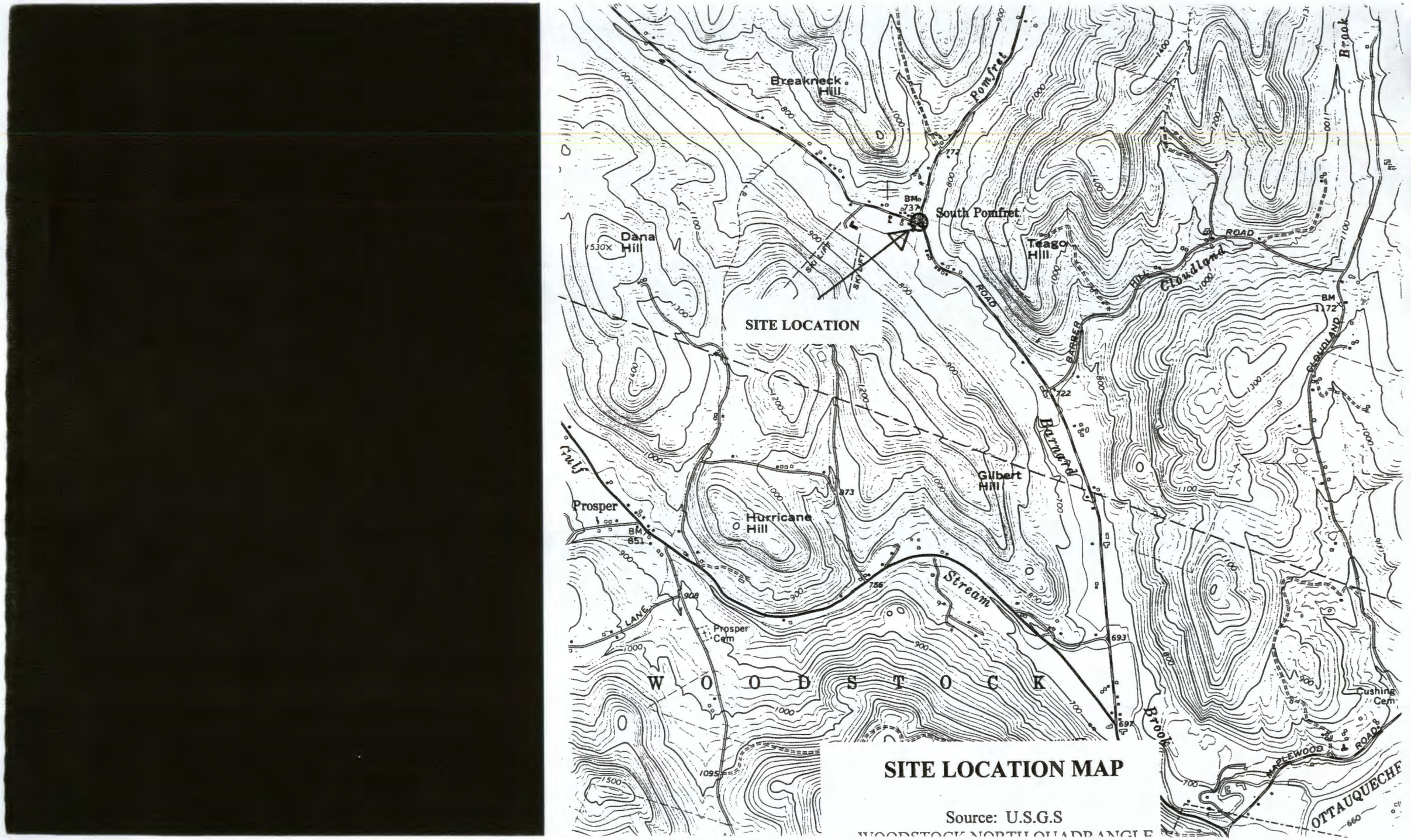
David A. Tousignant Date: 9-1-99
Signature of Environmental Consultant

**Site diagram**




Return form along with complete narrative report and photographs to the Department of Environmental Conservation(DEC), Underground Storage Tank Program within 72 hours of closure.

This Closure Form may only be issued for the facility and the date indicated in the upper left hand corner of page 1. **Changes in the scheduled closure date should be phoned in at least 48 hours in advance.** Both the yellow and white copies of this form must be returned to the address on the top of page 1 of this form; the pink copy should be retained by the UST owner. A written report from an environmental consultant covering all aspects of closure and site assessment, complete with photographs and any other relevant data, must accompany this form. All procedures must be conducted by qualified personnel, to include training required by 29 CFR 1910.120. Documentation of all methods and materials used must be adequate. All work must be performed in compliance with DEC policy "UST Closure and Site Assessment Requirements" as well as all applicable statues, regulations, and additional policies. The DEC may reject inadequate closure forms and reports.




**SITE LOCATION MAP**

Source: U.S.G.S

WOODSTOCK NORTH QUADRANGLE

## Referral to Sites Management Section

TO: **Chuck Schwer**, Sites Management Section Supervisor
THRU: **June Middleton**, UST Program Permit Administrator
FROM: AS
DATE: 9/13/99

---

On 9/13/99 the Management and Prevention Section was notified of existence of petroleum contamination due to a leaking underground storage tank (LUST) found during UST closure or monitoring activities at Trago General Store. The petroleum contamination was reported by Don Tourangeau of Griffin International.
Phone # of person reporting release 865-4288
Name of facility owner (contact) Charles & Alice Gunderson
Phone # of facility owner (contact) 457 1626
Facility ID # 457 1626

***Responsible Party (RP)***

Was land owner **DIRECTED** by the DEC to removed the UST(s)? NO / YES
Is land owner eligible for reimbursement for cost of removing the UST(s)? NO / YES
Were UST(s) permitted for operation at the time of removal? NO / YES
If UST(s) abandoned, what was the year of abandonment
*USE* of UST(s) at the time of abandonment or removal?
Farm / Residential / Commercial / Service ~~Station / Retail / State / Federal~~

***UST Financial Responsibility***:

Petroleum Cleanup Fund Assessment #
PCF Eligible NO / YES
Deductible NO / YES
Cost Recovery applicable NO / YES
If Yes, reason

Sue, I pushed this through to June

Self Insured NO / YES
Insurance Company
Federal Insured NO / YES

***This SITE is believed to involve:***

| | | | |
|---|---|---|---|
| Soil Contamination | NO | YES | MAYBE |
| Groundwater Contamination | NO | YES | MAYBE |
| Free Product | NO | YES | MAYBE |
| Vapor Impact to Buildings | NO | YES | MAYBE |
| Threatened / Impacted Water Supply | NO | YES | MAYBE |
| Surface Water Impact | NO | YES | MAYBE |

Attached is a copy of the UST Permanent Closure Form / UST Closure Assessment / Trip Report

***COMMENTS:*** Priority Site water supplies nearby. Leachfield impact surface water impact. PCS Granted, ~~may not be PCF Eligible~~

# UNDERGROUND STORAGE TANK PERMANENT CLOSURE FORM

Agency Use Only
Facility ID# 457 1626
Date of scheduled activity:
Facility Town
DEC Official ____ Eval. by ____

Vermont Agency of Natural Resources
Dept.of Environmental Conservation
Waste Management Division
103 South Main Street, West Building
Waterbury, Vermont 05671-0404
Telephone: (802) 241-3888

Site assessment company: GRIFFIN INT.
Site assessor: DON TOURANGEAU
Phone Number of company (or person): (802) 865-4288
Date of UST closure: 8-30-99
Date of site assessment: 8/30-9/1/99

**Section A.** Facility Information:
Name of facility: TEAGO GENERAL STORE Number of employees: 6
Street address of facility: 2035 STAGE ROAD, S. Pomfret
Owner of UST(s) to be closed: CAROL GUNDERSON Contact(if different than owner): SAME
Mailing address of owner: PO BOX 127 S. POMFRET VT 05067
Telephone number of owner: 802-457-1626 Contact telephone #:

**Section B.** UST Closure Information: (please check one)
Reason for initiating UST closure: __Suspected Leak ___Liability X Replacement __Abandoned
Which Portion of UST is to be closed: __Tanks ___Piping X Tanks & Piping

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| UST # | Product | Size (gallons) | Tank age | Tank Condition | Piping age | Piping condition |
|---|---|---|---|---|---|---|
| 1 | REGULAR UNLEADED | 6000 | 17 | EXCELLENT | 17 | POOR |
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| 3 | UNKNOWN | 1250 | UNKNOWN | POOR | N/A | N/A |
| 4 | UNKNOWN | 1250 | UNKNOWN | POOR | N/A | N/A |
| | | | | | | |

Which tanks, if any, will be closed in-place: USTs# 0 Authorized by: ____ Date: ____
Disposal/destruction of removed UST(s): Location EARTHMOVING ASSET Method ____ Date: 8/30
Amount (gal.) and type of waste generated from USTs: < 10 GALLONS
**(tank contents are hazardous wastes unless recovered as usable product)**
Tank cleaning company **(must be trained in confined space entry)** MARTINS PUMPTANK
Certified hazardous waste hauler : NOT DETERMINED Generator ID number: N/A

**Section C.** Initial site characterization:
***Work in this section must be completed by a professional environmental consultant or hydrogeologist with experience in environmental sampling for the presence of hazardous materials. A full report from the consultant must accompany this form.***

**PID information:**
Make: HNU Model: PIW101 Calibration information (date, time, gas): 8/30, 8/31, 9/1 JSO

**Excavation information:** *(some tank pulls require more than one excavation)*

| Tank(s) # and Excavation (A,B,C,etc) | Depth (ft) | Excavation size(ft³) | Peak PID reading | Depth of Peak (ft) | Avg PID reading | Bedrock Depth (ft) | Groundwater encountered? (y/n) and at depth (ft) | Soil type |
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| A | 3' | 16 | 178 | 3' | 178 | N/A | NO | GRAVEL |

***Locate all readings and samples on site diagram***
Number of soil samples collected for laboratory analysis? 0 results due date ____
Have any soils been polyencapsulated on site? Yes ✓ (#yds³ 80% PID range above zero low 0 - 320 peak) No ____
Have any soils been transported off site? Yes ___ list amount (yds³): 0 No ✓
Location transported to: N/A DEC official who approved N/A
Amount of soils backfilled(yds³): >40 PID range above zero low 0 - 178 peak
Have limits of contamination been defined? Yes ___ No X
Is there any other known contamination on- site? Yes X No ___ Comments: SEE NARRATIVE REPORT

Free Phase product encountered? Yes X thickness SHEEN No ____
Groundwater encountered? Yes X depth(ft) 11' No ____
Are there existing monitoring wells on-site? Yes ____ how many: ____ (locate on site diagram) No X
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How many private water supply wells located within a 0.5 mile radius? 10+ min distance (ft.): 200'

What receptors have been impacted? ✓ soil ___ indoor air ✓ groundwater ___ surface water ___ water supply

SEP 13 1999

**Facility ID#**_____

**Section D: Tanks/Piping Remaining/installed**

Regardless of size, include USTs at site as to *status, e.g. "abandoned", "in use", or "to be installed". (Most installations require permits and advance notice to this office.)

| UST# | Product | Size(gallons) | Tank age | *Tank status | Piping age | *Piping Status |
|---|---|---|---|---|---|---|
| 6 | UNLEADED GASOLINE | 4000/SAID | NEW | TBI | NEW | TBI |
| 5 | GASOLINE | ~~500~~ 1000 | UNKNOWN | INUSE | UNKNOWN | INUSE |
| | | | | | | |
| | | | | | | |

___There are no other tanks at this site.

**Section E.** Statements of UST closure compliance:
(must have both signatures or site assessment not complete)

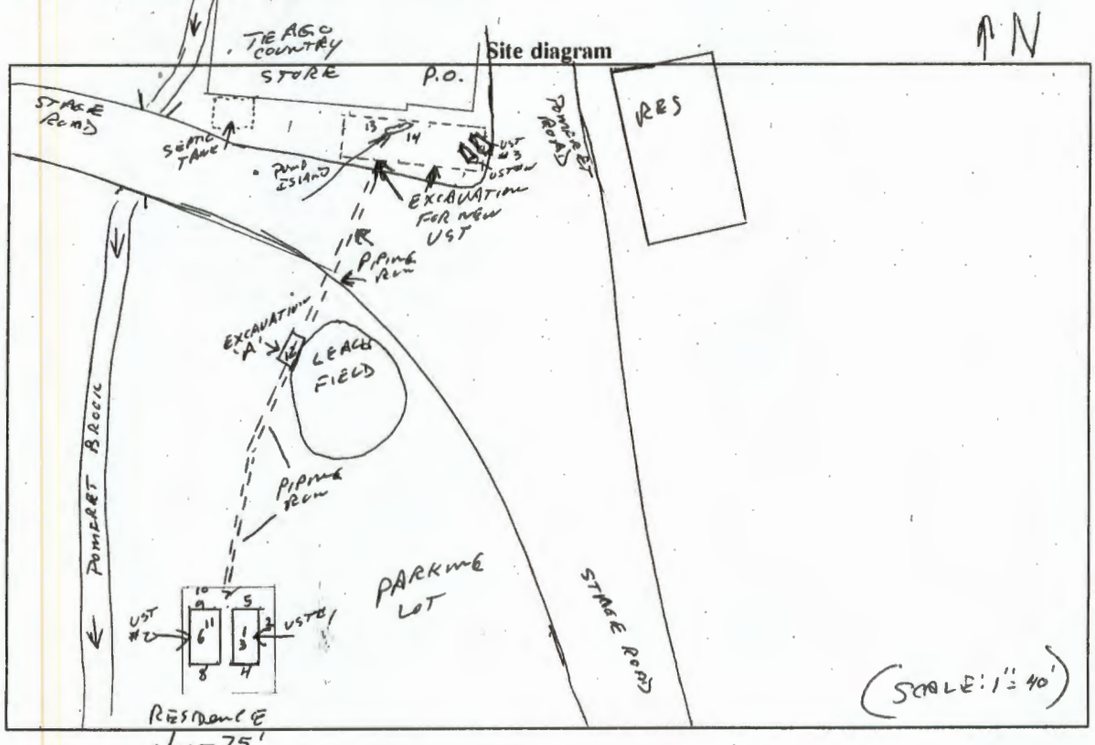
As the party responsible for compliance with the Vermont UST Regulations and related statutes at this facility, I hereby certify that the all of the information provided on this form is true and correct to the best of my knowledge.

Charles Gruber Date: 9/1/99
Signature of UST owner or owner's authorized representative

As the environmental consultant on site, I hereby certify that the site assessment requirements were performed in accordance with DEC policy and regulations, and that information which I have provided on this form is true and correct to the best of my knowledge.

David J. Tousignant Date: 9-1-99
Signature of Environmental Consultant

Site diagram




Return form along with complete narrative report and photographs to the Department of Environmental Conservation(DEC), Underground Storage Tank Program within 72 hours of closure.

This Closure Form may only be issued for the facility and the date indicated in the upper left hand corner of page 1. **Changes in the scheduled closure date should be phoned in at least 48 hours in advance.** Both the yellow and white copies of this form must be returned to the address on the top of page 1 of this form; the pink copy should be retained by the UST owner. A written report from an environmental consultant covering all aspects of closure and site assessment, complete with photographs and any other relevant data, must accompany this form. All procedures must be conducted by qualified personnel, to include training required by 29 CFR 1910.120. Documentation of all methods and materials used must be adequate. All work must be performed in compliance with DEC policy "UST Closure and Site Assessment Requirements" as well as all applicable statues, regulations, and additional policies. The DEC may reject inadequate closure forms and reports.

## Referral to Sites Management Section

TO: **Chuck Schwer**, Sites Management Section Supervisor
THRU: **June Middleton**, UST Program Permit Administrator
FROM: AS
DATE: 9/13/99

---

On 9/13/99 the Management and Prevention Section was notified of existence of petroleum contamination due to a leaking underground storage tank (LUST) found during UST closure or monitoring activities at Texaco General Store. The petroleum contamination was reported by Don Tourangeau of Griffin International.
Phone # of person reporting release 865-4288
Name of facility owner (contact) Charles & Alice Gunderson
Phone # of facility owner (contact) 457 1626
Facility ID # 4571626

***Responsible Party (RP)*** Charles & Alice Gunderson Stage Rd Enterprises Inc.
Was land owner **DIRECTED** by the DEC to removed the UST(s)? NO / YES
Is land owner eligible for reimbursement for cost of removing the UST(s)? NO / YES
Were UST(s) permitted for operation at the time of removal? NO / YES
If UST(s) abandoned, what was the year of abandonment _____
*USE* of UST(s) at the time of abandonment or removal?
Farm / Residential / Commercial / Service Station / Retail / State / Federal

***UST Financial Responsibility***:
Petroleum Cleanup Fund Assessment # 500
PCF Eligible NO / (YES) $100
Deductible NO / (YES)
Cost Recovery applicable (NO) / YES
If Yes, reason _____

Self Insured NO / YES
Insurance Company _____
Federal Insured NO / YES

***This SITE is believed to involve:***

| | | | |
|---|---|---|---|
| Soil Contamination | NO | (YES) | MAYBE |
| Groundwater Contamination | NO | (YES) | MAYBE |
| Free Product | NO | YES | (MAYBE) |
| Vapor Impact to Buildings | NO | YES | (MAYBE) |
| Threatened / Impacted Water Supply | NO | (YES) | MAYBE |
| Surface Water Impact | NO | YES | (MAYBE) |

Attached is a copy of the UST Permanent Closure Form / UST Closure Assessment / Trip Report

***COMMENTS:*** Priority Site water supplies nearby. Leachfield impact surface water impact. PCS Granted, ~~may not be PCF Eligible~~

SEP 13 1999

GRIFFIN INTERNATIONAL INC

September 10, 1999

Ms. Sue Thayer
State of Vermont
Department of Environmental Conservation
Waste Management Division
103 South Main Street/West Building
Waterbury, VT 05671-0404

RE: UST Closure Inspection, Teago Country Store, South Pomfret, Vermont
Facility ID #: 4571626

Dear Ms. Thayer:

On August 30 through September 1, 1999, I conducted an investigation of the closure of the UST system at the Teago Country Store, located on Stage Road in South Pomfret, Vermont. Enclosed are the completed State of Vermont tank pull inspection forms, a site location map, site photographs and a site expressway form.

The USTs undergoing permanent closure consisted of 2 - 6,000 gallon single wall fiberglass USTs. The piping from the USTs to the former dispenser island consisted of single wall galvanized pipe. Two additional USTs, each having a capacity of 1,250 gallons, were discovered to exist in the vicinity of the former dispenser island. These USTs were constructed of single wall steel. The inspection and closure of the additional USTs was conducted as part of this closure inspection.

The USTs and piping were excavated by Gravel Construction of Wolcott, Vermont. Removal and transport of the USTs was also conducted by Gravel Construction. Cleaning of the USTs was conducted by Larry Martin of Martin's Pump & Tank of Worcester, VT. No waste was generated from the tank cleaning process. All pumpable fuel was removed from the USTs prior to ventilating of the USTs. No water or debris were present upon opening the fiberglass USTs. Disposal of the fiberglass USTs was conducted at a local farmer, who was to use the former fiberglass USTs as storage for sawdust. The two steel USTs were to be disposed of at Gates Salvage in Hardwick. Piping associated with the UST system removed will also be disposed of at Gates Salvage. Piping under the road was blown free of product and abandoned. This was agreed to by Mr. Ted Unkles in a phone conversation conducted by Mr. Larry Martin prior to the UST closure activities starting. All other piping from the former UST basin to the roadway was removed and inspected.

The 2 – 6,000 gallon fiberglass USTs were inspected and found to be in excellent condition. The age of the two fiberglass USTs is 17 years, with the piping and USTs having been installed in 1983. The piping was visually inspected for signs of petroleum leakage or penetrations after removal, with the piping found to be in poor condition at the connections, with all joints only hand tight. No holes in the piping were identified. Soils in the vicinity of the piping had a VOC concentration of 178 ppm in a sample collected from a depth of 3'. During excavation for the new UST installation, the two unexpected USTs were encountered. During attempts to open the tops of the USTs, both ruptured, with the sand inside flowing into the excavation. The age of these two USTs was unknown. Based on conversations with local residents

P.O. Box 943 • Williston, VT 05495 • Phone 802-865-4288 • Fax 802-657-4129
59 Clinton Street • Plattsburgh, NY 12901 • Phone 518-562-4666 • Fax 518-561-6832

and construction of the USTs, it is estimated the USTs are over 50 years old. The two 1,250 gallon USTs were partially filled with sand, indicating closure in place had been attempted in the past.

The soils excavated to gain access to the fiberglass USTs consisted of 3/8" – 1/2 " peastone, with dark brown, coarse loam with cobbles and trace amounts of clay present on the outer limits of the UST excavation and covering the piping. This was the same soil consistency in the vicinity of the new UST installation. Groundwater was encountered during the UST excavation at a depth of 11'. Bedrock was not encountered. A concrete pad exists on the bottom of the former UST basin, at a depth of approximately 12'. No exploratory excavation was conducted past the concrete pad. All soils excavated in the vicinity of the new UST installation were stockpiled onsite.

All residences and businesses in the area of the site are served by individual water supplies and septic systems. Potential receptors identified during the investigation include several nearby buildings and a small stream, Pomfret Brook, located west of the site. The eastern bank of the Pomfret Brook was visually inspected for any signs of petroleum impact, with none identified. The supply well for the store is located in the basement, with a total depth of approximately 120'. The depth was an estimate by a plumber who recently replaced the pump in the well at the store.

A total of 13 soil samples and one water sample were collected from the excavations and screened for volatile organic compounds (VOCs) with an H-Nu Model HW 101 photo ionization device (PID). All PID readings were recorded, with a peak VOC concentration of 320 ppm (parts per million) recorded from a sample collected from the vicinity of the former dispenser island. All soil samples were collected and screened in accordance with Griffin soil sampling protocols.

The PID was properly calibrated in accordance with Griffin protocols prior to use. The location, depth and VOC concentration for each sample are tabulated below.

| Sample | Location/Excavation | Depth | VOC Concentration |
|---|---|---|---|
| 1 | UST # 1 fill pipe, top of tank | 3' | 0 ppm |
| 2 | UST # 1 east side | 6' | 0 ppm |
| 3 | UST # 1 piping connection | 3' | 0 ppm |
| 4 | UST #1 south end/basin | 11' | 0 ppm |
| 5 | UST #1 north end/basin | 11' | 0 ppm |
| 6 | UST #2 piping/top of tank | 3' | 0.8 ppm |
| 7 | Piping run, north edge of excavation | 3' | 1.2 ppm |
| 8 | UST #2 south end/basin | 11' | 0.8 ppm |
| 9 | UST #2 north end/basin | 11' | 4.6 ppm |
| 10 | UST #2 northwest corner | 11' | 0.8 ppm |
| 11 | Water sample/UST #2 basin | 11' | 10.4 ppm |
| 12 | piping excavation "A" | 3' | 178 ppm |
| 13 | New UST excavation/former dispensers | N/M | 320 ppm |
| 14 | New UST excavation | N/M | 300 ppm |

Based on data collected during the investigation and visual observations, I have arrived at the following conclusions:

1) The two fiberglass USTs were in excellent condition, with no signs of leakage.

2) Soil contamination was detected during the closure inspection, with the peak level of 320 ppm being recorded from soils located under the former dispenser island. This level of contamination is believed to have resulted from leakage from the piping connections/joints.

3) All businesses and residences located in the immediate vicinity of the site are served by individual water supplies and septic systems.

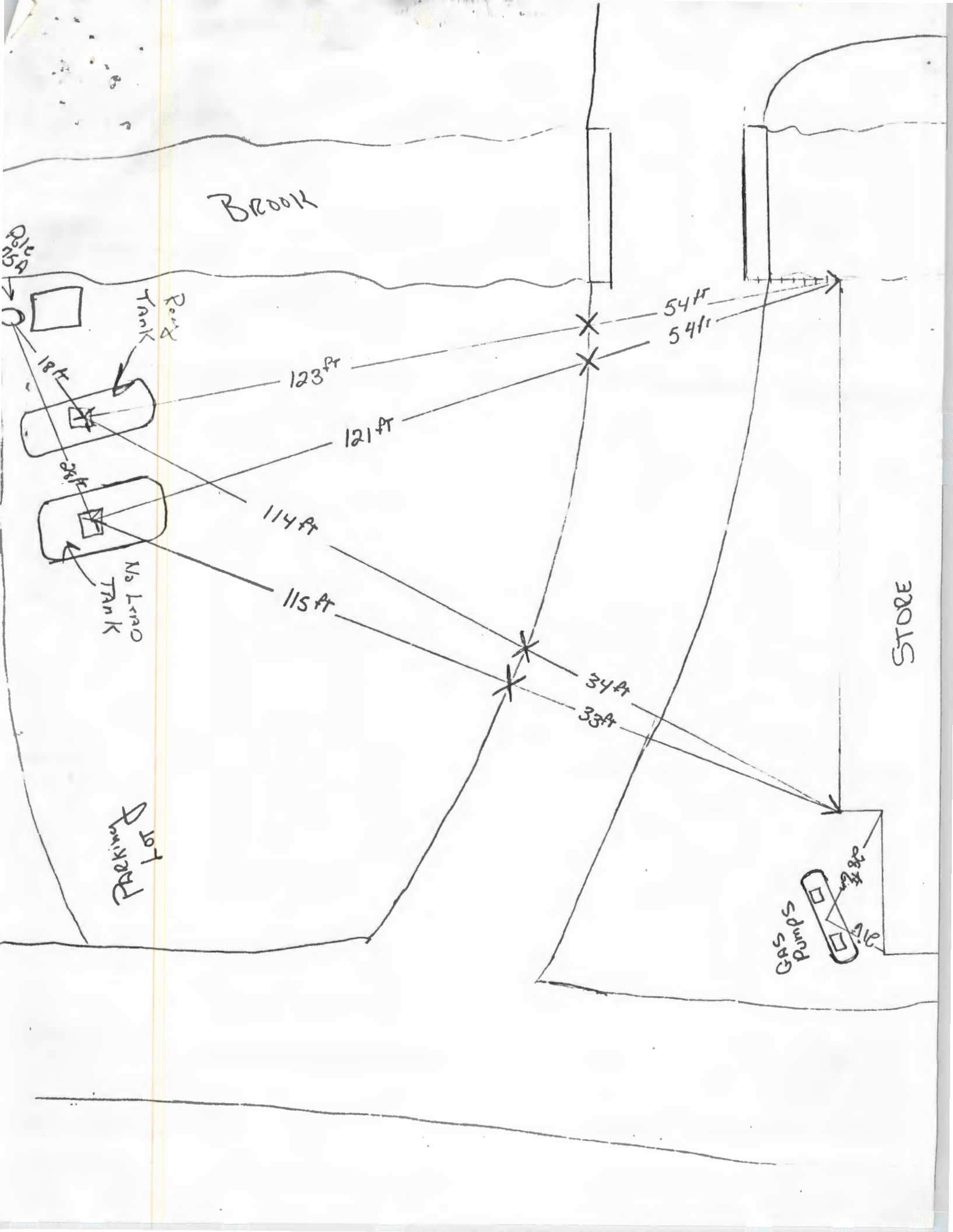
4) The degree and extent of petroleum contamination at this site have not been defined.

If you have any questions regarding this closure report, give me a call at your convenience.

Sincerely,

Don Tourangeau
Environmental Technician

c. Mr. Chuck Gunderson, Teago Country Store
Mr. Larry Martin, Martin's Pump & Tank
file a:89941601


BROOK
Old Well
Tank
Road
18 ft
123 ft
121 ft
54 ft
54 ft
38 ft
114 ft
115 ft
No Lead
Tank
34 ft
33 ft
STORE
Parking Lot
Gas Pumps

2-19 WL

returned 9/28 JAN 31 1986 DEC 13 1985



# VERMONT NOTIFICATION FOR UNDERGROUND STORAGE TANKS

-READ INSTRUCTION PAGE CAREFULLY BEFORE COMPLETING THIS FORM-

PLEASE TYPE OR PRINT IN INK ALL ITEMS EXCEPT "SIGNATURE" IN SECTION VI ON PAGE 2.
SEPARATE NOTIFICATION MUST BE FILED FOR TANKS OWNED AT A DIFFERENT LOCATION.
FOR ADDITIONAL INFORMATION, CALL THE VERMONT UNDERGROUND STORAGE TANK PROGRAM AT (802) 828-3395.

## I. OWNERSHIP OF TANKS

NAME (CORPORATION, INDIVIDUAL, PUBLIC AGENCY OR OTHER ENTITY)
Rhoda Teagle dba Teago Management (Gary Brown)

STREET ADDRESS
14 Central Street

TOWN OR CITY: Woodstock
COUNTY: Windsor
STATE: Vermont
ZIP CODE: 05091
AREA CODE PHONE NUMBER: ( 802 ) 457-1370

## II. CONTACT PERSON (PERSON RESPONSIBLE FOR DAY-TO-DAY OPERATION OF TANKS.)

NAME (IF SAME AS IN SECTION I, CHECK BOX HERE ☐)
Lee Pratt, Manager

JOB TITLE: manager of Teago General Store
AREA CODE PHONE NUMBER: (802 ) 457-1626

MAILING ADDRESS (IF DIFFERENT FROM SECTION I)
STREET ADDRESS: Teago General Store (Barnard Stage Rd)
TOWN OR CITY: South Pomfret
COUNTY: Windsor
STATE: Vermont
ZIP CODE: 05067

## III. SITE LEAK HISTORY (COMPLETE THIS SECTION ONLY IF APPLICABLE)

YEAR OF LEAK: n/a
ESTIMATE OF QUANTITY LEAKED IN GALLONS:
SUBSTANCE LEAKED:

SOURCE OF LEAK (CHECK ALL THAT APPLY)
☐ TANK ☐ PUMP ☐ OVERFILL
☐ PIPING ☐ TRANSFER ☐ OTHER

CONTAMINATION (CHECK ALL THAT APPLY)

| | YES | NO | DON'T KNOW |
|---|---|---|---|
| SOIL | ☐ | ☐ | ☐ |
| GROUNDWATER | ☐ | ☐ | ☐ |
| SURFACE WATER | ☐ | ☐ | ☐ |

CORRECTIVE ACTION (CHECK ALL THAT APPLY)
☐ PRODUCT RECOVERY WELLS INSTALLED
☐ SURFACE WATER CONTAINMENT USED
☐ CONTAMINATED SOIL EXCAVATED
☐ TANK REPLACED
☐ PIPING REPLACED
☐ NO ACTION TAKEN
☐ OTHER (SPECIFY)

## IV. LOCATION OF TANKS

FACILITY NAME OR OTHER SITE IDENTIFIER, AS APPLICABLE
Teago General Store
STREET ADDRESS, STATE ROAD, R.R. #, AS APPLICABLE
Barnard Stage Road
TOWN OR CITY: ~~South~~ Pomfret
COUNTY: Windsor
STATE: Vermont
ZIP CODE: 05067
NUMBER OF TANKS AT THIS LOCATION: two
NAME OF LANDOWNER: Teago Management

TYPE OF FACILITY (CHECK ONE)
☐ INSTITUTIONAL ☒ RETAIL/CONVENIENCE STORE
☐ BULK PLANT ☐ INDUSTRIAL/COMMERCIAL
☐ STATE ☐ RESIDENTIAL
☐ TOWN ☐ SERVICE STATION
☐ FARM
☐ FEDERAL (GIVE FACILITY I.D. NO. )
☐ OTHER (SPECIFY)

USE THIS SPACE TO SKETCH AND/OR VERBALLY DESCRIBE FACILITY LOCATION. INCLUDE ESTIMATED DISTANCES TO CENTER LINE OF ROADS, BUILDINGS, STREAMS AND OTHER LANDMARKS. USE DIRECTIONAL DESCRIPTORS (NORTH, SOUTH, ETC.) WHERE APPLICABLE.

SEE ATTACHED SKETCH

## LOCAL USE ONLY

FACILITY I.D. NO. 4571626 WAS RECORDED ON January 22, 1986 (DATE) IN BOOK NO. 34, PAGE 540 OF THE Pomfret (TOWN) LAND RECORDS.

Hazel B. Harrington
SIGNATURE OF TOWN OR CITY OFFICER

## STATE USE ONLY

☑ FIRST ☐ AMENDED

FACILITY IDENTIFICATION NUMBER: 4571626
DATE RECEIVED: 12-13-85
APPROVED: 12/23/85 ☐
RECEIVED BY: Susan Alexander

OWNER NAME Teago Management (FROM SECTION I)

INDICATE NUMBER OF COPIES OF PAGE 2 ATTACHED [1]



## V. TANK INFORMATION (COMPLETE FOR EACH TANK AT THIS LOCATION)

| NUMBER TANKS SEQUENTIALLY (START WITH TANK CLOSEST TO BUILDING, IF POSSIBLE) | | TANK NO. 1 | TANK NO. 2 | TANK NO. | TANK NO. | TANK NO. |
|---|---|---|---|---|---|---|
| 1. STATUS OF TANK (CHECK ONE) | CURRENTLY IN USE | X | X | | | |
| | TEMPORARILY OUT OF USE | | | | | |
| | PERMANENTLY OUT OF USE | | | | | |
| 2. ESTIMATED AGE IN YEARS | | ~~17~~ 83 | ~~17~~ 27 | | | |
| 3. TOTAL CAPACITY (GALLONS) | | 6,000 | 6,000 | | | |
| 4. MATERIAL OF CONSTRUCTION (CHECK ONE) correct | STEEL | | | | | |
| | CONCRETE | | | | | |
| | FIBERGLASS REINFORCED PLASTIC | X | X | | | |
| | OTHER (SPECIFY) | | | | | |
| | UNKNOWN | | | | | |
| 5. INTERNAL PROTECTION (CHECK ALL THAT APPLY) | LINING (E.G. EPOXY RESINS) | | | | | |
| | OTHER (SPECIFY) | | | | | |
| | NONE | X | X | | | |
| | UNKNOWN | | | | | |
| 6. EXTERNAL PROTECTION (CHECK ALL THAT APPLY) | CATHODIC PROTECTION | | | | | |
| | PAINTED COATING (E.G. ASPHALTIC) | | | | | |
| | FIBERGLASS REINFORCED PLASTIC COATED | | | | | |
| | OTHER (SPECIFY) | | | | | |
| | NONE | X | X | | | |
| | UNKNOWN | | | | | |
| 7. SECONDARY CONTAINMENT (CHECK ONE) Single wall | DOUBLE-WALL TANK | ~~X~~ | X | | | |
| | CONCRETE VAULT | | | | | |
| | IMPERVIOUS LINER | | | | | |
| | OTHER (SPECIFY) | | | | | |
| | NONE | ~~X~~ | ~~X~~ | | | |
| | UNKNOWN | | | | | |
| 8. LEAK DETECTION (CHECK ALL THAT APPLY) | DAILY INVENTORY CONTROL | X | X | | | |
| | CONTINUOUS SENSOR | | | | | |
| | ELECTRONIC IN-TANK SYSTEM | | | | | |
| | GROUNDWATER MONITORING WELL | | | | | |
| | * PRECISION TEST (ENTER MO./YR. IF WITHIN LAST 5 YRS.) | / | / | / | / | / |
| * A PRECISION TEST IS NOT AN AIR PRESSURE TEST. BY DEFINITION, A PRECISION TEST IS ACCURATE TO .05 GAL./HR. | OTHER (SPECIFY) | | | | | |
| | NONE | | | | | |
| 9. PIPING (CHECK ALL THAT APPLY) per Purcell Oil | BARE STEEL | | | | | |
| | GALVANIZED STEEL | X | X | | | |
| | BLACK IRON | | | | | |
| | FIBERGLASS REINFORCED PLASTIC | | | | | |
| | CATHODICALLY PROTECTED | | | | | |
| | OTHER (SPECIFY) | | | | | |
| | UNKNOWN | ~~X~~ | ~~X~~ | | | |
| 10. SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME (CHECK ALL THAT APPLY) | GASOLINE (INCL. ALCOHOL BLENDS) | X | X | | | |
| | DIESEL | | | | | |
| | NOS. 2 OR 4 FUEL OIL | | | | | |
| | NOS. 5 OR 6 FUEL OIL | | | | | |
| | AVIATION FUEL | | | | | |
| | KEROSENE | | | | | |
| | USED OIL | | | | | |
| | OTHER PETROLEUM SUBSTANCE (SPECIFY) | | | | | |
| | HAZARDOUS SUBSTANCE (GIVE NAME OR CAS. NO.) | | | | | |
| | MIXTURE OF SUBSTANCES | | | | | |
| | UNKNOWN | | | | | |
| 11. ADDITIONAL INFORMATION FOR TANKS TAKEN PERMANENTLY OUT OF SERVICE | (A) ESTIMATED DATE LAST USED (MO./YR.) | / | / | / | / | / |
| | (B) ESTIMATED QUANTITY LEFT STORED (GAL.) | | | | | |

REMOVED 1989

per Gary Brown & Purcell Oil

## VI. SIGNATURE

I CERTIFY UNDER PENALTY OF LAW THAT THE INFORMATION PROVIDED ON THIS FORM AND ALL ATTACHED DOCUMENTS IS TRUE, ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Teago Management by Gary Randall Brown, Esq., its attorney

PRINTED NAME AND OFFICIAL TITLE OF OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

X _____ SIGNATURE

X 12/12/85 DATE SIGNED

589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495

www.kas-consulting.com

802 383.0486 p
802 383.0490 f

August 10, 2017

Ms. Sue Thayer
VTANR/Department of Environmental Conservation
Waste Management & Prevention Division
Underground Storage Tank Program
1 National Life Drive – Davis 1
Montpelier, VT 05620-3704

RE: **Underground Storage Tank Closure Assessment Report** – Teago General Store, 2035 Stage Road, South Pomfret, Vermont. SMS#99-2670; (Facility ID #4571626)

Dear Ms. Thayer:

On August 1, 2017, KAS, Inc. (KAS) conducted the closure assessment of a split 4,000 gallon gasoline (UST#1999-1-2) doubled walled steel underground storage tank (UST) at the Teago General Store located in South Pomfret, Vermont. (Site; Attachment 1: Site Location Map). The UST and piping were installed in 1999 and were used for the retail sale of gasoline until 2005 when the responsible party (Stage Road Enterprises, Inc.) discontinued the sale of gasoline. The UST was cleaned and removed from the Site. No new UST was installed.

Attached to this letter are: a Site Location Map and Site Map with Soil Sample Locations (Attachment 1); photographic documentation of the UST (Attachment 2); and, the completed UST Permanent Closure Form (Attachment 3).

***Background***

In August 1999, during a routine UST closure inspection of several gasoline USTs, petroleum impacts to soils were observed and recorded in the excavation area of the now removed UST #1999-1-2. As a result, the site was listed as a hazardous waste site (SMS#1999-2670) and subsequent environmental investigations were conducted in August and December 2000 which included the installation of several monitoring wells. Groundwater samples have been collected from the monitoring well network on a periodic basis since 2000, with the most recent sampling event conducted in 2016.

***Responsibilities***

The UST was owned by Stage Road Enterprises, Inc. of South Pomfret, Vermont. D&M Petroleum, Inc. (D&M) of Bristol, Vermont pulled and cleaned the UST and removed the UST-derived waste. Approximately 35 gallons of sludge and solids were generated during the cleaning process. The UST-derived waste is scheduled to be removed from the Site by NRC, Inc. (formerly Enpro). The USTs were cut and disposed for recycling. KAS was retained by the responsible party to perform the environmental investigation.

***Detail Presentation***

KAS arrived on site at 08:30 on August 1, 2017. The UST was in the process of being uncovered by D&M. Cleaning and removal of the UST followed.

UST #1999-1-2 was found to be in excellent condition. The exterior of the tank was coated with a corrosion protected multi-component green polyurethane

coating (Act -100) and did not show any visible holes or failures. All of the labeling was intact. The UST and secondary piping were in excellent condition with no rusting, holes or pitting. The primary piping had already been removed at an unknown date and therefore its condition could not be assessed. The sump below the dispenser was constructed of wood and showed signs of deterioration; however, no visible holes were observed. The UST was removed from the Site on August 1, 2017.

The excavation was approximately 250 square feet and dug to a depth of 9 feet below surface grade (bsg). Groundwater was encountered at a depth of 7 feet bsg. Bedrock was not encountered during the excavation. Subsurface soils consisted of sand at shallow depths but changed to gravel as the excavation got deeper. All soil removed from the excavation pit was temporarily stockpiled on-site for use as backfill into the excavation.

***Soil Screening***

A total of 8 soil samples were collected during the UST removal for field screening. Soil samples were collected in the vicinity of the USTs and associated piping components and screened for Volatile Organic Compounds (VOCs) using a MiniRae Lite photoionization detector (PID) equipped with a 10.6 eV lamp. Prior to screening, the PID was calibrated with isobutylene with reference made to benzene. Soils were screened using the KAS Jar/Polyethylene Bag Headspace Screening Protocol. Screening results for the UST closure and piping components are presented in Table 1 (see Attachment 2).

**Table 1**
**Soil Screening Results, Teago General Store**
**1 X 4,000 gallon gasoline split UST**
**August 1, 2017**

| Sample Number | Sample Depth (fbg) | PID Reading (ppmv) | Location |
|---|---|---|---|
| 1 | 0-1 | 1.8 | Fill atop UST (Sand) |
| 2 | 1-2 | 2.0 | Fill atop UST (Sand) |
| 3 | 2-3 | 1.9 | Below dispenser/north side of UST |
| 4 | 3-4 | 2.0 | West side of UST (Sand) |
| 5 | 6-7 | 1.3 | East side of UST (Sand) |
| 6 | 8-9 | 812 | Below east end of UST(Sand) |
| 7 | 8-9 | 412 | Below UST (Sand) |
| 8 | 8-9 | 1.4 | Below west end of UST (Sand) |

***Summary of Findings***

The average PID reading in the area of the UST and piping was 154.3 parts per million by volume (ppmv). Evidence of old weathered petroleum (black stained soil) impacts were noted beneath the UST, specifically, beneath the eastern section the UST. Groundwater was encountered in the excavation at a depth of approximately 7 feet bsg and a small sheen was visible on the water. On August 1, 2017 KAS contacted Mr. Tim Cropley of the Vermont Department of

Environmental Conservation (VTDEC) to provide a report on the elevated readings and subsurface conditions which were indicative of a historic release. As a result, no new spill # was assigned to the Site. In addition, KAS also spoke with Mr. Gerold Noyes of the VTDEC who is the current state manager of the Site and provided him with an update on the findings. No additional work was requested by Mr. Gerold Noyes in association with the tank removal activities.

Based on the historical information gathered regarding the history of the property in 1999, the piping between the former 6,000 gallon gasoline UST and the dispenser island were observed to be in poor condition at the connections, and the joints were only hand tight.[1] As a result, petroleum impacted soils were encountered between the dispenser island and the two 6,000 gallon gasoline USTs and in the excavation for UST #1999-1-2, located in the vicinity of the dispenser island.[1]

On August 1, 2017, the highest levels of petroleum impacted soils were recorded beneath the eastern section of UST#1999-1-2 with a PID reading measured as high as 812 ppmv. The location of the dispenser sump was located almost directly atop UST #1999-1-2 and no elevated PID readings were recorded below the dispenser sump to a maximum depth of 3 ft bsg, which indicates the sump provided adequate protection to the subsurface in the event of a spill. Given this information, petroleum impacts encountered during this closure assessment appear to be in the same general area of where impacts were encountered in August 1999, which suggests the reported impacts are characteristic of an old release. In addition, KAS reviewed the most recent groundwater monitoring report prepared for the Site *(KAS' May 2016 Biennial Groundwater Monitoring Report)* and found no unexplained spikes of VOCs recorded in the groundwater data collected from the downgradient monitoring well, which further provides evidence a new release has not occurred from the USTs and its associated piping components.

***Receptor Survey***

An updated sensitive receptor risk assessment of the area surrounding the Site is presented in the most recent groundwater sampling report prepared by KAS which is available on file at the VTDEC in Montpelier, Vermont. It appears no new release has occurred and because site conditions appear unchanged since the most recent groundwater sampling event, significant off-site migration of the dissolved phase plume and potential impact to neighboring properties is considered low.

***Conclusions and Recommendations***

Petroleum impacts were detected during the closure of UST #1999-1-2. The highest levels of impacts were noted in the soils beneath UST #1999-1-2 with a PID reading measured as high as 812 ppmv. This area of impact appears to be in the same general area of where impacts to the subsurface were encountered in August 1999. This suggests the observed impacts are related to the old release which is being monitored over time. No evidence of a new release was noted from the USTs and dispenser sumps. In addition, no gasoline has been stored in UST#1999-1-2 for over 10 years and no unexplained spikes of VOCs

[1] June 2000, Initial Site Investigation Report; Griffin International

have been noted in the groundwater data collected from the downgradient well which further provides evidence no new release has occurred.

The Teago Store is a listed hazardous waste site and groundwater beneath the site is monitored on a biennial basis. During the UST closure assessment KAS was able to relocate and establish monitoring wells MW-2 and MW-5 as potential viable monitoring points. These wells were found to be paved over. Per a discussion with Mr. Gerold Noyes, KAS recommends a groundwater sampling event occur in fall 2017 to capture data from monitoring wells MW-2, MW-3 and MW-5.

Please feel free to contact me with any questions or comments via telephone, (802) 383-0486, or email, samd@kas-consulting.com.

Sincerely,



Sam Driver
Project Manager, EP

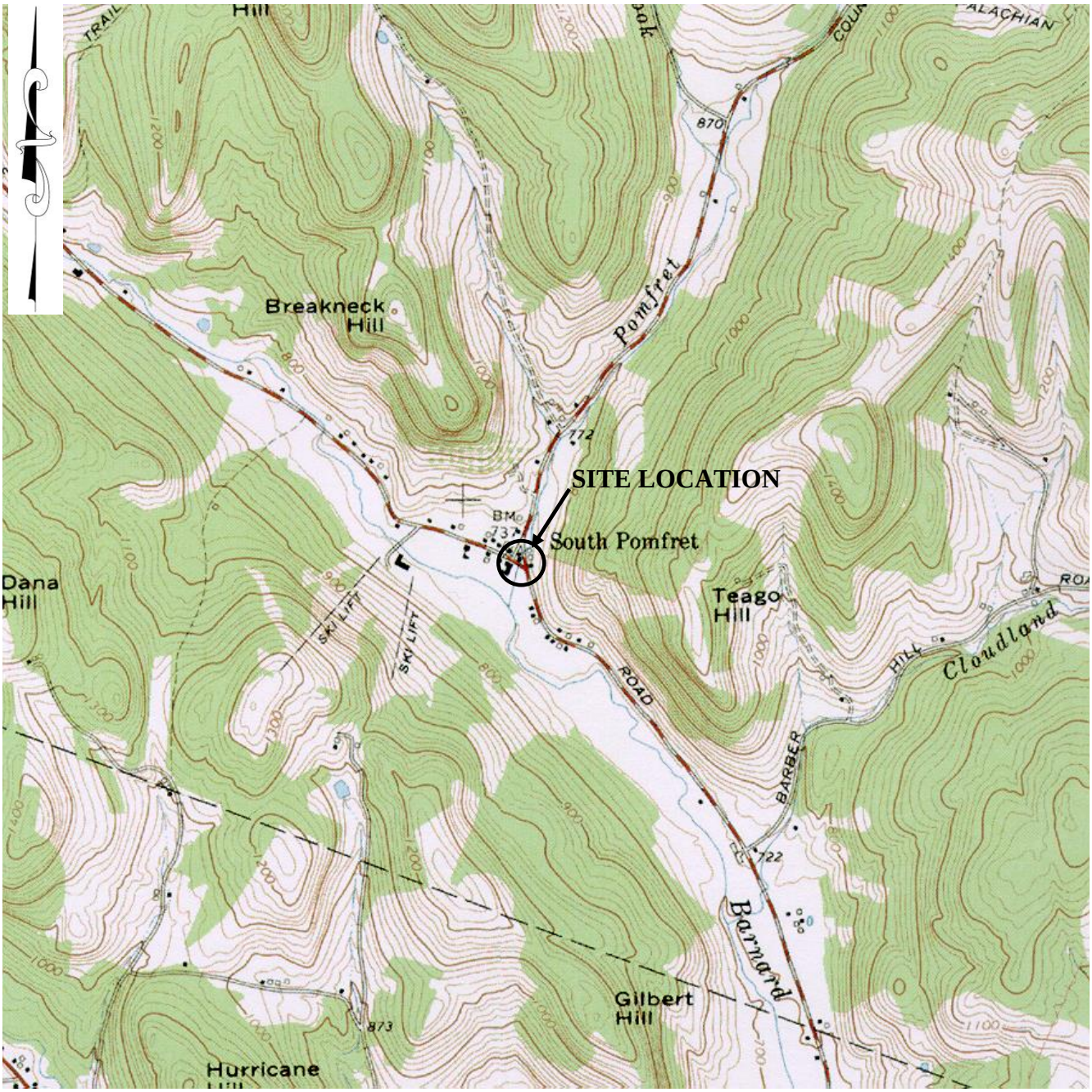
Enclosure:
Attachment 1: Site Location Map and Site Map with Soil Sample Locations
Attachment 2: Photographic Documentation
Attachment 3: UST Permanent Closure Form

CC: Charles Gunderson, Stage Road Enterprises, Inc.
KAS #401050156

Ms. Sue Thayer
August 10, 2017

# Attachment 1

## Site Location Map
## Site Map with Soil Sample Locations



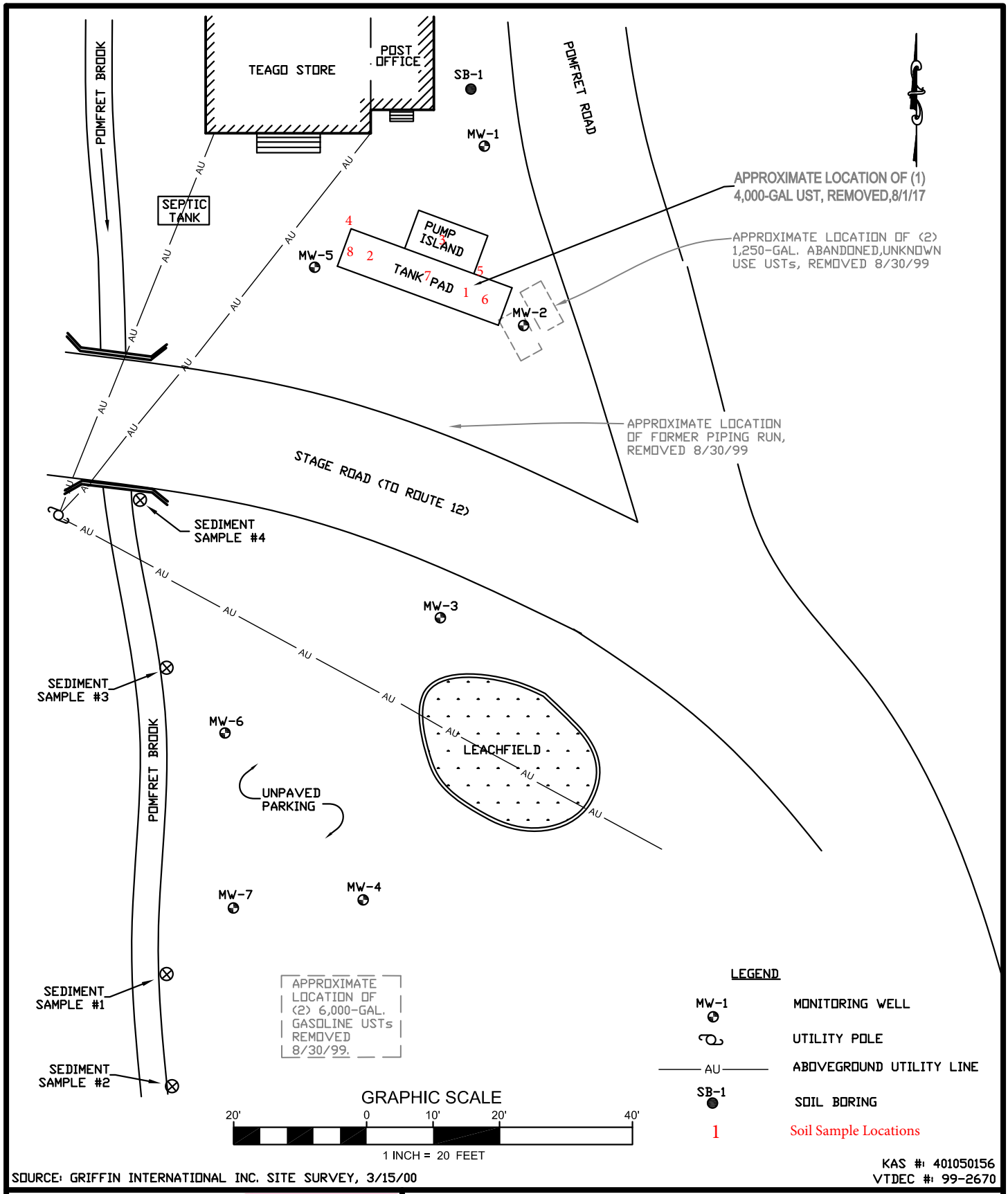

VTDEC Site #99-2670
KAS Job Number: 401050156
Source: USGS 7.5 minute quadrangle, Woodstock North, VT, dated 1966 and photorevised 1976.

# Site Location Map

**Teago Store**
**South Pomfret, VT**

Date: 08/03/17
By: SD

Scale: NTS




SOURCE: GRIFFIN INTERNATIONAL INC. SITE SURVEY, 3/15/00

KAS #: 401050156
VTDEC #: 99-2670

589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495
www.kas-consulting.com
802 383.0486 p
802 383.0490 f
kas environmental science & engineering

# TEAGO STORE

## 2035 STAGE ROAD, S. POMFRET, VT

## Site Map with Soil Sample Locations

| DATE: 10/12/16 | DWG.#: 1 | SCALE: 1"= 20' | DRN.: TB | APP.: SD |
|---|---|---|---|---|

Ms. Sue Thayer
August 10, 2017

# Attachment 2

# Photographic Documentation

**Photographic Documentation**
**UST Closure Assessment**
***Teago General Store***
***2035 Stage Road, South Pomfret, Vermont***
***KAS #401050156***

| | |
|---|---|
| Photograph ID: 001<br>Date: 8/1/2017<br>Location: Excavation Area<br><br>Comments:<br>View of Dispenser Island/Piping |  |
| Photograph ID: 002<br>Date: 8/1/2017<br>Location: Excavation Area<br><br>Comments:<br>Exterior view of UST #1999-1-2 |  |

**Photographic Documentation**
**UST Closure Assessment**
***Teago General Store***
***2035 Stage Road, South Pomfret, Vermont***
***KAS #401050156***

| | |
|---|---|
| Photograph ID: 003<br>Date: 8/1/2017<br>Location: Excavation Area<br><br>Comments:<br>Removal of UST #1999-1-2 and view of tank grave |  |
| Photograph ID: 004<br>Date: 8/1/2017<br>Location: Excavation Area<br><br>Comments:<br>UST #1999-1-2 removed |  |

Ms. Sue Thayer
August 10, 2017

# Attachment 3

# UST Permanent Closure Form

# Underground Storage Tank and Piping Closure Form



Vermont Agency of Natural Resources, Department of Environmental Conservation
Waste Management and Prevention Division
http://www.anr.state.vt.us/dec/wastediv/index.htm

**Important: All closures must be scheduled with the Underground Storage Tank Program at least 5 business days prior to the commencement of closure. Please call 802-828-1138**

## *Section A. Facility/Ownership Information*

**Facility ID #**: 4571626 **SMS #** (if applicable) **:** 99-2670

*To find if a facility has an ID # and/or SMS# please use WMID: http://www.anr.state.vt.us/wmid/. If there is no Facility ID then please contact the UST Program 802-828-1138.*

Facility Name: Teago General Store # of employee's 5

Street Address: 2035 Stage Road City/Town: South Pomfret

Type of Facility: ____Commercial/industrial; X Retail ____Residential; ____ Service Station; ____ Institutional; ____Farm; ____ Federal; ____ Bulk; ____ Fish Hatchery

Owner of UST(s) to be closed: Stage Road Enterprises, Inc. Owner Telephone: 802-457-1626

Owner mailing address: 2035 Stage Road, South Pomfret, Vermont

Owner Email: teagostore@gmail.com

Contact (if different from owner): Charles Gunderson Contact Telephone: 802-457-1626

Contact Email: _____

Landowner (if different than tank owner): _____

## *Section B. Closure Information*

What components will be closed/removed? UST system X; Tanks only_____; Piping only ____ .

Reason for closure/removal? Liability: X; Replacement: _____; Abandoned: _____; Suspected leak: _____.

| UST # | Product | Tank Age | Size (gal) | Tank condition (excellent, good, fair, poor) | Piping Age | Piping condition (excellent, good, fair, poor) | Proximity (ft.) of tanks to buildings / structures |
|---|---|---|---|---|---|---|---|
| 1999-1-2 | Gasoline | 18 | 4,000 | Excellent | 18 | Excellent | 10 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Have any tanks been closed in-place? UST # No Authorized by: _____ Date: _____

Type of material used to closed tank in place *(Water is not allowed)*: N/A

Disposal/destruction of removed UST(s) Location: Middlebury, VT Method: Cut/Clean Date: 8/1/17

Amount (gal) and type of waste generated from USTs: 35 gallons of tank bottom

***(Tank contents are hazardous wastes and must be handled as such unless recovered as usable product; sludge and solids are not usable/recyclable products and must be handled as hazardous waste. Please contact the Hazardous Waste program with any questions 802-828-1138).***

Tank cleaning company (must be trained in confined space entry): D&M Petroleum, Inc.

 **Facility ID #** 4571626

Certified hazardous waste hauler: NRC, Inc.

Generator ID #: Arranged by others

***Section C. Initial Site Characterization*** *(Work in this section must be completed by a professional environmental consultant or hydro geologist with experience in environmental sampling for the presence of hazardous materials. A full report from the consultant must accompany this form.*

Excavation Information. Some removals require more than one excavation. Identify as A, B, C, etc.

| Tank #, excavation A,B,C | Depth (ft.) | Excavation size (sq. ft.) | Peak PID reading | Depth of Peak (ft.) | Avg. PID reading | Bedrock depth (ft.) | Groundwater?(Y/N) and depth | Soil type |
|---|---|---|---|---|---|---|---|---|
| 1999-1-2 | 9 | 250 | 812 | 9 | 154.3 | N/A | Yes - 7 ft | Sand/Gravel |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

***Locate all readings and samples on a site diagram and submit with this form and site assessment***

Dig Safe # Arranged by others

PID Make: MiniRae Model: Lite Calibration (date/time/gas) 8/1/17;08:30;isobutylene

Have any soils been polyencapsulated on site? X NO; ____YES # cubic yds: _____

PID range > zero: _____ppm to_____ppm

Have any soils been transported off site? _____NO; _____YES # cubic yds: _____

Location transported to: _____ Approved by: _____

Amount of soil backfilled (cubic yds.): Unknown PID range > zero: _____ppm to_____ppm

Have limits of contamination been defined? ____NO; X YES. Other on-site contamination? ____NO; ____YES

Is contamination in contact with building foundation? X No; _____Yes, If Yes, PID reading; _____ppm

Number of soil samples collected for laboratory analysis: None Results due date: _____

Free Phase product encountered? _____NO; X YES Thickness: _____ Sheen: Yes

Groundwater encountered? _____NO; X YES Depth: 7.0

Are there existing monitoring wells on-site? _____NO; X YES How many? 7 (Locate on site diagram)

Have new monitoring wells been installed? X NO; _____YES (Locate on site diagram)

Samples obtained from monitoring wells for lab analysis? X NO; _____YES Results due date: _____

Is there a water supply well on site? ____NO; X YES Type: X Shallow; _____Rock; _____Spring

Number of public water supply wells located within 0.5-mile radius: 14 Min. distance (ft); _____

Receptors impacted:

X Soil; _____Indoor Air; ____ Ambient Air; X Groundwater; ____Surface Water; ____Water Supply

 **Facility ID** 4571626

**Any release must be reported immediately by calling 802-828-1138 (if after hours please call 800-641-5005)**

Name of WMPD staff that the release was reported to: Time Cropley Date: 8/1/17

Spill # (issued by WMPD staff when release is reported): N/A

***Section D: Tanks and Piping Remaining or to be Installed***. Regardless of size or use, list all USTs and ASTs currently at facility or to be installed at facility. For "Tank Status," indicate "abandoned," "in use," or "to be installed*." This includes any UST/ASTs used to store fuel for heat at a public building (*propane tanks do not need to be listed)*

| Tank # | UST or AST? | Product | Size (gallons) | Tank Use (heat, backup generator, etc) | Tank age | Tank Status | Piping age | Piping Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

***Note: Some installations may require permits and advance notice to the UST Program. Please call the UST Program with any questions 802-828-1138**

***Section E. Statements of UST closure compliance***

I, Sam Driver (Please print name), as the environmental consultant on-site, I hereby certify that the site assessment requirements were performed in accordance with DEC policy and regulations, and that information which I have provided on this form is true and correct to the best of my knowledge.

Signature: Sam Driver

Company: KAS, Inc. Telephone#: 802-383-0486

Date of Assessment: 8/1/17 Date of Closure: 8/1/17

Return this form along with complete narrative report and photographs to the Department of Environmental Conservation (DEC), Underground Storage Tank Program within **10 days of closure**. Do not delay submission of the site assessment if waiting for lab analysis results. Labs can be emailed separately.

An electronic version of the report from an environmental consultant covering all aspects of closure and site assessment, complete with photographs and any other relevant data, must accompany this form and be emailed to WMPD or uploaded on the WMPD FTP server. Please DO NOT SUBMIT PAPER COPIES.

All procedures must be conducted by qualified personnel, to include training required by 29 CFR 1910.120. Documentation of all methods and materials used must be adequate. All work must be performed in compliance with DEC policy "UST Closure and Site Assessment Requirements" as well as all applicable statutes, regulations, and additional policies. The DEC may reject inadequate closure forms and reports.

# Teago General Store
# 2035 Pomfret Road
# South Pomfret, Vermont

**VTDEC #99-2670**
**KAS #401050156**

## AUGUST 2018 LONG TERM GROUNDWATER MONITORING REPORT

October 12, 2018

Prepared for:

Pomfret Road General Store, LLC
P.O. Box 163
South Pomfret, Vermont 05607

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802 383.0486 p
802 383.0490 f

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## Appendices

**Appendix A** 1) Site Location Map
2) Site Vicinity Map
3) Site Map
4) Groundwater Contour Map
5) Groundwater VOC Concentration Map

**Appendix B** Liquid Level Monitoring Data

**Appendix C** Groundwater Quality Summary

**Appendix D** Analytical Laboratory Report

**Appendix E** VTDEC Checklist

## Certification

This report, which summarizes the August 2018 groundwater monitoring event conducted at the Teago General Store property, located at 2035 Pomfret Road and the vacant lot located at 43 Stage Road in South Pomfret, Vermont, State of Vermont Department of Environmental Conservation Site #99-2670, has been prepared and reviewed by the following personnel.

We certify under penalty of perjury that this report was reviewed by an environmental professional and that all content contained within this deliverable is to the best of our knowledge true and accurate.

Prepared By:

Sam Driver
Project Manager, EP

Reviewed By:

Jeremy Roberts, PG
Principal/Environmental Program Manager

## Executive Summary

The August 2018 groundwater monitoring event has been completed by KAS, Inc. (KAS) at the Teago General Store property, located at 2035 Pomfret Road and the vacant lot located at 43 Stage Road in South Pomfret, Vermont which included the collection of water level measurements and a groundwater sample from monitoring well MW-3.

Based on the results of the August 22, 2018 groundwater sampling event, select Volatile Organic Compounds (VOCs) were reported above laboratory method detection limits in MW-3 but below their respective Vermont Groundwater Enforcement Standards (VGES). As compared to results from the August 2016 sampling event, a decrease in total VOC concentrations was noted in the groundwater sample collected from MW-3 and concentrations are currently at their lowest reported level to date. Additionally, VOCs appear to be demonstrating an overall long-term declining trend at MW-3.

Based on current and historical groundwater analytical data collected from the monitoring well network over time, it appears the dissolved-phase plume is centered on MW-3, which is located on the vacant lot. Historically, low to non-detectable concentrations of VOCs have intermittently been detected in several of the surrounding monitoring wells (MW-1, MW-2, MW-5 and MW-7); however, the dissolved phase plume appears to be contained within the current monitoring well network and is not believed to be migrating at this time. KAS is recommending that no additional work be required at this time and that the Site be considered for sites management activity complete (SMAC) designation.

# 1.0 Introduction and Background

This report summarizes the August 2018 groundwater monitoring event conducted at the Teago General Store property located 2035 Pomfret Road in South Pomfret, Vermont and the vacant lot across Stage Road located at 43 Stage Road in South Pomfret, Vermont ("Site"). The Site consists of two parcels owned by the responsible party. A Site Location Map is included in Appendix A. Previous reports documenting the Site history and previous investigative/monitoring work conducted at the Site are on file at the Vermont Department of Environmental Conservation (VTDEC) in Montpelier, Vermont. This document was prepared according to current VTDEC requirements as presented in the Investigation and Remediation of Contaminated Properties Rule (I-Rule) document dated July 27, 2017. The VTDEC checklist is included in Appendix E.

Petroleum impacted soils were encountered during the replacement of several underground storage tank closure (UST) and their associated piping components in August 1999. As a result, an initial site investigation (ISI) was conducted to define the degree and extent of petroleum impacts in the vicinity of the removed USTs which included the installation of several monitoring wells. Subsequent investigations were conducted in August and December 2000. Currently, groundwater monitoring at the Site is conducted on an annual biennial basis.

KAS reviewed historical Site information on the Vermont Agency of Natural Resources (VT ANR) online natural resources atlas, (http://anrmaps.vermont.gov/websites/anra5/)[1]. The property had operated as a gasoline filling station since at least 1983 when two 6,000-gallon gasoline USTs were installed. Two additional USTs were installed at an unknown time and were removed in 1999. A second generation of gasoline USTs were installed in 1999 which replaced the USTs installed in 1983. The second generation of gasoline USTs were removed in 2017. No USTs currently reside on the property. The latest groundwater monitoring event was conducted in accordance with KAS' work scope and cost estimate dated February 27, 2018, which was approved by Mr. Gerold Noyes of the VTDEC on March 1, 2018.

# 2.0 Groundwater Monitoring

## *2.1 Determination of Groundwater Flow Direction and Gradient*

Depth-to-liquid measurements were collected from three (MW-2, MW-3 and MW-7) monitoring wells on August 22, 2018 using a Geotech™ interface probe (IP) in accordance with KAS Protocol #003[2]. Depth to groundwater was not measured at MW-1, MW-4 and MW-5 because these wells were not located and MW-6 was observed to be under water. The depth to groundwater ranged from 4.52 feet below top of casing (btoc) in MW-2 to 7.95 feet btoc in MW-7 and the elevations were higher, with the exception of MW-7, than measurements collected during the previous sampling event. The depth to groundwater measurements were subtracted from the top-of-casing elevations to obtain the relative water table elevation. The casing elevations were determined relative to an arbitrary datum of 100 feet previously established at the top of casing for MW-3. Liquid level monitoring data, both current and historical, are presented in Appendix B. No non-aqueous liquid (NAPL) was observed in any site-related monitoring well on August 22, 2018. During the August 22, 2018 monitoring event several road boxes were observed to be in poor condition.

[1] VT ANR online UST database
[2] KAS Protocol #003: Use and Maintenance of Electronic Interface Probes and Water Level Indicators, revised December 2010

Groundwater elevations collected during this monitoring event were plotted and contoured to illustrate the estimated gradient and direction of groundwater flow beneath the Site (Groundwater Contour Map, Appendix A). Based on the data collected, groundwater flow is towards the west at a hydraulic gradient of 5.4%. Groundwater flow appears to vary at and in the vicinity of the Site depending on seasonal fluctuations and previous groundwater flow estimates showed several flow directions and gradients. However, given the location of the nearby Pomfret Brook, in general, the groundwater flow and gradient has remained consistent over time.

## *2.2 Groundwater Sample Collection and Analysis*

On August 22, 2018, a groundwater sample was collected from one monitoring well: MW-3. A groundwater sample was not collected from MW-2 as a large puddle was in close proximity to the well. As a result, and in an effort to prevent surface water entering the aquifer, MW-2 was closed prior to collecting a groundwater sample. A groundwater sample was not collected from MW-5 due to this well not being located. The remaining monitoring wells have been removed from the sampling schedule due to their continued low to non-detectable levels of VOCs reported. The groundwater sample was collected according to KAS Protocol #006[3] and #011[4], stored on ice in the field, and submitted to Endyne, Inc. of Williston, Vermont under proper chain-of-custody procedures. The groundwater sample was analyzed for the major petroleum VOCs per EPA Method 8021B. The results along with the historical groundwater quality data are tabulated and graphed in Appendix C and compared with the applicable VGES. The laboratory report is presented in Appendix D.

*Analytical Results and Trend Analysis*

Based on the results of the August 22, 2018 groundwater sampling event, select VOCs were reported above laboratory method detection limits in MW-3 but below their respective VGES. As compared to data from the August 2016 sampling event, a decrease in total VOC concentrations was noted in the groundwater sample collected from MW-3 and concentrations are currently at their lowest reported level to date. Overall, dissolved-phase VOCs appear to be demonstrating an overall long-term declining concentration trend. The figure below (Figure 1) is the concentration of total VOCs in MW-3 over time using a concentration linear trend generated by the Groundwater Spatio-Temporal Data Analysis Tool (GWSDAT Version 2.1). The solid green line shows the trend estimate and the dashed green lines are the 95% confidence intervals. The statistical significance of this trend is assessed using the Mann-Kendall trend test. If the Mann-Kendall p-value is below 0.05, then the estimated trend is statistically significantly different from 0, meaning that there is a trend within the data (GWSDAT User Manual v2.1). The Mann-Kendall p-value for monitoring well is as follows: MW-3 p-value=<0.01; which is less than 0.05, indicating a clear downward trend

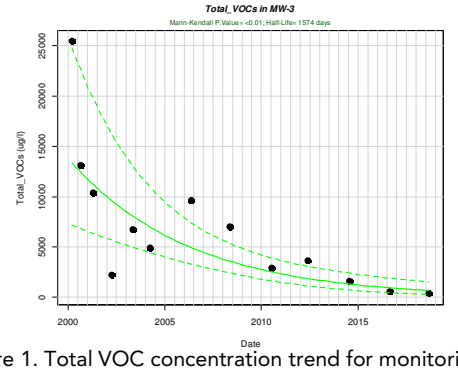


Figure 1. Total VOC concentration trend for monitoring well MW-3

[3] KAS Protocol #006: Sample Containerization, Preservation, Handling and Packaging, revised December 2010
[4] KAS Protocol #011: Monitoring Well Sampling with Bailers, revised January 2011

*Dissolved-Phase VOC Distribution*

Reported concentrations of total targeted VOCs per Method 8021B were plotted on the Site Map to create the Groundwater VOC Concentration Map in Attachment A. Based on current and historical groundwater analytical data collected from the monitoring well network over time, it appears the dissolved-phase plume is centered on MW-3, which is located on the vacant lot. Historically, low to non-detectable concentrations of VOCs have intermittently been detected in several of the surrounding monitoring wells (MW-1, MW-2, MW-5 and MW-7); however, the dissolved phase plume appears to be contained within the current monitoring well network and is not believed to be migrating at this time.

Quality Assurance and Quality Control

The groundwater samples obtained during this study were collected in accordance with KAS' groundwater sampling protocol. VOCs were not detected in the trip blank sample prepared on August 22, 2018. A duplicate sample was obtained at monitoring well MW-3. The relative percent difference (RPD) values are low, and indicate that adequate quality assurance and control were maintained during sampling, transporting, and analysis. The RPD is defined as 100 times the difference between the actual and duplicate sample, divided by the mean of the two samples. A low RPD indicates a good correlation between the two samples, while a high RPD indicates a poor correlation. The RPD values ranged from 4.7% to 20.4%. The overall RPD value was 11.5%. This data is presented in Appendix C.

# 3.0 Updated Conceptual Site Model

## *3.1 Site Conditions and Property History*

The Site is located on the north and south side of Stage Road in South Pomfret, Vermont (Appendix A). The on-site building is used as a convenience store and the South Pomfret Post Office. Topography of the Site property is generally flat with less than 5% slope. The area immediately around the on-site building consists primarily of a gravel parking lot.

Adjacent nearby properties as of August 2018 consist of commercial/recreational/residential developments as follows:

- North: Library Street/Pomfret Road followed by Artist Tree Community
- South: Stage Road followed by unpaved parking/picnic area
- West: Pomfret Brook followed by residential houses
- East: Pomfret Road followed by residential houses

## *3.2 Geology*

The soils beneath the Site are mapped as glacial deposit consisting of sand and gravel according to the *Surficial Geologic Map of Vermont*[5]. Soils encountered during monitoring well installation consisted of well graded sand with some silt and gravel. Bedrock beneath the Site is mapped as dark-gray to silvery-gray, lustrous, carbonaceous muscovite-biotite-quartz phyllite containing abundant beds of punky-brown-weathering, dark-bluish-gray micaceous quartz-rich limestone in

[5] Doll, Charles G., ed., 1970, *Surficial Geologic Map of Vermont*, Vermont Geological Survey

beds of the Connecticut Valley Trough belt of the Waits River Formation according to the *Centennial Geologic Map of Vermont*[6]. Bedrock was not encountered during the installation of site monitoring wells.

### *3.3 Hydrogeology*

Depth to groundwater beneath the Site has been observed to range from from approximately 4 to 7 feet bsg and based on the data collected, groundwater flow is towards the west at a hydraulic gradient of 5.4%. Groundwater flow appears to vary at and in the vicinity of the Site depending on seasonal fluctuations and previous groundwater flow estimates showed several flow directions and gradients. However, given the location of the nearby Pomfret Brook, in general, the groundwater flow and gradient has remained consistent over time.

### *3.4 Apparent Source of Release*

Petroleum impacted soils were encountered during the replacement of several USTs and their associated piping components in August 1999. Specifically, petroleum impacted soils were encountered between the former pump island and the two 6,000-gallon gasoline USTs and within the excavation of the 4,000-gallon gasoline UST. No other potential sources on or off site are known to exist or have been identified at this time.

### *3.5 Contaminant Fate and Transport*

Based on current and historical groundwater analytical data collected from the monitoring well network over time, it appears the dissolved-phase plume is centered on MW-3, which is located on the vacant lot. Historically, low to non-detectable concentrations of VOCs have intermittently been detected in several of the surrounding monitoring wells (MW-1, MW-2, MW-5 and MW-7); however, the dissolved phase plume appears to be contained within the current monitoring well network and is not believed to be migrating at this time.

## 4.0 Updated Sensitive Receptor Risk Assessment

An updated sensitive receptor risk assessment of the area surrounding the Site is provided below, and a determination of the potential risk to identified receptors has been made based on proximity to the dissolved phase plume, groundwater flow direction, VOC mobility and volatility, and VOC concentrations in subsurface soils and groundwater. The following potential sensitive receptors have been identified:

### *4.1 Buildings in the Vicinity*

The nearest on-site building is the convenience store/post office located approximately 13 feet to the north of the source area. The on-site structure is slab on grade construction and lies in an up-gradient to cross-gradient orientation to the source area, and does not contain a basement. Given the construction and depth of impacted soil, the immediate and future risk to the building from the migration of petroleum vapors is considered to be low.

The nearest off-site building is a residential building located approximately 75 feet to the east and in an up-gradient orientation to the source area. It is unclear if this structure contains a basement; however, given its orientation to the source area and the overall low strength of the dissolved phase

[6] Doll, Charles G., ed., 1961, *Centennial Geologic Map of Vermont*, Vermont Geological Survey

plume, the immediate and future risk to the building from the migration of petroleum vapors is considered to be low.

### *4.2 Water Supplies*

According to the Agency of Natural Resources website (http://anrmaps.vermont.gov/websites/anra/) there are six private supply wells and one public water source identified within a 1,000 ft radius of the source area. The nearest private supply well (Tag#: 23330) is located approximately 160 feet northeast and upgradient of the source area. The public water source (VT0021398) is located approximately 400 feet north and cross/up-gradient to the source area. Based on the data collected to date, it is not believed that these water supplies are at risk to petroleum impacts given their distance and orientation to the source area.

The Teago Store is served by a private well located in the basement, and is approximately 120 feet deep. A water sample was collected from the Teago Store Supply well on March 15, 2000. The sample was submitted for analysis of VOCs via EPA Method 524.2. None of the compounds targeted by this analysis were detected in the supply well sample collected on March 15, 2000. Based on the data collected to date, it is not believed that this supply well is at risk to petroleum impacts.

### *4.3 Utility Corridors*

The area surrounding the Teago Store is serviced by private supply wells and septic systems. The septic system for the on-site building contains a holding tank located approximately 15 feet west of the source area which is connected (via piping) to a leachfield located across Stage Road and just south of monitoring well MW-3, where the highest impacts have been documented to be. The presumed buried depth of this utility is believed to be within the depth of the groundwater table. Given this information, a potential exists this utility line could potentially provide a preferential pathway for the migration of dissolved-phase petroleum constituents to travel off-site. However, the sewer line ultimately leads to a leach field on the property, therefore migration of impacts along the utility line is limited. Furthermore, because no unexplained spikes of VOC concentrations have been recorded in the monitoring wells located downgradient to the leach field (MW-4, MW-6 and MW-7) for utility migration is considered to be low. Electrical and telephone utilities are located overhead in the region of the Site and do not act as utility corridors for petroleum migration.

### *4.4 Surface Waters*

The nearest surface water is Pomfret Brook located approximately 40 feet west of the Site. Historically, no petroleum sheens or odors have been observed on the water surface or from seeps along the stream banks. Furthermore, given the current and historical groundwater analytical data collected from monitoring wells MW-6 and MW-7, the current risk posed to this surface water body is considered to be low at this time. One Class II wetland is observed within a 1,000-foot radius of the Site, specifically to the southwest approximately 700 feet away from the source area. Due to its distance, KAS does not believe there is risk of petroleum impacts to this Class II wetland.

### *4.5 Potential Exposure Pathways*

Potential exposure pathways to the subsurface petroleum impacts identified beneath the Site have been evaluated. Routes of potential exposure to current and future Site users include inhalation of vapors or petroleum impacted dust; ingestion of soil; absorption via dermal contact; and/or ingestion of soil or groundwater. Impacted soils beneath the property have been identified to be present several feet below grade and are currently capped by several feet of non-impacted soil. Should the property use change in the future, the identified potential exposure pathways will need to be reevaluated to confirm adequate protection to human health is being accomplished.

## 5.0 Conclusions

Based on the results of the August 2018 groundwater monitoring event conducted at the Teago General Store property located in South Pomfret, Vermont, KAS presents the following conclusions:

1. The depth to groundwater ranged from 4.52 feet btoc in MW-2 to 7.95 feet btoc in MW-7, and the elevations were higher, with the exception of MW-7, than measurements collected during the previous sampling event;

2. Overall, groundwater flows toward the west at a hydraulic gradient of 5.4%. Groundwater flow appears to vary at and in the vicinity of the Site depending on seasonal fluctuations and previous groundwater flow estimates showed several flow directions and gradients. However, given the location of the nearby Pomfret Brook, in general, the groundwater flow and gradient has remained consistent over time;

3. Select VOCs were reported above laboratory method detection limits in MW-3 but below VGES. As compared to data from the August 2016 sampling event, a decrease in total VOC concentrations was noted in the groundwater sample collected from MW-3 and concentrations are currently at their lowest reported level to date. Additionally, VOCs appear to be demonstrating an overall long-term declining concentration trend in MW-3;

4. Based on current and historical groundwater analytical data collected from the monitoring well network over time, it appears the dissolved-phase plume is centered on MW-3, which is located on the vacant lot. Historically, low to non-detectable concentrations of VOCs have intermittently been detected in several of the surrounding monitoring wells (MW-1, MW-2, MW-5 and MW-7); however, the dissolved phase plume appears to be contained within the current monitoring well network and is not believed to be migrating at this time; and,

5. Based on the data collected to date, significant off-site migration of the dissolved phase VOC plume and potential impact to neighboring properties is considered low.

## 6.0 Recommendations

Based on the results of the August 2018 groundwater monitoring event conducted at the Teago General Store property located in South Pomfret, Vermont, KAS recommends the following:

- Due to the low to non-detectable concentrations of VOCs detected in several monitoring wells (MW-1, MW-2, MW-5 and MW-7) surrounding MW-3 and because the dissolved phase plume appears to be contained within the current monitoring well network and is not believed to be migrating at this time, KAS is recommending that no additional work be required at this time and that the Site be considered for sites management activity complete (SMAC) designation;

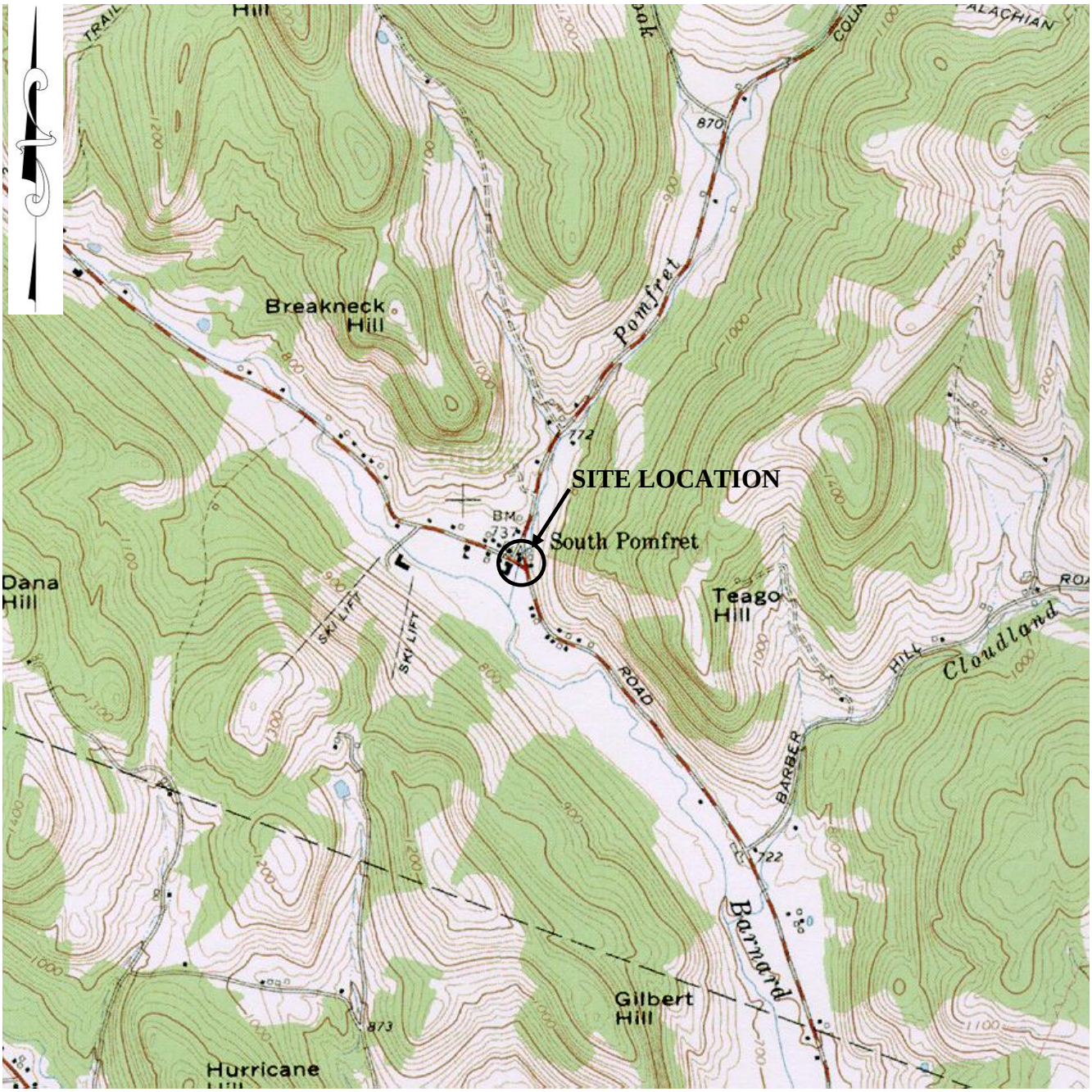
- Prior to SMAC designation, all wells will be properly closed in accordance with the Vermont Water Supply Rule;

- After SMAC designation is completed, a copy of the designation will be recorded in the municipal land records of South Pomfret, Vermont; and,

- A work plan and cost estimate to conduct this work can be prepared upon request.

# Appendix A

1) Site Location Map
2) Site Vicinity Map
3) Site Map
4) Groundwater Contour Map
5) Groundwater VOC Concentration Map




VTDEC Site #99-2670
KAS Job Number: 401050156
Source: USGS 7.5 minute quadrangle, Woodstock North, VT, dated 1966 and photorevised 1976.

kas environmental science & engineering

# Site Location Map

**Teago Store**
**South Pomfret, VT**

Drawing:
Date: 08/29/14
By: SD

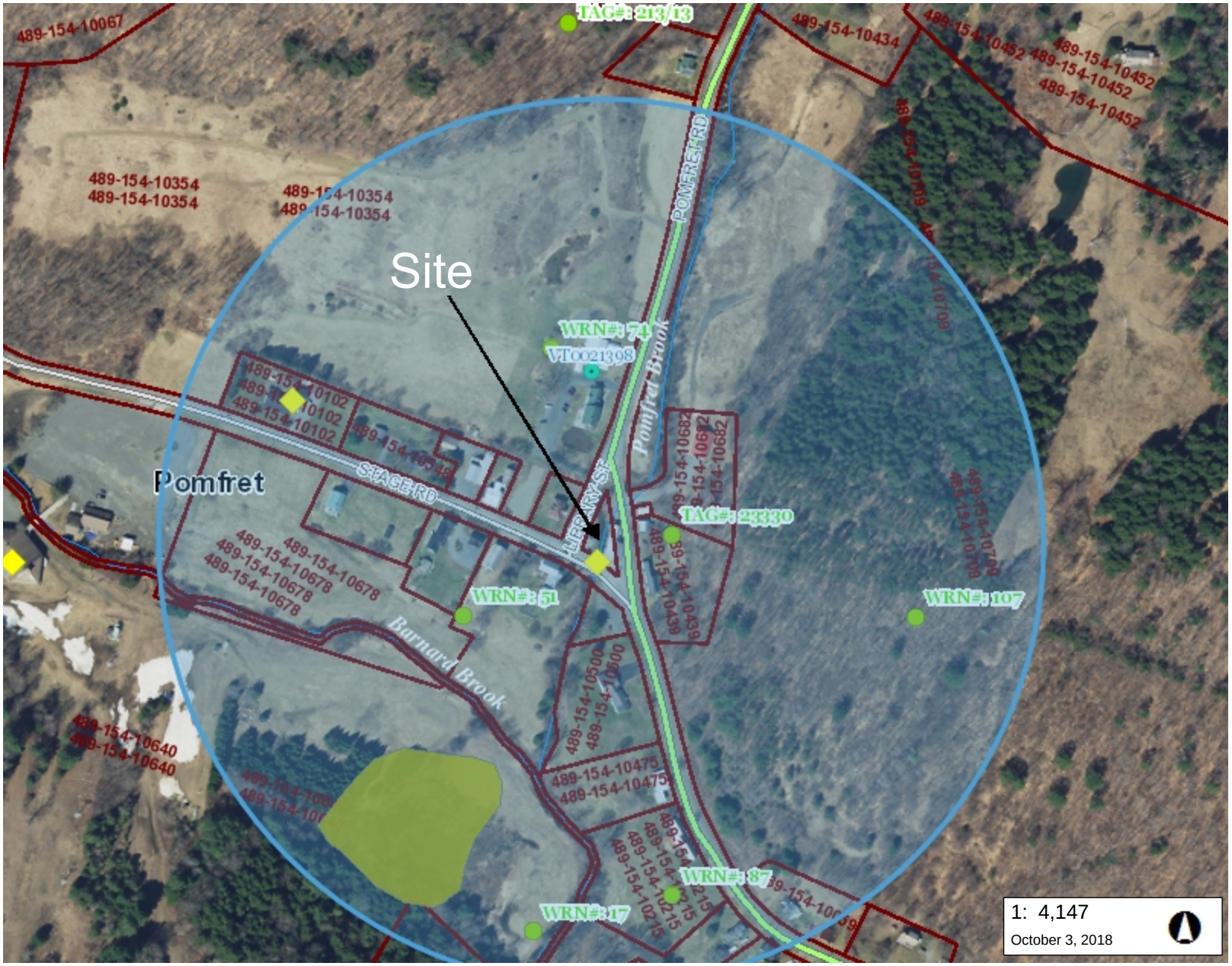
Scale: 1"=2,000'

VERMONT

# Site Vicinity Map

Vermont Agency of Natural Resources

**vermont.gov**







## LEGEND

- Wetland - VSWI
  - Class 1 Wetland
  - Class 2 Wetland
  - Buffer
- Hazardous Site
- Private Wells
  - GPS Location
  - screen digitized
  - E911 Address
  - Map
  - Unknown
- Public Water Sources
  - Active
  - Proposed
  - Inactive
- Parcels (Standardized)
- Roads
  - Interstate
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Minor Collector
  - Local
  - Not part of function Classification S
- Waterbody
- Stream
- Parcels (Non-Standardized)

## NOTES

Teago General Store
2035 Pomfret Road
South Pomfret, VT; SMS#96-2670

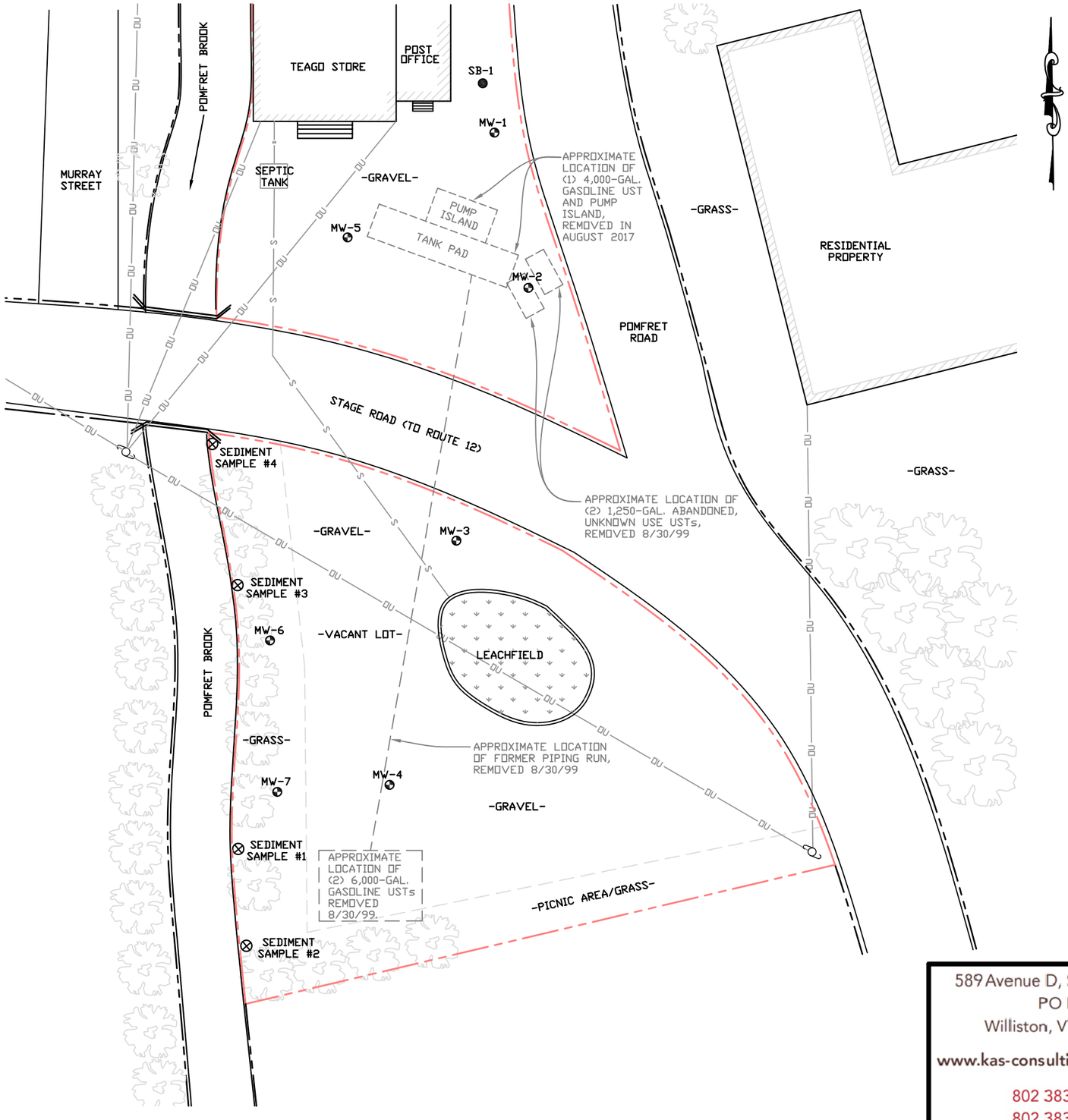
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WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 346 Ft. 1cm = 41 Meters

© Vermont Agency of Natural Resources

THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.




LEGEND

- MW-2 — MONITORING WELL
- UTILITY POLE
- CATCH BASIN
- TREE/BUSH
- SUBJECT SITE PROPERTY LINE
- PROPERTY LINE
- OU — OVERHEAD UTILITY LINE
- S — SEWER LINE

GRAPHIC SCALE

20' 0 10' 20' 40'

1 INCH = 20 FEET

NOTES:
1. BASE MAP DEVELOPED FROM GRIFFIN INTERNATIONAL INC. SITE SURVEY, 3/15/00, PARCEL DATA FROM VT ANR NATURAL RESOURCES ATLAS MAPPING TOOL, AND FIELD OBSERVATIONS.
2. ALL UTILITES AND PROPERTY LINES ARE CONSIDERED APPROXIMATE.

KAS #:401050156
VTDEC #:99-2670

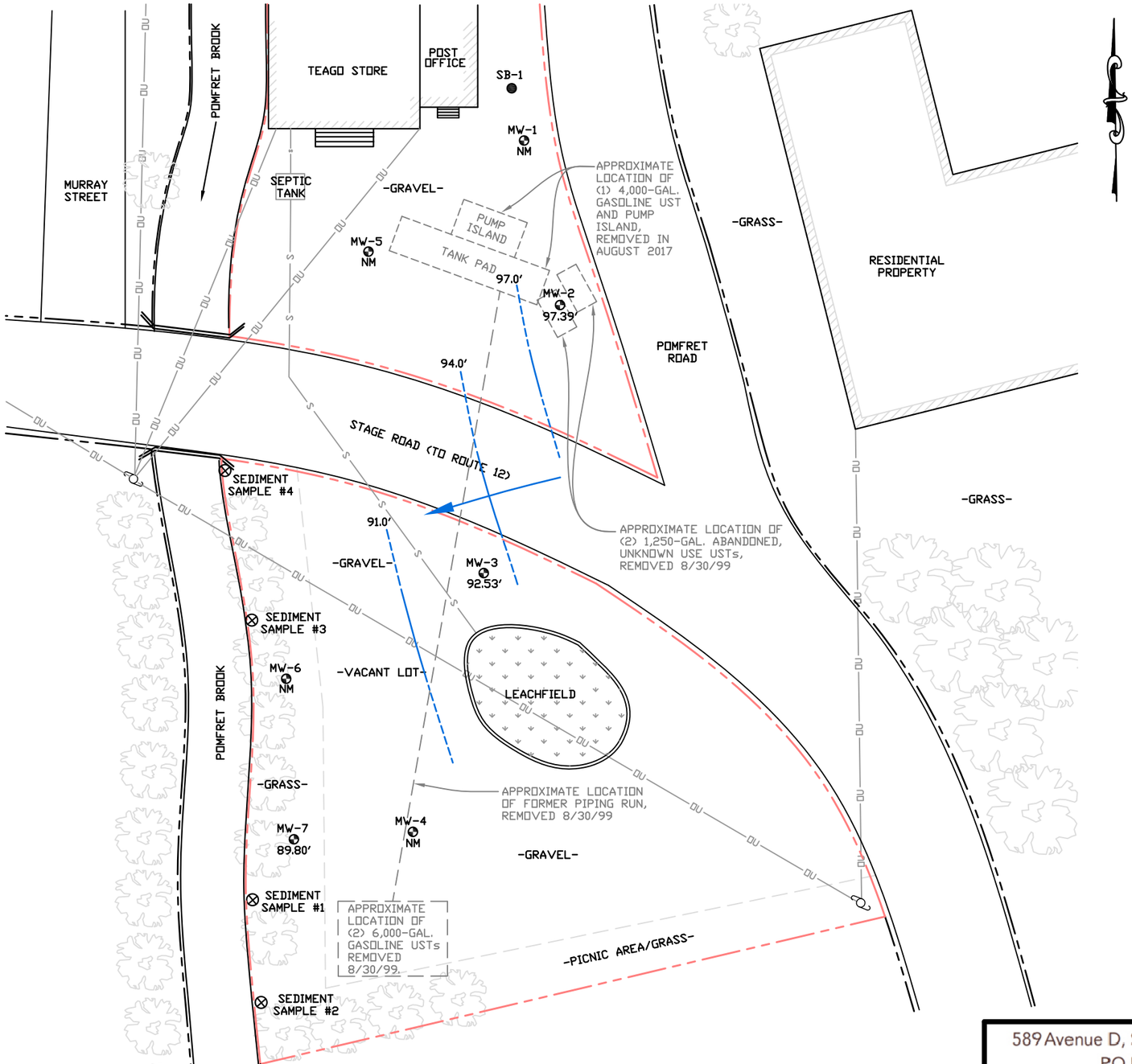
589 Avenue D, Suite 10
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Williston, VT 05495
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802 383.0486 p
802 383.0490 f

kas environmental science & engineering

# TEAGO STORE
## 2035 STAGE ROAD
## SOUTH POMFRET, VERMONT

SITE MAP

| DATE: 10/12/18 | DWG. #: 1 | SCALE: 1"=20' | DRN.: TB | APP.: SD |
|---|---|---|---|---|




## LEGEND

| | |
|---|---|
| MW-2 97.39' | MONITORING WELL WITH GROUNDWATER ELEVATION (FT) |
| NM | NOT MEASURED |
| 90.0' | GROUNDWATER ELEVATION CONTOUR (FT) DASHED WHERE INFERRED) |
| | APPROXIMATE GROUNDWATER FLOW DIRECTION |
| | UTILITY POLE |
| | CATCH BASIN |
| | TREE/BUSH |
| | SUBJECT SITE PROPERTY LINE |
| | PROPERTY LINE |
| OU | OVERHEAD UTILITY LINE |
| S | SEWER LINE |

GRAPHIC SCALE

20' 0 10' 20' 40'

1 INCH = 20 FEET

NOTES:
1. BASE MAP DEVELOPED FROM GRIFFIN INTERNATIONAL INC. SITE SURVEY, 3/15/00, PARCEL DATA FROM VT ANR NATURAL RESOURCES ATLAS MAPPING TOOL, AND FIELD OBSERVATIONS.
2. ALL UTILITES AND PROPERTY LINES ARE CONSIDERED APPROXIMATE.

KAS #:401050156
VTDEC #:99-2670

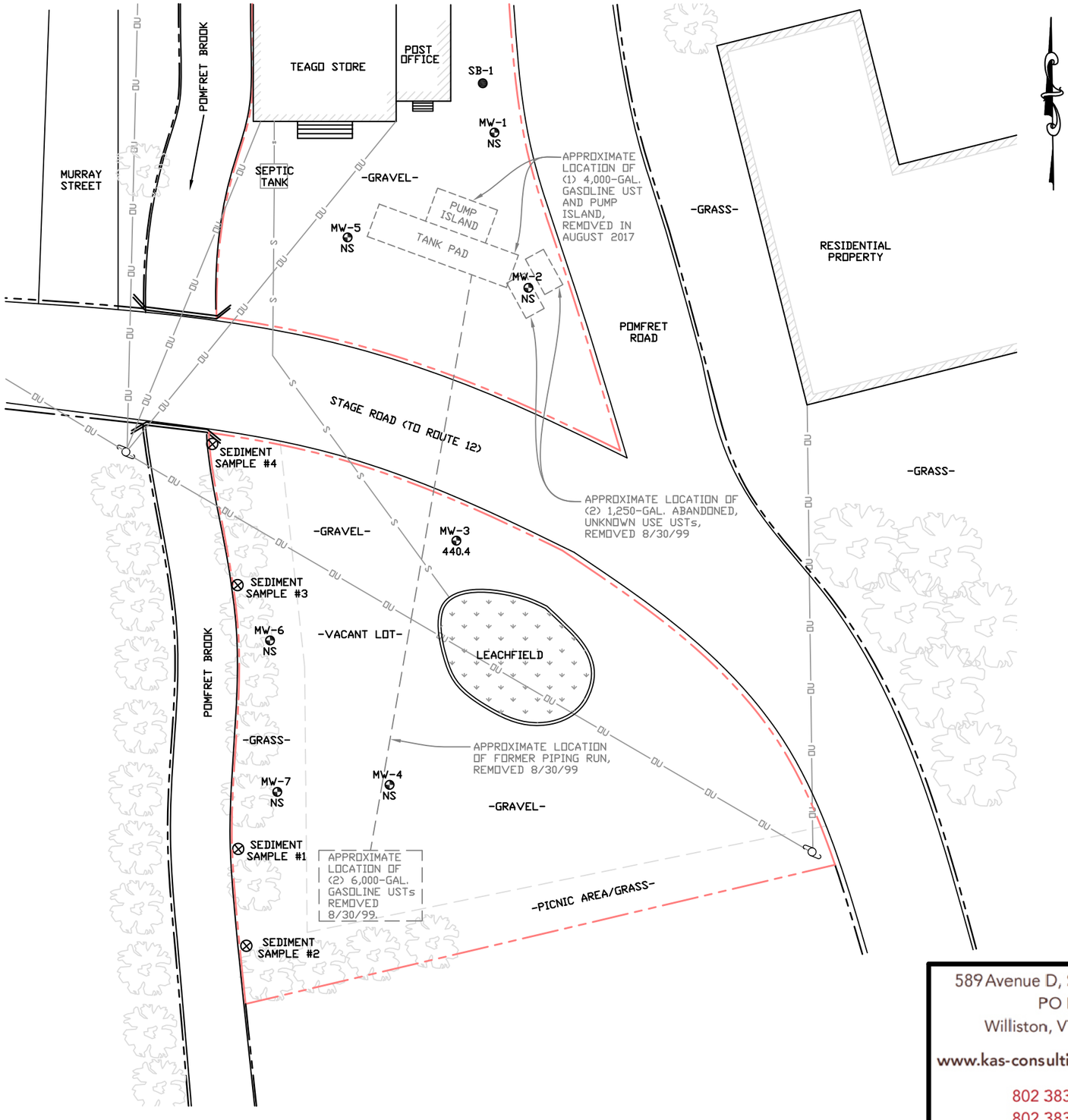
589 Avenue D, Suite 10
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Williston, VT 05495
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802 383.0486 p
802 383.0490 f

kas environmental science & engineering

# TEAGO STORE
## 2035 STAGE ROAD
## SOUTH POMFRET, VERMONT

GROUNDWATER CONTOUR MAP
MEASURED: 8/22/18

| DATE: 10/12/18 | DWG. #: 2 | SCALE: 1"=20' | DRN.: TB | APP.: SD |
|---|---|---|---|---|




## LEGEND

| | |
|---|---|
| MW-2 NS | MONITORING WELL WITH TOTAL TARGETED VOC CONCENTRATION (ug/L; M=8021B) |
| NS | NOT SAMPLED |
| | UTILITY POLE |
| | CATCH BASIN |
| | TREE/BUSH |
| | SUBJECT SITE PROPERTY LINE |
| | PROPERTY LINE |
| OU | OVERHEAD UTILITY LINE |
| S | SEWER LINE |

GRAPHIC SCALE

20' 0 10' 20' 40'

1 INCH = 20 FEET

NOTES:
1. BASE MAP DEVELOPED FROM GRIFFIN INTERNATIONAL INC. SITE SURVEY, 3/15/00, PARCEL DATA FROM VT ANR NATURAL RESOURCES ATLAS MAPPING TOOL, AND FIELD OBSERVATIONS.
2. ALL UTILITES AND PROPERTY LINES ARE CONSIDERED APPROXIMATE.

KAS #:401050156
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# TEAGO STORE
## 2035 STAGE ROAD
## SOUTH POMFRET, VERMONT

GROUNDWATER: VOC CONCENTRATION MAP
SAMPLED: 8/22/18

| DATE: 10/12/18 | DWG. #: 3 | SCALE: 1"=20' | DRN.: TB | APP.: SD |
|---|---|---|---|---|

# Appendix B

# Liquid Level Monitoring Data

# Summary of Liquid Level Data

**Measurement Date: 08/22/18**

| Well I.D. | Well Depth btoc | Top of Casing Elevation | Depth To Product btoc | Depth To Water btoc | Product Thickness | Specific Gravity Of Product | Water Equivalent | Corrected Depth To Water | Corrected Water Table Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW1 | 14.3 | 101.93 | - | NM | - | - | - | - | **NM** |
| MW2 | 12.8 | 101.91 | - | 4.52 | - | - | - | - | **97.39** |
| MW3 | 14.5 | 100.00 | - | 7.47 | - | - | - | - | **92.53** |
| MW4 | 14.4 | 99.92 | - | NM | - | - | - | - | **NM** |
| MW5 | 15 | 97.75 | - | NM | - | - | - | - | **NM** |
| MW6 | 15 | 99.92 | - | NM | - | - | - | - | **NM** |
| MW7 | 15 | 97.75 | - | 7.95 | - | - | - | - | **89.80** |

All Values Reported in Feet

btoc - Below Top of Casing

NM - not measured, monitoring well not located

Elevations determined relative to top of casing of MW3, which was arbitrarily set at 100'

## Historical Liquid Level Data

| Well I.D. | Sample Date | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/00 | 8/22/00 | 12/15/00 | 4/17/01 | 11/2/01 | 4/4/02 | 5/2/03 | 3/29/04 | 5/17/06 | 5/5/08 | 7/8/10 | 5/23/12 |
| MW1 | 95.44 | 94.83 | 95.48 | 96.70 | 94.43 | 95.85 | 95.47 | 95.19 | 96.00 | NM | 94.58 | NM |
| MW2 | 95.57 | 94.55 | 95.12 | 97.64 | 93.81 | 96.48 | 95.70 | 95.06 | 96.25 | 96.19 | NM | 95.17 |
| MW3 | 93.53 | 92.86 | | 94.92 | 92.45 | 94.18 | 93.60 | 93.17 | 93.94 | 93.82 | 92.48 | 93.28 |
| MW4 | 92.09 | 91.43 | 92.04 | 93.62 | NM | NM | 92.24 | NM | NM | NM | NM | NM |
| MW5 | NM | 90.33 | - | 92.04 | 90.02 | 91.40 | 91.04 | 90.84 | NM | 91.37 | 90.21 | 90.57 |
| MW6 | | | 93.84 | 94.41 | 92.67 | 94.03 | 93.63 | NM | 94.11 | 93.96 | 93.03 | 93.44 |
| MW7 | | | 90.36 | 91.70 | 89.37 | 91.14 | NM | NM | 91.29 | 91.08 | 88.82 | 90.51 |

All Values Reported in Feet
NM= Not Measured

| Well I.D. | Sample Date | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7/24/14 | 8/23/16 | 8/22/18 | | | | | | | | | |
| MW1 | 94.89 | 94.41 | NM | | | | | | | | | |
| MW2 | 94.84 | NM | 97.39 | | | | | | | | | |
| MW3 | 93.06 | 92.38 | 92.53 | | | | | | | | | |
| MW4 | NM | NM | NM | | | | | | | | | |
| MW5 | 90.33 | 89.83 | NM | | | | | | | | | |
| MW6 | 93.31 | NM | NM | | | | | | | | | |
| MW7 | 90.34 | NM | 89.80 | | | | | | | | | |

All Values Reported in Feet
NM= Not Measured

# Appendix C

# Groundwater Quality Summary

**Groundwater Quality Summary**

| PARAMETER | MW-1 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/2000 | 8/22/2000 | 12/15/2000 | 4/17/2001 | 11/2/2001 | 4/4/2002 | 5/2/2003 | 7/24/2014 | 8/23/2016 | |
| MTBE | <10 | <10 | <10 | <10 | <5.0 | | | ND(2.0) | | 40 |
| Benzene | <1 | <1 | <1 | <1 | <1.0 | Removed | Removed | ND(1.0) | Removed | 5 |
| Toluene | <1 | **2.1** | <1 | <1 | <1.0 | From | From | ND(1.0) | from | 1,000 |
| Ethylbenzene | <1 | <1 | <1 | <1 | <1.0 | Sampling | Sampling | ND(1.0) | Sampling | 700 |
| Xylenes | <1 | **4.2** | <1 | <1 | <1.0 | Schedule | Schedule | ND(2.0) | | 10,000 |
| 1,3,5, trimethyl benzene | <1 | <1 | <1 | <1 | <1.0 | | | ND(1.0) | | 4 |
| 1,2,4, trimethyl benzene | <1 | **2.1** | <1 | <1 | <1.0 | | | ND(1.0) | | 5 |
| Naphthalene | <1 | <1 | <1 | <1 | <1.0 | | | ND(2.0) | | 20 |
| **Total VOCs** | ND | **8.4** | ND | ND | ND | | | ND | | - |

| PARAMETER | MW-2 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/2000 | 8/22/2000 | 12/15/2000 | 4/17/2001 | 11/2/2001 | 4/4/2002 | 5/2/2003 | 7/24/2014 | 8/23/2016 | |
| MTBE | <10 | <10 | **15.6** | <2 | <5.0 | <2.0 | <2.0 | ND(2.0) | | 40 |
| Benzene | <1 | <1 | **6.0** | <1 | **3.1** | <1.0 | <1.0 | ND(1.0) | Removed | 5 |
| Toluene | **1.4** | <1 | **2.4** | <1 | <1.0 | <1.0 | <1.0 | ND(1.0) | from | 1,000 |
| Ethylbenzene | **1.3** | <1 | **2.6** | <1 | <1.0 | <1.0 | <1.0 | ND(1.0) | Sampling | 700 |
| Xylenes | **1.9** | <1 | **2.7** | <2 | **1.6** | <2.0 | <2.0 | ND(2.0) | | 10,000 |
| Total BTEX | **4.6** | ND | **13.7** | ND | **4.7** | ND | ND | ND | | |
| 1,3,5, trimethyl benzene | **40.5** | <1 | **8.7** | **1.1** | <1.0 | <1.0 | <1.0 | ND(1.0) | | 4 |
| 1,2,4, trimethyl benzene | **84.1** | <1 | **11.2** | **1.7** | **1.5** | <1.0 | <1.0 | ND(1.0) | | 5 |
| Naphthalene | **2.8** | <1 | **2.5** | <2 | **1.4** | <2.0 | <1.0 | ND(2.0) | | 20 |
| **Total VOCs** | **136.6** | ND | **51.7** | **2.8** | **7.6** | ND | ND | ND | | - |

| PARAMETER | MW-2 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8/22/2018 | | | | | | | | | |
| MTBE | | | | | | | | | | 40 |
| Benzene | Well Not | | | | | | | | | 5 |
| Toluene | Located | | | | | | | | | 1,000 |
| Ethylbenzene | | | | | | | | | | 700 |
| Xylenes | | | | | | | | | | 10,000 |
| Total BTEX | | | | | | | | | | |
| 1,3,5, trimethyl benzene | | | | | | | | | | 4 |
| 1,2,4, trimethyl benzene | | | | | | | | | | 5 |
| Naphthalene | | | | | | | | | | 20 |
| **Total VOCs** | | | | | | | | | | - |

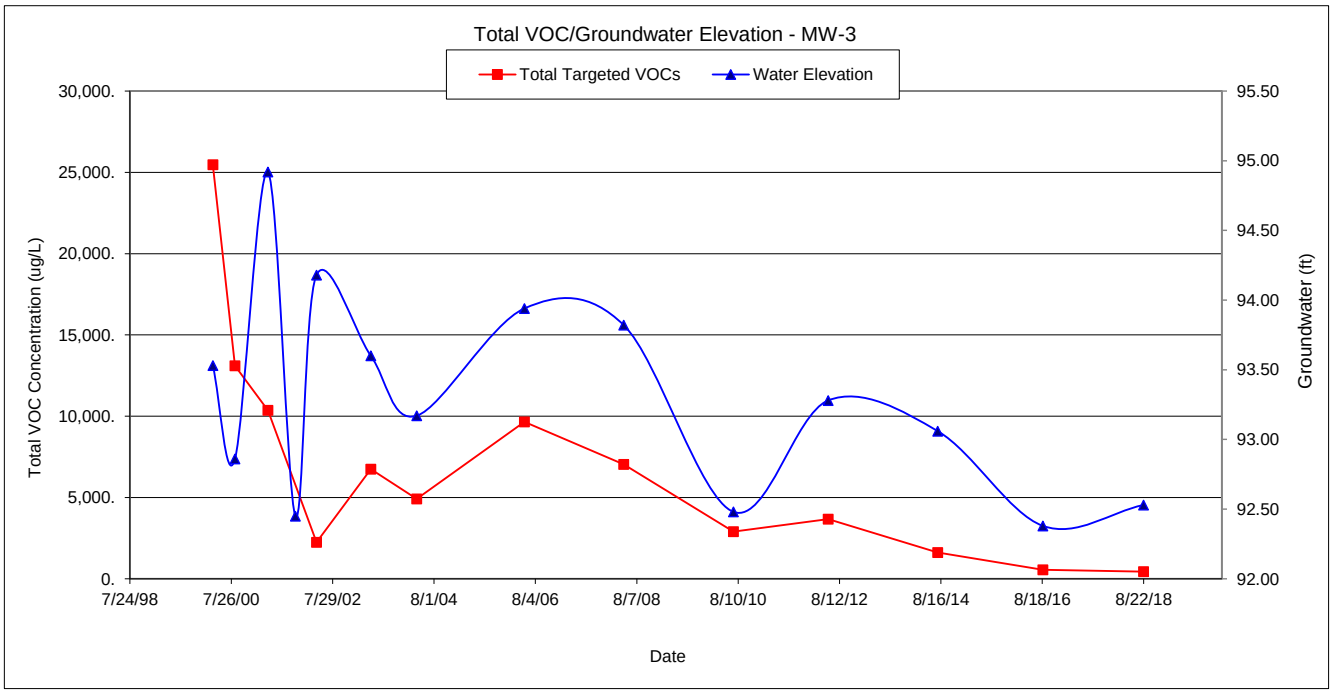
NOTES:
All Values Reported in ug/L
VGES - Vermont Groundwater Enforcement Standard (February 14, 2005 and updated December 16, 2016)
ND - None detected above sample-specific compound detection limit
**Bold** font indicates a detected concentration.
Shaded values meet or exceed VGES

## Groundwater Quality Summary

| PARAMETER | MW-3 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/00 | 8/22/00 | 12/15/00 | 4/17/01 | 11/2/01 | 4/4/02 | 5/2/03 | 3/29/04 | 5/17/06 | |
| MTBE | <1000 | <500 | | <200 | | <20.0 | <40.0 | ND(100.) | ND(100.) | 40 |
| Benzene | <100 | **108.** | Well | <100 | no | <10.0 | **29.2** | ND(50.) | ND(50.) | 5 |
| Toluene | **6,410.** | **613.** | Inaccessible | **761.** | sample | **56.4** | **267.** | ND(50.) | **253.** | 1,000 |
| Ethylbenzene | **1,640.** | **1,210.** | | **812.** | heavy | **164.** | **574.** | **510.** | **769.** | 700 |
| Xylenes | **11,200.** | **6,870.** | | **5,030.** | sheen | **1,000.** | **2,880.** | **1,620.** | **2,740.** | 10,000 |
| Total BTEX | **19,250.** | **8,801.** | | **6,603.** | | **1,220.** | **3,750.** | **2,130.** | **3,762.** | |
| 1,3,5, trimethyl benzene | **1,590.** | **1,040.** | | **937.** | | **241.** | **735.** | **687.** | **1,610.** | 4 |
| 1,2,4, trimethyl benzene | **4,190.** | **2,920.** | | **2,530.** | | **704.** | **1,990.** | **1,920.** | **3,990.** | 5 |
| Naphthalene | **441.** | **349.** | | **295.** | | **84.3** | **267.** | **184.** | **293.** | 20 |
| **Total VOCs** | **25,471.** | **13,110.** | | **10,365.** | | **2,250.** | **6,742.** | **4,921.** | **9,655.** | - |

| PARAMETER | MW-3 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5/5/08 | 7/8/10 | 5/23/12 | 7/24/14 | 8/23/16 | 8/22/18 | | | | |
| MTBE | ND(100.) | ND(40.0) | ND(40.0) | **27.1** | ND(10.0) | ND<20.0 | | | | 40 |
| Benzene | ND(50.) | ND(20.0) | ND(20.0) | ND(5.0) | ND(2.5) | ND<5.0 | | | | 5 |
| Toluene | **110.** | ND(20.0) | ND(20.0) | ND(10.0) | ND(5.0) | ND<10.0 | | | | 1,000 |
| Ethylbenzene | **621.** | **130.** | **286** | **100.** | **36.8** | **40.8** | | | | 700 |
| Xylenes | **3,050.** | **558.** | **1,230** | **371.** | **78.1** | **36.0** | | | | 10,000 |
| Total BTEX | **3,781.** | **688.** | **1,516.** | **498.** | **114.9** | **76.8** | | | | |
| 1,3,5, trimethyl benzene | **780.** | **567.** | **620** | **346.** | **159.** | **106.** | | | | 350 |
| 1,2,4, trimethyl benzene | **2,250.** | **1,580.** | **1,350** | **732.** | **276.** | **241.** | | | | |
| Naphthalene | **229.** | **70.4** | **180** | **39.5** | **10.8** | **16.6** | | | | 20 |
| **Total VOCs** | **7,040.** | **2,905.** | **3,666** | **1,616** | **560.7** | **440.4** | | | | - |

NOTES:
All Values Reported in ug/L
VGES - Vermont Groundwater Enforcement Standard (February 14, 2005 and updated December 16, 2016)
ND - None detected above sample-specific compound detection limit
**Bold** font indicates a detected concentration.
Shaded values meet or exceed VGES



## Groundwater Quality Summary

| PARAMETER | MW-4 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/00 | 8/22/00 | 12/15/00 | 4/17/01 | 11/2/01 | 4/4/02 | 5/2/03 | 3/29/04 | 5/17/06 | |
| MTBE | **10.1** | <10 | <10 | **13.1** | | **7.7** | **6.4** | | | 40 |
| Benzene | <1 | <1 | <1 | **1.2** | well | <1.0 | **2.5** | Not | Not | 5 |
| Toluene | **1.0** | <1 | <1 | **3.9** | submerged | <1.0 | **3.2** | Sampled | Sampled | 1,000 |
| Ethylbenzene | **2.3** | <1 | <1 | **12.4** | beneath | <1.0 | **39.4** | Well | Well | 700 |
| Xylenes | **2.0** | <1 | **1.5** | **19.9** | water | <2.0 | **89.5** | Clogged | Clogged | 10,000 |
| Total BTEX | **5.3** | ND | **1.5** | **37.4** | | ND | **134.6** | | | |
| 1,3,5, trimethyl benzene | TBQ(1) | <1 | <1 | <1 | | <1.0 | **10.3** | | | 4 |
| 1,2,4, trimethyl benzene | **5.3** | <1 | **1.6** | **16.2** | | **1.2** | **65.1** | | | 5 |
| Naphthalene | **1.6** | <1 | **2.4** | <2 | | <2.0 | **21.5** | | | 20 |
| **Total 8021B VOCs** | **22.3** | ND | **5.5** | **66.7** | | **8.9** | **237.9** | | | - |

| PARAMETER | MW-4 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 7/24/14 | 8/23/2016 | | | | | | | | |
| MTBE | | | | | | | | | | 40 |
| Benzene | Well not | Removed | | | | | | | | 5 |
| Toluene | located | from | | | | | | | | 1,000 |
| Ethylbenzene | | Sampling | | | | | | | | 700 |
| Xylenes | | | | | | | | | | 10,000 |
| Total BTEX | | | | | | | | | | |
| 1,3,5, trimethyl benzene | | | | | | | | | | 4 |
| 1,2,4, trimethyl benzene | | | | | | | | | | 5 |
| Naphthalene | | | | | | | | | | 20 |
| **Total 8021B VOCs** | | | | | | | | | | - |

| PARAMETER | MW-5 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/00 | 8/22/00 | 12/15/00 | 4/17/01 | 11/2/01 | 4/4/02 | 5/2/03 | 3/29/04 | 5/17/06 | |
| MTBE | | <10 | | **19.9** | <5.0 | **8.6** | **5.9** | **11.2** | Well | 40 |
| Benzene | well | <1 | well | **14.0** | <1.0 | <1.0 | **1.8** | ND(1.0) | under a | 5 |
| Toluene | submerged | <1 | submerged | **168.** | <1.0 | <1.0 | <1.0 | ND(1.0) | puddle | 1,000 |
| Ethylbenzene | beneath | <1 | beneath | **9.9** | <1.0 | <1.0 | <1.0 | ND(1.0) | | 700 |
| Xylenes | water | <1 | water | **233.** | <1.0 | <2.0 | <2.0 | ND(2.0) | | 10,000 |
| Total BTEX | | ND | | **425.** | ND | ND | **1.8** | ND | | |
| 1,3,5, trimethyl benzene | | <1 | | **81.8** | <1.0 | <1.0 | <1.0 | ND(1.0) | | 350 |
| 1,2,4, trimethyl benzene | | <1 | | **120.** | <1.0 | <1.0 | <1.0 | ND(1.0) | | |
| Naphthalene | | <1 | | **5.2** | <1.0 | <2.0 | <1.0 | ND(1.0) | | 20 |
| **Total VOCs** | | ND | | **652.** | ND | **8.6** | **7.7** | **11.2** | | - |

| PARAMETER | MW-5 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5/5/08 | 7/8/10 | 5/23/12 | 7/24/14 | 8/23/2016 | 8/22/18 | | | | |
| MTBE | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | | | | | | 40 |
| Benzene | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | Removed | Well Not | | | | 5 |
| Toluene | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | from | Located | | | | 1,000 |
| Ethylbenzene | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | Sampling | | | | | 700 |
| Xylenes | ND(2.0) | ND(2.0) | ND(2.0) | ND(2.0) | | | | | | 10,000 |
| Total BTEX | ND | ND | ND | ND | | | | | | |
| 1,3,5, trimethyl benzene | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | | | | | | 350 |
| 1,2,4, trimethyl benzene | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) | | | | | | |
| Naphthalene | ND(1.0) | ND(2.0) | ND(2.0) | ND(2.0) | | | | | | 20 |
| **Total VOCs** | ND | ND | ND | ND | | | | | | - |

NOTES:
All Values Reported in ug/L
VGES - Vermont Groundwater Enforcement Standard (February 14, 2005 and updated December 16, 2016)
ND - None detected above sample-specific compound detection limit
**Bold** font indicates a detected concentration.
Shaded values meet or exceed VGES

**Groundwater Quality Summary**

| PARAMETER | MW-6 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/2000 | 8/22/2000 | 12/15/2000 | 4/17/2001 | 11/2/2001 | 4/4/2002 | 5/2/2003 | 7/24/2014 | 8/23/2016 | |
| MTBE | | | <10 | <2 | <5.0 | | | ND(2.0) | | 40 |
| Benzene | | | <1 | <1 | <1.0 | Removed | Removed | ND(1.0) | Removed | 5 |
| Toluene | well | well | <1 | <1 | <1.0 | From | From | ND(1.0) | from | 1,000 |
| Ethylbenzene | did | did | <1 | <1 | <1.0 | Sampling | Sampling | ND(1.0) | Sampling | 700 |
| Xylenes | not | not | <1 | <2 | <1.0 | Schedule | Schedule | ND(2.0) | | 10,000 |
| 1,3,5, trimethyl benzene | exist | exist | <1 | <1 | <1.0 | | | ND(1.0) | | 4 |
| 1,2,4, trimethyl benzene | | | <1 | <1 | <1.0 | | | ND(1.0) | | 5 |
| Naphthalene | | | <1 | <2 | <1.0 | | | ND(2.0) | | 20 |
| **Total 8021B VOCs** | | | ND | ND | ND | | | ND | | - |

| PARAMETER | MW-7 | | | | | | | | | VGES |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3/15/2000 | 8/22/2000 | 12/15/2000 | 4/17/2001 | 11/2/2001 | 4/4/2002 | 5/2/2003 | 7/24/2014 | 8/23/2016 | |
| MTBE | | | <10 | <2 | <5.0 | | | ND(2.0) | | 40 |
| Benzene | | | <1 | <1 | <1.0 | Removed | Removed | ND(1.0) | Removed | 5 |
| Toluene | well | well | <1 | <1 | <1.0 | From | From | ND(1.0) | from | 1,000 |
| Ethylbenzene | did | did | <1 | <1 | <1.0 | Sampling | Sampling | ND(1.0) | Sampling | 700 |
| Xylenes | not | not | <1 | <2 | <1.0 | Schedule | Schedule | ND(2.0) | | 10,000 |
| 1,3,5, trimethyl benzene | exist | exist | <1 | <1 | <1.0 | | | ND(1.0) | | 4 |
| 1,2,4, trimethyl benzene | | | <1 | <1 | <1.0 | | | ND(1.0) | | 5 |
| Naphthalene | | | <1 | <2 | <1.0 | | | ND(2.0) | | 20 |
| **Total 8021B VOCs** | | | ND | ND | ND | | | ND | | - |

NOTES:
All Values Reported in ug/L
VGES - Vermont Groundwater Enforcement Standard (February 14, 2005 and updated December 16, 2016)
ND - None detected above sample-specific compound detection limit
**Bold** font indicates a detected concentration.
Shaded values meet or exceed VGES

## QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) SAMPLES

| *Sample Date:* / *Analytical Method:* / PARAMETER | **Trip Blank** 8/22/2018 8021B | **MW-3** 8/22/2018 8021B | **Duplicate** 8/22/2018 8021B | **RPD *** % |
|---|---|---|---|---|
| MTBE | ND(2.0) | ND<20.0 | ND<20.0 | **-** |
| Benzene | ND(1.0) | ND<5.0 | ND<5.0 | **-** |
| Toluene | ND(1.0) | ND<5.0 | ND<5.0 | **-** |
| Ethylbenzene | ND(1.0) | **40.8** | **44.3** | **8.2** |
| Xylenes | ND(2.0) | **36.0** | **44.2** | **20.4** |
| 1,3,5-Trimethylbenzene | ND(1.0) | **106.** | **117.** | **9.9** |
| 1,2,4-Trimethylbenzene | ND(1.0) | **241.** | **271.** | **11.7** |
| Naphthalene | ND(2.0) | **16.6** | **17.4** | **4.7** |
| Total Targeted VOCs | ND | **440.4** | **493.9** | **11.5** |

NOTES:
All Values Reported in ug/L
VGES - Vermont Groundwater Enforcement Standard (February 14, 2005 and updated December 16, 2016)
ND - None detected above sample-specific compound detection limit
**Bold** font indicates a detected concentration.
Shaded values meet or exceed VGES

# Appendix D

# Analytical Laboratory Report

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

KAS, Inc 100306
PO Box 787
Williston, VT 05489

Atten: Sam Driver

PROJECT: 401050156 Teago Store
WORK ORDER: **1808-21435**
DATE RECEIVED: August 23, 2018
DATE REPORTED: September 06, 2018
SAMPLER: Jolene Tuner

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

CLIENT: KAS, Inc
PROJECT: 401050156 Teago Store
REPORT DATE: 9/6/2018

WORK ORDER: **1808-21435**
DATE RECEIVED: 08/23/2018

TEST METHOD: EPA 8260C

001 Site: MW-3 Date Sampled: 8/22/18 11:49 Analysis Date: 9/5/18 W TEL

| Parameter | Result | Unit | Nelac | Qual | Parameter | Result | Unit | Nelac | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl ether (MTBE) | < 20.0 | ug/L | A | | Benzene | < 5.0 | ug/L | A | |
| Toluene | < 10.0 | ug/L | A | | Ethylbenzene | 40.8 | ug/L | A | |
| Xylenes, Total | 36.0 | ug/L | A | | 1,3,5-Trimethylbenzene | 106 | ug/L | A | |
| 1,2,4-Trimethylbenzene | 241 | ug/L | A | | Naphthalene | 16.6 | ug/L | A | |
| Surr. 1 (Dibromofluoromethane) | 100 | % | A | | Surr. 2 (Toluene d8) | 100 | % | A | |
| Surr. 3 (4-Bromofluorobenzene) | 99 | % | A | | Unidentified Peaks | >10 | | U | |

TEST METHOD: EPA 8260C

002 Site: Duplicate Date Sampled: 8/22/18 11:49 Analysis Date: 9/5/18 W TEL

| Parameter | Result | Unit | Nelac | Qual | Parameter | Result | Unit | Nelac | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl ether (MTBE) | < 20.0 | ug/L | A | | Benzene | < 5.0 | ug/L | A | |
| Toluene | < 10.0 | ug/L | A | | Ethylbenzene | 44.3 | ug/L | A | |
| Xylenes, Total | 44.2 | ug/L | A | | 1,3,5-Trimethylbenzene | 117 | ug/L | A | |
| 1,2,4-Trimethylbenzene | 271 | ug/L | A | | Naphthalene | 17.4 | ug/L | A | |
| Surr. 1 (Dibromofluoromethane) | 100 | % | A | | Surr. 2 (Toluene d8) | 99 | % | A | |
| Surr. 3 (4-Bromofluorobenzene) | 100 | % | A | | Unidentified Peaks | >10 | | U | |

TEST METHOD: EPA 8260C

003 Site: Trip Blank Date Sampled: 8/22/18 07:39 Analysis Date: 9/5/18 W TEL

| Parameter | Result | Unit | Nelac | Qual | Parameter | Result | Unit | Nelac | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Methyl-t-butyl ether (MTBE) | < 2.0 | ug/L | A | | Benzene | < 0.5 | ug/L | A | |
| Toluene | < 1.0 | ug/L | A | | Ethylbenzene | < 1.0 | ug/L | A | |
| Xylenes, Total | < 2.0 | ug/L | A | | 1,3,5-Trimethylbenzene | < 1.0 | ug/L | A | |
| 1,2,4-Trimethylbenzene | < 1.0 | ug/L | A | | Naphthalene | < 2.0 | ug/L | A | |
| Surr. 1 (Dibromofluoromethane) | 100 | % | A | | Surr. 2 (Toluene d8) | 100 | % | A | |
| Surr. 3 (4-Bromofluorobenzene) | 100 | % | A | | Unidentified Peaks | 0 | | U | |

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

# CHAIN-OF-CUSTODY-RECORD

79775

Special Reporting Instructions/PO#: 401050156

| | | |
|---|---|---|
| Project Name: Teago Store S. Pomfret, VT | Client/Contact Name: Sam Driver KAS | Sampler Name: Jolene Turner KAS |
| State of Origin: VT X NY __ NH __ Other __ | Phone #: | Phone #: |
| Endyne WO # | Mailing Address: KAS | Billing Address: KAS |

| Sample Location | Matrix | GRAB | COMP | Date/Time Sampled | Sample Containers No. | Sample Containers Type/Size | Sample Preservation | Analysis Required | FieldResults/Remarks | Due Date |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | H2O | X | | 8/22/18 1149 | 2 | 40mL | HCL | 8021B | | |
| Trip Blank | ↓ | ↓ | | 739 | ↓ | ↓ | ↓ | ↓ | | |
| Duplicate | ↓ | ↓ | | 1149 | ↓ | ↓ | ↓ | ↓ | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

1808-21435
1808-21435
KAS, Inc
401050156 Teago Store

| Relinquished by: | Date/Time | Received by: | Date/Time | Received by: | Date/Time |
|---|---|---|---|---|---|
| | 8/22/18 1421 | | 8/23/18 11:43 | Courney | 8/23/18 @ 12:08 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | pH | 6 | TKN | 11 | Total Solids | 16 | Sulfate | 21 | 1664 TPH/FOG | 26 | 8270 PAH Only |
| 2 | Chloride | 7 | Total P | 12 | TSS | 17 | Coliform (Specify) | 22 | 8015 GRO | 27 | 8081 Pest |
| 3 | Ammonia N | 8 | Total Diss. P | 13 | TDS | 18 | COD | 23 | 8015 DRO | 28 | 8082 PCB |
| 4 | Nitrite N | 9 | BOD | 14 | Turbidity | 19 | VT PCF | 24 | 8260B | 29 | PP13 Metals |
| 5 | Nitrate N | 10 | Alkalinity | 15 | Conductivity | 20 | VOC Halocarbons | 25 | 8270 B/N or Acid | 30 | Total RCRA8 |
| 31 | Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn | | | | | | | | | | |
| 32 | TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides) | | | | | 33 | Other | | | | |
| 34 | Corrosivity | 35 | Ignitability | 36 | Reactivity | 37 | Other | | | | |
| 38 | Other | | | | | | | | | | |

LAB USE ONLY
Delivery: Client
Temp: 4.2
Comment:

(White - Laboratory / Yellow - Client)

# Appendix E

# VTDEC Checklist

**Vermont Department of Environmental Conservation**
**Waste Management and Prevention Division**
**Sites Management Section**
**I-Rule LONG TERM MONITORING Report Checklist**

**Site Number:** 99-2670

**Site Name:** Teago General Store

**Site Address:** 2035 Pomfret Road

**Site City/Town:** South Pomfret

**Report Title:** August 2018 Long Term Groundwater Monitoring Report

**Report Date:** October 3, 2018

**Consultant:** KAS, Inc.

**Report Author:** Sam Driver

| Deliverable | YES | N/A | Comments | WMPD Use Only | |
|---|---|---|---|---|---|
| | | | | Adequate | Inadequate |
| **Subchapter 5. Corrective Action** | | N/A | | | |
| **§35-509. Long Term Monitoring** | YES | | | | |
| Updated Executive Summary | YES | | | | |
| Updated CSM | YES | | | | |
| Contaminated media characterization | YES | | | | |
| Updated site maps | YES | | | | |
| Sample locations, methods and SOPs used | YES | | | | |
| Work plan deviations | | N/A | | | |
| Analysis of how data gathered supports CSM | YES | | | | |
| Data presentation (narrative, tabular, and graphical) | YES | | | | |
| NAPL recovery results | | N/A | | | |
| Screening results from stockpiled soil | | N/A | | | |
| Current condition of monitoring network | YES | | | | |
| Changes in site and neighboring properties | | N/A | | | |
| Changes in site which conflict with ICs | | N/A | | | |
| Handling investigation and remediation derived wastes | | N/A | | | |
| Discussion of findings | YES | | | | |
| Signature and certification | YES | | | | |

RECEIVED & RECORDED
On January 10, 2020
At 2:20 P.M.
Book 82 Page 86-9
TOWN CLERK - POMFRET, VT

VERMONT

*State of Vermont*
*Department of Environmental Conservation*
*Waste Management and Prevention Division*
*1 National Life Dr – Davis 1*
*Montpelier, VT 05620-3704*
*(802) 828-1138*
*matt.moran@vermont.gov*

*AGENCY OF NATURAL RESOURCES*

January 3, 2020
E-mail

KATHLEEN DOLAN
POMFRET GENERAL STORE, LLC
PO BOX 163
SOUTH POMFRET, VT 05067
kd@artistreevt.org

RE: Site Management Activities Complete, Teago General Store, SMS #99-2670, South Pomfret

Dear Ms. Dolan:

The Sites Management Section (SMS) reviewed the above referenced site file. This letter is to serve notice to the Town of Pomfret, Vermont, that at the Teago General Store property located at 2035 Pomfret Road soil and groundwater in the subsurface are impacted by petroleum released from former gasoline underground storage tanks (UST). This property is further described in the Pomfret town records as lot #_____ tax parcel #_____. The property is filed in the Vermont Department of Environmental Conservation (VTDEC) Waste Management and Prevention Division Sites Management Section (SMS) records as the Teago General Store, SMS Site #1999-2670. Copies of the site investigation reports are in the site file and are available for review at the VTDEC offices in Montpelier, Vermont or electronically. Information contained within our file includes the following:

- *During the August 1999 removal of two 6,000-gallon gasoline and two 1,250-gallon abandoned underground storage tanks (USTs) contaminated soil and groundwater were observed. Volatile organic compounds (VOC) were measured by a photoionization detector (PID). PID readings of the soils at the USTs ranged up to 320 parts per million (ppm). The soil was observed to be sand and gravel. Groundwater was encountered at a depth of 11'. Approximately 80 yds$^3$ of contaminated soils were stockpiled on site. Additional investigation was required by the SMS.*

- *On March 8, 2000, 6 soil borings were advanced and 5 of these were completed as groundwater monitor wells in order to evaluate potential contamination related to the USTs, dispenser island, and product lines. Fine to medium sands were observed from grade to 15' below the ground.*

- *On March 15, 2000 MW-1 to -4 were sampled for VOCs via EPA Method 8021B. The site water supply well and another supply well at the residence ~200' to the south were sampled for VOCs via EPA 524.2 for drinking water. No contamination was detected in MW-1 or the two water supply wells. In MW-4, 1,2,4-trimethylbenzene (5.3 µg/L) was found above the Vermont Groundwater Enforcement Standards (VGES). In MW-2, 1,2,4-trimethylbenzene (84 µg/L) and 1,3,5-trimethylbenzene (40 µg/L) were found above the VGES. The groundwater in*

(over)

*MW-3 exceeded the VGES for all tested compounds and the total VOC level was 25,471 µg/L. Total petroleum hydrocarbons (TPH) were found in MW-2, -3 and -4, with the highest level in MW-3 (28,100 µg/L). TPH does not have a regulatory standard but is used as a general indicator of petroleum contamination.*

- *On August 22, 2000 monitor wells MW-1 to -5 were sampled for VOCs. Four sediment samples were collected from the Pomfret Brook bank. No contamination was detected in MW-2, -4, and -5, as well as sediment samples #1, #2, and #3. In MW-3, benzene, ethylbenzene, 1,3,5- and 1,2,4-trimethylbenzene and naphthalene were found above the Vermont Groundwater Enforcement Standards (VGES). In MW-1 several petroleum compounds were found below the VGES. Sediment sample #4 contained xylene, trimethyl-benzene and naphthalene below applicable standards. By the December 12, 2000 sampling round, the monitoring well network had been expanded to 7 monitor wells. MW-1, -2, and -5 were located on the north side of Stage Road most proximal to the UST systems, and MW-3, -4, -6, and -7 were located on the south side of Stage Road. The property on the south side of the road is part of the same parcel and is undeveloped.*

- *Long term groundwater monitoring and soil stockpile screening were used to manage the site between 2000 and 2018. The site was sampled 15 times. In 2003 permission was given to dispose of the soil stockpile by thin spreading.*

- *On August 1, 2017 the last remaining 4,000-gallon gas UST was removed. The UST was reported in excellent condition and the observed contamination was from the previous USTs. Groundwater sampling after the UST removal supported the UST assessment findings that the contamination was historic in nature.*

- *Following the August 2018 sampling round, the SMS concluded that remediation and additional groundwater monitoring were not necessary at this property as standards at that time were attained and we requested that the groundwater monitor wells be properly closed prior to site closure.*

- *The site building and water supply well and a neighbor's supply well were identified as sensitive receptors. With respect to the onsite building, no groundwater contaminants have been detected in the three proximal monitor wells since 2004, and vapor intrusion is not believed to be a significant risk. The Pomfret Brook, bordering the property, is the nearest potentially at-risk surface water. With the installation of MW-6 and -7 the down gradient extent of the contaminated groundwater was defined and showed no regulatory impact to the Pomfret Brook. No other at-risk sensitive receptors were identified.*

- *On August 5, 2019 the four remaining site monitor wells (MW-2, MW-3, MW-6 and MW-7) were properly closed. The well covers were removed, the well casings were pulled out, the boreholes were filled with hydrated bentonite pellets, and the surface was finished to grade to the surroundings.*

Based on the above information, the SMS has determined that the site has satisfied the requirements of Subchapter 10 **§ 35-1001** of the Investigation and Remediation of Contaminated Properties rule (IRULE) and the SMS is not requesting any additional work in response to the gasoline contamination observed during the August 1999 removal of four gasoline USTs and the August 2017 removal of the last remaining gasoline UST. The release(s) no longer constitute an unacceptable exposure to human health and the environment. Therefore, the SMS is assigning the site a Sites Management Activities Completed (SMAC) designation. The SMAC designation does not release the owner and/or operators (past, current, or future), from any past

or future environmental liability associated with residual contamination from the identified release(s) or from any contamination discovered after the site receives this designation. It also does not mean that the site is free of contamination or absent of other environmental issues. **The Secretary may return the site to an active status if any of the criteria outlined in Subchapter 10 § 35-1001(f) of the IRULE are met.**

This SMAC letter and attached site map also serve as a **Notice to the Land Records** to document that residual soil and ground water contamination remains on this property from the gasoline release(s) identified in 1999 and 2017. Any residual contamination at the site does not pose an unacceptable risk to human health and the environment providing it remains undisturbed. Prior to conducting any subsurface work, excavation, or groundwater extraction in the vicinity of the contamination depicted on the enclosed site plan, the VTDEC SMS must be notified. The status of this site may only be updated or altered by the VTDEC SMS. If a person fails to follow the use restrictions contained within this notice, the person may be liable for further site investigation, remediation, and penalties pursuant to the Vermont Waste Management Act, 10 V.S.A. Chapter 159.

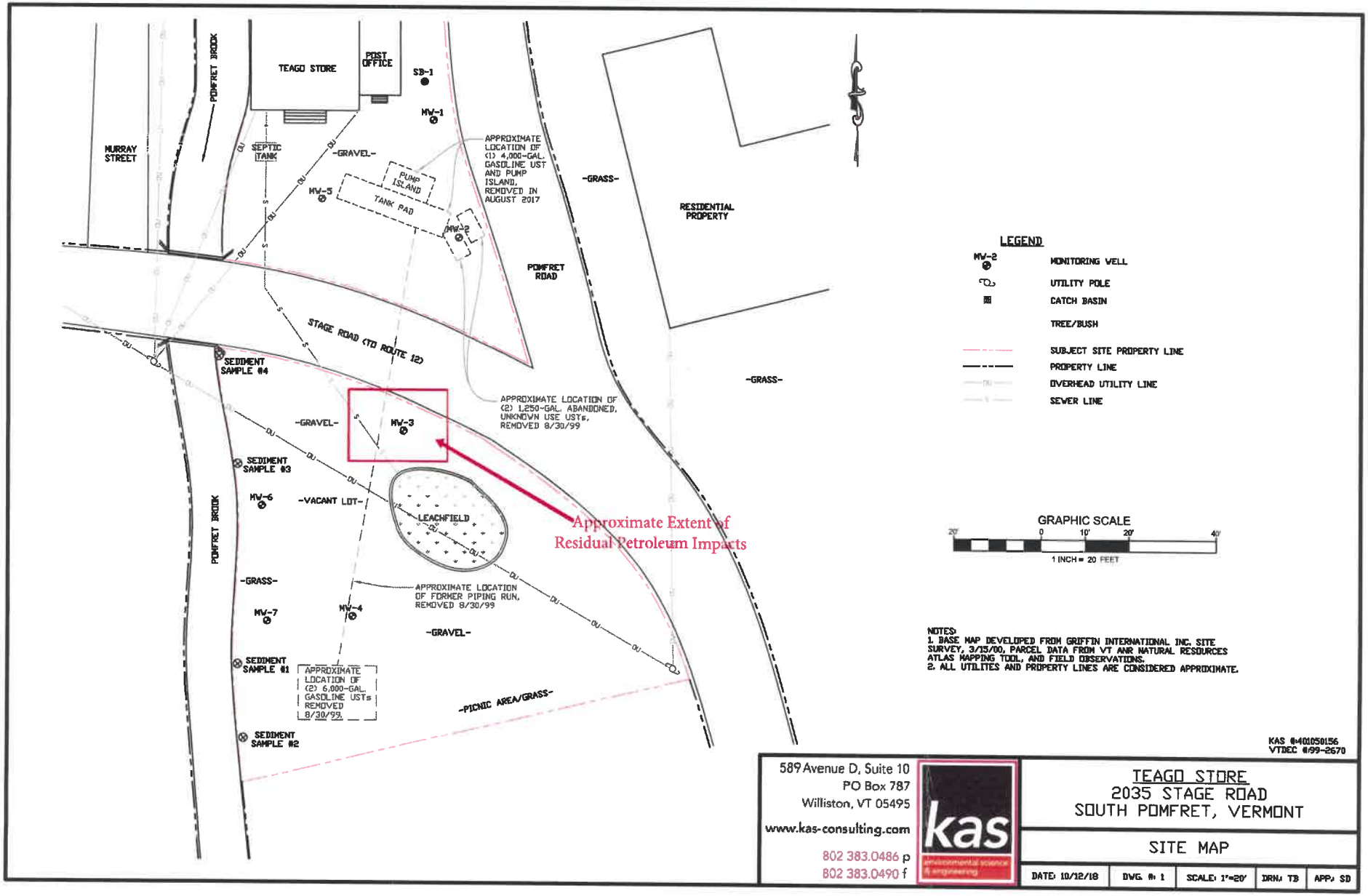
**This SMAC letter and attached site map shall be entered within 7 days into the land record to document that residual soil and groundwater contamination remains on site. A copy of the recorded SMAC letter with the recorder's stamp, Date, Book and Page Number must be provided to the Agency within 10 days of recording; upon which time the SMAC designation will take effect.**

If you have any questions, please feel free to contact me or Gerold Noyes, the Project Manager, at (802) 828-1138.

Sincerely,

Matt Moran, Environmental Program Manager
Sites Management Section

CC: Charles Gunderson, former owner, Stage Road Enterprises, Inc, PO Box 127, S. Pomfret, VT 05067
Sam Driver, KAS, Inc.
Jeremy Roberts, KAS, Inc.
DEC Regional Office
Pomfret Select Board
Pomfret Health Officer




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PO Box 787
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802 383.0486 p
802 383.0490 f

kas environmental science & engineering

# TEAGO STORE
## 2035 STAGE ROAD
## SOUTH POMFRET, VERMONT

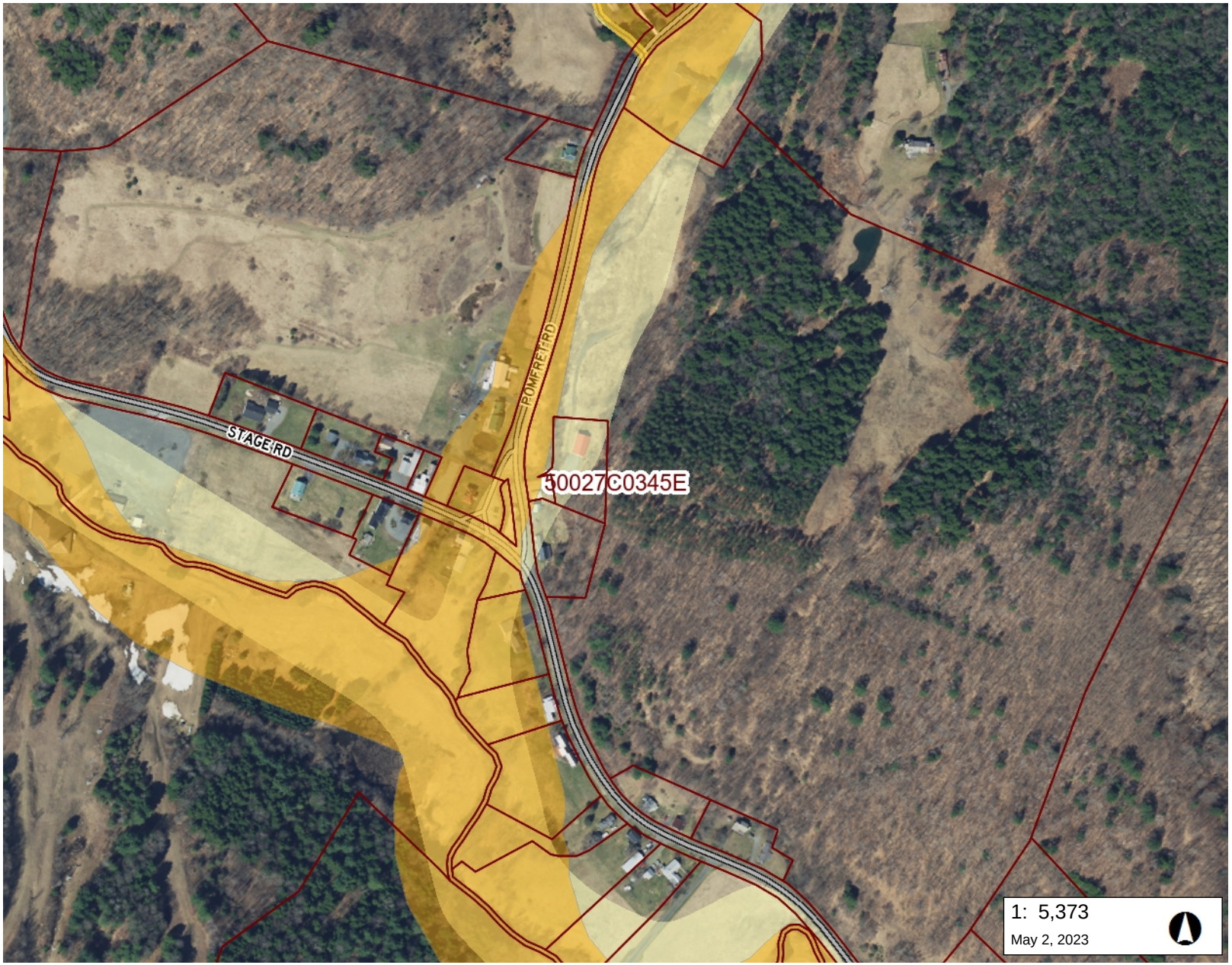
## SITE MAP

| DATE: 10/12/18 | DWG. #: 1 | SCALE: 1"=20' | DRN: TB | APP: SD |
|---|---|---|---|---|

# Floodplains Rivers Map

**Vermont Agency of Natural Resources**

**vermont.gov**







## LEGEND

- DFIRM X-Sections
- DFIRM - Letter of Map Revisio
- DFIRM Panels
- DFIRM Floodways
- Flood Hazard Areas (Only FEM
  - AE (1-percent annual chance floodp
  - A (1-percent annual chance floodpl
  - AO (1-percent annual chance zone feet)
  - 0.2-percent annual chance flood ha
- River Corridors (Aug 27, 2019)
- .5 - 2 sqmi.
- .25-.5 sqmi.
- Parcels (standardized)
- Roads
  - Interstate
  - US Highway; 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Town Boundary

## NOTES

Map created using ANR's Natural Resources Atlas

273.0 0 136.00 273.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 448 Ft. 1cm = 54 Meters

© Vermont Agency of Natural Resources

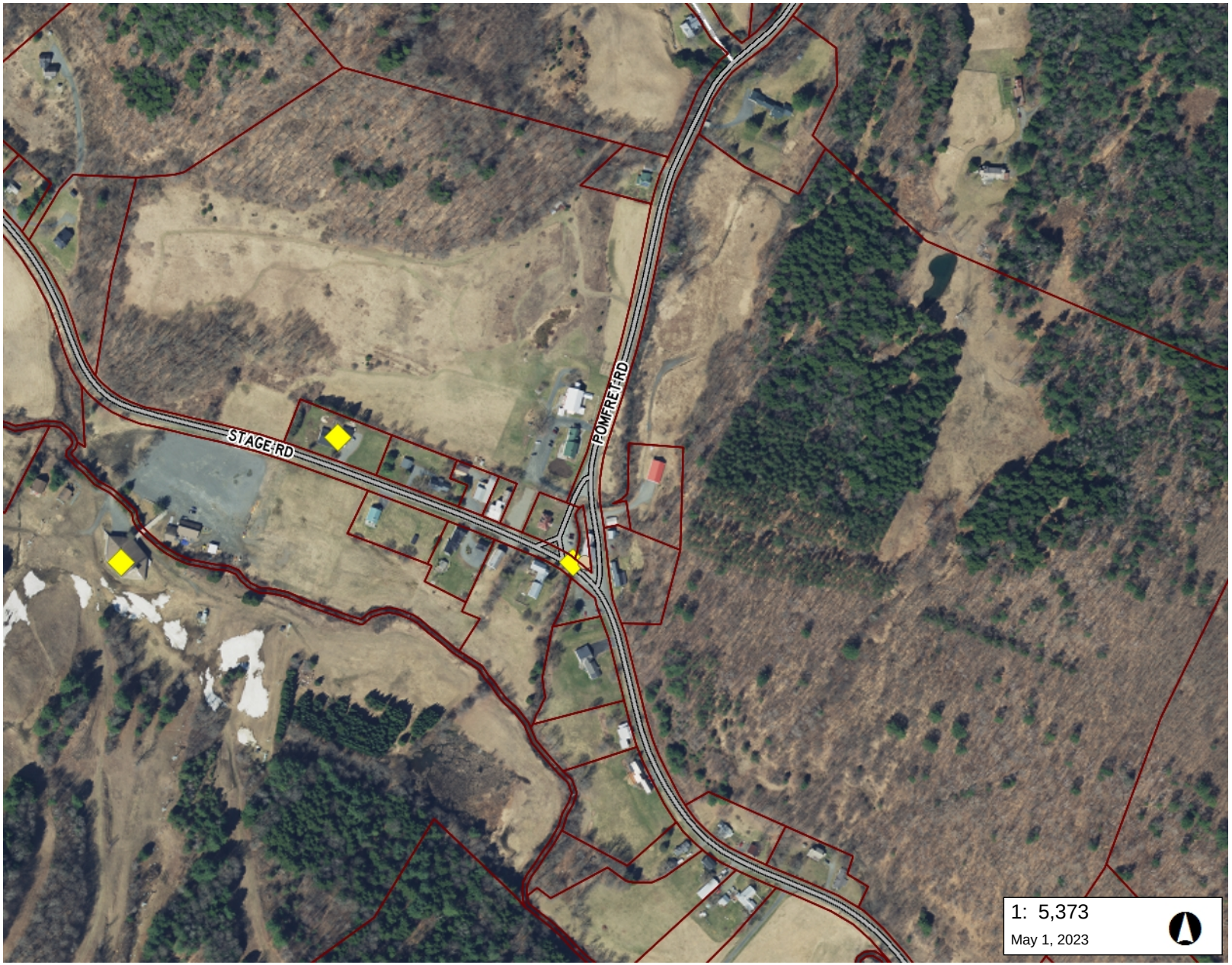
THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

# Hazardous Waste Urban Soils Map

**Vermont Agency of Natural Resources**

**vermont.gov**







## LEGEND

- Landfills
  - OPERATING
  - CLOSED
- Land Use Restrictions
  - Class IV GW Reclass
  - Class VI GW Reclass
  - Deed Restriction
  - Easement
  - Land Record Notice
  - Other
- Hazardous Site
- Hazardous Waste Generators
- Brownfields
- Salvage Yard
- Aboveground Storage Tank
- Underground Storage Tank (w
- Dry Cleaner
- Urban Soil Background Areas
- Parcels (standardized)
- Roads
  - Interstate
  - US Highway; 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail

## NOTES

Map created using ANR's Natural Resources Atlas

273.0 0 136.00 273.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 448 Ft. 1cm = 54 Meters

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VERMONT

# Other Resources Map

**Vermont Agency of Natural Resources**

**vermont.gov**







## LEGEND

- Protected Lands
  - Private Organizations
  - Vermont Municipalities
  - State
  - Federal
- Parcels (standardized)
- Waterbody
- Stream
  - Stream
  - Intermittent Stream
- ACT250 Permits
- Roads
  - Interstate
  - US Highway; 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Town Boundary

1: 5,373

May 2, 2023

273.0 0 136.00 273.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 448 Ft. 1cm = 54 Meters

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## NOTES

Map created using ANR's Natural Resources Atlas

VERMONT

**Alexander Honsinger**
**VTrans Cultural Resources Specialist**
**Agency of Transportation**
**Project Delivery Bureau - Environmental Section**
Barre City Place
219 Main St.
Barre City, VT 05641
802-793-7456 phone
al.honsinger@vermont.gov

To: Lee Goldstein, Environmental Specialist

From: Alexander Honsinger, VTrans Cultural Resources Specialist
Kyle Obenauer, VTrans Senior Architectural Historian

Date: May 25, 2023

Subject: Pomfret STP BP21(20) – Archaeological and Above-ground Historic Resource ID Memo

This resource identification (ID) memo concerns a broad survey area which could be impacted by a proposed project in the southwestern portion of the town of Pomfret (Figure 1). A site visit was conducted on May 11th, 2023, to assess above-ground historic resources and archaeological sensitivity within this preliminary survey area that could potentially be affected by a future transportation project.

Terrain within the survey area is relatively level, to gradually sloping, with soils primarily comprised of well-drained, eolian and glaciofluvial deposits. According to the USDA Web Soil Survey (2023), the soils are further classified as Agawam fine sandy loam (8B, 92.2%), Vershire-Dummerston complex (19D, 7.2%), Rumney fine sandy loam (33, 0.4%), and Teago-Pomfret complex (36E0, 2%) (Figure 2). The course of Pomfret Brook bisects the survey area prior to its confluence with Barnard Brook, which parallels the southern project boundary.

Pomfret was surveyed and subdivided for agricultural lands by 1761, while permanent settlement in the town of commenced by the year 1769 (Aldrich and Holmes 1891: 728-730). The contemporary roadway layout of South Pomfret Village was established by the nineteenth century (Figures 3 and 4). Twentieth century infrastructure alterations within the survey area include, but are not limited to, the Pomfret Bridge built in 1926, and the Stage Road bridge built in 1939. There are no previously recorded archaeological sites within the survey area. The closest site, VT-WN-0322, is located over a km from the project area to the northwest and consists of poured-concrete mill remains. Crown Consulting Archaeology assessed the survey area in July of 2022 and identified three areas of archaeological sensitivity (Knight 2022:5; Figure 5). Following the site visit, VTrans staff confirmed the determinations of Crown Consulting Archaeology staff concerning the floodplain east of Stage Road along Pomfret Brook, the NRHP listed Abbot Memorial Library lawn west of Pomfret Brook and Library Street, and the field south of Stage Road in the western portion of the survey area (Knight 2022:5; Figure 5). In addition, VTrans' staff also identified an additional two archaeologically sensitive landforms comprised of well-drained, level terrain near the Pomfret and Barnard drainages (Figure 5). These archaeologically sensitive areas have **been mapped and are available in the VTRANS Environmental Group Archaeology Resource Collection, ESRI ArcGIS Online web map.**

One NRHP listed property is located within the survey area, the Abbot Memorial Library (15 Library Street), built in 1905 (Figure 6). The state register also contains an additional two listed properties, the Betram House (43 Stage Road) and the Webster House (2020 Pomfret Road). VHB (2022) previously conducted an above-ground historic resource identification in the survey area. VHB staff ultimately assessed a total of twenty-five properties, thirteen of which were deemed eligible contributing resources to a potential South Pomfret Historic District (Figure 7 and Table 1). VTrans concurs with VHB's findings concerning the above-ground historic resources within the survey area. These historic properties have **been mapped and are available in the VTRANS Environmental Group Historic Preservation Resource Collection, ESRI ArcGIS Online web map.**

Upon receiving the project scope and design, potential impacts to archaeological and above-ground historic resources can be further accessed, and avoidance measures can be developed to satisfy requirements under Section 106 and 22 VSA § 14.

Thank you,
Alexander Honsinger
VTrans Cultural Resources Specialist

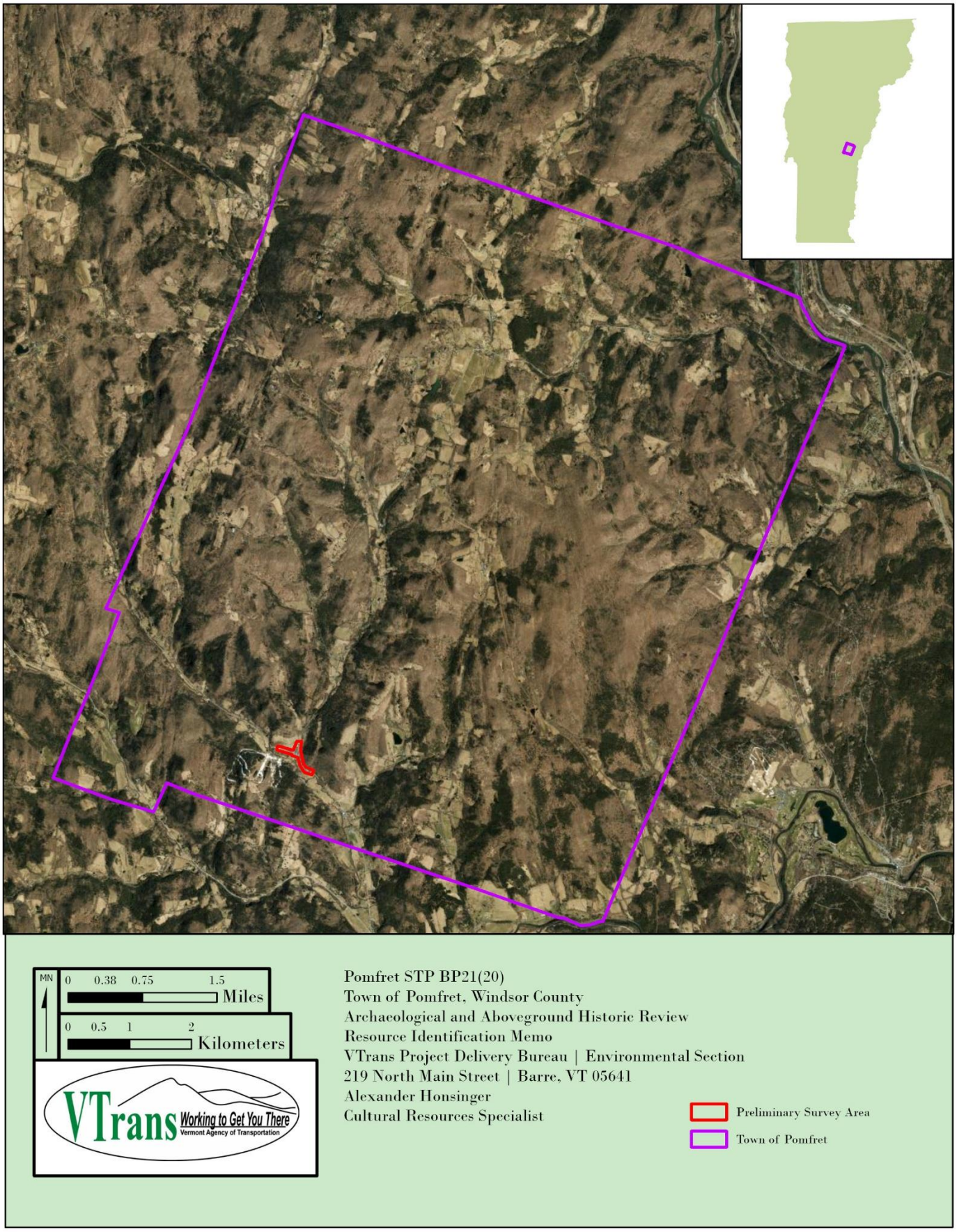



Figure 1. Preliminary survey area within the town of Pomfret.

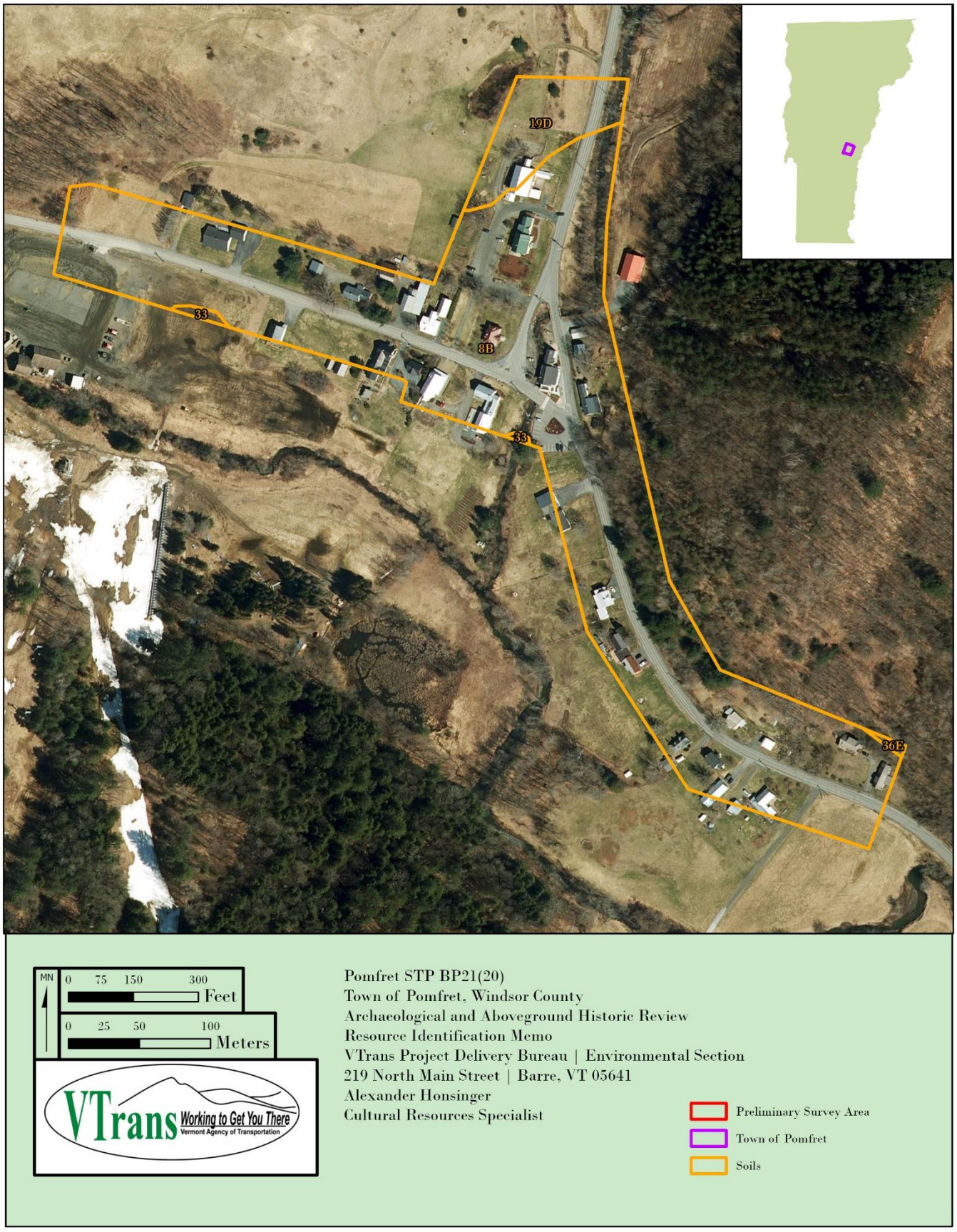



Figure 2. Map depicting soils within the preliminary survey area (USDA 2023).

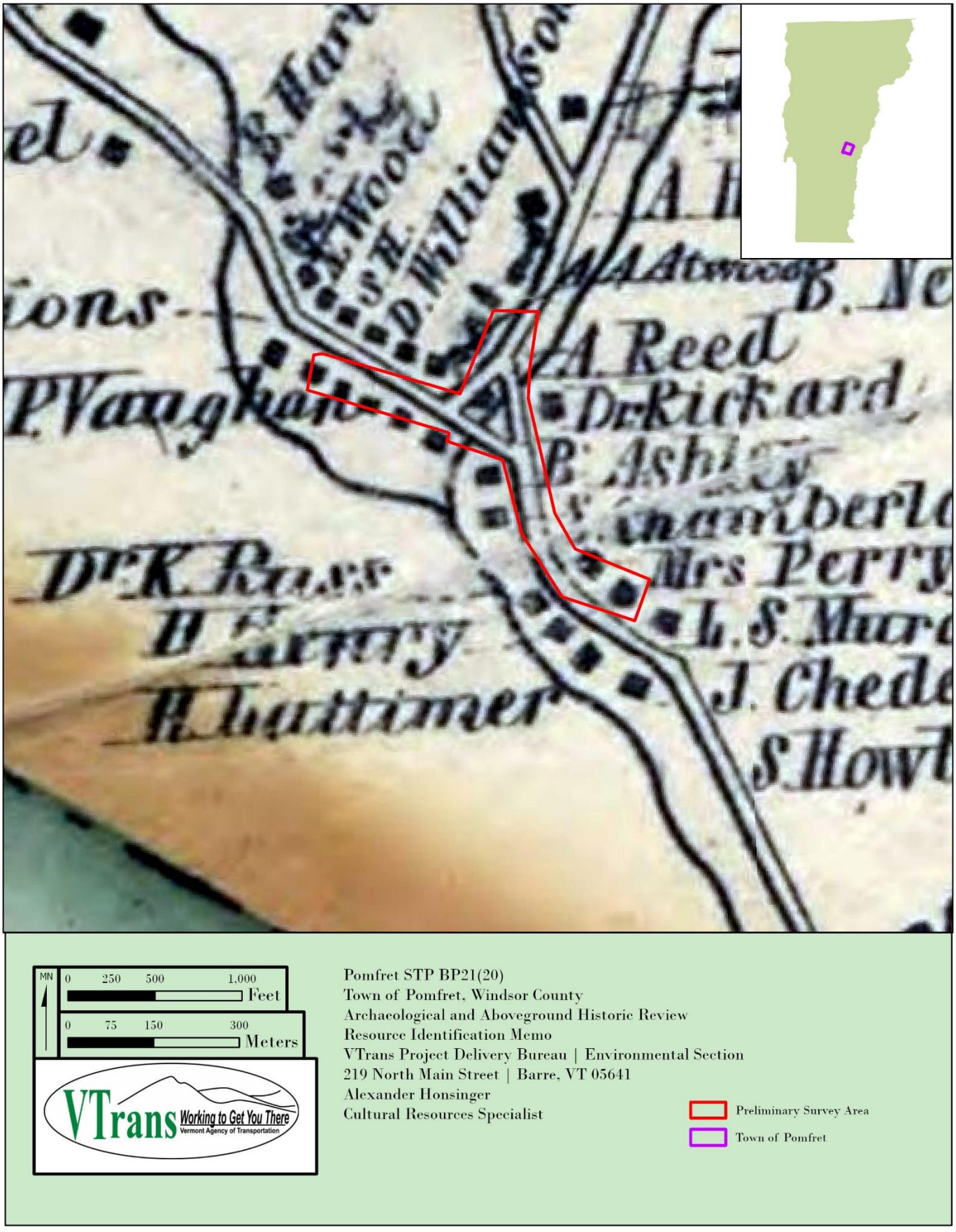



Figure 3. Map depicting approximate preliminary survey area on Doton (1856) Atlas of Windsor County.

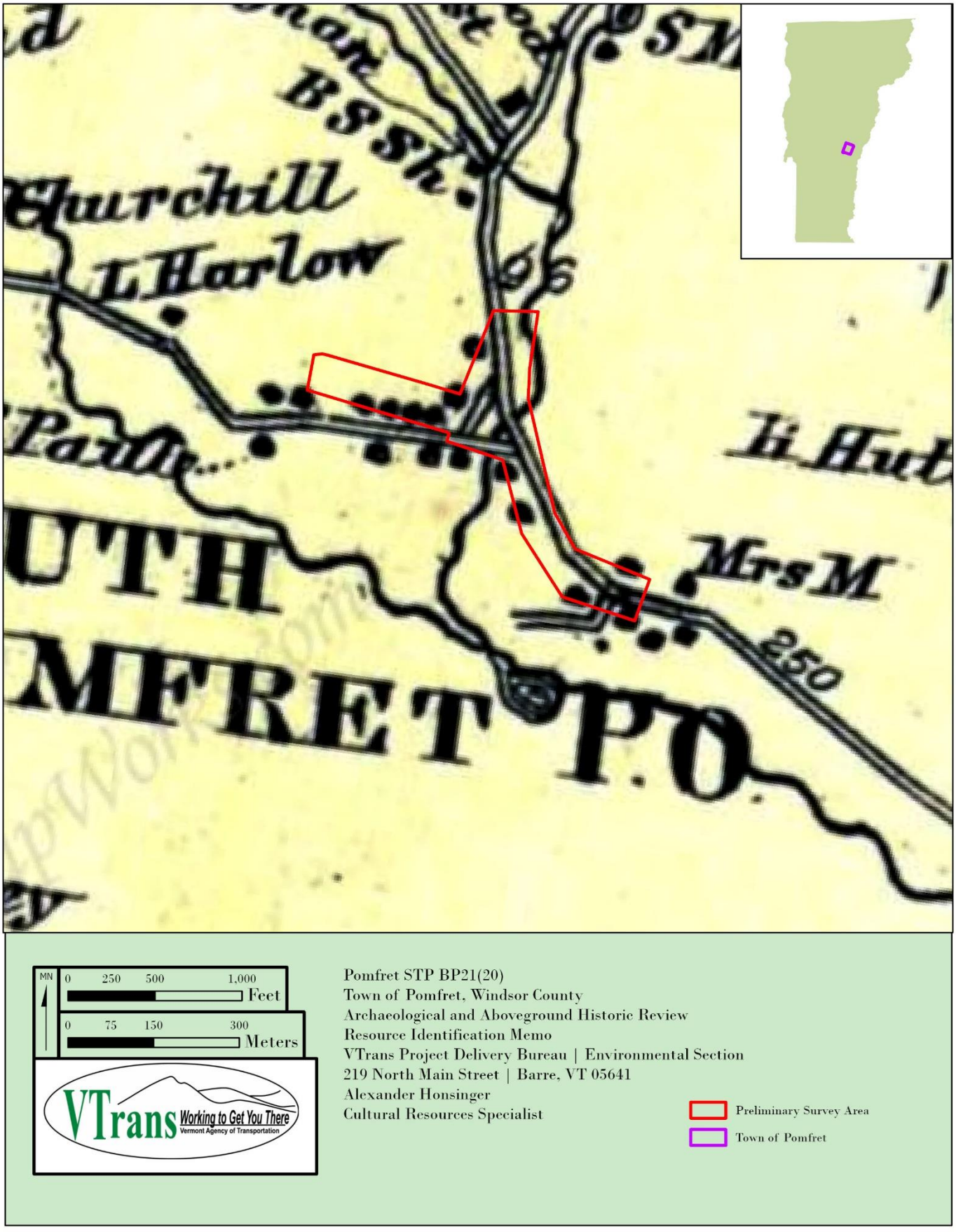



Figure 4. Map depicting approximate preliminary survey area on the Beers Atlas of Windsor County (1869).

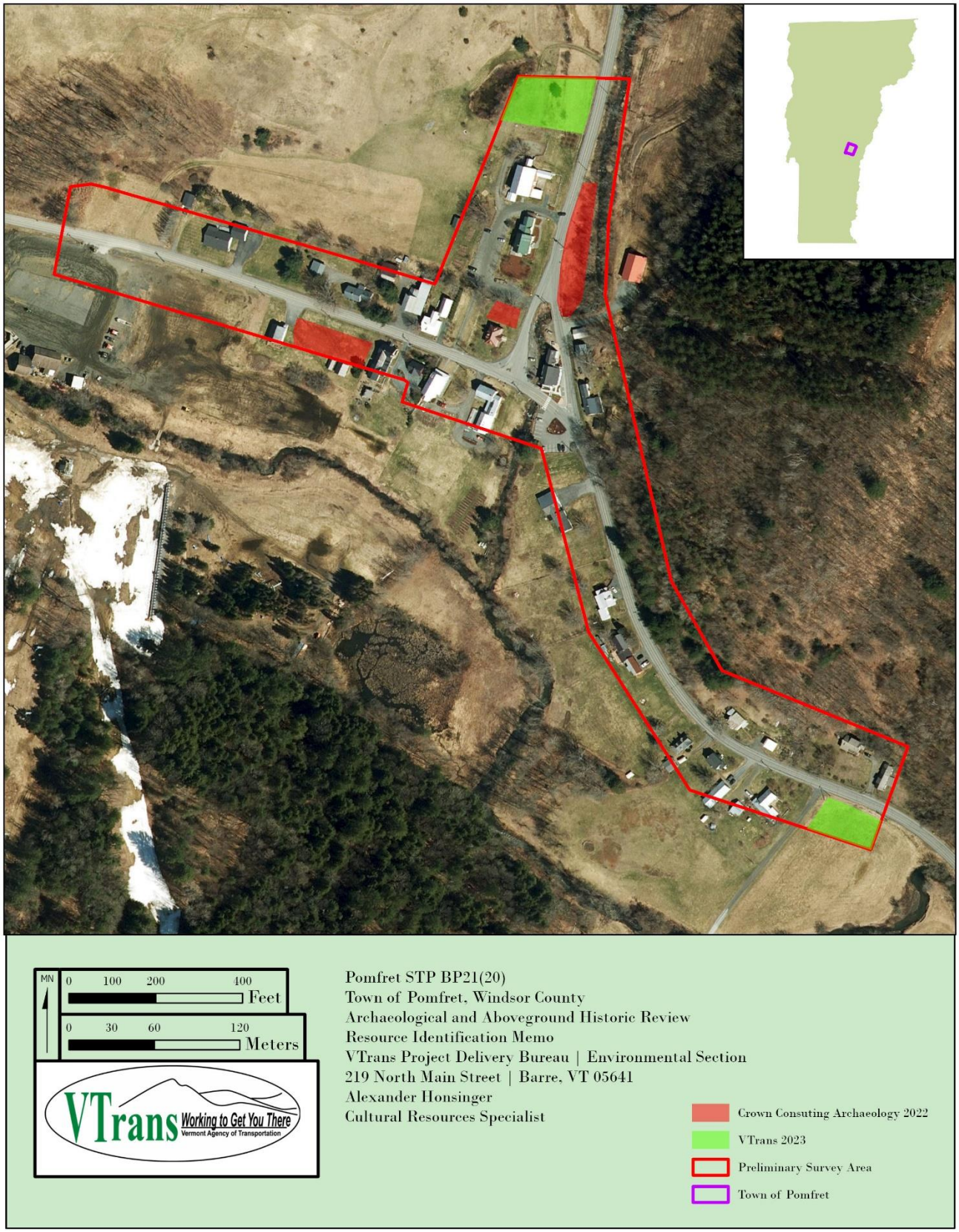



Figure 5. Map depicting archaeological sensitivity within the preliminary survey area adapted from Knight (2022:29) labeled in red and areas identified during VTrans' 2023 site visit labeled in green.



Figure 6. Historic photograph of the NRHP Listed Abbot Memorial Library, 15 Library Street (Unknown Artist 1907).

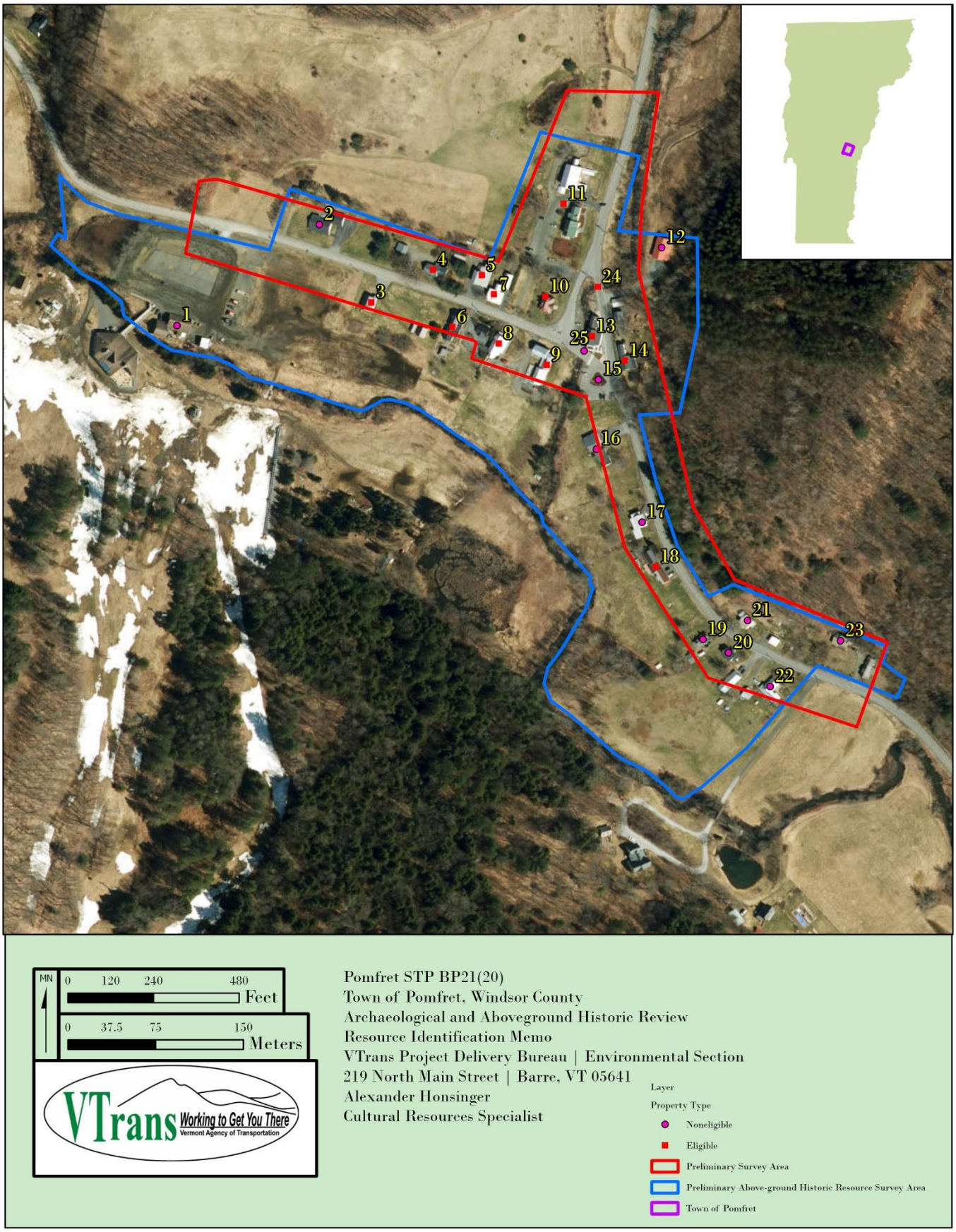



Figure 7. Map depicting developed properties within or adjacent to the preliminary survey area. Adapted from VHB (2022).

| # | Construction Date, Address |
|---|---|
| 1 | c. 1978 - 247 Stage Road |
| 2 | c. 1958 - 172 Stage Road |
| 3 | c. 1915 - 139 Stage Road |
| 4 | c. 1820 - 104 Stage Road |
| 5 | c. 1820/1880 - 93 Stage Road |
| 6 | c. 1840 - 84 Stage Road |
| 7 | c. 1840/1890 - 72 Stage Road |
| 8 | 1904, 1908 - 65 Stage Road (The Grange Theatre) |
| 9 | c. 1860 - 43 Stage Road |
| 10 | 1905 - 15 Library Street (Abbot Memorial Library) |
| 11 | c.1860 – 2095/2097 Pomfret Road |
| 12 | c. 2000 - 2026 Pomfret Road |
| 13 | c. 1890 - 2035 Pomfret Road |
| 14 | c. 1845 - 2020 Pomfret Road |
| 15 | c. 1995 - 1995 Pomfret Road |
| 16 | c. 1980 - 1975 Pomfret Road |
| 17 | c. 1850 - 1933 Pomfret Road |
| 18 | c. 1835 - 1917 Pomfret Road |
| 19 | c. 1950 - 1869 Pomfret Road |
| 20 | c. 1930 - 1857 Pomfret Road |
| 21 | c. 1845 - 1854 Pomfret Road |
| 22 | c. 1920 - 1827 Pomfret Road |
| 23 | c. 1930 - 1806 Pomfret Road |
| 24 | 1926 - Pomfret Road Bridge |
| 25 | c. 1939 - Stage Road Bridge |

Table 1. Mapped properties displayed in Figure 4. Adapted from VHB (2022). Pink = NRHP Ineligible due to age or alterations, Red = NRHP Eligible, and Green = NRHP Listed.

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