



VTTrans Fall 2022 Transportation Alternatives (TA) Grant Application

Thoroughly read the ***Vermont Transportation Alternatives Fall 2022 Application Guide*** before you begin your application. It includes important program information and step-by-step instructions. Pay particular attention to the application process requirements. **Applications are due in hand or by e-mail by December 14, 2022.** Please e-mail the completed application to:

Scott.robertson@vermont.gov

Ripton Sand Shed
(Project Name/Title)

802-388-2266
(Phone)

Alison Joseph Dickinson
(Municipality contact person responsible for the management of this project)

ajdickinson@riptonvt.org
(e-mail address)

Ripton
(Town)

\$ 144,000
Amount of **Federal Funds requested** (no more than 80% of the project cost estimate).

05766
(Zip Code)

\$36,000

PO Box 10, Ripton VT 05766
(Mailing Address)

Amount of Local Match. Example:
Federal Award = \$300,000 (80% of total)
Local Match = \$75,000 (20% of total)
Total Project Cost = \$375,000 (100% of the total)

County: Addison

Town/Village/City: Ripton

Specific location, street, or road: 333 Peddlers Bridge RD (TH2) and Lincoln Rd (TH1)

Regional Planning Commission: Addison County Regional Planning Commission

If a linear project, what is the length in feet? Not linear

Is the project on or intersecting to a State maintained highway? Yes No

- *Note: If yes, be sure to include documentation that you have notified the VTTrans District Transportation Administrator of the intent to apply for TA funding and have provided them with a brief (one paragraph) description of the proposed project.*

Project type being applied for: Scoping Design/Construction

The municipality understands that a typical construction project utilizing Transportation Alternatives Program funds will take roughly three years (min.) in the Design and ROW phases prior to going to construction (as pointed out in the TA Program Application Guide)? Yes No

Does this project have a previously completed scoping or feasibility study? Yes No

Note:

Attach a map(s) of the project area and clearly show the limits of the project as well as surrounding benefits from the proposed improvement. If the project is within or adjacent to a designated downtown, village or growth center, clearly indicate the relationship of the proposed project to the boundary of the designated area. Color photos of the area are also recommended.

Fiscal Information:

Accounting System Automated Manual Combination

SAM Unique Identifier # XKH5NE3BJJY5

Fiscal Year End Month June

Property Ownership: Property is owned by the Town. The new shed location was purchased as part of this project.

If the proposed project is on private property that will need to be acquired by the Municipality through purchase, easement, or eminent domain (includes temporary construction rights) in accordance with the "Uniform Act", then the municipality is committed to exercising its right of *eminent domain* to acquire the rights to construct the project if necessary. Yes No

Funding:

Does this project already have existing funding? If so, please describe. Yes No

Yes, the project has funding through a FY19 Municipal Highway and Stormwater Mitigation program grant award of \$356,000 federal funds and \$89,000 local funds.

Will you accept an award less than you applied for? Yes No

- If yes, please indicate whether local funds will be used to make up the shortfall, or if the project scope will be reduced. If the project scope is to be reduced, describe what part of the project (please be specific) you would accept partial funding for.

Local funds will be used to make up the shortfall.

A support letter from the governing body of the applicant municipality or organization and an acknowledgement and source of the local match and commitment to future maintenance responsibility for construction projects is required (must be dated within 1 year of the application). Is a letter of support attached?

Yes No

Regional Planning Commission Letter of Support:

In order to apply, the project must have a letter of support from the regional planning commission. Is a letter of support attached?

Yes No

Application Scoring Criteria:

- 1. Please give a brief description of the project (be sure to indicate the primary facility type being applied for and be concise). (10 points max.)**

Construction of a 72' x 140' covered sand shed on a town-owned parcel on TH1 and removal of the existing sand pile from a Zone A floodplain. This project was funded by a FY19 Municipal Highway and Stormwater Mitigation Program grant, but additional funds are needed for construction.

- 2. What is the feasibility of this project? Feasibility (or Scoping) study applications will not be scored on this criterion. Also, please describe the extent of project development completed to date. (10 points max.)**

The construction plans, specifications, and bid documents are complete and transferred to VTrans. A copy of the plans and cost estimate are attached.

Full Contract Plan Set Ripton STP MM 19(18).pdf

Ripton-Sand & Salt Shed Bid Document.Complete 12.05.2022.pdf

- 3. Does this project address a need identified in a local or regional planning document? If so, please describe. (5 points max.)**

Yes, the need to store road sand in an environmentally sensitive way is documented in the Ripton Town Plan. It is also documented in planning commission meeting minutes and town reports, and in correspondence from the regional planning commission.

- 4. Does this project benefit a State Designated Center per the link below (i.e., downtowns, villages, or neighborhood growth centers recognized by the Vermont Department of Economic, Housing and Community Development)? (10 Points Max.)**

<http://maps.vermont.gov/ACCD/PlanningAtlas/index.html?viewer=PlanningAtlas>

No

- 5. Provide a project cost estimate below (project costs below include both federal dollars and local dollars). Projects will be scored based on whether the cost appears realistic for the size and scope of the project. For scoping studies, use PE and Local Project Management lines only.**

Note: If you are applying for additional funds for an existing project, show the amount being requested for this grant in the PE, ROW, Construction, Construction Engineering, and Municipal Project Management rows below. Also, be clear regarding total project cost and other funding amounts and sources in the additional funding comments box below. (10 points max.)

Preliminary Engineering (PE)

<i>(Engineering, Surveying, Permitting)</i>	\$ 0
Right-of-way / Acquisition (ROW) <i>(appraisals, land acquisition and legal fees)</i>	\$ 0
Construction <i>(construction costs with reasonable contingency)</i>	\$ 119,000
Construction Engineering <i>(cost to provide inspection during construction)</i>	\$ 11,900
Municipal Project Management Costs <i>(minimum of 10% of total PE, ROW and Construction Phases).</i>	\$ 13,079
Total Project Cost	\$ 143,869

Addition Funding Comments: (ex. Total and additional funding for existing projects)

Funding in place: \$385,557
 Remaining funds in Grant Agreement CA0559 Ripton STP MM19(18)

6. **Select the eligibility category below (A, B, C or D) that best fits your project and answer the corresponding questions for that category (choose only one category). 10 bonus points will be awarded to projects that are primarily Bicycle or Pedestrian facilities.**

Selected Category C

C. Environmental Mitigation Activity Related to Stormwater and Highways

- i. Please describe how this application provides environmental mitigation relating to stormwater and highways. **(10 points max.)**

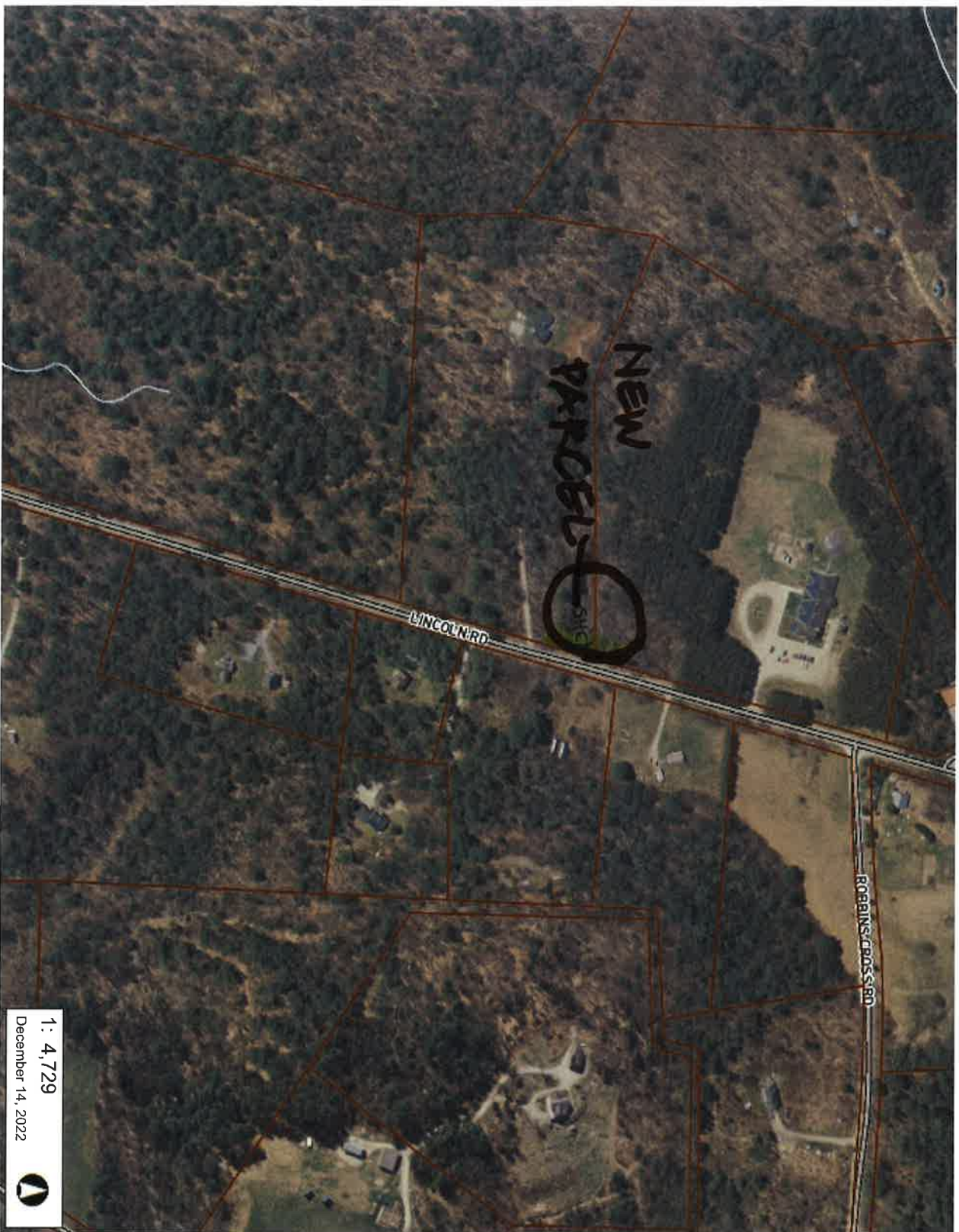
Damage and sand loss at the existing location is documented in several FEMA events including 2000, 2011, and 2017 when large amounts of sand washed away from the site. Erosion from the site happens in even small storms. Moving the sand pile and its related trucking and equipment activity from the floodplain will prevent and abate a repetitive pollution problem, reduce sediment flow into waters leading to Lake Champlain, and allow for floodplain restoration and better stormwater management.

- ii. What information or data is provided to substantiate the current stormwater problem and associated environmental impacts? **(10 points max.)**

Photos, damage history from FEMA eligible storm events, maps including the FEMAA FIRM map, and Addison County Riverwatch Collaborative sampling results regarding turbidity are provided to substantiate the problem and environmental impact. The site is in a Zone A floodplain and floods repeatedly. A fire station that was at the site was relocated with FEMA funds after flooding. On Dec. 7, 2022, Enforcement Officer Gary Urich of the VT Dept. of Environmental Conservation investigated a complaint about the sand pile eroding into the river.

- iii. What substantiating data or information is provided to show that the proposed application is an effective and maintainable solution to the problem? **(10 points max.)**

To quote ACRPC Executive Director, Adam Lougee, "Moving the piles to a better location away from the river that can appropriately store sand and salt just makes sense." The existing sand pile site erodes into the Middlebury River, flowing to Otter Creek and Lake Champlain. Removing the sand/salt pile and related activity and returning the site to vegetation solves a water quality problem. Studies for the management of the Middlebury River Corridor support this approach, as do the Town's efforts to secure and restore floodplain areas. Storage in an enclosed shed keeps the sand/salt erosion and water contamination problem from repeating. Handling and maintaining the sand pile in an environmentally safe way will be easier with an enclosed storage shed. Photos and maps are attached.



1 : 4,729
December 14, 2022



240.0
0
120.00
240.0 Meters
WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources
1" = 394 Ft. 1cm = 47 Meters
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

- 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
- Stream/River**
 - Stream
 - Intermittent Stream
- Town Boundary

**NEW SAND SHEP
LOCATION**

NOTES

Map created using ANR's Natural Resources Atlas

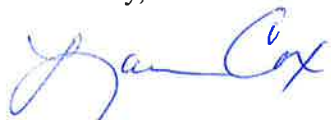
**Town of Ripton
Selectboard**

PO Box 10
1311 Route 125
Ripton VT 05766
802-388-2266

To: Vermont Agency of Transportation
Date: December 12, 2022
Re: Vermont Transportation Alternative Grant Application Fall 2022

The Ripton Selectboard is fully committed to meeting the local match requirement and future maintenance responsibility for the construction of the sand shed described in the Town's application to the Transportation Alternatives Grant Program. We have already purchased land and completed engineering for the sand shed with a SFY 2019 Municipal Highway and Stormwater Mitigation Program grant. Unfortunately we have a shortfall greater than \$130,000 for the estimated construction cost. We are eager (desperate even) to complete the project and move our winter sand pile from an open site in a floodplain next to a river to an enclosed shed. We appreciate your consideration, the assistance received to date, and offer our complete commitment.

Sincerely,



Lauren Cox, Chair

Timothy Hanson

Giles Hoyler

Ripton Selectboard



Alison Joseph Dickinson <ajdickinson@riptonvt.org>

Ripton sand shed project

Adam Lougee <alougee@acrpc.org>

Fri, Dec 9, 2022 at 1:44 PM

To: Alison Joseph Dickinson <ajdickinson@riptonvt.org>

Cc: Mike Winslow <mwinslow@acrpc.org>

Hi Alison:

This email constitutes ACRPC's continued support for Ripton's Salt shed application. Please re-attach our previous letter of support. This application should be even stronger since you have already secured a significant portion of the funding for the shed and this is needed to get to construction.

Best,

Adam

On Fri, Dec 9, 2022 at 12:58 PM Alison Joseph Dickinson <ajdickinson@riptonvt.org> wrote:

[Quoted text hidden]

*Addison County***Regional Planning Commission**

Adam G. Lougee, Executive Director

Addison County Regional Planning Commission

14 Seminary Street

Middlebury, Vermont 05753

(802) 388 -3141 Office

(802) 233-5420 Cell

alougee@acrpc.org

Addison County Regional Planning Commission

14 Seminary Street Middlebury, VT 05753 www.acrpc.org Phone: 802.388.3141 Fax: 802.388.0038

July 13, 2018

Alison Joseph Dickinson
Town Administrator, Clerk, Lister
Town of Ripton
802-388-2266
PO Box 10
Ripton VT 05766
ajdickinson@riptonvt.org

Re: Support of Ripton's Grant Application to re-locate and build a new sand and salt facilities.

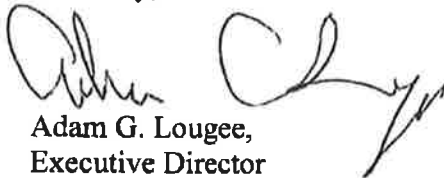
Dear Alison:

This letter constitutes the support of the Addison County Regional Planning Commission of the Town of Ripton's application to for funding to move its current salt and sand piles away from the Middlebury River.

Contamination of rivers and streams with road sand and salt is a significant concern. Ripton's current sand and salt storage area sits right on the Middlebury River and consistently erodes directly into the river. Moving the piles to a better location away from the river that can appropriately store sand and salt just makes sense.

The Addison County Regional Planning Commission is in full support of Ripton's request for funding to improve water quality in the Middlebury River by moving and improving its salt and sand facilities.

Sincerely,

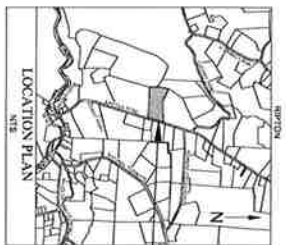

Adam G. Lougee,
Executive Director

Addison	Bridport	Bristol	Cornwall	Ferrisburgh	Goshen	Leicester
Lincoln	Middlebury	Monkton	New Haven	Orwell	Panton	Ripton
Salisbury	Shoreham	Starksboro	Vergennes	Waltham	Weybridge	Whiting



TOWN OF RIPTON COUNTY OF ADDISON SAND AND SALT SHED PROJECT RIPTON STP MM 19(18)

LOCATED ON A PARCEL OF LAND ADJACENT TO THE RIPTON ELEMENTARY SCHOOL PROPERTY, AT 643 LINCOLN ROAD.
WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES THE CONSTRUCTION OF A NEW 72' WIDE BY 140' LONG SAND AND SALT SHED WITH RELATED SITEWORK INCLUDING A NEW PAVED DRIVEWAY AND STORMWATER IMPROVEMENTS.



INDEX OF SHEETS

- 1A TITLE SHEET
- 1B CONVENTIONAL SYMBOLS, OPTIC, EROSION
- 2 QUANTITY SHEET
- 3 EROSION DETAILS & GENERAL SPECIFICATIONS
- 4 TRAFFIC CONTROL CONSTRUCTION
- 5 SAND & SALT SHED DETAILS
- 6 SITE PLAN
- 7 EROSION CONTROL PLAN
- 8 EROSION CONTROL PLAN
- 9 ELECTRICAL SITE PLAN
- 10 ELECTRICAL NOTES, LEGEND, SCHEDULES AND DETAILS
- 11 ELECTRICAL DETAILS

STANDARD SHEETS

- E-21 STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES
- E-22 STANDARD FOR SIDEWALKS
- E-10 ROLLER EROSION CONTROL, PRODUCT, TYPE I
- E-11 ROLLER EROSION CONTROL, PRODUCT, TYPE II
- E-12 STABILIZED CONSTRUCTION ENTRANCE
- T-1 TRAFFIC CONTROL, GENERAL NOTES
- T-2 TRAFFIC CONTROL, GENERAL NOTES
- T-3 TRAFFIC CONTROL, GENERAL NOTES
- T-28 CONSTRUCTION SIGN DETAILS
- T-30 CONSTRUCTION SIGN DETAILS
- T-36 CONSTRUCTION SIGN DETAILS
- T-38 CONSTRUCTION SIGN DETAILS

NOTES:

1. THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE VERMONT AGENCY OF TRANSPORTATION. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 2018 FOR USE ON THIS PROJECT.
2. INDIVIDUAL PROPERTY LINES WERE LOCATED BASED ON FOUND EVIDENCE AND TOWN PARCEL MAPPING.
3. LINES SHOWN ON THESE PLANS AS EXISTING PROPERTY LINES ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE ACQUISITION OF LANDS AND RIGHTS FOR THIS PROJECT.

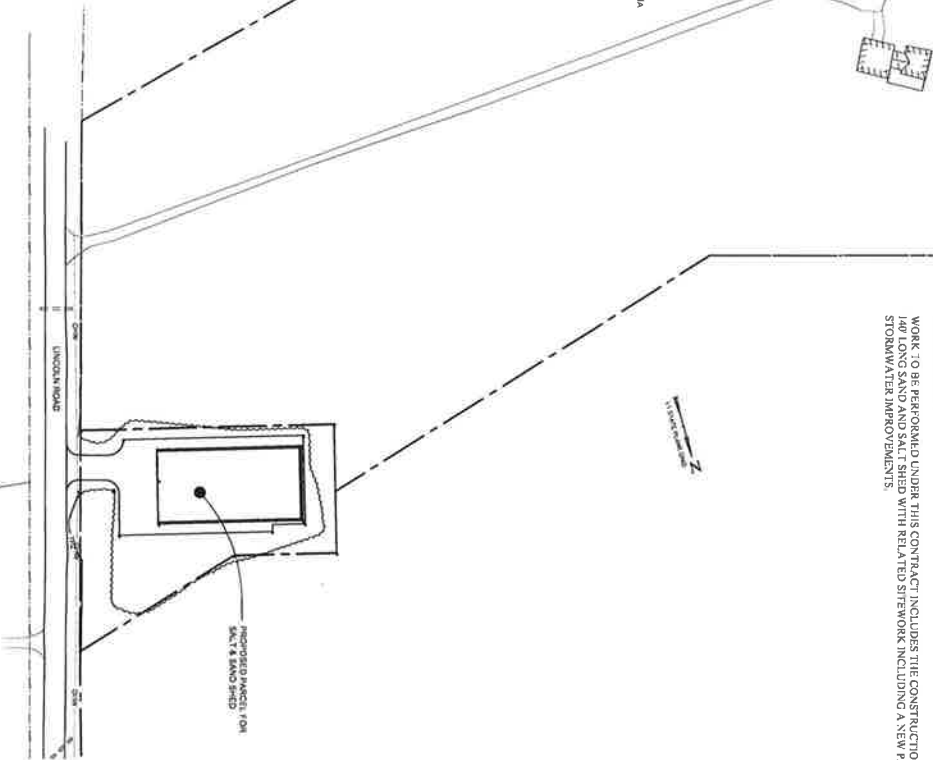
**CONTRACT PLANS
NOVEMBER, 2022**

RIPTON STP MM 19(18)

Lamooureux & Dickinson
Consulting Engineers, Inc.
116 Main Street, Box 10452
Ripton, VT 05492
www.Lamooureux.com

U.S. PROJECT NUMBER: 18029
DRAWN BY: JLD
CHECKED BY: DDBR
SHEET: 1

This plan was originally prepared by Lamooureux & Dickinson Consulting Engineers, Inc. E-285 to the plan order May 16, 2022 were performed by TCE, Inc. Client agrees to indemnify and hold harmless TCE, Inc. from any damages, liabilities or costs, including attorney's fees, that may be incurred by TCE, Inc. as a result of alleged) arising from any negligent act or omission by any other consultant retained by the Client for this project.

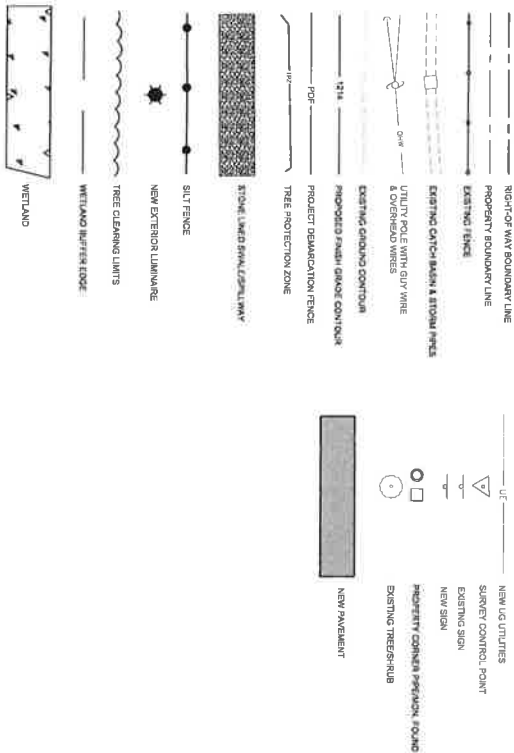


QUALITY ASSURANCE PROGRAM : LEVEL 3
SURVEYED BY : LAMOUREUX & DICKINSON
SURVEYED DATE : 2018

DATUM
VERTICAL : NAVD 1988
HORIZONTAL : NAD 1983



This plan was originally prepared by Lamoureux & Dickstein Consulting Engineers, Inc. Edits to the plan after May 16, 2022 were performed by J.C.E. Inc. Client agrees to indemnify and hold Lamoureux & Dickstein Consulting Engineers, Inc. harmless from and against all claims, damages, costs or allegedly arising from any negligent acts, errors or omissions by any other consultant retained by the Client for this project.



LEGEND



**CONTRACT PLANS
NOVEMBER, 2022**

**CONVENTIONAL
SYMBOLOLOGY-
LEGEND**

RIPTON STP MM 19(18)



Lamoureux & Dickstein
Consulting Engineers, Inc.
14 Maple Drive, Essex, VT 05452
802.733.4438 www.ladce.com

LAD PROJECT NUMBER: 19029
DRAWN BY: CLM
CHECKED BY: DOPD

SHEET
1A

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS		DETAILED SUMMARY OF QUANTITIES		
Item No.	Quantity	Unit	Material	Plant	Location	Contract	Quantity	Unit	Material	Plant	Location	Quantity	Unit	Material	Plant	Location
1	1	LS	G. LEAVING AND OPENING INCLUDING TYPICAL TIES AND STUUPS				201.12									
24	24	EOCH	ROADWAY MEDIAN TIES				201.14									
1090	1090	C'	COMMON DECKVA TON				201.15									
820	820	C'	GRANULAR BEDDING				203.32									
27	27	C'	TRUCK EXCAVATION OF SAND				204.22									
811	811	C'	BASE OF OR DREDGED DRIVE COURSE GRADED				201.24									
438	438	TON	SUBGRADE FILL AND ASPHALT CONCRETE (PA 811)				402.31									
1	1	LJ	PROF. ADJUSTMENT ASPHALT CONCRETE (PA 811)				402.52									
8	8	HR	POWER BROODING/RT. TYPE I				602.32									
0.5	0.5	MCAL	SLAB CONTROL WITH WATER				603.12									
18	18	C'	STONE FILL TYPE I				617.12									
80	80	HR	E. ACCESS				620.15									
1	1	LS	MOBIL DATA DOWNGRADE LOCATION				628.11									
1	1	LS	TRAFFIC CONTROL ALL-INCLUSIVE				641.11									
1847	1847	SV'	GEOTEXTILE FOR ROADBED SEPARATION				642.11									
31	31	SV'	GEOTEXTILE UNDER STONE FILL				642.31									
71	71	SV'	GEOTEXTILE FOR FILTER COURSE				642.81									
32	32	LS	BASE				651.14									
133	133	LS	TRINITY				651.14									
81	81	TON	AGGREG. 3/8" BALL LIMESTONE				651.22									
140	140	C'	TOPSOIL				651.32									
8	8	HR	MONITORING ESCU PLAN				651.02									
0.5	0.5	TON	1/4" M. ALUM.				651.12									
165	165	SV'	NO. 10 BORDON CONTROL PRODUCT TYPE I				651.22									
31	31	C'	STABILIZED CONSTRUCTION ESTIMATE				651.32									
781	781	LF	PROJECT GRANULAR TYPED				651.32									
1	1	EOCH	AVENUE TIES				652.22									
1	1	LS	TIE PROTECTION				652.42									
126	126	LF	WREED CONTROL				672.21									
1	1	EOCH	SPECIAL PROVISION (QUIP RAIL & Lumber Assembly)				601.02									
1	1	LS	SPECIAL PROVISION (S&S Sand Shield)				602.45									



PROJECT NAME: Ripton Sand & S&S Shield
 PROJECT NUMBER: RPTON STP MM 19(18)
 FILE NAME: PROJECT LEADER: GD
 CHECKED BY: INVENTOR: M
 QUANTITY SHEET #1: DATED: 07/20/21
 SHEET # 1 OF 5

GENERAL CONSTRUCTION SPECIFICATIONS

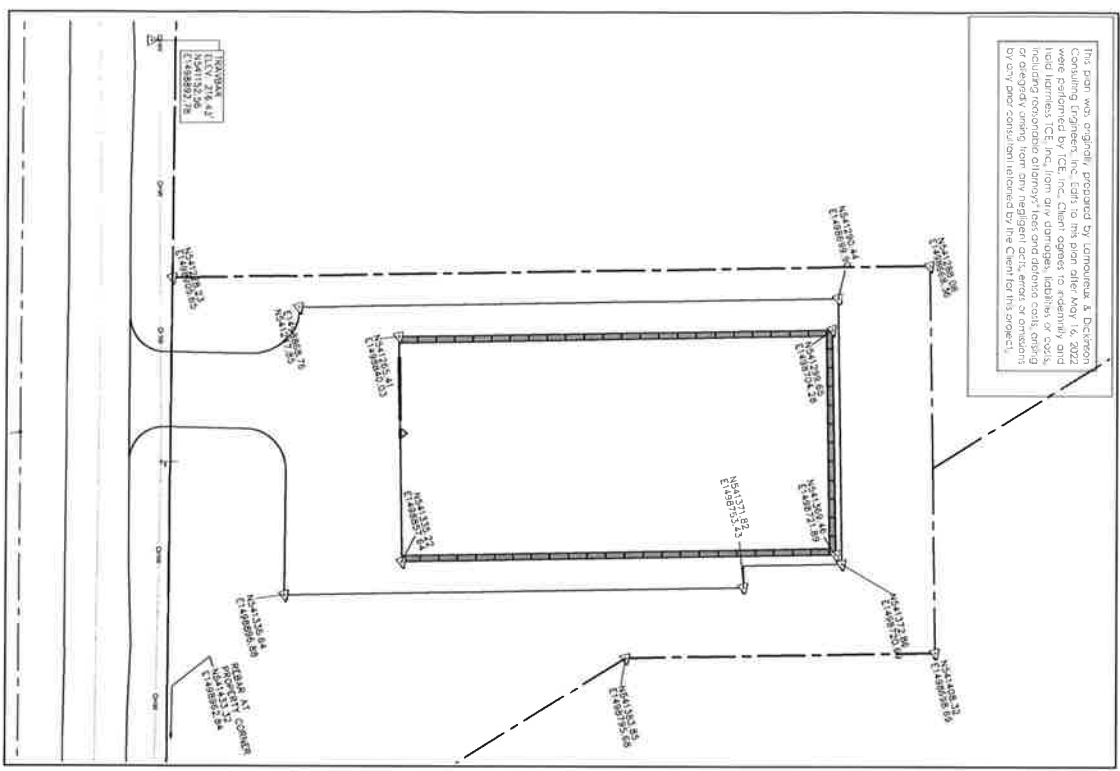
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE VTDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE MANUAL ON UNIFORM PRACTICE CONTROL DEVICES (2009 EDITION) AND THESE CLARIFICATIONS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE BEGINNING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE UTILITIES BEFORE CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE LOCATION OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR MARKING ALL UTILITIES AND SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE LOCATION OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR MARKING ALL UTILITIES AND SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES THROUGHOUT CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE LOCATION OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR MARKING ALL UTILITIES AND SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES THROUGHOUT CONSTRUCTION.

TURF ESTABLISHMENT SPECIFICATIONS

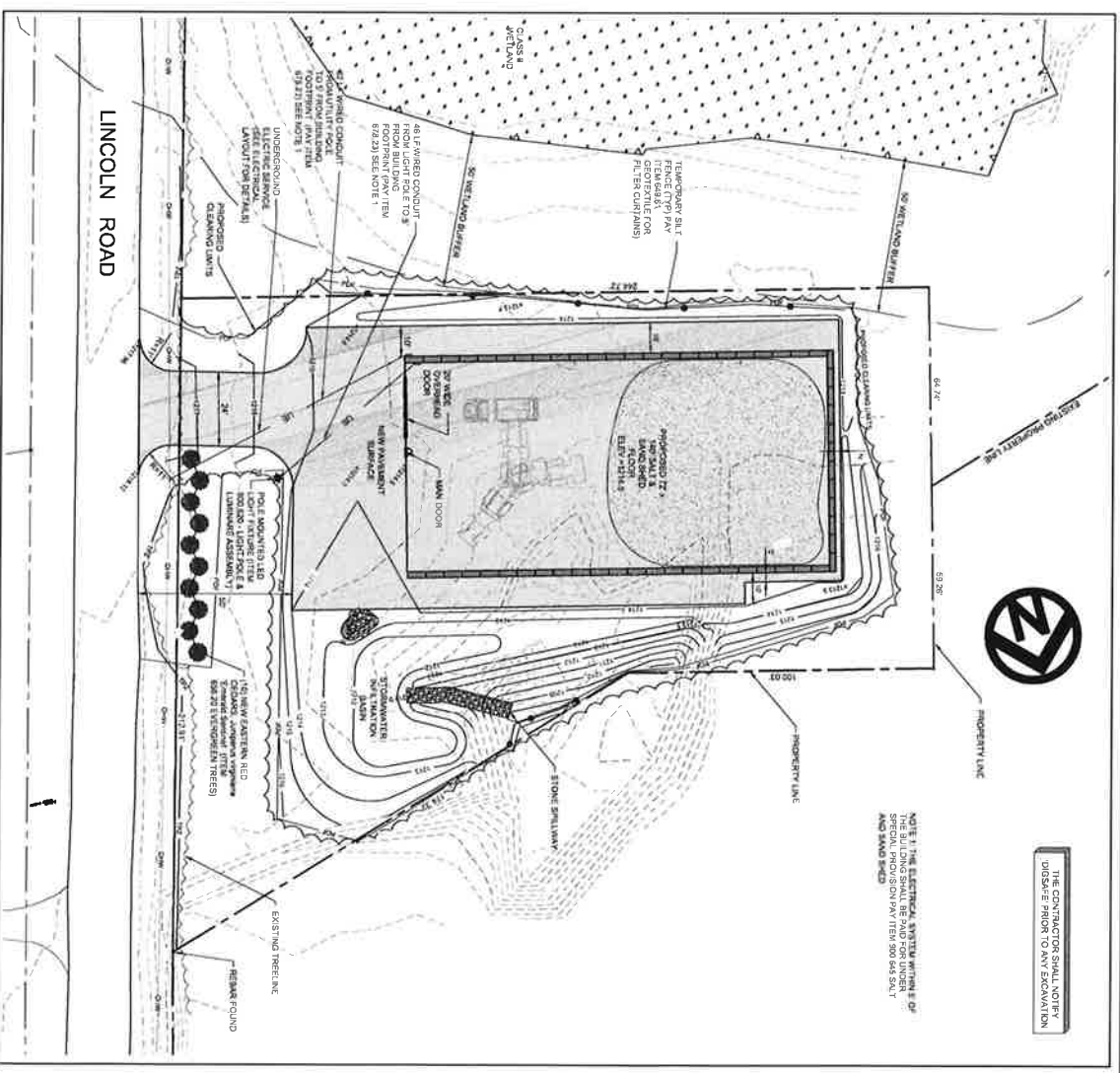
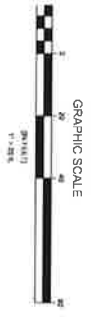
1. USE WAT RURAL AREA SEED MIX AS NOTICED BELOW FOR ALL NON-PAVED AREAS DISTURBED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL PREPARE A SOIL TEST OF THE DISTURBED AREAS AND SUBMIT IT TO THE ENGINEER FOR APPROVAL. AS PER VTDOT SPECIFICATIONS ONLY APPROVED TOPSOIL SHALL BE USED. FERTILIZER AND/OR LIME SHALL ONLY BE APPLIED IF THE RESULTS OF THE SOIL TESTS INDICATES THE NEED FOR THEM.
3. SEED SHALL BE PLACED ON SEAMLESS MATS AT THE RATE OF 2 TONS/acre. ACHIEVE 90% GROUND COVER ON AS DIRECTED BY THE ENGINEER. PHASE 1 AND PHASE 2 SHALL BE PLACED BETWEEN APRIL 15 AND SEPTEMBER 15 TO ENSURE A ROBUST VEGETATION OF SEEDS.
4. APPROVED TOPSOIL TO BE USED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. TURF ESTABLISHMENT SHALL BE PERFORMED UNDER CLOSE SUPERVISION AND SHALL BE PLACED BETWEEN APRIL 15 AND SEPTEMBER 15 TO ENSURE A ROBUST VEGETATION OF SEEDS.

NAME	SCIENTIFIC NAME	PERCENTAGE	USDA	USDA	USDA	USDA
GRASS	POA ANNUA	25%	1	1	1	1
GRASS	POA TRIVIALIS	25%	1	1	1	1
GRASS	POA PRENSILE	25%	1	1	1	1
GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
GRASS	POA TRIVIALIS	25%	1	1	1	1
GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
GRASS	POA TRIVIALIS	25%	1	1	1	1
GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
GRASS	POA TRIVIALIS	25%	1	1	1	1
GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
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GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
GRASS	POA TRIVIALIS	25%	1	1	1	1
GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
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GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
GRASS	POA TRIVIALIS	25%	1	1	1	1
GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
GRASS	POA TRIVIALIS	25%	1	1	1	1
GRASS	POA ALBA	25%	1	1	1	1
GRASS	POA COMMUNIS	25%	1	1	1	1
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GRASS						

This plan was originally prepared by Lamoureux & Dickinson Consulting Engineers, Inc. (L&D) to this plan after May 16, 2022 were performed by ICE, Inc. Client agrees to indemnify and hold harmless ICE, Inc. from any damages, liabilities or costs, including reasonable attorney's fees, arising from the use, reproduction or display of any drawings, plans, specifications or conditions of any project, in whole or in part, prepared or provided by any person or entity retained by the Client for this project.



COORDINATE LAYOUT PLAN



SITE PLAN
CONTRACT PLANS
NOVEMBER, 2022

SITE PLAN & COORDINATE LAYOUT PLAN

L&D Lamoureux & Dickinson Consulting Engineers, Inc.
14 Main Drive, Essex, VT 05453
802-874-5450 www.Landginc.com

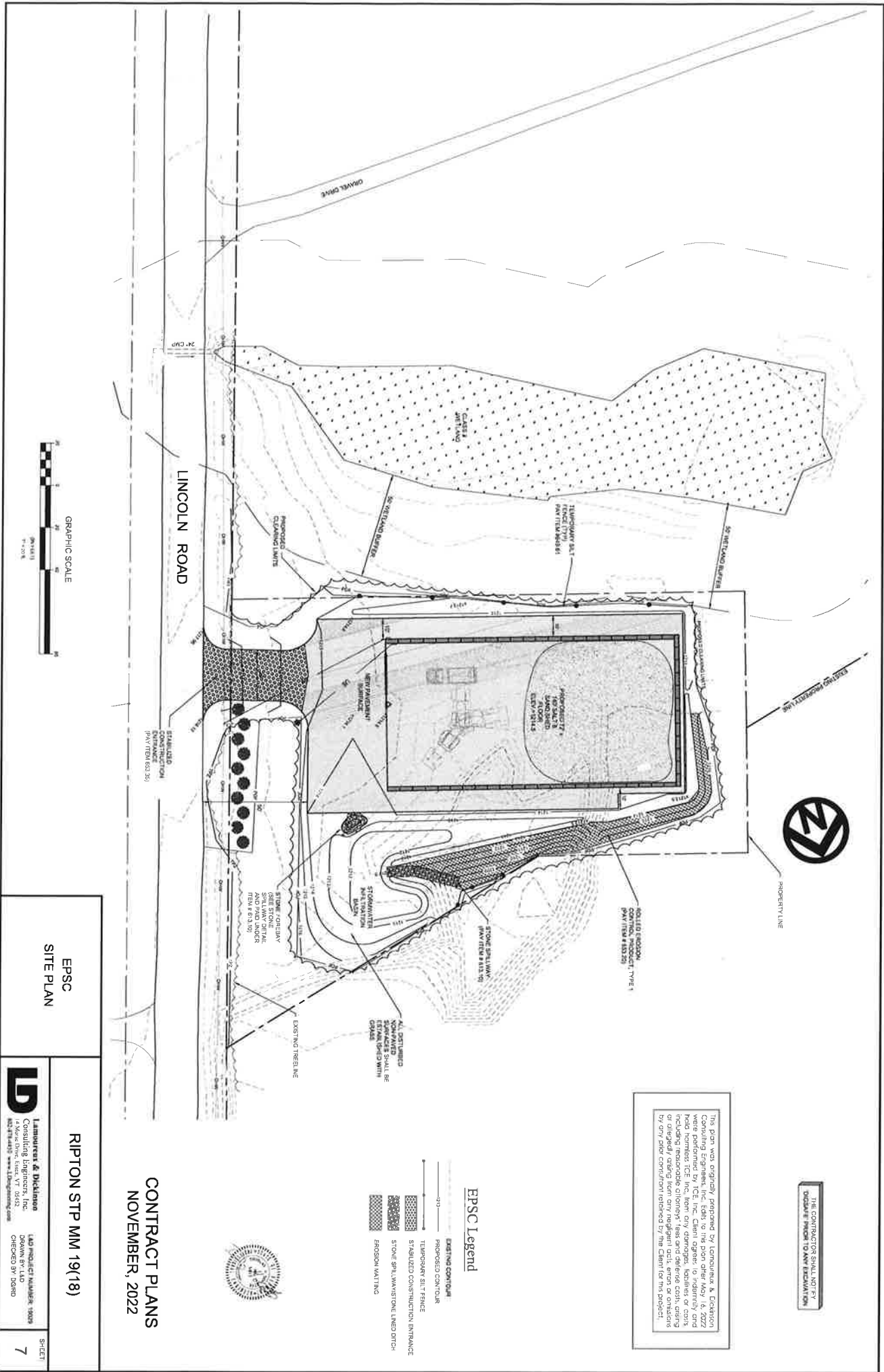
L&D PROJECT NUMBER: 1929
DRAWN BY: CLM
CHECKED BY: DGM

RIPTON STP MM 19(18)

SHEET **6**

THE CONTRACTOR SHALL NOTIFY DISSEASE PRIOR TO ANY EXCAVATION

NOTE: THE ELECTRICAL SYSTEM WORKING OF THE BUILDING SHALL BE PAID FOR UNDER THE PROVISION OF THE 1905 MASS SGLT AND SHALL BE PAID FOR UNDER THE 1905 MASS SGLT



THE CONTRACTOR SHALL NOTIFY
 US IMMEDIATELY IN WRITING
 OF ANY DISCREPANCY

The data used, prepared, processed by Landmark & Eckstein Consulting Engineers, Inc. (Eckstein) for the purpose of this contract were prepared by TCE, Inc. Clean agents, to indirectly and hold harmless TCE, Inc. from any damages, liabilities or costs, including reasonable attorney's fees and defense costs, arising from or due to any error, omission or negligence in the design or construction of any part of the project, whether or not caused in whole or in part by any other construction related to the project.

EPSC Legend

- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY ALTITUDE
- STABILIZED CONSTRUCTION ENTRANCE
- STONE SPILLWAY/STONE LINED DITCH
- PROPOSED WALLING



EPSC
 SITE PLAN

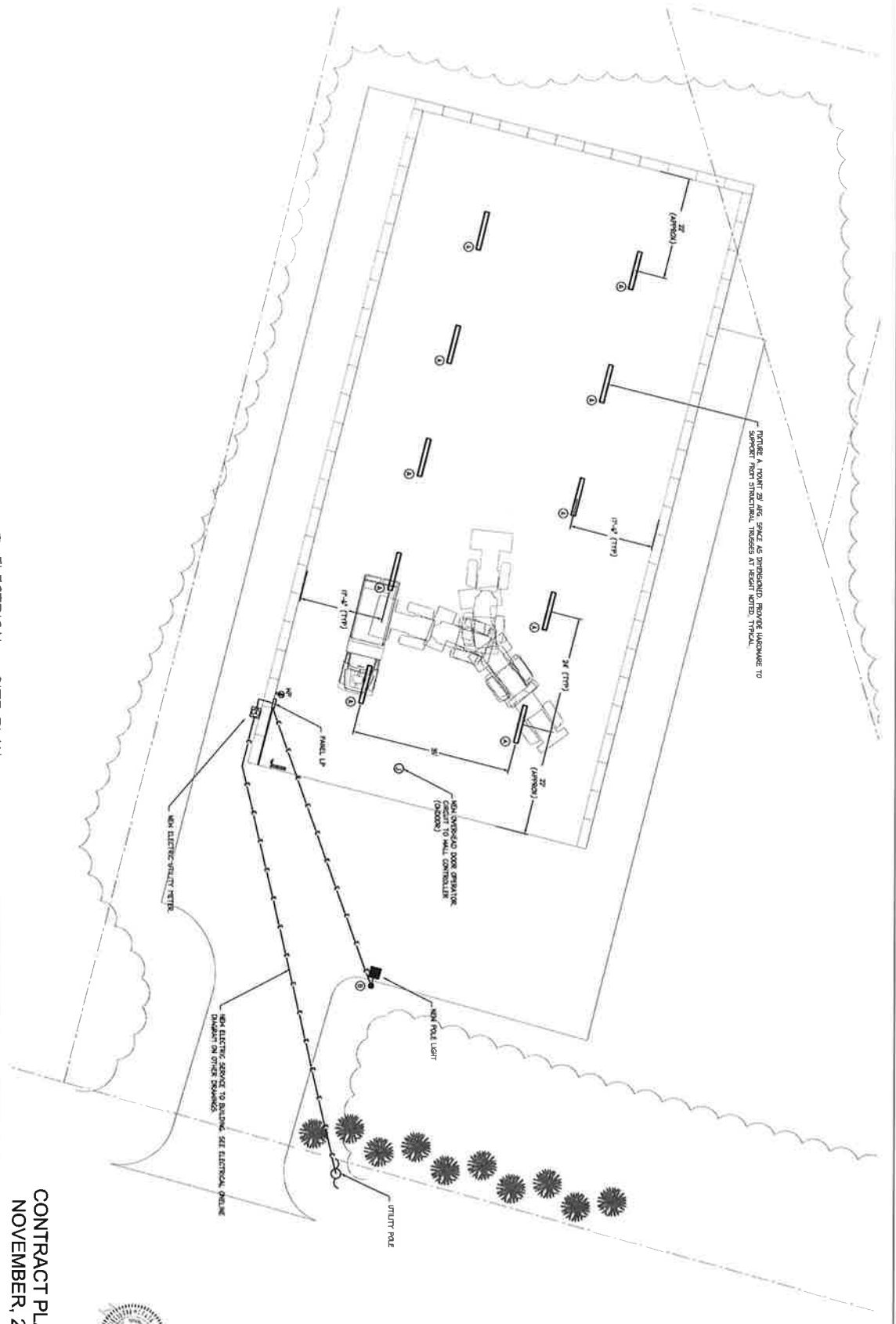
RIPTON STP MM 19(18)

CONTRACT PLANS
 NOVEMBER, 2022

LD Landmark & Eckstein
 Consulting Engineers, Inc.
 1 Water Drive, Essex, VT 05452
 802-885-7600 • www.LandmarkEckstein.com

DATE: 11/15/22
 DRAWN BY: TLD
 CHECKED BY: DGRD

SHEET
 7



① ELECTRICAL - SITE PLAN
SCALE: 1" = 10'

CONTRACT PLANS
NOVEMBER, 2022



ENC CONSULTING
268 E. VYAN AVENUE
SUITE 102
BURLINGTON, VT 05401
(802) 665-1733
www.EncConsulting.com
LNC Project No. 21027

Lampert & Biddison
Consulting Engineers, Inc.
14 Main Drive, Essex, VT 05432
802-874-4410 www.LampertEng.com
LNC PROJECT NUMBER: 11029
DRAWN BY: LNC
CHECKED BY: JANC

ELECTRICAL SITE PLAN

Estimate FINAL

Estimated Cost:\$468,029.11

Contingency: 0.00%

Estimated Total: \$468,029.11

Conceptual Plans

Base Date: 07/13/21

Spec Year: 18

Unit System: E

Work Type: BUILDING CONSTRUCTION

Highway Type: LOCAL

Urban/Rural Type: RURAL

Season: CONSTRUCTION (APRIL 15th - OCTOBER 15th)

County: RIPTON

Latitude of Midpoint: 441456

Longitude of Midpoint: 724454

District: NW

Federal Project Number: Ripton STP MM 19(18)

State Project Number:

Estimate Type: FINAL PLANS

Prepared by NDS on 07/13/21

Checked by DJG on 07/13/21

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Group 1011: Facility					
0005	201.10	1.000	LS	\$5,000.00000	\$5,000.00
CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS					
0006	201.15	24.000	EACH	\$300.00000	\$7,200.00
REMOVING MEDIUM TREES					
0007	204.20	27.000	CY	\$79.81323	\$2,154.96
TRENCH EXCAVATION OF EARTH					
0009	203.15	1,090.000	CY	\$15.77389	\$17,193.54
COMMON EXCAVATION					
0011	203.32	320.000	CY	\$28.95957	\$9,267.06
GRANULAR BORROW					
0014	301.25	811.000	CY	\$36.26158	\$29,408.14
SUBBASE OF CRUSHED GRAVEL, COARSE GRADED					
0015	406.35	438.000	TON	\$150.00000	\$65,700.00
SUPERPAVE BITUMINOUS CONCRETE PAVEMENT					
0019	609.10	0.500	MGAL	\$43.00000	\$21.50
DUST CONTROL WITH WATER					
0020	613.10	15.000	CY	\$55.00000	\$825.00
STONE FILL, TYPE I					
0028	630.15	80.000	HR	\$40.00000	\$3,200.00
FLAGGERS					
0029	635.11	1.000	LS	\$39,000.00000	\$39,000.00
MOBILIZATION/DEMOBILIZATION					
0030	641.11	1.000	LS	\$1,000.00000	\$1,000.00
TRAFFIC CONTROL, ALL-INCLUSIVE					
0031	649.11	1,947.000	SY	\$3.24704	\$6,321.99
GEOTEXTILE FOR ROADBED SEPARATOR					
0032	608.30	8.000	HR	\$65.00000	\$520.00
POWER BROOM RENTAL, TYPE I					
0033	649.31	31.000	SY	\$6.02459	\$186.76
GEOTEXTILE UNDER STONE FILL					
0034	653.55	781.000	LF	\$1.15545	\$902.41
PROJECT DEMARCATION FENCE					
0039	656.85	1.000	LS	\$1,000.00000	\$1,000.00
TREE PROTECTION					
0041	678.23	126.000	LF	\$25.63159	\$3,229.58
WIRED CONDUIT					
0042	900.620	1.000	EACH	\$4,750.00000	\$4,750.00
SPECIAL PROVISION (Light Pole & Luminaire Assembly)					
0043	900.645	1.000	LS	\$255,000.00000	\$255,000.00
SPECIAL PROVISION (Salt & Sand Shed)					
0055	406.50	1.000	LU	\$1.00000	\$1.00
PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Total for Group 1011:\$451,881.94

Group 1015: Erosion Control

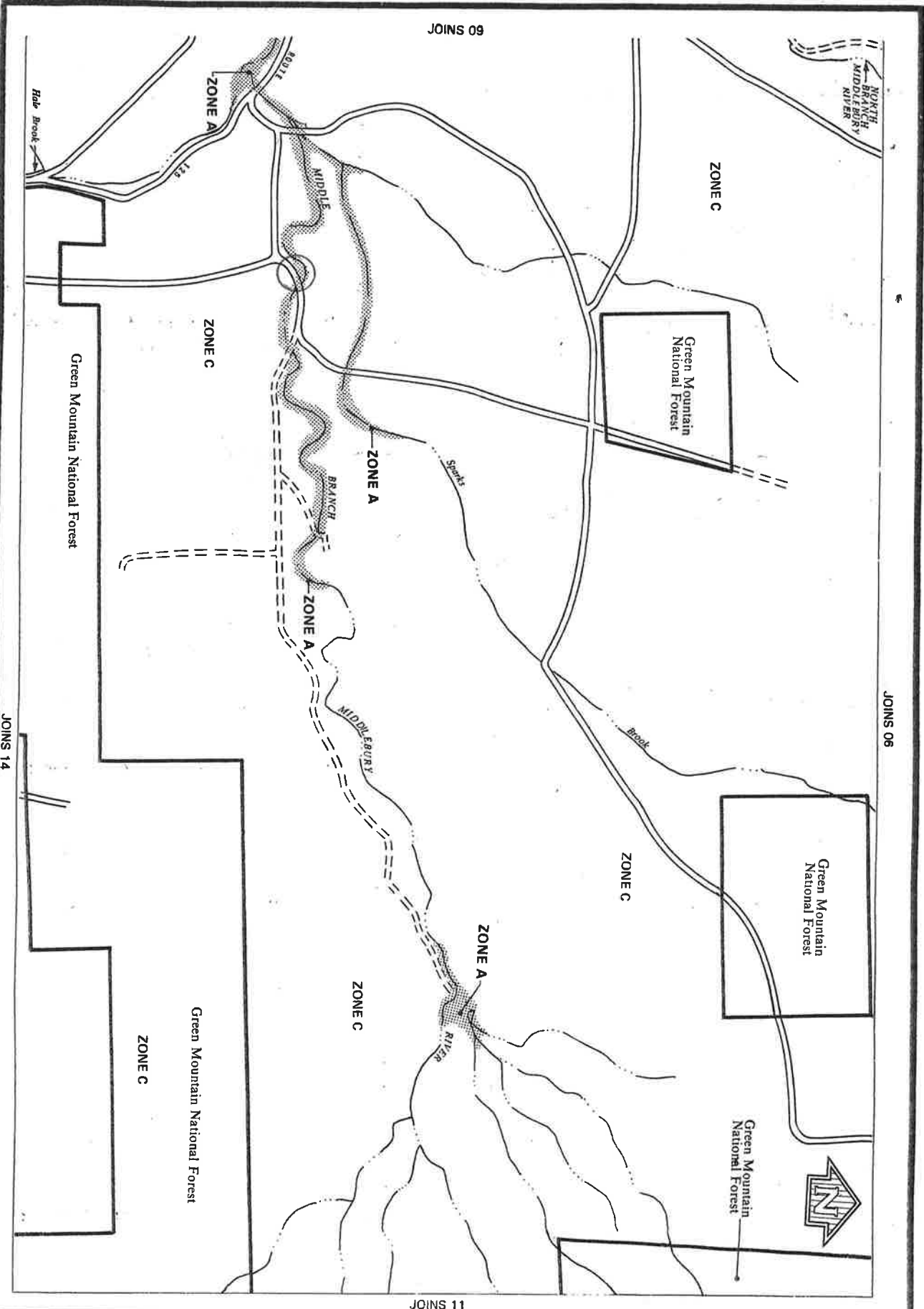
0045	651.15 SEED	32.000	LB	\$7.53230	\$241.03
0046	651.18 FERTILIZER	132.000	LB	\$3.07743	\$406.22
0047	651.20 AGRICULTURAL LIMESTONE	0.100	TON	\$759.89242	\$75.99
0048	651.35 TOPSOIL	140.000	CY	\$58.95809	\$8,254.13
0049	653.02 MONITORING EPSC PLAN	8.000	HR	\$40.00000	\$320.00
0050	653.10 HAY MULCH	0.500	TON	\$500.00000	\$250.00
0051	653.20 ROLLED EROSION CONTROL PRODUCT, TYPE I	185.000	SY	\$2.41516	\$446.80
0053	653.35 STABILIZED CONSTRUCTION ENTRANCE	31.000	CY	\$67.44735	\$2,090.87
0054	649.61 GEOTEXTILE FOR FILTER CURTAIN	77.000	SY	\$15.39234	\$1,185.21

Total for Group 1015:\$13,270.25

Group 1016: Facility - Non-Participating

0056	656.20 EVERGREEN TREES	10.000	EACH	\$287.69202	\$2,876.92
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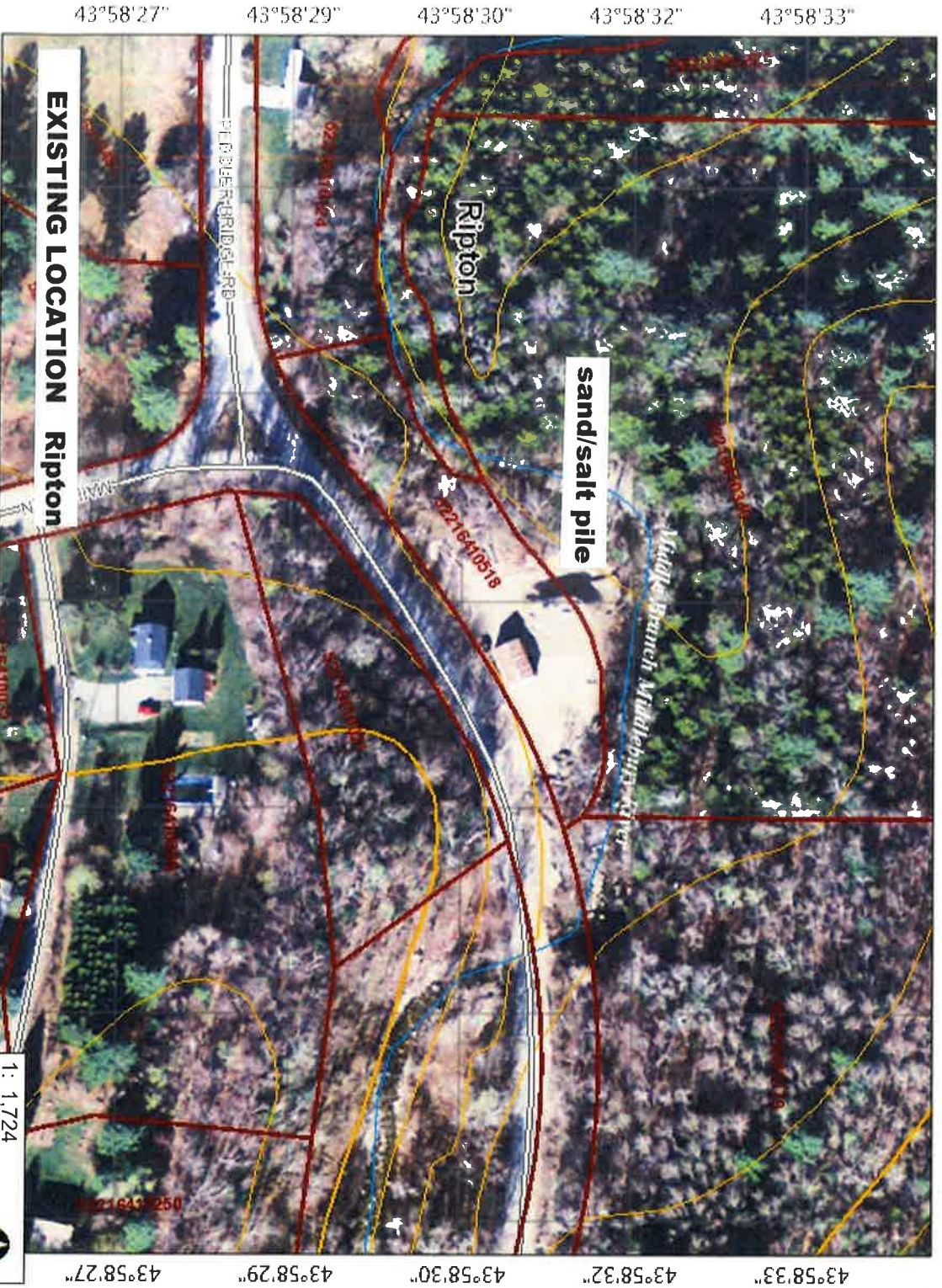
Total for Group 1016:\$2,876.92





federal emergency management agency TOWN OF RIPTON, VT (ADDISON CO.)	APPROXIMATE SCALE 	EFFECTIVE DATE SEPTEMBER 18, 1985
	FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 500010 B	

EXISTING LOCATION Ripton sand/salt pile
Zone A
FEMA Flood Insurance Rate Map





LEGEND

-  Parcels (Standardized)
- Roads**
 -  Interstate
 -  Principal Arterial
 -  Minor Arterial
 -  Major Collector
 -  Minor Collector
 -  Local
 -  Not part of function Classification S
-  Waterbody
-  Stream
-  Parcels (Non-Standardized)
-  Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas



RIPTON PEBBLES BRIDGE RD TOWN SHED/SAND SALT JULY 2017

SAND/SALT PILE REMAINS

WASTED TO RIVER



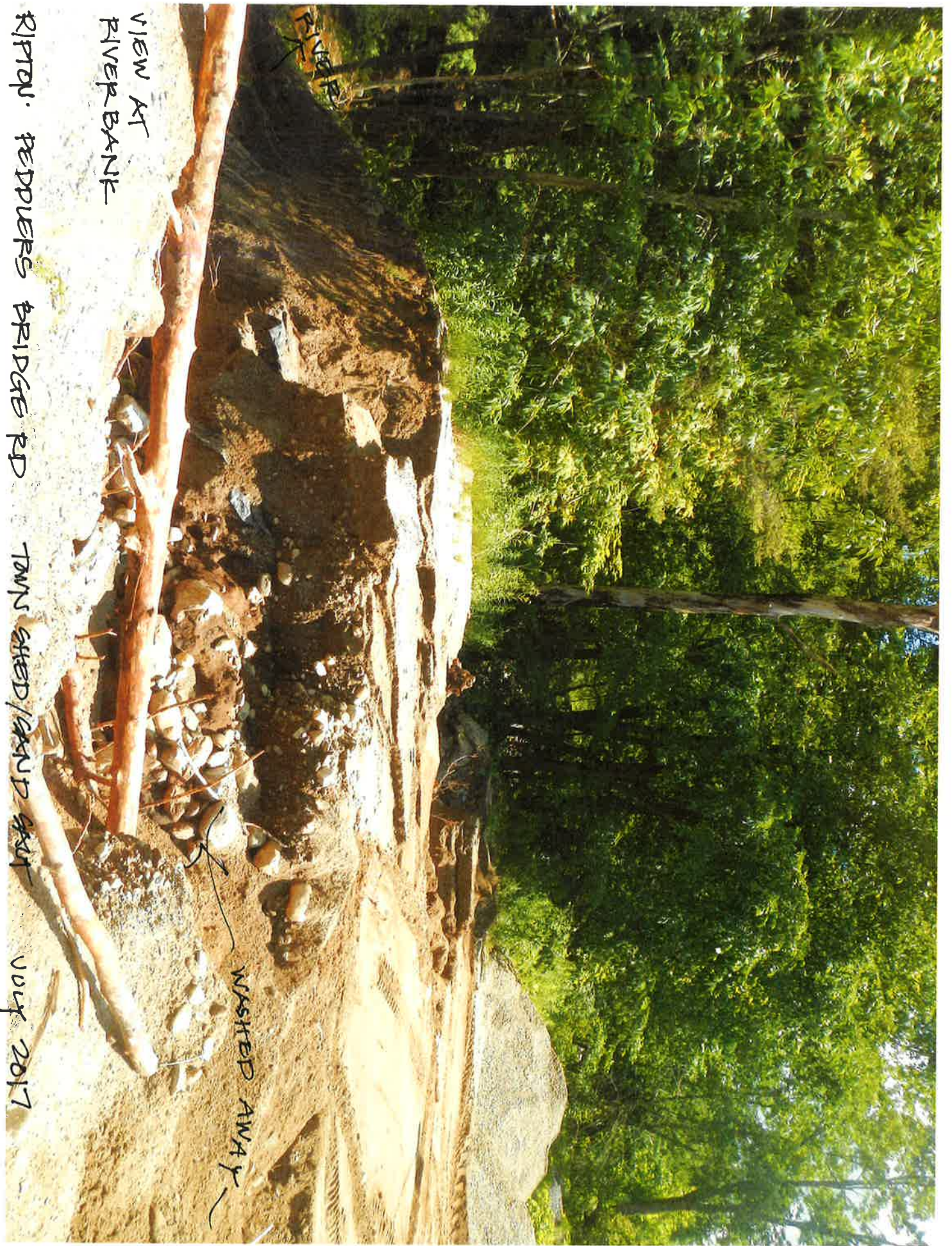


SAND/SALT PILE REMAINS

WASHED TO RIVER

BT

RIPTON PEPPERIDGE BRIDGE RD TOWN SHEP/SAND-SALT JULY 2017



VIEW AT
RIVER BANK

RIVER

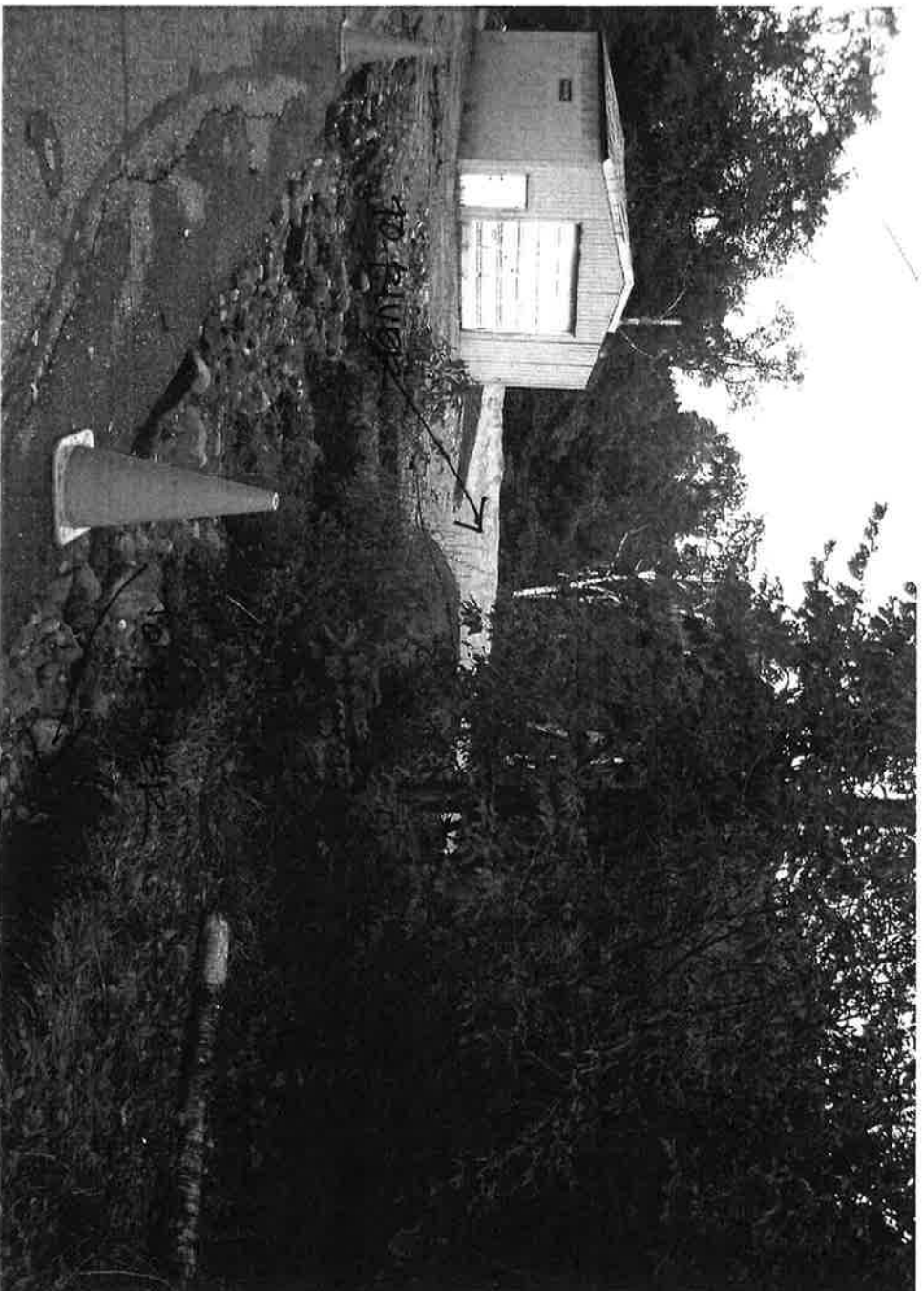
RIPTON. PEDDERS BRIDGE RD. TOWN SHED / SAND SHED
JULY 2017

WASHED AWAY



TO RIVER

RIPTON: PEPPER BRIDGE RD / TOWN SAVED/SAND SALT PILE JULY 2017



2011 FLOOD DAMAGE

RITON. REDDERS BRIDGE RD TOWN SATED / SAND. SKIT PILE 2011



2000 FLOOD PHOTO

RIPTON PEDDERS BRIDGE RD TOWN SHED / SAND-SILT PILE

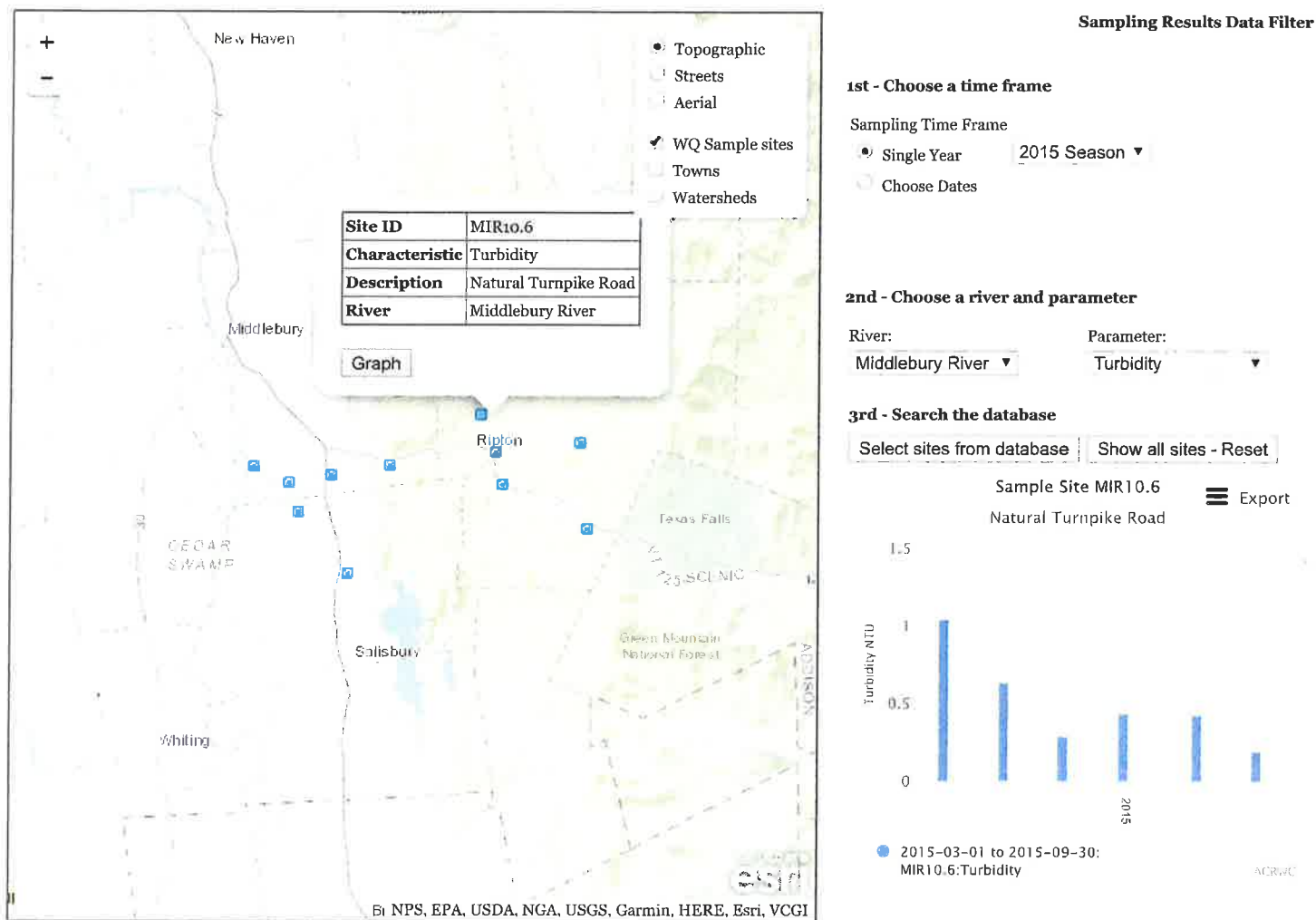
2000

Supplemental Information: Ripton application

The Addison County River Watch Collaborative samples water quality at a site in the Middle Branch of the Middlebury River near Billings Bridge on Natural Turnpike in Ripton. This site is downstream of the town sand/salt pile on Peddlers Bridge Road. The sample site is also downstream of Sparks Brook which joins the river below the town sand/salt pile. The most recent graph publicly available showing turbidity measures at the sample site is below.

Addison County River Watch Collaborative

Water Quality Database 1992-2015



[ACRWC Summary Reports by year and watershed](#)

[Addison County River Watch Collaborative Home](#)

Supplemental Information: Ripton application

Summary of Declared Disasters 1973-2017

From *Town of Ripton, Vermont Single Jurisdiction Update All-Hazards Mitigation Plan*

1.6. Community Risk Assessment

In Ripton, the interviews for the 2013 plan indicated that the following hazards should be listed as High or Medium-High in terms of likelihood –Power Failure, Flooding, High Winds, Landslide, Lightning, HazMat (Transportation Accidents), Structure Fire, Wildfire, and Winter Storm. In terms of Vulnerability, the town rated these hazards as High or Medium-High –Flooding, Landslide, HazMat, Wildfire, Winter Storm and Earthquake. Hazards that rated as high total risk include Flooding, Landslide, HazMat, Wildfire, and Winter Storm. (see complete HIRA table for Ripton at Annex E.)

A 2017 reassessment of Ripton’s hazards and risks by the hazard mitigation committee indicated that Flash Flood, High Wind and Ice Storm still comprise the greatest concerns in town. Of lesser concern yet still of elevated priority were Inundation Flooding and Severe Snow events. These 5 hazards are profiled to a greater extent in 1.6.1. Remaining hazards assessed including Dam Failure, Lightning Strike, Hail, Tornado, Drought, Wildfire, Earthquake, Infectious Disease, Insect-borne Illness, Invasive species, Extreme temperature, HazMat Spill, Highway Accident, Structure Fire and Rockslide were considered of lesser concern to committee members and were not profiled in depth. Given the actual expenses the community has incurred since 1973, (See Table #1 Below), the committee’s assessment closely mirrors its disaster experience.

Date	Description	Dec. #	County Cost	Ripton
7/6/1973	Storms, Flooding, Landslides	DR397	\$ Unavailable	Unknown
8/5/1976	Storms, High Winds, Flooding	DR518	\$ Unavailable	Unknown
9/6/1977	Drought	EM3053	\$ Unavailable	Unknown
8/4-5/1989	Severe Storms, Flooding	DR840	\$ 31,033	Unknown
4/24-5/26/1993	Flooding, Heavy Rain, Snowfall	DR990	\$ 17,639	Unknown
1/19-2/2/1996	Storms, Flooding	DR1101	\$ 130,529	Unknown
1/6-16/1998	Ice Storms	DR1201	\$ 662,388	Unknown
7/17-8/17/1998	Severe Storms and Flooding	DR1228	\$2,146,484	Unknown
7/14-18/2000	Severe Storms and Flooding	DR1336	\$738,127.27	\$634,807.93
3/5-7/2001	Snowstorm	EM3167	\$ 138,333.08	\$3556.10
8/12-9/12/2004	Severe Storms and Flooding	DR1559	\$430,551.00	\$0.00
6/14-17/2008	Severe Storms and Flooding	DR1778	\$1,114,515.70	\$796,179.40
7/21-8/12/2008	Severe Storms and Flooding	DR1790	\$2,273,481.42	\$252,394.96
4/23-5/9/2011	Severe Storms and Flooding	DR1995	\$384,416.53	\$0.00
8/26-9/2/2011	Hurricane Irene	EM3338	\$ Unavailable	Unknown
8/27-9/2/2011	Tropical Storm Irene	DR4022	\$1,175,911.2	\$125,267.29
5/29/2012	Storm, Tornado & Flooding	DR4066	\$172,847.70	\$31,099.30
12/9-13/2014	Severe Winter Storm	DR4207	\$184,715.05	\$22,745.53
6/9/2015	Severe Storm/Flooding	DR4232	\$893,310.63	\$0.00
10/29-30/2017	Severe Storm/Flooding	DR4356		Unknown

Supplemental Information: Ripton application

Summary of damage at the town shed, sand/salt pile site through 2102

The site washed-out again in 2017, approximately 200 yards of sand lost.

FY 2014 Transportation Planning Study Request

Town of Ripton

June 2013

Peddlers Bridge Road (TH#2) armored water crossings

Summary: Armored water crossings were suggested by FEMA staff as a potential solution for the problem of storm water overflow on town roads, such as at two Peddlers Bridge Road culverts. The Peddler Bridge Road project did not meet FEMA Hazard Mitigation Program benefit:cost criteria for funding and construction. However, we hope to study the idea and produce a model for regional use.

Damage History: This chart shows the damage history at one culvert (B13) where the culvert over-tops, erodes the road, flows through the town shed and damages the site. It is proposed that a relief channel (armored water crossing) could accommodate overflow and prevent damage to the road and town shed site.

Year	Description of event	Cost of repairs	Loss of function	Construction date or last major repair	Useful life	Next point \$ necessary
2012	repair	\$26,001.50	2	Inlet only 2012	Inlet headwall repair and riprap	
2011	flood – road and shed damage, winter sand pile washed away	\$9,018.42	1	1954	5 years Headwall is gone. Culvert was good in 2003. In fall 2011 the bottom has holes and rust.	2016
2008	flood – road and shed damage	\$8,045.00	2	road repair		
2003	Hydraulic study completed – culvert in good condition. \$51,300 Structures grant awarded for a relief culvert. The Agency of Natural Resources did not permit the relief culvert; would only permit a bridge.					
2000	flood – road, bldg., equip. damage	\$4,198.00 (road and culvert only) \$385,000+ (fire station replacement)	3	road & headwall repair		
1976	flood	\$800.00				
1954	flood	\$5,803.00	3	culvert		

Town of Ripton
Planning Commission
P.O. Box 10
Ripton VT 05766

Alison Joseph
Ripton Selectboard Clerk
P. O. Box 10
Ripton VT 05766

July 11, 2018

Dear Alison,

The Town of Ripton is in great need of a new sand and salt shed. Ripton has relied for years on an open-air pile in a floodplain on the only town-owned parcel that is remotely suitable for a sand and salt pile. Having seen and, as Ripton residents helped pay for repairs to, the flood damage caused by runoff on the sand and salt pile from increasingly strong and frequent storms, I and the other members of the Ripton Planning Commission voted at our monthly meeting on July 10, 2018 to support the SFY 2019 Environmental Mitigation Grant Application by the Town of Ripton Selectboard to purchase land that is suitable for a shed for sand and salt storage. The reduction in the amount of salt and sand entering the Middlebury River annually will significantly improve water quality in the Middlebury River.

Sincerely yours,

Warren King, Chair
Ripton Planning Commission

CONTINUED SUPPORT CONFIRMED AT THE
DEC. 13, 2022 PLANNING COMMISSION
MEETING.

Hosking, Dick Jul 11, 2018 (2 days ago)

Via Email

I have seen the damage that occurs at the present location and District 5 endorses the moving of the Salt/Sand storage to a location and facility that will prevent impacts to the environment.

Richard Hosking

Vermont Agency of Transportation

District 5 Project Manager

189 Troy Avenue

Colchester, VT 05446

(P) 802-654-1722

(F) 802-655-6642



Alison Joseph Dickinson <ajdickinson@riptonvt.org>

Ripton Transportation Alternatives Grant Application

Alison Joseph Dickinson <ajdickinson@riptonvt.org>
To: "Sanderson, Brian" <Brian.Sanderson@vermont.gov>

Wed, Dec 14, 2022 at 12:55 PM

Hello Brian,

The estimated construction cost for the sand shed project we talked about during your recent visit to Ripton exceeds our available funds. We are applying for a Transportation Alternatives grant to help make up the shortfall. I hope you will support our application.

Thank you,

Alison

--
Alison Joseph Dickinson
Town Administrator, Clerk, Lister, Municipal Project Manager
Town of Ripton
802-388-2266
PO Box 10
Ripton VT 05766
ajdickinson@riptonvt.org

Emails to this address are public record, with the exception of attorney/client correspondence.

BRIAN SANDERSON, OUR DTA, OFFERED A LETTER OF SUPPORT,
but we were told it wasn't necessary.
—thank you