

# **ELECTRIC SCHOOL AND TRANSIT BUS PILOT PROGRAM PROPOSAL**

## **BARRE UNIFIED UNION SCHOOL DISTRICT**

**October 2, 2019**

### **Background Information:**

**School District:** BARRE UNIFIED UNION SCHOOL DISTRICT (BUUSD)

**School Bus Contractor:** STUDENT TRANSPORTATION OF AMERICA, INC (STA)

**Primary Point of Contact:** LISA PERREAULT, BUSINESS MANAGER

120 AYERS STREET

BARRE, VT 05641

**Phone:** 802 476-5011, ext. 1009

**Email:** lperrbsu@buusd.org

**Towns Served:** Barre City - Barre City Elementary & Middle School, Grades PREK-8  
Barre Town - Barre Town Middle and Elementary School, Grades PREK-8  
Spaulding High School/Central Vermont Career Center-Grades 9-12

**Enrollment:** 2,500

**Buses to be Replaced:**

	<b><u>BUS 1</u></b>	<b><u>BUS 2</u></b>
<b>Bus Make, Model, Age</b>	<b><u>International, CE200, 10 yrs.</u></b>	<b><u>Freightliner/Thomas C2, 11 yrs.</u></b>
<b>Bus Type/Class</b>	<b><u>Type C</u></b>	<b><u>Type C</u></b>
<b>Engine Model Year</b>	<b><u>2009</u></b>	<b><u>2009</u></b>
<b>Annual Miles Driven</b>	<b><u>25,000</u></b>	<b><u>31,000</u></b>
<b>Total Mileage</b>	<b><u>198,045</u></b>	<b><u>193,885</u></b>
<b>Annual Fuel Use</b>	<b><u>3,383</u></b>	<b><u>3,314</u></b>
<b>VIN</b>	<b><u>4DRBUSKPX9B670817</u></b>	<b><u>4UZABRDUX8CZ06128</u></b>

See attachments a-d.

STA is confirming that the 2 buses indicated above will be scrapped. These buses will continue to be in use until 2021 if BUUSD is not chosen for this pilot. STA is prepared to provide the scrappage certification within 90 days of receiving replacement buses. The buses scheduled for scrappage are at their useful end of life.

Optional features on the buses being replaced are cameras, retractable seatbelts, and GPS, these will also be required on the new electric buses as well.

**Existing Bus Service:**

	<b>Route 1</b>	<b>Route 2</b>	<b>Route 3</b>	<b>Additional Routes</b>
Total trips per day and approximate timing of trips (e.g. 1 morning and 1 afternoon, 2 morning and 2 afternoon, etc.)	BT7 2 morning 2 afternoon	BT3 2 morning 2 afternoon	BC1 2 morning 2 afternoon	BC5 2 morning 2 afternoon
Miles per trip	9	7	10	10
Trip duration	1.4	1.4	1.4	1.4
Miles per day	36	28	40	40
Bus type presently serving the route	C	C	C	C
Route maps included	Y	Y	Y	Y

Brief description of route, which includes information on whether there are paved or unpaved roads, maximum speed, hilly or flat terrain, and number of stops on the route. Feel free to provide additional relevant descriptions of the route.	Both Road Conditions, 25-50 mph Hill and flat Terrain 20 stops or more	Both Road Conditions, 25-50 mph Hill and flat Terrain 20 stops or more	Both Road Conditions, 25-50 mph Hill and flat Terrain 20 stops or more	Both Road Conditions, 25-50 mph Hill and flat Terrain 20 stops or more
Maximum number of students served by the route	77	77	77	77
Please indicate if there are any unique characteristics of this route that differentiate it from the overall population served	NONE	NONE	NONE	NONE

**See attachments e-z.**

The BUUSD has an annual special education extended year summer program as well as a summer school. We plan to utilize the electric buses for these routes as well. Additionally, we would also consider using the buses for athletics if the schedule permits. Mid-day we provide transportation to student to attend work-based learning opportunities, we may consider utilizing the electric buses when there are more than 5 students in a trip.

Average price of diesel is \$3.09

### **Infrastructure Planning:**

GMP conducted a site visit at the Barre Town Middle and Elementary School, 70 Websterville Road, Barre, where we plan to park the buses. GMP has submitted a letter in support and will continue to support Barre through Tier 3 incentives for the vehicle and charging infrastructure. STA will pay for the installation of the charging stations in the front of the School. The BUUSD will pay \$2,500 to move a power pole to provide easier access as well as an additional spotlight to allow for more lighting in the front of the building. This space is highly visible and centrally located to both Prek-8 buildings and routes. We chose this space because parking the buses at the STA terminal would deplete the charge (20 miles round trip to the Barre area). We believe this was not the most efficient use of these buses and the parking area at STA is not visible to our community.

See attachments aa-bb.

### **Purchases and Matching Funds:**

STA will provide matching funds equivalent to 2 new diesel buses, less trade-in for the scrapped buses. This equates to \$156,000.

STA will also pay for the installation of the charging stations, \$9,000 as well as additional equipment in buses such as cameras, GPS, and retractable seatbelts.

BUUSD will pay GMP to have the power pole moved to a more accessible spot to provide power to the stations and to add a light for security purposes. This funding will be available upon notice of award of the EMT funding. STA is a large company and is committed to the timeframe for deployment and funding of this project.

See attachment cc.

### **Deployment:**

It does not appear that any additional or new tools will be needed however, STA will acquire any tools necessary to maintain all components of the electric buses. Preferred manufacturers are Thomas, Bluebird, or Lion Bus.

Drivers and maintenance staff are excited and eager to learn about the daily operation of electric buses.

Please be assured we thoroughly understand the cost and are willing to bear any increased cost because we are committed to the environmental benefits.

The following employees will be responsible for the management/oversight of the buses:

- Participate in regular check-in calls with VEIC and other project partners-Stacy Emerson, STA Operations Manager and Lisa Perreault, BUUSD Business Manager
- Manage the installation of charging infrastructure-Stacy Emerson, Lisa Perreault, and Jamie Evans, BUUSD Facilities Manager
- Oversee development of bus specifications and participate in selection of vehicle manufacturer-Brian Hemenway, STA General Manager
- Support activities to accept vehicle delivery including inspection and registration-Stacy Emerson, and Brian Hemenway
- Understand and implement the managed charging plan as developed with VEIC-Stacy Emerson and Brian Hemenway
- Report to VEIC within 24 hours if a bus is taken out of service for any reason-Stacy Emerson

- Maintain records on all maintenance done on the buses-John Woodruff, STA Shop Foreman
- Collect electric billing and usage information to monitor and manage energy costs-Stacy Emerson
- Complete monthly reports (templates to be provided) to VEIC on all agreed upon data collection and ensure daily drivers' logs are maintained-Stacy Emerson

### **Commitment and Support:**

We have communicated this wonderful opportunity to stakeholders, community members and have been astounded by the overwhelming interest in this pilot.

Attached are the following letters:

Superintendent, John Pandolfo, on behalf of the new Barre Unified Union School District Board  
 Turk Graham, GMP Innovation Champion  
 Lucas Herring, Mayor of Barre City  
 Town of Barre Selectboard

Following is a message from Samantha (Sam) Mishkit, Science Dept. Chair at Spaulding High School, who already has ideas to integrate these electric buses into her lesson plans/instruction:

*"I We have a climate change unit at the end of the freshman curriculum. I will develop a lesson plan incorporating the electric bus.*

***Performance indicator 4.4:*** Students will be able to evaluate/refine a solution that reduces the impact of human activities on Earth's climate.

*Lesson Idea:* Students could analyze various factors (cost, millage, CO2 emissions, etc.) to determine if switching to electric buses would decrease the schools overall carbon footprint. Students could brainstorm the list of factors to consider, determine what data to collect, and then submit a conclusion of their findings,

*And/Or I could go more in depth into this with the honors/AP chemistry students:*

***Performance indicator 4.3:*** Reaction Stoichiometry

*Lesson Idea:* Students could do the same as above, but use stoichiometry to determine the actual amount of CO2 produced from electric vs gas powered vehicles. They, too, would need to consider all the factors that would go into determining whether or not electric vehicles would decrease the schools overall carbon footprint.

*To do either of these lesson plans I would need data from gas powered buses and the new electric vehicles."*

**See attachments dd-gg.**

**Additional Information:**

Beyond the economic factors, our school administrators and instructional staff see intangible value in electric buses, they are also educational.

The district continuously encourages students to compost, recycle, and take care of their environment. The buses represent another teachable moment in this area.

This is an exciting learning experience for Barre students. Most children have only read about this in books, we hope the children in this community might actually be able to say, "I rode to school in an electric bus!"

**Thank you for this opportunity and for the work you do for the residents in Vermont!**



Department of Motor Vehicles  
Agency of Transportation

## Temporary Registration

120 State Street  
Montpelier, Vermont 05603-0001  
802.828.2000  
[dmv.vermont.gov](http://dmv.vermont.gov)

This is a temporary registration and must be kept in your vehicle until you receive your permanent registration in the mail. If you are renewing your vehicle, your old registration must be kept with this temporary registration. You may use this temporary registration to have your vehicle inspected.

### Vehicle Information

Plate(s)	Model Year	Make	Model	VIN	New Exp	Transaction Date	Temporary Registration Expires	Fee
FRA861	08	THOM	BUS	4UZABRDUX8CZ06128	08/2020	2019-09-27	2019-10-07	\$ 76.00
Total Paid								\$ 76.00

### Payment Information

<b>Credit Card Type:</b>	MasterCard
<b>Last four of Credit Card:</b>	4836
<b>Cardholder:</b>	Student Transportation Brian Hemenway
<b>Confirmation Number:</b>	1569604702924
<b>Date of Transaction:</b>	2019-09-27 13:18:22
Your credit card statement will show a charge from "VT DMV" for this payment.	

Temporary registration expires 10 days from the date of issue. Any alterations will void the temporary registration. Temporary registration is valid for inspection, if needed. Stickers will be mailed to you and should arrive in 4 - 6 business days.

**If renewing multiple vehicles, print a copy of this receipt for each vehicle!**

Contact Us - <http://dmv.vermont.gov/contact>

Visit our Facebook page - <https://www.facebook.com/VermontDMV>



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**Temporary Registration**

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**Vehicle Information**

Plate(s)	Model Year	Make	Model	VIN	New Exp	Transaction Date	Temporary Registration Expires	Fee
AAP149	09	INTL	IC	4DRBUSKPX9B670817	---	2019-09-27	2019-10-07	\$ 0.00
Total Paid								\$ 0.00

**Payment Information**

Confirmation Number:	1569607546585
Date of Transaction:	2019-09-27 14:05:46

Temporary registration expires 10 days from the date of issue. Any alterations will void the temporary registration. Temporary registration is valid for inspection, if needed. Stickers will be mailed to you and should arrive in 4 - 6 business days.

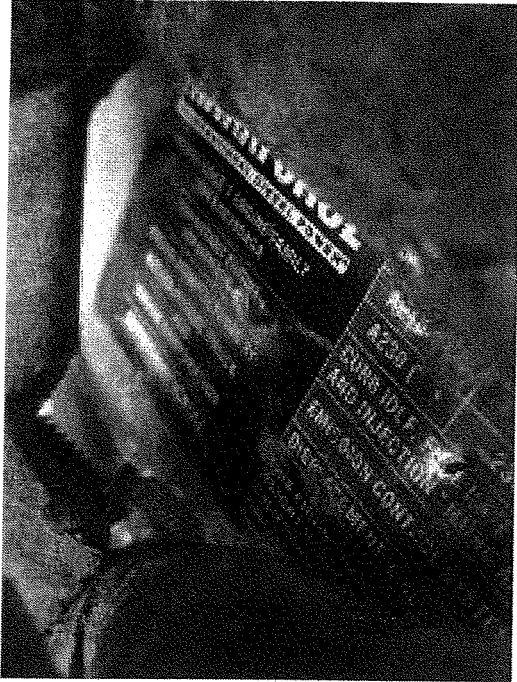
**If renewing multiple vehicles, print a copy of this receipt for each vehicle!**

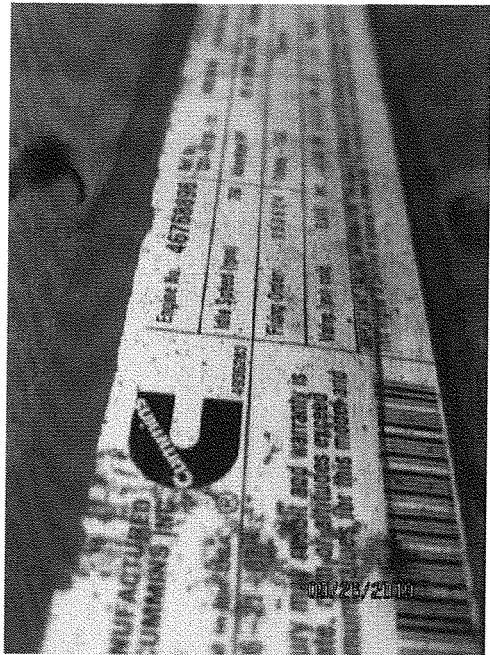
Contact Us - <http://dmv.vermont.gov/contact>

Visit our Facebook page - <https://www.facebook.com/VermontDMV>



C





d

# BCEMS BUS ROUTES: Grades 5-8

## 2019/2020 School Year

ng Am BC Bus #1 B<sup>run</sup> \*Times are not exact\* can vary 5-10 minutes

	BCEMS	2:20
05	Hill St.	2:38
06	Hill/Hilltop	2:39
08	35 Liberty St.	2:40
09	15/25 Orange St.	2:41
09	Orange/Freedom Way	2:42
10	78 Orange St.	2:43
10	97 Orange St.	2:43
12	262 Washington St.	2:45
13	Washington/Phelps	2:46
18	342 Washington St.	2:50
20	69 Hill St.	2:52
21	Ayers/Kirk	2:53
22	87 Ayers St.	2:53
23	Spaulding HS	2:54
24	24 Circle St.	2:55
25	Batchelder/A	2:56
25	Batchelder/C	2:56
26	Lewis/Paddock	2:57
28	Nichols/Boyce	2:58
	Hale/Division	2:59
	Quarry/Hale	2:59
32	S.Main/Orchard St.	3:00
33	Pond/Parkside PM 1st Bus Stop	2:32
35	BCEMS	3:05

	BCEMS	2:20
58	Dollar/Gemal	2:34
01	Franklin/Tremont	2:38
01	Franklin/Beacon	2:39
02	Burns/Maplewood	2:40
03	Sheridan/Wellington	2:41
05	51 Merchant St.	2:42
06	174 Merchant St.	2:43
09	Warren/Long	2:44
10	Plain/Seminary St.	2:46
11	Maple/Harrington St.	2:48
12	91 Maple Ave	2:50
13	Buzzie's Garage	2:51
15	56 Farwell St.	2:54
20	30 Farwell/Newton	2:55
20	Farwell/Elmwood	2:55
	Brook/Pleasant	2:55
	BCEMS	3:10

	BCEMS	2:20
6:55	155 Washington St.	2:35
6:56	175 Washington St.	2:36
6:57	Washington/Trow	2:37
6:59	Waterman/Garden	2:39
7:00	Garden/Nelson	2:40
7:01	Washington/Patterson	2:41
7:01	Washington/Charles	2:42
7:02	Hill/Camp	2:43
7:03	Hill/Nelson	2:44
7:04	205 Hill	2:45
7:06	Woodland/Hill	2:47
7:08	Woodland/Clifton	2:48
7:09	Clifton/Lague	2:49
7:10	88 Delmont	2:50
7:11	110 Nelson	2:52
7:13	Camp/Berkley	2:54
7:14	Veeder St.	2:56
7:15	Onward/Snow	2:58
7:16	15 Cassie	2:59
7:18	Cassie/Onward	3:00
7:20	Onward/Cumier	3:02
7:21	80 Cumier	3:03
7:22	Cumier/Marcel	3:04
7:23	Cumier/Delmont	3:05
7:24	Delmont/Valliere	3:06
7:26	Washington/Highland	3:08
7:29	Quality Inn PM 1st Bus Stop	2:33
7:31	BCEMS	3:12

	BCEMS	2:20
7:05	Morrison/Prospect	2:42
7:07	Barre Gardens	2:44
7:07	Prospect/Bailey	2:45
7:09	50 Highgate	2:47
7:10	Highgate Office	2:49
7:13	Prospect/Clark	2:52
7:17	Perry/Queen	2:57
7:21	Parkside/Pouliot PM 1st Bus Stop	2:34
7:22	20 Crescent	2:35
7:23	Sunrise/Knoll	2:36
7:24	28 Knoll	2:37
7:25	20 Downies	2:38
7:28	BCEMS	3:10

	BCEMS	2:20
7:05	Green Acres	2:36
7:05	50 Allen St.	2:37
7:09	Jefferson/Elm	2:41
7:10	Eastern/Park	2:42
7:11	Park Academy	2:43
7:13	East/Cliff	2:44
7:13	East/Eastern	2:44
7:14	2 Eastern	2:45
7:17	Elm/Wintermeadow	2:50
7:20	Tremont/Elm	2:53
7:21	Tremont/Hall	2:54
7:23	Tremont/East	2:55
7:24	Tremont/Grandview	2:55
7:25	Tremont/Camp	2:56
7:30	BCEMS	3:10

	BCEMS	2:20
7:05	Summer/Pearl	2:35
7:06	Summer/West	2:35
7:08	Summer/Cottage	2:36
7:10	419 N.Main St.	2:37
7:11	Beckley/Oliver	2:40
7:12	Beckley/Hunter	2:40
7:13	8 Cabot	2:41
7:14	Hillside/Hunter	2:42
7:16	N.Main/2nd	2:43
7:18	N.Main/6th	2:44
7:20	N.Main/Richardson	2:45
7:22	N.Main/Garnite Museum	2:46
7:24	N.Main/Wiley	2:47
7:25	Dentes Mkt	2:50
7:26	338 N.Main St.	2:51
7:31	BCEMS	3:07

	BCEMS	2:20
7:05	Prospect/Merchants Row	2:35
7:07	Burnham/Granite	2:36
7:08	114 River St.	2:37
7:09	Center/Howard	2:39
7:10	Ward Five School	2:41
7:11	Railroad/Cambria	2:43
7:12	Berlin/John	2:44
7:13	Berlin/Dagmont	2:46
7:15	40 Country Way	2:48
7:17	28 Daniel Dr.	2:49
7:19	Prospect/Bassett	2:51
7:20	Prospect/Essex	2:52
7:21	Prospect/Lincoln	2:53
7:21	Prospect/Stowe	2:55
7:23	50 Prospect St. (directly after bridge)	2:56
7:30	BCEMS	3:08

	BCEMS	2:20
7:00	Prospect/Clark	2:39
7:01	Prospect/Coolidge	2:40
7:03	12 Palmisano	2:42
7:03	27 Palmisano	2:42
7:04	47 Palmisano	2:43
7:05	56 Westwood	2:44
7:05	36 Westwood	2:45
7:06	20 Westwood	2:46
7:07	Country Way	2:47
7:09	106 Railroad St.	2:49
7:10	76 Railroad St.	2:50
7:12	Berlin/Smith	2:52
7:13	Berlin/Scampini	2:53
7:15	Beckley/Pleasant	2:56
7:17	7 & 8 Third St.	2:58
7:19	Seminary/N.Main	3:01
7:20	Seminary/Shurtleff	3:03
7:21	Seminary/Laurel	3:04
7:25	S.Main/Elmore PM 1st Bus Stop	2:34
7:30	BCEMS	3:10

Speed limits  
vary 25-50 mph

Variety of  
Roads Hills  
Conditions

PC1 A - 10 miles

Am B - 10 miles - 2 hrs

Pm A 10 miles

B - 10 miles - 2.5 hrs

40 miles 4.5 hrs

# BCEMS BUS ROUTES: Grades Pre-K - 4th

## 2019/2020 School Year

pm  
Am & Bus #1 A Run \*Times are not exact\* can vary 5-10 minutes

	BCEMS	3:10
8:05	1 Hill St.	3:25
8:06	Hill/Hilltop	3:26
8:07	35 Liberty St.	3:27
8:08	15/25 Orange St.	3:28
8:08	Orange/Freedom Way	3:29
8:09	87 Orange St.	3:30
8:09	97 Orange St.	3:31
8:10	262 Washington St.	3:38
8:10	Washington/Phelps	3:39
3:15	69 Hill St.	3:43
3:16	Ayers/Kirk	3:44
3:17	87 Ayers St.	3:45
3:17	Spaulding HS	3:47
3:18	24 Circle St.	3:47
3:19	Batchelder/A	3:48
3:19	Batchelder/C	3:49
3:21	8 Cedar St.	3:49
3:23	Lewis/Paddock	3:52
3:24	Nichols/Boyce	3:56
	Hale/Division	3:57
	Hale/Quarry	3:58
27	S Main Orchard	3:33
27	Pond/Parkside PM 1st Bus Stop	3:21
28	BCEMS	

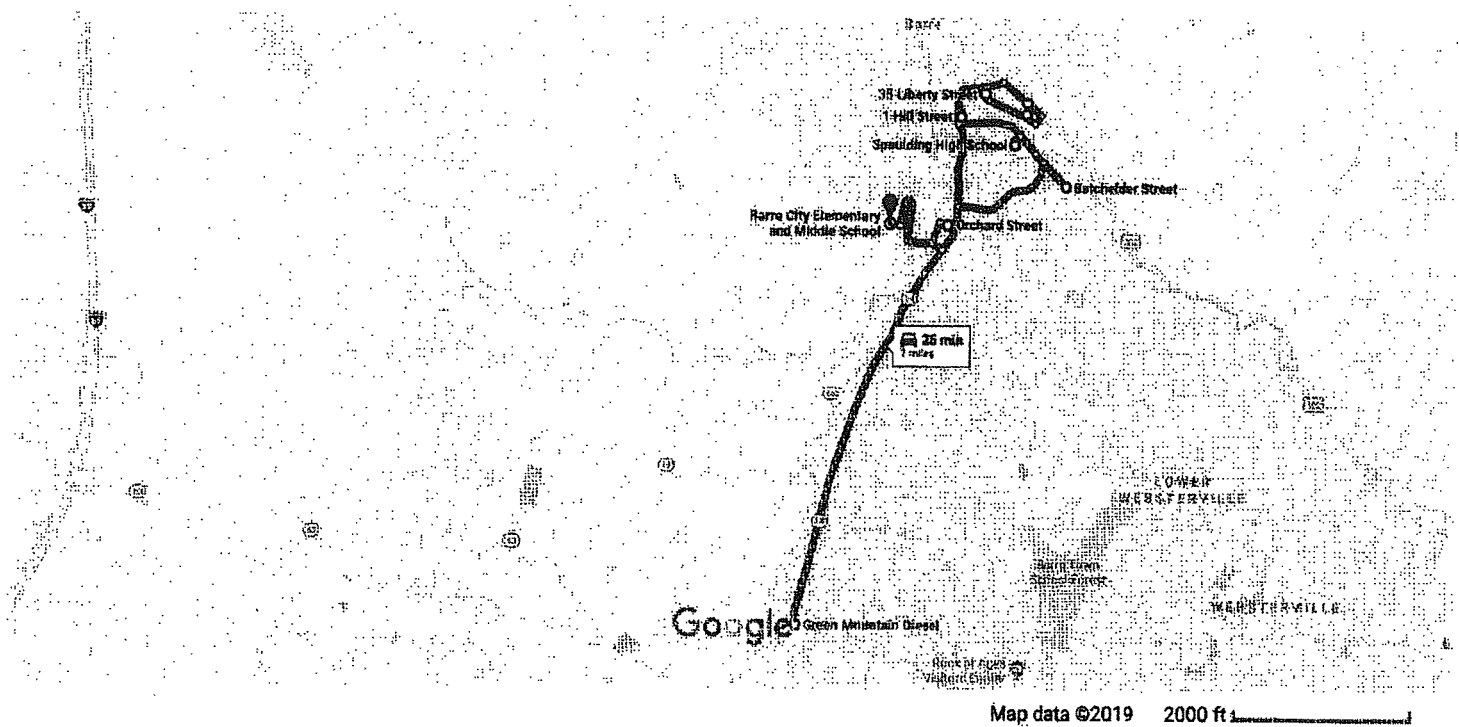
	BCEMS	3:10
02	Dollar General	3:26
05	Franklin/Tremont	3:29
06	Franklin/Beacon	3:30
07	Burns/Maplewood	3:31
08	Sheridan/Wellington	3:32
10	51 Merchants St.	3:34
12	174 Merchants St.	3:37
14	Warren/Long	3:39
15	Plain/Seminary	3:40
16	91 Maple Ave.	3:42
17	Farwell/Brook St.	3:43
8	Buzzi's Garage	3:44
10	Brook/Pleasant St.	3:46
	BCEMS	

	BCEMS	3:10
7:50	155 Washington St.	3:26
7:51	175 Washington St.	3:27
7:51	Washington/Trow	3:28
7:52	Waterman/Garden	3:29
7:52	Garden/Nelson	3:30
7:53	Washington/Patterson	3:31
	Washington/Charles	3:32
7:54	Hill/Camp	3:33
7:55	Hill/Nelson	3:34
7:56	205 Hill	3:35
7:56	Woodland/Hill	3:36
7:57	Clifton/Woodland	3:37
7:58	Clifton/Lague	3:37
7:59	Delmont/Clifton	3:38
7:59	70 Delmont	3:39
8:00	100 Nelson	3:40
8:01	Camp/Berkley	3:41
8:06	1 Veeder St.	3:42
8:06	Onward/Snow	3:43
8:08	15 Cassie	3:45
8:09	Onward/Cassie	3:46
8:12	Onward/Currier	3:47
8:13	Currier/Marcel	3:48
8:15	80 Currier	3:49
8:16	Currier/Delmont	3:51
8:17	Delmont/Valliere	3:52
8:22	Washington/Highland	3:55
8:26	Quality Inn PM 1st Bus Stop	3:22
8:33	BCEMS	

	BCEMS	3:10
8:08	169 Morrison	3:30
8:10	Barre Gardens	3:31
8:11	Prospect/Bailey	3:32
8:13	Highgate Office	3:34
8:16	Prospect/Clark	3:37
8:20	50 Prospect St	3:40
	(directly after bridge)	3:52
8:20	Perry/Queen	3:20
8:24	20 Crescent St.	3:25
8:25	Sunrise/Knoll	3:24
8:26	28 Knoll Dr.	3:23
8:27	20 Downes St.	3:22
8:30	BCEMS	

	BCEMS	3:10
8:06	Green Acres	3:20
8:08	50 Allen St.	3:22
8:10	Jefferson/Elm	3:25
8:11	Eastern/Park	3:27
8:13	Park/Academy	3:30
8:14	East/Cliff	3:31
8:15	East/Eastern	3:32
8:15	2 Eastern	3:33
8:17	Elm/Wintermeadow	3:35
8:18	Tremont/Elm	3:37
8:19	Tremont/Hall	3:38
8:20	Tremont/East	3:39
8:22	Tremont/Grandview	3:40
8:23	Tremont/Camp	3:41
8:30	BCEMS	
AM	BC Bus #8 Pre-K - 4	PM
8:03	Summer/Pearl	3:32
8:04	Summer/West	3:33
8:06	Summer/Cottage	3:35
8:08	419 N. Main St.	3:37
8:10	Beckley/Oliver	3:40
8:11	Beckley/Hunter	3:41
8:12	Beckley/Cabot	3:42
8:13	Hillside/Hunter	3:43
8:14	N Main/2nd	3:44
8:16	N Main/6th	3:45
8:17	N Main/Richardson Rd	3:46
8:18	N Main/Granite Museum	3:48
8:20	N Main/Wiley	3:50
8:22	Dentes Mkt	3:53
8:24	338 N Main St	3:54
8:30	BCEMS	

	BCEMS	3:10
8:00	Prospect/Merchants Row	3:25
8:01	Burnham/Granite	3:27
8:02	114 River St.	3:28
8:03	Center/Howard	3:30
8:05	Ward Five School	3:33
8:06	Railroad/Cambria	3:34
8:08	Berlin/John	3:36
8:09	Berlin/Dagmont	3:38
8:11	40 Country Way	3:40
8:12	28 Daniel Drive	3:42
8:13	82 Country Way	3:43
8:15	Prospect/Essex	3:45
8:16	Prospect/Lincoln	3:45
8:17	Prospect/Stowe	3:46
8:28	BCEMS	
AM	BC Bus #9 Pre-K - 4	PM
7:55	Prospect/Clark	3:27
7:57	Prospect/Coolidge	3:30
7:59	12 Palmisano	3:31
7:59	27 Palmisano	3:32
8:00	47 Palmisano	3:33
8:01	58 Westwood	3:35
8:02	38 Westwood	3:36
8:03	20 Westwood	3:37
8:04	Country Way	3:38
8:05	106 Railroad St.	3:41
8:09	76 Railroad St.	3:42
8:11	Berlin/Smith	3:44
8:12	Berlin/Scampini	3:45
8:13	Beckley/Pleasant	3:47
8:15	18 & 7 Third St	3:48
8:16	Seminary/N Main	3:50
8:17	Seminary/Shurtliff	3:51
8:19	Seminary/N Main	3:52
	Seminary/Laurel	
8:23	S. Main/Elmore	3:24
	PM 1st BUS Stop	
	BCEMS	



## Green Mountain Diesel

894 S Barre Rd, Barre, VT 05641

- ↑ 1. Head north on S Barre Rd toward Jackson St  
1.6 mi
- ↑ 2. Continue onto S Main St  
0.1 mi
- ↩ 3. Turn left onto Parkside Terrace  
Destination will be on the right  
0.5 mi

5 min (2.2 mi)

## Barre City Elementary and Middle School

50 Parkside Terrace, Barre, VT 05641

- ↑ 4. Head north on Parkside Terrace toward Barre Bike Path  
0.5 mi
- ↩ 5. Turn left onto S Main St  
0.6 mi
- ↪ 6. Slight right onto Hill St  
0.3 mi

- h
7. Turn right onto Liberty St  
Destination will be on the right

151 ft

4 min (1.3 mi)

## 35 Liberty St

Barre, VT 05641

8. Head north on Liberty St toward Webster St

151 ft

9. Turn left onto Hill St  
Destination will be on the left

0.2 mi

1 min (0.3 mi)

## 1 Hill St

Barre, VT 05641

10. Head north on Hill St toward French St

0.2 mi

11. Turn right onto Liberty St

299 ft

12. Turn left onto Orange St  
Destination will be on the left

0.2 mi

2 min (0.5 mi)

## 78 Orange St

Barre, VT 05641

13. Head southeast on Orange St toward W  
Patterson St

295 ft

14. Turn left onto W Patterson St

246 ft

15. Turn left at the 1st cross street onto Washington  
St

449 ft

51 s (0.2 mi)

## Washington St

Barre, VT 05641

- ↑ 16. Head northwest on Washington St toward Charles St  
0.1 mi
- ↩ 17. Turn left onto Hill St  
0.3 mi
- ↩ 18. Turn left onto Ayers St  
0.3 mi
- ↪ 19. Turn right  
197 ft
- ↩ 20. Turn left  
75 ft

4 min (0.3 mi)

## Spaulding High School

155 Ayers St, Barre, VT 05641

- ↑ 21. Head northwest  
75 ft
- ↪ 22. Turn right toward Ayers St  
197 ft
- ↪ 23. Turn right onto Ayers St  
0.1 mi
- ↑ 24. Continue onto Batchelder St  
0.2 mi

2 min (0.4 mi)

## Batchelder St

Vermont 05641

- ↑ 25. Head northwest on Batchelder St toward Lewis St  
0.1 mi
- ↩ 26. Turn left onto Circle St  
0.5 mi
- ↩ 27. Turn left onto S Main St  
489 ft
- ↪ 28. Turn right onto Orchard St  
187 ft

3 min (0.6 mi)

## Orchard St

Barre, VT 05641

- ↑ 29. Head west on Orchard St toward Pond St 197 ft
- ↩ 30. Turn left onto Pond St 0.1 mi
- ↪ 31. Turn right onto Parkside Terrace  
Destination will be on the right 0.4 mi

2 min (0.6 mi)

## Barre City Elementary and Middle School

50 Parkside Terrace, Barre, VT 05641

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



# BCEMS BUS ROUTES: Grades 5-8

## 2019/2020 School Year

\*Times are not exact\* can vary 5-10 minutes

	BCEMS	2:20
15	1 Hill St.	2:38
16	Hill/Hilltop	2:39
18	35 Liberty St.	2:40
19	15/25 Orange St.	2:41
19	Orange/Freedom Way	2:42
0	78 Orange St.	2:43
0	97 Orange St.	2:43
2	262 Washington St.	2:45
3	Washington/Phelps	2:46
8	342 Washington St.	2:50
10	69 Hill St.	2:52
11	Ayers/Kirk	2:53
12	87 Ayers St.	2:53
13	Spaulding HS	2:54
14	24 Circle St.	2:55
15	Batchelder/A	2:56
15	Batchelder/C	2:56
16	Lewis/Paddock	2:57
18	Nichols/Boyce	2:58
	Hale/Division	2:59
	Quarry/Hale	2:59
2	S.Main/Orchard St.	3:00
3	Pond/Parkside PM 1st Bus Stop	2:32
5	BCEMS	3:05

	BCEMS	2:20
8	Dollar/Gemal	2:34
11	Franklin/Tremont	2:38
11	Franklin/Beacon	2:39
2	Burns/Maplewood	2:40
3	Sheridan/Wellington	2:41
5	51 Merchant St.	2:42
6	174 Merchant St.	2:43
9	Warren/Long	2:44
0	Plain/Seminary St.	2:46
1	Maple/Harrington St.	2:48
2	91 Maple Ave	2:50
3	Buzzie's Garage	2:51
5	56 Farwell St	2:54
0	30 Farwell/Newton	2:55
0	Farwell/Elmwood	2:55
	Brook/Pleasant	2:55
	BCEMS	3:10

	BCEMS	2:20
6:55	155 Washington St.	2:35
6:56	175 Washington St.	2:36
6:57	Washington/Trow	2:37
6:59	Waterman/Garden	2:39
7:00	Garden/Nelson	2:40
7:01	Washington/Patterson	2:41
7:01	Washington/Charles	2:42
7:02	Hill/Camp	2:43
7:03	Hill/Nelson	2:44
7:04	205 Hill	2:45
7:06	Woodland/Hill	2:47
7:08	Woodland/Clifton	2:48
7:09	Clifton/Lague	2:49
7:10	88 Delmont	2:50
7:11	110 Nelson	2:52
7:13	Camp/Berkley	2:54
7:14	1 Veeder St.	2:56
7:15	Onward/Snow	2:58
7:16	15 Cassie	2:59
7:18	Cassie/Onward	3:00
7:20	Onward/Currier	3:02
7:21	80 Currier	3:03
7:22	Currier/Marcel	3:04
7:23	Currier/Delmont	3:05
7:24	Delmont/Valliere	3:06
7:26	Washington/Highland	3:08
7:29	Quality Inn PM 1st Bus Stop	2:33
7:31	BCEMS	3:12

	BCEMS	2:20
7:05	Morrison/Prospect	2:42
7:07	Barre Gardens	2:44
7:07	Prospect/Bailey	2:45
7:09	50 Highgate	2:47
7:10	Highgate Office	2:49
7:13	Prospect/Clark	2:52
7:17	Perry/Queen	2:57
7:21	Parkside/Pouliot PM 1st Bus Stop	2:34
7:22	20 Crescent	2:35
7:23	Sunrise/Knoll	2:36
7:24	28 Knoll	2:37
7:25	20 Downes	2:38
7:28	BCEMS	3:10

	BCEMS	2:20
7:05	Green Acres	2:36
7:05	50 Allen St.	2:37
7:09	Jefferson/Elm	2:41
7:10	Eastern/Park	2:42
7:11	Park Academy	2:43
7:13	East/Cliff	2:44
7:13	East/Eastern	2:44
7:14	2 Eastern	2:45
7:17	Elm/Wintermeadow	2:50
7:20	Tremont/Elm	2:53
7:21	Tremont/Hall	2:54
7:23	Tremont/East	2:55
7:24	Tremont/Grandview	2:55
7:25	Tremont/Camp	2:56
7:30	BCEMS	3:10

	BCEMS	2:20
7:05	Summer/Pearl	2:35
7:06	Summer/West	2:35
7:08	Summer/Cottage	2:36
7:10	419 N.Main St.	2:37
7:11	Beckley/Oliver	2:40
7:12	Beckley/Hunter	2:40
7:13	8 Cabot	2:41
7:14	Hillside/Hunter	2:42
7:16	N.Main/2nd	2:43
7:18	N.Main/6th	2:44
7:20	N.Main/Richardson	2:45
7:22	N.Main/Garnite Museum	2:46
7:24	N.Main/Wiley	2:47
7:25	Dentas Mkt	2:50
7:26	338 N.Main St.	2:51
7:31	BCEMS	3:07

	BCEMS	2:20
7:05	Prospect/Merchants Row	2:35
7:07	Burnham/Granite	2:36
7:08	114 River St.	2:37
7:09	Center/Howard	2:39
7:10	Ward Five School	2:41
7:11	Railroad/Cambria	2:43
7:12	Berlin/John	2:44
7:13	Berlin/Dagmont	2:46
7:15	40 Country Way	2:48
7:17	28 Daniel Dr.	2:49
7:19	Prospect/Bassett	2:51
7:20	Prospect/Essex	2:52
7:21	Prospect/Lincoln	2:53
7:21	Prospect/Stowe	2:55
7:23	50 Prospect St. (directly after bridge)	2:56
7:30	BCEMS	3:08

	BCEMS	2:20
7:00	Prospect/Clark	2:39
7:01	Prospect/Coolidge	2:40
7:03	12 Palmisano	2:42
7:03	27 Palmisano	2:42
7:04	47 Palmisano	2:43
7:05	56 Westwood	2:44
7:05	36 Westwood	2:45
7:06	20 Westwood	2:46
7:07	Country Way	2:47
7:09	106 Railroad St.	2:49
7:10	76 Railroad St.	2:50
7:12	Berlin/Smith	2:52
7:13	Berlin/Scampini	2:53
7:15	Beckley/Pleasant	2:56
7:17	7 & 8 Third St	2:58
7:19	Seminary/N.Main	3:01
7:20	Seminary/Shurtleff	3:03
7:21	Seminary/Laurel	3:04
7:25	S.Main/Elmore PM 1st Bus Stop	2:34
7:30	BCEMS	3:10

Speed limits  
vary 25-50mph  
Variety of  
Roads, hills &  
Condition

BC5-A 10 miles -

AM B 10 miles - 2 hrs

PM A 10 miles -

B 10 miles - 2.5 hrs

40 miles 4.5 hrs

m - A Run  
B Run

bc5

# BCEMS BUS ROUTES: Grades Pre-K - 4th

## 2019/2020 School Year

\*Times are not exact\* can vary 5-10 minutes

	BCEMS	3:10
05	1 Hill St.	3:25
06	Hill/Hilltop	3:26
07	35 Liberty St.	3:27
08	15/25 Orange St.	3:28
08	Orange/Freedom Way	3:29
09	87 Orange St.	3:30
09	97 Orange St.	3:31
10	262 Washington St.	3:38
10	Washington/Phelps	3:39
15	69 Hill St.	3:43
16	Ayers/Kirk	3:44
17	87 Ayers St.	3:45
17	Spaulding HS	3:47
18	24 Circle St.	3:47
19	Batchelder/A.	3:48
19	Batchelder/C	3:49
21	8 Cedar St.	3:49
23	Lewis/Paddock	3:52
24	Nichols/Boys	3:56
	Hale/Division	3:57
	Hale/Quarry	3:58
27	S Main Orchard	3:33
27	Pond/Parkside PM 1st Bus Stop	3:21
28	BCEMS	

	BCEMS	3:10
12	Dollar General	3:26
15	Franklin/Tremont	3:29
16	Franklin/Beacon	3:30
17	Burns/Maplewood	3:31
18	Sheridan/Wellington	3:32
20	51 Merchants St.	3:34
22	174 Merchants St.	3:37
24	Warren/Long	3:39
25	Plain/Seminary	3:40
26	91 Maple Ave.	3:42
27	Farwell/Brook St.	3:43
28	Buzzi's Garage	3:44
29	Brook/Pleasant St.	3:46
	BCEMS	

	BCEMS	3:10
7:50	155 Washington St.	3:26
7:51	175 Washington St.	3:27
7:51	Washington/Trow	3:28
7:52	Waterman/Garden	3:29
7:52	Garden/Nelson	3:30
7:53	Washington/Patterson	3:31
	Washington/Charles	3:32
7:54	Hill/Camp	3:33
7:55	Hill/Nelson	3:34
7:56	205 Hill	3:35
7:56	Woodland/Hill	3:36
7:57	Clifton/Woodland	3:37
7:58	Clifton/Lague	3:37
7:59	Delmont/Clifton	3:38
7:59	70 Delmont	3:39
8:00	100 Nelson	3:40
8:01	Camp/Berkley	3:41
8:05	1 Veeder St.	3:42
8:06	Onward/Snow	3:43
8:08	15 Cassie	3:45
8:09	Onward/Cassie	3:46
8:12	Onward/Currier	3:47
8:13	Currier/Marcel	3:48
8:15	80 Currier	3:49
8:16	Currier/Delmont	3:51
8:17	Delmont/Valliere	3:52
8:22	Washington/Highland	3:55
8:26	Quality Inn PM 1st Bus Stop	3:22
8:33	BCEMS	

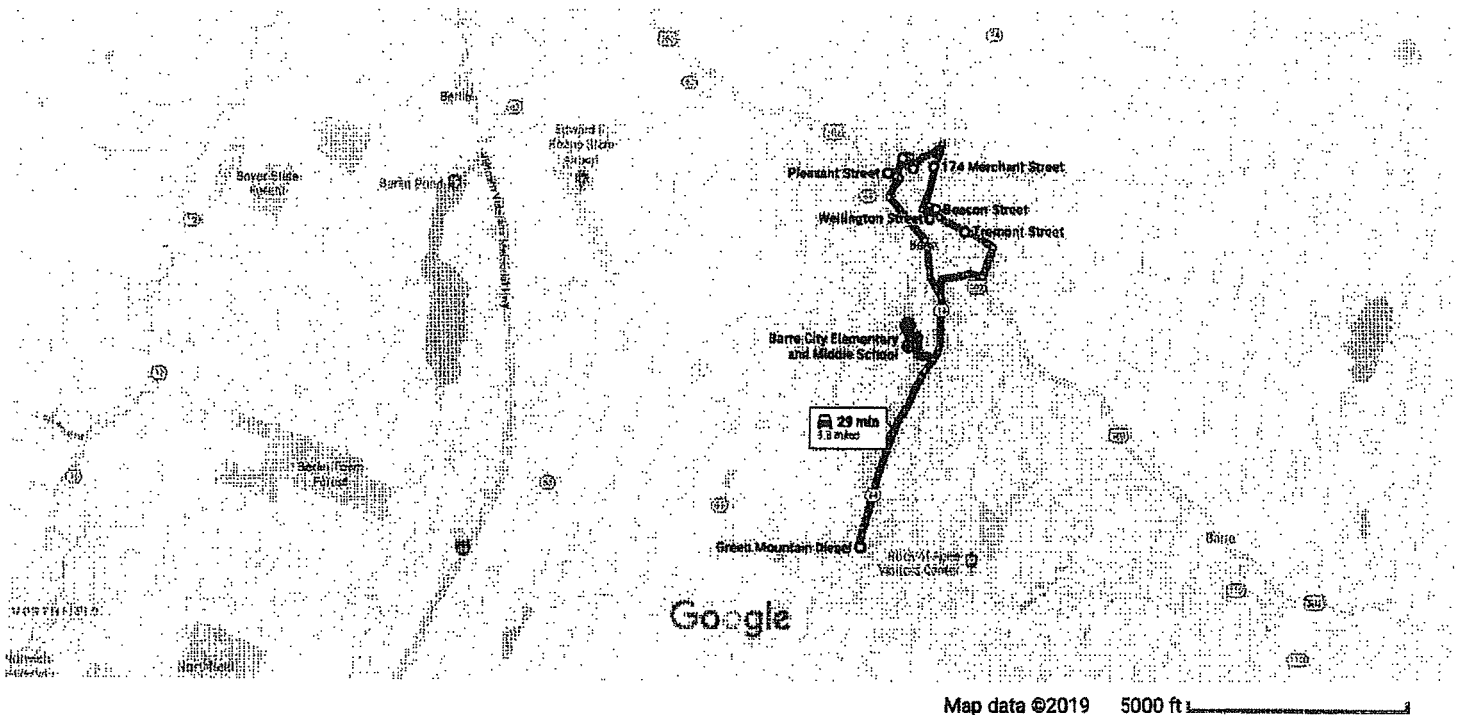
	BCEMS	3:10
8:08	169 Morrison	3:30
8:10	Barre Gardens	3:31
8:11	Prospect/Bailey	3:32
8:13	Highgate Office	3:34
8:16	Prospect/Clark	3:37
8:20	50 Prospect St.	3:40
	(directly after bridge)	3:52
8:20	Perry/Queen	3:20
8:24	20 Crescent St.	3:25
8:25	Sunrise/Knoll	3:24
8:26	28 Knoll Dr.	3:23
8:27	20 Downes St.	3:22
8:30	BCEMS	

	BCEMS	3:10
8:06	Green Acres	3:20
8:08	50 Allen St.	3:22
8:10	Jefferson/Elm	3:25
8:11	Eastern/Park	3:27
8:13	Park/Academy	3:30
8:14	East/Cliff	3:31
8:15	East/Eastern	3:32
8:15	2 Eastern	3:33
8:17	Elm/Wintermeadow	3:35
8:18	Tremont/Elm	3:37
8:19	Tremont/Hall	3:38
8:20	Tremont/East	3:39
8:22	Tremont/Grandview	3:40
8:23	Tremont/Camp	3:41
8:30	BCEMS	
AM	BC Bus #8 Pre-K - 4	PM
8:03	Summer/Pearl	3:32
8:04	Summer/West	3:33
8:06	Summer/Cottage	3:35
8:08	419 N. Main St.	3:37
8:10	Beckley/Oliver	3:40
8:11	Beckley/Hunter	3:41
8:12	Beckley/Cabot	3:42
8:13	Hillside/Hunter	3:43
8:14	N Main/2nd	3:44
8:16	N Main/6th	3:45
8:17	N Main/Richardson Rd	3:46
8:18	N Main/Granite Museum	3:48
8:20	N Main/Wiley	3:50
8:22	Dentes Mkt	3:53
8:24	338 N Main St	3:54
8:30	BCEMS	

	BCEMS	3:10
8:00	Prospect/Merchants Row	3:25
8:01	Burnham/Granite	3:27
8:02	114 River St.	3:28
8:03	Center/Howard	3:30
8:05	Ward Five School	3:33
8:06	Railroad/Cambria	3:34
8:08	Berlin/John	3:36
8:09	Berlin/Dagmont	3:38
8:11	40 Country Way	3:40
8:12	28 Daniel Drive	3:42
8:13	82 Country Way	3:43
8:15	Prospect/Essex	3:45
8:16	Prospect/Lincoln	3:45
8:17	Prospect/Stowe	3:46
8:28	BCEMS	
AM	BC Bus #8 Pre-K - 4	PM
7:55	Prospect/Clark	3:27
7:57	Prospect/Coolidge	3:30
7:59	12 Palmisano	3:31
7:59	27 Palmisano	3:32
8:00	47 Palmisano	3:33
8:01	56 Westwood	3:35
8:02	36 Westwood	3:36
8:03	20 Westwood	3:37
8:04	Country Way	3:38
8:05	106 Railroad St.	3:41
8:09	76 Railroad St.	3:42
8:11	Berlin/Smith	3:44
8:12	Berlin/Scampini	3:45
8:13	Beckley/Pleasant	3:47
8:15	18 & 7 Third St	3:48
8:16	Seminary/N Main	3:50
8:17	Seminary/Shurtleff	3:51
8:19	Seminary/N Main	3:52
	Seminary/Laurel	
8:23	S Main/Elmore	3:24
	PM 1st BUS Stop	
	BCEMS	

m- ARUN  
BRUN

25



## Green Mountain Diesel

894 S Barre Rd, Barre, VT 05641

- ↑ 1. Head north on S Barre Rd toward Jackson St  
1.6 mi
- ↑ 2. Continue onto S Main St  
0.1 mi
- ↩ 3. Turn left onto Parkside Terrace  
Destination will be on the right  
0.5 mi

5 min (2.2 mi)

## Barre City Elementary and Middle School

50 Parkside Terrace, Barre, VT 05641

- ↑ 4. Head north on Parkside Terrace toward Barre Bike Path  
0.5 mi
- ↩ 5. Turn left onto S Main St  
0.6 mi
- ↗ 6. Slight right onto Hill St  
0.5 mi

↩ 7. Turn left onto Camp St

0.3 mi

↩ 8. Turn left onto Tremont St

0.3 mi

7 min (2.1 mi)

## Tremont St

Barre, VT 05641

↑ 9. Head west on Tremont St toward East St

0.3 mi

➡ 10. Turn right onto Franklin St

256 ft

↩ 11. Turn left onto Beacon St

262 ft

2 min (0.4 mi)

## Beacon St

Barre, VT 05641

↑ 12. Head northwest on Beacon St toward Sheridan St

384 ft

↩ 13. Turn left onto Sheridan St

479 ft

↩ 14. Turn left onto Wellington St

262 ft

58 s (0.2 mi)

## Wellington St

Barre, VT 05641

↑ 15. Head northwest on Wellington St toward  
Sheridan St

0.1 mi

➡ 16. Turn right onto Merchant St

📍 Destination will be on the left

0.4 mi

1 min (0.5 mi)

## 174 Merchant St

Barre, VT 05641

- ↑ 17. Head north on Merchant St toward Maple Ave 0.2 mi
- ↩ 18. Turn left onto Maple Ave  
 ⓘ Destination will be on the left 0.4 mi

2 min (0.6 mi)

**91 Maple Ave**

Barre, VT 05641

- ↑ 19. Head north on Maple Ave toward Brook St 141 ft
- ↩ 20. Turn left onto Brook St 236 ft
- ↪ 21. Turn right onto Farwell St 482 ft
- ↩ 22. Turn left onto Newton St 331 ft
- ↩ 23. Turn left at the 1st cross street onto Elmwood Ave 197 ft

1 min (0.3 mi)

**Elmwood Ave**

Barre, VT 05641

- ↑ 24. Head south on Elmwood Ave toward Perrin St 0.2 mi
- ↪ 25. Turn right onto Pleasant St 394 ft

1 min (0.2 mi)

**Pleasant St**

Barre, VT 05641

- ↑ 26. Head east on Pleasant St toward Giudici St 0.1 mi
- ↪ 27. Turn right onto Brook St 0.2 mi



↩ 28. Turn left onto N Main St

0.5 mi

↱ 29. Slight right to stay on N Main St

1.1 mi

➡ 30. Turn right onto Parkside Terrace

📍 Destination will be on the right

0.5 mi

10 min (2.4 mi)

## Barre City Elementary and Middle School

50 Parkside Terrace, Barre, VT 05641

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

2019/2020 Leave @ 7:00		
AM TIME	Barre Town # 7A Leave :7:00	PM TIME
	Pick Up Rider At School	2:35
7:04	Bottom Of Highland Crofts	2:42
7:05	# 9 Highland Crofts	2:43
	Highland Crofts TA	2:43
7:08	End of Orchard Terr	2:45
7:09	648 Graniteville Rd (Church P. Lot)	2:46
7:11	Graniteville Rd & Cogswell St	2:48
7:12	Cogswell TA	2:49
7:12	17 Cogswell St	2:50
7:14	Short St	2:50
7:15	236 Donahue Rd	3:03
7:16	Terry Court	3:04
7:16	175 Donahue Rd	3:05
7:17	Lowery Rd	3:06
7:18	134 Waterman St AM	3:07
7:18	Panther	3:08
7:20	19 Waterman St	3:09
7:20	Dicky Ln	3:09
7:21	70 Washington Rd	3:11
7:22	140 Washington Rd (TA)	3:12
7:24	Washington Rd & Prospect St	3:12
7:25	41 Washington Rd	2:50
7:30	Arrive @ BTMES	
	Barre Town # 7A PM	
	LEAVE BTMES	
	Bottom Of Highland Crofts	
	# 9 Highland Crofts	
	Highland Crofts TA	
	End of Orchard Terr	
	648 Graniteville Rd (Church P. Lot)	
	Graniteville Rd & Cogswell St	
	Cogswell Rd Town Line	
	17 Cogswell	
	Short St	
	236 Donahue Rd (Occ)	
	Terry Court	
	175 Donahue Rd	
	Lowery Rd	
	Panther	
	19 Waterman St	
	Dicky Ln	
	70 Washington Rd	
	140 Washington Rd (TA)	
	Washington Rd & Prospect St	
	41 Washington Rd	
	Arrive at BTMES	

Route # 7 Speed Limits vary 25-50 mph  
Barre Town, Variety of Roads, Hills & Conditions

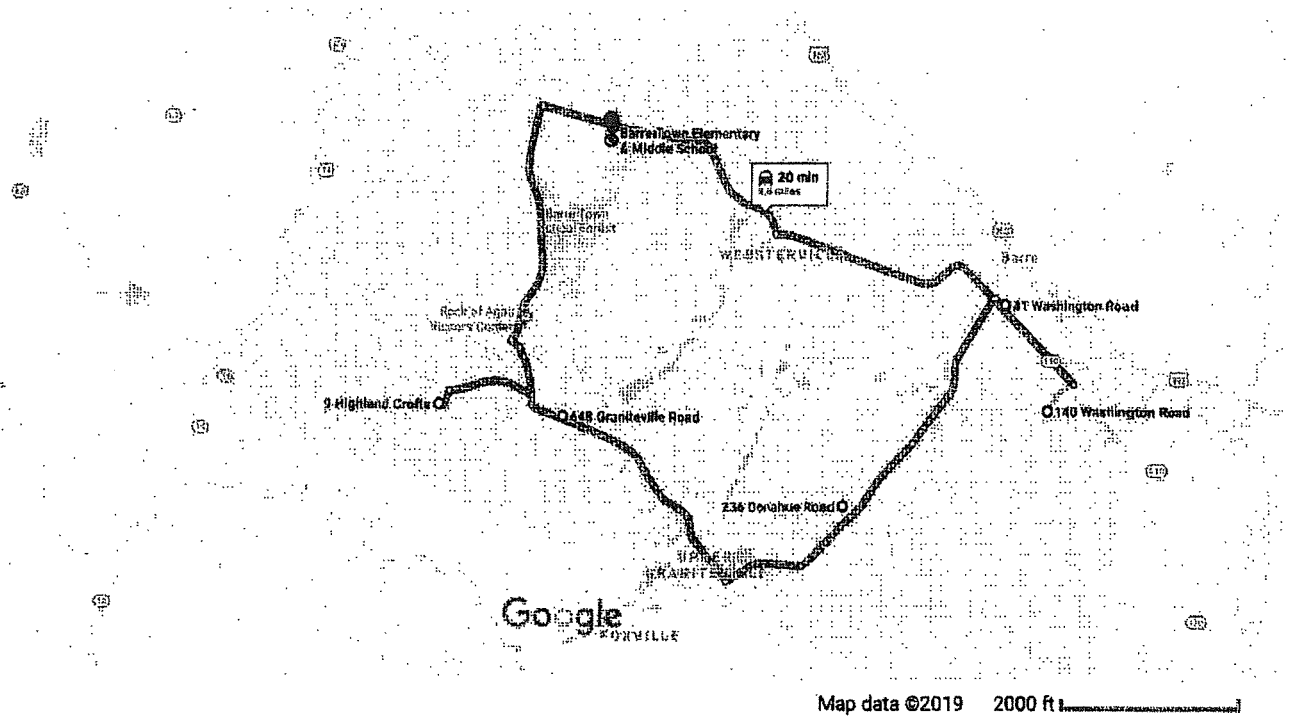
AM - A Run - 9 miles - 35 minutes  
B Run - 9 miles - 35 minutes

PM - A Run - 9 miles 35 minutes  
B Run - 9 miles 35 minutes

4.5 hrs per day  
36 miles day

2019/2020 #7B Leave 8:05			
AM TIME	Barre Town #7B AM	PM TIME	Barre Town #7B PM
8:12	140 Washington Rd (TA)	3:41	103 Websterville Rd (DO NOT DROP W/O ADULT)
8:13	Washington Rd & Prospect St	3:42	Bolster Rd
8:14	41 Washington Rd	3:43	Websterville Rd & Buick St
8:16	Carnes Rd & Blanchi St	3:43	Websterville Rd & Ferris St
8:16	#13 Carnes Rd	3:45	349 Websterville Rd
8:18	High St & Clyde St	3:45	396 Websterville Rd
8:20	Mill St & Church St	3:46	Websterville Rd & Gerard St
8:23	Phil St & Church St	3:47	Teja Rd & Websterville Rd
8:24	Websterville Rd & Gerard St	3:47	Phil St & Church St
8:24	396 Websterville Rd	3:48	Mill St & Church St
8:25	349 Websterville Rd	3:53	140 Washington Rd (TA)
8:25	Websterville Rd & Millstone Blvd	3:54	Washington Rd & Prospect St
8:26	Websterville Rd & Ferris St	3:54	41 Washington Rd
8:27	Websterville Rd & Buick St	3:55	13 Carnes Rd
8:28	Bolster Rd	3:56	Carnes Rd & Blanchi St
8:29	103 Websterville Rd	3:58	High St & Clyde St
8:30	Arrive @ Barre Town school	3:58	High St & Garden St
			Return Rider to School





## Barre Town Elementary & Middle School

70 Websterville Rd, Barre, VT 05641

- ↑ 1. Head east toward Websterville Rd  
230 ft
- ↩ 2. Turn left onto Websterville Rd  
0.3 mi
- ↩ 3. Turn left onto Graniteville Rd  
1.1 mi
- ↩ 4. Turn left onto Middle Rd  
269 ft
- ↑ 5. Continue onto Graniteville Rd  
0.2 mi
- ↪ 6. Turn right onto Orchard Terrace  
0.4 mi
- ↩ 7. Turn left onto Highland Crofts  
361 ft

Destination will be on the right

6 min (2.2 mi)

## 9 Highland Crofts

Graniteville, VT 05654

↑ 8. Head north on Highland Crofts toward Orchard Terrace

361 ft

↗ 9. Turn right onto Orchard Terrace

0.4 mi

↗ 10. Turn right onto Graniteville Rd

226 ft

↶ 11. Turn left to stay on Graniteville Rd

📍 Destination will be on the left

0.1 mi

2 min (0.6 mi)

## 648 Graniteville Rd

Graniteville, VT 05654

↑ 12. Head east on Graniteville Rd toward Cedarbrook Ave

1.1 mi

↶ 13. Turn left onto Donahue Rd

📍 Destination will be on the left

0.7 mi

3 min (1.7 mi)

## 236 Donahue Rd

Graniteville, VT 05654

↑ 14. Head northeast on Donahue Rd toward Terry Ct

0.4 mi

↑ 15. Continue onto Waterman St

0.7 mi

↗ 16. Turn right at Websterville Rd

72 ft

↗ 17. Turn right onto Washington Rd

0.5 mi

3 min (1.7 mi)

## 140 Washington Rd

Barre, VT 05641

- ↑ 18. Head northwest on Washington Rd toward E  
Barre Dam Access Rd

Destination will be on the right

0.5 mi

40 s (0.5 mi)

## 41 Washington Rd

East Barre, VT 05649

- ↑ 19. Head northwest on Washington Rd

262 ft

- ↙ 20. Turn left toward Websterville Rd

72 ft

- ↘ 21. Turn right onto Websterville Rd

1.1 mi

- ↘ 22. Turn right to stay on Websterville Rd

1.0 mi

- ↙ 23. Turn left

Destination will be on the left

230 ft

5 min (2.2 mi)

## Barre Town Elementary & Middle School

70 Websterville Rd, Barre, VT 05641

These directions are for planning purposes only.  
You may find that construction projects, traffic,  
weather, or other events may cause conditions to  
differ from the map results, and you should plan  
your route accordingly. You must obey all signs or  
notices regarding your route.

4

2019/2020 3B Leave 7:35			
AM TIME	Barre Town # 3B	PM TIME	#3B PM
7:40	21 Little John Rd	3:41	52 Westerville Rd
7:40	47 Brook St	3:42	302 Quarry Hill
7:45	Short St	3:43	Conti Circle end of
7:48	175 Donahue Rd	3:43	36 Conti Circle
7:49	134 Waterman AM	3:44	4 Cherry Wood Dr
7:49	Panther	3:45	21 Cherry Wood Dr
7:51	19 Waterman	3:45	51 Cherrywood Dr
7:52	Dicky Ln	3:46	84 Cherry Wood Dr
7:52	24 Fisher Rd	3:47	Silver Circle & Platinum Plain
8:09	18 Cedar St (TA)	3:46	78 Silver Circle
8:14	4 Cherry Wood Dr	3:47	Silver Circle & Gold Spur Ln
8:15	21 Cherry Wood Dr	3:49	148 Sterling Hill Rd
8:16	47 Cherrywood Dr (PK)	3:52	24 Fisher Rd
8:17	84 Cherry Wood Dr	3:56	18 Cedar St (TA)
8:17	Silver Circle & Platinum Plain		Return rider to School
8:18	18 Silver Circle		
8:19	50 Silver Circle (PK)		
8:20	78 Silver Circle		
8:21	Silver Circle & Gold Spur Ln		
8:24	148 Stearling Hill Rd		
8:25	End of Conti Cir		
8:26	36 Conti Cir		
8:29	52 Westerville Rd		
8:30	ARRIVE @ BTMES		

Route #3 - Speed limits vary 25-50 mph.  
Barre Town, Variety of Roads, Hill's Conditions

AM - A Run - 7 miles 35 minutes  
B Run - 7 miles 35 minutes  
PM - A Run - 7 miles 35 minutes  
B Run - 7 miles 35 minutes

4.5 hrs per day  
28 miles per day

AM TIME	2019/2020 Leave 6:30	PM TIME	#3A PM
6:57	Barre Town #3A 6:49	2:38	#1 Little John Rd
6:57	84 Cherrywood Dr	2:39	Websterville Rd & Gregoire St
6:58	Silver Circle & Platinum Plain	2:39	Mill Stone Blv. PM
7:00	96 Silver Circle	2:40	Gerard St
7:01	120 Silver Circle	2:41	LeFluer St
7:02	Silver Circle & Gold Spur Ln	2:42	Teja St
7:04	148 Sterling Hill Rd	2:43	Church St & Mill St
7:06	302 Quarry Hill Rd	2:44	494 Websterville Rd
7:09	29 Conti Circle	2:44	Carnes Rd & Binachi St
7:10	1 Little John Rd	2:49	476 Websterville Rd PM
7:12	7 Gregoire St	2:58	#302 Quarry Hill
7:13	Church St & Phil St	2:59	Beede Circle & Conti Circle
7:15	Church St & Mill St	3:01	34 Cherrywood Dr
7:19	Carnes Rd & Binachi St	3:02	84 Cherrywood Dr
7:20	Gerard St	3:03	Silver Circle & Platinum Plain
7:28	Websterville Rd & Lefleur St	3:04	Silver Circle & Gold Spur Ln
	ARRIVE @ BTEMS	3:04	96 Silver Cir
		3:05	120 Silver Circle
		3:06	148 Sterling Hill Rd
		3:10	8 Cedar St

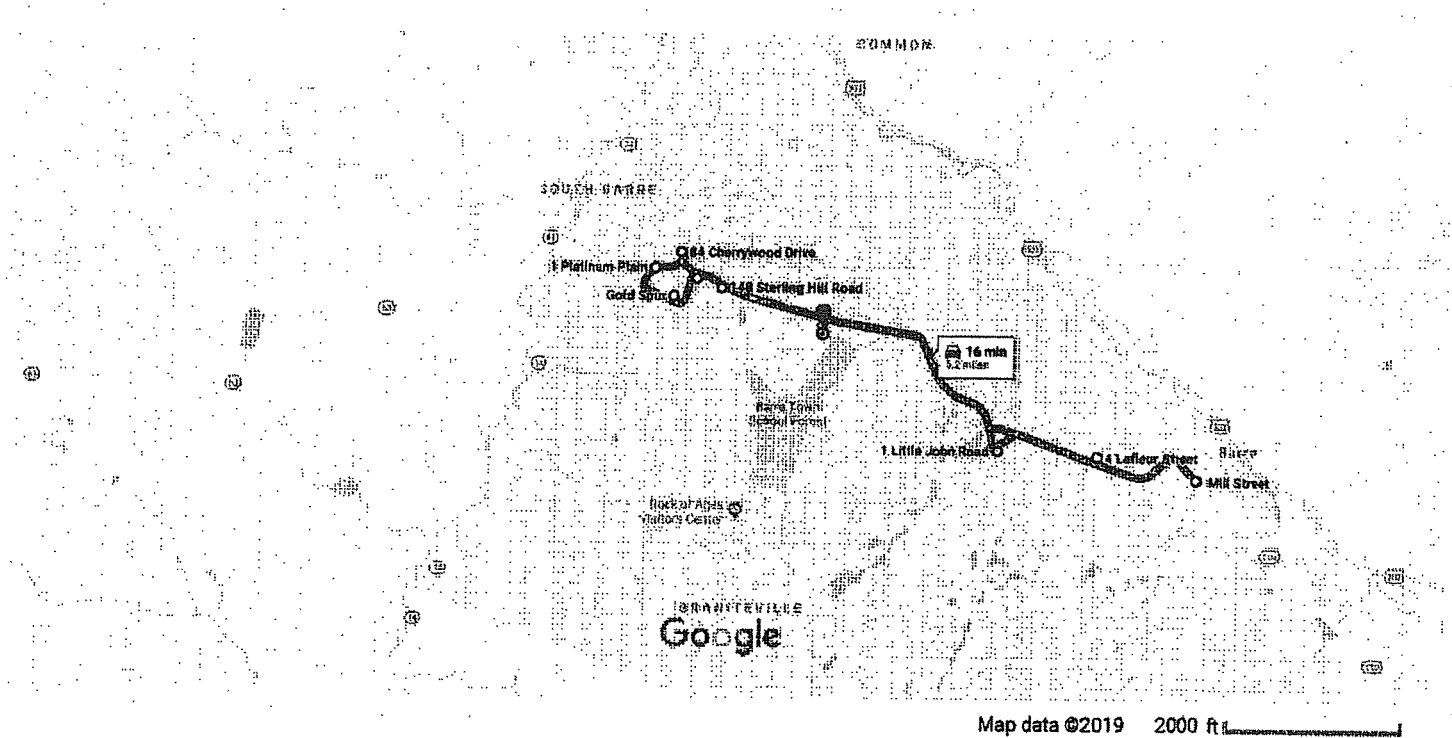
W



Google Maps

# Barre Town Elementary & Middle School to Barre Town Elementary & Middle School

Drive 6.2 miles, 16 min



## Barre Town Elementary & Middle School

70 Websterville Rd, Barre, VT 05641

- ↑ 1. Head east toward Websterville Rd  
230 ft
- ↩ 2. Turn left onto Websterville Rd  
0.3 mi
- ↑ 3. Continue onto Sterling Hill Rd  
0.4 mi
- ↪ 4. Turn right onto Cherrywood Dr  
Destination will be on the left  
262 ft

3 min (0.8 mi)

## 84 Cherrywood Dr

Barre, VT 05641

- ↑ 5. Head south on Cherrywood Dr toward Sterling Hill Rd  
262 ft
- ↑ 6. Continue onto Silver Cir  
0.1 mi

42 s (0.2 mi)

4

## 1 Platinum Plain

Barre, VT 05641

- ↑ 7. Head southwest on Silver Cir toward Gold Spur  
0.3 mi
- ↩ 8. Turn left onto Gold Spur  
157 ft

1 min (0.3 mi)

## Gold Spur

Barre, VT 05641

- ↑ 9. Head south on Gold Spur toward Silver Cir  
157 ft
- ↩ 10. Turn left onto Silver Cir  
Destination will be on the right  
0.2 mi

52 s (0.2 mi)

## 120 Silver Cir

Barre, VT 05641

- ↑ 11. Head northeast on Silver Cir toward Sterling Hill Rd  
85 ft
- ↪ 12. Turn right onto Sterling Hill Rd  
Destination will be on the right  
0.1 mi

32 s (0.1 mi)

## 148 Sterling Hill Rd

Barre, VT 05641

- ↑ 13. Head southeast on Sterling Hill Rd toward Graniteville Rd  
0.1 mi
- ↑ 14. Continue onto Websterville Rd  
1.3 mi
- ↑ 15. Continue straight onto Church Hill Rd  
495 ft

9/27/2019

Barre Town Elementary & Middle School to Barre Town Elementary & Middle School - Google Maps

- ↑ 16. Continue straight onto Little John Rd

Destination will be on the left



82 ft

3 min (1.5 mi)

## 1 Little John Rd

Barre, VT 05641

- ↑ 17. Head northwest on Little John Rd toward Gregoire St

82 ft

- 18. Turn right onto Gregoire St

0.1 mi

- 19. Turn right onto Websterville Rd

0.9 mi

2 min (1.0 mi)

## Mill St

Barre, VT 05649

- ↑ 20. Head northwest on Websterville Rd toward High St

Destination will be on the right

0.5 mi

1 min (0.5 mi)

## 4 Lefleur St

Barre, VT 05641

- ↑ 21. Head west on Websterville Rd toward Gregoire St

0.5 mi

- 22. Turn right to stay on Websterville Rd

1.0 mi

- ↶ 23. Turn left

Destination will be on the left

230 ft

3 min (1.5 mi)

## Barre Town Elementary & Middle School

70 Websterville Rd, Barre, VT 05641



aa

**Carpenter Ln, Barre, VT 05641**

mapquest

Carpenter Ln, Barre, VT 05641

44.168142, -72.484440

Partial Data by Infogroup (c) 2019. All rights reserved.





# NORWAY & SONS, INC

## ELECTRICAL CONTRACTORS

393 North Main Street, Barre, Vermont 05641

802-479-2030 • Fax: 802-479-3183 • Norway-Sons.com

bb

September 30, 2019

Jamie Evans  
BUUSD Facilities Director  
120 Ayers Street  
Barre, Vermont

Re: EV Chargers

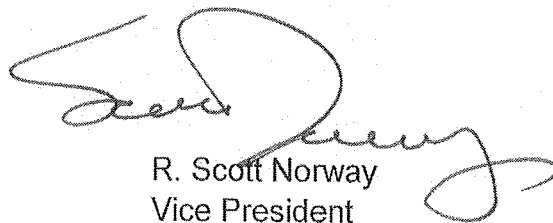
Jamie:

As requested, Norway & Sons, Inc. is pleased to quote a price of Twelve Thousand Nine Hundred Sixty Nine Dollars ( \$12,969.00 ) for the above referenced Project based on the following scope of work:

1. Furnish and install a 200 amp Meter Breaker Enclosure with two (2) 100 amp breakers.
2. Furnish and install two (2) 100 amp circuits for the Chargers
3. Furnish and install two (2) post mounted Clipper Creek CS-100 Charging Stations.
4. Exclusions:
  - Excavation & Backfill
  - Utility Fees
  - Sales Tax

Please call with any questions you may have.

Sincerely,



R. Scott Norway  
Vice President



cc  
October 1, 2019

Vermont Department of Economic Conservation  
Vermont Energy Investment Corporation (VEIC)  
128 Lakeside Avenue  
Burlington, VT 05401  
Phone: (802) 540-7814

RE: Verified Funding Commitment Letter

Dear Vermont Energy Investment Corporation:

I, Dana Jean Morris, an "Authorized Representative" of Student Transportation of Vermont, Inc., a wholly owned subsidiary of Student Transportation of America Inc., do hereby attest that Student Transportation of America Inc. has available cash funds in an amount that is sufficient to initially fund the entire project being proposed in this Vermont Electric School and Transit Bus Pilot Program. I further attest that these cash funds on deposit are free of any liens or encumbrances and that said cash funds are immediately available and freely transferable.

Authorized Representative: Dana Jean D. Morris

Authorized Representative Name (printed): Dana Jean D. Morris

Date of Signature: 10/1/19

**Barre City Elementary & Middle School  
Spaulding High School**

**Lisa Perreault, SFO**  
Business Manager

**Jessica Barewicz**  
Director of Curriculum, Instruction, and  
Assessment

**Donald E. McMahon, M.Ed.**  
**Stacy Anderson, M.Ed.**  
Co-Directors of Special Services

**Annette Rhoades**  
Assistant Director of Special Services



**Barre Unified Union School District**

120 Ayers Street, Barre, VT 05641

Phone: 802-476-5011

Fax: 802-476-4944 or 802-477-1132

[www.buUSD.org](http://www.buUSD.org)

**John Pandolfo**  
Superintendent of Schools

*Doing whatever it takes to ensure success for every child.*

**Barre Town Middle & Elementary School  
Central Vermont Career Center**

**Carol Marold**  
Director of Human Resources

**Emmanuel Ajanma**  
Director of Technology

**Lauren May**  
Early Education Coordinator

**Jamie Evans**  
Director of Facilities

**Josh Allen**  
Communications Specialist

September 23, 2019

Vermont Energy Investment Corporation  
128 Lakeside Avenue, Suite 401  
Burlington, VT 05401

**RE: Barre Unified Union School District and Student Transportation of America, Inc. (STA) Electric Bus Proposal**

Dear Proposal Evaluation Committee:

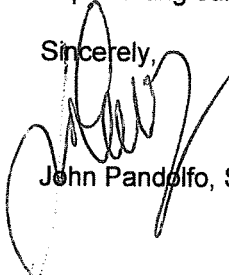
It is my pleasure to write this letter in support of the Vermont Electric School and Transit Bus Pilot Program proposal submitted on behalf of the Barre Unified Union School District (BUUSD) in collaboration with our contracted transportation provider, Student Transportation of America, Inc. ("STA").

STA has served the Barre City School for over 10 years and the Barre Town School for 2 years. Upon hearing about this exciting opportunity the BUUSD business manager and STA regional manager collaborated and put together a comprehensive response to the VEIC/DEC RFQ. The BUUSD Board and Finance Committee have heard about this exciting opportunity and are very eager to explore the possibility of putting 2 electric buses on our student routes. BUUSD and STA have a common goal to provide all of our students with a safe and healthy ride to school. The BUUSD and STA have formed a trusted relationship in our commitment in this important effort.

Motorized vehicles such as cars, trucks and buses are one of the leading causes of toxic air pollutants in the State of Vermont. Vermont has seen a fast-paced adoption in electric vehicles over the past two years with more than 1 out of every 100 new vehicles purchased in Vermont being plug-in or fully electric vehicles. BUUSD and STA are in direct alignment with the overall goal of the State to drastically reduce harmful pollutants and greenhouse gas emissions through the implementation of electric school buses in order to provide a cleaner, healthier environment for the students we serve. Diesel-fueled buses emit diesel particulate matter (PM), toxic air contaminants that adversely affect human health, including proper lung development in children. Several studies of diesel PM and children's exposure to air pollution on school buses has found that the school bus itself is a major source of diesel PM exposure for children riding the bus. Funding the replacement of diesel-powered school bus with electric school buses not only reduces diesel PM, but also reduces NOx, which is the focus of the VW Mitigation Trust.

The BUUSD Board of Directors and I fully support the use of electric buses in our community. We believe that awarding the EMT funds to BUUSD/STA will incentivize STA to modernize their fleet faster than normal budgets will allow and serve as a long-term beneficial investment in the State of Vermont's efforts to reduce harmful diesel emissions. Asthma, respiratory illnesses and reduced lung function are just some of the effects students may face when breathing in toxic pollutants produced by diesel emissions. We appreciate the State of Vermont and the VEIC as they assist us with our goal of protecting our students and our environment for years to come. Thank you for this opportunity.

Sincerely,

  
John Pandolfo, Superintendent



163 Acorn Lane  
Colchester, Vermont 05466

Graham Turk  
Innovation Champion

Phone: (802)363-6258  
Graham.Turk@greenmountainpower.com

To whom it may concern,

I am writing on behalf of Green Mountain Power (GMP) in support of Barre Unified Union School District's application to the Electric School and Transit Bus Pilot Program. GMP is excited to play an active role in the pilot. The District has met with a GMP distribution designer and reviewed two proposed sites to install charging infrastructure. Under the first, there would be a required upgrade to the site's electrical service at a cost of approximately \$2,500. Under the second, no upgrades would be necessary. There may be costs on the customer side of the meter, but those do not directly involve GMP. We leave it up to the District to specify which site to designate as the preferred option.

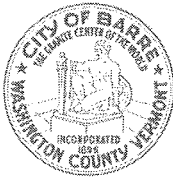
We will support the pilot through Tier 3 incentives for the vehicle and charging infrastructure, the amount of which will be based on further analysis if the District is ultimately selected. We also plan to pilot a special rate for electric school bus charging to reduce operating costs beyond the existing savings from converting from diesel fuel to electricity.

If you have any questions, please contact me by email at [graham.turk@greenmountainpower.com](mailto:graham.turk@greenmountainpower.com).

Sincerely,

A handwritten signature in dark ink, appearing to read "G. Turk", is written over a horizontal line.

Graham Turk



Lucas J. Herring  
Mayor, City of Barre

*City of Barre, Vermont*  
*"Granite Center of the World"*

6 N. Main St., Suite 2  
Barre, VT 05641  
Telephone (802) 476-0240  
FAX (802) 476-0264  
[lherring@barrecity.org](mailto:lherring@barrecity.org)

September 30<sup>th</sup>, 2019

Vermont Energy Investment Corporation  
128 Lakeside Avenue, Suite 401  
Burlington, VT 05401

**RE: Support for the Barre Unified Union School District (BUUSD) and Student Transportation of America, Inc. (STA) Electric Bus Proposal**

To Whom It May Concern:

It is my pleasure, as the Mayor of Barre City, to write this letter in support of the Vermont Electric School and Transit Bus Pilot Program proposal submitted on behalf of the Barre Unified Union School District (BUUSD) in collaboration with their contracted transportation provider, Student Transportation of America (STA).

I have reviewed the RFP and believe that Barre is the perfect choice for your pilot. The community has a diverse population and varied terrain with city streets and dirt roads. Formerly known as the Barre Supervisory Union, the BUUSD merged on July 1, 2019. This forced merger directed by the State Board of Education under Act 46 caused significant divide between the residents of the city and town. Awarding these funds to the BUUSD and STA will be another step in bridging the gap between our community members.

The BUUSD has demonstrated their commitment to energy efficiency by partnering with solar management companies which provides net metering credits in each of their school buildings. Similarly, the City of Barre partners in the same net metering program for renewable energy. All school staff and students take recycling and composting very seriously, and the City of Barre has partnered with the City of Montpelier to investigate curb-side pickup program through a joint Solid Waste Management Committee. The learning opportunities for the students are endless and I believe the dedicated faculty and staff will incorporate this into their instruction. This will also be a great way to engage parents in conversations with their children on important issues around the environment and global warming.

Resolution 2018-05 on April 24<sup>th</sup> of 2018 started a trend, including participation Earth Hour and water conservation efforts, within the City of Barre. Recently, the City of Barre was awarded 40 trees by Green Mountain Power that were planted as part of a screen of our Waste Water Treatment Facility while reducing carbon released as part of our commitment to the

environment. The City of Barre has also partnered with the Central Vermont Regional Planning Commission (CVRPC) to work toward a sustainable transportation network, which was supported in the State of Vermont H.529 Transportation Bill in the 2019 session. Additionally, Green Up Day in Vermont has been embraced by the Barre community being promoted by the Spaulding Action For the Environment (S.A.F.E) for over 25 years.

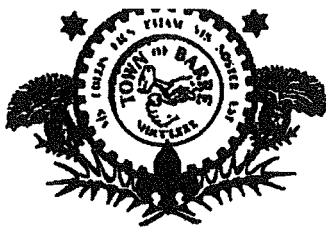
I fully support the BUUSD/STA in their efforts and hope they are awarded the VEMT funds. I look forward to the deployment of the first zero-emission school buses in Central Vermont. The long-term beneficial investment in the State of Vermont's efforts to reduce harmful diesel emissions is to be applauded and something to be proud of. Please consider Barre Unified Union School District to lead your pilot.

Thank you for your consideration.

Very Truly Yours,

*Lucas J. Herring*

Lucas J. Herring  
Mayor, City of Barre



# TOWN OF BARRE, VERMONT

OFFICE OF THE TOWN MANAGER

WEBSTERVILLE, VT 05678-0116

TELEPHONE: 802-479-9331

FAX: 802-479-9332

Carl Rogers  
Town Manager

99

Barre Unified Union School District  
c/o John Pandolfo  
120 Ayers St  
Barre VT 05641

October 1, 2019

Subject: Electric School and Transit Bus Pilot Program Support

Dear Superintendent Pandolfo,

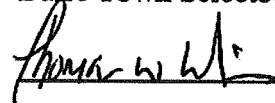
On behalf of the Town of Barre, the Selectboard wishes to express its support of the Barre Unified Union School District's application to participate in VEIC's Electric School and Transit Bus Pilot Program.

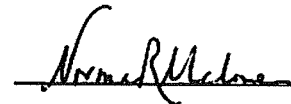
As stated in our Town Plan, our community is interested in energy conservation as an important way to promote cost savings, greater energy independence and security, more efficient communities, healthier communities, and a clean environment. Further, Barre Town is rich in areas of natural beauty and places a high priority on scenic preservation. As a community we are therefore in favor of cost-effective programs that directly or indirectly promote scenic preservation.

As you know, Barre Town school students are bused from all over our hilly, rural town, over gravel roads and paved ones, to our large central elementary and middle school. As a Selectboard we support our schools in participating in a pilot that can help prove out the effectiveness of an electric bus program in our town, and in towns like ours.

Sincerely,

Barre Town Selectboard

  
\_\_\_\_\_

  
\_\_\_\_\_

  
\_\_\_\_\_

  
\_\_\_\_\_

  
\_\_\_\_\_