



**CITY OF HAVERHILL
CITY COUNCIL AGENDA**

Tuesday, September 23, 2025, at 7:00 PM

Theodore A. Pelosi, Jr. Council Chambers, 4 Summer st, Room 202

In-Person/Remote Meeting

This meeting of Haverhill City Council will be held in-person at the location provided on this notice as its official meeting location pursuant to the Open Meeting Law. As the meeting is held in person at a physical location that is open and accessible to the public, the City Council is not required to provide remote access to the meeting. Members of the public are welcome to attend this in-person meeting. Please note that a live stream of the meeting is being provided only as a courtesy to the public, and the meeting will not be suspended or terminated if technological problems interrupt the virtual broadcast, unless otherwise required by law. Members of the public with particular interest in any specific item on this agenda should make plans for in-person vs. virtual attendance accordingly. Those attending tonight's meeting should be aware that the meeting is being audio and video recorded by HCTV, The Eagle Tribune, and WHAV. Any audience members who wish to record any part of the meeting must inform the Council President who will announce the recording. This is to comply with the MA wiretap statute. Thank you.

SEP 19 PM 12:05
HAVERHILL CLERK

1. OPENING PRAYER

2. PLEDGE OF ALLEGIANCE

3. APPROVAL OF MINUTES OF PRIOR MEETING

4. ASSIGNMENT OF THE MINUTES REVIEW FOR THE NEXT MEETING:

5. COMMUNICATIONS FROM THE MAYOR:

5.1. Mayor Barrett and Councilor Toohey request to recognize Nicky Tejada of the *Haverhill Downtown Boxing Club* for his outstanding achievement in recently being crowned the WBC USA Silver Super Lightweight Champion

5.2. Mayor Barrett submits several orders relating to property exemptions

5.2.1. Order- That the City shall increase the amount of personal property exemption permitted under Chapter 59, Section 5, Clause 54 of the Massachusetts General Laws from the previously approved seven thousand dollars to ten thousand dollars, to be effective July 1, 2026



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5.2.2. Order- That the City votes to adjust the real property assessment exemption permitted under Chapter 59, Section 5N of the Massachusetts General Laws for volunteer services performed by veterans to (1) allow an approved representative, for persons physically unable, to provide such services to the City; and (2) allow the maximum of the real property tax bill to be based on 125 volunteer service hours in a given tax year, or \$1,500, to be effective July 1, 2026

5.2.3. Order- That the City shall increase the amount of the additional exemption for property assessment permitted under Chapter 59, Section 5C1/2 of the Massachusetts General Laws from the previously approved forty percent to one hundred percent, to be effective July 1, 2026 for a period of three years

6. COMMUNICATIONS FROM COUNCILORS TO INTRODUCE AN INDIVIDUAL(S) TO ADDRESS THE COUNCIL:

6.1. Councilor Ferreira introduces Ward 3 resident Sara Hilinski speak about Governor Healey's DRIVE act and requests the Council consider adopting a resolution to support this legislation

7. PUBLIC PARTICIPATION- REQUESTS UNDER COUNCIL RULE 28

8. COMMUNICATIONS AND REPORTS FROM CITY OFFICERS AND EMPLOYEES:

8.1. Angel A. Perkins, *City Auditor and Chief Financial Officer*, submits the revenue and expense reports through August 31, 2025

9. UTILITY HEARING(S) AND RELATED ORDER(S):



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10. HEARINGS AND RELATED ORDERS:

- 10.1. CCSP-22-4; Attorney Donald Borenstein for *Kayrouz Petroleum, LLC* requesting to store 20,000 gallons of Class II diesel fuel in an underground storage tank and 2,500 gallons of DEF (Diesel Exhaust Fluid) in an underground storage tank at 298 Amesbury Rd

Continued from hearing in August 2022 (Document 57 of 2022) after Land Court decision (Land Court decision included) and comments from City Departments are included

11. APPOINTMENTS:

11.1. **Confirming Appointments:**

- 11.1.1. *Haverhill Cultural Council – Taina Mathurin Janvier, 34 Kennedy Cir Apt. A, expires September 30, 2028*

11.2. **Non-Confirming Appointments:**

11.3. **Constables**

11.4. **Resignations**

12. PETITIONS:

- 12.1. Petition from National Grid and Verizon NE, WR# 31150941, requesting joint pole location on Garfield St Hearing October 21st
- 12.2. Petition from National Grid and Verizon NE, WR# 31188397, requesting joint pole location on High St Hearing October 21st
- 12.3. Petition from National Grid and Verizon NE, WR# 31188400, requesting joint pole location on Rogers Rd Hearing October 21st
- 12.4. Petition from National Grid and Verizon NE, WR# 31188421, requesting joint pole location on Ward Hill Ave Hearing October 21st
- 12.5. Petition from National Grid, WR# 31140177, requesting the installation of underground facilities on Back Ln Hearing October 21st



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- 12.6. SPFL-25-2; Guy Bresnahan for Broco Energy requests to store an additional 30,000 gallons of propane in an above ground storage tank, three additional propane transport trailer trucks with a tank capacity of 12,600 gallons each for a total storage increase of 37,800 gallons of truck storage, and 8,000 gallons in miscellaneous empty customer tank - the overall propane storage capacity is being increased by 75,800 gallons at 158 Hale St

Hearing December 2nd

- 12.7. Applications Handicap Parking Sign: *with Police approval*
12.8. Amusement/Event Application: *with Police approval*
12.9. Auctioneer License:
12.10. Tag Days: *with Police approval*
12.11. One Day Liquor License –with HPD approval
12.12. ANNUAL LICENSE RENEWALS:
12.12.1. **Hawker Peddlers License- Fixed location – w/Police approval**
12.12.2. **Coin-Op License Renewals – with Police approval**
12.12.3. **Christmas Tree Vendor – with Police approval**
12.12.4. **Taxi Driver Licenses for 2024: with Police approval**
12.12.5. **Taxi/Limousine License with Police approval**
12.12.6. **Junk Dealer /Collector License - with Police approval**
12.12.7. **Pool/Billiard**
12.12.8. **Bowling**
12.12.9. **Sunday Bowling**
12.12.10. **Buy & Sell Second Hand Articles with Police approval**
12.12.11. **Buy & Sell Second Hand Clothing with Police approval**
12.12.12. **Pawnbroker license - with police approval**
12.12.13. **Fortune Teller with - Police approval**
12.12.14. **Buy & Sell Old Gold – with Police approval**
12.12.15. **Roller Skating Rink**
12.12.16. **Sunday Skating**
12.12.17. **Exterior Vending Machines/Redbox Automated Retail, LLC**
12.12.18. **Limousine/Livery License/Chair Cars with Police approval**

13. MOTIONS AND ORDERS:



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14.ORDINANCES (FILE 10 DAYS):

15.COMMUNICATIONS FROM COUNCILORS:

16.UNFINISHED BUSINESS OF PRECEEDING MEETING:

17.RESOLUTIONS AND PROCLAMATIONS:

- 17.1. Mayor Barrett presents the following proclamation:
September 15 - October 15, 2025, as *Hispanic Heritage Month* in the
City of Haverhill

18.COUNCIL COMMITTEE REPORTS AND ANNOUNCEMENTS:

19.DOCUMENTS REFERRED TO COMMITTEE STUDY:

20.LONG TERM MATTERS STUDY LIST:

21. ADJOURN:

MELINDA E. BARRETT
MAYOR



CITY OF HAVERHILL
MASSACHUSETTS

CITY HALL, ROOM 100
FOUR SUMMER STREET
HAVERHILL, MA 01830
PHONE 978-374-2300
FAX 978-373-7544
MAYOR@HAVERHILLMA.GOV
WWW.HAVERHILLMA.GOV

September 18, 2025

To: City Council President Thomas J. Sullivan and Members of the Haverhill City Council

From: Mayor Melinda E. Barrett

RE: Recognition of Nicky Tejada

Dear Mr. President and Members of the Haverhill City Council:

I, Mayor Barrett, wish to recognize Nicky Tejada of the Haverhill Downtown Boxing Club for his outstanding achievement in recently being crowned the WBC USA Silver Super Lightweight Champion.

Sincerely,

Melinda E. Barrett
Mayor

MEB/em

CITY COUNCIL

Thomas J. Sullivan, President
Timothy J. Jordan, Vice President
John A. Michitson
Colin F. LePage
Melissa J. Lewandowski
Catherine P. Rogers
Shaun P. Toohey
Michael S. McGonagle
Katrina Hobbs Everett
Devan Ferreira
Ralph T. Basiliere



CITY HALL, ROOM 204
4 SUMMER STREET
TELEPHONE: 978-374-2328
FACSIMILE: 978-374-2329
WWW.CITYOFHAVERHILL.COM
CITYCOUNCIL@HAVERHILLMA.GOV

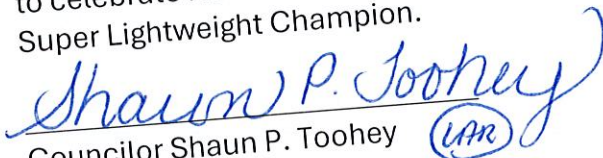
CITY OF HAVERHILL
HAVERHILL, MASSACHUSETTS 01830-5843

SEP 18 PM 1:31
HVCITYCLERK

September 17, 2025

To: President and Members of the City Council

Councilor Toohey wishes to recognize Nicky Tejada of the Haverhill Downtown Boxing Club to celebrate his outstanding achievement of being recently crowned the WBC USA Silver Super Lightweight Champion.


Councilor Shaun P. Toohey

(Meeting: 9.23.25)

City of Haverhill, Massachusetts

OFFICIAL CITATION

Presented by the
OFFICE OF THE MAYOR

TO

Nicky Tejada

In recognition of

***Being crowned the WBC USA Silver
Super Lightweight Champion***

Your achievement is a testament to your dedication
and hard work, both in and out of the ring. Best wishes
for your future endeavors and congratulations!



*In witness whereof, I have set my hand and
caused the seal of the City of Haverhill,
Massachusetts to be affixed this 23rd day of
September in the Year of Our Lord, Two
Thousand and Twenty-Five.*

Melinda E. Barrett

Mayor Melinda E. Barrett

MELINDA E. BARRETT
MAYOR



CITY OF HAVERHILL
MASSACHUSETTS

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5.2.1

September 19, 2025

To: City Council President Thomas J. Sullivan and Members of the
Haverhill City Council

From: Mayor Melinda E. Barrett

Re: Order Relating To Increasing The Exemption Amount
Under M.G.L. c.59, §5(54)

Dear Mr. President and Members of the City Council:

Submitted herewith is an Order to increase the exemption amount under M.G.L. c.59, §5(54) pertaining to personal property from the previously approved amount of \$7,000 to \$10,000 effective July 1, 2026.

I recommend approval.

Very truly yours,

Melinda E. Barrett
Mayor



Document
CITY OF HAVERHILL
In Municipal Council

5.2.1

SEP 19 4:48:20
HACITYCLERK

Ordered:

CITY COUNCIL

AN ORDER RELATING TO INCREASING THE EXEMPTION AMOUNT UNDER
M.G.L. C. 59, § 5(54)

BE IT ORDERED by the City Council of the City of Haverhill that the City shall increase the amount of the personal property exemption permitted under Chapter 59, Section 5, Clause 54 of the Massachusetts General Laws from the previously approved seven thousand dollars to ten thousand dollars, to be effective July 1, 2026.

APPROVED AS TO LEGALITY:

City Solicitor

Voted

Attest:

Approved:

City Clerk

Mayor

MELINDA E. BARRETT
MAYOR



CITY OF HAVERHILL
MASSACHUSETTS

CITY HALL, ROOM 100
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September 19, 2025

To: City Council President Thomas J. Sullivan and Members of the
Haverhill City Council

From: Mayor Melinda E. Barrett

Re: Order Relating To Adjusting The Exemption Permitted
Under M.G.L. c.59, §5N

Dear Mr. President and Members of the City Council:

Submitted herewith is an Order to adjust the exemption permitted under M.G.L. c.59, §5N for Veterans effective July 1, 2026.

I recommend approval.

Very truly yours,

Melinda E. Barrett
Mayor



Document
CITY OF HAVERHILL
In Municipal Council

5.2.2

SEP 19 4:02:20
HVCIT/CLERK

Ordered:

CITY COUNCIL

AN ORDER RELATING TO ADJUSTING THE EXEMPTION PERMITTED UNDER
M.G.L. C. 59, § 5N

BE IT ORDERED by the City Council of the City of Haverhill that the City votes to adjust the real property assessment exemption permitted under Chapter 59, Section 5N of the Massachusetts General Laws for volunteer services performed by veterans to (1) allow an approved representative, for persons physically unable, to provide such services to the City; and (2) allow the maximum reduction of the real property tax bill to be based on 125 volunteer service hours in a given tax year, or \$1,500, to be effective July 1, 2026.

APPROVED AS TO LEGALITY:

City Solicitor

Voted

Attest:

Approved:

City Clerk

Mayor

MELINDA E. BARRETT
MAYOR



CITY OF HAVERHILL
MASSACHUSETTS

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September 19, 2025

To: City Council President Thomas J. Sullivan and Members of the
Haverhill City Council

From: Mayor Melinda E. Barrett

Re: Order Relating To Increasing The Exemption Amount
Under M.G.L. c.59, §5C1/2

Dear Mr. President and Members of the City Council:

Submitted herewith is an Order to increase the exemption amount under M.G.L. c.59, §5C1/2 for those over age 70, widows, disabled veterans and legally blind from the previously approved forty percent (40%) to one hundred percent (100%) effective July 1, 2026 for a period of three (3) years.

I recommend approval.

Very truly yours,

Melinda E. Barrett
Mayor



Document
CITY OF HAVERHILL
In Municipal Council

5.2.3

SEP 19 AM 8:20
HVCITYCLERK

Ordered:

CITY COUNCIL

AN ORDER RELATING TO INCREASING THE EXEMPTION AMOUNT UNDER
M.G.L. C. 59, § 5C1/2

BE IT ORDERED by the City Council of the City of Haverhill that the City shall increase the amount of the additional exemption for property assessment permitted under Chapter 59, Section 5C1/2 of the Massachusetts General Laws from the previously approved forty percent to one hundred percent, to be effective July 1, 2026 for a period of three years.

APPROVED AS TO LEGALITY:

City Solicitor

Voted

Attest:

Approved:

City Clerk

Mayor

CITY COUNCIL

Thomas J. Sullivan, *President*
Timothy J. Jordan, *Vice President*
John A. Michitson
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CITYCOUNCIL@HAVERHILLMA.GOV

CITY OF HAVERHILL

HAVERHILL, MASSACHUSETTS 01830-5843

SEP 19 AM 8:41
HVCITYCLERK

September 19, 2025

To: President and Members of the City Council

Councilor Ferreira introduces Ward 3 resident Sara Hilinski to speak about Governor Healey's DRIVE act and requests the Council consider adopting a resolution to support this legislation.


Councilor Devan Ferreira 

(Meeting: 9.23.25)

Public Higher Education Resolution

TO ADDRESS FEDERAL ATTACKS & FUNDING CUTS

- **Whereas, community colleges**, state universities and UMass play an integral role in fostering the public good in Massachusetts;
- **Whereas, public colleges and universities** provide the education and career training to allow for social and economic mobility necessary for creating greater equality among our residents;
- **Whereas, public colleges and universities across the state** are major employers, and the students attending public colleges and universities generate significant economic activity;
- **Whereas, public education** provides a highly trained and highly educated workforce for businesses and industries based in Massachusetts;
- **Whereas, public colleges and universities in Massachusetts** are conducting research and studies that benefit people all around the world;
- **Whereas, public colleges and universities** have a responsibility to ensure costs to students are not prohibitive or do not require going into debilitating debt;
- **Whereas, public colleges and universities** are experiencing severe disruptions in funding as federal grants that pay for research that benefits society and supports academic pursuits are being paused and canceled;
- **Whereas, the federal budget under consideration** is proposing severe reductions in funding for Pell Grants that students can use to pay for college;
- **Whereas, Massachusetts voters** approved the Fair Share surtax on income above \$1 million to generate revenue specifically for public education and transportation;
- **Be it resolved** that (this board) voices its support for Massachusetts' community colleges, state universities and UMass;
- **Be it resolved** that (this board) urges the state Legislature to set aside \$200 million from the more than \$2 billion generated by Fair Share as a first step toward stabilizing public higher education funding that supports students, faculty and staff;
- **Be it resolved** that (this board) urges the state Legislature and governor to strategically increase funding for public colleges and universities to lessen their reliance on grants, privatization and student tuition and fees;
- **Be it resolved** that (this board) supports Massachusetts having public colleges and universities that students can attend without incurring debt and that provide the salaries and benefits necessary to retain and attract the faculty and staff needed to maintain the quality of education our state deserves.

FOR MORE INFORMATION
Grassroots@massteacher.org.



A DIVERSE UNION
of EDUCATION
WORKERS

MASSACHUSETTS FIGHTS FOR PUBLIC HIGHER EDUCATION

Federal Attacks on Students, Staff and Faculty at Public Colleges Hurt Us All

THE PROBLEM: The Trump administration is sowing chaos in our state's public higher education system by freezing and canceling federal funding that supports research and other academic pursuits and programs such as TRIO Student Support Services. The federal administration is using false claims of racial bias and prejudice to end its support of public higher education. Hundreds of millions of dollars are at stake for public colleges and universities.

THE SOLUTION: Governor Maura Healey's proposed DRIVE Act makes Massachusetts the first state in the nation to address the Trump administration's politically motivated attacks on higher education. DRIVE (H.4375 An Act to preserve and advance Massachusetts' competitiveness in discovery, research, and innovation for a vibrant economy) is a \$400 million investment, which includes \$200 million from Fair Share Amendment funds specifically earmarked to backfill federal cuts made to public colleges and universities. The funding to public higher education must extend beyond research cuts to also include other jeopardized academic programs and student support services. To further insulate public higher education from attacks coming from the federal government, Massachusetts needs a long-term funding strategy to increase state investment in public colleges and universities. The Legislature and Healey administration can use funds raised by Fair Share to further protect students, faculty and staff at public colleges and universities.

WHY FIGHT: Access to high-quality higher education drives economic and social mobility, making it a crucial tool for reducing systemic inequality rooted in racism. The state's economy also relies on having a highly educated workforce. Since the state created free access to community colleges and other financial assistance programs, enrollment is up in all sectors of public higher education, including more students of color and students older than 25. Many are pursuing degrees and training in STEM fields and other areas linked to the needs of employers. About 78 percent of the students graduating from public colleges and universities stay in Massachusetts, to the benefit of our communities across the state.



**A DIVERSE UNION
of EDUCATION
WORKERS**



Haverhill

Office of the City Auditor, Room 106
Phone: 978-374-2306 Fax: 978-373-8476
aperkins@cityofhaverhill.com

8.1

September 17, 2025

SEP 17 PM 2:46
HAVCITYCLERK

To The Honorable City Council

Attached are the revenue and expense reports through August 31, 2025.

At a high level, the general fund revenue report shows a year-over-year increase of 7.24%. However, this figure includes earnings from investments and funding from the Commonwealth designated for the School Department under the Student Opportunity Act. It's important to note that neither of these revenue sources is expected to continue growing at this accelerated rate. When we exclude these categories from the total general revenue, the adjusted year-over-year increase is 4.7%.

The general fund and enterprise operating budgets are currently meeting expectations.

I have been working closely with the city's new Treasurer/Collector, Lynn Spitalere, and the Deputy Auditor, Lesley Paolucci, on submitting the end-of-year reports to the Department of Revenue (DOR) in preparation for the certifications of free cash and retained earnings. We are also finalizing the 2024 single audit and have begun the external audit for fiscal year 2025. Additionally, we have welcomed several new members to our finance team and are currently interviewing candidates for both the Assistant Treasurer/Collector position and the newly created Payroll Supervisor role. With the addition of this new position, we aim to enhance oversight, efficiency, and controls in the city's payroll process.

Sincerely,

Angel A. Perkins, CGA, CFE
City Auditor & Chief Financial Officer

Year to Date Benchmark

16.67%

City Department	Budget (YTD)	Expended (YTD)	Unexpended (YTD)	% Expended
Council Salaries	\$ 234,279	\$ 39,865	\$ 194,414	17.02%
Council Expenses	\$ 8,100	\$ 352	\$ 7,749	4.34%
Mayor Salaries	\$ 432,688	\$ 78,364	\$ 354,324	18.11%
Mayor Expenses	\$ 210,250	\$ 15,280	\$ 194,970	7.27%
Auditor's Office Salaries	\$ 377,209	\$ 59,721	\$ 317,488	15.83%
Auditor's Office Expenses	\$ 139,381	\$ 1,158	\$ 138,223	0.83%
Assessors Salaries	\$ 297,788	\$ 51,551	\$ 246,237	17.31%
Assessors Expenses	\$ 179,215	\$ 10,355	\$ 168,860	5.78%
Treasurer/Collector Salaries	\$ 469,208	\$ 59,807	\$ 409,401	12.75%
Treasurer/Collector Expenses	\$ 251,300	\$ 18,115	\$ 233,185	7.21%
Constituent Services Salaries	\$ 109,442	\$ 18,843	\$ 90,599	17.22%
Constituent Services Expenses	\$ 15,500	\$ -	\$ 15,500	0.00%
Purchasing Salaries	\$ 100,547	\$ 17,521	\$ 83,026	17.43%
Purchasing Expenses	\$ 12,050	\$ 1,033	\$ 11,017	8.57%
Law Department Salaries	\$ 46,818	\$ 7,959	\$ 38,859	17.00%
Law Department Legal	\$ 536,000	\$ 30,389	\$ 505,611	5.67%
Human Resources Salaries	\$ 318,404	\$ 56,978	\$ 261,426	17.89%
Human Resources Expenses	\$ 147,550	\$ 23,550	\$ 124,000	15.96%
MIS Salaries	\$ 160,000	\$ 33,387	\$ 126,613	20.87%
MIS Expenses	\$ 638,134	\$ 220,488	\$ 417,646	34.55%
MIS Capital	\$ 50,000	\$ 15,457	\$ 34,543	30.91%
City Clerk Salaries	\$ 594,766	\$ 82,005	\$ 512,761	13.79%
City Clerk Expenses	\$ 171,380	\$ 30,971	\$ 140,409	18.07%
TOTAL GENERAL GOVERNMENT	\$ 5,500,009	\$ 873,146	\$ 4,626,863	15.9%
Building Maint. Salaries	\$ 79,127	\$ 4,537	\$ 74,590	5.73%
Building Maint. Expenses	\$ 298,500	\$ 10,521	\$ 287,979	3.52%
Inspectional & Health Services Salaries	\$ 1,205,528	\$ 217,737	\$ 987,791	18.06%
Inspectional & Health Services Expenses	\$ 46,950	\$ 5,894	\$ 41,056	12.55%
Public Health Salaries	\$ 247,498	\$ 43,327	\$ 204,171	17.51%
Public Health Expenses	\$ 9,000	\$ -	\$ 9,000	0.00%
Economic Development Salaries	\$ 291,516	\$ 37,406	\$ 254,110	12.83%
Economic Development Expenses	\$ 56,162	\$ 896	\$ 55,266	1.60%
TOTAL COMMUNITY & ECONOMIC DEVELOPMENT	\$ 2,234,281	\$ 320,318	\$ 1,913,963	14.3%
Police Salaries	\$ 14,399,407	\$ 2,293,044	\$ 12,106,363	15.92%
Police Expenses	\$ 1,813,628	\$ 122,832	\$ 1,690,796	6.77%
Police Capital	\$ 353,000	\$ 81,811	\$ 271,190	23.18%
Fire Salaries	\$ 13,774,479	\$ 2,247,709	\$ 11,526,770	16.32%
Fire Expenses	\$ 1,029,809	\$ 114,141	\$ 915,668	11.08%
Fire Capital	\$ 5,824	\$ -	\$ 5,824	0.00%

SEP 17 10:25 AM
HACKETT CLERK

Expense Report as of 8/31/2025

City Department	Budget (YTD)	Expended (YTD)	Unexpended (YTD)	% Expended
TOTAL PUBLIC SAFETY	\$ 31,376,147	\$ 4,859,536	\$ 26,516,611	15.49%
Whittier Regional School Assessment	\$ 8,704,320	\$ 2,176,080	\$ 6,528,240	25.00%
North Shore Essex Tech. Assessment	\$ 664,063		\$ 664,063	0.00%
School Other Funding	\$ 15,000	\$ -	\$ 15,000	0.00%
School Department	\$ 133,801,660	\$ 5,212,381	\$ 128,589,279	3.90%
TOTAL EDUCATION	\$ 143,185,043	\$ 7,388,461	\$ 135,796,582	5.2%
Public Works Administration Salaries	\$ 59,607	\$ 10,423	\$ 49,184	17.49%
Public Works Administration Expenses	\$ 44,804	\$ 1,249	\$ 43,555	2.79%
Public Works Highways Salaries	\$ 1,404,280	\$ 249,152	\$ 1,155,128	17.74%
Public Works Highways Expenses	\$ 840,655	\$ 79,781	\$ 760,874	9.49%
Public Works Highways Capital	\$ 112,000	\$ 844	\$ 111,156	0.75%
Public Works Solid Waste/Recycling Salaries	\$ 218,185	\$ 32,495	\$ 185,690	14.89%
Public Works Solid Waste/Recycling Expenses	\$ 5,985,808	\$ 63,379	\$ 5,922,429	1.06%
Public Works Parking Area Salaries	\$ 51,726	\$ 9,449	\$ 42,277	18.27%
Public Works Parking Area Expenses	\$ 369,101	\$ 21,084	\$ 348,017	5.71%
Public Works Street Marking Expenses	\$ 116,883	\$ 14,103	\$ 102,780	12.07%
Public Works Fleet Maint. Salaries	\$ 274,157	\$ 39,341	\$ 234,816	14.35%
Public Works Fleet Maint. Expenses	\$ 49,080	\$ 198	\$ 48,882	0.40%
Public Works Park Dept. Salaries	\$ 584,634	\$ 87,534	\$ 497,100	14.97%
Public Works Park Dept. Expenses	\$ 332,850	\$ 35,811	\$ 297,039	10.76%
Public Works Street Lighting Expenses	\$ 725,800	\$ 31,644	\$ 694,156	4.36%
Public Works Snow & Ice Removal Salaries	\$ 229,330	\$ 406	\$ 228,924	0.18%
Public Works Snow & Ice Removal Expenses	\$ 980,670	\$ 1,882	\$ 978,788	0.19%
TOTAL PUBLIC WORKS	\$ 12,379,570	\$ 678,773	\$ 11,700,797	5.5%
Citizens Center Salaries	\$ 303,619	\$ 64,410	\$ 239,209	21.21%
Citizens Center Expenses	\$ 188,010	\$ 27,662	\$ 160,348	14.71%
Veterans Services Salaries	\$ 115,545	\$ 20,224	\$ 95,321	17.50%
Veterans Services Expenses	\$ 558,000	\$ 73,975	\$ 484,025	13.26%
Senior Services Salaries	\$ 13,500	\$ 1,731	\$ 11,769	12.82%
Senior Services Expenses	\$ 2,700	\$ -	\$ 2,700	0.00%
Stadium Commission	\$ 59,000	\$ 7,232	\$ 51,768	12.26%
Recreation Salaries	\$ 193,129	\$ 91,676	\$ 101,453	47.47%
Recreation Expenses	\$ 85,000	\$ 3,865	\$ 81,135	4.55%
Public Library Salaries	\$ 1,665,862	\$ 262,752	\$ 1,403,110	15.77%
Public Library Expenses	\$ 293,585	\$ 97,527	\$ 196,058	33.22%
TOTAL HUMAN SERVICES	\$ 3,477,950	\$ 651,053	\$ 2,826,897	18.7%
Debt Service	\$ 9,491,008	\$ -	\$ 9,491,008	0.00%
TOTAL DEBT SERVICE	\$ 9,491,008	\$ -	\$ 9,491,008	0.0%
Retirement Fund	\$ 22,967,281	\$ 22,967,281	\$ -	100.00%
Unemployment Compensation	\$ 230,000	\$ 55,431	\$ 174,569	24.10%
Group Insurance	\$ 29,765,000	\$ 946,708	\$ 28,818,292	3.18%

Expense Report as of 8/31/2025

City Department	Budget (YTD)	Expended (YTD)	Unexpended (YTD)	% Expended
Payroll Taxes (FICA/Medicare)	\$ 2,103,796	\$ 176,846	\$ 1,926,950	✓ 8.41%
Workers Compensation	\$ 915,000	\$ 91,297	\$ 823,703	✓ 9.98%
Injured on Duty Claims	\$ 230,967	\$ 103,144	\$ 127,823	✗ 44.66%
Sick Leave Bank	\$ 126,000	\$ 79,612	\$ 46,388	✗ 63.18%
Vacational Buyback	\$ 55,000		\$ 55,000	✓ 0.00%
Retiree Medical Claims	\$ 121,000	\$ 4,190	\$ 116,810	✓ 3.46%
TOTAL EMPLOYEE BENEFITS	\$ 56,514,044	\$ 24,424,509	\$ 32,089,535	✗ 43.2%
General Liability Insurance	\$ 1,303,678	\$ 949,344	\$ 354,334	✗ 72.82%
Salary Reserve	\$ 1,080,000		\$ 1,080,000	✓ 0.00%
Budget Reserve	\$ 805,671	\$ 15,193	\$ 790,478	✓ 1.89%
State Assessments (Cherry Sheets)	\$ 9,524,223	\$ 1,603,514	\$ 7,920,709	✓ 16.84%
Reserve for Abatement & Exemption (Overlay)	\$ 250,000		\$ 250,000	✓ 0.00%
TOTAL OTHER CITY EXPENSES	\$ 12,963,572	\$ 2,568,051	\$ 10,395,521	✗ 19.8%
TOTAL GENERAL FUND	\$ 277,121,624	\$ 41,763,847	\$ 235,357,777	15.1%

Water Department Salaries	\$ 3,780,009	\$ 670,050	\$ 3,109,959	17.73%
Water Department Expenses	\$ 9,818,378	\$ 1,108,144	\$ 8,710,234	✓ 11.29%
Water Department Capital	\$ 300,000	\$ 5,900	\$ 294,100	✓ 1.97%
Water Department Indirect	\$ 248,494		\$ 248,494	✓ 0.00%
TOTAL WATER DEPARTMENT	\$ 14,146,881	\$ 1,784,094	\$ 12,362,787	✓ 12.6%
Wastewater Salaries	\$ 3,089,104	\$ 434,354	\$ 2,654,750	✓ 14.06%
Wastewater Expenses	\$ 11,894,907	\$ 1,352,655	\$ 10,542,252	✓ 11.37%
Wastewater Capital	\$ 1,127,000	\$ 189	\$ 1,126,811	✓ 0.02%
Wastewater Indirect	\$ 698,442	\$ -	\$ 698,442	✓ 0.00%
TOTAL WASTEWATER DEPARTMENT	\$ 16,809,453	\$ 1,787,198	\$ 15,022,255	✓ 10.6%

	FY '24 through 8/31/23	FY '25 through 8/31/24	FY '26 through 8/31/25	Trendline
TOTAL GENERAL GOVERNMENT	\$ 862,724	\$ 845,941	\$ 873,146	
TOTAL COMMUNITY & ECONOMIC DEVELOPMENT	\$ 318,581	\$ 316,357	\$ 320,318	
TOTAL PUBLIC SAFETY	\$ 4,361,258	\$ 4,584,182	\$ 4,859,536	
TOTAL EDUCATION	\$ 10,069,101	\$ 9,982,990	\$ 7,388,461	
TOTAL PUBLIC WORKS	\$ 1,363,550	\$ 1,022,396	\$ 678,773	
TOTAL HUMAN SERVICES	\$ 638,606	\$ 628,957	\$ 651,053	
TOTAL DEBT SERVICE	\$ 242,448	\$ 238,808	\$ -	
TOTAL EMPLOYEE BENEFITS	\$ 22,521,343	\$ 23,531,291	\$ 24,424,509	
TOTAL OTHER CITY EXPENSES	\$ 2,037,580	\$ 627,142	\$ 2,568,051	
TOTAL CITY EXPENDITURES	\$ 42,415,191	\$ 41,778,064	\$ 41,763,847	
TOTAL WATER DEPARTMENT	\$ 7,104,739	\$ 3,974,765	\$ 1,784,094	
TOTAL WASTEWATER DEPARTMENT	\$ 3,156,184	\$ 2,969,386	\$ 1,787,198	

Expense Report as of 8/31/2025

City of Haverhill
Revenue Report
Period Ending 8/31/25

SEP 17 PM 2:46
HAVCITYCLERK

Year to Year Comparison

Revenue Source	8/31/2023	8/31/2024	8/31/2025	FY 25 to 26 % Change	FY 25 to 26 \$ Change	FY 24-26 Trendline
Real Estate & Pers Property	\$ 30,282,344	\$ 31,573,093	\$ 34,356,865	8.82% ↑	\$ 2,783,772	
Motor Vehicle Excise	\$ 675,454	\$ 800,471	\$ 740,037	-7.55% ↓	\$ (60,434)	
Meals Excise				⇒	\$ -	
Hotel/ Room Excise				⇒	\$ -	
Boat & Other Excise	\$ 1,405	\$ 399	\$ 1,134	184.11% ↑	\$ 735	
Cannabis Excise				⇒	\$ -	
Waste Disposal Facility Program	\$ 755,037	\$ 509,367	\$ 235,977	-53.67% ↓	\$ (273,390)	
PILOT	\$ 18,916	\$ 16,249		-100.00% ↓	\$ (16,249)	
Penalties & Interest	\$ 174,738	\$ 110,082	\$ 173,377	57.50% ↑	\$ 63,295	
Fees	\$ 133,803	\$ 182,813	\$ 194,969	6.65% ↑	\$ 12,156	
Rentals	\$ 24,179	\$ 37,333	\$ 17,916	-52.01% ↓	\$ (19,417)	
Departmental Revenue	\$ 220,012	\$ 205,167	\$ (23,764)	-111.58% ↓	\$ (228,931)	
License & Permits	\$ 309,676	\$ 328,366	\$ 253,122	-22.91% ↓	\$ (75,244)	
Fines & Forefits	\$ 157,404	\$ 106,002	\$ 94,099	-11.23% ↓	\$ (11,903)	
Investments	\$ 297,049	\$ 418,536	\$ 986,429	135.69% ↑	\$ 567,893	
Medicaid Reimbursement				⇒	\$ -	
*Misc Revenue	\$ 63,955	\$ 66,985	\$ 6,156	-90.81% ↓	\$ (60,830)	
Comm of MA Cherry Sheet	\$ 15,966,977	\$ 16,978,658	\$ 18,015,321	6.11% ↑	\$ 1,036,663	
Wastewater Enterprise Fund	\$ 2,206,944	\$ 2,342,512	\$ 1,951,510	-16.69% ↓	\$ (391,002)	
Water Enterprise Fund	\$ 1,820,352	\$ 1,918,250	\$ 2,008,654	4.71% ↑	\$ 90,404	
Other GF Rev - Trnsf From Sp Rev & Free Cash				⇒	\$ -	
Total	\$ 53,108,245	\$ 55,594,283	\$ 59,011,802	6.15% ↑	\$ 3,417,519	
Total without Enterprise Funds	\$ 49,080,949	\$ 51,333,521	\$ 55,051,638	7.24% ↑	\$ 3,718,117	
			7.24%			

Prepared by Angel A. Perkins, Chief Financial Officer

City of Haverhill
Revenue Report
Period Ending 8/31/25

Collections as a Percent of Budget

Revenue Source	FY 26 Estimated Revenue	FY 26 Actual Revenue Collections	\$ Surplus / (Deficit)	YTD Benchmark	Actual Revenue Benchmark
Real Estate & Pers Property	\$ 140,323,000	\$ 34,356,865	\$ (105,966,135)	25%	24.5%
Motor Vehicle Excise	\$ 8,391,880	\$ 740,037	\$ (7,651,843)	8%	8.8%
Meals Excise	\$ 1,259,948	\$ -	\$ (1,259,948)	0%	0.0%
Hotel/ Room Excise	\$ 309,000	\$ -	\$ (309,000)	0%	0.0%
Boat & Other Excise	\$ 9,476	\$ 1,134	\$ (8,342)	0%	12.0%
Cannabis Excise	\$ 1,133,040	\$ -	\$ (1,133,040)	0%	0.0%
Waste Disposal Facility Program	\$ 2,740,175	\$ 235,977	\$ (2,504,198)	17%	8.6%
PILOT	\$ 274,189	\$ -	\$ (274,189)	0%	0.0%
Penalties & Interest	\$ 742,361	\$ 173,377	\$ (568,984)	17%	23.4%
Fees	\$ 962,671	\$ 194,969	\$ (767,702)	17%	20.3%
Rentals	\$ 198,450	\$ 17,916	\$ (180,534)	17%	9.0%
Departmental Revenue	\$ 658,253	\$ (23,764)	\$ (682,017)	17%	-3.6%
License & Permits	\$ 2,522,301	\$ 253,122	\$ (2,269,179)	17%	10.0%
Fines & Forefits	\$ 628,275	\$ 94,099	\$ (534,176)	17%	15.0%
Investments	\$ 1,976,990	\$ 986,429	\$ (990,561)	17%	49.9%
Medicaid Reimbursement	\$ 735,000	\$ -	\$ (735,000)	0%	0.0%
*Misc Revenue		\$ 6,156	\$ 6,156	17%	100.0%
Comm of MA Cherry Sheet	\$ 108,005,748	\$ 18,015,321	\$ (89,990,427)	17%	16.7%
Wastewater Enterprise Fund	\$ 16,809,453	\$ 1,951,510	\$ (14,857,943)	8%	11.6%
Water Enterprise Fund	\$ 14,146,881	\$ 2,008,654	\$ (12,138,227)	8%	14.2%
Other GF Rev - Trnsf From Sp Rev & Free Cash	\$ 6,250,867	\$ -	\$ (6,250,867)	0%	0.0%
Total	\$ 308,077,958	\$ 59,011,802	\$ (249,066,156)	19%	19.2%
<i>Estimated General Fund Revenue</i>	<i>\$ 277,121,624</i>	<i>\$ 55,051,638</i>	<i>\$ (222,069,986)</i>	<i>20%</i>	<i>19.9%</i>
<i>Estimated Local Receipts</i>	<i>\$ 22,542,009</i>	<i>\$ 2,679,451</i>	<i>\$ (19,862,558)</i>	<i>11%</i>	<i>11.9%</i>

Prepared by Angel A. Perkins, Chief Financial Officer

Important: Please Read Before Starting Your Application

Applicant Information

What is Your Role in This Process?

Attorney/Agent

Applicant Business/Firm Phone

508-480-9900

Applicant Business/Firm City

Southborough

Applicant Business/Firm Zip

01772

Client Business Name

Kayrouz Realty LLC

Client Email

johnny@kayrouzrealty.com

Client City

Westborough

Client Zip

01581

Client Business Structure

Limited Liability Corporation (LLC)

Applicant Business/Firm Name

Bohler Engineering MA, LLC

Applicant Business/Firm Address

352 Turnpike Road

Applicant Business/Firm State

MA

Client Name

Johnny Kayrouz

Client Phone

508-366-1529

Client Address

16 East Main Street

Client State

MA

Client County

Worcester

Property Information

Proposed Housing Plan Name

N/A

How Long Owned by Current Owner?

N/A

Lot Dimension(s)

131,587 sf

Zoning District Where Property Located

CH - Commercial Highway

Proposed Street Name(s)

N/A

Type of Dwelling(s) Planned in Project

Single Family

Registry Plat Number, Block & Lot

465-4-5

Deed Recorded in Essex South Registry: Block Number

465-4-5

Deed Recorded in Essex South Registry: Page

465-4-5

IF YES, How Many Lots?

1

Thoroughly Describe the Reason(s) for thre Special Permit

Flammable Storage License

Property Description

The site currently encompasses a landscape supply business located west of Amesbury Road and south of Wannalancet Road.

Current Property Use

Agricultural

TOTAL Number of Parking Spaces Planned

9

Does the Property Have Multiple Lots?

No

IF YES, What Is/Are the Map, Block Lot (MBL) Number(s)?

N/A

TOTAL Number of Units Planned

0

Planned Lot Use**Lot Number**

Lot 1

Lot Dimensions

131,587 SF

Size of Existing Building(s) on Lot

2,066 SF; 1,000 SF; 900 SF; 440 SF

Size of Proposed Building(s)

1,482 SF

Extent of Proposed Alterations

New Construction: Commercial

Types of Units Planned on Lot

Rental

Lot Plat Number, Bock, Lot

Map 465, Block 4, Lot 5B

Number of Existing Buildings on Lot

4

Number of Buildings Planned for Lot

1

Number of Families to be Accommodated

0

IF OTHER ALTERATIONS, Please Describe

--

Number of Units Planned on Lot

0

Special Circumstances**Building Coverage**

--

Front Yard Setback

--

Rear Yard Setback

--

Lot Depth

--

Dimensional Variance

--

Side Yard Setback

--

Lot Frontage

--

Lot Area

--

Building Height

--

Open Space

--

Sign Size

--

Other

true

Floor Area Ratio

--

Parking

--

Use

--

IF OTHER, Please Describe

flammable storage license

Hearing Waiver

Agrees

No

Agreement & Signature

Agrees

true

PLEASE READ

September 19, 2025



City of Haverhill, MA

City Clerk Review - Hearing Dates Set

Record No.CCSP-22-4

Status Completed

Became Active July 3, 2025

Assignee Kaitlin Wright

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 3, 2025 at 3:57 pm

Land court issued a decision in March 2023 stating that applicant must complete traffic study, among other items, and once received, city must reopen hearing. Documents received in office as of 7/3/3035. Preparation to re-open hearing in progress. Hearing date tentatively set for September 23rd, will be announced July 22nd.

Step Activity

Kaitlin Wright added this record step

07/03/2025 at 3:55 pm

Kaitlin Wright approved this step

07/03/2025 at 3:57 pm



City of Haverhill, MA

September 19, 2025

City Council Admin Notified

Record No.CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Lori Robertson

Due Date None

Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:51 am

Land court issued a decision in March 2023 stating that applicant must complete traffic study, among other items, and once received, city must reopen hearing. Documents received in office as of 7/3/3035. Preparation to re-open hearing in progress. Hearing date tentatively set for September 23rd, will be announced July 22nd.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:51 am

Lori Robertson approved this step

07/08/2025 at 8:12 am



City of Haverhill, MA

September 19, 2025

Hearing Date Announced Before Council

Record No.CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Kaitlin Wright

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:51 am

Will be announced on July 22nd.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:51 am

Kaitlin Wright approved this step

08/13/2025 at 11:48 am



City of Haverhill, MA

September 19, 2025

Assessor for Abutter's List

Record No.CCSP-22-4

Status Completed

Became Active July 3, 2025

Assignee Chris Webb

Due Date None

Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 3, 2025 at 3:58 pm

Chris, please prepare an abutters list for 298 Amesbury Rd. This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Chris Webb Internal

July 7, 2025 at 9:07 am

Please see the new attached abutters and mailing lists for 298 Amesbury Rd 465-4-5. This is NOT agricultural land.

Chris Webb

July 7, 2025 at 9:10 am

Please see the new attached abutters and mailing lists for 298 Amesbury Rd 465-4-5. This is NOT agricultural land.

Kaitlin Wright Internal

July 7, 2025 at 2:14 pm

Thank you, Chris!

September 19, 2025



City of Haverhill, MA

First Ad Placement

Record No. CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Kaitlin Wright

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 2:10 pm

The advertisement will be printed on September 4 and 11th in the Gazette.
We will bill you for the advertisement following the advertisement.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:56 am

Kaitlin Wright reassigned this step from Maria
Bevilacqua to Kaitlin Wright

07/07/2025 at 2:10 pm

Kaitlin Wright approved this step

07/07/2025 at 2:10 pm



City of Haverhill, MA

September 19, 2025

Water Bill Check

Record No.CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Elizabeth Remmes

Due Date None



Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

No comments yet.

Step Activity

- Kaitlin Wright added this record step07/07/2025 at 9:48 am
- Elizabeth Remmes approved this step07/07/2025 at 12:17 pm

September 19, 2025



Tax Check

Record No. CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Lynn Spitalere

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

No comments yet.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:48 am

Lynn Spitalere approved this step

07/07/2025 at 4:17 pm

September 19, 2025



Conservation Department Review

Record No. CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Robert Moore

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:49 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Robert Moore  Internal

July 7, 2025 at 7:44 pm

1 intentions for back of lot. Mapped habitat. 2 why so many pumps for so few trips per day 3 should traffic study include new Whittier Tech at NECC Campus 4 was a spill prevention plan and/or emergency response plan provide to detail water supply protection measures in the event of a spill

Robert Moore

July 9, 2025 at 9:25 am

Project remains outside the jurisdiction of the Conservation Commission. However, I noted the following during my review of the new materials: 1. The rear of the lot (beyond the extent of the fueling station) is currently mapped by the Commonwealth as containing Priority Habitats of Rare Species. The applicant is advised to seek project approval from the MA Natural Heritage and Endangered Species Program as part of project permitting. 2. The traffic study projects what appears to be a fairly low number of weekday visits (53 trucks). How does the size of the proposed station (5 pumps, 40,000 gallons) compare to industry standards for the projected demand? 3. Since the 2023 traffic study, the construction of a new Whittier Tech school on the campus of NECC has become more likely. Should the study be updated to include student and staff projections? 4. The stormwater system was designed to prevent discharge to the Millvale watershed during routine operations. However, was a spill prevention plan and/or emergency response plan provided to detail water supply protection measures during control of an incident?

Kaitlin Wright

July 9, 2025 at 9:58 am

Thank you, @Robert Moore for reviewing and commenting so quickly!

Kaitlin Wright

July 9, 2025 at 10:18 am

@Robert Moore should permit be contingent upon approval from the MA Natural Heritage and Endangered Species Program?

Robert Moore

July 9, 2025 at 10:45 am

@Kaitlin Wright Sure, they could make that a condition. Perhaps something like "The applicant shall not perform any work within Priority Habitat #2140, as mapped by the MA Natural Heritage and Endangered Species Program, without first providing the Conservation Department with written approval from the Program for said work". I typically withhold approval of the Development Review until applicants provide NHESP approval. Much of the

proposed project is outside the mapped habitat. But anything they do to grade out and stabilize the western end of the lot (i.e., beyond the truck parking area) will require ok from that state agency. This map shows the back quarter of the site within Priority Habitat.

Kaitlin Wright

July 9, 2025 at 11:04 am

Thank you, Rob!

Kaitlin Wright

September 12, 2025 at 8:46 am

This is coming before Council on September 23 - if you have anything further to add, please do so as soon as possible!

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:48 am



City of Haverhill, MA

September 19, 2025

Fire1 Department Review

Record No.CCSP-22-4

Status Skipped

Became Active July 7, 2025

Assignee Eric Tarpy

Due Date None

Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:49 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Kaitlin Wright

July 9, 2025 at 9:57 am

@Eric Tarpy Please note that the original application filed in 2022 sought 32,000 gallons of diesel on site. The most recently submitted document by the applicant states that the applicant is seeking two 20,000 gallons of UST for diesel and one 2,500 gallon for DEF, which would total 42,500 gallons.

Eric Tarpy

July 9, 2025 at 10:41 am

Fire Dept has reviewed the peer review Document. Applicant needs to amend license application to reflect new quantities

Kaitlin Wright

July 9, 2025 at 11:04 am

Thank you, Eric. I have contacted the applicant regarding amending the application.

Eric Tarpy 🔒 Internal

August 21, 2025 at 2:33 pm

@Kaitlin Wright Hi, did applicant ever amend or provide new application with changes stated above?

Kaitlin Wright 🔒 Internal

August 21, 2025 at 2:39 pm

No, I do not believe we have received an update application. I will contact the applicant.

Kaitlin Wright 🔒 Internal

August 28, 2025 at 3:32 pm

@Eric Tarpy updated app has been uploaded.



City of Haverhill, MA

September 19, 2025

Fire2 Department Review

Record No.CCSP-22-4

Status Completed**Became Active** July 7, 2025**Assignee** Brian Belfiore**Due Date** None



Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright July 7, 2025 at 9:49 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Brian Belfiore  Internal August 28, 2025 at 9:03 am

@Kaitlin Wright we need the following from the applicant: -Updated written project summary to include the number of tanks and the quantities and type of product in each tank. -Updated site plan showing the number of tanks, quantities and type of product in each tank. -Updated license application reflecting the updated amount of diesel and DEF being stored.

Brian Belfiore August 28, 2025 at 9:05 am

we need the following: -Updated written project summary to include the number of tanks and the quantities and type of product in each tank. - Updated site plan showing the number of tanks, quantities and type of product in each tank. -Updated license application reflecting the updated amount of diesel and DEF being stored.

Kaitlin Wright August 28, 2025 at 3:31 pm

Brian, new application has been uploaded.

Brian Belfiore  Internal August 28, 2025 at 4:11 pm

@Kaitlin Wright I was looking at your comment to D/C Tarpy on 7/9/25 that the applicant is seeking two 20,000 gallons of UST for diesel and one 2,500 gallon for DEF, which would total 42,500 gallons. Can we confirm that the applicant is only applying for 20,000 gallons of diesel and 2,500 of DEF.

Kaitlin Wright  Internal August 28, 2025 at 4:13 pm

Brian Belfiore September 9, 2025 at 4:04 pm

Applicant has submitted all required documents.



City of Haverhill, MA

September 19, 2025

Building Inspector Review

Record No.CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Tom Bridgewater

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:56 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Tom Bridgewater

July 9, 2025 at 2:27 pm

Please contact the Engineering Dept for a PPR to come in to discuss for a refresh 978-374-2335

Kaitlin Wright

September 12, 2025 at 8:46 am

This is coming before Council on September 23 – if you have anything further to add, please do so as soon as possible!

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:56 am



City of Haverhill, MA

September 19, 2025

Storm Water Review

Record No.CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Robert Moore

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:56 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Robert Moore

July 9, 2025 at 9:26 am

see Conservation review comments

Robert Moore

September 10, 2025 at 4:26 pm

Hi Don, could you please give me a quick recap of the changes made on the current plan submittal. Will drainage design remain unchanged?

Kaitlin Wright

September 12, 2025 at 8:46 am

This is coming before Council on September 23 - if you have anything further to add, please do so as soon as possible!



City of Haverhill, MA

September 19, 2025

DPW Review

Record No. CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Robert Kimball

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:56 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:56 am

Robert Kimball approved this step

07/07/2025 at 2:37 pm



City of Haverhill, MA

September 19, 2025

Engineering Department Review

Record No.CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee John Pettis

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:56 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

John Pettis

July 15, 2025 at 1:06 pm

It was our understanding that someone was going to come to today's Development Review meeting at City Hall, but no one came. An updated understanding of where the project stands would be helpful to City Departments being asked to give updated comments. Some initial comments from various City staff: Is Septic still proposed? Clearly show on updated plan. What is the location of the 495 ramps in relation to project driveways. Clearly show on updated plan so can ensure not a jog that leads to extended time to negotiate across Rt 110. Are trucks allowed to stay on-site overnight? Clarify fuels to be stored on-site.

Donald Borenstein

July 15, 2025 at 3:04 pm

John, Was not aware you were expecting the project team for a meeting today. Would be happy to come to City Hall and answer your questions and update current status of the project. What are the upcoming dates/times you'd like to see us? I'll coordinate with the project team. Thanks. -Don Borenstein 978-475-4488

John Pettis

July 16, 2025 at 11:28 am

I was not told that project team was coming in, only that Steve Eddy was coming to give project update. We typically meet every Tuesday starting at 930 and slot people as they make request. Let me know what Tue works for you guys and we will plan on it. You can also add others as "Guests" if you want others to be able to see the portal/add attachments etc.

Donald Borenstein

August 14, 2025 at 4:23 pm

John, The Project Team is targeting the Development Review meeting on Tuesday, September 9th. Would you please confirm whether that date is available and confirm the time and location? Thanks, Don Borenstein 978-269-6767 (phone and text)

Donald Borenstein

September 2, 2025 at 3:49 pm

The project team is scheduled to attend the City's Development Review meeting at 9:30am on Sept 9th. Would you please confirm the room location for the meeting? Thanks

John Pettis

September 2, 2025 at 4:03 pm

City Hall, 4 Summer St, 3rd Floor, Rm 300.

Donald Borenstein

September 8, 2025 at 1:52 pm

Our civil engineer, Luke DiStefano , has a personal matter that will have him out of town tomorrow. He'd like to join us by video if possible. If you are already hosting Zoom or other video access to the meeting, could you send him an invitation? Otherwise, I'll bring him into the in-person meeting on my laptop using my own Zoom account. Thanks.

Kaitlin Wright

September 12, 2025 at 8:46 am

This is coming before Council on September 23 - if you have anything further to add, please do so as soon as possible!

John Pettis

September 15, 2025 at 4:13 pm

I have no objection to the granting of the Special Permit, but note below Conditions that were agreed upon in Responses to my comments, within Attachment from Oct 2024:Comment 1. I continue to be concerned with the proposed curb cut but will defer to MassDOT since the location is within the State Highway layout. Regarding the Traffic Report, the number of trips generated by the site seems very low. It is hard to fathom how the Site can be financially successful with only 12 customers in the AM peak, 6 customers in the PM peak and 5 in the Saturday midday peak. Would the project commit to a follow up study (6 months after construction) to confirm that the traffic generated by the site is consistent with the traffic study assumptions. If volumes are higher, there is a potential for turn lanes to be warranted along Rt 110. Response: Comment acknowledged. Applicant is willing to agree to a follow-up study to review traffic impacts. Applicant requests, however, that the exact purview of this study be agreed to prior to construction and that the study area be limited to impacts associated with the proposed retail petroleum facility only. Comment 2. Please forward me a copy of the MassDOT permit once obtained. Response: Comment acknowledged. Applicant agrees to forward a copy of the MassDOT Permit to Access a State Highway once received.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:56 am

John Pettis approved this step

09/15/2025 at 4:13 pm



City of Haverhill, MA

September 19, 2025

Water/Wastewater Review

Record No.CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Robert Ward

Due Date None

Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:56 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Kaitlin Wright

August 28, 2025 at 3:32 pm

This item is returning to council on September 23 due to a land court decision. See most recently uploaded document for more information.
Please review and leave appropriate department comments.

Kaitlin Wright

September 12, 2025 at 8:46 am

This is coming before Council on September 23 - if you have anything further to add, please do so as soon as possible!



City of Haverhill, MA

September 19, 2025

Water Supply Review

Record No. CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Robert Ward

Due Date None



Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:57 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Kaitlin Wright

August 28, 2025 at 3:33 pm

This item is returning to council on September 23 due to a land court decision. See most recently uploaded document for more information. Please review and leave appropriate department comments.

Kaitlin Wright

September 12, 2025 at 8:46 am

This is coming before Council on September 23 – if you have anything further to add, please do so as soon as possible!



City of Haverhill, MA

September 19, 2025

Police Department Review

Record No.CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Kevin Lynch

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 9:57 am

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Kaitlin Wright

August 28, 2025 at 3:33 pm

This item is returning to council on September 23 due to a land court decision. See most recently uploaded document for more information. Please review and leave appropriate department comments.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:56 am

Kevin Lynch approved this step

09/09/2025 at 3:35 pm



City of Haverhill, MA

September 19, 2025

Health Department Review

Record No.CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Mark Tolman

Due Date None





Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 12:58 pm

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Kaitlin Wright

August 28, 2025 at 3:33 pm

This item is returning to council on September 23 due to a land court decision. See most recently uploaded document for more information.
Please review and leave appropriate department comments.

Kaitlin Wright

September 12, 2025 at 8:46 am

This is coming before Council on September 23 – if you have anything further to add, please do so as soon as possible!



City of Haverhill, MA

September 19, 2025

School Department Review

Record No.CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Margaret Marotta

Due Date None

Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 12:58 pm

This item is returning to council due to a land court decision. See most recently uploaded document for more information.

Kaitlin Wright

August 28, 2025 at 3:33 pm

This item is returning to council on September 23 due to a land court decision. See most recently uploaded document for more information. Please review and leave appropriate department comments.

Kaitlin Wright

September 12, 2025 at 8:47 am

This is coming before Council on September 23 - if you have anything further to add, please do so as soon as possible!



City of Haverhill, MA

September 19, 2025

Second Ad Placement

Record No.CCSP-22-4

Status Completed

Became Active July 7, 2025

Assignee Maria Bevilacqua

Due Date None

Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant

 Donald Borenstein
 978-475-4488
 don@jblclaw.com
 12 Chestnut St.
Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 2:10 pm

The advertisement will be printed on September 4 and 11th in the Gazette.
We will bill you for the advertisement following the advertisement.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:56 am

Kaitlin Wright approved this step

07/07/2025 at 2:10 pm



City of Haverhill, MA

September 19, 2025

Abutter Notification

Record No.CCSP-22-4

Status Active

Became Active July 7, 2025

Assignee Kaitlin Wright

Due Date None

Primary Location

298 AMESBURY RD
Haverhill, MA 01830

Owner

EDDY STEVEN J
SEVEN SISTER RD 71 HAVERHILL, MA
01830

Applicant



Donald Borenstein



978-475-4488



@ don@jblclaw.com



12 Chestnut St.

Andover, Massachusetts 01810

Messages

Kaitlin Wright

July 7, 2025 at 2:10 pm

Abutter notification for fuel storage applications are the applicant's responsibility. I have uploaded a copy of the advertisement to the portal and you may use the advertisement to send your abutter notification. The advertisement will be printed on September 4 and 11th in the Gazette. Please be sure to send abutter notification on or around then. A list of abutters has also been attached. Please reach out with questions.

Kaitlin Wright

July 24, 2025 at 4:41 pm

Updated advertisement uploaded to the portal. Abutter notification for fuel storage applications are the applicant's responsibility. You may use the advertisement to send your abutter notification. The advertisement will be printed on September 4 and 11th in the Gazette. Please be sure to send abutter notification on or around then. A list of abutters has also been attached. Prior to the hearing, the certified mail receipts will need to be submitted to our office. Please reach out with questions.

Kaitlin Wright

August 13, 2025 at 12:34 pm

As a reminder – Abutter notification for fuel storage applications are the applicant's responsibility. You may use the advertisement to send your abutter notification. The advertisement will be printed on September 4 and 11th in the Gazette. Please be sure to send abutter notification on or around then. A list of abutters has also been attached. Prior to the hearing, the certified mail receipts will need to be submitted to our office. Please reach out with questions.

Kaitlin Wright

August 28, 2025 at 3:33 pm

As a reminder – Abutter notification for fuel storage applications are the applicant's responsibility. You may use the advertisement to send your abutter notification. The advertisement will be printed on September 4 and 11th in the Gazette. Please be sure to send abutter notification on or around then. A list of abutters has also been attached. Prior to the hearing, the certified mail receipts will need to be submitted to our office. Please reach out with questions.

Kaitlin Wright

September 12, 2025 at 8:47 am

Good morning, have the abutter notifications gone out?

Kaitlin Wright

September 15, 2025 at 1:06 pm

I see you have uploaded proof of the abutter notification. Please note that the physical green cards for certified mail will need to be turned into our office. Please do so sooner rather than later and it must be turned in prior to

the hearing.

Donald Borenstein

September 18, 2025 at 11:26 am

The applicant team has presentation slides that we'd like to display during the Council hearing. Should those just be submitted through the portal? If not, how are they best provided so they can be accessed during the meeting? By when must they be submitted so they can be displayed at the meeting? Thank you.

Kaitlin Wright

September 18, 2025 at 11:43 am

Please submit them to me via email no later than Friday 9/19/ at 9 AM. Also, please provide the green cards from the certified mail - I need the physical cards brought to our office.

Step Activity

Kaitlin Wright added this record step

07/07/2025 at 9:56 am

Kaitlin Wright approved this step

07/07/2025 at 2:10 pm

Kaitlin Wright reactivated this step

07/07/2025 at 2:10 pm

**Request to Reopen Hearing; Flammable Storage License Application on remand from the
Land Court
Kayrouz Petroleum, LLC; 298 Amesbury Road, Haverhill, MA
City Council Special Permit
Number CCSP-22-4**

AFFIDAVIT OF NOTICE OF SERVICE TO ABUTTERS

I, Donald F. Borenstein, do hereby depose and state the following:

1. Kayrouz Petroleum, LLC is the Applicant for the project at 298 Amesbury Road, Haverhill, MA, as detailed in the remand application filed with the Haverhill City Council on July 1, 2025.
2. According to the requirements of the City of Haverhill City Council, notice of the public hearing scheduled for September 23, 2025, was required.
3. On September 9, 2025, notice of the public hearing was sent via Certified Mail, Return Receipt Requested to the abutters of record. A true and accurate copy of the Abutters List is attached as Exhibit A.
4. A true and accurate copy of the Notice is attached as Exhibit B.
5. A true and accurate copy of the certified mail return receipt cards as well as date-stamped confirmation from the USPS are attached as Exhibit C.

Signed on this 11th day of September 2025.

/s/ Donald F. Borenstein

Donald F. Borenstein, Esq., BBO #566810
don@jblclaw.com
JOHNSON & BORENSTEIN, LLC
12 Chestnut Street
Andover, MA 01810
Tel: 978-475-4488
Fax: 978-475-6703

A

	A	B	C	D	E	F	G	H	I	J
1	ParcelID	StreetNum	StreetName	LocCity	Owner1	BillingAddress	City	State	Zip	
2	428-628-1	23	WANNALANCET RD	HAVERHILL	MATT, LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
3	428-628-10	316	AMESBURY RD	HAVERHILL	GELINAS PHILLIP P	316 AMESBURY RD	HAVERHILL	MA	01830	
4	428-628-13A	330	AMESBURY RD	HAVERHILL	MASS PROP INVES, LLC	P.O. BOX 1115	HAVERHILL	MA	01830	
5	428-628-13C		WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
6	428-628-2	35	WANNALANCET RD	HAVERHILL	35 WANNALANCET ROAD REALTY TR	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
7	428-628-3		WANNALANCET RD	HAVERHILL	32 WANNALANCET ROAD REALTY TR	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
8	428-628-4		WANNALANCET RD	HAVERHILL	WHITMAN ARTHUR H	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
9	428-628-5		WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
10	428-628-6		WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
11	441-1-14C	253	AMESBURY RD	HAVERHILL	SANCHEZ OSCAR M-ETUX	17 SANDLER TER	HAVERHILL	MA	01832	
12	441-1-14D	255	AMESBURY RD	HAVERHILL	KEENAN JAMES B ETUX	255 AMESBURY RD	HAVERHILL	MA	01830	
13	441-1-14E	25	ELLIOTT ST	HAVERHILL	PEPE MICHELE M	25 ELLIOTT ST	HAVERHILL	MA	01830	
14	441-1-17		AMESBURY RD	HAVERHILL	LABRANCHE VICTOR P	30 SHATTUCK ST	HAVERHILL	MA	01830	
15	459-2-1	26	ELLIOTT ST	HAVERHILL	MENNA JOYCE F	26 ELLIOTT STREET	HAVERHILL	MA	01830	
16	465-4-5	298	AMESBURY RD	HAVERHILL	EDDY STEVEN J	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
17	465-4-5B	254	AMESBURY RD	HAVERHILL	KRE-BSL HUSKY HAVERHILL LLC	PO BOX 92129	SOUTHLAKE	TX	76092	
18	465-4-5B1		AMESBURY RD	HAVERHILL	NORTHERN ESSEX REALTY TRUST	198 SACO AVE	OLD ORCHARD BEACH	ME	04064	

B



Haverhill

City Clerk's Office, Room 118
Phone: 978-374-2312 Fax: 978-373-8490
cityclerk@haverhillma.gov

July 23, 2025

PUBLIC HEARING

City Council Chambers, City Hall, Room 202, 4 Summer st

Notice is hereby given that the following application for a license to store, keep, and use INFLAMMABLE LIQUIDS has been made to the City Clerk and the City Council will conduct a hearing for all parties interested, in a hybrid meeting (virtual/in person), on Tuesday, September 23, 2025; at 7:00 PM. This notice is given under the provisions of Chapter 148 of the General Laws - Steven J Eddy; requesting to store 20,000 gallons of diesel fuel and 2,500 gallons of Diesel Exhaust Fluid at proposed fueling station to be stored underground at 298 Amesbury Rd.

(Residents who are interested in commenting on this item can either (1) Attend in person (Council Chambers, Room 202) or (2) Attend remotely using the link provided on the public meeting calendar on the City's website.)

Description of area, maps and plans are on file in the City Clerk's Office.

Advertise: September 4 & September 11, 2025
Haverhill Gazette

Kaitlin M, Wright, CMC
City Clerk

C

Name and Address of Sender		Check type of mail or service:		Postage		Fee		Handling Charge		Actual Value if Registered		Insured Value		Due Sender if COD		DC Fee		SC Fee		SH Fee		RD Fee		RR Fee	
1. <u>9589 07105270 1159 9260 71</u> <u>2022-0393</u> <u>2. 9589 07105270 1159 9260 88</u>		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation		428-628-1 MATT, LLC 73 SEVEN SISTER RD HAVERHILL, MA 01830 contract.		71		5.30																4.40	
3. _____ 4. <u>9589 07105270 1159 9260 95</u> <u>2022-0393</u> <u>2. 9589 07105270 1159 9260 88</u>		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation		428-628-10 GELINAS PHILLIP P 316 AMESBURY RD HAVERHILL, MA 01830																					
5. _____ 6. <u>9589 07105270 1159 9260 101</u> <u>2022-0393</u> <u>2. 9589 07105270 1159 9260 88</u>		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation		428-628-13C SDSE EAST BROADWAY LLC 73 SEVEN SISTER RD HAVERHILL, MA 01830																					
7. _____ 8. <u>9589 07105270 1159 9260 118</u> <u>2022-0393</u> <u>2. 9589 07105270 1159 9260 88</u>		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation		428-628-2 35 WANNALANCT ROAD REALTY TR 73 SEVEN SISTER RD HAVERHILL, MA 01830																					

See Privacy Act Statement on Reverse

Complete by Typewriter, Ink, or Ball Point Pen

Name and Address of Sender		Check type of mail or service:		Recorded Delivery (International)		Postmark and Date of Receipt		Affix Stamp Here (If issued as a certificate of mailing, or for additional copies of this bill)	
Article Number		Address (Name, Street, City, State, & ZIP Code)		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation		Postage Fee Handling Charge Actual Value if Registered Insured Value Due Sender if COD DC Fee SC Fee SH Fee RD Fee RR Fee	
1. 9589 07105270 1159 9261 25	428-628-3	32 WANNALANCET ROAD REALTY TR 73 SEVEN SISTER RD HAVERHILL, MA 01830		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation		Postage: 74 Fee: 530 Handling Charge: 4.40	
2. 2022-0393	428-628-4	WHITMAN ARTHUR H 73 SEVEN SISTER RD HAVERHILL, MA 01830		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation			
3. 9589 07105270 1159 9261 32	428-628-5	SDSE EAST BROADWAY LLC 73 SEVEN SISTER RD HAVERHILL, MA 01830		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation			
4. 9589 07105270 1159 9261 49	428-628-6	SDSE EAST BROADWAY LLC 73 SEVEN SISTER RD HAVERHILL, MA 01830		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation			
5. 9589 07105270 1159 9261 56	441-1-14C	SANCHEZ OSCAR M-ETUX 17 SANDLER TER HAVERHILL, MA 01832		<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation			
6. 9589 07105270 1159 9261 63				<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation			
7. 9589 07105270 1159 9261 63				<input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Delivery Confirmation <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured		<input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation			
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Name and Address of Sender		Check type of mail or service:		Affix Stamp Here (If issued as a certificate of mailing, or for additional copies of this bill)		Postmark and Date of Receipt		Handling Charge		Actual Value if Registered		Insured Value		Due Sender if COD		DC Fee		SC Fee		SH Fee		RD Fee		RR Fee	
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<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$4.40	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	

Postage \$0.78

Total Postage \$10.44

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Street and Apt. NORTHERN ESSEX REALTY TRUST

City, State, Zip 198 SACO AVE
 OLD ORCHARD BEACH, ME 04064

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Southlake, TX 76092

Certified Mail Fee	\$5.30	0813
Extra Services & Fees (check box, add fee as appropriate)	\$4.40	27
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$4.40	
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<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	

Postage \$0.78

Total Postage \$10.44

Sent To 465-4-58

Street and Apt. KRE-BSL HUSKY HAVERHILL LLC

City, State, Zip PO BOX 92129
 SOUTHLAKE, TX 76092

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Haverhill, MA 01830

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Extra Services & Fees (check box, add fee as appropriate)	\$4.40	27
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$4.40	
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Postage \$0.78

Total Postage \$10.44

Sent To 465-4-5

Street and Apt. EDDY STEVEN J

City, State, Zip 73 SEVEN SISTER RD
 HAVERHILL, MA 01830

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Postage \$0.78

Total Postage \$10.44

Sent To 459-2-1

Street and Apt. MENNA JOYCE F

City, State, Zip 26 ELLIOTT STREET
 HAVERHILL, MA 01830

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Postage \$0.78

Total Postage \$10.44

Sent To 441-1-17

Street and Apt. LABRANCHE VICTOR P

City, State, Zip 30 SHATTUCK ST
 HAVERHILL, MA 01830

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Extra Services & Fees (check box, add fee as appropriate)	\$4.40	27
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Postage \$0.78

Total Postage \$10.44

Sent To 441-1-14E

Street and Apt. PEPE MICHELE M

City, State, Zip 25 ELLIOTT ST
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Street and Apt. KEENAN JAMES B ETUX	
City, State, Zip 255 AMESBURY RD HAVERHILL, MA 01830	

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Street and Apt. SDSE EAST BROADWAY LLC	
City, State, Zip 73 SEVEN SISTER RD HAVERHILL, MA 01830	

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Haverhill, MA 01830	
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Postage \$0.78	
Total Postage \$10.44	
Sent To 428-628-4	
Street and Apt. WHITMAN ARTHUR H	
City, State, Zip 73 SEVEN SISTER RD HAVERHILL, MA 01830	

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Haverhill, MA 01832	
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Total Postage \$10.44	
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Street and Apt. SANCHEZ OSCAR M-ETUX	
City, State, Zip 17 SANDLER TER HAVERHILL, MA 01832	

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City, State, Zip 73 SEVEN SISTER RD HAVERHILL, MA 01830	

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City, State, Zip 73 SEVEN SISTER RD HAVERHILL, MA 01830	

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Certified Mail Fee	\$5.30	0813
Postage	\$0.74	27
Total Postage	\$6.04	

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Street and Apt 35 WANNALANCET ROAD REALTY TR

City, State, Zip 73 SEVEN SISTER RD

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Haverhill, MA 01830

Certified Mail Fee	\$5.30	0813
Postage	\$0.74	27
Total Postage	\$6.04	

Sent To 428-628-13C

Street and Apt SDSE EAST BROADWAY LLC

City, State, Zip 73 SEVEN SISTER RD

HAVERHILL, MA 01830

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Haverhill, MA 01831

Certified Mail Fee	\$5.30	0813
Postage	\$0.74	27
Total Postage	\$6.04	

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Street and Apt MASS PROP INVS, LLC

City, State, Zip P.O. BOX 1115

HAVERHILL, MA 01831

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Haverhill, MA 01830

Certified Mail Fee	\$5.30	0813
Postage	\$0.74	27
Total Postage	\$6.04	

Sent To 428-628-10

Street and Apt GELINAS PHILLIP P

City, State, Zip 316 AMESBURY RD

HAVERHILL, MA 01830

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Haverhill, MA 01830

Certified Mail Fee	\$5.30	0813
Postage	\$0.74	27
Total Postage	\$6.04	

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Street and Apt MATT, LLC

City, State, Zip 73 SEVEN SISTER RD

HAVERHILL, MA 01830

PS Form 380



FP-002A
(Rev. 6/23)

The Commonwealth of Massachusetts
City/Town of Haverhill

Application For License

Massachusetts General Law, Chapter 148 §13

☒ New License ☐ Amended License

GIS Coordinates

LAT.

LONG.

License Number

Application is hereby made in accordance with the provisions of Chapter 148 of the General Laws of Massachusetts for a license to store flammables, combustibles or explosives on land in buildings or structures herein described.

Location of Land: 298 Amesbury Road, Map #465, Block #4, Lot #5B
Number, Street and Assessor's Map and Parcel ID

Attach a plot plan of the property indicating the location of property lines and all buildings or structures.

Owner of Land: Eddy Steven J

Address of Land Owner: 298 Amesbury Road, Haverhill, MA

Use and Occupancy of Buildings and Structures: Diesel Fueling Facility with Convenience Store.

If this is an application for amendment of an existing license, indicate date of original license and any subsequent amendments

Attach a copy of the current license

Flammable and Combustible Liquids, Flammable Gases and Solids

Complete this section for the storage of flammable and combustible liquids, solids, and gases; see 527 CMR 1.00 Table 1.12.8.50; Attach additional pages if needed. All tanks and containers are considered full for the purposes of licensing and permitting.

PRODUCT NAME	CLASS	MAXIMUM QUANTITY	UNITS gal., lbs, cubic feet	CONTAINER UST, AST, IBC, drums
Diesel	II	20,000	Gal.	UST
DEF (Diesel Exhaust Fluid)		2,500	Gal.	UST

Total quantity of all flammable liquids to be stored: _____

Total quantity of all combustible liquids to be stored: 20,000 gallons

Total quantity of all flammable gases to be stored: _____

Total quantity of all flammable solids to be stored: _____

LP-gas (Complete this section for the storage of LP-gas or propane)

Indicate the maximum quantity of LP-gas to be stored and the sizes and capacities of all storage containers.
(See 527 CMR 1.00 Table 1.12.8.50)

❖ Maximum quantity (in gallons) of LP-gas to be stored in aboveground containers: _____

List sizes and capacities of all aboveground containers used for storage: _____

❖ Maximum quantity (in gallons) of LP-gas to be stored in underground containers: _____

List sizes and capacities of all underground containers used for storage: _____

Total aggregate quantity of all LP-gas to be stored: _____

Fireworks (Complete this section for the storage of fireworks)

Indicate classes of fireworks to be stored and maximum quantity of each class. (See 527 CMR 1.00 Table 1.12.8.50)

❖ Maximum amount (in pounds) of Class 1.3G: _____ Type/class of magazine used for storage: _____

❖ Maximum amount (in pounds) of Class 1.4G: _____ Type/class of magazine used for storage: _____

❖ Maximum amount (in pounds) of Class 1.4: _____ Type/class of magazine used for storage: _____

Total aggregate quantity of all classes of fireworks to be stored: _____

Explosives (Complete this section for the storage of explosives)

Indicate classes of explosive to be stored and maximum quantity of each class. (See 527 CMR 1.00 Table 1.12.8.50)

❖ Maximum amount (in pounds) of Class 1.1: _____ Number of magazines used for storage: _____

❖ Maximum amount (in pounds) of Class 1.2: _____ Number of magazines used for storage: _____

❖ Maximum amount (in pounds) of Class 1.3: _____ Number of magazines used for storage: _____

❖ Maximum amount (in pounds) of Class 1.4: _____ Number of magazines used for storage: _____

❖ Maximum amount (in pounds) of Class 1.5: _____ Number of magazines used for storage: _____

❖ Maximum amount (in pounds) of Class 1.6: _____ Number of magazines used for storage: _____

I, Johnny Kayrouz, hereby attest that I am authorized to make this application. I acknowledge that the information contained herein is accurate and complete to the best of my knowledge and belief. I acknowledge that all materials stored pursuant to any license granted hereunder must be stored or kept in accordance with all applicable laws, codes, rules and regulations, including but not limited to Massachusetts Chapter 148, and the Massachusetts Fire Code (527 CMR 1.00). I further acknowledge that the storage of any material specified in any license granted hereunder may not exceed the maximum quantity specified by the license.

Signature J. Kayrouz Date 07/11/2025 Name Johnny Kayrouz

PLEASE NOTE THAT ONLY APPLICATIONS WITH ORIGINAL WET SIGNATURES WILL BE ACCEPTED. PHOTOCOPIES OF APPLICATIONS WILL NOT BE PROCESSED.

Fire Department Use Only

I, ERIC M. TARPY, Head of the HAVERHILL Fire Department endorse this application with my

☒ Approval ☐ Disapproval

Signature of Head of the Fire Department E. M. Tarp

Date 9/9/2025

Recommendations: Follow ALL code Requirements and BEST practices Associated With The Use, Storage and maintenance of TANKS, product and process.

[illegible][illegible]

ZONING ANALYSIS TABLE

[illegible]

THIS PLAN TO BE UTILIZED FOR SITE
LAYOUT PURPOSES ONLY



PERMIT SET	
PROJECT No.	WTR130
DRAWN BY	NL WIZAP
CHECKED BY	JMJ
DATE	11/13/2019
SCALE	AS NOTED
SHEET NO.	WTR131-000025

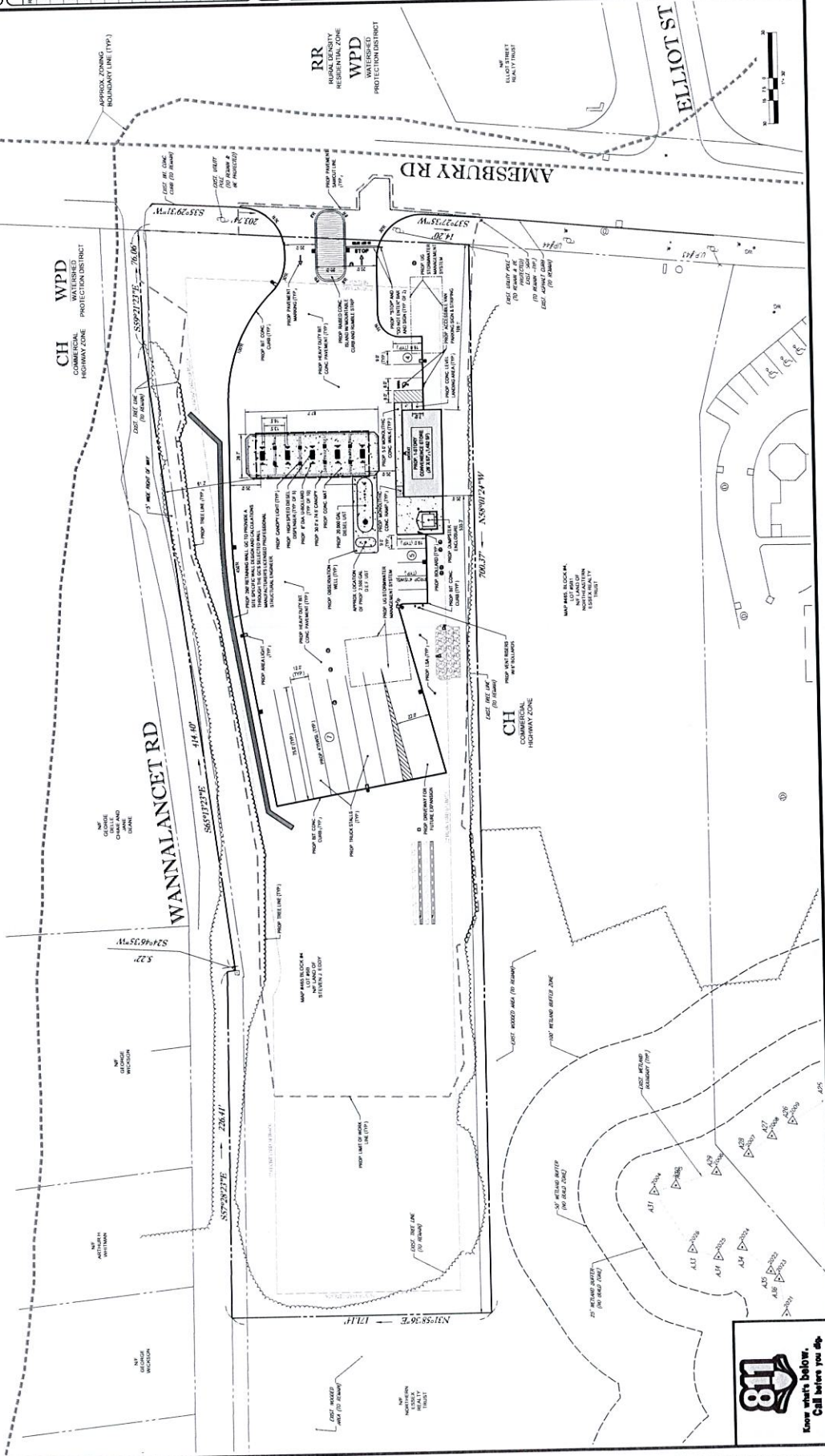
**KAYROUZ
REALTY, LLC**

LOCATION OF SITE
MAP #465, BECK #4, LOT #5B
798 AMESBURY ROAD
TOWN OF HAVERHILL
ESSEX COUNTY
MASSACHUSETTS

J.G. SWERLING
PROFESSIONAL ENGINEER
WASHINGTON LICENSE # 11487

C-201

H3/V B - 06/06/2025





Haverhill

City Clerk's Office, Room 118
Phone: 978-374-2312 Fax: 978-373-8490
cityclerk@haverhillma.gov

July 23, 2025

PUBLIC HEARING

City Council Chambers, City Hall, Room 202, 4 Summer st

Notice is hereby given that the following application for a license to store, keep, and use INFLAMMABLE LIQUIDS has been made to the City Clerk and the City Council will conduct a hearing for all parties interested, in a hybrid meeting (virtual/in person), on Tuesday, September 23, 2025; at 7:00 PM. This notice is given under the provisions of Chapter 148 of the General Laws - Steven J Eddy; requesting to store 20,000 gallons of diesel fuel and 2,500 gallons of Diesel Exhaust Fluid at proposed fueling station to be stored underground at 298 Amesbury Rd.

(Residents who are interested in commenting on this item can either (1) Attend in person (Council Chambers, Room 202) or (2) Attend remotely using the link provided on the public meeting calendar on the City's website.)

Description of area, maps and plans are on file in the City Clerk's Office.

Advertise: September 4 & September 11, 2025
Haverhill Gazette

Kaitlin M, Wright, CMC
City Clerk

JOHNSON &
BORENSTEIN, LLC
ATTORNEYS AT LAW

12 Chestnut Street
Andover, MA 01810-3706
Tel: 978-475-4488
Fax: 978-475-6703
www.jblclaw.com
don@jblclaw.com

Mark B. Johnson (MA, NH, DC)
Donald F. Borenstein (MA, ME, NH)

Keri M. Armstrong (MA, NH)
John M. Donnelly, Jr. (MA, NH)
Gordon T. Glass (ME, MA)
Philip J. Czarnec (MA)
Jonathan R. Stark-Sachs (MA, NH)
Briana R. McCarthy (MA)

Of Counsel
Robert W. Lavoie (MA, NH)

Paralegals
Karen L. Bussell
Lianne Patenaude
Ellen M. Melvin
Kristin L. Sayer

June 30, 2025

Haverhill City Council
c/o City Clerk
City Hall
4 Summer Street
Haverhill, MA 01830

Re: Request to Reopen Hearing; Flammable Storage License Application on remand
from the Land Court
Kayrouz Petroleum, LLC; 298 Amesbury Road, Haverhill, MA

Dear Council President and Councilors:

I represent Kayrouz Petroleum, LLC, ("Kayrouz"). Kayrouz respectfully submits this letter to serve as its formal request for the City Council to place the above-referenced matter on its agenda and reopen its hearing regarding a flammables storage license application under G.L. c. 148, s. 13, for 298 Amesbury Road ("Property"). Kayrouz submits this request pursuant to the mediated settlement endorsed by the Council and the Order of Remand issued by the Land Court.

Background

In 2022, in connection with its proposal to construct a fueling station, Kayrouz sought a flammables storage license for the Property. Kayrouz had previously completed a lengthy site plan review process and received site plan approval for the project from the City. Following a public hearing, the Council voted to deny the application on August 9, 2022. The Council's denial was filed with the City Clerk and Kayrouz timely appealed the decision to both the Land Court and the Superior Court. On appeal, Kayrouz asserted that the denial was procedurally defective, arbitrary, capricious, and not based on substantial evidence, and, further, that the proposed use was allowed as a matter of right under the City's zoning ordinance.

Following the commencement of the appeal, Kayroux and the Council participated in a formal mediation conducted by retired Land Court Justice Harry M. Grossman. The mediation was successful and resulted in a settlement agreement, later endorsed by a vote of the full Council.

Settlement Agreement

Under the Settlement Agreement, Kayroux was obligated to submit additional information from its consultants, for review and comment by City staff, regarding the Council's concerns with traffic safety and fuel storage tank safety. Pursuant to the Settlement Agreement, the Council would then reopen its hearing to consider this additional, new information and to reconsider its original denial.

In accordance with the terms of the Settlement Agreement, Kayroux engaged licensed professionals to prepare a comprehensive traffic impact assessment report and a tank safety report. At the request of the City Engineer, Kayroux also funded the City's engagement of a peer review consultant to conduct a peer review of the environmental safety of the proposed underground storage tank installation design. These reports and additional information have been reviewed by City staff and officials, including the City Engineer and Haverhill Fire Department and the project team believes all comments have been successfully addressed.

A copy of the following materials are enclosed for your review and inclusion in the Council's record:

1. Traffic Impact Assessment, Vanasse & Assoc., Inc., dated June 2023
2. Tank Safety Peer Review Report, Tetrattech, dated April 30, 2025
3. Tank Safety Report, Environmental Risk Advisors, dated July 7, 2023
4. Vanasse & Assoc., Inc. response to City Engineer's Traffic Comments, dated August 5, 2024
5. Bohler Engineering response to City Engineer's Traffic Comments, dated October 18, 2024
6. Mediated Settlement Agreement
7. Land Court Order of Remand

Kayroux Petroleum, LLC, hereby respectfully requests that the City Council:

- Schedule the matter on the agenda of an upcoming Council meeting, *the Applicant team is available August 26, and September 9, & 23;*
- Reopen the public hearing on the flammable storage license application;
- Review and consider the technical reports and other new and additional information submitted by the Applicant and the comments of City staff; and
- Reconsider the Council's prior denial in light of this new and additional information and take appropriate action, consistent with the Settlement Agreement and Land Court Remand Order.

Kayrouz Petroleum, LLC, and it's project team look forward to presenting these materials to the Council and are available to provide any additional information or materials the Council may request in advance of its hearing.

Thank you for your attention to this matter.

Very truly yours,

JOHNSON & BORENSTEIN, LLC

/s/Donald F. Borenstein

Donald F. Borenstein

DFB~klb

Cc: Thomas C. Fallon, Esq.
John H. Pettis, III, P.E., City Engineer
Eric Tarpy, Deputy Fire Chief
Lucien M. DiStefano, Bohler Engineering
Scott W. Thornton, P.E., Vanasse & Assoc., Inc.
Matthew T. Madden, P.E., Tetrattech,
Christopher P. Parent, LSP, Environmental Risk Advisors,

Transportation Impact Assessment

Proposed Diesel Fueling Facility
298 Amesbury Road
Haverhill, Massachusetts

Prepared for:

Kayrouz Realty, LLC
Westborough, Massachusetts

June 2023

Prepared by:

 **Vanasse &
Associates inc**
Transportation Engineers & Planners

35 New England Business Center Drive
Suite 140
Andover, MA 01810

CONTENTS

EXECUTIVE SUMMARY	1
INTRODUCTION	4
Study Methodology	4
EXISTING CONDITIONS	5
Geometry	5
Existing Traffic Volumes	6
Pedestrian and Bicycle Facilities	7
Public Transportation	7
Motor Vehicle Crash Data	7
Vehicle Speeds	10
FUTURE CONDITIONS	11
Future Traffic Growth	11
Project-Generated Traffic	12
Trip Distribution and Assignment	14
Future Traffic Volumes – Build Condition	15
SIGHT DISTANCE EVALUATION	17
TRAFFIC OPERATIONS ANALYSIS	19
Methodology	19
Analysis Results	21
RECOMMENDATIONS AND CONCLUSIONS	24
Recommendations	25
Conclusions	25

FIGURES

No.	Title
1	Site Location and Study Area Map
2	Existing Intersection Lane Use, Travel Lane Width, and Pedestrian Facilities
3	2023 Existing Weekday Morning Peak-Hour Traffic Volumes
4	2023 Existing Weekday Evening Peak-Hour Traffic Volumes
5	2023 Existing Saturday Midday Peak-Hour Traffic Volumes
6	2030 No-Build Weekday Morning Peak-Hour Traffic Volumes
7	2030 No-Build Weekday Evening Peak-Hour Traffic Volumes
8	2030 No-Build Saturday Midday Peak-Hour Traffic Volumes
9	Trip Distribution Map
10	Site-Generated Weekday Morning Peak-Hour Traffic Volumes
11	Site-Generated Weekday Evening Peak-Hour Traffic Volumes
12	Site-Generated Saturday Midday Peak-Hour Traffic Volumes
13	2030 Build Weekday Morning Peak-Hour Traffic Volumes
14	2030 Build Weekday Evening Peak-Hour Traffic Volumes
15	2030 Build Saturday Midday Peak-Hour Traffic Volumes

TABLES

No.	Title
1	2023 Existing Roadway Traffic-Volume Summary
2	Public Transportation Services
3	Motor Vehicle Crash Data Summary
4	Observed Vehicle Speeds (in Miles per Hour)
5	ITE vs. Empirical Trip Rate Comparison
6	Proposed Site Trip-Generation Summary
7	Trip-Distribution Summary
8	Peak-Hour Traffic-Volume Increases
9	Sight Distance Measurements
10	Level-of-Service Criteria for Unsignalized Intersections
11	Unsignalized Intersection Capacity Analysis Summary

EXECUTIVE SUMMARY

DESCRIPTION OF PROJECT

Vanasse & Associates, Inc. (VAI) has prepared this Transportation Impact Assessment (TIA) to identify traffic impacts associated with a proposed Diesel Fueling Facility to be located at 298 Amesbury Road in Haverhill, Massachusetts (the "Project"). The purpose of this TIA is to review existing and future traffic conditions in the vicinity of the site, determine the traffic impact of the proposed Project at key intersections expected to experience increased traffic levels from the Project, and review the need for improvements to mitigate the Project's traffic impact.

PROPOSED PROJECT

The site is bounded by areas of open and wooded space to the north and west, areas of open and wooded space and residential properties to the south, and Amesbury Road (Route 110) to the east. Currently, the site contains one residential building and one commercial building and has one curb cut onto Route 110. The Project entails razing the two existing buildings. The site will consist of a 1,482 square feet (sf) convenience store with 5 diesel pumps and 9 parking spaces. Site access will be provided via a new curb cut onto Route 110.

EXISTING CONDITIONS

A comprehensive field inventory was conducted to collect existing roadway geometrics, traffic volumes, operating characteristics, speed limits, and sight distances, as well as land use information. Traffic volumes were collected in April 2023 at the intersections expected to receive the traffic impact from the Project. These are listed below:

- Amesbury Road (Route 110) at I-495 southbound ramps
- Route 110 at I-495 northbound ramps and Wannalancet Road
- Route 110 at Elliott Street

FUTURE CONDITIONS

Traffic volumes within the study area were projected to 2030, which reflects a seven-year planning horizon consistent with State traffic study guidelines. These conditions incorporate traffic growth due to general background traffic increases as well as development projects currently being proposed/permitted or under construction and expected to generate traffic in the future. This condition is referred to as the No-Build condition.

PROJECT-GENERATED TRAFFIC

The Project is expected to generate 23 truck trips (12 entering and 11 exiting) during the weekday morning peak hour and 12 truck trips (6 entering and 6 exiting) during the weekday evening peak hour. On a Saturday midday peak hour, the Project is expected to generate 10 truck trips (5 entering and 5 exiting).

Project-related traffic-volume increases external to the study area relative to 2030 No-Build conditions are anticipated to range from 2 to 10 vehicles or 0.1 to 1.4 percent during the peak periods.

TRAFFIC OPERATIONS ANALYSIS

In future conditions, operations are generally preserved with minor increases in delays and vehicle queue lengths on the various approaches.

RECOMMENDATIONS

Access to the Project site will be provided via a new curb cut onto Route 110. The following recommendations are offered with respect to the design and operation of the Project site driveway:

- The driveway should be placed under STOP-sign (*Manual on Uniform Traffic Control Devices* (MUTCD)¹ R1-1) control, with a painted STOP-bar included.
- All signs and other pavement markings to be installed within the Project site shall conform to the applicable standards of the current MUTCD.
- Signs and landscaping adjacent to the Project site driveway should be designed and maintained so as not to restrict lines of sight.
- Snow windrows within sight triangle areas of the Project site driveway should be promptly removed where such accumulations would impede sightlines.

¹*Manual on Uniform Traffic Control Devices (MUTCD)*; Federal Highway Administration; Washington, D.C.; 2009.

CONCLUSIONS

As documented in this study, Project-related traffic increases will not result in significant increases on overall traffic volumes or traffic delays within the study area. The site driveway will provide efficient access to and from the development. In general, Project-related traffic can be adequately accommodated within the existing infrastructure with minimal impact on the traffic operations within the study area.

INTRODUCTION

Vanasse & Associates, Inc. (VAI) has prepared this Transportation Impact Assessment (TIA) in order to identify the traffic impacts associated with the proposed Diesel Fueling Facility to be located at 298 Amesbury Road in Haverhill, Massachusetts. This report identifies and analyzes existing and future traffic conditions both with and without the Project and reviews access requirements, potential offsite improvements, and safety considerations.

STUDY METHODOLOGY

This study was prepared in accordance with the State guidelines for TIAs and was conducted in three distinct stages.

The first stage involved an assessment of existing conditions in the study area and included an inventory of roadway geometry, observations of traffic flow, and collection of peak-period traffic counts.

In the second stage of the study, future traffic conditions were projected and analyzed. Specific travel demand forecasts for the Project were assessed along with future traffic demands due to expected traffic growth independent of the Project. A seven-year time horizon was selected for these analyses consistent with State guidelines for the preparation of TIAs. The traffic analysis conducted in stage two identifies projected future roadway capacity, traffic safety, and site access issues.

The third stage of the study presents and evaluates measures to address traffic and safety issues, if any are necessary, based on the results from stage two of the study.

EXISTING CONDITIONS

A comprehensive field inventory of existing conditions within the study area was conducted in April 2023. The field investigation consisted of an inventory of existing roadway geometrics, traffic volumes; and operating characteristics; as well as posted speed limits, sight distance, and land use information within the study area. The study area for the Project contains the major roadway which provides access to the Project, as well as the intersections which are expected to accommodate the majority of Project-related traffic. The study area is listed below and graphically depicted on Figure 1.

- Amesbury Road (Route 110) at I-495 southbound ramps
- Route 110 at I-495 northbound ramps and Wannalancet Road
- Route 110 at Elliott Street

The following describes the study area roadway which provides access/egress to the Project.

GEOMETRY

Roadway

Route 110

Route 110 is classified as an urban principal arterial roadway under Massachusetts Department of Transportation (MassDOT) jurisdiction. Route 110 runs in a general north-to-south alignment throughout the study area. Route 110 provides one general-purpose travel lane in each direction separated by a double-yellow centerline. The land use along Route 110 throughout the study area generally consist of commercial and residential uses.

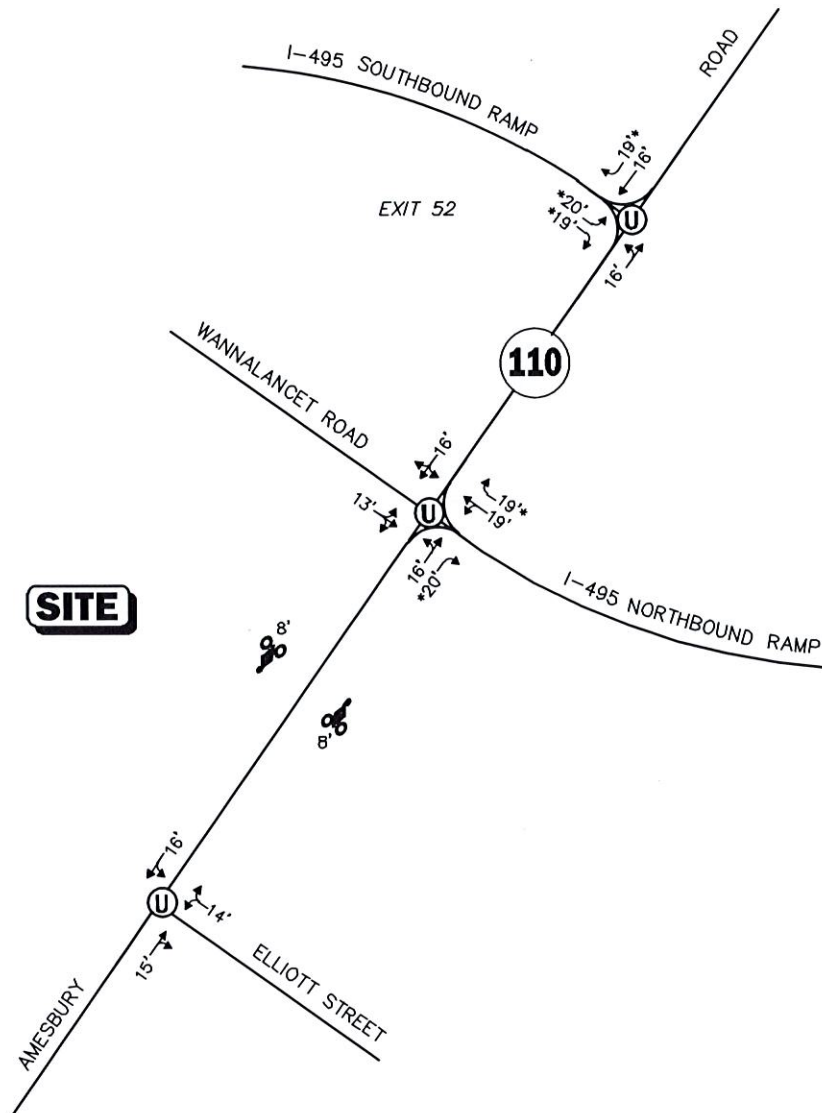
Intersections

Figure 2 summarizes existing lane use, travel lane widths, and sidewalk and crosswalk locations at the study area intersections.



Legend:

-  Unsignalized Intersection
-  Lane Use and Travel Lane Width
-  Channelized Right-Turn Lane
-  Bike Lane



Not To Scale

Vai Vanasse & Associates inc

Figure 2

Existing Intersection Lane Use, Travel Lane Width, and Pedestrian Facilities

EXISTING TRAFFIC VOLUMES

In order to establish base traffic-volume demands and flow patterns within the study area, manual turning movement counts (TMCs) were completed in April 2023. The TMCs were conducted during the weekday morning (7:00 to 9:00 AM), weekday evening (4:00 to 6:00 PM), and Saturday midday (11:00 AM to 2:00PM) peak periods. Bicycles and pedestrians were also counted.

Traffic-Volume Adjustments

In order to develop 2023 Existing traffic-volume conditions, MassDOT weekday seasonal factors for Urban Groups 3 (other principal arterials) were reviewed.² Based on a review of this data, it was determined that traffic volumes for the month of April are *above* average-month conditions. As such, the traffic volumes were not adjusted to be representative of average-month conditions.

MassDOT no longer requires pandemic-related adjustment of traffic counts performed after March 2022 except in locations where the predominant land use consists of offices or similar uses.³ Given that the predominant land use within the study area is residential, no further adjustment (beyond the seasonal adjustment) is necessary.

As can be seen in Table 1, Route 110 is observed to carry approximately 12,513 vehicles per day (vpd) during an average weekday and 8,502 vpd during an average Saturday with 894 vehicles per hour (vph) during the weekday morning peak hour, 1,117 vph during the weekday evening peak hour, and 702 vph during the Saturday midday peak hour. During the weekday morning peak hour, 56 percent of the traffic is traveling northbound, during the weekday evening peak hour, 54 percent of the traffic is traveling southbound, and during the Saturday midday peak hour, 52 percent of the traffic is traveling northbound. The existing weekday morning, evening, and Saturday midday peak-hour traffic volumes for the study area intersections are graphically depicted on Figures 3, 4, and 5, respectively.

Table 1
2023 EXISTING ROADWAY TRAFFIC-VOLUME SUMMARY

Location	Weekday	Weekday Morning Peak Hour			Weekday Evening Peak Hour			Saturday	Saturday Midday Peak Hour		
	Daily Volume (vpd) ^a	Volume (vph) ^b	Percent of Daily Traffic ^c	Predominant Flow	Volume (vph)	Percent of Daily Traffic	Predominant Flow	Daily Volume (vpd) ^a	Volume (vph)	Percent of Daily Traffic ^c	Predominant Flow
Route 110, east of Elliott Street	12,513	894	7.1	56.3% NB	1,117	8.9	53.6% SB	8,502	702	8.3	52.1% NB

Note: Based on data collected by VAI in March/April 2023.

^aTwo-way daily traffic expressed in vehicles per day, estimated.

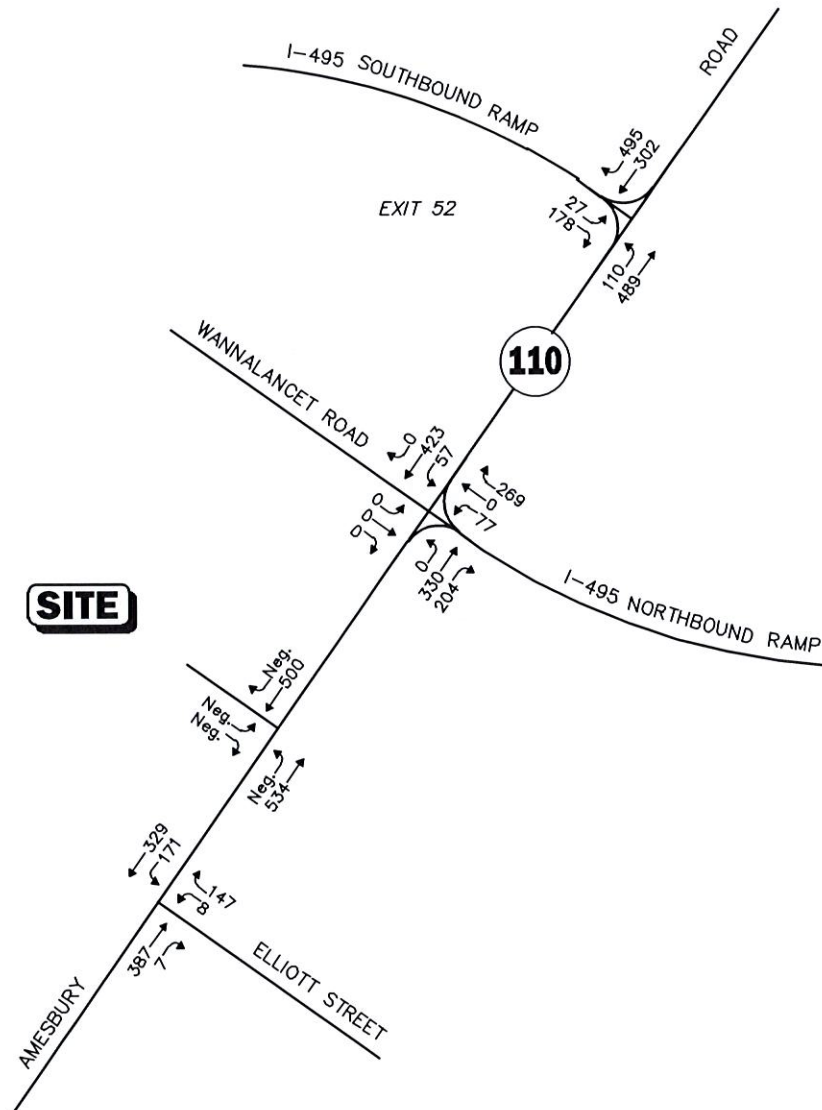
^bTwo-way peak-hour volume expressed in vehicles per hour.

^cThe percent of daily traffic that occurs during the peak hour.

NB = northbound, SB = southbound.

²MassDOT statewide Traffic Data Collection; 2019 Weekday Seasonal Factors, Groups U3.

³25% Design Submission Guidelines; MassDOT Highway Division, Traffic and Safety Engineering; Revised May 31, 2022.

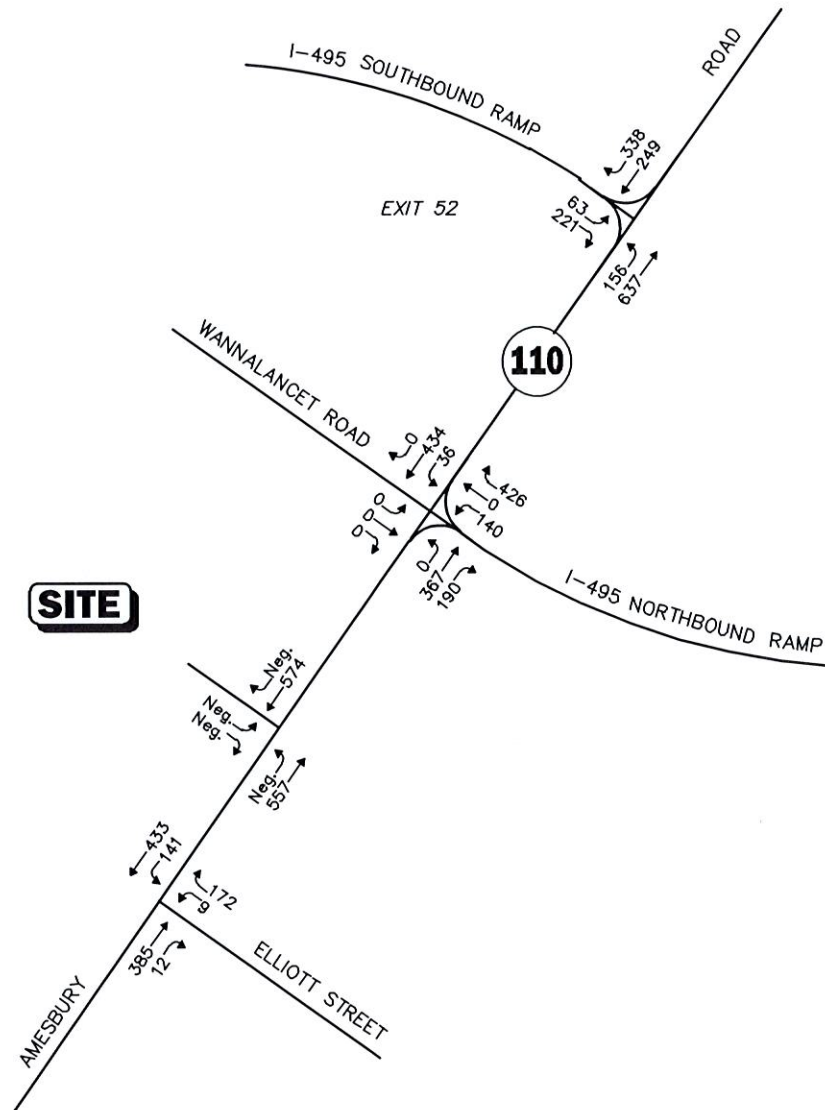


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VAi Vanasse & Associates inc

Figure 3

**2023 Existing
Weekday Morning
Peak-Hour Traffic Volumes**

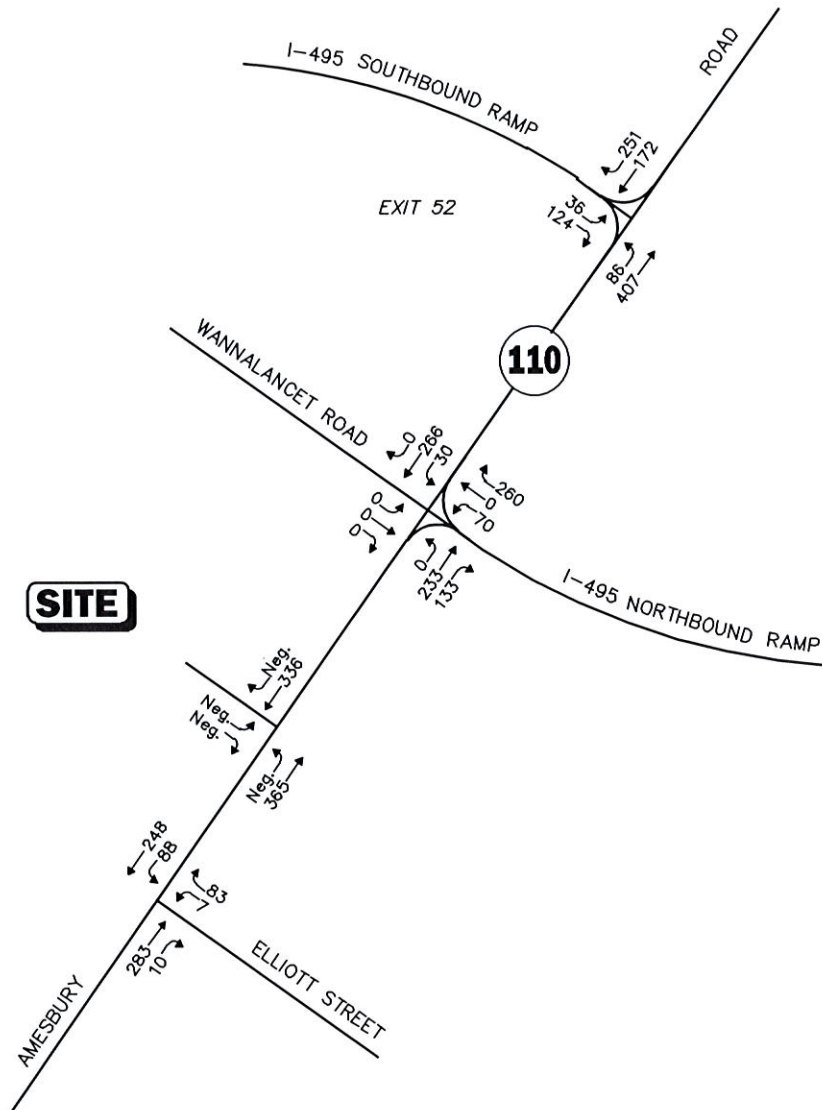


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Figure 4

**2023 Existing
Weekday Evening
Peak-Hour Traffic Volumes**



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Associates inc

Figure 5

2023 Existing
Saturday Midday
Peak-Hour Traffic Volumes

PEDESTRIAN AND BICYCLE FACILITIES

An extensive inventory of pedestrian and bicycle facilities within the study area was undertaken in March 2023. The field inventory consisted of a review of the location of sidewalks and pedestrian crossing locations along the study area roadways and at the study area intersections, as well as the location of bicycle facilities. Sidewalks and crosswalks are not provided within the vicinity of the site. Bike lanes are provided along both sides of Route 110 within the study area.

PUBLIC TRANSPORTATION

Public transportation services are provided within the study area by the Merrimack Valley Regional Transit Authority (MVRTA). The MVRTA provides fixed-route bus service to Washington Square Transit Center in Haverhill on the No. 17 route by way of the NECC Haverhill Campus, which is located at 100 Elliott Street, approximately 0.5 miles (a 9-minute walk) to the south of the Project site.

Table 2 summarizes the characteristics of these services. The public transportation schedules and fare information are provided in the Appendix.

Table 2
PUBLIC TRANSPORTATION SERVICES

Bus Route Number	Service	Stop Closest to Site	Distance from Site	Weekday	
				Hours of Operation	Headway (minutes)
17	Haverhill - Salisbury Beach via Amesbury	NECC Haverhill Campus	~0.5 miles south	5:10 AM – 7:45 PM	60

MOTOR VEHICLE CRASH DATA

Motor vehicle crash information for the study area intersections was provided by the MassDOT Safety Management/Traffic Operations Unit for the most recent five-year period available (2016 through 2020) in order to examine motor vehicle crash trends occurring within the study area. The data is summarized in Table 3 by intersection, type, weather condition, lighting condition, pavement condition, and severity.

As can be seen in Table 3, the intersection of Route 110 at the I-495 southbound ramps experienced 6 accidents over the five-year review period, averaging 1.2 accidents per year. The majority of the accidents were rear-end collisions, occurred on dry pavement, during the daylight, in clear weather, and caused property damage only. The intersection of Route 110 at the I-495 Northbound ramps and Wannalancet Road experienced 18 accidents over the five-year review period, averaging 3.6 accidents per year. The majority of accidents were angle or rear-end collisions (18 of 18), occurred on dry pavement (12 of 18), during daylight (13 of 18), in clear weather (13 of 18), and caused property damage only (17 of 18). The intersection of Route 110 at Elliott Street experienced 11 accidents over the five-year review period, averaging 2.2 accidents per year. The majority of accidents were angle or rear-end collisions (10 of 11), occurred on dry pavement (9 of 11), during

daylight (10 of 11), in clear weather (9 of 11), and caused a personal injury or property damage only (11 of 11). No fatalities were reported over the five-year period reviewed. The crash rates for the intersections were observed to be lower than the MassDOT District 4 crash rates for unsignalized intersections.

Table 3
MOTOR VEHICLE CRASH DATA SUMMARY^a

	Route 110 at I-495 Southbound Ramps	Route 110 at I-495 Northbound Ramps and Wannalancet Road	Route 110 at Elliott Street
<i>Year:</i>			
2016	2	1	2
2017	1	7	3
2018	1	7	1
2019	2	2	2
<u>2020</u>	<u>0</u>	<u>1</u>	<u>3</u>
Total	6	18	11
Average ^b	1.2	3.6	2.2
Crash Rate ^b	0.18	0.57	0.57
Significant ^c	No	No	No
<i>Type:</i>			
Angle	0	10	4
Rear-End	6	8	6
Head-On	0	0	1
Sideswipe	0	0	0
Fixed Object	0	0	0
Pedestrian	0	0	0
Bicyclist	0	0	0
<u>Unknown/Other</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	6	18	11
<i>Weather Conditions:</i>			
Clear	4	13	9
Cloudy/Rain	2	3	0
Snow/Ice	0	1	1
Fog	0	0	0
<u>Unknown/Other</u>	<u>0</u>	<u>1</u>	<u>1</u>
Total	6	18	11
<i>Lighting Conditions:</i>			
Daylight	6	13	10
Dawn/Dusk	0	1	1
Dark (lit)	0	2	0
Dark (unlit)	0	2	0
<u>Unknown/Other</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	6	18	11
<i>Pavement Conditions :</i>			
Dry	5	12	9
Wet	0	3	1
Snow/Ice	0	3	1
<u>Unknown/Other</u>	<u>1</u>	<u>0</u>	<u>0</u>
Total	6	18	11
<i>Severity:</i>			
Property Damage Only	6	17	6
Personal Injury	0	1	5
Fatality	0	0	0
<u>Unknown/Other</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	6	18	11

^aAverage number of crashes over a five-year period.

^bCrash rate per million entering vehicles (mev).

^cSignificant if crash rate > 0.57 for unsignalized intersections (MassDOT District 4 rates).

Source: MassDOT Crash Data, 2016 through 2020.

VEHICLE SPEEDS

Existing vehicle speeds along Route 110, east of Elliott Street were recorded to determine the average and 85th percentile vehicle speeds. The speed limit on Route 110 is posted at 40 miles per hour (mph). The results of the speed measurements are shown in Table 4.

Table 4
OBSERVED VEHICLE SPEEDS (In Miles Per Hour)

Location/Direction	Thursday		Saturday	
	Average Speed	85 th Percentile Speed ^a	Average Speed	85 th Percentile Speed
<i>Route 110, north of Elliott Street:</i>				
Eastbound	35	44	37	44
Westbound	36	43	38	44

^aThe 85th percentile speed is the speed at which 85 percent of the traffic is traveling at or below. It is commonly used for setting speed limits on roadways.

As can be seen from Table 4, on a Thursday, the average speed recorded northbound on Route 110 was 35 mph and the 85th percentile speed recorded was 44 mph. The average speed recorded southbound was 36 mph and the 85th percentile speed was 43 mph. On a Saturday, the average speed recorded northbound on Route 110 was 37 mph and the 85th percentile speed recorded was 44 mph. The average speed recorded southbound was 38 mph and the 85th percentile speed was 44 mph.

FUTURE CONDITIONS

To determine the impact of site-generated traffic volumes on the roadway network under future conditions, existing traffic volumes in the study area were projected to the year 2030. Traffic volumes on the roadway network at that time, in the absence of the Project (that is, the No-Build condition), would include existing traffic, new traffic due to general background traffic growth, and traffic related to specific development by others expected to be completed by 2030. Inclusion of these factors resulted in the development of 2030 No-Build traffic volumes. Anticipated site-generated traffic volumes were then superimposed upon these No-Build traffic-flow networks to develop the 2030 Build traffic-volume conditions.

FUTURE TRAFFIC GROWTH

Traffic growth on area roadways is a function of the expected land development impacting the study area. Several methods are used to estimate this growth. A procedure frequently employed estimates an annual percentage increase in traffic growth and applies that percentage to all existing traffic volumes under study. The drawback to such a procedure is that some turning volumes may actually grow at either a higher or a lower rate at particular intersections.

In addition, we identified the location and type of planned development affecting the study area, estimated the traffic to be generated by that development, and assigned it to the area roadway network. This produces a more realistic estimate of growth for local traffic. However, the drawback of this procedure is that the potential growth in population and development external to the study area would not be accounted for in the traffic projections.

To provide a conservative analysis framework, both procedures were used in this TIA.

General Background Growth

Traffic-volume data compiled by MassDOT from permanent count stations and historic traffic counts in the area were reviewed in order to determine general background traffic growth trends. Based on a review of this data and other area traffic studies, it was determined that the traffic volumes are increasing in the area by approximately 0.93 percent per year on average. Therefore, a 1.0 percent per year compounded annual background traffic growth rate was used to account for future traffic growth including presently unforeseen development within the study area.

Specific Development by Others

The City of Haverhill was contacted in order to determine if there are any planned or approved development projects that are expected to influence future traffic volumes within the study area. At the time of this writing, no information had been provided; therefore, no developments were identified for inclusion. The former Dutton Airfield has been the subject of speculation for development of an industrial park of 700,000 to 800,000 sf of industrial space but no traffic study has been provided at this time.

Planned Roadway Improvements

The City of Haverhill and MassDOT were contacted in order to determine if there are any planned roadway improvement projects expected to be completed within the study area in the seven-year planning horizon. Based on these discussions, no roadway improvement projects are planned within the study area beyond general maintenance.

No-Build Traffic Volumes

The 2030 No-Build peak-hour traffic-volume networks were developed by applying the 1.0 percent per year compounded annual background traffic growth rate to the 2023 Existing peak-hour traffic volumes. The resulting 2030 No-Build weekday morning, evening, and Saturday midday peak-hour traffic-volume networks are shown on Figures 6, 7, and 8, respectively.

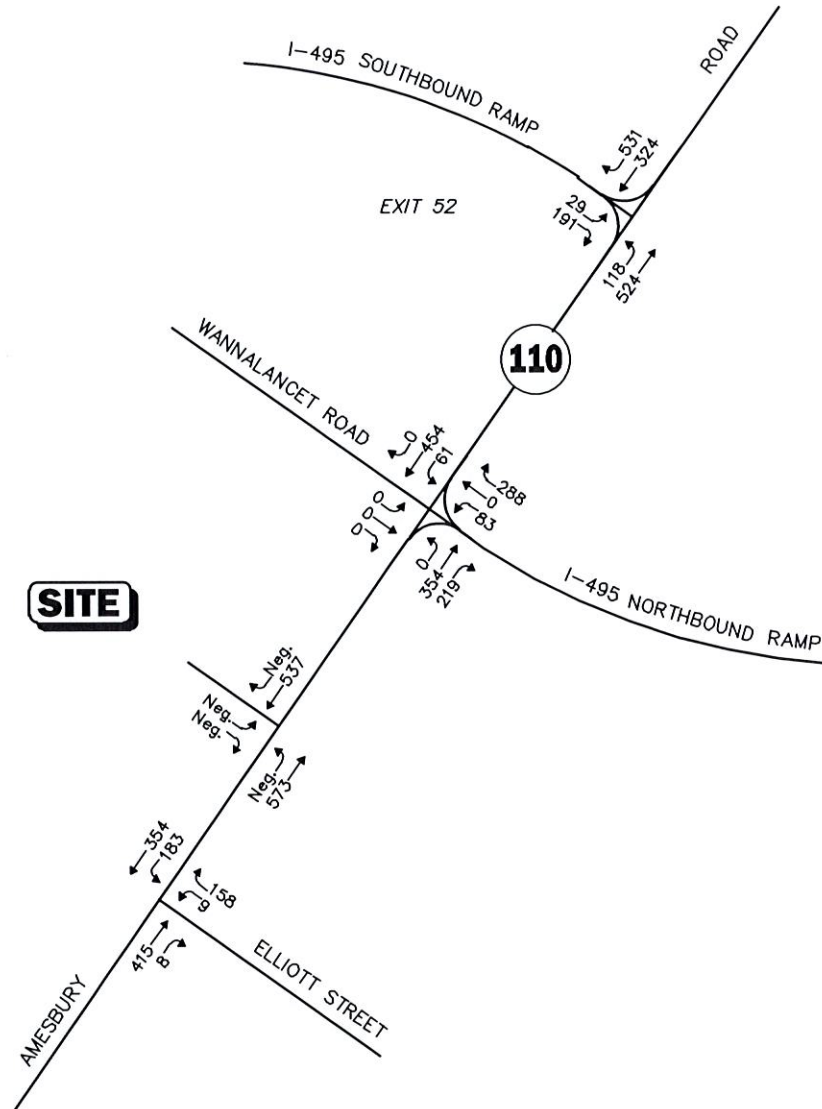
PROJECT-GENERATED TRAFFIC

The Project entails constructing a Diesel Fueling Facility, which will have a 1,482 convenience store and 5 vehicle fueling positions (vfps). In order to develop the traffic characteristics of the proposed Project, the entering/exiting traffic-volumes were recorded at two comparable sites located at 728 Route 3A in Bow, New Hampshire and at 280 New Lancaster Road in Leominster, Massachusetts. Both sites provide a convenience store with a gas station and truck fueling positions. Traffic counts for the Bow site were conducted from 7:00 AM to 6:00 PM on a weekday and from 11:00 AM to 2:00 PM on a Saturday. Traffic counts for the Leominster site were conducted from 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM on a weekday and from 11:00 AM to 2:00 PM on a Saturday. The counts were used to develop trip rates to compare to the Institute of Transportation Engineers (ITE)⁴ for Land Use Code (LUC) 950, *Truck Stop*.

Peak Hour Trip Rate Comparison: ITE vs. Empirical

The number of vfps along with the counted trips were used to develop trip rates for each site to compare with ITE data. The Bow site has 8 vfps and the Leominster site has 5 vfps. The number of peak hour trips were then divided by the vfps to determine a peak hour trip rate per vfp. Table 5 summarizes the peak hour trip rates for each site and compares that to ITE peak hour trip rates for LUC 950, *Truck Stop*.

⁴*Trip Generation*, 11th Edition; Institute of Transportation Engineers; Washington, DC; 2021.

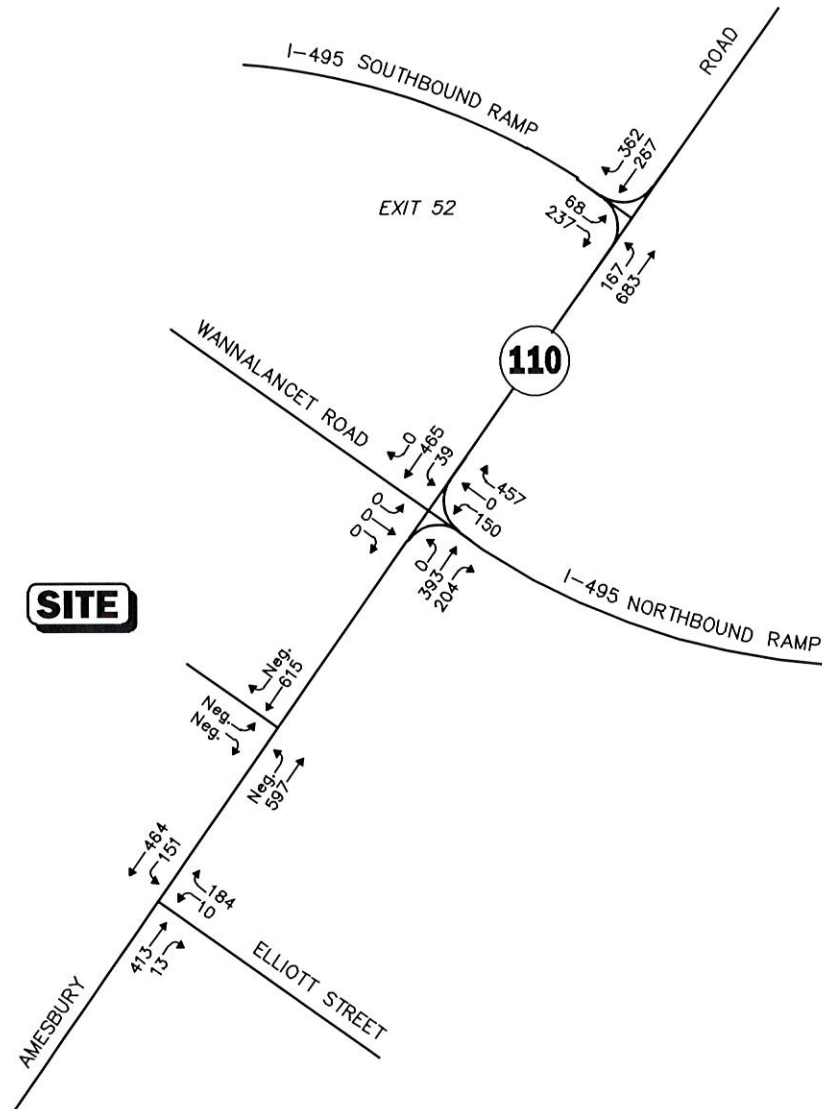


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VAi Vanasse & Associates inc

Figure 6

2030 No-Build
Weekday Morning
Peak-Hour Traffic Volumes



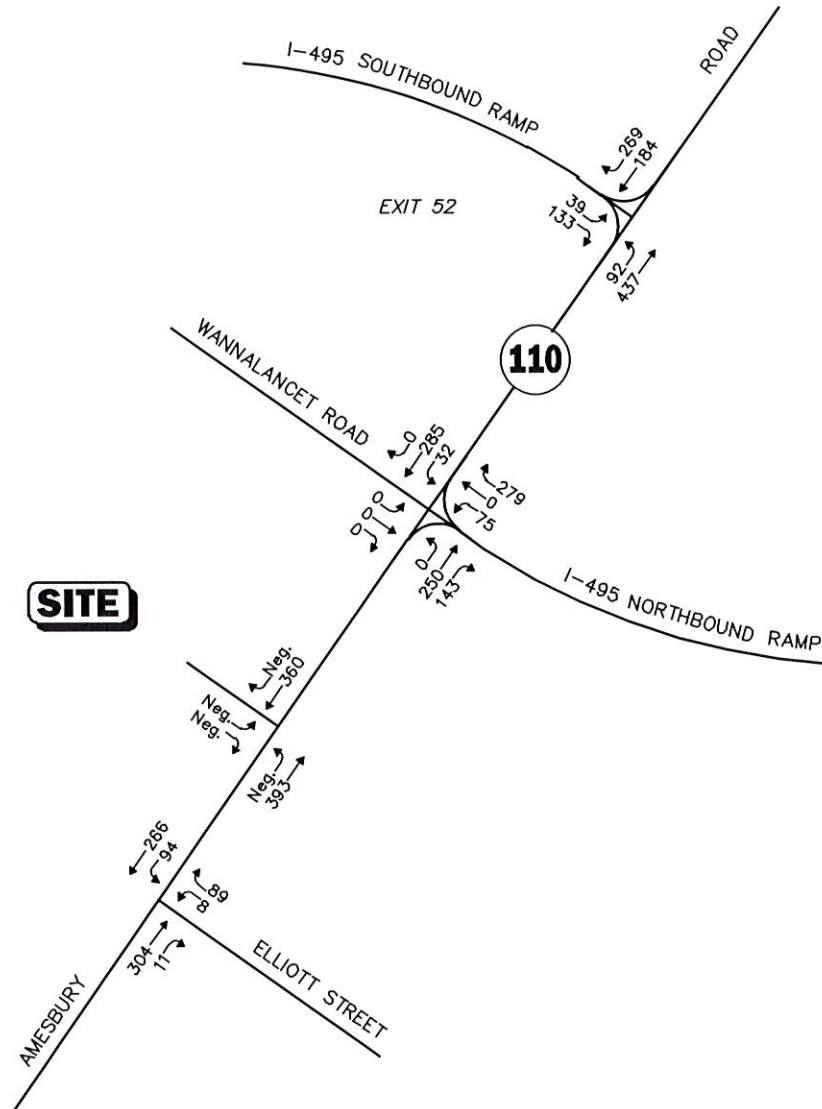
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Figure 7

2030 No-Build
Weekday Evening
Peak-Hour Traffic Volumes



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Figure 8

**2030 No-Build
Saturday Midday
Peak-Hour Traffic Volumes**

Table 5
ITE VS EMPIRICAL TRIP RATE COMPARISON

Time Period/ Peak Hour	Empirical Counts			ITE Truck Stop	
	Bow Site Trip Rate ^a (trips/vfp)	Leominster Site Trip Rate ^b (trips/vfp)	Average Site Trip Rate (trips/vfp)	LUC 950 Trip Rate (trips/vfp)	Percent Decrease
Weekday Morning	3.87	5.00	4.5	13.97	-68
Weekday Evening	2.12	2.6	2.4	15.42	-91
Saturday Midday	2.75	1.4	2.0	N/A	--

^aTotal Trips divided by 8 vfps.

^bTotal Trips divided by 5 vfps.

N/A = No ITE data available for this time period.

As shown in Table 5, ITE LUC 950 overestimates the anticipated number of trips for these types of use. The empirical count data resulted in an average rate of 13.97 trips per vfp during the weekday morning peak hour and an average rate of 15.42 trips per vfp during the weekday evening peak hour for this Diesel Fueling Facility. The empirical rates are 68 percent lower than the ITE rates during the weekday morning peak hour and 91 percent lower during the weekday evening peak hour. ITE has no data for this use for the Saturday time period.

Trip Generation for 298 Amesbury Road Using Empirical Trip Rates

The trip rates show that the ITE trips rates for LUC 950, *Truck Stop*, are not appropriate for the proposed land use. Therefore, the average empirical trip rates were used to calculate peak hour trips for the proposed Diesel Fueling Facility to be located at 298 Amesbury Road in Haverhill, Massachusetts. The empirical trip rate found for the Saturday midday peak hour from the two sites was used for the proposed Diesel Fueling Facility.

Trip Generation for 298 Amesbury Road Using ATR Data

As the hourly trip rates for actual sites were considerably lower than those of the ITE rates, it was expected that the same was true for the weekday daily trip rates. The ITE daily trip rate was equivalent to 244 trips per vfp; this represents more truck trips from one vfp than currently exist on Amesbury Road adjacent to the site. It is not expected that the site will result in a five-fold increase in truck trip generation. Alternative calculations were developed to generate daily trips for the site, but these still projected higher trip counts than the empirical hourly counts indicated. ITE did not have data for the Saturday daily trip rate.

In order to estimate daily trips to the site, a review of the ATR vehicle classification data was conducted. This data separated vehicles by type with categories for trucks separated from passenger vehicles. Approximately 212 truck trips were recorded on the weekday count and 86 truck trips were recorded on the Saturday count. It was assumed that if half of the existing truck trips on Amesbury Road visited the site for fuel, this would be a fair estimate of truck activity to the site.

The projected trip generation with the above assumptions is summarized in Table 6.

Table 6
PROPOSED SITE TRIP-GENERATION SUMMARY

Time Period/ Directional Distribution	Diesel Fueling Facility (5 vfps) ^a
	Vehicle Trips
Weekday Daily	106
<i>Weekday Morning Peak Hour:</i>	
Entering	12
<u>Exiting</u>	<u>11</u>
Total	23
<i>Weekday Evening Peak Hour:</i>	
Entering	6
<u>Exiting</u>	<u>6</u>
Total	12
Saturday Daily	46
<i>Saturday Midday Peak Hour:</i>	
Entering	5
<u>Exiting</u>	<u>5</u>
Total	10

^aBased on empirical trip rates and existing Amesbury Road truck traffic.

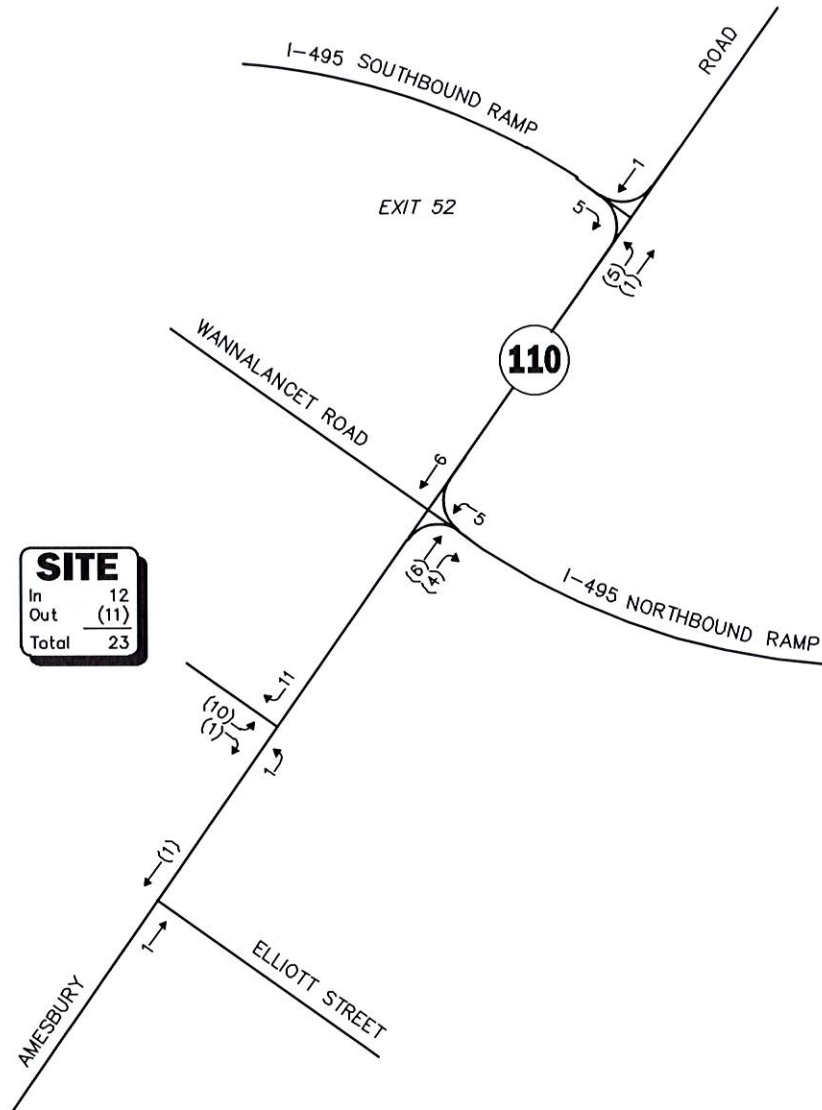
As can be seen in Table 6, the Project is expected to generate 106 truck trips (approximately 53 trucks entering and exiting) on an average weekday (two-way, 24-hour volume), with 23 truck trips (12 entering and 11 exiting) expected during the weekday morning peak hour, and 12 truck trips (6 entering and 6 exiting) expected during the weekday evening peak hour. On Saturday, the Project is expected to generate 46 truck trips (approximately 23 trucks entering and exiting), with 10 truck trips (5 entering and 5 exiting) expected during the Saturday Midday peak hour.

TRIP DISTRIBUTION AND ASSIGNMENT

The directional distribution of the site-generated trips to and from the Project was determined based on a combination of a review of existing travel patterns at the study area intersections and the expectation that the proximity of the site to I-495 will result in that highway being the primary source of truck trips to and from the site. The trip distribution for the Project is summarized in Table 7 and graphically depicted on Figure 9. The weekday morning, evening, and Saturday midday peak-hour traffic volumes expected to be generated by the Project were assigned on the study area roadway network as shown on Figures 10, 11, and 12, respectively.



Trip Distribution Map



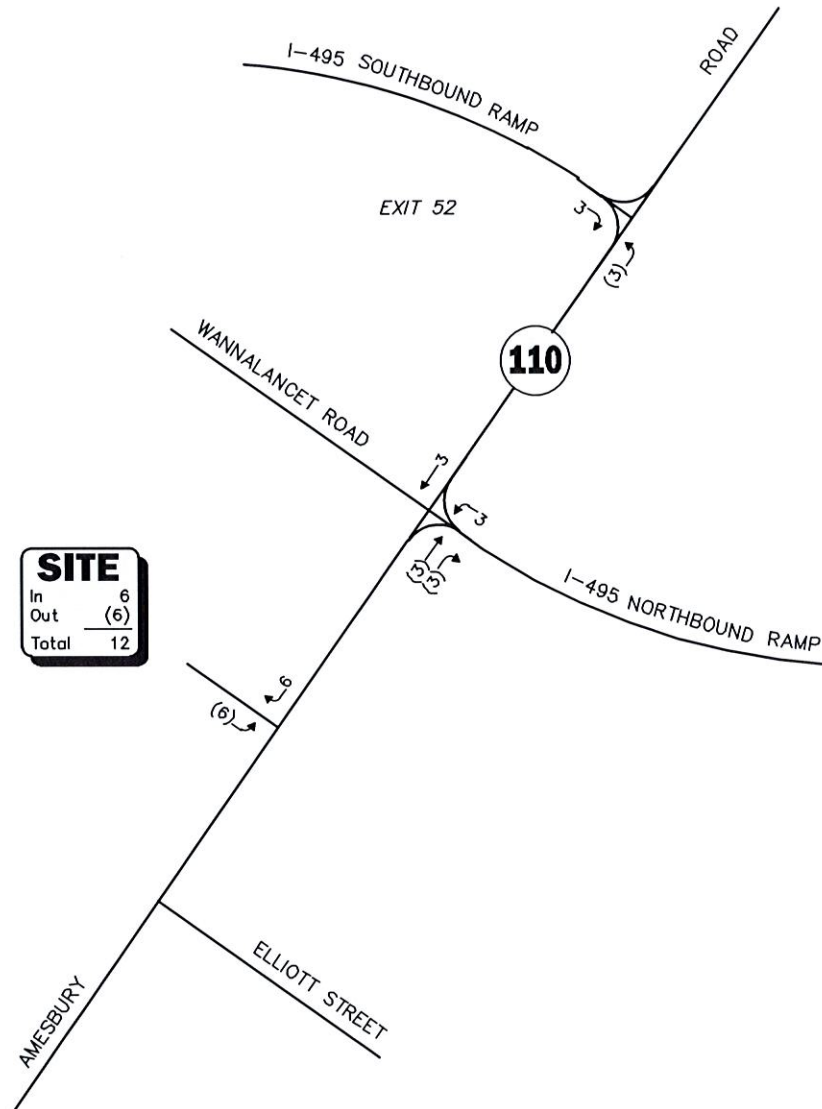
Not To Scale



Vanasse &
Associates inc

Figure 10

**Site-Generated
Weekday Morning
Peak-Hour Traffic Volumes**



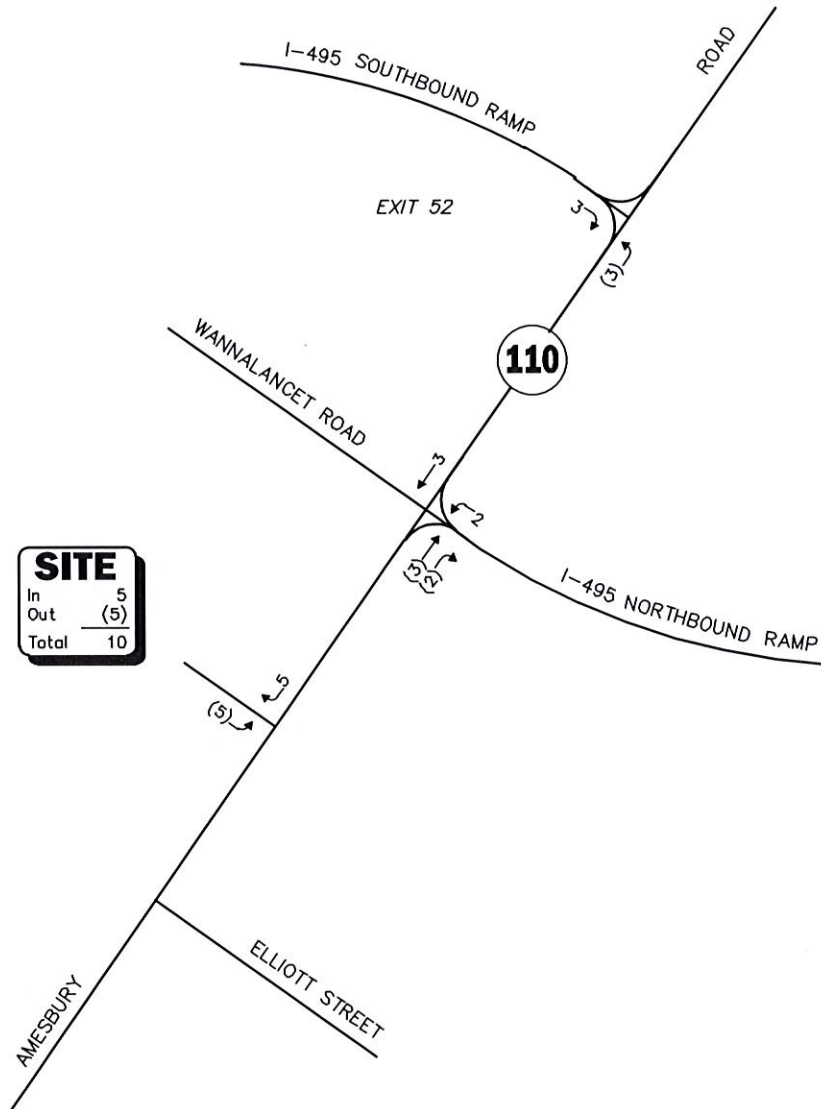
Not To Scale



Vanasse &
Associates inc

Figure 11

Site-Generated
Weekday Evening
Peak-Hour Traffic Volumes



Not To Scale



Vanasse &
Associates inc

Figure 12

Site-Generated
Saturday Midday
Peak-Hour Traffic Volumes

Table 7
TRIP-DISTRIBUTION SUMMARY

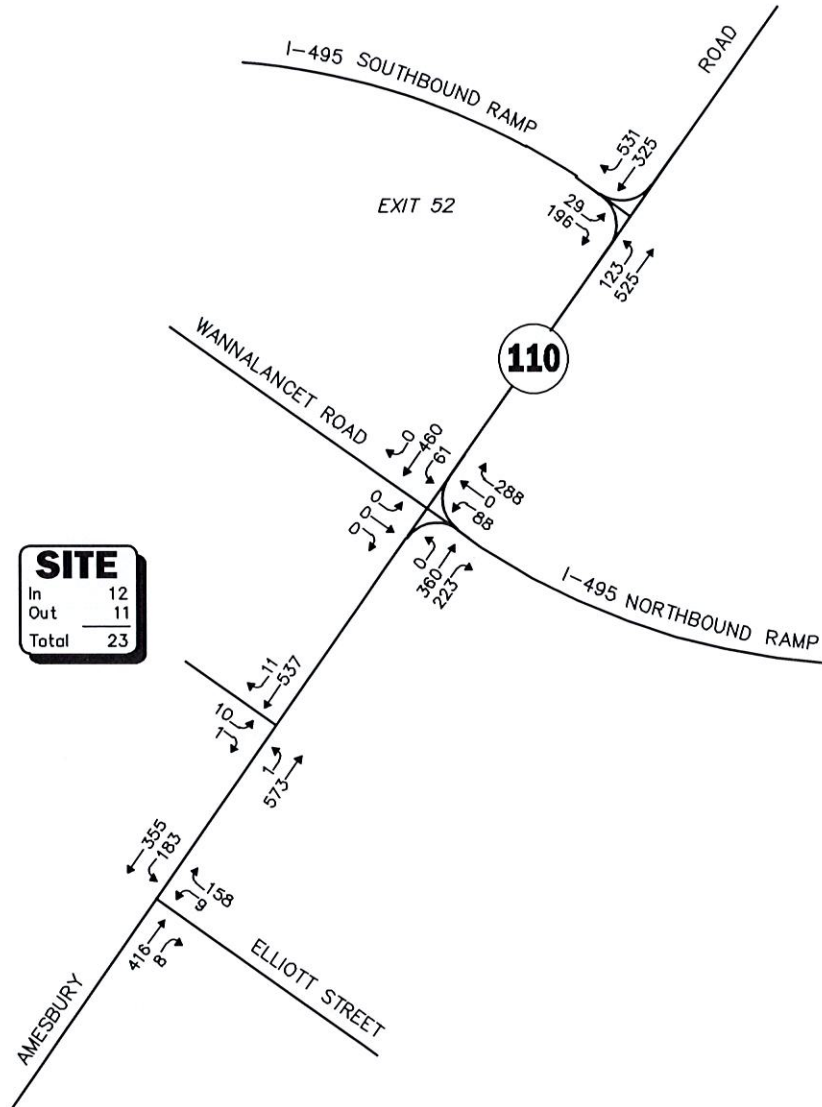
Roadway	Direction (To/From)	Percent (To/From)
Route 110	North	5
Route 110	South	5
I-495 Northbound Ramps	West	43
I-495 Southbound Ramps	East	<u>47</u>
TOTAL		100

FUTURE TRAFFIC VOLUMES – BUILD CONDITION

The 2030 Build condition networks consist of the 2030 No-Build traffic volumes with the anticipated Project-generated traffic added to them. The 2030 Build weekday morning, evening, and Saturday midday peak-hour traffic-volume networks are graphically depicted on Figures 13, 14, and 15, respectively.

A summary of peak-hour projected traffic-volume increases external to the study area that is the subject of this assessment is shown in Table 8. These volumes are based on the expected increases from the Project.

As shown in Table 8, Project-related traffic-volume increases external to the study area relative to 2030 No-Build conditions are anticipated to range from 2 to 10 vehicles or 0.1 to 1.4 percent during the peak periods.



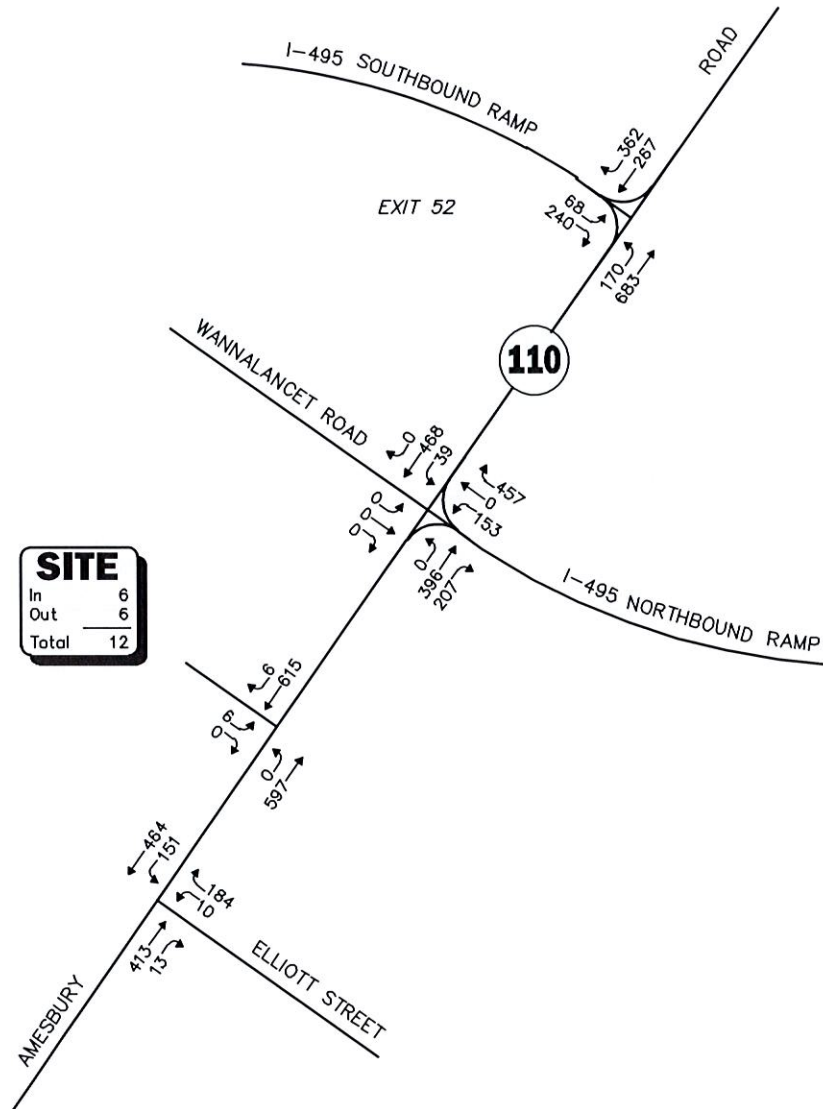
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Vanasse &
Associates inc

Figure 13

2030 Build
Weekday Morning
Peak-Hour Traffic Volumes



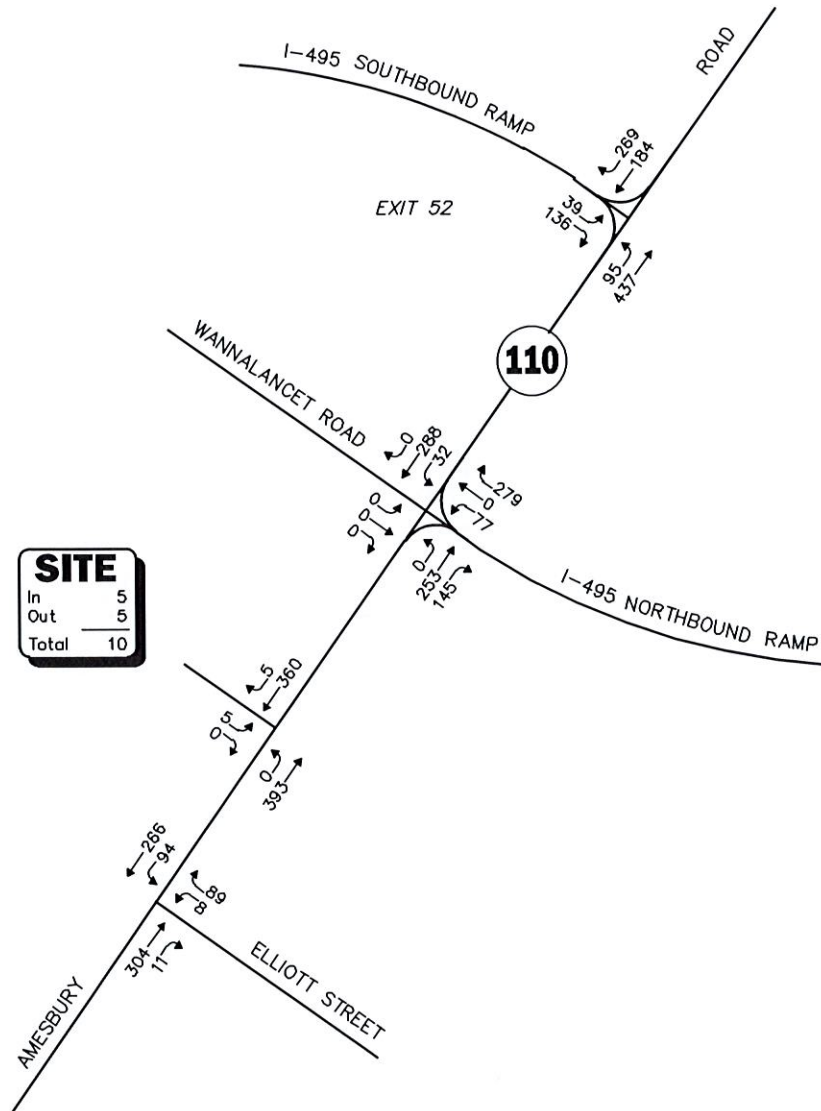
Not To Scale



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Associates inc

Figure 14

2030 Build
Weekday Evening
Peak-Hour Traffic Volumes



Not To Scale



Vanasse &
Associates inc

Figure 15

2030 Build
Saturday Midday
Peak-Hour Traffic Volumes

Table 8
PEAK-HOUR TRAFFIC-VOLUME INCREASES^a

Location/Peak Hour	2030 No-Build	2030 Build	Traffic-Volume Increase Over No-Build	Percent Increase Over No-Build
<i>Route 110, north of I-495 Southbound Ramps:</i>				
Weekday Morning	1,408	1,410	2	0.1
Weekday Evening	1,380	1,380	0	0.0
Saturday MIDDAY	929	929	0	0.0
<i>Route 110, south of Elliott Street:</i>				
Weekday Morning	786	788	2	0.3
Weekday Evening	900	900	0	0.0
Saturday MIDDAY	589	589	0	0.0
<i>I-495 Northbound Ramps, east of Route 110:</i>				
Weekday Morning	651	660	9	1.4
Weekday Evening	850	856	6	0.7
Saturday MIDDAY	529	533	4	0.8
<i>I-495 Southbound Ramps, west of Route 110:</i>				
Weekday Morning	869	879	10	1.2
Weekday Evening	834	840	6	0.7
Saturday MIDDAY	533	539	6	1.1

^aTotal of two-way traffic volume in vph.

SIGHT DISTANCE EVALUATION

Sight distance measurements were performed at the site driveway intersection with Route 110 in accordance with MassDOT and American Association of State Highway and Transportation Officials (AASHTO)⁵ recommendations. Both stopping sight distance (SSD) and intersection sight distance (ISD) measurements were performed. In brief, SSD is the distance recommended to be provided by a vehicle traveling at the design speed of a roadway, on wet pavement, to stop prior to striking an object in its travel path. ISD is the sight distance recommended to be provided by a driver entering or crossing an intersecting roadway to perceive an on-coming vehicle and safely complete a turning or crossing maneuver with on-coming traffic. ***In accordance with AASHTO standards, if the measured ISD is at least equal to the recommended SSD value for the appropriate design speed, the intersection can operate in a safe manner.*** Table 9 presents the measured SSD and ISD at the subject intersection.

⁵ *A Policy on Geometric Design of Highway and Streets*, 7th Edition; American Association of State Highway and Transportation Officials (AASHTO); Washington D.C.; 2018.

Table 9
SIGHT DISTANCE MEASUREMENTS^a

Intersection/Sight Distance Measurement	Recommended Distances (Feet)	Field Measured Distances (Feet)
	Posted Speed Limit (EB/WB) (44/43) mph on Route 110	
Route 110 at the Site Driveway		
<i>Stopping Sight Distance:</i>		
Route 110 approaching from the east	325 ^b	335
Route 110 approaching from the west	360	750+
<i>Intersection Sight Distance:</i>		
Left turn from Site Driveway (looking east)	727	750+
Left turn from Site Driveway (looking west)	744	750+

^aRecommended values obtained from *A Policy on Geometric Design of Highways and Streets*, 7th Edition; American Association of State Highway and Transportation Officials (AASHTO); 2018.

^bValue has been adjusted to account of 4.6 percent upgrade approaching the site driveway from the west.

As can be seen in Table 9, the sight distance at the intersection of the site driveway with Route 110 was found to exceed the recommended values for SSD and ISD based on a speed of 44/43 mph. These values have been adjusted for grade and also for eye height of a driver in a truck which has a higher vantage point compared with passenger vehicles.

TRAFFIC OPERATIONS ANALYSIS

Measuring existing and future traffic volumes quantify traffic flow within the study area. To assess quality of flow, roadway capacity, and vehicle queue analyses were conducted under Existing, No-Build, and Build traffic-volume conditions. Capacity analyses provide an indication of how well the roadway facilities serve the traffic demands placed upon them, with vehicle queue analyses providing a secondary measure of the operational characteristics of an intersection or section of roadway under study.

METHODOLOGY

Levels of Service

A primary result of capacity analyses is the assignment of level of service to traffic facilities under various traffic-flow conditions.⁶ The concept of level of service is defined as a qualitative measure describing operational conditions within a traffic stream and their perception by motorists and/or passengers. A level-of-service definition provides an index to quality of traffic flow in terms of such factors as speed, travel time, freedom to maneuver, traffic interruptions, comfort, convenience, and safety.

Six levels of service are defined for each type of facility. They are given letter designations from A to F, with level-of-service (LOS) A representing the best-operating conditions and LOS F representing congested or constrained operating conditions.

Since the level of service of a traffic facility is a function of the traffic flows placed upon it, such a facility may operate at a wide range of levels of service, depending on the time of day, day of week, or period of year.

⁶The capacity analysis methodology is based on the concepts and procedures presented in the *Highway Capacity Manual 6th Edition*; Transportation Research Board; Washington, DC; 2016.

Unsignalized Intersections

The six levels of service for unsignalized intersections may be described as follows:

- *LOS A* represents a condition with little or no control delay to minor street traffic.
- *LOS B* represents a condition with short control delays to minor street traffic.
- *LOS C* represents a condition with average control delays to minor street traffic.
- *LOS D* represents a condition with long control delays to minor street traffic.
- *LOS E* represents operating conditions at or near capacity level, with very long control delays to minor street traffic.
- *LOS F* represents a condition where minor street demand volume exceeds capacity of an approach lane, with extreme control delays resulting.

The levels of service of unsignalized intersections are determined by application of a procedure described in the *Highway Capacity Manual 6th Edition*. Level of service is measured in terms of average control delay. Mathematically, control delay is a function of the capacity and degree of saturation of the lane group and/or approach under study and is a quantification of motorist delay associated with traffic control devices such as traffic signals and STOP signs. Control delay includes the effects of initial deceleration delay approaching a STOP sign, stopped delay, queue move-up time, and final acceleration delay from a stopped condition. Definitions for level of service at unsignalized intersections are also given in the *Highway Capacity Manual 6th Edition*. Table 10 summarizes the relationship between level of service and average control delay for two-way STOP-controlled and all-way STOP-controlled intersections.

Table 10
LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS^a

Level-of-Service by Volume-to-Capacity Ratio		Average Control Delay (Seconds Per Vehicle)
$v/c \leq 1.0$	$v/c > 1.0$	
A	F	≤ 10.0
B	F	10.1 to 15.0
C	F	15.1 to 25.0
D	F	25.1 to 35.0
E	F	35.1 to 50.0
F	F	> 50.0

^aSource: *Highway Capacity Manual 6th Edition*; Transportation Research Board; Washington, DC; 2016; page 20-6.

ANALYSIS RESULTS

Level-of-service analyses were conducted for 2023 Existing, 2030 No-Build, and 2030 Build conditions for the study area intersections. The results of the intersection capacity analysis within the study area are described below, with a tabular summary provided in Table 11.

Unsignalized Intersection

Route 110 at the I-495 Southbound Ramps

Under 2023 Existing and 2030 No-Build conditions, the critical movements at this intersection operate at LOS D and B, and LOS E and C during the weekday morning peak hour, at LOS F and B during the weekday evening peak hour, and at LOS C and B during the Saturday midday peak hour. No changes to critical movement level of service occur as a result of the addition of Project volumes under 2030 Build conditions. Critical movement queue length remains unchanged under 2030 Build conditions compared to 2030 No-Build conditions.

Route 110 at the I-495 Northbound Ramps and Wannalancet Road

Under 2023 Existing and 2030 No-Build conditions, the critical movements at this intersection operate at LOS E, B, and A, and LOS F, C, and A during the weekday morning peak hour, at LOS F, D, and A, and LOS F, E, and A during the weekday evening peak hour, and at LOS C, B, and A during the Saturday midday peak hour. No changes to critical movement level of service occur as a result of the addition of Project volumes under 2030 Build conditions. Critical movement queue length remains unchanged under 2030 Build conditions compared to 2030 No-Build conditions.

Route 110 at Elliott Street

Under 2023 Existing 2030 No-Build conditions, the critical movement at this intersection operates at LOS B during the weekday morning peak hour, at LOS C during the weekday evening peak hour, and at LOS B during the Saturday midday peak hour. Under 2030 No-Build conditions, the critical movement at this intersection operates at LOS C during the weekday morning peak hour, at LOS C during the weekday evening peak hour, and at LOS B during the Saturday midday peak hour. No changes to critical movement level of service occur as a result of the addition of Project volumes under 2030 Build conditions. Critical movement queue length remains unchanged under 2030 Build conditions compared to 2030 No-Build conditions.

Route 110 at the Site Driveway

Under 2030 Build conditions, the critical movements at this intersection operate at LOS D during the weekday morning, at LOS E during the weekday evening peak hour, and at LOS C during the Saturday midday peak hour.

Table 11
UNSIGNALIZED INTERSECTION CAPACITY ANALYSIS SUMMARY

Unsignalized Intersection/ Critical Movement/Peak Hour	2023 Existing			2030 No-Build			2030 Build					
	Demand ^a	Delay ^b	LOS ^c	Queue ^d	Demand	Delay	LOS	Queue	Demand	Delay	LOS	Queue
Route 110 at the I-495 Southbound Ramps												
Weekday Morning:												
I-495 Southbound Ramps SB LT	27	34.0	D	1	29	41.2	E	1	29	43.1	E	1
I-495 Southbound Ramps SB RT	178	14.5	B	2	191	15.7	C	3	196	16.3	C	3
Weekday Evening:												
I-495 Southbound Ramps SB LT	63	63.4	F	3	68	98.5	F	4	68	102.5	F	4
I-495 Southbound Ramps SB RT	221	12.6	B	2	237	13.3	B	2	240	13.4	B	2
Saturday Midday:												
I-495 Southbound Ramps SB LT	36	18.9	C	1	39	20.7	C	1	39	21.0	C	1
I-495 Southbound Ramps SB RT	124	10.0	B	1	133	10.2	B	1	136	10.2	B	1
Route 110 at the I-495 Northbound Ramps and Wannalancet Road												
Weekday Morning:												
I-495 Northbound Ramps NB LT/TH	77	40.0	E	2	83	52.8	F	3	88	60.0	F	3
I-495 Northbound Ramps NB RT	269	14.1	B	2	288	15.2	C	3	288	15.4	C	3
Wannalancet Road SB LT/TH/RT	0	0.0	A	0	0	0.0	A	0	0	0.0	A	0
Weekday Evening:												
I-495 Northbound Ramps NB LT/TH	140	55.8	F	5	150	87.9	F	7	153	95.8	F	7
I-495 Northbound Ramps NB RT	426	27.4	D	7	457	37.4	E	10	457	37.8	E	10
Wannalancet Road SB LT/TH/RT	0	0.0	A	0	0	0.0	A	0	0	0.0	A	0
Saturday Midday:												
I-495 Northbound Ramps NB LT/TH	70	17.9	C	1	75	19.6	C	1	77	20.2	C	1
I-495 Northbound Ramps NB RT	260	13.1	B	2	279	14.0	B	3	279	14.1	B	3
Wannalancet Road SB LT/TH/RT	0	0.0	A	0	0	0.0	A	0	0	0.0	A	0
Route 110 at Elliott Street												
Weekday Morning:												
Elliott Street NB LT/TH/RT	155	14.7	B	2	167	16.2	C	2	167	16.2	C	2
Weekday Evening:												
Elliott Street NB LT/TH/RT	181	16.1	C	2	194	18.1	C	2	194	18.1	C	2
Saturday Midday:												
Elliott Street NB LT/TH/RT	90	11.5	B	1	97	11.9	B	1	97	11.9	B	1

See notes at end of table.

Table 11 (Continued)
UNSIGNALIZED INTERSECTION CAPACITY ANALYSIS SUMMARY

Unsignalized Intersection/ Critical Movement/Peak Hour	2023 Existing			2030 No-Build			2030 Build				
	Demand ^a	Delay ^b	LOS ^c	Queue ^d	Demand	Delay	LOS	Demand	Delay	LOS	Queue
Route 110 at the Site Driveway											
<i>Weekday Morning:</i>											
Site Driveway SB LT/RT	--	--	--	--	--	--	--	11	32.5	D	1
<i>Weekday Evening:</i>											
Site Driveway SB LT/RT	--	--	--	--	--	--	--	6	43.9	E	1
<i>Saturday Midday:</i>											
Site Driveway SB LT/RT	--	--	--	--	--	--	--	5	20.3	C	1

^aDemand in vehicles per hour.

^bDelay in seconds per vehicle.

^cLevel of service.

^d95th percentile queue length (veh).

EB = eastbound; WB = westbound; NB = northbound; SB = southbound; LT = left-turning movements; TH = through movements; RT = right-turning movements.

RECOMMENDATIONS AND CONCLUSIONS

VAI has prepared this TIA in order to evaluate potential traffic impacts associated with the proposed Diesel Fueling Facility to be located at 298 Amesbury Road in Haverhill, Massachusetts. This study was prepared in accordance with MassDOT Guidelines for *Transportation Impact Assessment (TIA)*; and was conducted pursuant to the standards of the traffic engineering and transportation planning professions for the preparation of such reports. Based on the results of this study, the following can be concluded:

- The study area intersection crash rates were observed to be lower than the MassDOT District 4 crash rates for unsignalized intersections.
- The Project is expected to generate 23 truck trips (12 entering and 11 exiting) during the weekday morning peak hour and 12 truck trips (6 entering and 6 exiting) during the weekday evening peak hour. On a Saturday midday peak hour, the Project is expected to generate 10 truck trips (5 entering and 5 exiting).
- The sight distance at the intersection of the site driveway with Route 110 was found to exceed the recommended values for SSD and ISD based on a speed of 44/43 mph.
- The analysis has indicated that the Project will generally result in minimal impact on motorist delays and vehicle queue lengths at the study intersection.

RECOMMENDATIONS

The following improvements have been recommended as a part of this evaluation:

Project Access

Access to the Project site will be provided via a new driveway onto Route 110. The following recommendations are offered with respect to the design and operation of the Project site driveway:

- The driveway should be placed under STOP-sign (*Manual on Uniform Traffic Control Devices* (MUTCD)⁷ R1-1) control, with a painted STOP-bar included.
- All signs and other pavement markings to be installed within the Project site shall conform to the applicable standards of the current MUTCD.
- Signs and landscaping adjacent to the Project site driveway should be designed and maintained so as not to restrict lines of sight.
- Snow windrows within sight triangle areas of the Project site driveway should be promptly removed where such accumulations would impede sightlines.

CONCLUSIONS

As documented in this study, Project-related traffic increases will not result in significant increases on overall traffic volumes or traffic delays within the study area. The site driveway will provide efficient access to and from the development. In general, Project-related traffic can be adequately accommodated within the existing infrastructure with minimal impact on the traffic operations within the study area.

⁷Ibid 1.

APPENDIX

TRAFFIC COUNT DATA
SEASONAL ADJUSTMENT DATA
PUBLIC TRANSPORTATION SCHEDULES
MASSDOT CRASH RATE WORKSHEETS
VEHICLE SPEED DATA
GROWTH RATE DATA
TRIP GENERATION DATA
CAPACITY ANALYSIS



TRAFFIC COUNT DATA



PDI File #: 239269 A

Location: N: I-495 NB Ramps

Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)

City, State: Haverhill, MA

Client: VAI/ A. Arseneault

Site Code: 9665

Count Date: Thursday, March 30, 2023

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



Cars and Heavy Vehicles (Combined)

	I-495 NB Ramps				Amesbury Road (Route 110)				Amesbury Road (Route 110)				Total
	from North				from East				from West				
	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	
7:00 AM	25	5	0	30	120	45	0	165	149	26	0	175	370
7:15 AM	24	7	0	31	103	42	0	145	131	32	0	163	339
7:30 AM	31	6	0	37	155	77	0	232	123	26	0	149	418
7:45 AM	57	9	0	66	117	68	0	185	86	26	0	112	363
Total	137	27	0	164	495	232	0	727	489	110	0	599	1490
8:00 AM	48	5	0	53	94	49	0	143	68	25	0	93	289
8:15 AM	55	8	0	63	83	55	0	138	61	19	0	80	281
8:30 AM	51	12	0	63	81	63	0	144	63	35	0	98	305
8:45 AM	57	7	0	64	61	54	0	115	60	16	0	76	255
Total	211	32	0	243	319	221	0	540	252	95	0	347	1130
Grand Total	348	59	0	407	814	453	0	1267	741	205	0	946	2620
Approach %	85.5	14.5	0.0		64.2	35.8	0.0		78.3	21.7	0.0		
Total %	13.3	2.3	0.0	15.5	31.1	17.3	0.0	48.4	28.3	7.8	0.0	36.1	
Exiting Leg Total	1019				800				801				2620
Cars	342	57	0	399	805	435	0	1240	698	197	0	895	2534
% Cars	98.3	96.6	0.0	98.0	98.9	96.0	0.0	97.9	94.2	96.1	0.0	94.6	96.7
Exiting Leg Total	1002				755				777				2534
Heavy Vehicles	6	2	0	8	9	18	0	27	43	8	0	51	86
% Heavy Vehicles	1.7	3.4	0.0	2.0	1.1	4.0	0.0	2.1	5.8	3.9	0.0	5.4	3.3
Exiting Leg Total	17				45				24				86

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	I-495 NB Ramps				Amesbury Road (Route 110)				Amesbury Road (Route 110)				Total
	from North				from East				from West				
	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	
7:00 AM	25	5	0	30	120	45	0	165	149	26	0	175	370
7:15 AM	24	7	0	31	103	42	0	145	131	32	0	163	339
7:30 AM	31	6	0	37	155	77	0	232	123	26	0	149	418
7:45 AM	57	9	0	66	117	68	0	185	86	26	0	112	363
Total Volume	137	27	0	164	495	232	0	727	489	110	0	599	1490
% Approach Total	83.5	16.5	0.0		68.1	31.9	0.0		81.6	18.4	0.0		
PHF	0.601	0.750	0.000	0.621	0.798	0.753	0.000	0.783	0.820	0.859	0.000	0.856	0.891
Cars	136	26	0	162	490	226	0	716	458	108	0	566	1444
Cars %	99.3	96.3	0.0	98.8	99.0	97.4	0.0	98.5	93.7	98.2	0.0	94.5	96.9
Heavy Vehicles	1	1	0	2	5	6	0	11	31	2	0	33	46
Heavy Vehicles %	0.7	3.7	0.0	1.2	1.0	2.6	0.0	1.5	6.3	1.8	0.0	5.5	3.1
Cars Enter Leg	136	26	0	162	490	226	0	716	458	108	0	566	1444
Heavy Enter Leg	1	1	0	2	5	6	0	11	31	2	0	33	46
Total Entering Leg	137	27	0	164	495	232	0	727	489	110	0	599	1490
Cars Exiting Leg	598				484				362				1444
Heavy Exiting Leg	7				32				7				46
Total Exiting Leg	605				516				369				1490

PDI File #: 239269 A
 Location: N: I-495 NB Ramps
 Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)
 City, State: Haverhill, MA
 Client: VAI/ A. Arseneault
 Site Code: 9665
 Count Date: Thursday, March 30, 2023
 Start Time: 4:00 PM
 End Time: 6:00 PM
 Class:



Cars and Heavy Vehicles (Combined)

	I-495 NB Ramps				Amesbury Road (Route 110)				Amesbury Road (Route 110)				Total
	from North				from East				from West				
	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	
4:00 PM	63	8	0	71	70	66	0	136	163	40	0	203	410
4:15 PM	50	18	0	68	117	65	0	182	179	38	0	217	467
4:30 PM	65	19	0	84	74	59	0	133	127	42	0	169	386
4:45 PM	43	18	0	61	77	59	0	136	168	36	0	204	401
Total	221	63	0	284	338	249	0	587	637	156	0	793	1664
5:00 PM	58	15	1	74	61	53	0	114	130	37	0	167	355
5:15 PM	71	16	0	87	60	44	0	104	148	37	0	185	376
5:30 PM	63	11	0	74	45	44	0	89	134	27	0	161	324
5:45 PM	48	9	0	57	42	44	0	86	96	20	0	116	259
Total	240	51	1	292	208	185	0	393	508	121	0	629	1314
Grand Total	461	114	1	576	546	434	0	980	1145	277	0	1422	2978
Approach %	80.0	19.8	0.2		55.7	44.3	0.0		80.5	19.5	0.0		
Total %	15.5	3.8	0.0	19.3	18.3	14.6	0.0	32.9	38.4	9.3	0.0	47.8	
Exiting Leg Total	824				1259				895				2978
Cars	454	114	1	569	534	430	0	964	1129	275	0	1404	2937
% Cars	98.5	100.0	100.0	98.8	97.8	99.1	0.0	98.4	98.6	99.3	0.0	98.7	98.6
Exiting Leg Total	810				1243				884				2937
Heavy Vehicles	7	0	0	7	12	4	0	16	16	2	0	18	41
% Heavy Vehicles	1.5	0.0	0.0	1.2	2.2	0.9	0.0	1.6	1.4	0.7	0.0	1.3	1.4
Exiting Leg Total	14				16				11				41

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	I-495 NB Ramps				Amesbury Road (Route 110)				Amesbury Road (Route 110)				Total
	from North				from East				from West				
	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	
4:00 PM	63	8	0	71	70	66	0	136	163	40	0	203	410
4:15 PM	50	18	0	68	117	65	0	182	179	38	0	217	467
4:30 PM	65	19	0	84	74	59	0	133	127	42	0	169	386
4:45 PM	43	18	0	61	77	59	0	136	168	36	0	204	401
Total Volume	221	63	0	284	338	249	0	587	637	156	0	793	1664
% Approach Total	77.8	22.2	0.0		57.6	42.4	0.0		80.3	19.7	0.0		
PHF	0.850	0.829	0.000	0.845	0.722	0.943	0.000	0.806	0.890	0.929	0.000	0.914	0.891
Cars	215	63	0	278	334	247	0	581	626	156	0	782	1641
Cars %	97.3	100.0	0.0	97.9	98.8	99.2	0.0	99.0	98.3	100.0	0.0	98.6	98.6
Heavy Vehicles	6	0	0	6	4	2	0	6	11	0	0	11	23
Heavy Vehicles %	2.7	0.0	0.0	2.1	1.2	0.8	0.0	1.0	1.7	0.0	0.0	1.4	1.4
Cars Enter Leg	215	63	0	278	334	247	0	581	626	156	0	782	1641
Heavy Enter Leg	6	0	0	6	4	2	0	6	11	0	0	11	23
Total Entering Leg	221	63	0	284	338	249	0	587	637	156	0	793	1664
Cars Exiting Leg				490				689				462	1641
Heavy Exiting Leg				4				11				8	23
Total Exiting Leg				494				700				470	1664

PDI File #: 239269 A

Location: N: I-495 NB Ramps

Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)

City, State: Haverhill, MA

Client: VAI/ A. Arseneault

Site Code: 9665

Count Date: Saturday, April 1, 2023

Start Time: 11:00 AM

End Time: 2:00 PM

Class:



Cars and Heavy Vehicles (Combined)

	I-495 NB Ramps				Amesbury Road (Route 110)				Amesbury Road (Route 110)				Total
	from North				from East				from West				
	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	
11:00 AM	23	9	1	33	60	32	0	92	78	17	0	95	220
11:15 AM	28	7	0	35	52	33	0	85	59	23	0	82	202
11:30 AM	32	6	1	39	58	36	0	94	67	23	0	90	223
11:45 AM	31	10	0	41	51	37	0	88	84	24	0	108	237
Total	114	32	2	148	221	138	0	359	288	87	0	375	882
12:00 PM	30	9	0	39	53	37	0	90	77	32	0	109	238
12:15 PM	34	7	0	41	64	52	0	116	95	19	0	114	271
12:30 PM	25	13	0	38	73	38	0	111	95	34	0	129	278
12:45 PM	34	6	0	40	59	39	0	98	119	21	0	140	278
Total	123	35	0	158	249	166	0	415	386	106	0	492	1065
1:00 PM	31	10	0	41	55	43	0	98	90	10	0	100	239
1:15 PM	40	12	0	52	57	44	0	101	71	11	0	82	235
1:30 PM	31	6	0	37	45	39	0	84	76	13	0	89	210
1:45 PM	29	9	0	38	48	40	0	88	85	16	1	102	228
Total	131	37	0	168	205	166	0	371	322	50	1	373	912
Grand Total	368	104	2	474	675	470	0	1145	996	243	1	1240	2859
Approach %	77.6	21.9	0.4		59.0	41.0	0.0		80.3	19.6	0.1		
Total %	12.9	3.6	0.1	16.6	23.6	16.4	0.0	40.0	34.8	8.5	0.0	43.4	
Exiting Leg Total	920				1100				839				2859
Cars	361	103	2	466	670	465	0	1135	988	238	1	1227	2828
% Cars	98.1	99.0	100.0	98.3	99.3	98.9	0.0	99.1	99.2	97.9	100.0	99.0	98.9
Exiting Leg Total	910				1091				827				2828
Heavy Vehicles	7	1	0	8	5	5	0	10	8	5	0	13	31
% Heavy Vehicles	1.9	1.0	0.0	1.7	0.7	1.1	0.0	0.9	0.8	2.1	0.0	1.0	1.1
Exiting Leg Total	10				9				12				31

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:15 PM	I-495 NB Ramps				Amesbury Road (Route 110)				Amesbury Road (Route 110)				Total
	from North				from East				from West				
	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	
12:15 PM	34	7	0	41	64	52	0	116	95	19	0	114	271
12:30 PM	25	13	0	38	73	38	0	111	95	34	0	129	278
12:45 PM	34	6	0	40	59	39	0	98	119	21	0	140	278
1:00 PM	31	10	0	41	55	43	0	98	90	10	0	100	239
Total Volume	124	36	0	160	251	172	0	423	399	84	0	483	1066
% Approach Total	77.5	22.5	0.0		59.3	40.7	0.0		82.6	17.4	0.0		
PHF	0.912	0.692	0.000	0.976	0.860	0.827	0.000	0.912	0.838	0.618	0.000	0.863	0.959
Cars	119	36	0	155	249	170	0	419	394	83	0	477	1051
Cars %	96.0	100.0	0.0	96.9	99.2	98.8	0.0	99.1	98.7	98.8	0.0	98.8	98.6
Heavy Vehicles	5	0	0	5	2	2	0	4	5	1	0	6	15
Heavy Vehicles %	4.0	0.0	0.0	3.1	0.8	1.2	0.0	0.9	1.3	1.2	0.0	1.2	1.4
Cars Enter Leg	119	36	0	155	249	170	0	419	394	83	0	477	1051
Heavy Enter Leg	5	0	0	5	2	2	0	4	5	1	0	6	15
Total Entering Leg	124	36	0	160	251	172	0	423	399	84	0	483	1066
Cars Exiting Leg				332				430				289	1051
Heavy Exiting Leg				3				5				7	15
Total Exiting Leg				335				435				296	1066

PDI File #: 239269 B

Location: N: Wannalancet Road S: I-495 SB Ramps

Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)

City, State: Haverhill, MA

Client: VAI/ A. Arseneault

Site Code: 9665

Count Date: Thursday, March 30, 2023

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



Cars and Heavy Vehicles (Combined)

	Wannalancet Road					Amesbury Road (Route 110)					I-495 SB Ramps					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	51	16	0	67	79	0	7	0	86	48	95	0	0	143	296
7:15 AM	0	0	0	0	0	0	58	13	0	71	68	0	12	0	80	48	93	0	0	141	292
7:30 AM	0	0	0	0	0	0	94	15	0	109	71	0	14	0	85	50	78	0	0	128	322
7:45 AM	0	0	0	0	0	0	111	13	0	124	48	0	24	0	72	58	61	0	0	119	315
Total	0	0	0	0	0	0	314	57	0	371	266	0	57	0	323	204	327	0	0	531	1225
8:00 AM	0	0	0	0	0	0	78	16	0	94	38	0	26	0	64	47	58	0	0	105	263
8:15 AM	0	0	0	0	0	0	99	11	0	110	34	0	28	0	62	44	50	0	0	94	266
8:30 AM	0	0	0	0	0	0	100	16	0	116	41	0	36	0	77	53	59	0	0	112	305
8:45 AM	0	0	0	0	0	0	97	11	0	108	37	0	39	0	76	49	53	0	0	102	286
Total	0	0	0	0	0	0	374	54	0	428	150	0	129	0	279	193	220	0	0	413	1120
Grand Total	0	0	0	0	0	0	688	111	0	799	416	0	186	0	602	397	547	0	0	944	2345
Approach %	0.0	0.0	0.0	0.0		0.0	86.1	13.9	0.0		69.1	0.0	30.9	0.0		42.1	57.9	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	29.3	4.7	0.0	34.1	17.7	0.0	7.9	0.0	25.7	16.9	23.3	0.0	0.0	40.3	
Exiting Leg Total	0					963					508					874					2345
Cars	0	0	0	0	0	0	661	109	0	770	388	0	179	0	567	385	522	0	0	907	2244
% Cars	0.0	0.0	0.0	0.0	0.0	0.0	96.1	98.2	0.0	96.4	93.3	0.0	96.2	0.0	94.2	97.0	95.4	0.0	0.0	96.1	95.7
Exiting Leg Total	0					910					494					840					2244
Heavy Vehicles	0	0	0	0	0	0	27	2	0	29	28	0	7	0	35	12	25	0	0	37	101
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	3.9	1.8	0.0	3.6	6.7	0.0	3.8	0.0	5.8	3.0	4.6	0.0	0.0	3.9	4.3
Exiting Leg Total	0					53					14					34					101

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Wannalancet Road					Amesbury Road (Route 110)					I-495 SB Ramps					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	51	16	0	67	79	0	7	0	86	48	95	0	0	143	296
7:15 AM	0	0	0	0	0	0	58	13	0	71	68	0	12	0	80	48	93	0	0	141	292
7:30 AM	0	0	0	0	0	0	94	15	0	109	71	0	14	0	85	50	78	0	0	128	322
7:45 AM	0	0	0	0	0	0	111	13	0	124	48	0	24	0	72	58	61	0	0	119	315
Total Volume	0	0	0	0	0	0	314	57	0	371	266	0	57	0	323	204	327	0	0	531	1225
% Approach Total	0.0	0.0	0.0	0.0		0.0	84.6	15.4	0.0		82.4	0.0	17.6	0.0		38.4	61.6	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.707	0.891	0.000	0.748	0.842	0.000	0.594	0.000	0.939	0.879	0.861	0.000	0.000	0.928	0.951
Cars	0	0	0	0	0	0	308	55	0	363	247	0	54	0	301	199	315	0	0	514	1178
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	98.1	96.5	0.0	97.8	92.9	0.0	94.7	0.0	93.2	97.5	96.3	0.0	0.0	96.8	96.2
Heavy Vehicles	0	0	0	0	0	0	6	2	0	8	19	0	3	0	22	5	12	0	0	17	47
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.5	0.0	2.2	7.1	0.0	5.3	0.0	6.8	2.5	3.7	0.0	0.0	3.2	3.8
Cars Enter Leg	0	0	0	0	0	0	308	55	0	363	247	0	54	0	301	199	315	0	0	514	1178
Heavy Enter Leg	0	0	0	0	0	0	6	2	0	8	19	0	3	0	22	5	12	0	0	17	47
Total Entering Leg	0	0	0	0	0	0	314	57	0	371	266	0	57	0	323	204	327	0	0	531	1225
Cars Exiting Leg						562					254					362					1178
Heavy Exiting Leg						31					7					9					47
Total Exiting Leg	0					593					261					371					1225

PDI File #: 239269 B

Location: N: Wannalancet Road S: I-495 SB Ramps

Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)

City, State: Haverhill, MA

Client: VAI/ A. Arseneault

Site Code: 9665

Count Date: Thursday, March 30, 2023

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



PRECISION
DATA
INDUSTRIES, LLC

157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Wannalancet Road					Amesbury Road (Route 110)					I-495 SB Ramps					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	118	13	0	131	94	0	37	0	131	40	109	0	0	149	411
4:15 PM	0	0	0	0	0	0	105	6	0	111	113	0	35	0	148	63	92	0	0	155	414
4:30 PM	0	0	0	0	0	0	105	10	0	115	85	0	30	0	115	45	79	0	0	124	354
4:45 PM	0	0	0	0	0	0	100	7	0	107	124	0	38	0	162	42	79	0	0	121	390
Total	0	0	0	0	0	0	428	36	0	464	416	0	140	0	556	190	359	0	0	549	1569
5:00 PM	0	0	0	0	0	0	97	14	0	111	96	0	38	0	134	52	84	0	0	136	381
5:15 PM	1	0	0	0	1	0	110	6	0	116	113	0	26	0	139	61	79	0	0	140	396
5:30 PM	0	0	0	0	0	0	104	13	0	117	104	0	31	1	136	39	66	0	0	105	358
5:45 PM	0	0	0	0	0	0	85	6	0	91	70	0	49	0	119	36	45	0	0	81	291
Total	1	0	0	0	1	0	396	39	0	435	383	0	144	1	528	188	274	0	0	462	1426
Grand Total	1	0	0	0	1	0	824	75	0	899	799	0	284	1	1084	378	633	0	0	1011	2995
Approach %	100.0	0.0	0.0	0.0		0.0	91.7	8.3	0.0		73.7	0.0	26.2	0.1		37.4	62.6	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	27.5	2.5	0.0	30.0	26.7	0.0	9.5	0.0	36.2	12.6	21.1	0.0	0.0	33.8	
Exiting Leg Total	0					1432					454					1109					2995
Cars	1	0	0	0	1	0	810	74	0	884	782	0	280	1	1063	376	624	0	0	1000	2948
% Cars	100.0	0.0	0.0	0.0	100.0	0.0	98.3	98.7	0.0	98.3	97.9	0.0	98.6	100.0	98.1	99.5	98.6	0.0	0.0	98.9	98.4
Exiting Leg Total	0					1406					451					1091					2948
Heavy Vehicles	0	0	0	0	0	0	14	1	0	15	17	0	4	0	21	2	9	0	0	11	47
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.3	0.0	1.7	2.1	0.0	1.4	0.0	1.9	0.5	1.4	0.0	0.0	1.1	1.6
Exiting Leg Total	0					26					3					18					47

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Wannalancet Road					Amesbury Road (Route 110)					I-495 SB Ramps					Amesbury Road (Route 110)							
	from North					from East					from South					from West							
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total			
4:00 PM	0	0	0	0	0	0	118	13	0	131	94	0	37	0	131	40	109	0	0	149	411		
4:15 PM	0	0	0	0	0	0	105	6	0	111	113	0	35	0	148	63	92	0	0	155	414		
4:30 PM	0	0	0	0	0	0	105	10	0	115	85	0	30	0	115	45	79	0	0	124	354		
4:45 PM	0	0	0	0	0	0	100	7	0	107	124	0	38	0	162	42	79	0	0	121	390		
Total Volume	0	0	0	0	0	0	428	36	0	464	416	0	140	0	556	190	359	0	0	549	1569		
% Approach Total	0.0	0.0	0.0	0.0		0.0	92.2	7.8	0.0		74.8	0.0	25.2	0.0		34.6	65.4	0.0	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.907	0.692	0.000	0.885	0.839	0.000	0.921	0.000	0.858	0.754	0.823	0.000	0.000	0.885	0.947		
Cars	0	0	0	0	0	0	417	36	0	453	403	0	138	0	541	189	355	0	0	544	1538		
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	97.4	100.0	0.0	97.6	96.9	0.0	98.6	0.0	97.3	99.5	98.9	0.0	0.0	99.1	98.0		
Heavy Vehicles	0	0	0	0	0	0	11	0	0	11	13	0	2	0	15	1	4	0	0	5	31		
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.4	3.1	0.0	1.4	0.0	2.7	0.5	1.1	0.0	0.0	0.9	2.0		
Cars Enter Leg	0	0	0	0	0	0	417	36	0	453	403	0	138	0	541	189	355	0	0	544	1538		
Heavy Enter Leg	0	0	0	0	0	0	11	0	0	11	13	0	2	0	15	1	4	0	0	5	31		
Total Entering Leg	0	0	0	0	0	0	428	36	0	464	416	0	140	0	556	190	359	0	0	549	1569		
Cars Exiting Leg						0					758					225						555	1538
Heavy Exiting Leg						0					17					1						13	31
Total Exiting Leg						0					775					226						568	1569

PDI File #: 239269 B

Location: N: Wannalancet Road S: I-495 SB Ramps

Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)

City, State: Haverhill, MA

Client: VAI/ A. Arseneault

Site Code: 9665

Count Date: Saturday, April 1, 2023

Start Time: 11:00 AM

End Time: 2:00 PM

Class:



Cars and Heavy Vehicles (Combined)

	Wannalancet Road					Amesbury Road (Route 110)					I-495 SB Ramps					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	45	13	0	58	49	0	7	0	56	27	48	0	0	75	189
11:15 AM	0	0	0	0	0	0	59	9	0	68	38	0	11	0	49	40	48	0	0	88	205
11:30 AM	0	0	0	0	0	0	66	6	0	72	37	0	20	0	57	31	49	0	0	80	209
11:45 AM	0	0	0	0	0	0	55	13	0	68	48	0	10	0	58	37	62	0	0	99	225
Total	0	0	0	0	0	0	225	41	0	266	172	0	48	0	220	135	207	0	0	342	828
12:00 PM	0	0	0	0	0	0	58	12	0	70	52	0	19	0	71	37	60	0	0	97	238
12:15 PM	0	0	0	0	0	0	83	4	0	87	58	0	12	0	70	36	56	0	0	92	249
12:30 PM	0	0	0	0	0	0	52	6	0	58	61	0	16	0	77	29	65	0	0	94	229
12:45 PM	0	0	0	0	0	0	64	7	0	71	89	0	23	0	112	31	52	0	0	83	266
Total	0	0	0	0	0	0	257	29	0	286	260	0	70	0	330	133	233	0	0	366	982
1:00 PM	0	0	0	0	0	0	62	11	0	73	58	0	18	0	76	31	43	0	0	74	223
1:15 PM	0	0	0	0	0	0	78	12	0	90	31	0	19	0	50	27	50	0	0	77	217
1:30 PM	0	0	0	0	0	0	57	10	0	67	57	0	14	0	71	36	43	0	0	79	217
1:45 PM	0	0	0	0	0	0	58	14	0	72	51	0	9	0	60	34	44	0	0	78	210
Total	0	0	0	0	0	0	255	47	0	302	197	0	60	0	257	128	180	0	0	308	867
Grand Total	0	0	0	0	0	0	737	117	0	854	629	0	178	0	807	396	620	0	0	1016	2677
Approach %	0.0	0.0	0.0	0.0		0.0	86.3	13.7	0.0		77.9	0.0	22.1	0.0		39.0	61.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	27.5	4.4	0.0	31.9	23.5	0.0	6.6	0.0	30.1	14.8	23.2	0.0	0.0	38.0	
Exiting Leg Total	0					1249					513					915					2677
Cars	0	0	0	0	0	0	719	117	0	836	622	0	172	0	794	388	611	0	0	999	2629
% Cars	0.0	0.0	0.0	0.0	0.0	0.0	97.6	100.0	0.0	97.9	98.9	0.0	96.6	0.0	98.4	98.0	98.5	0.0	0.0	98.3	98.2
Exiting Leg Total	0					1233					505					891					2629
Heavy Vehicles	0	0	0	0	0	0	18	0	0	18	7	0	6	0	13	8	9	0	0	17	48
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	2.1	1.1	0.0	3.4	0.0	1.6	2.0	1.5	0.0	0.0	1.7	1.8
Exiting Leg Total	0					16					8					24					48

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:00 PM	Wannalancet Road					Amesbury Road (Route 110)					I-495 SB Ramps					Amesbury Road (Route 110)					Total		
	from North					from East					from South					from West							
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total			
12:00 PM	0	0	0	0	0	0	58	12	0	70	52	0	19	0	71	37	60	0	0	97	238		
12:15 PM	0	0	0	0	0	0	83	4	0	87	58	0	12	0	70	36	56	0	0	92	249		
12:30 PM	0	0	0	0	0	0	52	6	0	58	61	0	16	0	77	29	65	0	0	94	229		
12:45 PM	0	0	0	0	0	0	64	7	0	71	89	0	23	0	112	31	52	0	0	83	266		
Total Volume	0	0	0	0	0	0	257	29	0	286	260	0	70	0	330	133	233	0	0	366	982		
% Approach Total	0.0	0.0	0.0	0.0		0.0	89.9	10.1	0.0		78.8	0.0	21.2	0.0		36.3	63.7	0.0	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.774	0.604	0.000	0.822	0.730	0.000	0.761	0.000	0.737	0.899	0.896	0.000	0.000	0.943	0.923		
Cars	0	0	0	0	0	0	248	29	0	277	255	0	68	0	323	132	230	0	0	362	962		
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	96.5	100.0	0.0	96.9	98.1	0.0	97.1	0.0	97.9	99.2	98.7	0.0	0.0	98.9	98.0		
Heavy Vehicles	0	0	0	0	0	0	9	0	0	9	5	0	2	0	7	1	3	0	0	4	20		
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	3.1	1.9	0.0	2.9	0.0	2.1	0.8	1.3	0.0	0.0	1.1	2.0		
Cars Enter Leg	0	0	0	0	0	0	248	29	0	277	255	0	68	0	323	132	230	0	0	362	962		
Heavy Enter Leg	0	0	0	0	0	0	9	0	0	9	5	0	2	0	7	1	3	0	0	4	20		
Total Entering Leg	0	0	0	0	0	0	257	29	0	286	260	0	70	0	330	133	233	0	0	366	982		
Cars Exiting Leg						0					485					161						316	962
Heavy Exiting Leg						0					8					1						11	20
Total Exiting Leg						0					493					162						327	982

PDI File #: 239269 C
 Location: N: Greenleaf Driveway S: Elliott Street
 Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)
 City, State: Haverhill, MA
 Client: VAI/ A. Arseneault
 Site Code: 9665
 Count Date: Thursday, March 30, 2023
 Start Time: 7:00 AM
 End Time: 9:00 AM
 Class:



Cars and Heavy Vehicles (Combined)

	Greenleaf Driveway					Amesbury Road (Route 110)					Elliott Street					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	42	16	0	58	36	0	1	0	37	1	107	0	0	108	203
7:15 AM	0	0	0	0	0	0	49	22	0	71	30	0	2	0	32	0	112	0	0	112	215
7:30 AM	0	0	0	0	0	0	86	22	0	108	33	0	2	0	35	1	96	0	0	97	240
7:45 AM	0	0	0	0	0	0	85	50	0	135	36	0	3	0	39	0	83	0	0	83	257
Total	0	0	0	0	0	0	262	110	0	372	135	0	8	0	143	2	398	0	0	400	915
8:00 AM	0	0	0	0	0	0	65	39	0	104	25	0	1	0	26	5	77	0	0	82	212
8:15 AM	0	0	0	0	0	0	93	32	0	125	23	0	3	0	26	2	70	0	0	72	223
8:30 AM	0	0	0	0	0	0	86	50	0	136	34	0	1	0	35	0	80	0	0	80	251
8:45 AM	0	0	0	0	0	0	66	72	0	138	26	0	1	0	27	2	75	0	0	77	242
Total	0	0	0	0	0	0	310	193	0	503	108	0	6	0	114	9	302	0	0	311	928
Grand Total	0	0	0	0	0	0	572	303	0	875	243	0	14	0	257	11	700	0	0	711	1843
Approach %	0.0	0.0	0.0	0.0		0.0	65.4	34.6	0.0		94.6	0.0	5.4	0.0		1.5	98.5	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	31.0	16.4	0.0	47.5	13.2	0.0	0.8	0.0	13.9	0.6	38.0	0.0	0.0	38.6	
Exiting Leg Total	0					943					314					586					1843
Cars	0	0	0	0	0	0	551	293	0	844	233	0	13	0	246	8	671	0	0	679	1769
% Cars	0.0	0.0	0.0	0.0	0.0	0.0	96.3	96.7	0.0	96.5	95.9	0.0	92.9	0.0	95.7	72.7	95.9	0.0	0.0	95.5	96.0
Exiting Leg Total	0					904					301					564					1769
Heavy Vehicles	0	0	0	0	0	0	21	10	0	31	10	0	1	0	11	3	29	0	0	32	74
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.3	0.0	3.5	4.1	0.0	7.1	0.0	4.3	27.3	4.1	0.0	0.0	4.5	4.0
Exiting Leg Total	0					39					13					22					74

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Greenleaf Driveway					Amesbury Road (Route 110)					Elliott Street					Amesbury Road (Route 110)					Total		
	from North					from East					from South					from West							
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total			
7:45 AM	0	0	0	0	0	0	85	50	0	135	36	0	3	0	39	0	83	0	0	83	257		
8:00 AM	0	0	0	0	0	0	65	39	0	104	25	0	1	0	26	5	77	0	0	82	212		
8:15 AM	0	0	0	0	0	0	93	32	0	125	23	0	3	0	26	2	70	0	0	72	223		
8:30 AM	0	0	0	0	0	0	86	50	0	136	34	0	1	0	35	0	80	0	0	80	251		
Total Volume	0	0	0	0	0	0	329	171	0	500	118	0	8	0	126	7	310	0	0	317	943		
% Approach Total	0.0	0.0	0.0	0.0		0.0	65.8	34.2	0.0		93.7	0.0	6.3	0.0		2.2	97.8	0.0	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.884	0.855	0.000	0.919	0.819	0.000	0.667	0.000	0.808	0.350	0.934	0.000	0.000	0.955	0.917		
Cars	0	0	0	0	0	0	316	164	0	480	114	0	7	0	121	6	300	0	0	306	907		
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	96.0	95.9	0.0	96.0	96.6	0.0	87.5	0.0	96.0	85.7	96.8	0.0	0.0	96.5	96.2		
Heavy Vehicles	0	0	0	0	0	0	13	7	0	20	4	0	1	0	5	1	10	0	0	11	36		
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.1	0.0	4.0	3.4	0.0	12.5	0.0	4.0	14.3	3.2	0.0	0.0	3.5	3.8		
Cars Enter Leg	0	0	0	0	0	0	316	164	0	480	114	0	7	0	121	6	300	0	0	306	907		
Heavy Enter Leg	0	0	0	0	0	0	13	7	0	20	4	0	1	0	5	1	10	0	0	11	36		
Total Entering Leg	0	0	0	0	0	0	329	171	0	500	118	0	8	0	126	7	310	0	0	317	943		
Cars Exiting Leg						0										170						323	907
Heavy Exiting Leg						0										8						14	36
Total Exiting Leg						0										178						337	943

PDI File #: 239269 C

Location: N: Greenleaf Driveway S: Elliott Street

Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)

City, State: Haverhill, MA

Client: VAI/ A. Arseneault

Site Code: 9665

Count Date: Thursday, March 30, 2023

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



PRECISION
DATA
INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Greenleaf Driveway					Amesbury Road (Route 110)					Elliott Street					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	116	36	0	152	45	0	2	0	47	2	105	0	0	107	306
4:15 PM	0	0	0	0	0	0	106	32	0	138	44	0	2	0	46	7	111	0	0	118	302
4:30 PM	0	0	0	0	0	0	103	35	0	138	46	0	4	0	50	1	80	0	0	81	269
4:45 PM	0	0	0	0	0	0	101	36	0	137	35	0	1	0	36	2	84	0	0	86	259
Total	0	0	0	0	0	0	426	139	0	565	170	0	9	0	179	12	380	0	0	392	1136
5:00 PM	0	0	0	0	0	0	101	33	0	134	45	0	4	0	49	2	91	0	0	93	276
5:15 PM	0	0	0	0	0	0	105	33	0	138	48	0	2	0	50	2	92	0	0	94	282
5:30 PM	0	0	0	0	0	0	97	36	1	134	26	0	0	0	26	1	78	0	0	79	239
5:45 PM	0	0	0	0	0	0	82	52	0	134	20	0	1	0	21	3	60	0	0	63	218
Total	0	0	0	0	0	0	385	154	1	540	139	0	7	0	146	8	321	0	0	329	1015
Grand Total	0	0	0	0	0	0	811	293	1	1105	309	0	16	0	325	20	701	0	0	721	2151
Approach %	0.0	0.0	0.0	0.0		0.0	73.4	26.5	0.1		95.1	0.0	4.9	0.0		2.8	97.2	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	37.7	13.6	0.0	51.4	14.4	0.0	0.7	0.0	15.1	0.9	32.6	0.0	0.0	33.5	
Exiting Leg Total	0					1011					313					827					2151
Cars	0	0	0	0	0	0	798	289	1	1088	306	0	16	0	322	18	694	0	0	712	2122
% Cars	0.0	0.0	0.0	0.0	0.0	0.0	98.4	98.6	100.0	98.5	99.0	0.0	100.0	0.0	99.1	90.0	99.0	0.0	0.0	98.8	98.7
Exiting Leg Total	0					1001					307					814					2122
Heavy Vehicles	0	0	0	0	0	0	13	4	0	17	3	0	0	0	3	2	7	0	0	9	29
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.4	0.0	1.5	1.0	0.0	0.0	0.0	0.9	10.0	1.0	0.0	0.0	1.2	1.3
Exiting Leg Total	0					10					6					13					29

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Greenleaf Driveway					Amesbury Road (Route 110)					Elliott Street					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	116	36	0	152	45	0	2	0	47	2	105	0	0	107	306
4:15 PM	0	0	0	0	0	0	106	32	0	138	44	0	2	0	46	7	111	0	0	118	302
4:30 PM	0	0	0	0	0	0	103	35	0	138	46	0	4	0	50	1	80	0	0	81	269
4:45 PM	0	0	0	0	0	0	101	36	0	137	35	0	1	0	36	2	84	0	0	86	259
Total Volume	0	0	0	0	0	0	426	139	0	565	170	0	9	0	179	12	380	0	0	392	1136
% Approach Total	0.0	0.0	0.0	0.0		0.0	75.4	24.6	0.0		95.0	0.0	5.0	0.0		3.1	96.9	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.918	0.965	0.000	0.929	0.924	0.000	0.563	0.000	0.895	0.429	0.856	0.000	0.000	0.831	0.928
Cars	0	0	0	0	0	0	418	137	0	555	169	0	9	0	178	11	376	0	0	387	1120
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	98.1	98.6	0.0	98.2	99.4	0.0	100.0	0.0	99.4	91.7	98.9	0.0	0.0	98.7	98.6
Heavy Vehicles	0	0	0	0	0	0	8	2	0	10	1	0	0	0	1	1	4	0	0	5	16
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.4	0.0	1.8	0.6	0.0	0.0	0.0	0.6	8.3	1.1	0.0	0.0	1.3	1.4
Cars Enter Leg	0	0	0	0	0	0	418	137	0	555	169	0	9	0	178	11	376	0	0	387	1120
Heavy Enter Leg	0	0	0	0	0	0	8	2	0	10	1	0	0	0	1	1	4	0	0	5	16
Total Entering Leg	0	0	0	0	0	0	426	139	0	565	170	0	9	0	179	12	380	0	0	392	1136
Cars Exiting Leg	0					545					148					427					1120
Heavy Exiting Leg	0					5					3					8					16
Total Exiting Leg	0					550					151					435					1136

PDI File #: 239269 C
 Location: N: Greenleaf Driveway S: Elliott Street
 Location: E: Amesbury Road (Route 110) W: Amesbury Road (Route 110)
 City, State: Haverhill, MA
 Client: VAI/ A. Arseneault
 Site Code: 9665
 Count Date: Saturday, April 1, 2023
 Start Time: 11:00 AM
 End Time: 2:00 PM
 Class:



Cars and Heavy Vehicles (Combined)

	Greenleaf Driveway					Amesbury Road (Route 110)					Elliott Street					Amesbury Road (Route 110)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	0	0	0	0	0	40	14	0	54	10	0	1	0	11	1	64	0	0	65	130
11:15 AM	0	0	0	0	0	0	53	15	0	68	25	0	2	0	27	1	65	0	0	66	161
11:30 AM	0	0	0	0	0	0	62	20	0	82	16	0	1	0	17	2	64	0	0	66	165
11:45 AM	0	0	0	0	0	0	51	15	0	66	26	0	2	0	28	1	73	0	0	74	168
Total	0	0	0	0	0	0	206	64	0	270	77	0	6	0	83	5	266	0	0	271	624
12:00 PM	0	0	0	0	0	0	62	16	0	78	23	0	3	0	26	3	74	0	0	77	181
12:15 PM	0	0	0	0	0	0	70	25	0	95	26	0	3	0	29	3	65	0	0	68	192
12:30 PM	0	0	0	0	0	0	48	19	0	67	19	0	1	0	20	2	75	0	0	77	164
12:45 PM	0	0	0	0	0	0	61	26	0	87	15	0	0	0	15	2	68	0	0	70	172
Total	0	0	0	0	0	0	241	86	0	327	83	0	7	0	90	10	282	0	0	292	709
1:00 PM	0	0	0	0	0	0	53	28	0	81	12	0	2	0	14	0	62	0	0	62	157
1:15 PM	0	0	0	0	0	0	73	24	0	97	14	0	1	0	15	2	63	0	0	65	177
1:30 PM	0	0	0	0	0	0	56	15	0	71	18	0	1	0	19	2	61	0	0	63	153
1:45 PM	0	0	0	0	0	0	55	9	0	64	11	0	2	0	13	2	67	0	0	69	146
Total	0	0	0	0	0	0	237	76	0	313	55	0	6	0	61	6	253	0	0	259	633
Grand Total	0	0	0	0	0	0	684	226	0	910	215	0	19	0	234	21	801	0	0	822	1966
Approach %	0.0	0.0	0.0	0.0		0.0	75.2	24.8	0.0		91.9	0.0	8.1	0.0		2.6	97.4	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	34.8	11.5	0.0	46.3	10.9	0.0	1.0	0.0	11.9	1.1	40.7	0.0	0.0	41.8	
Exiting Leg Total	0					1016					247					703					1966
Cars	0	0	0	0	0	0	670	217	0	887	213	0	19	0	232	19	786	0	0	805	1924
% Cars	0.0	0.0	0.0	0.0	0.0	0.0	98.0	96.0	0.0	97.5	99.1	0.0	100.0	0.0	99.1	90.5	98.1	0.0	0.0	97.9	97.9
Exiting Leg Total	0					999					236					689					1924
Heavy Vehicles	0	0	0	0	0	0	14	9	0	23	2	0	0	0	2	2	15	0	0	17	42
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	0.0	2.5	0.9	0.0	0.0	0.0	0.9	9.5	1.9	0.0	0.0	2.1	2.1
Exiting Leg Total	0					17					11					14					42

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

12:00 PM	Greenleaf Driveway					Amesbury Road (Route 110)					Elliott Street					Amesbury Road (Route 110)					Total				
	from North					from East					from South					from West									
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total					
12:00 PM	0	0	0	0	0	0	62	16	0	78	23	0	3	0	26	3	74	0	0	77	181				
12:15 PM	0	0	0	0	0	0	70	25	0	95	26	0	3	0	29	3	65	0	0	68	192				
12:30 PM	0	0	0	0	0	0	48	19	0	67	19	0	1	0	20	2	75	0	0	77	164				
12:45 PM	0	0	0	0	0	0	61	26	0	87	15	0	0	0	15	2	68	0	0	70	172				
Total Volume	0	0	0	0	0	0	241	86	0	327	83	0	7	0	90	10	282	0	0	292	709				
% Approach Total	0.0	0.0	0.0	0.0		0.0	73.7	26.3	0.0		92.2	0.0	7.8	0.0		3.4	96.6	0.0	0.0						
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.861	0.827	0.000	0.861	0.798	0.000	0.583	0.000	0.776	0.833	0.940	0.000	0.000	0.948	0.923				
Cars	0	0	0	0	0	0	234	84	0	318	83	0	7	0	90	9	277	0	0	286	694				
Cars %	0.0	0.0	0.0	0.0	0.0	0.0	97.1	97.7	0.0	97.2	100.0	0.0	100.0	0.0	100.0	90.0	98.2	0.0	0.0	97.9	97.9				
Heavy Vehicles	0	0	0	0	0	0	7	2	0	9	0	0	0	0	0	1	5	0	0	6	15				
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.3	0.0	2.8	0.0	0.0	0.0	0.0	0.0	10.0	1.8	0.0	0.0	2.1	2.1				
Cars Enter Leg	0	0	0	0	0	0	234	84	0	318	83	0	7	0	90	9	277	0	0	286	694				
Heavy Enter Leg	0	0	0	0	0	0	7	2	0	9	0	0	0	0	0	1	5	0	0	6	15				
Total Entering Leg	0	0	0	0	0	0	241	86	0	327	83	0	7	0	90	10	282	0	0	292	709				
Cars Exiting Leg						0					360					93					241				
Heavy Exiting Leg						0					5					3					7				
Total Exiting Leg						0					365					96					248				

**Amesbury Road (Route 110)
east of Elliot Street
City, State: Haverhill, MA
Client: VAI/ A. Arseneault
Site Code: 9665**



PDI File # 239269 ATR-A

Direction: EB

Weekly Report

[illegible]

**Amesbury Road (Route 110)
east of Elliot Street
City, State: Haverhill, MA
Client: VAI/ A. Arseneault
Site Code: 9665**



PDI File # 239269 ATR-A

Direction: WB

Weekly Report

[illegible]

SEASONAL ADJUSTMENT DATA



PUBLIC TRANSPORTATION SCHEDULES





17 Haverhill-Salisbury Beach via Amesbury

Lawrence
BUCKLEY TRANSPORTATION CENTER



See the [Fares](#) page for information on fares and passes.

Haverhill
WASHINGTON SQUARE



Boston
COMMUTER SERVICES



Amesbury
COSTELLO CENTER



Timetables for 17 Route 17

[Weekday](#)[Saturday](#)[Sunday](#)

OUTBOUND

[Scroll to see full schedule →](#)

Washington Square Transit Center	5:00am	6:00am	7:00am	8:00am	9:00am	10:00am	11:00am	12:00pm	1:00pm	2:0
NECC Haverhill Campus	5:10am	6:10am	7:10am	8:10am	9:10am	10:10am	11:10am	12:10pm	1:10pm	2:1
Merri Village	5:20am	6:20am	7:20am	8:20am	9:20am	10:20am	11:20am	12:20pm	1:20pm	2:2
Route 110 & Main St	5:30am	6:30am	7:30am	8:30am	9:30am	10:30am	11:30am	12:30pm	1:30pm	2:3
Nicholas J. Costello Transportation Center	5:40am	6:40am	7:40am	8:40am	9:40am	10:40am	11:40am	12:40pm	1:40pm	2:4
Carriagetown Marketplace - Stop & Shop	5:45am	6:45am	7:45am	8:45am	9:45am	10:45am	11:45am	12:45pm	1:45pm	2:4
Salisbury Beach	5:55am	6:55am	7:55am	8:55am	9:55am	10:55am	11:55am	12:55pm	1:55pm	2:5

INBOUND

[Scroll to see full schedule →](#)

Salisbury Beach	5:00am	6:00am	7:00am	8:00am	9:00am	10:00am	11:00am	12:00pm	1:00pm	2:0
Carriagetown Marketplace - Stop & Shop	5:10am	6:10am	7:10am	8:10am	9:10am	10:10am	11:10am	12:10pm	1:10pm	2:1
Nicholas J. Costello Transportation Center	5:20am	6:20am	7:20am	8:20am	9:20am	10:20am	11:20am	12:20pm	1:20pm	2:2
Route 110 & Main St	5:25am	6:25am	7:25am	8:25am	9:25am	10:25am	11:25am	12:25pm	1:25pm	2:2
Merri Village	5:35am	6:35am	7:35am	8:35am	9:35am	10:35am	11:35am	12:35pm	1:35pm	2:3
NECC Haverhill Campus	5:45am	6:45am	7:45am	8:45am	9:45am	10:45am	11:45am	12:45pm	1:45pm	2:4
Washington Square Transit Center	5:55am	6:55am	7:55am	8:55am	9:55am	10:55am	11:55am	12:55pm	1:55pm	2:5



Contact Us

MVRTA Administrative Offices

Monday - Friday
8:00AM - 5:00PM

85 Railroad Avenue
Haverhill, MA 01835

(978) 469-6878

(978) 521-5956

Administration

Advisory Board Meeting

Careers

Contact Us

Open Government

Title VI Policy

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About MVRTA

The MVRTA serves the northeast corner of Massachusetts with over 1 million miles of scheduled bus routes, and elderly and disabled transportation.

[Read more about MVRTA](#)

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MASSDOT CRASH RATE WORKSHEETS



INTERSECTION CRASH RATE WORKSHEET

CITY/TOWN : Haverhill COUNT DATE : Apr-23

DISTRICT : 4 UNSIGNALIZED : ☒ SIGNALIZED : ☐

~ INTERSECTION DATA ~

MAJOR STREET : Route 110

MINOR STREET(S) : I-495 SB ramps

INTERSECTION
 DIAGRAM
 (Label Approaches)



PEAK HOUR VOLUMES

APPROACH :	1	2	3	4	5	Total Peak Hourly Approach Volume
DIRECTION :	EB	WB	NB	SB		
PEAK HOURLY VOLUMES (AM) :	284		793	587		1,664
"K" FACTOR :	0.090	INTERSECTION ADT (V) = TOTAL DAILY APPROACH VOLUME :				18,489
TOTAL # OF CRASHES :	6	# OF YEARS :	5	AVERAGE # OF CRASHES PER YEAR (A) :		1.20

CRASH RATE CALCULATION :

0.18

$$\text{RATE} = \frac{(A * 1,000,000)}{(V * 365)}$$

Comments : Below Statewide and District Crash Rates

Project Title & Date : Proposed Gas Station/Convenience Store

INTERSECTION CRASH RATE WORKSHEET

CITY/TOWN : Haverhill COUNT DATE : Apr-23

DISTRICT : 4 UNSIGNALIZED : ☒ SIGNALIZED : ☐

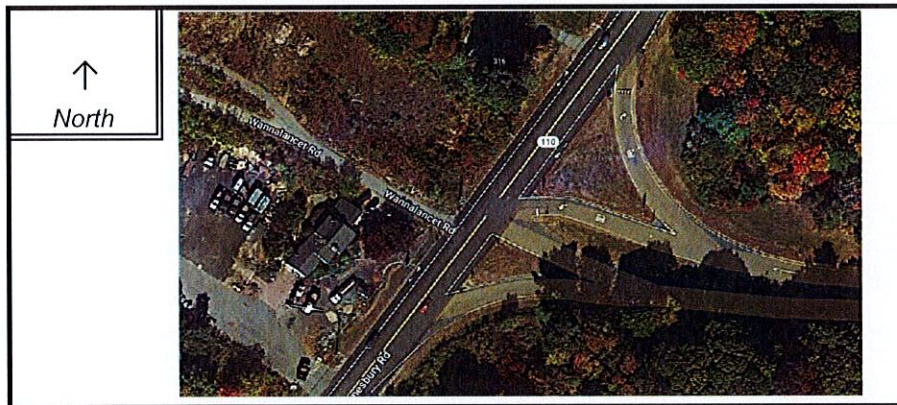
~ INTERSECTION DATA ~

MAJOR STREET : Route 110

MINOR STREET(S) : I-495 NB ramps

Wannalancet Road

**INTERSECTION
DIAGRAM**
(Label Approaches)



PEAK HOUR VOLUMES

APPROACH :	1	2	3	4	5	Total Peak Hourly Approach Volume
DIRECTION :	EB	WB	NB	SB		
PEAK HOURLY VOLUMES (AM) :	0	556	549	464		1,569
" K " FACTOR :	0.090	INTERSECTION ADT (V) = TOTAL DAILY APPROACH VOLUME :				17,433
TOTAL # OF CRASHES :	18	# OF YEARS :	5	AVERAGE # OF CRASHES PER YEAR (A) :		3.60

CRASH RATE CALCULATION :

0.57

$$\text{RATE} = \frac{(A * 1,000,000)}{(V * 365)}$$

Comments : Below Statewide and District Crash Rates

Project Title & Date: Proposed Gas Station/Convenience Store

INTERSECTION CRASH RATE WORKSHEET

CITY/TOWN : Haverhill COUNT DATE : Apr-23

DISTRICT : 4 UNSIGNALIZED : ☒ SIGNALIZED : ☐

~ INTERSECTION DATA ~

MAJOR STREET : Route 110

MINOR STREET(S) : Elliott Street

**INTERSECTION
DIAGRAM**
(Label Approaches)



PEAK HOUR VOLUMES

APPROACH :	1	2	3	4	5	Total Peak Hourly Approach Volume
DIRECTION :	EB	WB	NB	SB		
PEAK HOURLY VOLUMES (AM) :		136	317	500		953
" K " FACTOR :	0.090	INTERSECTION ADT (V) = TOTAL DAILY APPROACH VOLUME :				10,589
TOTAL # OF CRASHES :	11	# OF YEARS :	5	AVERAGE # OF CRASHES PER YEAR (A) :		2.20

CRASH RATE CALCULATION :

0.57

$$\text{RATE} = \frac{(A * 1,000,000)}{(V * 365)}$$

Comments : Below Statewide and District Crash Rates

Project Title & Date: Proposed Gas Station/Convenience Store

VEHICLE SPEED DATA



Amesbury Road (Route 110)
east of Elliott Street
City, State: Haverhill, MA
Client: VAI/ A. Arseneault
Site Code: 9665



PDI File #: 239269 ATR-A (Speed)

Count Date
Thursday, March 30, 2023

Speed (60-minute)

EB																
Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	0	1	0	4	1	1	1	0	0	0	0	0	8	39.8	33.9
1:00 AM	0	0	2	1	0	5	1	0	0	0	0	0	0	9	38.8	33.0
2:00 AM	0	0	3	0	0	3	2	0	1	0	1	0	0	10	47.5	37.7
3:00 AM	0	1	3	0	2	3	5	5	2	0	0	0	0	21	46.0	38.2
4:00 AM	0	3	11	0	2	6	16	5	1	0	0	0	0	44	44.0	35.2
5:00 AM	0	12	21	4	1	32	44	21	2	1	1	0	0	139	45.0	36.4
6:00 AM	0	13	56	14	11	70	128	54	10	1	1	0	0	358	45.0	37.2
7:00 AM	0	6	88	22	19	128	206	69	8	1	0	0	0	547	44.0	37.2
8:00 AM	0	12	77	9	21	89	148	44	5	0	0	0	0	405	44.0	36.2
9:00 AM	0	19	63	14	22	85	87	23	4	0	0	0	0	317	43.0	34.4
10:00 AM	0	14	77	20	17	89	105	28	0	0	0	0	0	350	42.7	34.4
11:00 AM	1	15	67	20	13	97	99	28	4	1	0	0	0	345	43.0	34.9
12:00 PM	0	13	104	26	30	121	120	26	2	0	0	0	0	442	43.0	33.9
1:00 PM	0	19	107	18	30	104	96	38	6	0	0	0	0	418	43.0	33.8
2:00 PM	0	8	121	27	30	107	135	32	1	0	0	0	0	461	43.0	34.0
3:00 PM	0	24	153	34	35	126	181	40	4	1	0	0	0	598	43.0	33.9
4:00 PM	2	17	105	17	42	153	173	37	5	0	0	0	0	551	43.0	35.2
5:00 PM	0	10	98	20	11	110	161	44	3	0	0	0	0	457	44.0	35.7
6:00 PM	0	8	48	13	17	61	110	39	7	0	0	0	0	303	44.7	36.9
7:00 PM	0	15	43	3	5	64	55	17	1	0	0	0	0	203	43.0	34.6
8:00 PM	0	9	63	4	14	52	34	7	1	1	0	0	0	185	40.4	31.5
9:00 PM	0	3	12	1	8	44	23	9	2	0	0	0	0	102	42.0	36.4
10:00 PM	0	1	8	4	14	30	24	3	2	1	0	0	0	87	42.0	36.5
11:00 PM	0	2	6	2	6	20	6	4	0	1	0	0	0	47	42.1	35.3
Total	3	224	1337	273	354	1600	1960	574	71	8	3	0	0	6407	44.0	35.1
Percent	0.05%	3.50%	20.87%	4.26%	5.53%	24.97%	30.59%	8.96%	1.11%	0.12%	0.05%	0.00%	0.00%			

AM Peak	11:00 AM	9:00 AM	7:00 AM	7:00 AM	9:00 AM	7:00 AM	7:00 AM	7:00 AM	6:00 AM	5:00 AM	2:00 AM			7:00 AM
Volume	1	19	88	22	22	128	206	69	10	1	1	0	0	547
PM Peak	4:00 PM	3:00 PM	3:00 PM	3:00 PM	4:00 PM	4:00 PM	3:00 PM	5:00 PM	6:00 PM	3:00 PM				3:00 PM
Volume	2	24	153	34	42	153	181	44	7	1	0	0	0	598

15th Percentile:	22.0 MPH	Average Speed:	35.1 MPH	Posted Speed Limit:	35 MPH
50th Percentile:	38.0 MPH	10 MPH Pace:	36 to 45 MPH	Number of Vehicles > 35 MPH:	4035
85th Percentile:	44.0 MPH	Number in Pace:	3570	Percent of Vehicles > 35 MPH:	63.0%
95th Percentile:	46.0 MPH	Percent in Pace:	55.7%		

Amesbury Road (Route 110)
east of Elliott Street
City, State: Haverhill, MA
Client: VAI/ A. Arseneault
Site Code: 9665



PDI File #: 239269 ATR-A (Speed)

Count Date
Thursday, March 30, 2023

Speed (60-minute)

WB																
Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	0	2	1	3	6	6	4	1	0	0	0	0	23	45.0	37.8
1:00 AM	0	0	0	1	2	6	3	3	0	0	0	0	0	15	44.6	38.1
2:00 AM	0	0	0	0	1	2	5	1	0	0	0	0	0	9	42.6	40.0
3:00 AM	1	0	1	0	0	4	4	1	0	0	0	0	0	11	43.0	36.2
4:00 AM	0	0	0	2	2	8	4	3	0	0	0	0	0	19	43.6	37.6
5:00 AM	0	2	2	3	8	9	8	6	2	0	0	0	0	40	45.0	36.6
6:00 AM	1	5	10	5	13	38	61	15	5	0	0	0	0	153	44.0	37.8
7:00 AM	1	6	17	8	24	97	107	44	3	0	0	0	0	307	45.0	38.2
8:00 AM	4	28	44	19	55	119	102	24	0	0	0	0	0	395	42.0	34.3
9:00 AM	8	18	38	21	44	80	89	15	2	0	0	0	0	315	42.0	33.9
10:00 AM	2	19	26	23	32	82	72	16	1	0	0	0	0	273	43.0	34.6
11:00 AM	3	6	24	17	28	77	89	19	2	0	0	0	0	265	43.0	36.3
12:00 PM	1	20	40	18	29	92	93	20	3	1	0	0	0	317	43.0	35.1
1:00 PM	0	7	23	25	45	103	81	22	3	1	0	0	0	310	43.0	36.0
2:00 PM	2	13	27	18	56	118	129	34	3	1	0	0	0	401	43.0	36.6
3:00 PM	1	11	29	28	71	163	139	26	2	0	0	0	0	470	42.0	36.3
4:00 PM	2	11	24	24	71	154	159	33	2	0	1	0	0	481	43.0	36.8
5:00 PM	1	14	31	30	61	144	142	45	4	1	0	0	0	473	43.0	36.6
6:00 PM	2	8	26	16	24	101	83	16	2	0	0	0	0	278	43.0	36.1
7:00 PM	0	8	8	12	15	56	67	18	2	0	1	0	0	187	44.0	37.5
8:00 PM	0	5	11	6	28	92	52	10	2	0	0	0	0	206	42.0	36.7
9:00 PM	1	2	4	0	24	38	48	15	3	0	0	0	0	135	44.0	38.2
10:00 PM	0	3	4	2	6	18	22	6	4	0	0	0	0	65	44.4	37.8
11:00 PM	0	0	1	2	8	15	19	9	0	0	0	0	0	54	45.1	39.2
Total	30	186	392	281	650	1622	1584	405	46	4	2	0	0	5202	43.0	36.2
Percent	0.58%	3.58%	7.54%	5.40%	12.50%	31.18%	30.45%	7.79%	0.88%	0.08%	0.04%	0.00%	0.00%			

AM Peak	9:00 AM	8:00 AM	8:00 AM	10:00 AM	8:00 AM	8:00 AM	7:00 AM	7:00 AM	6:00 AM					8:00 AM
Volume	8	28	44	23	55	119	107	44	5	0	0	0	0	395
PM Peak	2:00 PM	12:00 PM	12:00 PM	5:00 PM	3:00 PM	3:00 PM	4:00 PM	5:00 PM	5:00 PM	12:00 PM	4:00 PM			4:00 PM
Volume	2	20	40	30	71	163	159	45	4	1	1	0	0	481

15th Percentile:	28.0 MPH	Average Speed:	36.2 MPH	Posted Speed Limit:	35 MPH
50th Percentile:	38.0 MPH	10 MPH Pace:	35 to 44 MPH	Number of Vehicles > 35 MPH:	3439
85th Percentile:	43.0 MPH	Number in Pace:	3206	Percent of Vehicles > 35 MPH:	66.1%
95th Percentile:	46.0 MPH	Percent in Pace:	61.6%		

Amesbury Road (Route 110)
east of Elliott Street
City, State: Haverhill, MA
Client: VAI/ A. Arseneault
Site Code: 9665



PDI File #: 239269 ATR-A (Speed)

Count Date
Saturday, April 1, 2023

Speed (60-minute)

EB																
Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	2	3	2	8	10	5	3	1	0	0	0	0	34	44.0	34.9
1:00 AM	0	1	2	2	1	4	7	1	0	1	0	0	0	19	43.3	36.7
2:00 AM	0	2	1	0	1	7	4	3	1	0	0	0	0	19	45.3	37.2
3:00 AM	0	0	0	0	1	3	3	0	0	0	0	0	0	7	40.1	38.0
4:00 AM	0	1	3	1	5	11	2	0	2	0	0	0	0	25	40.6	35.1
5:00 AM	0	3	3	0	5	13	13	9	0	0	1	0	0	47	46.0	38.0
6:00 AM	0	5	14	2	5	23	23	9	6	0	0	0	0	87	45.1	36.2
7:00 AM	1	8	28	1	8	38	47	18	1	0	0	0	0	150	44.0	35.8
8:00 AM	0	8	25	6	10	38	67	31	1	0	0	0	0	186	45.0	37.0
9:00 AM	1	6	42	7	21	58	103	27	8	0	0	0	0	273	44.0	36.9
10:00 AM	0	6	40	9	20	67	97	40	5	0	0	0	0	284	45.0	37.0
11:00 AM	0	9	54	7	20	101	119	29	4	0	0	0	0	343	43.0	36.4
12:00 PM	0	10	50	11	22	97	132	34	4	0	0	0	0	360	44.0	36.8
1:00 PM	0	7	38	8	21	72	125	28	3	2	0	0	0	304	44.0	37.4
2:00 PM	0	11	45	3	15	84	115	41	3	0	0	0	0	317	44.0	37.1
3:00 PM	0	9	49	9	17	69	127	36	1	2	0	0	0	319	44.0	36.8
4:00 PM	0	10	62	8	14	64	114	31	7	1	0	0	0	311	44.0	36.2
5:00 PM	0	16	44	14	22	59	122	36	2	1	0	0	0	316	44.0	36.4
6:00 PM	0	12	27	8	13	66	114	38	2	0	0	0	0	280	44.0	37.7
7:00 PM	0	8	27	4	17	53	66	22	1	2	0	0	0	200	44.0	36.6
8:00 PM	0	5	21	3	19	61	38	3	1	0	0	0	0	151	41.5	35.1
9:00 PM	0	9	4	8	15	35	23	9	1	0	0	0	0	104	42.6	35.3
10:00 PM	0	1	7	9	19	39	23	3	0	0	1	0	0	102	41.0	35.5
11:00 PM	0	2	12	1	16	26	22	8	1	0	0	0	0	88	43.0	35.4
Total	2	151	601	123	315	1098	1511	459	55	9	2	0	0	4326	44.0	36.6
Percent	0.05%	3.49%	13.89%	2.84%	7.28%	25.38%	34.93%	10.61%	1.27%	0.21%	0.05%	0.00%	0.00%			

AM Peak 7:00 AM 11:00 AM 11:00 AM 10:00 AM 9:00 AM 11:00 AM 11:00 AM 10:00 AM 9:00 AM 1:00 AM 5:00 AM 11:00 AM
Volume 1 9 54 9 21 101 119 40 8 1 1 0 0 343

PM Peak 5:00 PM 4:00 PM 5:00 PM 12:00 PM 12:00 PM 2:00 PM 4:00 PM 1:00 PM 10:00 PM 12:00 PM
Volume 0 16 62 14 22 97 132 41 7 2 1 0 0 360

15th Percentile:	23.0 MPH	Average Speed:	36.6 MPH	Posted Speed Limit:	35 MPH
50th Percentile:	39.0 MPH	10 MPH Pace:	36 to 45 MPH	Number of Vehicles > 35 MPH:	2983
85th Percentile:	44.0 MPH	Number in Pace:	2622	Percent of Vehicles > 35 MPH:	69.0%
95th Percentile:	47.0 MPH	Percent in Pace:	60.6%		

Amesbury Road (Route 110)
east of Elliott Street
City, State: Haverhill, MA
Client: VAI/ A. Arseneault
Site Code: 9665



PDI File #: 239269 ATR-A (Speed)

Count Date
Saturday, April 1, 2023

Speed (60-minute)

WB																
Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	2	1	0	6	15	11	2	0	0	0	0	0	37	42.6	36.8
1:00 AM	0	0	1	0	1	7	10	2	2	1	0	0	0	24	46.7	41.0
2:00 AM	0	1	4	0	1	6	3	1	0	1	0	0	0	17	40.0	34.2
3:00 AM	0	0	0	0	0	0	4	1	1	1	0	0	0	7	53.6	46.6
4:00 AM	0	0	2	0	4	9	2	0	0	0	0	0	0	17	38.0	35.0
5:00 AM	1	0	1	2	2	7	9	3	0	0	0	0	0	25	44.0	37.4
6:00 AM	0	3	2	1	5	12	16	7	1	0	0	0	0	47	45.1	38.0
7:00 AM	1	0	4	3	13	29	38	12	1	0	0	0	0	101	44.0	38.4
8:00 AM	0	1	7	4	11	40	37	16	2	0	0	0	0	118	44.5	38.4
9:00 AM	0	4	14	4	18	75	61	19	2	1	0	0	0	198	43.0	37.6
10:00 AM	0	5	9	8	13	70	90	19	5	0	0	0	0	219	43.0	38.5
11:00 AM	3	5	25	3	28	92	79	7	2	0	0	0	0	244	42.0	36.0
12:00 PM	1	5	17	8	35	91	76	23	1	0	0	0	0	257	43.0	36.9
1:00 PM	1	5	18	13	21	84	103	25	3	0	0	0	0	273	43.0	37.4
2:00 PM	1	14	18	9	27	79	97	27	3	0	0	0	0	275	44.0	37.0
3:00 PM	2	1	19	15	29	74	104	43	3	0	0	0	0	290	45.0	38.1
4:00 PM	0	3	23	3	26	69	114	38	5	2	0	0	0	283	45.0	38.7
5:00 PM	1	5	10	10	15	51	103	33	7	0	0	0	0	235	45.0	39.2
6:00 PM	0	5	15	5	20	71	105	35	6	0	0	0	0	262	45.0	38.8
7:00 PM	1	9	19	5	25	90	78	31	1	0	0	0	0	259	44.0	37.2
8:00 PM	0	8	6	8	38	66	68	19	3	0	0	0	0	216	43.0	37.1
9:00 PM	1	6	5	7	31	57	23	8	3	0	0	0	0	141	41.0	35.4
10:00 PM	0	7	5	2	20	42	27	5	0	1	0	0	0	109	42.0	35.8
11:00 PM	0	5	2	0	9	29	19	4	2	2	0	0	0	72	43.0	37.5
Total	13	94	227	110	398	1165	1277	380	53	9	0	0	0	3726	44.0	37.6
Percent	0.35%	2.52%	6.09%	2.95%	10.68%	31.27%	34.27%	10.20%	1.42%	0.24%	0.00%	0.00%	0.00%			

AM Peak	11:00 AM	10:00 AM	11:00 AM	10:00 AM	11:00 AM	11:00 AM	10:00 AM	9:00 AM	10:00 AM	1:00 AM					11:00 AM
Volume	3	5	25	8	28	92	90	19	5	1	0	0	0	244	
PM Peak	3:00 PM	2:00 PM	4:00 PM	3:00 PM	8:00 PM	12:00 PM	4:00 PM	3:00 PM	5:00 PM	4:00 PM					3:00 PM
Volume	2	14	23	15	38	91	114	43	7	2	0	0	0	290	

15th Percentile:	32.0 MPH	Average Speed:	37.6 MPH	Posted Speed Limit:	35 MPH
50th Percentile:	39.0 MPH	10 MPH Pace:	35 to 44 MPH	Number of Vehicles > 35 MPH:	2730
85th Percentile:	44.0 MPH	Number in Pace:	2442	Percent of Vehicles > 35 MPH:	73.3%
95th Percentile:	47.0 MPH	Percent in Pace:	65.5%		

GROWTH RATE DATA



Massachusetts Highway Department
Statewide Traffic Data Collection
2019 Weekday Seasonal Factors

Factor Group	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Axle Factor
R1	1.22	1.14	1.12	1.06	1.00	0.96	0.87	0.85	0.96	0.99	1.04	1.12	0.85
R2	0.95	0.96	0.98	0.97	0.97	0.93	0.97	0.94	0.96	0.90	0.92	0.93	0.96
R3	1.15	1.06	1.07	1.00	0.89	0.88	0.89	0.89	0.95	0.92	1.02	1.01	0.97
R4-R7	1.09	1.09	1.11	1.02	0.96	0.92	0.89	0.89	0.99	0.98	1.09	1.13	0.98
U1-Boston	1.03	1.01	0.98	0.94	0.94	0.92	0.95	0.93	0.94	0.94	0.97	1.04	0.96
U1-Essex	1.09	1.06	1.03	0.99	0.94	0.90	0.88	0.86	0.93	0.94	0.99	1.06	0.93
U1-Southeast	1.06	1.05	1.01	0.97	0.95	0.93	0.93	0.90	0.94	0.94	0.98	1.04	0.98
U1-West	1.19	1.14	1.09	0.95	0.92	0.89	0.89	0.86	0.91	0.95	0.97	1.07	0.84
U1-Worcester	1.02	1.04	0.97	0.94	0.93	0.91	0.95	0.91	0.93	0.92	0.95	1.10	0.88
U2	1.01	1.00	0.94	0.93	0.91	0.89	0.93	0.90	0.90	0.91	0.94	1.02	0.99
U3	1.06	1.03	0.98	0.94	0.93	0.91	0.95	0.91	0.92	0.93	0.97	1.00	0.98
U4-U7	1.01	1.00	0.95	0.92	0.88	0.86	0.92	0.91	0.92	0.94	0.99	1.04	0.99
Rec - East	1.04	1.16	1.12	0.98	0.92	0.88	0.77	0.81	0.94	1.02	1.08	1.12	0.99
Rec - West	1.30	1.23	1.32	1.18	0.95	0.82	0.70	0.69	0.97	0.96	1.16	1.15	0.98

Round off:

0-999 = 10
>1000 = 100

U = Urban
R = Rural

- 1 - Interstate
- 2 - Freeway and Expressway
- 3 - Other Principal Arterial
- 4 - Minor Arterial
- 5 - Major Collector
- 6 - Minor Collector
- 7 - Local Road and Street

Recreational - East Group - Cape Cod (all towns) including the town of Plymouth south of Route 3A (stations 7014,7079,7080,7090,7091,7092,7093,7094,7095,7096,7097,7108 and 7178), Martha's Vineyard and Nantucket.
Recreational - West Group - Continuous Stations 2 and 189 including stations 1066,1067,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1113,1114,1116,2196,2197 and 2198.

TRIP GENERATION DATA



Based on Similar Sites

Average Vehicle Trips Ends vs: Vehicle Fueling Positions
Independent Variable (X): 5

AVERAGE WEEKDAY DAILY

$$T = 34.9 (X)$$

$$T = 34.9 * 5$$

$$T = 174.50$$

$$T = 176 \text{ vehicle trips}$$

with 50% (88 vpd) entering and 50% (88 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

$$T = 4.5 (X)$$

$$T = 4.5 * 5$$

$$T = 22.50$$

$$T = 23$$

$$T = 23 \text{ vehicle trips}$$

with 51% (12 vph) entering and 49% (11 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

$$T = 2.4 (X)$$

$$T = 2.4 * 5$$

$$T = 12.00$$

$$T = 12$$

$$T = 12 \text{ vehicle trips}$$

with 50% (6 vph) entering and 50% (6 vph) exiting.

SATURDAY DAILY

$$T = 24.7 * (X)$$

$$T = 24.7 * 5$$

$$T = 123.50$$

$$T = 124 \text{ vehicle trips}$$

with 50% (62 vpd) entering and 50% (62 vpd) exiting.

SATURDAY MIDDAY PEAK HOUR OF GENERATOR

$$T = 2 * (X)$$

$$T = 2 * 5$$

$$T = 10.00$$

$$T = 10$$

$$T = 10 \text{ vehicle trips}$$

with 50% (5 vph) entering and 50% (5 vph) exiting.

CAPACITY ANALYSIS

2023 Existing Weekday Morning Peak Hour
2023 Existing Weekday Evening Peak Hour
2023 Existing Saturday Midday Peak Hour
2030 No-Build Weekday Morning Peak Hour
2030 No-Build Weekday Evening Peak Hour
2030 No-Build Saturday Midday Peak Hour
2030 Build Weekday Morning Peak Hour
2030 Build Weekday Evening Peak Hour
2030 Build Saturday Midday Peak Hour








2023 Existing Weekday Morning Peak Hour



2023 Existing Weekday Morning
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection						
Int Delay, s/veh	3.3					
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	27	178	110	489	302	495
Future Vol, veh/h	27	178	110	489	302	495
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	62	62	86	86	78	78
Heavy Vehicles, %	4	1	2	6	3	1
Mvmt Flow	44	287	128	569	387	635
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	1212	387	387	0	-	0
Stage 1	387	-	-	-	-	-
Stage 2	825	-	-	-	-	-
Critical Hdwy	6.44	6.21	4.12	-	-	-
Critical Hdwy Stg 1	5.44	-	-	-	-	-
Critical Hdwy Stg 2	5.44	-	-	-	-	-
Follow-up Hdwy	3.536	3.309	2.218	-	-	-
Pot Cap-1 Maneuver	199	663	1171	-	-	-
Stage 1	682	-	-	-	-	-
Stage 2	427	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	167	663	1171	-	-	-
Mov Cap-2 Maneuver	167	-	-	-	-	-
Stage 1	573	-	-	-	-	-
Stage 2	427	-	-	-	-	-
Approach	EB	NE		SW		
HCM Control Delay, s	17.1	1.6		0		
HCM LOS	C					
Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1171	-	167	663	-	-
HCM Lane V/C Ratio	0.109	-	0.261	0.433	-	-
HCM Control Delay (s)	8.5	0	34	14.5	-	-
HCM Lane LOS	A	A	D	B	-	-
HCM 95th %tile Q(veh)	0.4	-	1	2.2	-	-

Intersection

Int Delay, s/veh 5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	77	0	269	0	330	204	57	423	0
Future Vol, veh/h	0	0	0	77	0	269	0	330	204	57	423	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	94	94	94	93	93	93	75	75	75
Heavy Vehicles, %	0	0	0	5	0	7	0	4	3	4	2	0
Mvmt Flow	0	0	0	82	0	286	0	355	219	76	564	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1071	1071	564	1071	1071	355	564	0	0	355	0	0
Stage 1	716	716	-	355	355	-	-	-	-	-	-	-
Stage 2	355	355	-	716	716	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.15	6.5	6.27	4.1	-	-	4.14	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.15	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.15	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.545	4	3.363	2.2	-	-	2.236	-	-
Pot Cap-1 Maneuver	200	223	529	196	223	678	1018	-	-	1193	-	-
Stage 1	424	437	-	656	633	-	-	-	-	-	-	-
Stage 2	666	633	-	417	437	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	107	202	529	182	202	678	1018	-	-	1193	-	-
Mov Cap-2 Maneuver	107	202	-	182	202	-	-	-	-	-	-	-
Stage 1	424	396	-	656	633	-	-	-	-	-	-	-
Stage 2	385	633	-	378	396	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	19.9	0	1
HCM LOS	A	C		




Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1	WBLn1	WBLn2	SWL	SWT	SWR
Capacity (veh/h)	1018	-	-	-	182	678	1193	-	-
HCM Lane V/C Ratio	-	-	-	-	0.45	0.422	0.064	-	-
HCM Control Delay (s)	0	-	-	0	40	14.1	8.2	0	-
HCM Lane LOS	A	-	-	A	E	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	2.1	2.1	0.2	-	-

2023 Existing Weekday Morning
3: Route 110 & Elliott Street

06/01/2023

Intersection

Int Delay, s/veh 3.9

Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Traffic Vol, veh/h	8	147	387	7	171	329
Future Vol, veh/h	8	147	387	7	171	329
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	81	81	96	96	92	92
Heavy Vehicles, %	13	3	3	14	4	4
Mvmt Flow	10	181	403	7	186	358

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1137	407	0
Stage 1	407	-	-
Stage 2	730	-	-
Critical Hdwy	6.53	6.23	4.14
Critical Hdwy Stg 1	5.53	-	-
Critical Hdwy Stg 2	5.53	-	-
Follow-up Hdwy	3.617	3.327	2.236
Pot Cap-1 Maneuver	212	642	1138
Stage 1	649	-	-
Stage 2	458	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	169	642	1138
Mov Cap-2 Maneuver	169	-	-
Stage 1	649	-	-
Stage 2	365	-	-

Approach	WB	NE	SW
HCM Control Delay, s	14.7	0	3
HCM LOS	B		

Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	561	1138
HCM Lane V/C Ratio	-	-	0.341	0.163
HCM Control Delay (s)	-	-	14.7	8.8
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	1.5	0.6

2023 Existing Weekday Evening Peak Hour








2023 Existing Weekday Evening
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection

Int Delay, s/veh 4.9

Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	63	221	156	637	249	338
Future Vol, veh/h	63	221	156	637	249	338
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	91	91	81	81
Heavy Vehicles, %	0	3	0	2	1	1
Mvmt Flow	74	260	171	700	307	417

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	1349	307	0
Stage 1	307	-	-
Stage 2	1042	-	-
Critical Hdwy	6.4	6.23	4.1
Critical Hdwy Stg 1	5.4	-	-
Critical Hdwy Stg 2	5.4	-	-
Follow-up Hdwy	3.5	3.327	2.2
Pot Cap-1 Maneuver	168	731	1265
Stage 1	751	-	-
Stage 2	343	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	131	731	1265
Mov Cap-2 Maneuver	131	-	-
Stage 1	585	-	-
Stage 2	343	-	-

Approach	EB	NE	SW
HCM Control Delay, s	23.9	1.6	0
HCM LOS	C		

Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1265	-	131	731	-	-
HCM Lane V/C Ratio	0.136	-	0.566	0.356	-	-
HCM Control Delay (s)	8.3	0	63.4	12.6	-	-
HCM Lane LOS	A	A	F	B	-	-
HCM 95th %tile Q(veh)	0.5	-	2.8	1.6	-	-

2023 Existing Weekday Evening

2: Route 110 & Wannalancet Road/I-495 Northbound Ramps

06/01/2023

Intersection												
Int Delay, s/veh	12.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	140	0	426	0	367	190	36	434	0
Future Vol, veh/h	0	0	0	140	0	426	0	367	190	36	434	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	86	86	86	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	1	0	3	0	1	1	0	3	0
Mvmt Flow	0	0	0	163	0	495	0	412	213	40	488	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	980	980	488	980	980	412	488	0	0	412	0	0
Stage 1	568	568	-	412	412	-	-	-	-	-	-	-
Stage 2	412	412	-	568	568	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.11	6.5	6.23	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.11	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.11	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.509	4	3.327	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	231	252	584	230	252	638	1086	-	-	1158	-	-
Stage 1	511	510	-	619	598	-	-	-	-	-	-	-
Stage 2	621	598	-	509	510	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	50	240	584	222	240	638	1086	-	-	1158	-	-
Mov Cap-2 Maneuver	50	240	-	222	240	-	-	-	-	-	-	-
Stage 1	511	486	-	619	598	-	-	-	-	-	-	-
Stage 2	139	598	-	485	486	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	34.4	0	0.6
HCM LOS	A	D		

Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1	WBLn1	WBLn2	SWL	SWT	SWR
Capacity (veh/h)	1086	-	-	-	222	638	1158	-	-
HCM Lane V/C Ratio	-	-	-	-	0.733	0.776	0.035	-	-
HCM Control Delay (s)	0	-	-	0	55.8	27.4	8.2	0	-
HCM Lane LOS	A	-	-	A	F	D	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	4.9	7.4	0.1	-	-

2023 Existing Weekday Evening
3: Route 110 & Elliott Street

06/01/2023

Intersection						
Int Delay, s/veh	3.5					
Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations	W	R	T	T	T	T
Traffic Vol, veh/h	9	172	385	12	141	433
Future Vol, veh/h	9	172	385	12	141	433
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	83	83	93	93
Heavy Vehicles, %	0	1	1	8	1	2
Mvmt Flow	10	191	464	14	152	466

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1241	471	0
Stage 1	471	-	-
Stage 2	770	-	-
Critical Hdwy	6.4	6.21	-
Critical Hdwy Stg 1	5.4	-	-
Critical Hdwy Stg 2	5.4	-	-
Follow-up Hdwy	3.5	3.309	-
Pot Cap-1 Maneuver	195	595	-
Stage 1	632	-	-
Stage 2	460	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	158	595	-
Mov Cap-2 Maneuver	158	-	-
Stage 1	632	-	-
Stage 2	374	-	-

Approach	WB	NE	SW
HCM Control Delay, s	16.1	0	2.2
HCM LOS	C		






Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	523	1090
HCM Lane V/C Ratio	-	-	0.385	0.139
HCM Control Delay (s)	-	-	16.1	8.8
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	1.8	0.5

2023 Existing Saturday Midday Peak Hour



2023 Existing Saturday MIDDAY
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection						
Int Delay, s/veh	2.3					
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	36	124	86	407	172	251
Future Vol, veh/h	36	124	86	407	172	251
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	98	98	86	86	91	91
Heavy Vehicles, %	0	4	1	1	1	1
Mvmt Flow	37	127	100	473	189	276
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	862	189	189	0	-	0
Stage 1	189	-	-	-	-	-
Stage 2	673	-	-	-	-	-
Critical Hdwy	6.4	6.24	4.11	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.336	2.209	-	-	-
Pot Cap-1 Maneuver	328	848	1391	-	-	-
Stage 1	848	-	-	-	-	-
Stage 2	511	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	296	848	1391	-	-	-
Mov Cap-2 Maneuver	296	-	-	-	-	-
Stage 1	765	-	-	-	-	-
Stage 2	511	-	-	-	-	-
Approach	EB	NE		SW		
HCM Control Delay, s	12	1.4		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1391	-	296	848	-	-
HCM Lane V/C Ratio	0.072	-	0.124	0.149	-	-
HCM Control Delay (s)	7.8	0	18.9	10	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.4	0.5	-	-

Intersection												
Int Delay, s/veh	5.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	70	0	260	0	233	133	30	266	0
Future Vol, veh/h	0	0	0	70	0	260	0	233	133	30	266	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	74	74	74	94	94	94	82	82	82
Heavy Vehicles, %	0	0	0	3	0	2	0	1	1	0	4	0
Mvmt Flow	0	0	0	95	0	351	0	248	141	37	324	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	646	646	324	646	646	248	324	0	0	248	0	0
Stage 1	398	398	-	248	248	-	-	-	-	-	-	-
Stage 2	248	248	-	398	398	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.13	6.5	6.22	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.13	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.13	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.527	4	3.318	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	387	393	722	383	393	791	1247	-	-	1330	-	-
Stage 1	632	606	-	754	705	-	-	-	-	-	-	-
Stage 2	760	705	-	626	606	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	209	380	722	373	380	791	1247	-	-	1330	-	-
Mov Cap-2 Maneuver	209	380	-	373	380	-	-	-	-	-	-	-
Stage 1	632	585	-	754	705	-	-	-	-	-	-	-
Stage 2	422	705	-	605	585	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	14.1	0	0.8
HCM LOS	A	B		

Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1	WBLn1	WBLn2	SWL	SWT	SWR
Capacity (veh/h)	1247	-	-	-	373	791	1330	-	-
HCM Lane V/C Ratio	-	-	-	-	0.254	0.444	0.028	-	-
HCM Control Delay (s)	0	-	-	0	17.9	13.1	7.8	0	-
HCM Lane LOS	A	-	-	A	C	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	1	2.3	0.1	-	-

2023 Existing Saturday Midday
3: Route 110 & Elliott Street

06/01/2023

Intersection						
Int Delay, s/veh	2.6					
Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations	W	R	T	R	L	T
Traffic Vol, veh/h	7	83	283	10	88	248
Future Vol, veh/h	7	83	283	10	88	248
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	78	78	95	95	86	86
Heavy Vehicles, %	0	0	2	10	2	3
Mvmt Flow	9	106	298	11	102	288

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	796	304	0
Stage 1	304	-	-
Stage 2	492	-	-
Critical Hdwy	6.4	6.2	-
Critical Hdwy Stg 1	5.4	-	-
Critical Hdwy Stg 2	5.4	-	-
Follow-up Hdwy	3.5	3.3	-
Pot Cap-1 Maneuver	359	740	-
Stage 1	753	-	-
Stage 2	619	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	324	740	-
Mov Cap-2 Maneuver	324	-	-
Stage 1	753	-	-
Stage 2	559	-	-

Approach	WB	NE	SW
HCM Control Delay, s	11.5	0	2.1
HCM LOS	B		






Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	673	1252
HCM Lane V/C Ratio	-	-	0.171	0.082
HCM Control Delay (s)	-	-	11.5	8.1
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	0.6	0.3

2030 No-Build Weekday Morning Peak Hour



2030 No-Build Weekday Morning
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection						
Int Delay, s/veh	3.6					
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	29	191	118	524	324	531
Future Vol, veh/h	29	191	118	524	324	531
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	62	62	86	86	78	78
Heavy Vehicles, %	4	1	2	6	3	1
Mvmt Flow	47	308	137	609	415	681

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1298	415	415	0	-	0
Stage 1	415	-	-	-	-	-
Stage 2	883	-	-	-	-	-
Critical Hdwy	6.44	6.21	4.12	-	-	-
Critical Hdwy Stg 1	5.44	-	-	-	-	-
Critical Hdwy Stg 2	5.44	-	-	-	-	-
Follow-up Hdwy	3.536	3.309	2.218	-	-	-
Pot Cap-1 Maneuver	177	640	1144	-	-	-
Stage 1	662	-	-	-	-	-
Stage 2	401	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	145	640	1144	-	-	-
Mov Cap-2 Maneuver	145	-	-	-	-	-
Stage 1	542	-	-	-	-	-
Stage 2	401	-	-	-	-	-

Approach	EB	NE	SW
HCM Control Delay, s	19.1	1.6	0
HCM LOS	C		

Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1144	-	145	640	-	-
HCM Lane V/C Ratio	0.12	-	0.323	0.481	-	-
HCM Control Delay (s)	8.6	0	41.2	15.7	-	-
HCM Lane LOS	A	A	E	C	-	-
HCM 95th %tile Q(veh)	0.4	-	1.3	2.6	-	-

Intersection												
Int Delay, s/veh	5.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	83	0	288	0	354	219	61	454	0
Future Vol, veh/h	0	0	0	83	0	288	0	354	219	61	454	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	94	94	94	93	93	93	75	75	75
Heavy Vehicles, %	0	0	0	5	0	7	0	4	3	4	2	0
Mvmt Flow	0	0	0	88	0	306	0	381	235	81	605	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1148	1148	605	1148	1148	381	605	0	0	381	0	0
Stage 1	767	767	-	381	381	-	-	-	-	-	-	-
Stage 2	381	381	-	767	767	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.15	6.5	6.27	4.1	-	-	4.14	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.15	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.15	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.545	4	3.363	2.2	-	-	2.236	-	-
Pot Cap-1 Maneuver	177	200	501	173	200	655	983	-	-	1167	-	-
Stage 1	398	414	-	635	617	-	-	-	-	-	-	-
Stage 2	645	617	-	390	414	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	87	179	501	159	179	655	983	-	-	1167	-	-
Mov Cap-2 Maneuver	87	179	-	159	179	-	-	-	-	-	-	-
Stage 1	398	371	-	635	617	-	-	-	-	-	-	-
Stage 2	343	617	-	349	371	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	23.6	0	1
HCM LOS	A	C		

Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1WBLn1WBLn2	SWL	SWT	SWR
Capacity (veh/h)	983	-	-	159	655	1167	-
HCM Lane V/C Ratio	-	-	-	0.555	0.468	0.07	-
HCM Control Delay (s)	0	-	-	52.8	15.2	8.3	0
HCM Lane LOS	A	-	-	A	F	C	A
HCM 95th %tile Q(veh)	0	-	-	2.8	2.5	0.2	-

2030 No-Build Weekday Morning
3: Route 110 & Elliott Street

06/01/2023

Intersection						
Int Delay, s/veh	4.2					
Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations	W	W	T	T	T	T
Traffic Vol, veh/h	9	158	415	8	183	354
Future Vol, veh/h	9	158	415	8	183	354
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	81	81	96	96	92	92
Heavy Vehicles, %	13	3	3	14	4	4
Mvmt Flow	11	195	432	8	199	385

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1219	436	0
Stage 1	436	-	-
Stage 2	783	-	-
Critical Hdwy	6.53	6.23	4.14
Critical Hdwy Stg 1	5.53	-	-
Critical Hdwy Stg 2	5.53	-	-
Follow-up Hdwy	3.617	3.327	2.236
Pot Cap-1 Maneuver	189	618	1109
Stage 1	629	-	-
Stage 2	432	-	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	146	618	1109
Mov Cap-2 Maneuver	146	-	-
Stage 1	629	-	-
Stage 2	334	-	-

Approach	WB	NE	SW
HCM Control Delay, s	16.2	0	3.1
HCM LOS	C		

Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	526	1109
HCM Lane V/C Ratio	-	-	0.392	0.179
HCM Control Delay (s)	-	-	16.2	9
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	1.8	0.7

2030 No-Build Weekday Evening Peak Hour








2030 No-Build Weekday Evening
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection

Int Delay, s/veh 6.4

Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	68	237	167	683	267	362
Future Vol, veh/h	68	237	167	683	267	362
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	91	91	81	81
Heavy Vehicles, %	0	3	0	2	1	1
Mvmt Flow	80	279	184	751	330	447

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	1449	330	330
Stage 1	330	-	-
Stage 2	1119	-	-
Critical Hdwy	6.4	6.23	4.1
Critical Hdwy Stg 1	5.4	-	-
Critical Hdwy Stg 2	5.4	-	-
Follow-up Hdwy	3.5	3.327	2.2
Pot Cap-1 Maneuver	146	709	1241
Stage 1	733	-	-
Stage 2	315	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	109	709	1241
Mov Cap-2 Maneuver	109	-	-
Stage 1	547	-	-
Stage 2	315	-	-

Approach	EB	NE	SW
HCM Control Delay, s	32.3	1.7	0
HCM LOS	D		

Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1241	-	109	709	-	-
HCM Lane V/C Ratio	0.148	-	0.734	0.393	-	-
HCM Control Delay (s)	8.4	0	98.5	13.3	-	-
HCM Lane LOS	A	A	F	B	-	-
HCM 95th %tile Q(veh)	0.5	-	4	1.9	-	-

2030 No-Build Weekday Evening
2: Route 110 & Wannalancet Road/I-495 Northbound Ramps

06/01/2023

Intersection

Int Delay, s/veh 18.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	150	0	457	0	393	204	39	465	0
Future Vol, veh/h	0	0	0	150	0	457	0	393	204	39	465	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	86	86	86	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	1	0	3	0	1	1	0	3	0
Mvmt Flow	0	0	0	174	0	531	0	442	229	44	522	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1052	1052	522	1052	1052	442	522	0	0	442	0	0
Stage 1	610	610	-	442	442	-	-	-	-	-	-	-
Stage 2	442	442	-	610	610	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.11	6.5	6.23	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.11	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.11	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.509	4	3.327	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	206	228	559	205	228	613	1055	-	-	1129	-	-
Stage 1	485	488	-	596	580	-	-	-	-	-	-	-
Stage 2	598	580	-	483	488	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	26	215	559	196	215	613	1055	-	-	1129	-	-
Mov Cap-2 Maneuver	26	215	-	196	215	-	-	-	-	-	-	-
Stage 1	485	461	-	596	580	-	-	-	-	-	-	-
Stage 2	80	580	-	456	461	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	49.9	0	0.6
HCM LOS	A	E		




Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1	WBLn1	WBLn2	SWL	SWT	SWR
Capacity (veh/h)	1055	-	-	-	196	613	1129	-	-
HCM Lane V/C Ratio	-	-	-	-	0.89	0.867	0.039	-	-
HCM Control Delay (s)	0	-	-	0	87.9	37.4	8.3	0	-
HCM Lane LOS	A	-	-	A	F	E	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	6.8	9.9	0.1	-	-

2030 No-Build Weekday Evening
3: Route 110 & Elliott Street

06/01/2023

Intersection

Int Delay, s/veh 3.9

Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Traffic Vol, veh/h	10	184	413	13	151	464
Future Vol, veh/h	10	184	413	13	151	464
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	83	83	93	93
Heavy Vehicles, %	0	1	1	8	1	2
Mvmt Flow	11	204	498	16	162	499

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1329	506	0
Stage 1	506	-	-
Stage 2	823	-	-
Critical Hdwy	6.4	6.21	-
Critical Hdwy Stg 1	5.4	-	-
Critical Hdwy Stg 2	5.4	-	-
Follow-up Hdwy	3.5	3.309	-
Pot Cap-1 Maneuver	173	568	-
Stage 1	610	-	-
Stage 2	435	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	136	568	-
Mov Cap-2 Maneuver	136	-	-
Stage 1	610	-	-
Stage 2	343	-	-

Approach	WB	NE	SW
HCM Control Delay, s	18.1	0	2.2
HCM LOS	C		

Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	488	1057
HCM Lane V/C Ratio	-	-	0.442	0.154
HCM Control Delay (s)	-	-	18.1	9
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	2.2	0.5

2030 No-Build Saturday Midday Peak Hour








2030 No-Build Saturday Midday
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection

Int Delay, s/veh 2.4

Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	39	133	92	437	184	269
Future Vol, veh/h	39	133	92	437	184	269
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	98	98	86	86	91	91
Heavy Vehicles, %	0	4	1	1	1	1
Mvmt Flow	40	136	107	508	202	296

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	924	202	202
Stage 1	202	-	-
Stage 2	722	-	-
Critical Hdwy	6.4	6.24	4.11
Critical Hdwy Stg 1	5.4	-	-
Critical Hdwy Stg 2	5.4	-	-
Follow-up Hdwy	3.5	3.336	2.209
Pot Cap-1 Maneuver	302	834	1376
Stage 1	837	-	-
Stage 2	485	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	269	834	1376
Mov Cap-2 Maneuver	269	-	-
Stage 1	747	-	-
Stage 2	485	-	-

Approach	EB	NE	SW
HCM Control Delay, s	12.6	1.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1376	-	269	834	-	-
HCM Lane V/C Ratio	0.078	-	0.148	0.163	-	-
HCM Control Delay (s)	7.8	0	20.7	10.2	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.3	-	0.5	0.6	-	-

Intersection

Int Delay, s/veh 5.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	75	0	279	0	250	143	32	285	0
Future Vol, veh/h	0	0	0	75	0	279	0	250	143	32	285	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	74	74	74	94	94	94	82	82	82
Heavy Vehicles, %	0	0	0	3	0	2	0	1	1	0	4	0
Mvmt Flow	0	0	0	101	0	377	0	266	152	39	348	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	692	692	348	692	692	266	348	0	0	266	0	0
Stage 1	426	426	-	266	266	-	-	-	-	-	-	-
Stage 2	266	266	-	426	426	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.13	6.5	6.22	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.13	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.13	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.527	4	3.318	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	361	370	700	357	370	773	1222	-	-	1310	-	-
Stage 1	610	589	-	737	692	-	-	-	-	-	-	-
Stage 2	744	692	-	604	589	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	180	356	700	347	356	773	1222	-	-	1310	-	-
Mov Cap-2 Maneuver	180	356	-	347	356	-	-	-	-	-	-	-
Stage 1	610	567	-	737	692	-	-	-	-	-	-	-
Stage 2	381	692	-	582	567	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	15.2	0	0.8
HCM LOS	A	C		

Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1	WBLn1	WBLn2	SWL	SWT	SWR
Capacity (veh/h)	1222	-	-	-	347	773	1310	-	-
HCM Lane V/C Ratio	-	-	-	-	0.292	0.488	0.03	-	-
HCM Control Delay (s)	0	-	-	0	19.6	14	7.8	0	-
HCM Lane LOS	A	-	-	A	C	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	1.2	2.7	0.1	-	-

2030 No-Build Saturday Midday
3: Route 110 & Elliott Street

06/01/2023

Intersection						
Int Delay, s/veh	2.7					
Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations	W	R	T	R	L	T
Traffic Vol, veh/h	8	89	304	11	94	266
Future Vol, veh/h	8	89	304	11	94	266
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	78	78	95	95	86	86
Heavy Vehicles, %	0	0	2	10	2	3
Mvmt Flow	10	114	320	12	109	309

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	853	326	0	0	332	0
Stage 1	326	-	-	-	-	-
Stage 2	527	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.12	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.218	-
Pot Cap-1 Maneuver	332	720	-	-	1227	-
Stage 1	736	-	-	-	-	-
Stage 2	596	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	296	720	-	-	1227	-
Mov Cap-2 Maneuver	296	-	-	-	-	-
Stage 1	736	-	-	-	-	-
Stage 2	532	-	-	-	-	-

Approach	WB	NE	SW
HCM Control Delay, s	11.9	0	2.1
HCM LOS	B		

Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	644	1227
HCM Lane V/C Ratio	-	-	0.193	0.089
HCM Control Delay (s)	-	-	11.9	8.2
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	0.7	0.3

2030 Build Weekday Morning Peak Hour








2030 Build Weekday Morning
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection

Int Delay, s/veh 3.8

Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	29	196	123	525	325	531
Future Vol, veh/h	29	196	123	525	325	531
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	62	62	86	86	78	78
Heavy Vehicles, %	4	4	6	6	3	1
Mvmt Flow	47	316	143	610	417	681

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	1313	417	417
Stage 1	417	-	-
Stage 2	896	-	-
Critical Hdwy	6.44	6.24	4.16
Critical Hdwy Stg 1	5.44	-	-
Critical Hdwy Stg 2	5.44	-	-
Follow-up Hdwy	3.536	3.336	2.254
Pot Cap-1 Maneuver	173	632	1121
Stage 1	661	-	-
Stage 2	395	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	140	632	1121
Mov Cap-2 Maneuver	140	-	-
Stage 1	533	-	-
Stage 2	395	-	-

Approach	EB	NE	SW
HCM Control Delay, s	19.8	1.6	0
HCM LOS	C		

Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1121	-	140	632	-	-
HCM Lane V/C Ratio	0.128	-	0.334	0.5	-	-
HCM Control Delay (s)	8.7	0	43.1	16.3	-	-
HCM Lane LOS	A	A	E	C	-	-
HCM 95th %tile Q(veh)	0.4	-	1.3	2.8	-	-

Intersection

Int Delay, s/veh 6.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	88	0	288	0	360	223	61	460	0
Future Vol, veh/h	0	0	0	88	0	288	0	360	223	61	460	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	94	94	94	93	93	93	75	75	75
Heavy Vehicles, %	0	0	0	10	0	7	0	6	5	4	3	0
Mvmt Flow	0	0	0	94	0	306	0	387	240	81	613	0




Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1162	1162	613	1162	1162	387	613	0	0	387	0	0
Stage 1	775	775	-	387	387	-	-	-	-	-	-	-
Stage 2	387	387	-	775	775	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.2	6.5	6.27	4.1	-	-	4.14	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.2	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.2	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.59	4	3.363	2.2	-	-	2.236	-	-
Pot Cap-1 Maneuver	174	197	496	166	197	650	976	-	-	1161	-	-
Stage 1	394	411	-	621	613	-	-	-	-	-	-	-
Stage 2	641	613	-	379	411	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	85	176	496	153	176	650	976	-	-	1161	-	-
Mov Cap-2 Maneuver	85	176	-	153	176	-	-	-	-	-	-	-
Stage 1	394	367	-	621	613	-	-	-	-	-	-	-
Stage 2	339	613	-	339	367	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	25.8	0	1
HCM LOS	A	D		

Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1WBLn1WBLn2	SWL	SWT	SWR
Capacity (veh/h)	976	-	-	-	153	650	1161
HCM Lane V/C Ratio	-	-	-	-	0.612	0.471	0.07
HCM Control Delay (s)	0	-	-	0	60	15.4	8.3
HCM Lane LOS	A	-	-	A	F	C	A
HCM 95th %tile Q(veh)	0	-	-	-	3.3	2.5	0.2

Intersection

Int Delay, s/veh 4.1

Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations						
Traffic Vol, veh/h	9	158	416	8	183	355
Future Vol, veh/h	9	158	416	8	183	355
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	81	81	96	96	92	92
Heavy Vehicles, %	13	3	3	14	4	4
Mvmt Flow	11	195	433	8	199	386

Major/Minor	Minor1	Major1	Major2
Conflicting Flow All	1221	437	0
Stage 1	437	-	-
Stage 2	784	-	-
Critical Hdwy	6.53	6.23	-
Critical Hdwy Stg 1	5.53	-	-
Critical Hdwy Stg 2	5.53	-	-
Follow-up Hdwy	3.617	3.327	-
Pot Cap-1 Maneuver	189	617	-
Stage 1	628	-	-
Stage 2	431	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	146	617	-
Mov Cap-2 Maneuver	146	-	-
Stage 1	628	-	-
Stage 2	332	-	-




Approach	WB	NE	SW
HCM Control Delay, s	16.2	0	3
HCM LOS	C		

Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	526	1108
HCM Lane V/C Ratio	-	-	0.392	0.18
HCM Control Delay (s)	-	-	16.2	9
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	1.8	0.7

Intersection

Int Delay, s/veh 0.3

Movement

	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	10	1	1	573	537	11
Future Vol, veh/h	10	1	1	573	537	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	96	96	92	92
Heavy Vehicles, %	100	100	100	3	4	100
Mvmt Flow	11	1	1	597	584	12

Major/Minor

	Minor2	Major1	Major2
Conflicting Flow All	1189	590	596
Stage 1	590	-	-
Stage 2	599	-	-
Critical Hdwy	7.4	7.2	5.1
Critical Hdwy Stg 1	6.4	-	-
Critical Hdwy Stg 2	6.4	-	-
Follow-up Hdwy	4.4	4.2	3.1
Pot Cap-1 Maneuver	135	364	638
Stage 1	402	-	-
Stage 2	398	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	135	364	638
Mov Cap-2 Maneuver	135	-	-
Stage 1	401	-	-
Stage 2	398	-	-

Approach

	EB	NE	SW
HCM Control Delay, s	32.5	0	0
HCM LOS	D		

Minor Lane/Major Mvmt

	NEL	NET EBLn1	SWT	SWR
Capacity (veh/h)	638	-	143	-
HCM Lane V/C Ratio	0.002	-	0.084	-
HCM Control Delay (s)	10.7	0	32.5	-
HCM Lane LOS	B	A	D	-
HCM 95th %tile Q(veh)	0	-	0.3	-

2030 Build Weekday Evening Peak Hour








2030 Build Weekday Evening
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection

Int Delay, s/veh 6.5

Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	68	240	170	683	267	362
Future Vol, veh/h	68	240	170	683	267	362
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	91	91	81	81
Heavy Vehicles, %	0	4	2	2	1	1
Mvmt Flow	80	282	187	751	330	447

Major/Minor	Minor2	Major1	Major2
Conflicting Flow All	1455	330	330
Stage 1	330	-	-
Stage 2	1125	-	-
Critical Hdwy	6.4	6.24	4.12
Critical Hdwy Stg 1	5.4	-	-
Critical Hdwy Stg 2	5.4	-	-
Follow-up Hdwy	3.5	3.336	2.218
Pot Cap-1 Maneuver	145	707	1229
Stage 1	733	-	-
Stage 2	313	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	107	707	1229
Mov Cap-2 Maneuver	107	-	-
Stage 1	542	-	-
Stage 2	313	-	-

Approach	EB	NE	SW
HCM Control Delay, s	33.1	1.7	0
HCM LOS	D		

Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1229	-	107	707	-	-
HCM Lane V/C Ratio	0.152	-	0.748	0.399	-	-
HCM Control Delay (s)	8.5	0	102.5	13.4	-	-
HCM Lane LOS	A	A	F	B	-	-
HCM 95th %tile Q(veh)	0.5	-	4	1.9	-	-

2030 Build Weekday Evening
2: Route 110 & Wannalancet Road/I-495 Northbound Ramps

06/01/2023

Intersection

Int Delay, s/veh 19.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	153	0	457	0	396	207	39	468	0
Future Vol, veh/h	0	0	0	153	0	457	0	396	207	39	468	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	86	86	86	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	3	0	3	0	2	2	0	4	0
Mvmt Flow	0	0	0	178	0	531	0	445	233	44	526	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	1059	1059	526	1059	1059	445	526	0	0	445	0	0
Stage 1	614	614	-	445	445	-	-	-	-	-	-	-
Stage 2	445	445	-	614	614	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.13	6.5	6.23	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.13	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.13	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.527	4	3.327	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	204	226	556	201	226	611	1051	-	-	1126	-	-
Stage 1	483	486	-	590	578	-	-	-	-	-	-	-
Stage 2	596	578	-	477	486	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	26	214	556	193	214	611	1051	-	-	1126	-	-
Mov Cap-2 Maneuver	26	214	-	193	214	-	-	-	-	-	-	-
Stage 1	483	459	-	590	578	-	-	-	-	-	-	-
Stage 2	78	578	-	451	459	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	52.3	0	0.6
HCM LOS	A	F		

Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1	WBLn1	WBLn2	SWL	SWT	SWR
Capacity (veh/h)	1051	-	-	-	193	611	1126	-	-
HCM Lane V/C Ratio	-	-	-	-	0.922	0.87	0.039	-	-
HCM Control Delay (s)	0	-	-	0	95.8	37.8	8.3	0	-
HCM Lane LOS	A	-	-	A	F	E	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	7.3	10	0.1	-	-

Intersection						
Int Delay, s/veh	3.9					
Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations	W	W	T	T	T	T
Traffic Vol, veh/h	10	184	413	13	151	464
Future Vol, veh/h	10	184	413	13	151	464
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	83	83	93	93
Heavy Vehicles, %	0	1	1	8	1	2
Mvmt Flow	11	204	498	16	162	499
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1329	506	0	0	514	0
Stage 1	506	-	-	-	-	-
Stage 2	823	-	-	-	-	-
Critical Hdwy	6.4	6.21	-	-	4.11	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.309	-	-	2.209	-
Pot Cap-1 Maneuver	173	568	-	-	1057	-
Stage 1	610	-	-	-	-	-
Stage 2	435	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	136	568	-	-	1057	-
Mov Cap-2 Maneuver	136	-	-	-	-	-
Stage 1	610	-	-	-	-	-
Stage 2	343	-	-	-	-	-
Approach	WB	NE	SW			
HCM Control Delay, s	18.1	0	2.2			
HCM LOS	C					
Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT		
Capacity (veh/h)	-	-	488	1057	-	
HCM Lane V/C Ratio	-	-	0.442	0.154	-	
HCM Control Delay (s)	-	-	18.1	9	0	
HCM Lane LOS	-	-	C	A	A	
HCM 95th %tile Q(veh)	-	-	2.2	0.5	-	

Intersection

Int Delay, s/veh 0.2

Movement

	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations	W			W	W	
Traffic Vol, veh/h	6	0	0	597	615	6
Future Vol, veh/h	6	0	0	597	615	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	83	83	93	93
Heavy Vehicles, %	100	0	0	1	2	100
Mvmt Flow	7	0	0	719	661	6

Major/Minor

	Minor2	Major1	Major2
Conflicting Flow All	1383	664	667
Stage 1	664	-	-
Stage 2	719	-	-
Critical Hdwy	7.4	6.2	4.1
Critical Hdwy Stg 1	6.4	-	-
Critical Hdwy Stg 2	6.4	-	-
Follow-up Hdwy	4.4	3.3	2.2
Pot Cap-1 Maneuver	99	464	932
Stage 1	367	-	-
Stage 2	343	-	-
Platoon blocked, %			
Mov Cap-1 Maneuver	99	464	932
Mov Cap-2 Maneuver	99	-	-
Stage 1	367	-	-
Stage 2	343	-	-

Approach

	EB	NE	SW
HCM Control Delay, s	43.9	0	0
HCM LOS	E		

Minor Lane/Major Mvmt

	NEL	NET EBLn1	SWT	SWR
Capacity (veh/h)	932	- 99	-	-
HCM Lane V/C Ratio	-	- 0.066	-	-
HCM Control Delay (s)	0	- 43.9	-	-
HCM Lane LOS	A	- E	-	-
HCM 95th %tile Q(veh)	0	- 0.2	-	-

2030 Build Saturday Midday Peak Hour



2030 Build Saturday MIDDAY
1: Route 110 & I-495 Southbound Ramps

06/01/2023

Intersection						
Int Delay, s/veh	2.4					
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations	↰	↰		↰	↰	↰
Traffic Vol, veh/h	39	136	95	437	184	269
Future Vol, veh/h	39	136	95	437	184	269
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	Yield	-	None	-	Yield
Storage Length	0	170	-	-	-	170
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	98	98	86	86	91	91
Heavy Vehicles, %	0	6	4	1	1	1
Mvmt Flow	40	139	110	508	202	296
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	930	202	202	0	-	0
Stage 1	202	-	-	-	-	-
Stage 2	728	-	-	-	-	-
Critical Hdwy	6.4	6.26	4.14	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.354	2.236	-	-	-
Pot Cap-1 Maneuver	299	829	1358	-	-	-
Stage 1	837	-	-	-	-	-
Stage 2	482	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	265	829	1358	-	-	-
Mov Cap-2 Maneuver	265	-	-	-	-	-
Stage 1	742	-	-	-	-	-
Stage 2	482	-	-	-	-	-
Approach	EB	NE	SW			
HCM Control Delay, s	12.6	1.4	0			
HCM LOS	B					
Minor Lane/Major Mvmt	NEL	NET	EBLn1	EBLn2	SWT	SWR
Capacity (veh/h)	1358	-	265	829	-	-
HCM Lane V/C Ratio	0.081	-	0.15	0.167	-	-
HCM Control Delay (s)	7.9	0	21	10.2	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.3	-	0.5	0.6	-	-

2030 Build Saturday MIDDAY
2: Route 110 & Wannalancet Road/I-495 Northbound Ramps

06/01/2023

Intersection												
Int Delay, s/veh	6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕	↕		↕	↕		↕	
Traffic Vol, veh/h	0	0	0	77	0	279	0	253	145	32	288	0
Future Vol, veh/h	0	0	0	77	0	279	0	253	145	32	288	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	Yield	-	-	None
Storage Length	-	-	-	-	-	300	-	-	240	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	25	25	25	74	74	74	94	94	94	82	82	82
Heavy Vehicles, %	0	0	0	6	0	2	0	2	2	0	5	0
Mvmt Flow	0	0	0	104	0	377	0	269	154	39	351	0

Major/Minor	Minor2		Minor1		Major1		Major2					
Conflicting Flow All	698	698	351	698	698	269	351	0	0	269	0	0
Stage 1	429	429	-	269	269	-	-	-	-	-	-	-
Stage 2	269	269	-	429	429	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.16	6.5	6.22	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.16	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.16	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.554	4	3.318	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	358	367	697	350	367	770	1219	-	-	1306	-	-
Stage 1	608	587	-	728	690	-	-	-	-	-	-	-
Stage 2	741	690	-	596	587	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	178	353	697	340	353	770	1219	-	-	1306	-	-
Mov Cap-2 Maneuver	178	353	-	340	353	-	-	-	-	-	-	-
Stage 1	608	565	-	728	690	-	-	-	-	-	-	-
Stage 2	378	690	-	574	565	-	-	-	-	-	-	-

Approach	EB	WB	NE	SW
HCM Control Delay, s	0	15.4	0	0.8
HCM LOS	A	C		




Minor Lane/Major Mvmt	NEL	NET	NER	EBLn1	WBLn1	WBLn2	SWL	SWT	SWR
Capacity (veh/h)	1219	-	-	-	340	770	1306	-	-
HCM Lane V/C Ratio	-	-	-	-	0.306	0.49	0.03	-	-
HCM Control Delay (s)	0	-	-	0	20.2	14.1	7.8	0	-
HCM Lane LOS	A	-	-	A	C	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	-	1.3	2.7	0.1	-	-

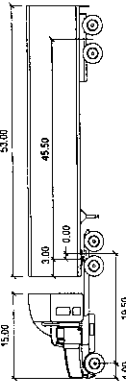
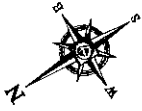
Intersection						
Int Delay, s/veh	2.7					
Movement	WBL	WBR	NET	NER	SWL	SWT
Lane Configurations	W	W	T			T
Traffic Vol, veh/h	8	89	304	11	94	266
Future Vol, veh/h	8	89	304	11	94	266
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	78	78	95	95	86	86
Heavy Vehicles, %	0	0	2	10	2	3
Mvmt Flow	10	114	320	12	109	309

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	853	326	0	0	332
Stage 1	326	-	-	-	-
Stage 2	527	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.12
Critical Hdwy Stg 1	5.4	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.218
Pot Cap-1 Maneuver	332	720	-	-	1227
Stage 1	736	-	-	-	-
Stage 2	596	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	296	720	-	-	1227
Mov Cap-2 Maneuver	296	-	-	-	-
Stage 1	736	-	-	-	-
Stage 2	532	-	-	-	-

Approach	WB	NE	SW
HCM Control Delay, s	11.9	0	2.1
HCM LOS	B		

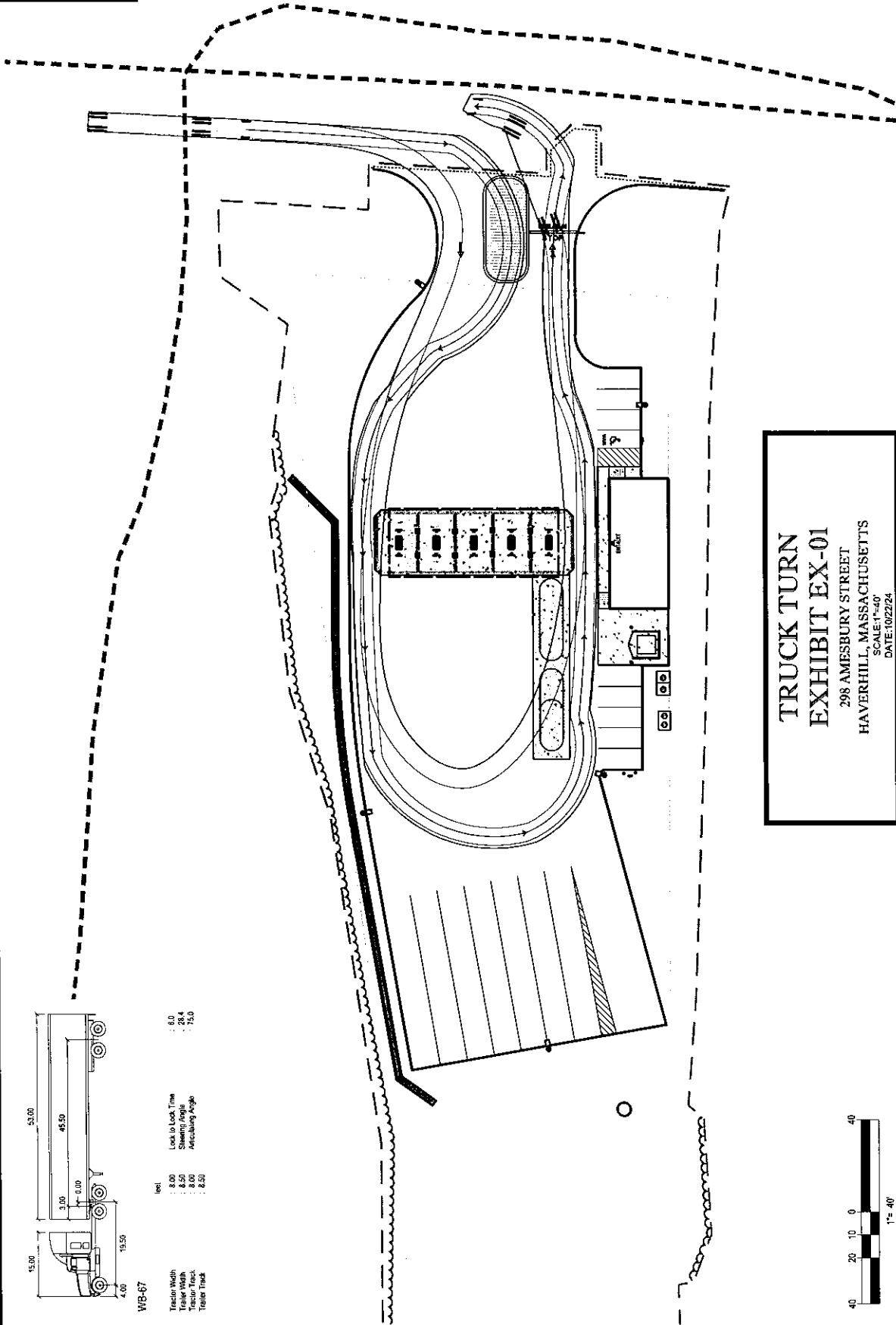
Minor Lane/Major Mvmt	NET	NERWBLn1	SWL	SWT
Capacity (veh/h)	-	-	644	1227
HCM Lane V/C Ratio	-	-	0.193	0.089
HCM Control Delay (s)	-	-	11.9	8.2
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	0.7	0.3

Intersection						
Int Delay, s/veh	0.1					
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	5	0	0	393	360	5
Future Vol, veh/h	5	0	0	393	360	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	100	0	0	2	3	100
Mvmt Flow	5	0	0	427	391	5
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	821	394	396	0	-	0
Stage 1	394	-	-	-	-	-
Stage 2	427	-	-	-	-	-
Critical Hdwy	7.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	6.4	-	-	-	-	-
Critical Hdwy Stg 2	6.4	-	-	-	-	-
Follow-up Hdwy	4.4	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	240	659	1174	-	-	-
Stage 1	512	-	-	-	-	-
Stage 2	492	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	240	659	1174	-	-	-
Mov Cap-2 Maneuver	240	-	-	-	-	-
Stage 1	512	-	-	-	-	-
Stage 2	492	-	-	-	-	-
Approach	EB	NE		SW		
HCM Control Delay, s	20.3	0		0		
HCM LOS	C					
Minor Lane/Major Mvmt	NEL	NET	EBLn1	SWT	SWR	
Capacity (veh/h)	1174	-	240	-	-	
HCM Lane V/C Ratio	-	-	0.023	-	-	
HCM Control Delay (s)	0	-	20.3	-	-	
HCM Lane LOS	A	-	C	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	



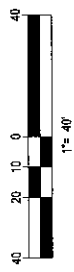
WB-67

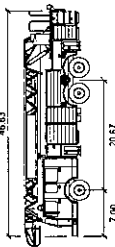
Traction Width	: 8.00	Lock to Lock Time	: 8.0
Trailer Width	: 4.50	Shifting Range	: 27.4
Trailer Lock	: 8.50	Attaching Angle	: 75.0
Trailer Track	: 8.50		



TRUCK TURN EXHIBIT EX-01

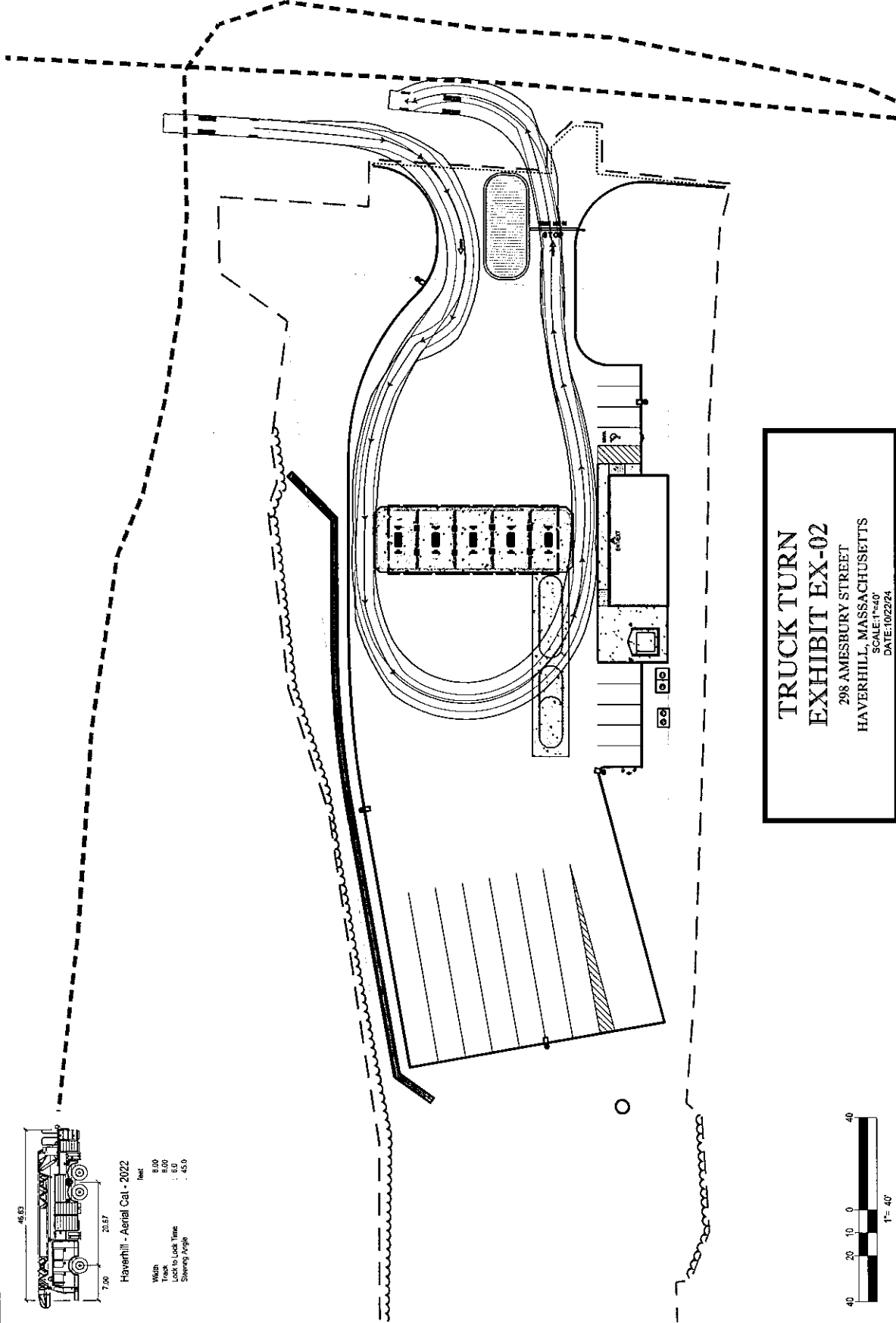
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=40'
DATE: 10/22/24



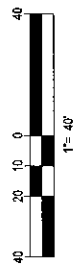


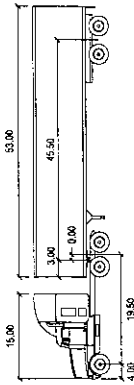
Haverhill - Aerial Cat - 2022

Width	feet
Track	8.00
Lock to Lock Time	8.00
Steering Angle	65.0



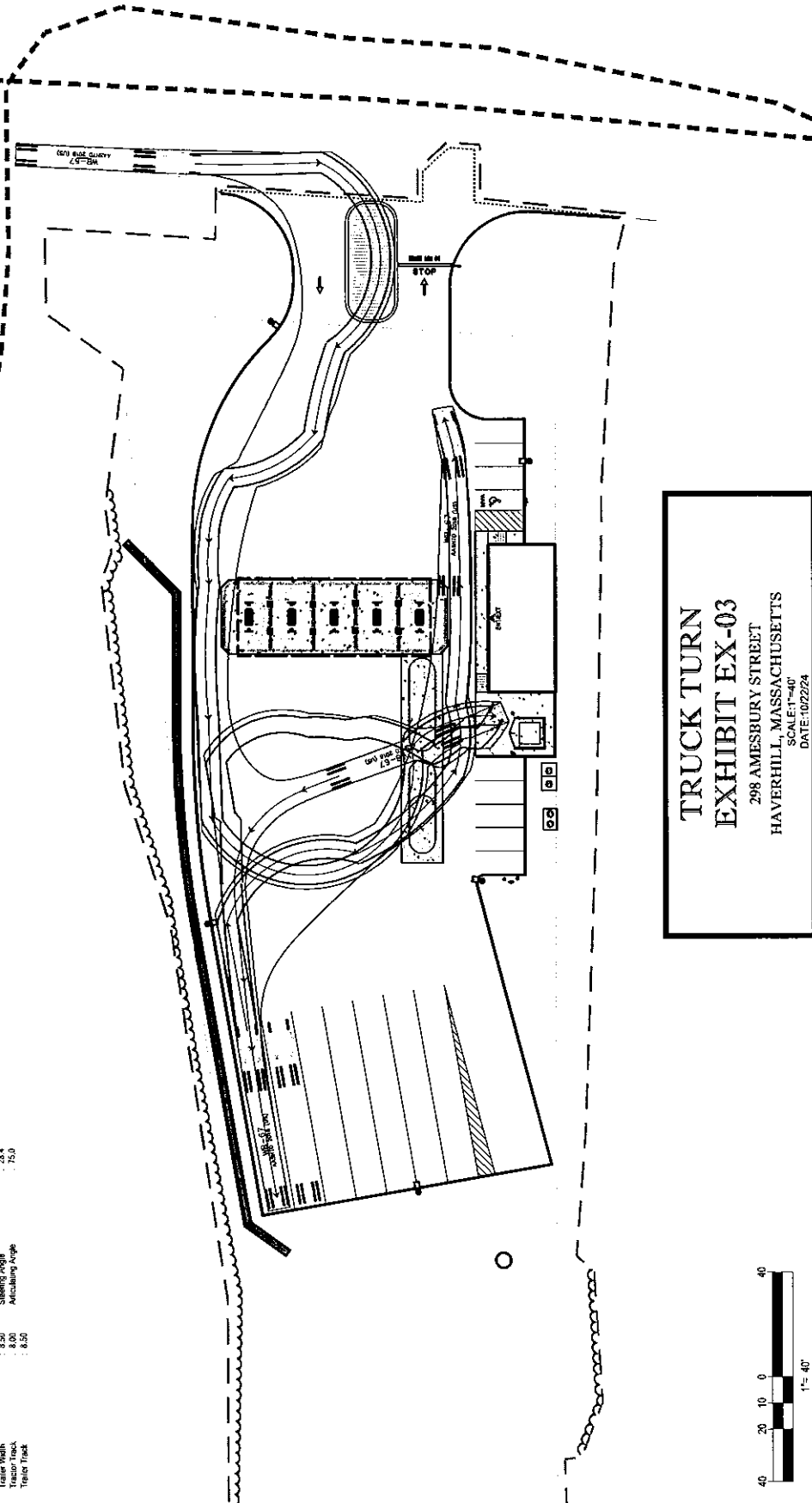
TRUCK TURN
EXHIBIT EX-02
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=40'
DATE: 10/22/24



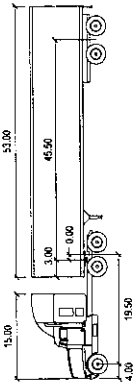


WS-67

Feet	
Traction Motor	: 8.0
Trailer Width	: 8.0
Trailer Length	: 8.0
Trailer Track	: 8.50
Lock to Lock Time	: 8.0
Steering Angle	: 8.0
Pitching Angle	: 75.0
Rolling Angle	: 8.0



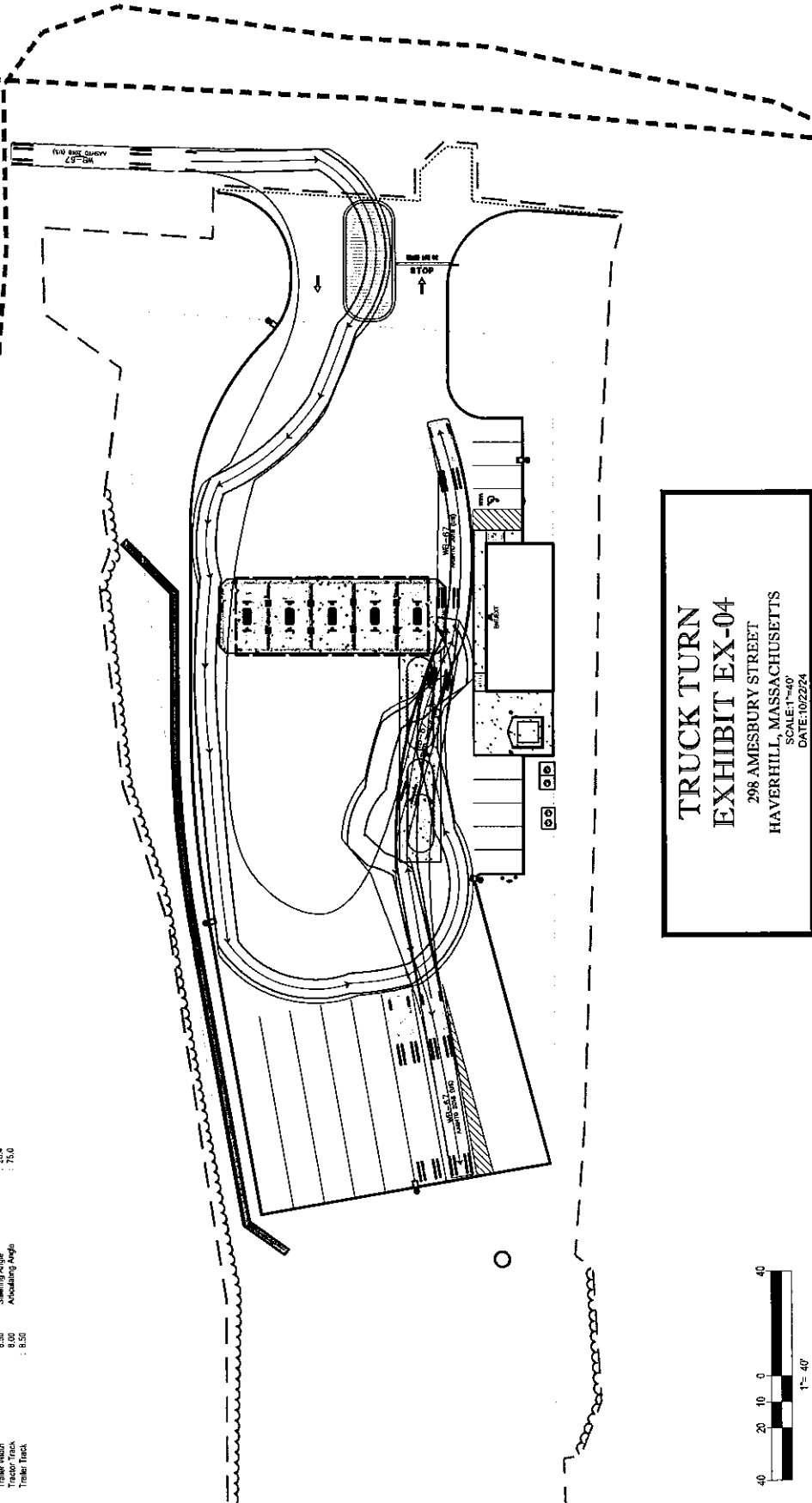
TRUCK TURN
EXHIBIT EX-03
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=40'
DATE: 10/22/24



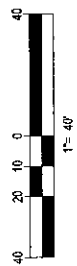
WB-67

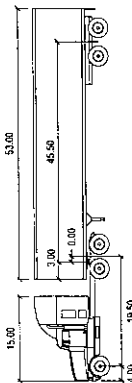
Tractor Width	: 8.00	Lock to Lock Time	: 5.0
Tractor Turn	: 8.00	Tractor Turn	: 20.0
Tractor Track	: 8.50	Tractor Angle	: 75.0

Tractor	: 8.00
Tractor Turn	: 8.00
Tractor Angle	: 8.50



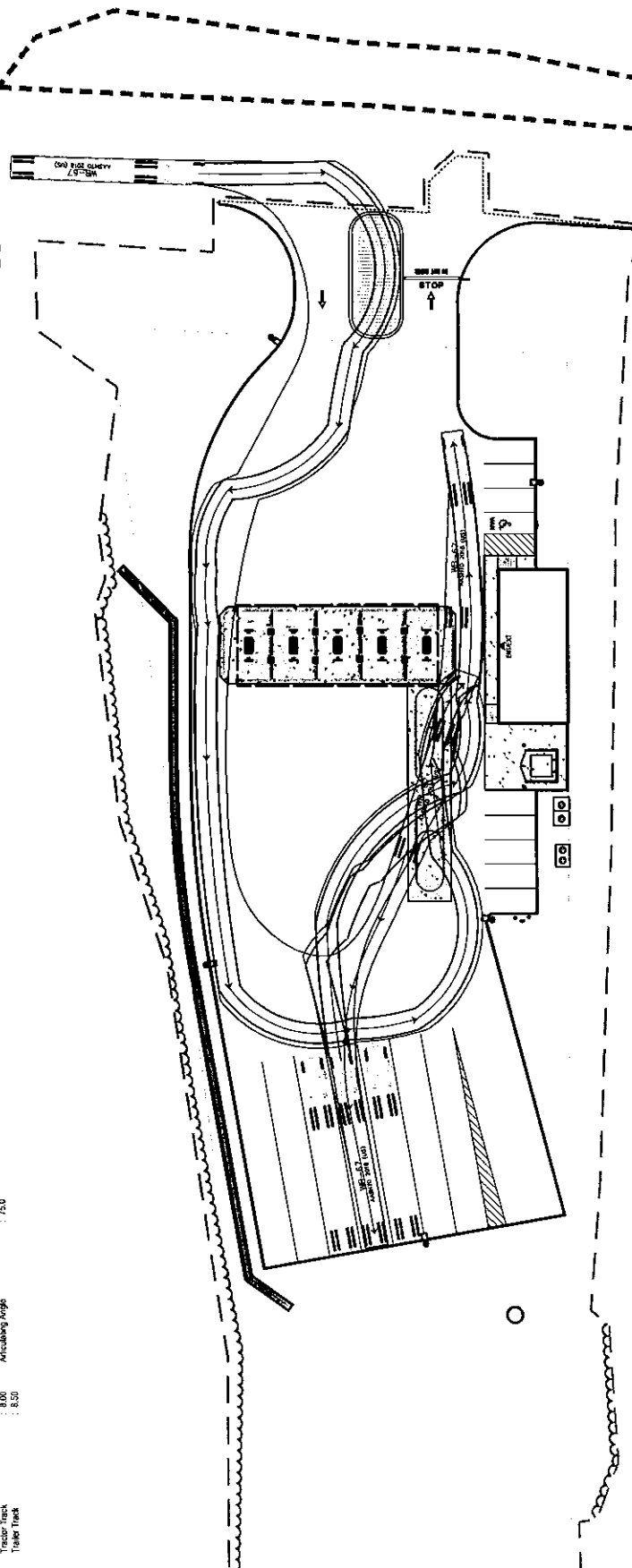
TRUCK TURN
EXHIBIT EX-04
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=40'
DATE: 10/22/24



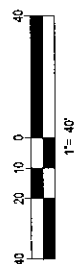


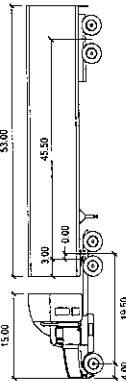
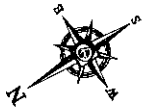
WB-67

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		



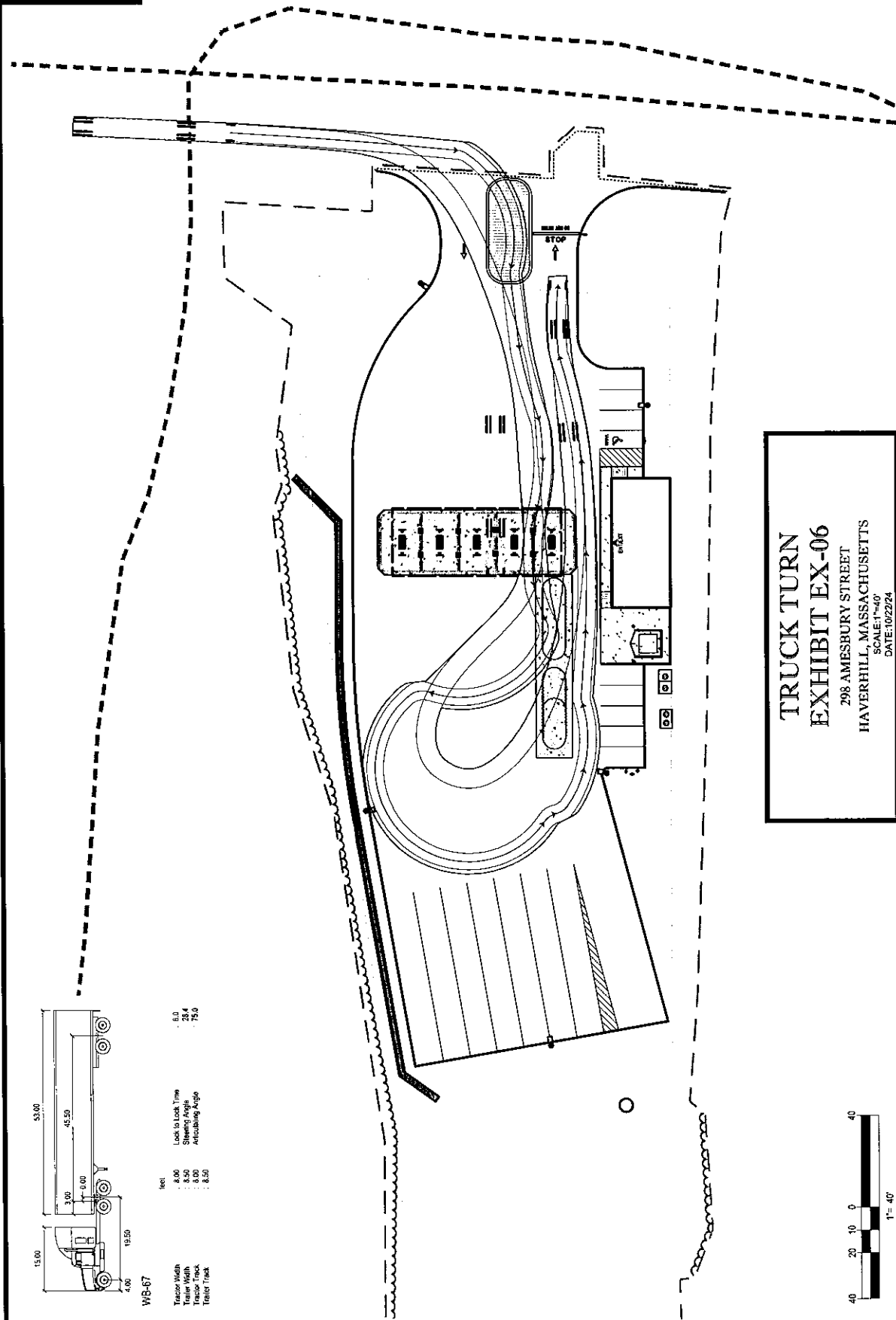
TRUCK TURN
EXHIBIT EX-05
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=40'
DATE: 10/22/24





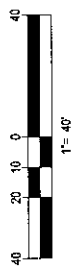
WS-67

	Feet		Feet
Tractor Width	8.00	Lock to Lock Time	8.00
Tractor Length	8.50	Steering Angle	28.4
Tractor Track	8.50	Articulating Angle	75.0
Tractor Turn	8.50		



TRUCK TURN EXHIBIT EX-06

298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=40'
DATE: 10/22/24



October 18, 2024

Via Electronic Mail

City of Haverhill Engineering Department
Haverhill City Hall – Room 300
4 Summer Street
Haverhill, MA 01830-588
5

Attn: Mr. John H. Pettis III, P.E.

**Re: Proposed Retail Petroleum Facility
298 Amesbury Road
Haverhill, Massachusetts**

Dear Mr. Pettis:

Bohler is in receipt of the four (4) outstanding comments you provided relative to a response to comments letter prepared by Vanasse & Associates, Inc. dated August 5, 2024 in connection with the above referenced location. On behalf of the Applicant, Bohler offers the following responses to the comments provided. For clarity, the original comments are in italics, while our responses are directly below in **bold** type.

Comment 1. I continue to be concerned with the proposed curb cut but will defer to MassDOT since the location is within the State Highway layout. Regarding the Traffic Report, the number of trips generated by the site seems very low. It is hard to fathom how the Site can be financially successful with only 12 customers in the AM peak, 6 customers in the PM peak and 5 in the Saturday midday peak. Would the project commit to a follow up study (6 months after construction) to confirm that the traffic generated by the site is consistent with the traffic study assumptions. If volumes are higher, there is a potential for turn lanes to be warranted along Rt 110.

Response: Comment acknowledged. Applicant is willing to agree to a follow-up study to review traffic impacts. Applicant requests, however, that the exact purview of this study be agreed to prior to construction and that the study area be limited to impacts associated with the proposed retail petroleum facility only.

Comment 2. Please forward me a copy of the MassDOT permit once obtained.

Response: Comment acknowledged. Applicant agrees to forward a copy of the MassDOT Permit to Access a State Highway once received.

Comment 3. I appreciate that the Applicant is willing to consider future access to the Business Park, should it become a reality. Access to the site via a new signal at Elliot Street would definitely be the best scenario, But I am it is not clear that the Business Park will happen at this point, mostly due to unforeseen environmental matters.

Response: Comment acknowledged. As previously noted, should the Business Park move forward, the Applicant has indicated a willingness to discuss a potential access connection to the Park.

Comment 4. See 3 above.

Response: Comment acknowledged. As previously noted, should the Business Park move forward, the Applicant has indicated a willingness to discuss a potential access connection to the Park at which point plans highlighting how such an access could be accomplished would be prepared and provided for review.

Comment. I would also be interested in seeing how the trucks will maneuver around the site to access the truck stalls in the rear. The site configuration does not seem ideal for the intended truck use. Will trucks pull straight into the fueling stations or will they circulate to the rear of the pumps and then pull forward into the fueling stations? It seems like challenging circulation.

Response: Please see the attached Truck Turning Exhibits highlighting various truck turning movements into, around, and out of the subject property.

We trust the above as well as the attached information are sufficient for your continued review of the project. Should you have any questions or require additional information, please do not hesitate to contact me at (508) 480-9900.

Sincerely,

BOHLER

A handwritten signature in blue ink, appearing to read 'Lucien M. DiStefano', with a stylized flourish at the end.

Lucien M. DiStefano

Enclosures

Ref: 9665

August 5, 2024

Mr. John H. Pettis III, P.E.
City Engineer
City of Haverhill Engineering Division
City Hall - Room 300
4 Summer Street
Haverhill, MA 01830-5885

Re: Proposed Gas Station/Convenience Store
298 Amesbury Road
Haverhill, Massachusetts

Dear Mr. Pettis:

Vanasse & Associates, Inc. (VAI) is in receipt of comments on the June 2023 VAI traffic study for the above-referenced development which were provided in an email correspondence and are dated April 4, 2024. These comments were received by VAI on July 22, 2024. VAI has prepared responses to these comments below. To aid review, the comments are reproduced followed by our response.

General

Comment No. 1: *The location of the proposed curb cut is closer to the Route 495 ramps than the existing curb cut for the property. While the Report states the existing crashes at the three area unsignalized intersections is not above the regional average, it is noted that it shows crashes at the Rt 110/495 NB ramps is TRIPLE crashes at the Rt 110/495 SB ramps. A new curb cut, closer to the intersection and more heavily utilized, continues to be a concern.*

Response: An in-depth analysis of the crash data for that intersection indicated that several of the crashes are associated with vehicles exiting from Wannalancet Road, which appears to have limited sight lines for vehicles exiting to Route 110. The sight lines are limited by signs, electricity poles, and vegetation in the area. There are also vertical curves that may impact sight lines. However, the sight distance at the Project site driveway is shown to exceed the recommended values for stopping sight distance and intersection sight distance. The proposed curb cut for the site will also have less conflicting traffic associated with it as fewer crossing-type maneuvers will occur at this location.

Comment No. 2: *Does the project have a valid Permit from MassDOT for the new curb cut? If so, were there any conditions associated?*

Response: The state application process has not been started. Typically, all local approvals must be obtained before applying for a curb cut permit from the state.

Comment No. 3: *The Report also does not discuss the potential new Business Park Roadway, and the advantages that access off of it for this project has from a safety standpoint over a new*

Rt 110 curb cut. I continue to believe this is a far superior access for safety reasons, especially as the new Roadway would be off of Rt 110 at a signalized intersection.

Response: This project is separate from the potential Business Park and due to the uncertainty of the Business Park development, is not proposed to have access through the Park. Should the Business Park move forward, the Applicant has indicated they are willing to consider an access connection to the Park, subject to a review of access and circulation as this will require changes to the Applicant's site plan.

Comment No. 4: *I have not seen a plan indicating how site access to such a new Business Park Roadway could be accomplished, and how the new Rt 110 curb cut would be discontinued/removed.*

Response: See response to Comment No. 3.

VAI appreciates the opportunity to provide responses to the comments as noted above. If there are any questions or concerns regarding this information, feel free to contact me at sthornton@rdva.com.

Sincerely,

VANASSE & ASSOCIATES, INC.



Scott W. Thornton, P.E.
Partner

Cc: File



July 7, 2023

City of Haverhill
City Council
4 Summer Street #204
Haverhill, MA 01830

RE: Proposed Fueling Station
298 Amesbury Road
Haverhill, Massachusetts

To Whom It May Concern:


Environmental Risk Advisors, LLC (ERA) has prepared this letter regarding the underground storage tank (UST) system to be installed at the above referenced Site.

Based on the information provided to ERA it appears the following safety measures will be implemented in the installation of the new UST system. These include the following:

- The new USTs to be installed will be constructed of fiberglass and will be double walled with interstitial monitoring technology. Interstitial monitoring is a method that looks for evidence of a release in the space between the primary tank and an outer barrier.
- The supply lines leading from the USTs to the dispensers will be double walled flex piping;
- The UST system will be monitored 24/7 by a Franklin Fuel Evo Series System. The system monitors the interstitial spaces by using a combination of single and dual channel TS-SCCM secondary containment control modules and secondary syphon ports. The secondary containment control module collects information on all interstitial spaces and delivers it to an EVO Series ATG for reporting and alarms. The EVO Series ATG Provides inventory monitoring, static and continuous tank testing, optional tank autocalibration, optional inventory reconciliation, and containment compliance monitoring.

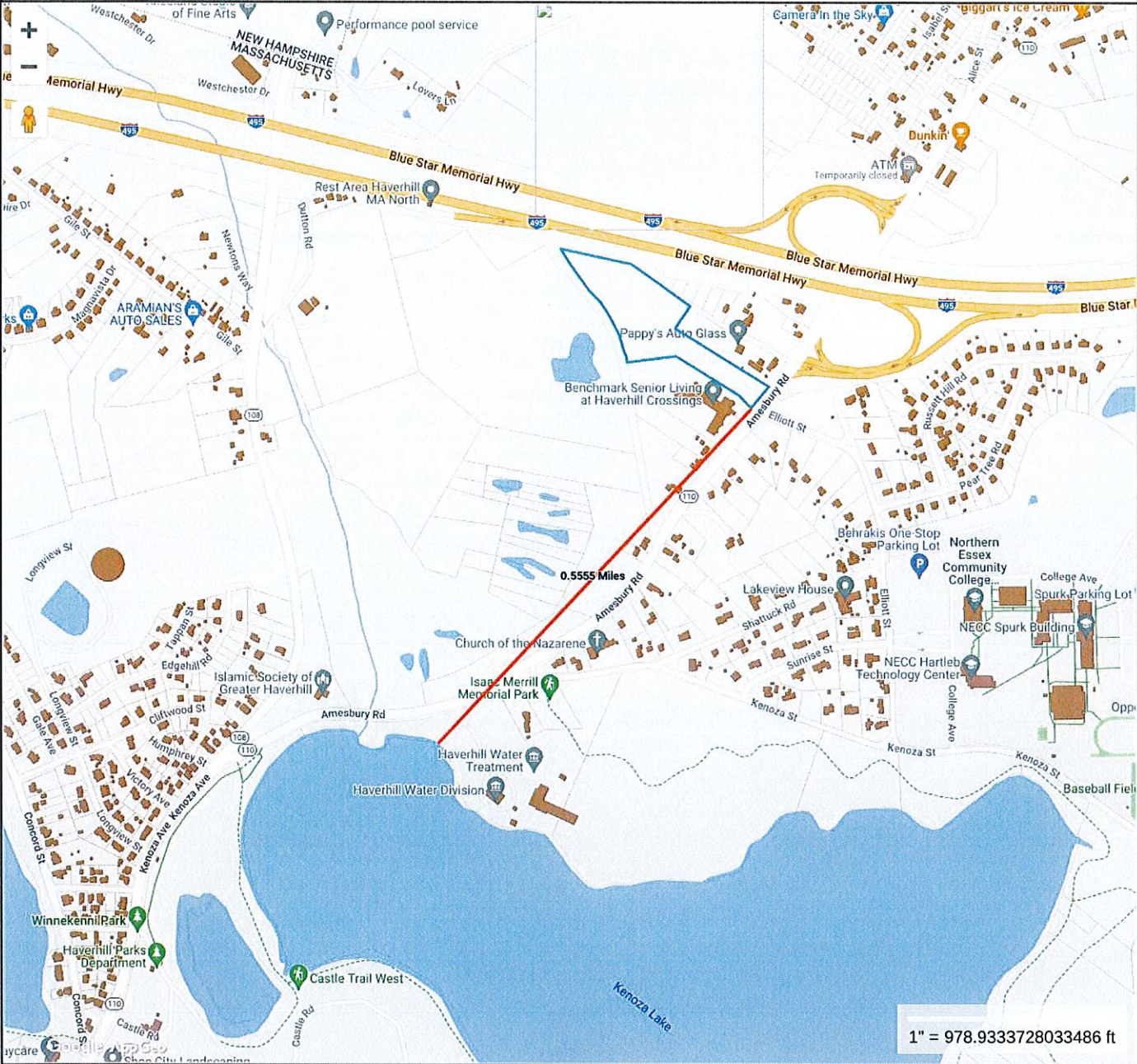
With the following systems to be installed at the facility the risk of a release to the environment would be unlikely with the safety features to be installed at the Site. If there are any questions, please do not hesitate to contact our office.

Sincerely,
ENVIRONMENTAL RISK ADVISORS, LLC



Christopher P. Parent, LSP
President

Proposed Fueling Station, 298 Amesbury Rd., Haverhill, MA



Property Information

Property ID 465-4-5B1
Location AMESBURY RD
Owner NORTHERN ESSEX REALTY TRUST



MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Haverhill, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.
Geometry updated February 5, 2019
Data updated February 4, 2019

Print map scale is approximate.
Critical layout or measurement activities should not be done using this resource.

2



April 30, 2025

Haverhill City Council
c/o Thomas C. Fallon, Esq.
900 Cummings Center, Suite 306T
Beverly, MA 01915

**Re: UST Installation Design Peer review
298 Amesbury Road
Haverhill, Massachusetts**

Dear Mr. Fallon:

Tetra Tech, Inc. is pleased to submit this peer review report for the Underground Storage Tank (UST) design for the referenced property (the Site).

UST Peer Review

Tetra Tech has reviewed design documents related to the proposed underground storage tank (UST) fueling station installation at 298 Amesbury Road in Haverhill, Massachusetts. Documents reviewed include a site plan, product brochures, specifications, and cut sheets. Tetra Tech reviewed the design documents for compliance with the Massachusetts Underground Storage Tank Regulations (310 CMR 80.000), applicable guidance, and industry practice.

The proposed tanks are double-walled fiberglass reinforced plastic tanks per 310 CMR 80.017(1)(b). Two 20,000-gallon diesel USTs and one 2,500-gallon Diesel Exhaust Fluid (DEF) tanks are proposed. The tanks will be provided by ZCL/Xerxes.

The tanks include a 12" x 12" striker plate at least ¼" thick per 310 CMR 80.017(2).

Proposed piping is double walled, product compatible, non-corrodible material per 310 CMR 80.018(3). The double walled piping will be provided by FlexWorks.

Tank and line leak detection will be accomplished via a Franklin Fueling Systems TS-550 Evo or Veeder-Root TLS 450 system that provides continuous monitoring, overfill prevention, and alarms per 310 CMR 80.19 and 80.21.

Dispensers will include dispenser sumps that are continuously monitored. Turbine sumps will also be continuously monitored per 310 CMR 80.20.

Spill buckets with a minimum capacity of 5 gallons will be installed on all tanks per 310 CMR 80.21.

For the purpose of this review, Tetra Tech assumes tanks and system installations will be conducted in accordance with 310 CMR 80.16-22 including all testing, inspection, and recordkeeping requirements, and that tanks will be installed in accordance with American Petroleum Institute (API) recommended Practice 1615 - Installation of Underground Petroleum Storage Systems, National Fire Protection Association (NFPA)

Marlborough Technology Park
100 Nickerson Road, Marlborough, MA 01752
Tel 508.786.2200 Fax 508.786.2201 tetratech.com


30 Flammable and Combustible Liquids Code, and PEI RP100 - Recommended Practices for Installation of Underground Liquid Storage Systems.

The City Council could consider a condition of the permit that requires that all tanks and associated systems be installed in accordance with all applicable regulations, standards, and industry practices.

Based on our review of the design documents and the assumption that installation and operation of the system will be in accordance with the applicable regulations and standards, the proposed tank installation does not pose a threat of release to the environment.

Please contact Matt Madden at (508) 254-3469 if you have any questions regarding this matter.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Matt Madden', with a stylized, cursive script.

Matthew T. Madden, PE, LSP
Director

C. Donald F. Borenstein, Esq.

P:\836844\143-836844-2500\1\DOCS\REPORTS\2025-04-30 UST HAVERHILL PEER REVIEW.DOCX

3



July 7, 2023

City of Haverhill
City Council
4 Summer Street #204
Haverhill, MA 01830

RE: Proposed Fueling Station
298 Amesbury Road
Haverhill, Massachusetts

To Whom It May Concern:

Environmental Risk Advisors, LLC (ERA) has prepared this letter regarding the underground storage tank (UST) system to be installed at the above referenced Site.

Based on the information provided to ERA it appears the following safety measures will be implemented in the installation of the new UST system. These include the following:

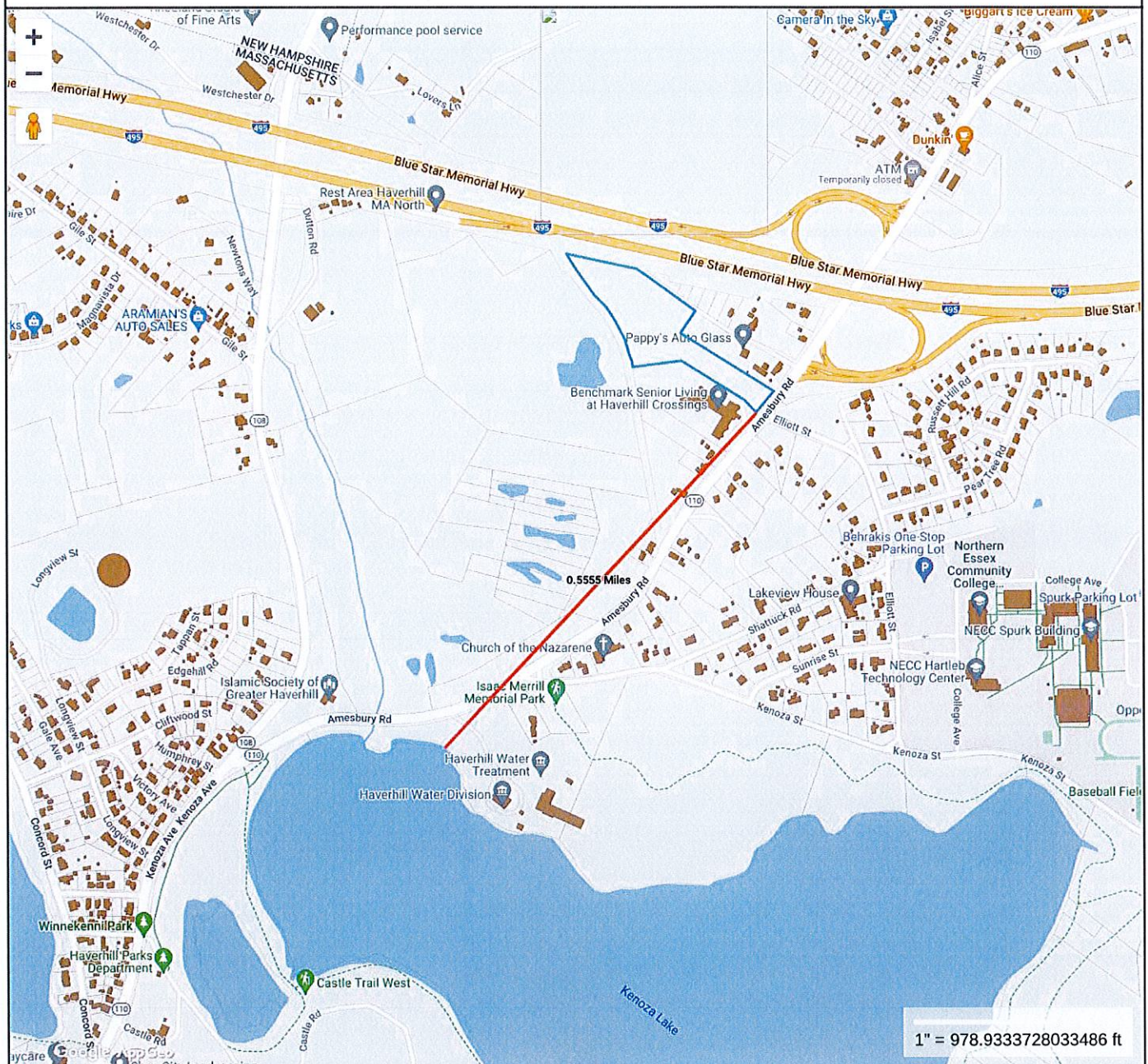
- The new USTs to be installed will be constructed of fiberglass and will be double walled with interstitial monitoring technology. Interstitial monitoring is a method that looks for evidence of a release in the space between the primary tank and an outer barrier.
- The supply lines leading from the USTs to the dispensers will be double walled flex piping;
- The UST system will be monitored 24/7 by a Franklin Fuel Evo Series System. The system monitors the interstitial spaces by using a combination of single and dual channel TS-SCCM secondary containment control modules and secondary syphon ports. The secondary containment control module collects information on all interstitial spaces and delivers it to an EVO Series ATG for reporting and alarms. The EVO Series ATG Provides inventory monitoring, static and continuous tank testing, optional tank autocalibration, optional inventory reconciliation, and containment compliance monitoring.

With the following systems to be installed at the facility the risk of a release to the environment would be unlikely with the safety features to be installed at the Site. If there are any questions, please do not hesitate to contact our office.

Sincerely,
ENVIRONMENTAL RISK ADVISORS, LLC

Christopher P. Parent, LSP
President

Proposed Fueling Station, 298 Amesbury Rd., Haverhill, MA

**Property Information**

Property ID 465-4-5B1
 Location AMESBURY RD
 Owner NORTHERN ESSEX REALTY TRUST



**MAP FOR REFERENCE ONLY
 NOT A LEGAL DOCUMENT**

City of Haverhill, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated February 5, 2019
 Data updated February 4, 2019

Print map scale is approximate.
 Critical layout or measurement activities should not be done using this resource.

4

Ref: 9665

August 5, 2024

Mr. John H. Pettis III, P.E.
City Engineer
City of Haverhill Engineering Division
City Hall - Room 300
4 Summer Street
Haverhill, MA 01830-5885

Re: Proposed Gas Station/Convenience Store
298 Amesbury Road
Haverhill, Massachusetts

Dear Mr. Pettis:

Vanasse & Associates, Inc. (VAI) is in receipt of comments on the June 2023 VAI traffic study for the above-referenced development which were provided in an email correspondence and are dated April 4, 2024. These comments were received by VAI on July 22, 2024. VAI has prepared responses to these comments below. To aid review, the comments are reproduced followed by our response.

General

Comment No. 1: *The location of the proposed curb cut is closer to the Route 495 ramps than the existing curb cut for the property. While the Report states the existing crashes at the three area unsignalized intersections is not above the regional average, it is noted that it shows crashes at the Rt 110/495 NB ramps is TRIPLE crashes at the Rt 110/495 SB ramps. A new curb cut, closer to the intersection and more heavily utilized, continues to be a concern.*

Response: An in-depth analysis of the crash data for that intersection indicated that several of the crashes are associated with vehicles exiting from Wannalancet Road, which appears to have limited sight lines for vehicles exiting to Route 110. The sight lines are limited by signs, electricity poles, and vegetation in the area. There are also vertical curves that may impact sight lines. However, the sight distance at the Project site driveway is shown to exceed the recommended values for stopping sight distance and intersection sight distance. The proposed curb cut for the site will also have less conflicting traffic associated with it as fewer crossing-type maneuvers will occur at this location.

Comment No. 2: *Does the project have a valid Permit from MassDOT for the new curb cut? If so, were there any conditions associated?*

Response: The state application process has not been started. Typically, all local approvals must be obtained before applying for a curb cut permit from the state.

Comment No. 3: *The Report also does not discuss the potential new Business Park Roadway, and the advantages that access off of it for this project has from a safety standpoint over a new*

Mr. John H. Pettis III, P.E.
August 5, 2024
Page 2 of 2

Rt 110 curb cut. I continue to believe this is a far superior access for safety reasons, especially as the new Roadway would be off of Rt 110 at a signalized intersection.

Response: This project is separate from the potential Business Park and due to the uncertainty of the Business Park development, is not proposed to have access through the Park. Should the Business Park move forward, the Applicant has indicated they are willing to consider an access connection to the Park, subject to a review of access and circulation as this will require changes to the Applicant's site plan.

Comment No. 4: *I have not seen a plan indicating how site access to such a new Business Park Roadway could be accomplished, and how the new Rt 110 curb cut would be discontinued/removed.*

Response: See response to Comment No. 3.

VAI appreciates the opportunity to provide responses to the comments as noted above. If there are any questions or concerns regarding this information, feel free to contact me at sthornton@rdva.com.

Sincerely,

VANASSE & ASSOCIATES, INC.



Scott W. Thornton, P.E.
Partner

Cc: File



5



352 Turnpike Road
Southborough, MA 01772
508.480.9900

October 18, 2024

Via Electronic Mail

City of Haverhill Engineering Department
Haverhill City Hall – Room 300
4 Summer Street
Haverhill, MA 01830-588
5

Attn: Mr. John H. Pettis III, P.E.

**Re: Proposed Retail Petroleum Facility
298 Amesbury Road
Haverhill, Massachusetts**

Dear Mr. Pettis:

Bohler is in receipt of the four (4) outstanding comments you provided relative to a response to comments letter prepared by Vanasse & Associates, Inc. dated August 5, 2024 in connection with the above referenced location. On behalf of the Applicant, Bohler offers the following responses to the comments provided. For clarity, the original comments are in italics, while our responses are directly below in bold type.

Comment 1. I continue to be concerned with the proposed curb cut but will defer to MassDOT since the location is within the State Highway layout. Regarding the Traffic Report, the number of trips generated by the site seems very low. It is hard to fathom how the Site can be financially successful with only 12 customers in the AM peak, 6 customers in the PM peak and 5 in the Saturday midday peak. Would the project commit to a follow up study (6 months after construction) to confirm that the traffic generated by the site is consistent with the traffic study assumptions. If volumes are higher, there is a potential for turn lanes to be warranted along Rt 110.

Response: Comment acknowledged. Applicant is willing to agree to a follow-up study to review traffic impacts. Applicant requests, however, that the exact purview of this study be agreed to prior to construction and that the study area be limited to impacts associated with the proposed retail petroleum facility only.

Comment 2. Please forward me a copy of the MassDOT permit once obtained.

Response: Comment acknowledged. Applicant agrees to forward a copy of the MassDOT Permit to Access a State Highway once received.

Comment 3. I appreciate that the Applicant is willing to consider future access to the Business Park, should it become a reality. Access to the site via a new signal at Elliot Street would definitely be the best scenario, But I am it is not clear that the Business Park will happen at this point, mostly due to unforeseen environmental matters.

Response: Comment acknowledged. As previously noted, should the Business Park move forward, the Applicant has indicated a willingness to discuss a potential access connection to the Park.

Comment 4. See 3 above.

Response: Comment acknowledged. As previously noted, should the Business Park move forward, the Applicant has indicated a willingness to discuss a potential access connection to the Park at which point plans highlighting how such an access could be accomplished would be prepared and provided for review.

BOHLER //

Comment. *I would also be interested in seeing how the trucks will maneuver around the site to access the truck stalls in the rear. The site configuration does not seem ideal for the intended truck use. Will trucks pull straight into the fueling stations or will they circulate to the rear of the pumps and then pull forward into the fueling stations? It seems like challenging circulation.*

Response: Please see the attached Truck Turning Exhibits highlighting various truck turning movements into, around, and out of the subject property.

We trust the above as well as the attached information are sufficient for your continued review of the project. Should you have any questions or require additional information, please do not hesitate to contact me at (508) 480-9900.

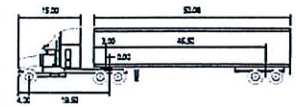
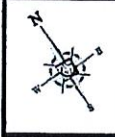
Sincerely,

BOHLER



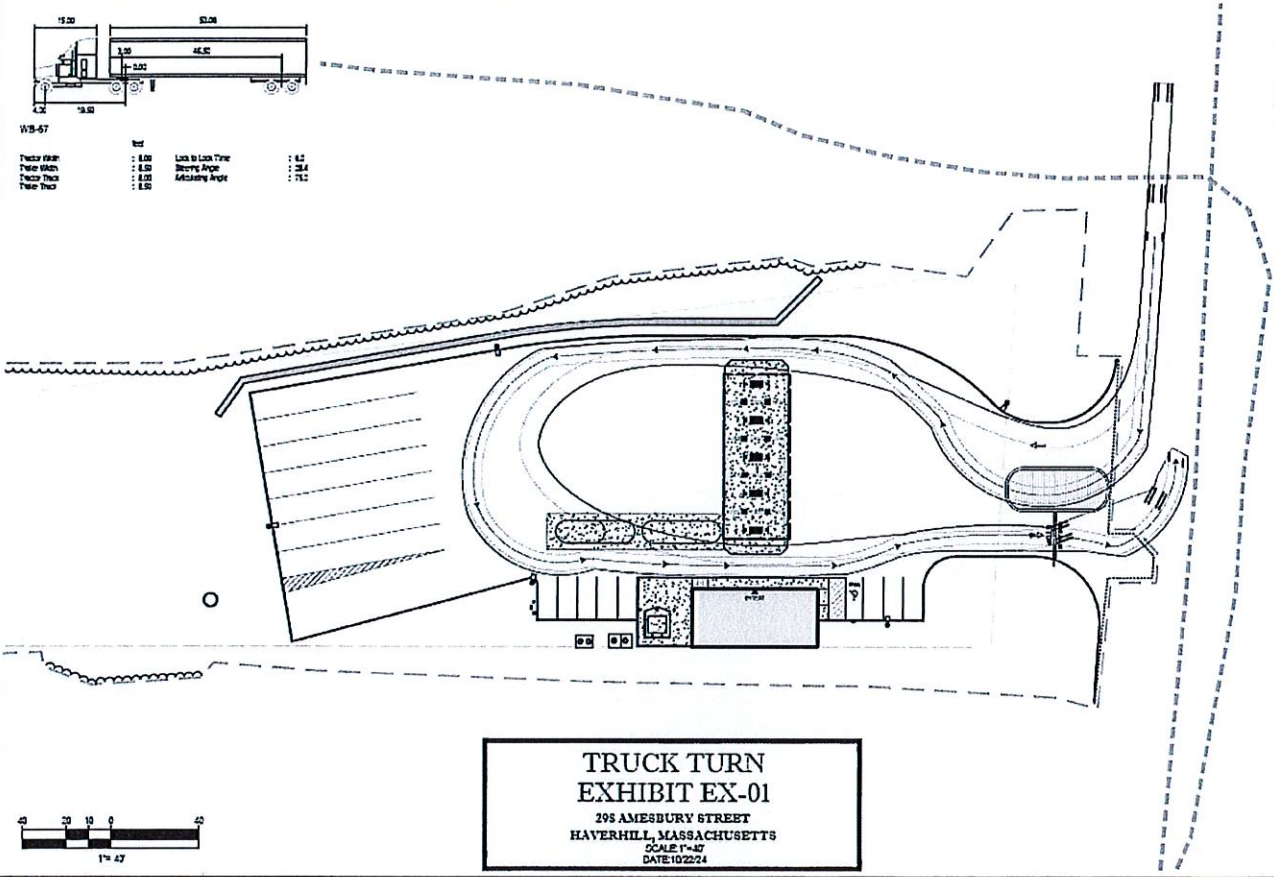
Lucien M. DiStefano

Enclosures

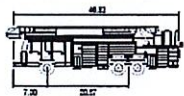


WB-67

Trailer Width	: 8.50	Lock to Lock Time	: 6.2
Trailer Length	: 8.50	Turning Angle	: 38.4
Trailer Thickness	: 8.50	Advancing Angle	: 75.2
Trailer Thickness	: 8.50		

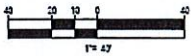


TRUCK TURN
EXHIBIT EX-01
295 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE 1"=30'
DATE 10/22/24



Haverhill - Aerial Cat - 2022

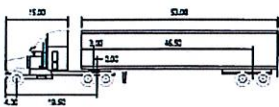
Width	8.00
Turn	8.00
Lead to Lead Time	8.8
Turning Angle	45.8



1" = 30'

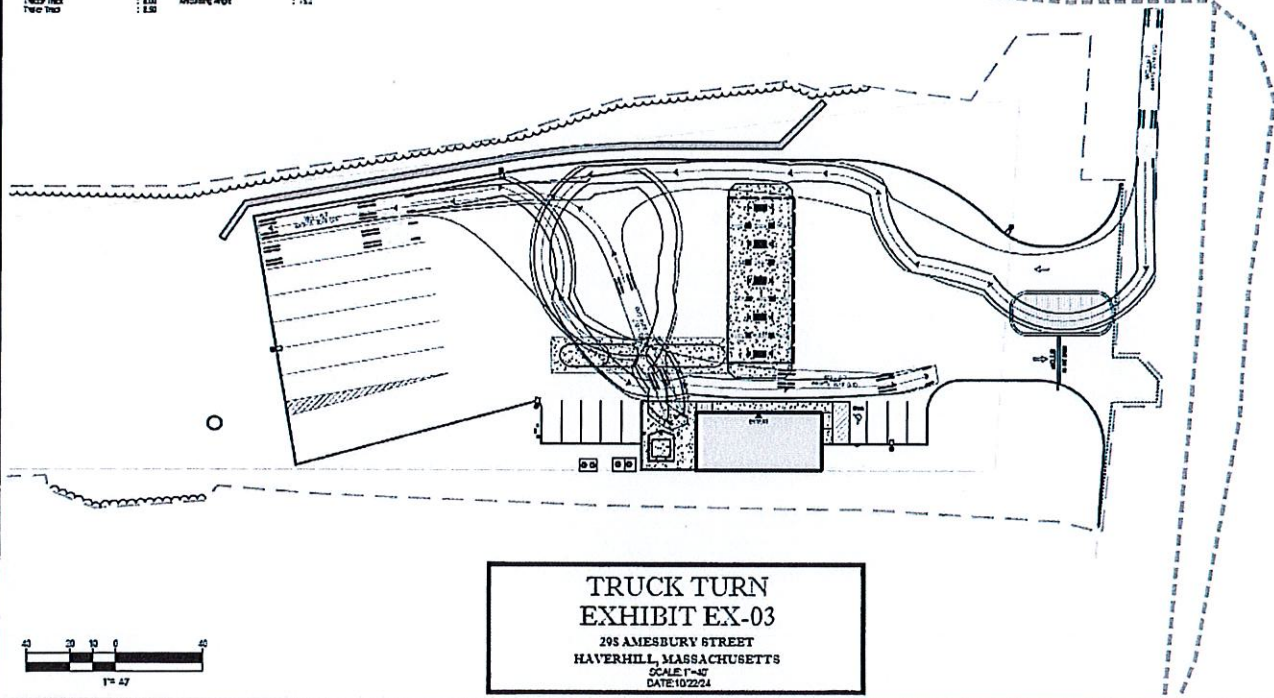
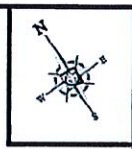
TRUCK TURN EXHIBIT EX-02

298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE 1"=30'
DATE 10/22/24

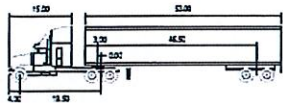


WB-67

	ft		
Truck Width	: 8.00	Lock to Lock Time	: 0.2
Truck Height	: 8.00	Swinging Angle	: 20.4
Truck Track	: 8.00	Approach Angle	: 15.2
Truck Time	: 8.00		

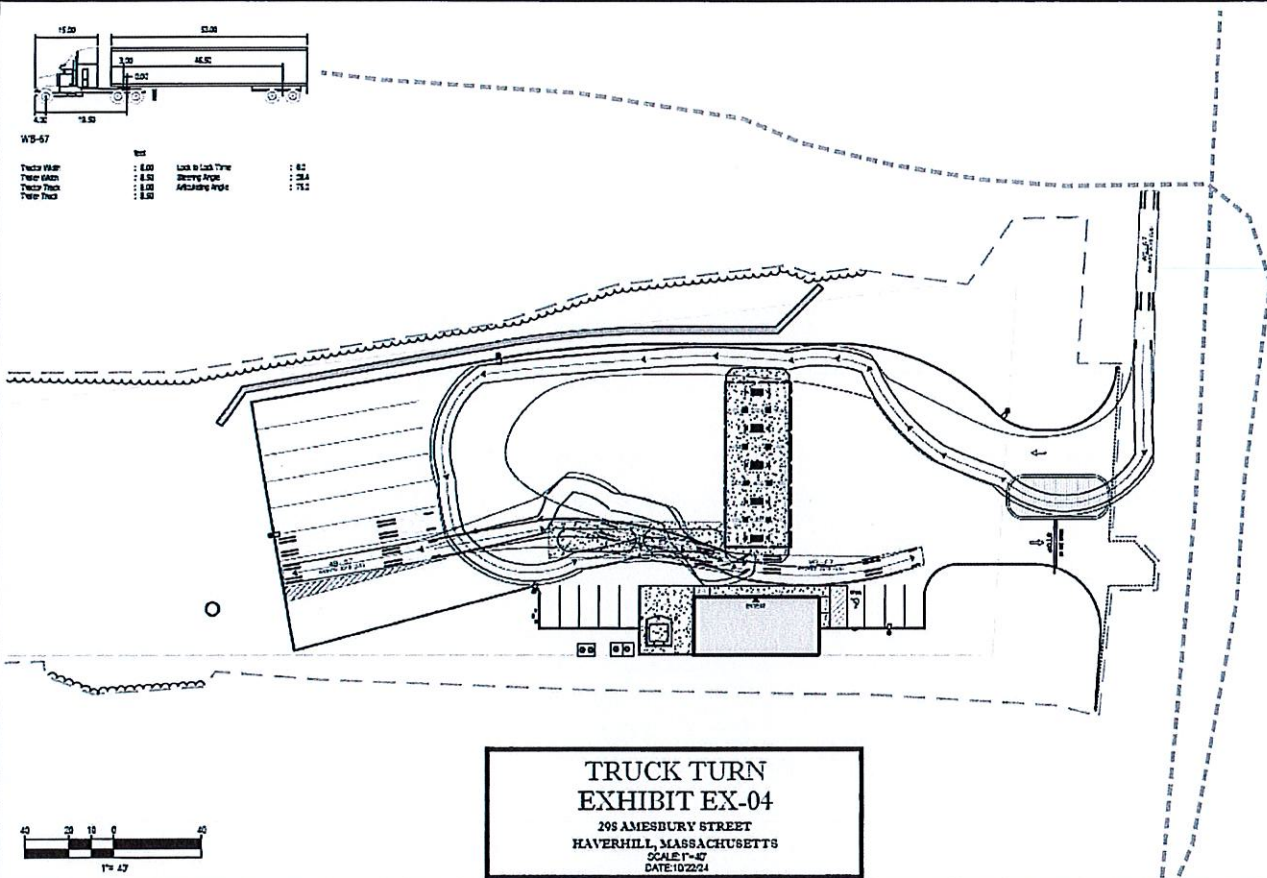


TRUCK TURN
EXHIBIT EX-03
295 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=50'
DATE: 10/22/24



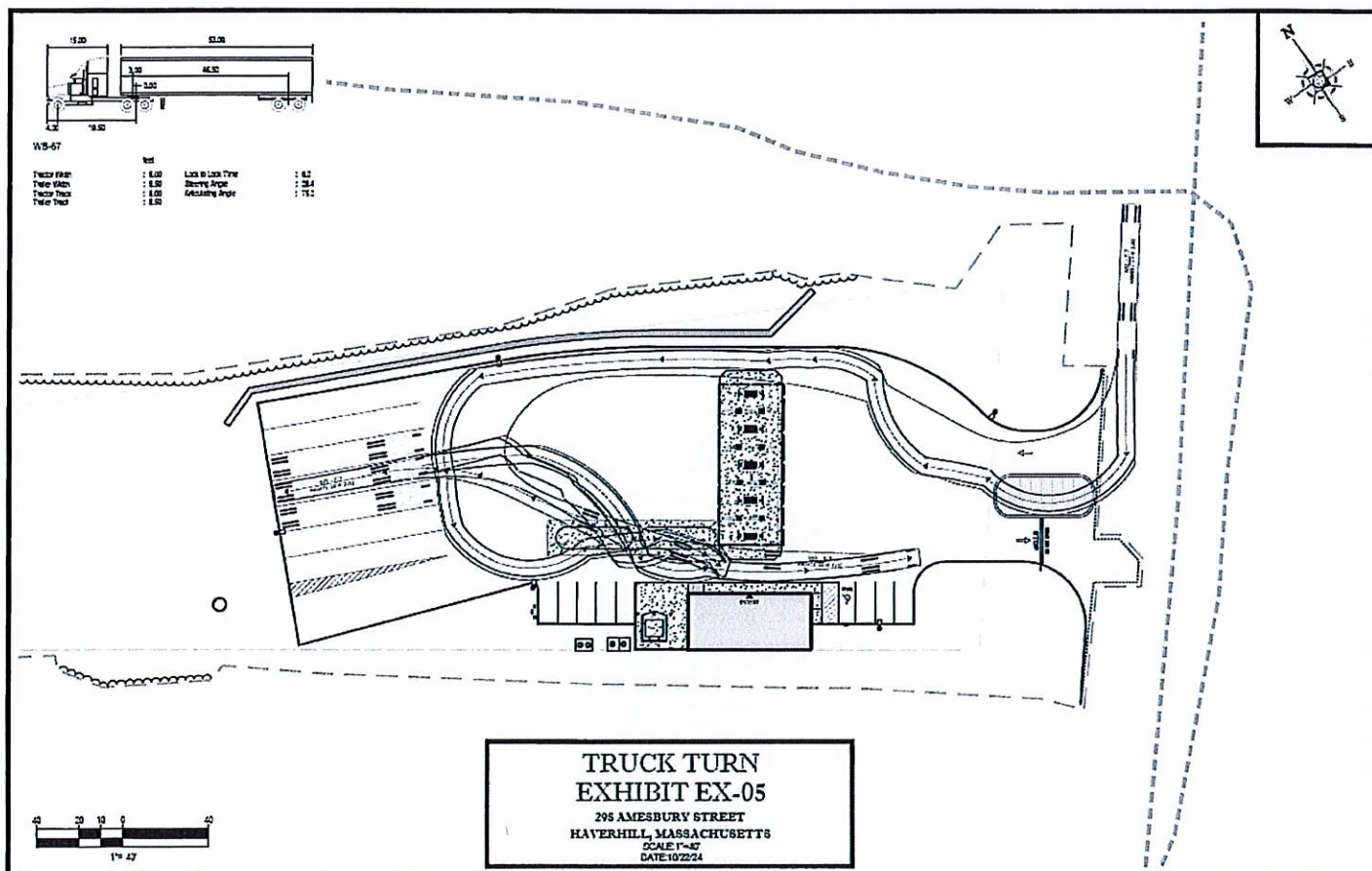
WB-47

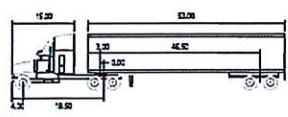
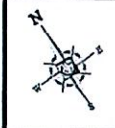
Test	Test	Test	Test
Truck Mass	: 6.00	Look A-Like Time	: 6.0
Truck Mass	: 6.00	Stopping Angle	: 28.8
Truck Mass	: 6.00	Arrival Angle	: 71.2
Truck Mass	: 6.00		



TRUCK TURN EXHIBIT EX-04

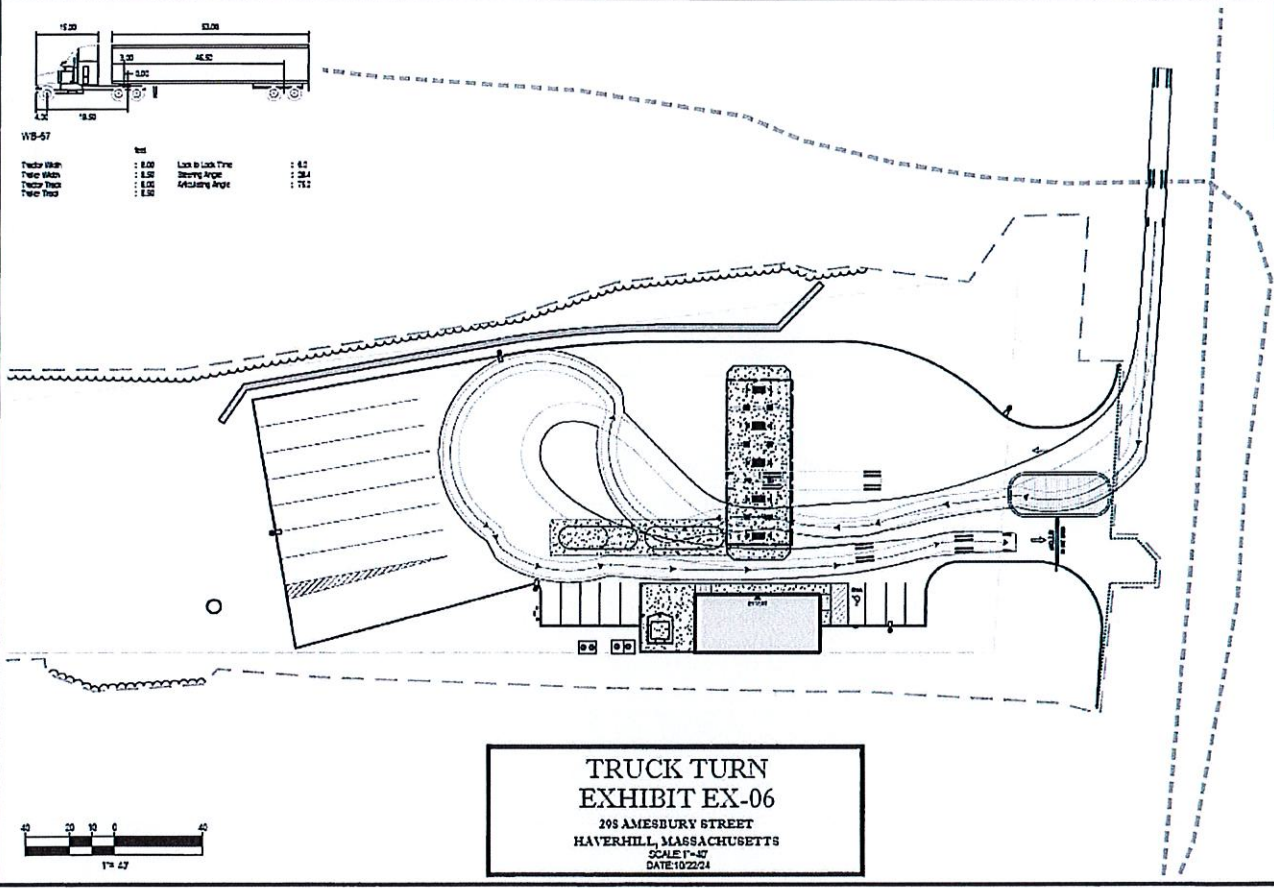
295 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE 1"=47'
DATE 10/22/94





WB-57

Test			
Truck Width	: 8.00	Lock to Lock Time	: 6.5
Truck Width	: 8.00	Steering Angle	: 38.4
Truck Wheel	: 8.00	Articulating Angle	: 75.2
Truck Wheel	: 8.00		



TRUCK TURN EXHIBIT EX-06

205 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1"=47'
DATE: 10/22/21



6

Kayrouz Petroleum LLC

Land Court

Dept. # 21MISC 00044

v.

Haverhill City Council

Essex Sup. Court

2277 CV 00848

Memorandum of
Settlement Terms

1. Kayrouz will have its project team prepare the following engineering / expert reports:-

A. Traffic Study, including consideration of

- i. Traffic Impact and volumes
- ii. Adequacy of project facilities and adjacent roadway infrastructure
- iii. Potential mitigation & access points, safety etc.

B. Fuel tank safety, leak prevention, ^{leak} mitigation and response protocol.

2. The above reports will be submitted to the following City Authorities for review, comment, and recommendation to City Council

A. Traffic Report -

City Engineer
City Police Dept, Fire Department

B. Truck Safety Report -

City Engineer
City Building Inspector
City Board of Health
Fire Department

C. All other departments as necessary, as directed by City Council's Attorney.

There City Council through its counsel will request input from above City Authorities as necessary, if necessary,

3. The parties shall file a joint motion with the Land Court to remand the pending Appeal to the City Council for them to reopen their hearing, take in

additional information, and reconsider their denial.

City Council will reopen its hearing within 45 days of receiving final reports from Kayrouz and ^{final} recommendations from the listed City Authorities

4. Upon approval of the Kayrouz Application in a form satisfactory to Kayrouz, the pending Appeals shall be dismissed with prejudice and without costs.

In the event of a denial or imposition of conditions by the Council unsatisfactory to Kayrouz, the matter shall return to the Land Court for adjudication.

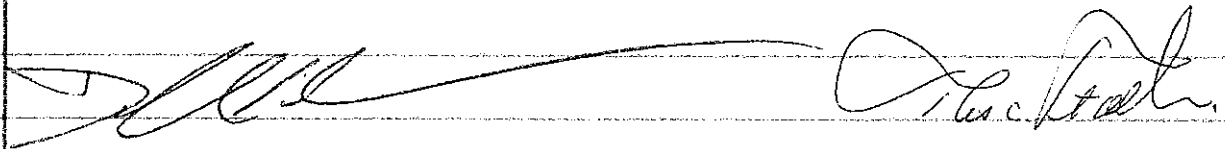
5. The parties shall jointly

move to stay the Superior
Court action until the
City Council reconsiders its
denial of the Kayrouz Application

6. Subject to City Council review, City Council
expects to seek approval of same on Feb 7, 2023.

Counsel for Kayrouz
Petroleum LLC,

Counsel for
City Council,



7

COMMONWEALTH OF MASSACHUSETTS
LAND COURT
DEPARTMENT OF THE TRIAL COURT

ESSEX, ss.

Case No. 22 MISC 000444 (DRR)

KAYROUZ PETROLEUM LLC,

Plaintiff,

v.

TIMOTHY J. JORDAN, JOHN A. MICHITSON,
MELINDA BARRETT, JOSEPH J.
BEVILACQUA, THOMAS J. SULLIVAN,
MELISSA LEWANDOWSKI, MICHAEL S.
MCGONAGLE, CATHERINE P. ROGERS, and
SHAUN TOOHEY, as they are members of the
CITY COUNCIL FOR THE CITY OF
HAVERHILL,

Defendants.

ORDER OF REMAND

Upon review, the parties' Joint Motion for Remand is hereby **ALLOWED** and the matter is remanded to the City Council for the City of Haverhill and with the assent of all parties, the Court hereby orders as follows:

1. Kayrouz Petroleum LLC ("Kayrouz") shall prepare and submit a Traffic Report to the City Engineer and a Fuel Tank Safety Report to the City Engineer, Building Inspector, Board of Health, and Fire Department, for review, comment, and recommendation to the City Council.
2. Within forty-five (45) days of receiving the reports and recommendations, the City Council shall re-open its hearing to reconsider its denial of Kayrouz's application.
3. This Court shall retain jurisdiction during the remand process. Upon the City Council's approval of Kayrouz's application, with conditions satisfactory to Kayrouz, the Parties agree to promptly dismiss this matter by the filing of a joint stipulation of dismissal. Should

Kayrouz object to the outcome of the City Council's hearing on remand, this matter shall be returned to the Court's active docket upon the filing of an appropriate motion for same.

4. Unless a joint stipulation of dismissal has been filed with the Court, the Parties shall provide the Court with a written status report of the City Council's remand proceedings within ninety (90) days of this Order.

SO ORDERED

By the Court (Rubin, J.)
/s/ Diane R. Rubin

Attest:

/s/ Deborah J. Patterson
Deborah J. Patterson, Recorder

Dated: February 16, 2023

LAND USE / ZONING
INFORMATION & NOTES[illegible][illegible]

THIS PLAN TO BE UTILIZED FOR SITTING LAYOUT PURPOSES ONLY.

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY.



CIVIL AND CONSULTING ENGINEERING
PROGRAM MANAGER **TRANSITATION SERVICE**
ESTIMABLE MARKET **TRANSITATION SERVICE**

1. URBAN SURVEYING	2. SOUTH NEW ARCADE	3. SOUTH NEW ARCADE	4. CHASSIS/TECH
5. SOUTH NEW ARCADE	6. SOUTH NEW ARCADE	7. SOUTH NEW ARCADE	8. SOUTH NEW ARCADE
9. SOUTH NEW ARCADE	10. SOUTH NEW ARCADE	11. SOUTH NEW ARCADE	12. SOUTH NEW ARCADE
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93. SOUTH NEW ARCADE	94. SOUTH NEW ARCADE	95. SOUTH NEW ARCADE	96. SOUTH NEW ARCADE
97. SOUTH NEW ARCADE	98. SOUTH NEW ARCADE	99. SOUTH NEW ARCADE	100. SOUTH NEW ARCADE

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REVIEWERS			
REV#	DATE	COMMENTS	BY
1	07/10/01	3d RE-TEST COMPLETION	ASST
2	08/01/01	NO FURTHER WORK	ASST
3	09/04/01	POUNDING OF RE-TESTING	ASST
4	09/07/01	CLIMATE MATHS	ASST
5	09/07/01	CLIMATE MATHS	ASST
6	09/07/01	RE-TESTING OF CIVIL	ASST
7		COMPLETION OF CIVIL	ASST
8			ASST
9			ASST
10			ASST
11			ASST
12			ASST
13			ASST
14			ASST

SET

DEVELOPMENT PLANS

**WATKINS
REALTY, LLC**

TOWN OF FAVERHILL
ESSEX COUNTY,
MASSACHUSETTS

J.G. SWERLING

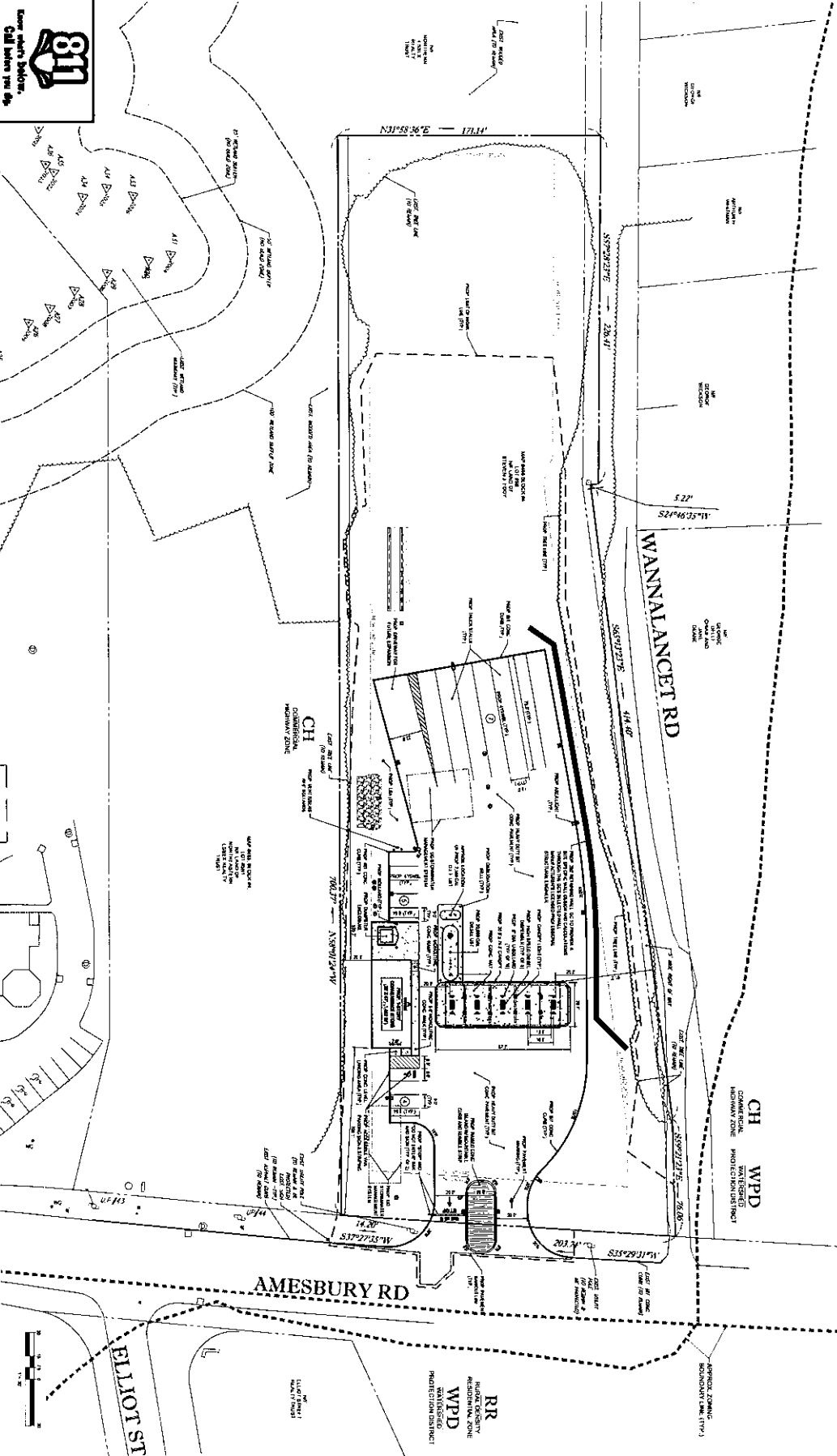
Downloaded from <http://ajph.org/> on September 11, 2012

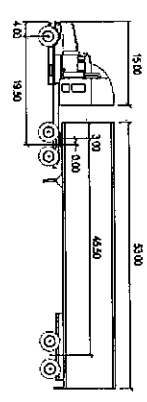
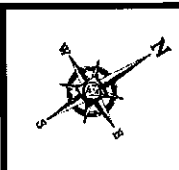
SITE PLAN

C-201

REV. B. BROOKS

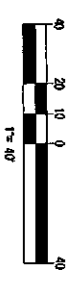
**Know what's below.
Call before you dig.**



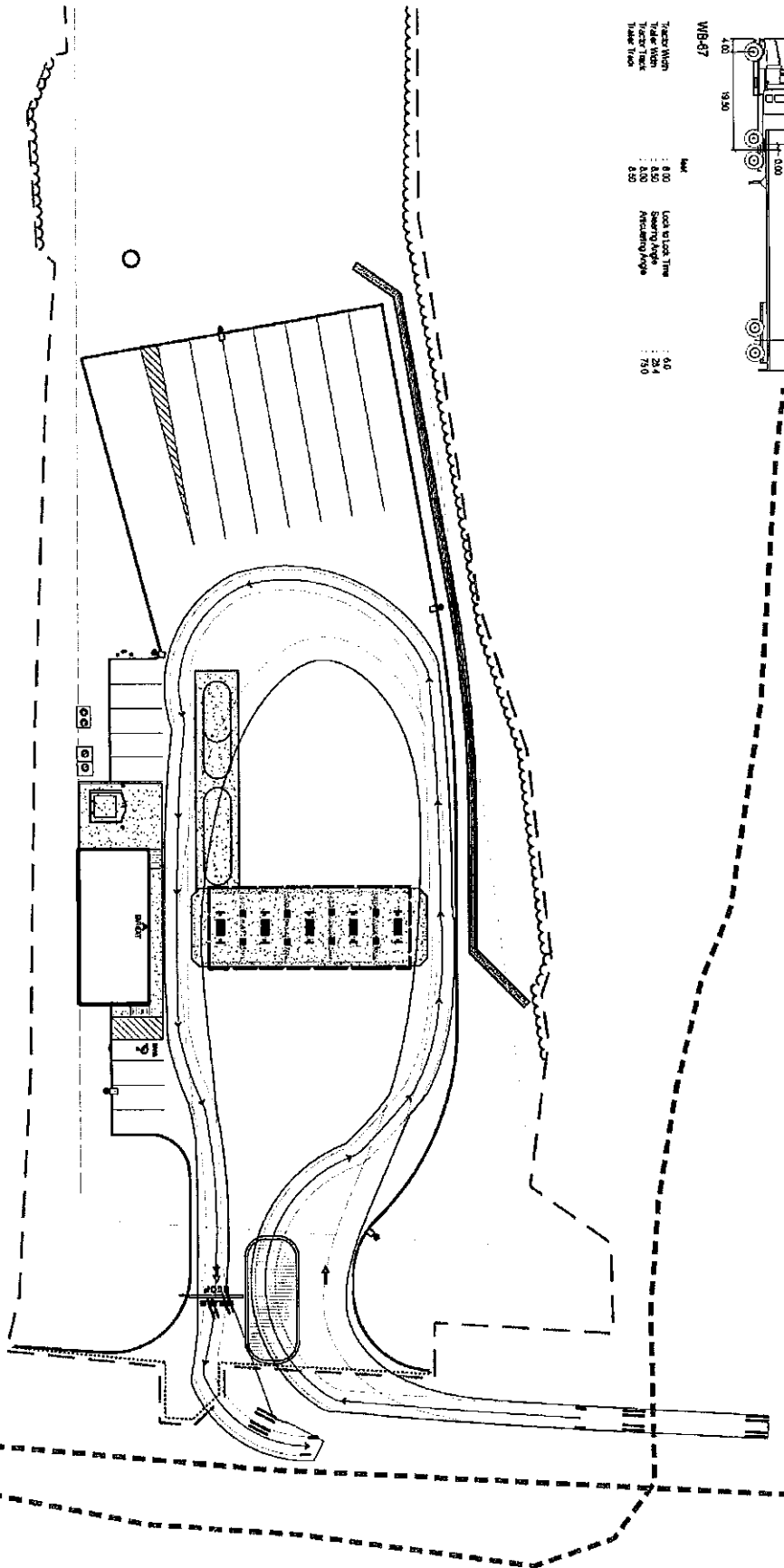


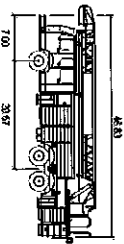
WB-67

Tractor Width	8.00	Lock to Lock Time	6.0
Tractor Height	8.50	Swing Angle	28.4
Tractor Tires	8.50	Rotating Angle	7.50
Tractor Tires	8.50		



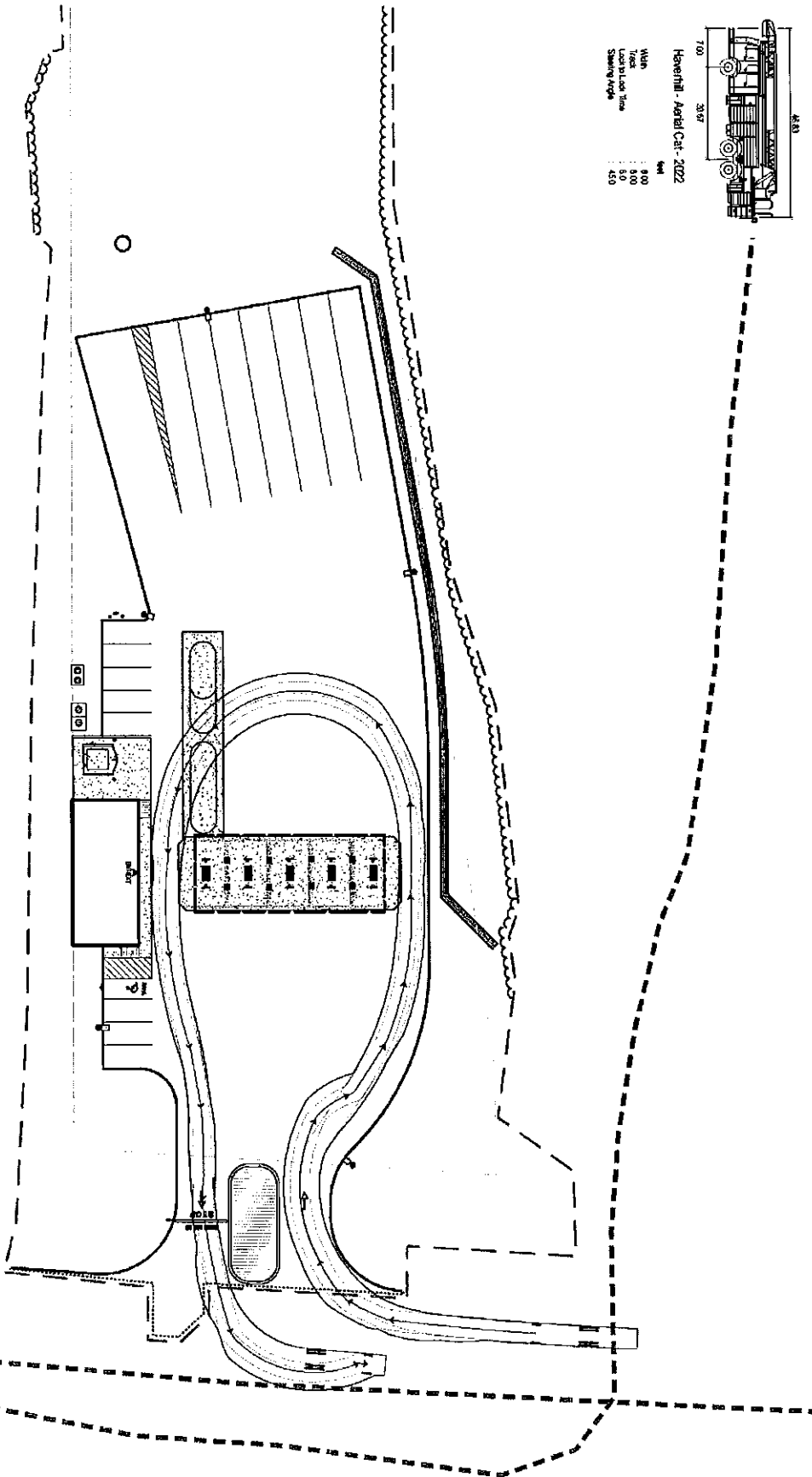
TRUCK TURN
EXHIBIT EX-01
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE 1/8" = 1'-0"
DATE 07/22/94



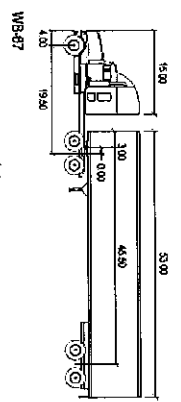


Haverhill - Asbel Cat-2022

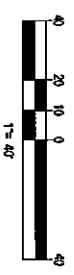
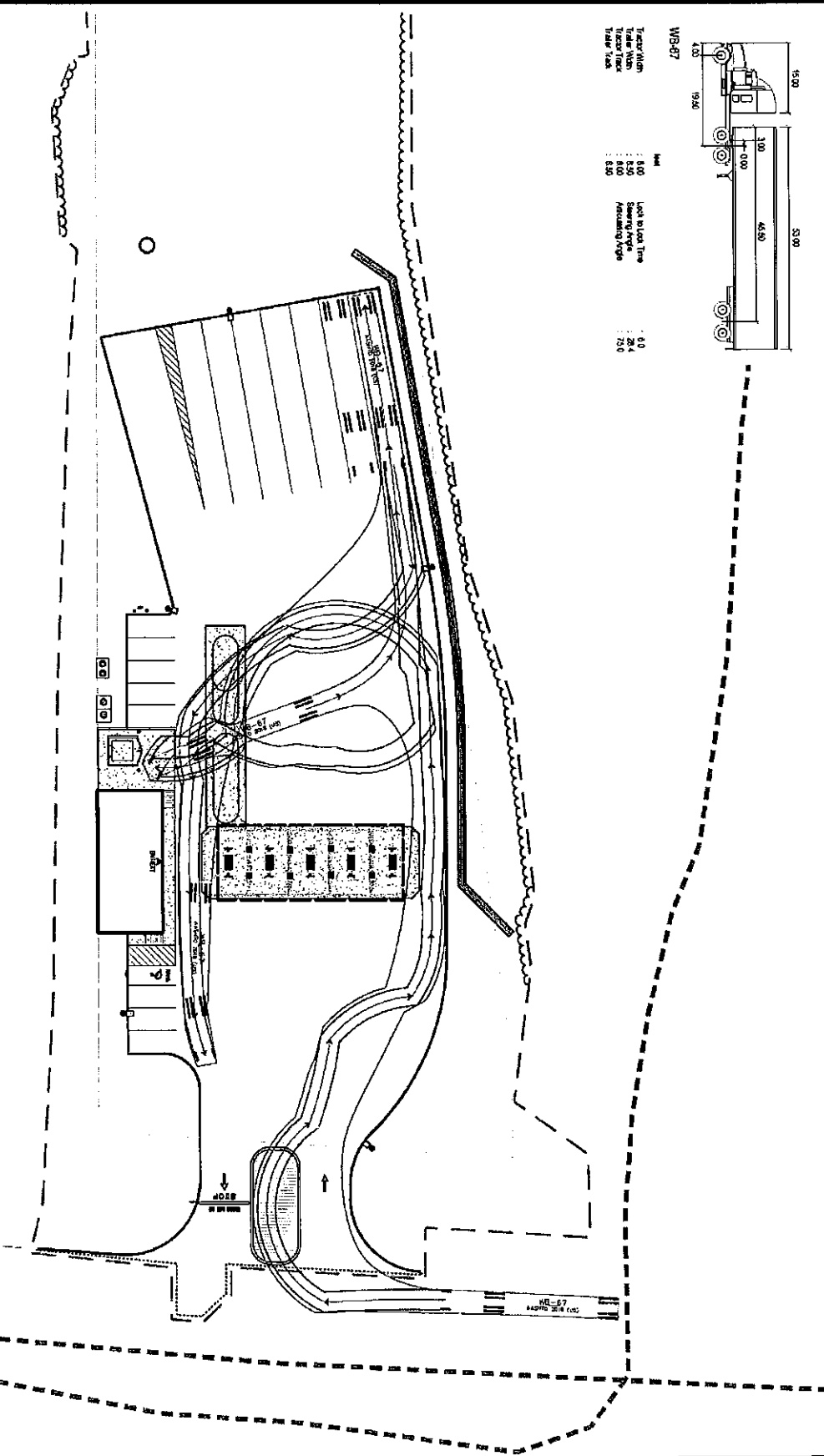
Width	33' 6"
Height	7' 10"
Length	46' 6"
Turning Radius	50'
Turning Angle	45°



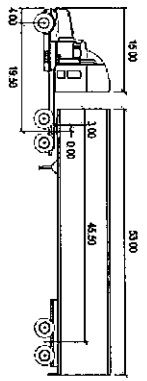
TRUCK TURN
EXHIBIT EX-02
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1/4" = 1'-0"
DATE: 10/22/24



Truck Width	15.00	Lock Block Time	6.0
Truck Height	53.00	Sawing Angle	28.4
Truck Tires	19.50	Rotating Angle	73.0
Truck Tires	4.00		

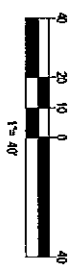


TRUCK TURN
EXHIBIT EX-03
298 ANESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE 1"=40'
DATE 10/22/24

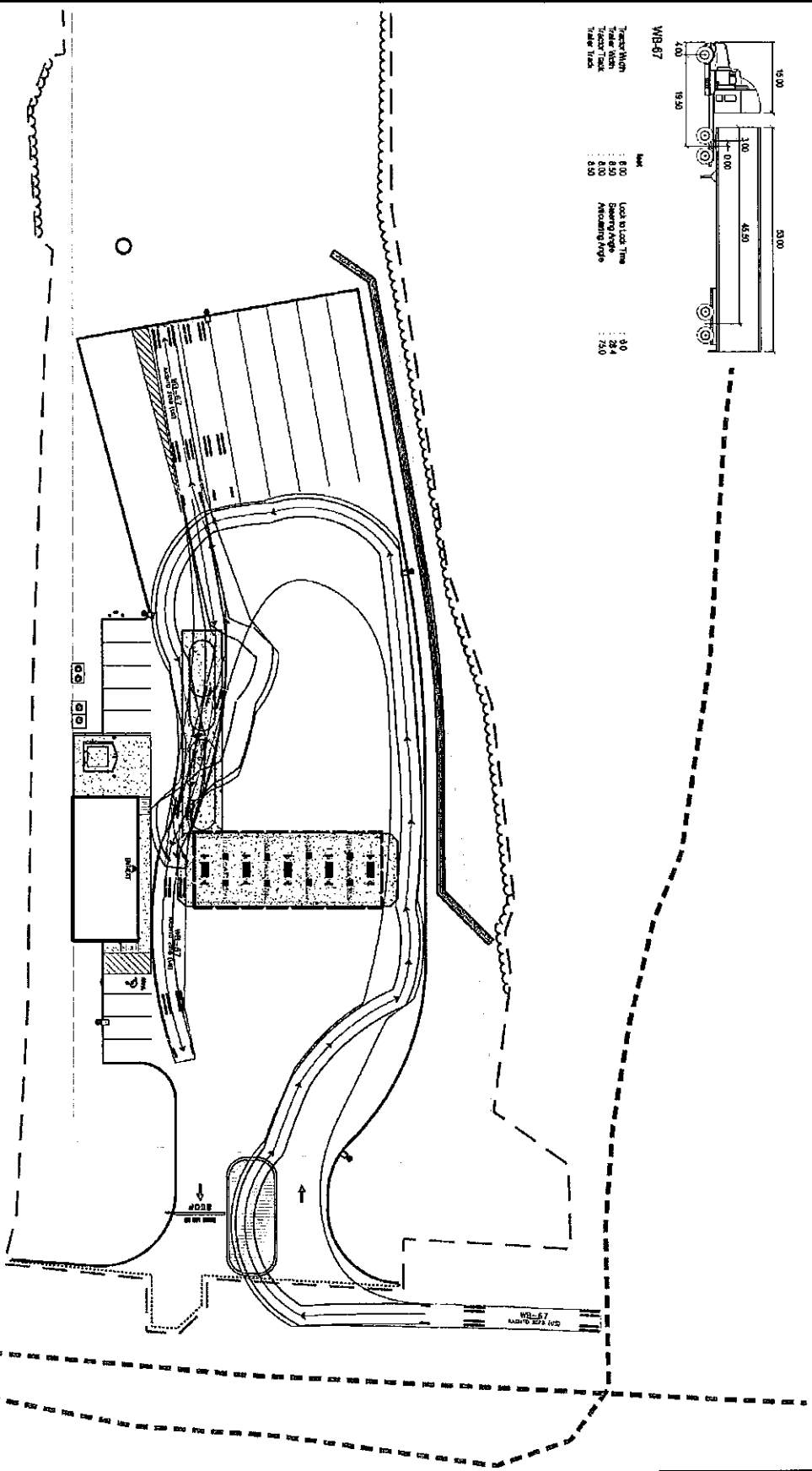


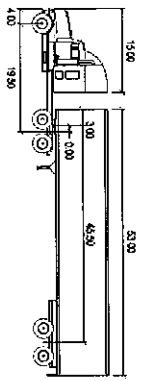
WB-67

Tractor Width	15.00	Load to Load Time	9.0
Tractor Height	19.50	Unloading Rate	25.4
Tractor Weight	8.50	Unloading Type	1.0
Tractor Type	8.50		



TRUCK TURN
EXHIBIT EX-04
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1/8" = 1'-0"
DATE: 10/22/78

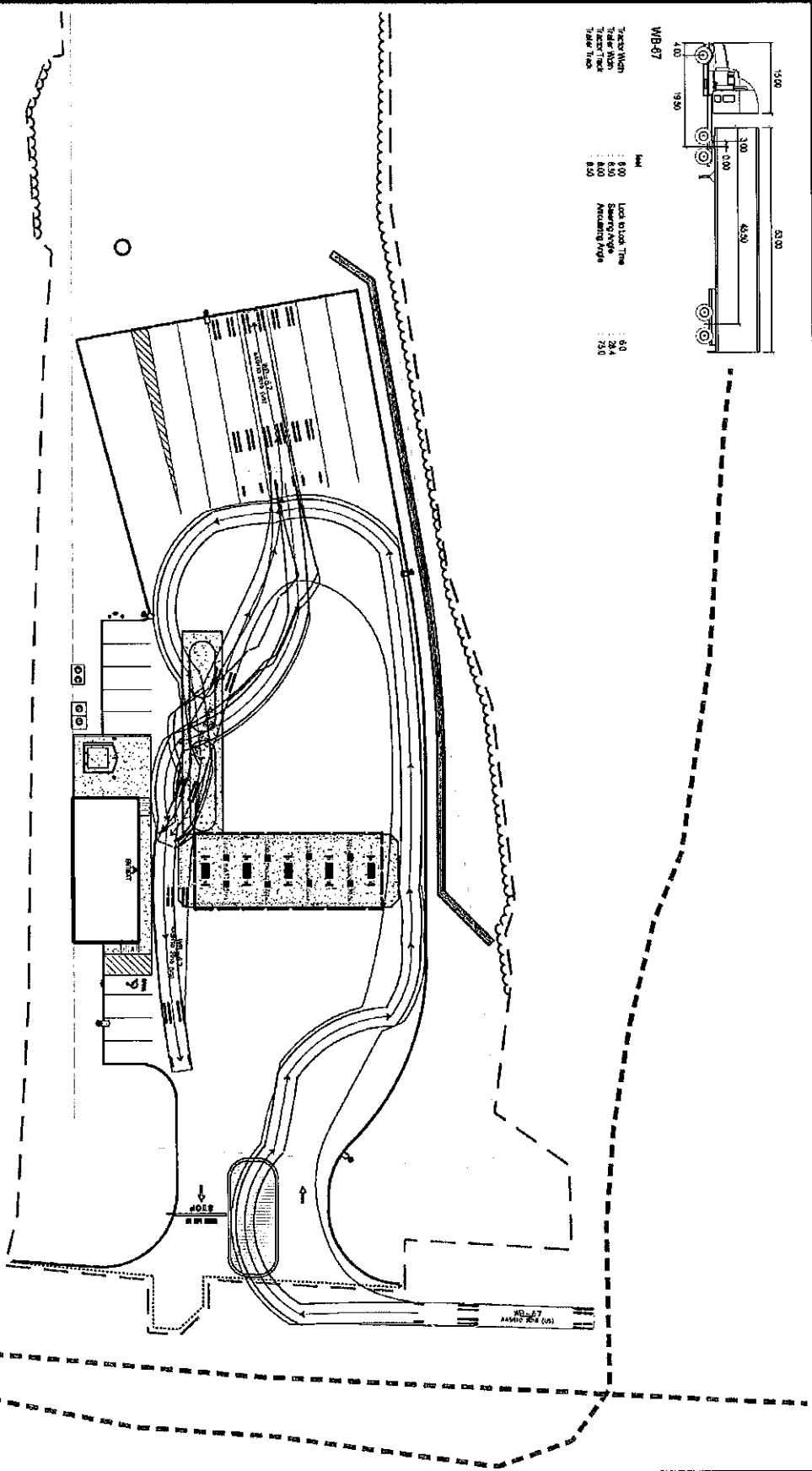


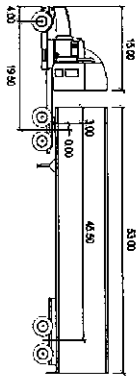


WB-67	Load	Lock Block Time
Tractor Width	8.00	6.00
Trailer Width	8.50	28.4
Trailer Height	8.50	12.0
Trailer Tires	8.50	



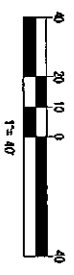
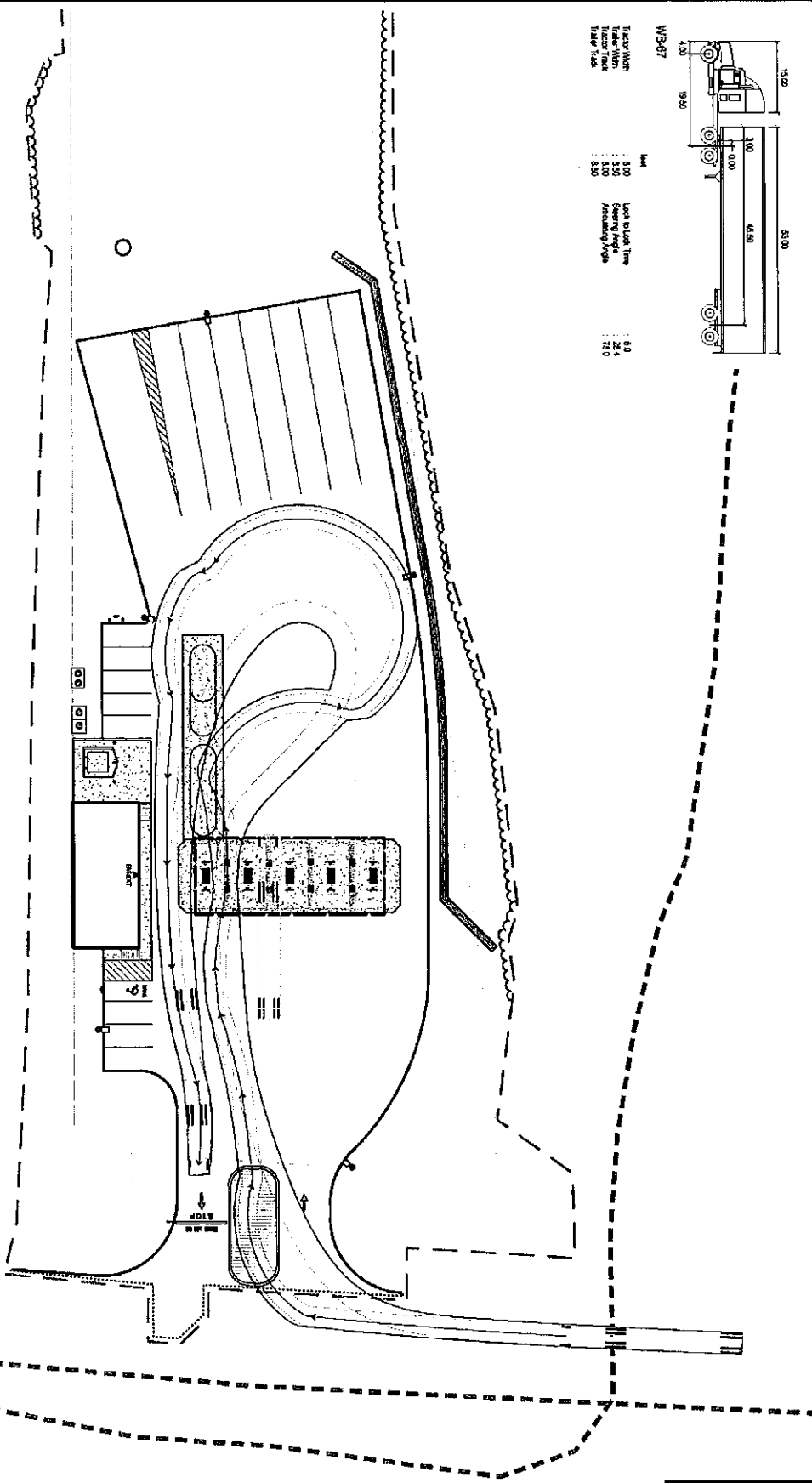
TRUCK TURN
EXHIBIT EX-05
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE 1"=40'
DATE 10/22/84





WB-67

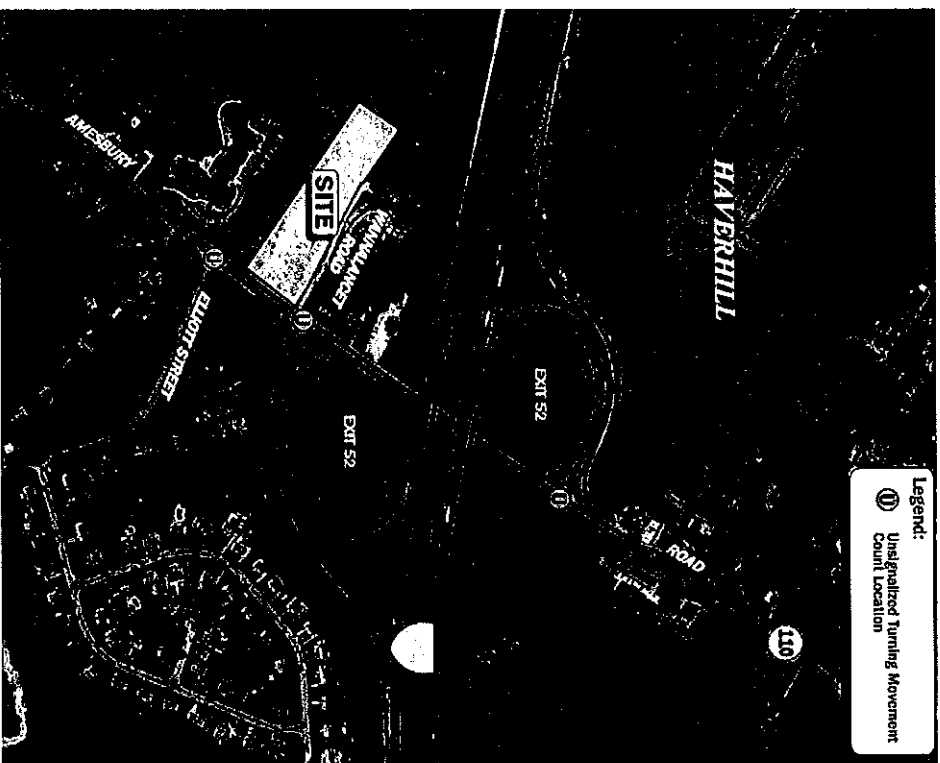
Truck Model	WB-67	Lot to Lot Time	8.0
Truck Width	1.00	Shoring Depth	25.4
Truck Height	15.00	Shoring Width	15.0
Truck Weight	19.50		



TRUCK TURN
EXHIBIT EX-06
298 AMESBURY STREET
HAVERHILL, MASSACHUSETTS
SCALE: 1" = 40'
DATE: 10/22/24

TIA Study Area

298 Amesbury Road



Kayrouz Realty, LLC

Items for Study:

Traffic Volumes
Vehicle Speeds
Crash Data
Sight Distances
Trip Generation
Traffic Operations

- Traffic study reviewed traffic counts and project traffic impacts for weekday morning, weekday evening, and Saturday midday time periods.
- Study is consistent with state and local guidelines for preparation of TIA's.
- Trip generation is based on counts of 2 existing comparable facilities.
- Site meets recommendations for sight distance based on observed speeds of 44 mph.

Project Trip Generation

298 Amesbury Road

Time Period/ Directional Distribution	Vehicle Trips
Weekday Daily	106
Weekday Morning Peak Hour: Entering <u>Exiting</u> Total	12 <u>11</u> 23
Weekday Evening Peak Hour: Entering <u>Exiting</u> Total	6 <u>6</u> 12
Saturday Daily	46
Saturday Midday Peak Hour: Entering <u>Exiting</u> Total	5 <u>5</u> 10

- Not a truck stop: no showers, no sleeping facilities, no groceries/souvenirs/clothing items, etc.
- Vehicle fueling facility, based on counts of comparable sites in Leominster and Bow
- Most trips are made on way to or from primary location (pass-by).
- Approximately 90% of traffic expected from I-495, 5% of traffic from north and south on Amesbury Road.
- Peak-hour traffic increases range between 2 and 10 trips or 0.1 to 1.4% outside of the study area.

Kayrouz Realty, LLC

Traffic Study Conclusions

298 Amesbury Road



- Minimal traffic increases (less than 1.5%)
- Sight distance exceeds design guide recommendations
- No changes in peak-hour LOS or vehicle queues at study area intersections over No Build conditions
- Comments from City Engineer related to curb cut location, MassDOT permitting, and future business park connection were received and responded to August 2024. City Engineer satisfied with responses as noted in Sep. 15, 2025 posting to city website.
- Applicant will agree to a follow-up study to review traffic impacts and provide a copy of MassDOT Access Permit when obtained.

Kayrouz Realty, LLC

428-628-1
MATT, LLC
73 SEVEN SISTER RD
HAVERHILL, MA 01830contract.

428-628-13C
SDSE EAST BROADWAY LLC
73 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-4
WHITMAN ARTHUR H
73 SEVEN SISTER RD
HAVERHILL, MA 01830

441-1-14C
SANCHEZ OSCAR M-ETUX
17 SANDLER TER
HAVERHILL, MA 01832

441-1-17
LABRANCHE VICTOR P
30 SHATTUCK ST
HAVERHILL, MA 01830

465-4-5B
KRE-BSL HUSKY HAVERHILL LLC
PO BOX 92129
SOUTHLAKE, TX 76092

428-628-10
GELINAS PHILLIP P
316 AMESBURY RD
HAVERHILL, MA 01830

428-628-2
35 WANNALANCET ROAD REALTY TR
73 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-5
SDSE EAST BROADWAY LLC
73 SEVEN SISTER RD
HAVERHILL, MA 01830

441-1-14D
KEENAN JAMES B ETUX
255 AMESBURY RD
HAVERHILL, MA 01830

459-2-1
MENNA JOYCE F
26 ELLIOTT STREET
HAVERHILL, MA 01830

465-4-5B1
NORTHERN ESSEX REALTY TRUST
198 SACO AVE
OLD ORCHARD BEACH, ME 04064

428-628-13A
MASS PROP INVES, LLC
P.O. BOX 1115
HAVERHILL, MA 01831

428-628-3
32 WANNALANCET ROAD REALTY TR
73 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-6
SDSE EAST BROADWAY LLC
73 SEVEN SISTER RD
HAVERHILL, MA 01830

441-1-14E
PEPE MICHELE M
25 ELLIOTT ST
HAVERHILL, MA 01830

465-4-5
EDDY STEVEN J
73 SEVEN SISTER RD
HAVERHILL, MA 01830

298
Amesbury rd
Inflammable
CCSB
B2-4

for
Applicant A

A	B	C	D	E	F	G	H	I	J
ParcelID	StreetNum	StreetName	LocCity	Owner1	BillingAddress	City	State	Zip	
1	428-628-1	23 WANNALANCET RD	HAVERHILL	MATT, LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
2	428-628-10	316 AMESBURY RD	HAVERHILL	GELINAS PHILLIP P	316 AMESBURY RD	HAVERHILL	MA	01830	
3	428-628-13A	330 AMESBURY RD	HAVERHILL	MASS PROP INVES, LLC	P.O. BOX 1115	HAVERHILL	MA	01831	
4	428-628-13C	WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
5	428-628-2	35 WANNALANCET RD	HAVERHILL	35 WANNALANCET ROAD REALTY TR	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
6	428-628-3	WANNALANCET RD	HAVERHILL	32 WANNALANCET ROAD REALTY TR	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
7	428-628-4	WANNALANCET RD	HAVERHILL	WHITMAN ARTHUR H	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
8	428-628-5	WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
9	428-628-6	WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
10	441-1-14C	253 AMESBURY RD	HAVERHILL	SANCHEZ OSCAR M-ETUX	17 SANDLER TER	HAVERHILL	MA	01832	
11	441-1-14D	255 AMESBURY RD	HAVERHILL	KEENAN JAMES B-ETUX	255 AMESBURY RD	HAVERHILL	MA	01830	
12	441-1-14E	25 ELLIOTT ST	HAVERHILL	PEPE MICHELE M	25 ELLIOTT ST	HAVERHILL	MA	01830	
13	441-1-17	AMESBURY RD	HAVERHILL	LABRANCHE VICTOR P	30 SHATTUCK ST	HAVERHILL	MA	01830	
14	459-2-1	26 ELLIOTT ST	HAVERHILL	MENNAJOYCE F	26 ELLIOTT STREET	HAVERHILL	MA	01830	
15	465-4-5	298 AMESBURY RD	HAVERHILL	EDDY STEVEN J	73 SEVEN SISTER RD	HAVERHILL	MA	01830	
16	465-4-58	254 AMESBURY RD	HAVERHILL	KRE-BSL HUSKY HAVERHILL LLC	PO BOX 92129	SOUTHLAKE	TX	76092	
17	465-4-581	AMESBURY RD	HAVERHILL	NORTHERN ESSEX REALTY TRUST	198 SACO AVE	OLD ORCHARD BEACH	ME	04064	

BOARD OF ASSESSORS
CITY OF HAVERHILL
4 SUMMER STREET • RM 115
HAVERHILL, MA 01830-5843

Do not copy

Maria Bevilacqua

From: Kaitlin Wright
Sent: Monday, July 7, 2025 2:05 PM
To: hglegals@hgazette.com
Cc: Maria Bevilacqua; Kaitlin Wright
Subject: Legal Ad- 298 Amesbury Rd Inflammable Sept 4 and Sept 11, 2025
Attachments: 298 Amesbury Rd CCSP-22-4 PDF.pdf

Good afternoon,

Please run this legal ad: (1) CCSP-22-4 298 Amesbury Rd Inflammable Storage for two (2) time in the Gazette on September 4 and September 11, 2025 (See attached).

Any questions, please call 978-420-3622. Thank you!

All my best,

Kaitlin

Kaitlin M. Wright, CMC

City Clerk

4 Summer Street, Room 118

Office: (978) 374-2312

Fax: (978) 373-8490

kwright@haverhillma.gov



VERIFY YOUR VOTER STATUS HERE: <https://www.sec.state.ma.us/ovr/>



[Check your Massachusetts Voter Registration Status!](https://www.sec.state.ma.us/ovr/)



Haverhill

City Clerk's Office, Room 118
Phone: 978-374-2312 Fax: 978-373-8490
cityclerk@haverhillma.gov

new
AD

July 23, 2025

PUBLIC HEARING

City Council Chambers, City Hall, Room 202, 4 Summer st

Notice is hereby given that the following application for a license to store, keep, and use INFLAMMABLE LIQUIDS has been made to the City Clerk and the City Council will conduct a hearing for all parties interested, in a hybrid meeting (virtual/in person), on Tuesday, September 23, 2025; at 7:00 PM. This notice is given under the provisions of Chapter 148 of the General Laws - Steven J Eddy; requesting to store 20,000 gallons of diesel fuel and 2,500 gallons of Diesel Exhaust Fluid at proposed fueling station to be stored underground at 298 Amesbury Rd.

(Residents who are interested in commenting on this item can either (1) Attend in person (Council Chambers, Room 202) or (2) Attend remotely using the link provided on the public meeting calendar on the City's website.)

Description of area, maps and plans are on file in the City Clerk's Office.

Advertise: September 4 & September 11, 2025
Haverhill Gazette

Kaitlin M. Wright

Kaitlin M, Wright, CMC
City Clerk



CITY OF HAVERHILL, MASSACHUSETTS

NOTICE OF DECISION

YOU ARE HEREBY NOTIFIED OF THE DECISION OF THE CITY COUNCIL ON THE APPLICATION OF:

STEVEN J. EDDY, OWNER

APPLICANT AND OWNER (IF DIFFERENT)

for property located at:

298 AMESBURY ROAD

SITE LOCATION, ASSESSOR'S MAP, BLOCK, PARCEL NUMBERS

which was filed with the City Clerk on August 9, 2022 as signified by the City Clerk's date stamp.

DATE

The Council, as authorized by Section 15, Chapter 40A of the M.G.L. held a PUBLIC HEARING on:

JULY 26, 2022

DATE OF HEARING (CONTINUANCE IF APPLICABLE)

The Council voted to ~~GRANT~~ / **DENY** said application.

Vote on Special Permit **WITH/WITHOUT** Conditions **FAILED**

	YES	NO	ABSENT
PRESIDENT JORDAN			ABSTAIN
COUNCILLOR MICHITSON		X	
COUNCILLOR BARRETT		X	
COUNCILLOR BEVILACQUA		X	
COUNCILLOR SULLIVAN		X	
COUNCILLOR LEWANDOWSKI		X	
COUNCILLOR MCGONAGLE			ABSTAIN
COUNCILLOR ROGERS			X
COUNCILLOR TOOHEY	X		

See attachments for reasons for decision of the City Council.*

An appeal of this Decision shall be made pursuant to Section 17 of Chapter 40A, MGL, and shall be filed with Superior or District Court within twenty (20) days after the date of filing of the above cited decision with the Office of the City Clerk. Procedural appeals shall be taken in accordance with Section 17 of Chapter 40A, MGL.

August 9, 2022
DATE

Timothy J. Jordan
CITY COUNCIL PRESIDENT

*Record of evidence and detailed record of proceedings of the City Council hearing have been filed with the City Clerk and are incorporated herein by reference and considered a part hereof.

CITY COUNCIL

Timothy J. Jordan

President

John A. Michitson

Vice President

Melinda E. Barrett

Joseph J. Bevilacqua

Thomas J. Sullivan

Melissa J. Lewandowski

Michael S. McGonagle

Catherine P. Rogers

Shaun P. Toohey



CITY HALL, ROOM 204

4 SUMMER STREET

TELEPHONE: 978-374-2328

FACSIMILE: 978-374-2329

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CITYCNCL@CITYOFHAVERHILL.COM

CITY OF HAVERHILL

HAVERHILL, MASSACHUSETTS 01830-5843

APPLICATION FOR SPECIAL PERMIT

DOCUMENT 57, CCSP-22-4

STEVEN J. EDDY, OWNER

298 AMESBURY ROAD

JULY 26, 2022

DOC. 57 – SUMMARY MINUTES OF A SPECIAL PERMIT IN-PERSON AND HYBRID HEARING HELD ON JULY 26, 2022 FOR APPLICATION FROM STEVEN J. EDDY, OWNER, FOR CCSP-22-4 FOR INFLAMMABLE LICENSE FOR DIESEL FUELING STATION PROPOSED AT 298 AMESBURY ROAD

SUBJECT: Document 57; CCSP-22-4: Application from Steven J. Eddy, Owner, for inflammable license for diesel fueling station proposed at 298 Amesbury Road – 32,000 gallons of diesel fuel to be stored underground.

Present: President Timothy Jordan, Councillor Joseph Bevilacqua, Councillor Thomas Sullivan, Councillor John Michitson, Councillor Melissa Lewandowski, Councillor Michael McGonagle, and Councillor Shaun Toohey.

Attending Remotely: Councillor Melinda Barrett

Absent: Councillor Catherine Rogers.

Assistant City Clerk Kaitlyn Wright: Document 57; CCSP-22-4: Application for Inflammable license from Steven J. Eddy for the diesel fueling station proposed at 298 Amesbury Road – 32,000 gallons of diesel fuel to be stored underground. *Comments from City Departments are included. Related communication from William Pillsbury, Economic Development and Planning Director.*

President Jordan announced after speaking with City Solicitor Cox, he will be abstaining from the hearing due to his role on the Greater Haverhill Foundation Executive Committee. Council Vice President Michitson will run the hearing.

Councillor McGonagle was also advised to abstain from the hearing due to his ownership of an abutting property.

President Michitson opened the special permit hearing.

Michael Migliori, offices at 18 Essex Street Haverhill, I represent the applicant Steven Eddy in connection with the license to store flammables at 298 Amesbury Road. Mr. Eddy is here this evening

CITY COUNCIL**Timothy J. Jordan***President***John A. Michitson***Vice President***Melinda E. Barrett****Joseph J. Bevilacqua****Thomas J. Sullivan****Melissa J. Lewandowski****Michael S. McGonagle****Catherine P. Rogers****Shaun P. Toohey**

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and available. My hope is to extricate this license request from a rabbit hole it seems to have fallen in. Request for a flammable storage license in Haverhill has always been more of a ministerial act by the Council. Deference has always been given to the Fire Department which is tasked by Mass General Laws to endorse the application with their approval or disapproval. That's the language from the statute and the application. The application before you is signed by Eric Tarpy as head of the Fire Department, and it states that he endorses the application with his approval as long as all local, state, and federal regulations are met and constructed and designed with sound engineering practices. Which we have done. We have met all the requirements locally, state wise and federal wise and therefore the license should be approved by the Council. It is my opinion that there exists no legal reason that allows the Council not to approve the license application.

I would like to go back in time and discuss with the Council what has gone on prior to this evening and prior to the application for the license. The applicant in November of 2019 started the development review process also referred to as site plan approval process with the City for the construction of a diesel fueling facility and a convenience store at the 298 Amesbury Road location. The site is zoned for this use and therefore as long as it's built in compliance with local zoning ordinances it is allowed by right. Some 19-months of reviews were conducted by all city departments in connection with the project. We're talking about building inspector, conservation, engineering, fire, health department, police, plumbing, stormwater, wastewater, water, building...every department in the building. All the departments I just cited, signed off and approved the project as designed and at a great expense I might add. The engineering and site work expenses are absorbent. The applicant has actually paid for the building permit. Some \$18,000 has been paid to the City of Haverhill, check has cleared and can't do that without having received all the required department approvals after an almost two years in depth review by the city. The final step by the applicant is to apply for the storage tank license. This is where things fell off the rails and went down that rabbit hole I mentioned earlier. For reasons still not clear to me, the applicant was told the process for the license for storage tanks was to be submitted to the City's online portal as a request for a Special Permit to get the license. This was clearly a mistake, this is not a Special Permit, it's a license similar to hawk and peddler license or a hot dog cart license or any other licenses the City Council issues routinely. Simultaneously with our application for the license, the Planning Department was working on creating a new industrial park on land abutting this parcel. Mr. Pillsbury presented that proposal to the Council fairly recently. You are all familiar with it. The Council approved the new zoning district and cleared the way for that land to be developed into the new industrial park. With that proposal, Mr. Pillsbury, as you are aware, is planning on getting an in-depth traffic study performed with the intent on having traffic improvements and lights in the area servicing the new industrial park. The land for the proposed industrial park is owned, as you are aware, by a few different owners, Mr. Eddy being one of those owners. The City through the Haverhill Foundation was negotiating with those owners to buy their

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parcels. Just for the record, I am not involved in any of that piece. Mr. Pillsbury asked to meet with Mr. Eddy, myself, our engineer, and the developer back on May 11th to discuss our project and the new industrial park project because our, Mr. Eddy's parcel, about the proposed park. We had a very good meeting with Mr. Pillsbury and one of the things discussed was his request for us to change our ingress and egress from Amesbury Road if or when the new access road from the industrial park was built. We all agreed that made perfect sense, we had no objection to that. It being clear by everybody in the room that day, that until that road was put in our access would have to be Amesbury Road as per the approved site plans that again every city department signed off. Mr. Pillsbury also encouraged Mr. Eddy to continue to discuss the sale of his land to the Haverhill Foundation with the hopes of it having it incorporated with the proposed park. Mr. Eddy agreed, the engineers all agreed, that all made perfect sense as well for his land to become part of the park and agreed to continue to work with the Haverhill Foundation and we left. The original hearing date, I believe for this license, went back to April. We were asked by Mr. Pillsbury to continue the hearing while he continued to work on matters that really didn't involve us, but more related to the proposed new park. We agreed to the continuances. Mr. Eddy continued to try and work with the Haverhill Foundation regarding their purchase of his property. Apparently, there is a difference of opinion as to the value of his land between the buyer and the seller. Apparently, there is not much headway being made there. Suddenly at the last minute, we received this push back in the last couple of days. Councillors received some correspondence tonight. Councillors, as I stated earlier, I believe you have no legal justification to disapprove the license request. I am not sure what is going on behind the scenes, but I think something is. I am asking you to do the right thing. There is no legal position to deny this permit. With that I ask that you approve the permit as submitted.

President Michitson asked if anyone would like to speak in favor? No one spoke.

President Michitson asked if anyone would like to speak in opposition?

Joyce Menna, 26 Elliott Street, Haverhill. I am an abutter, and I am completely against this. These underground storage tanks, as you may know, are the biggest threat to the water supply and the proximity to the Kenoza Reservoir, the wetlands, that whole area it's just a really bad idea. They are also highly flammable; they release chemicals into the air which can cause cancer and there is actually no safe level of exposure to these chemicals if they are released. I mean we all know the risk of underground leaking of these tanks. In case you don't know, one gallon of petroleum can contaminate 1 million gallons of water. Which is a very scary thing. Besides which, the traffic issue out there is horrendous. We are having accidents all the time at the intersection of Elliott and Amesbury Road and also coming off the exit ramp of 495. I cannot imagine how trucks, big giant trucks, are going to impact this area. We have Northern Essex Community College, it's just a very difficult traffic area. I think the whole thing is a very bad idea.

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**President Michitson asked if anyone else opposed would like to speak or online? No one spoke.
President Michitson closed the hearing.**

Motion by Councillor Sullivan to move for passage with all the recommendations and conditions of the city departments, second by Councillor Toohey.

Michael Migliori: Just to be clear, I am not sure which conditions you are talking about because some of the correspondence calls for certain things, other correspondence calls for different things and conflict with what...for example, the City Engineer said access on Amesbury Road is okay until such time as the part of the road serving the industrial park is built. Which we agree with and that was our agreement all along. Mr. Pillsbury was in agreement with that position until Friday afternoon when he submitted his letter. Seems to have taken a different position. You need to understand if there is a condition placed on this that access will only be allowed when the industrial park road is built, this project can't go forward. I think we need to be clear on what exactly it is that you are voting on. If the contingency is in your vote that there won't be any ingress or egress on Amesbury Road, the only egress is going to be on some fictional road that doesn't exist and may not exist. I think that if that industrial park can somehow be fast-tracked, you're still talking years away in reality for a road. We need some clarification for everybody's protection.

Councillor Sullivan: I would like to clarify, we want to say we will *move for passage with the condition that the project would not move forward until there is an access road on Elliott Street*, I would support that motion. That would clarify that matter because I don't want to see access from Amesbury Road ever for this particular purpose. That would be my motion.

President Michitson asked if there was a second.

Councillor Lewandowski: Second

Councillor Lewandowski: Attorney Migliori, I saw in here that you had indicated that you were continuing to work with the city regarding proposed infrastructure improvements in the area. Can you explain what you have done?

Attorney Migliori: This all goes to the new industrial park that came upon us just within two or three months. We didn't have any knowledge about it and quite honestly, I don't know where that is at. As I said there are few land owners out there. I don't know if property has been sold, bought or purchase and sales agreements; I have no idea I am not involved in that. Our interaction with the city has been agreeing

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to relocate the ingress and egress. Mr. Eddy has agreed to work with the city, even if his land doesn't become part of the what the Haverhill Foundation buys, if they buy anything, to work with them to provide additional infrastructure improvements. The engineers supposedly have been meeting. We have instructed our engineers to meet with whomever the city is using. And again, I am not involved in those aspects. We have agreed to relocate the ingress and egress if and when there is a new road.

Councillor Lewandowski: The issue that I am getting at is there is going to be a potential impact on multiple levels there that is speculative to a certain degree because we don't know about that, those things that you are talking about.

Attorney Migliori: Nobody does.

Councillor Lewandowski: Right. But there also hasn't been a traffic study done in that area. There hasn't been a referral to the Board of Health to come up with some regulations which is very typical when licenses like these are sought. I feel like, for me, those things have to be vetted before it would be a vote.

Attorney Migliori: The Board of Health was involved in the site plan process.

Councillor Lewandowski: Involved but at the beginning. This is going to be storage for years.

Attorney Migliori: That is where the details are Councillor Lewandowski. The details are worked out in the site plan and review process. That's where you get into the weeds. If you saw the amount of engineering work that has been submitted in the 19-months it's taken for all the city departments to review it. To say right now we need more department review, I don't think is accurate. They have had 19-months and they have all looked at it in great detail.

Councillor Lewandowski: Right, but the details of inspection going forward on a significant amount of diesel fuel that's being stored underground has not been vetted.

Attorney Migliori: They're all in place.

Councillor Lewandowski: There are no regulations on our local Board of Health, absolutely not.

Attorney Migliori: The city has Mass General Laws and Federal Laws on that.

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Councillor Lewandowski: Yes they do, 148, but it also specifically in the Mass General Laws says “the Marshall shall establish rules and regulations providing for the inspection of tanks or containers on an annual basis or such other frequency as determined by the Marshall” and that is usually done in concurrence with some type of local promulgation by the Board of Health regarding with what that’s going to look like. Because otherwise you are just leaving it to the state, maybe on an annual basis, maybe not. Those are the things that concern me.

Attorney Migliori: It is done here annually by the Fire Department Fire Marshall. They inspect, they have to, every underground storage tank.

Councillor Lewandowski: There are a lot more details that go into inspecting. As you know, the Federal Law has changed recently regarding regulations. And the Mass DEP is usually involved, correct? That is my understanding.

Attorney Migliori: Um, the Commonwealth of Mass is involved in the final approval.

Councillor Lewandowski: Well the Mass DEP rules were rescinded in 2015, I believe, and they incorporated recent federal requirements. I do not know if those are in accordance with our Marshall does on an annual basis. I don’t know the answers to those questions. Maybe they are. But that is what I am saying. Without answers to those questions, I don’t have more information to give you for a vote. Thank you.

Councillor Barrett: Earlier this was postponed because I thought the applicant was doing a traffic study for the area, the 110 area Elliot Street. Is that not the case?

Attorney Migliori: That is not the case. The city is doing a far more detailed and in-depth traffic study as a result of the proposed industrial park. It didn’t make sense.

Councillor Barrett: So, you guys just forgo with that and are waiting on the city’s study?

Attorney Migliori: Again, here’s where things got a little odd in my opinion. Police Department was one of those departments that was involved in the 19-month site plan review process and signed off on it without any conditions. It wasn’t until very recently when the license permit for storage tanks was requested that the Police Department thought a traffic study would be a good idea. I have never seen a traffic study requested with a request for a storage, request for a license for storage tank. When projects are developed, I’ve seen many requests for traffic studies. That was, if there was reason to have a traffic

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study, it should have been during that 19-month site review process and during that process nobody seemed to think a traffic study made sense.

Councillor Barrett: I mean didn't we request a traffic study from the marijuana store that opened two stores down earlier?

Attorney Migliori: I am not sure, you may have.

Councillor Barrett: It just seems like generally we do.

Attorney Migliori: I don't know I wasn't involved with that.

Councillor Barrett: Thank you.

President Michitson: Madam Clerk please call the roll.

Assistant City Clerk Wright: Councillor Barrett-no, Councillor Bevilacqua-no, Councillor Sullivan-no, Councillor Lewandowski-no, Councillor Toohey-yes, President Michitson-no, 1 Yea, 6 Nays, 2 Abstain (Jordan, McGonagle) 1 Absent (Rogers)

President Michitson: Failed.

Respectfully submitted,

Laurie A. Brown
Administrative Assistant

August 9, 2022

CITY COUNCIL

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**REASON FOR VOTE
DOCUMENT 57, CCSP-22-4
STEVEN J. EDDY, OWNER
298 AMESBURY ROAD
JULY 26, 2022**

President Jordan: I abstained due to my role on the Executive Committee of the Greater Haverhill Foundation.

Councillor Michitson: I voted against because the requirements were not met.

Councillor Barrett: I voted against because the access and traffic issue was not finalized or completed to a necessary stage or conclusion at this application stage.

Councillor Bevilacqua: I voted no to the application. The application did not include a traffic study for road conditions with the additional entrances and exits of proposed fueling station.

Councillor Sullivan: I voted against the special license because I do not believe it is in the best interests of the city, and especially the rural neighborhood including an assisted living residence abutter to allow a diesel gas station. This would result in a negative impact to the neighborhood.

Councillor Lewandowski: I voted against because the use will have an adverse impact on the neighborhood and does not conform with the surrounding neighborhood setting.

Councillor McGonagle: Abstain.

Councillor Rogers: Absent.

Councillor Toohey: I voted in favor because the project an allowed use according to zoning.

428-628-1
MATT, LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-10
GELINAS PHILLIP P
316 AMESBURY RD
HAVERHILL, MA 01830

428-628-13A
MASS PROP INVES, LLC
P.O. BOX 1115
HAVERHILL, MA 01831

428-628-13C
SDSE EAST BROADWAY LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-2
35 WANNALANCET ROAD REALTY TR
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-3
32 WANNALANCET ROAD REALTY TR
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-4
WHITMAN ARTHUR H
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-5
SDSE EAST BROADWAY LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-6
SDSE EAST BROADWAY LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

441-1-14D
KEENAN JAMES B ETUX
255 AMESBURY RD
HAVERHILL, MA 01830

441-1-17
LABRANCHE VICTOR P
30 SHATTUCK ST
HAVERHILL, MA 01830

459-2-1
MENNA JOYCE F
26 ELLIOTT STREET
HAVERHILL, MA 01830

465-4-5
EDDY STEVEN J
71 SEVEN SISTER RD
HAVERHILL, MA 01830

465-4-5B
KRE-BSL HUSKY HAVERHILL LLC
PO BOX 92129
SOUTHLAKE, TX 76092

465-4-5B1
NORTHERN ESSEX REALTY TRUST
198 SACO AVE
OLD ORCHARD BEACH, ME 04064

Atty Migliori
18 Essex St
Haverhill, MA
01832

Lucien M. DiStefano
Bohler Engineering
352 Turnpike Rd
Southborough, MA
01772

Lauren Sagasser
42 Hancock Rd
Franklin, MA 02038

Johnny Kayrouz
16 East Main St
Westborough, MA 01581

(notice of
decession
mailed 8-15-22)

Joyce Menna
26 Elliott St.
Haverhill, MA 01830

LP-gas (Complete this section for the storage of LP-gas or propane)

Indicate the maximum quantity of LP-gas to be stored and the sizes and capacities of all storage containers.
(See 527 CMR 1.00 Table 1.12.8.50)

- ❖ Maximum quantity (in gallons) of LP-gas to be stored in aboveground containers: _____

List sizes and capacities of all aboveground containers used for storage: _____

- ❖ Maximum quantity (in gallons) of LP-gas to be stored in underground containers: _____

List sizes and capacities of all underground containers used for storage: _____

Total aggregate quantity of all LP-gas to be stored: _____

Fireworks (Complete this section for the storage of fireworks)

Indicate classes of fireworks to be stored and maximum quantity of each class. (See 527 CMR 1.00 Table 1.12.8.50)

- ❖ Maximum amount (in pounds) of Class 1.3G: _____ Type/class of magazine used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.4G: _____ Type/class of magazine used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.4: _____ Type/class of magazine used for storage: _____

Total aggregate quantity of all classes of fireworks to be stored: _____

Explosives (Complete this section for the storage of explosives)

Indicate classes of explosive to be stored and maximum quantity of each class. (See 527 CMR 1.00 Table 1.12.8.50)

- ❖ Maximum amount (in pounds) of Class 1.1: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.2: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.3: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.4: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.5: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.6: _____ Number of magazines used for storage: _____

I, Johnny Kayrouz, hereby attest that I am authorized to make this application. I acknowledge that the information contained herein is accurate and complete to the best of my knowledge and belief. I acknowledge that all materials stored pursuant to any license granted hereunder must be stored or kept in accordance with all applicable laws, codes, rules and regulations, including but not limited to Massachusetts Chapter 148, and the Massachusetts Fire Code (527 CMR 1.00). I further acknowledge that the storage of any material specified in any license granted hereunder may not exceed the maximum quantity specified by the license.

Signature J. Kayrouz Date 03/24/2022 Name Johnny Kayrouz

Fire Department Use Only

I, ERIC M. TAPY, Head of the HAVERHILL Fire Department endorse this application with my

☒ Approval ☐ Disapproval

DK EMT
Signature of Head of the Fire Department

3/28/22
Date

Recommendations:

Approved as long as all State and Federal regulations, local ordinances are met, Construct and design with Sound Engineering Practices

51

KAREN L. FIORELLO
kfiorello@fimilaw.com

FIORELLO & MIGLIORI
ATTORNEYS AT LAW

FIREHOUSE CONDOMINIUMS
18 ESSEX STREET
HAVERHILL, MASSACHUSETTS 01832
TEL 978/373-3003 FAX 978/373-3066

MICHAEL J. MIGLIORI
mmigliori@fimilaw.com

May 19, 2022

Haverhill City Council
4 Summer St, Room 204
Haverhill, MA 01830

Attn: Linda Koutoulas, City Clerk

Re: Hearing Continuance Request
Flammable Storage License Application
298 Amesbury Road

Dear President Jordan,

Please be advised that I am requesting a continuance of the hearing scheduled for May 24, 2022, on the above matter until **June 21, 2022**.

We are continuing to work with the City regarding proposed infrastructure improvements in the area and the continuance would be helpful in that regard.

Sincerely yours,

Michael J. Migliori

MJM/dma

cc: Planning Director Pillsbury

IN CITY COUNCIL: May 24 2022
CONTINUED TO JUNE 21 2022

Attest:

City Clerk

IN CITY COUNCIL: July 26 2022
NOT PASSED

Attest:

City Clerk

IN CITY COUNCIL: June 21 2022
CONTINUED TO July 26 2022

Attest:

City Clerk

HAU CITY CLERK MAY 19 2022 09:08:37

57

FIORIELLO & MIGLIORI
ATTORNEYS AT LAW

KAREN L. FIORELLO
kfiorello@fimilaw.com

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18 ESSEX STREET
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TEL 978/373-3003 FAX 978/373-3066

MICHAEL J. MIGLIORI
mmigliori@fimilaw.com

June 16, 2022

Haverhill City Council
4 Summer St, Room 204
Haverhill, MA 01830

Attn: Linda Koutoulas, City Clerk

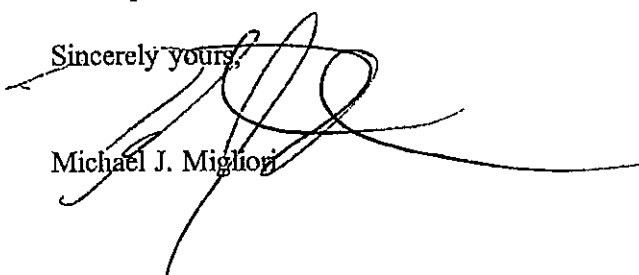
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Michael J. Migliori

MJM/dma

cc: Planning Director Pillsbury

copy

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MICHAEL J. MIGLIORI
mmigliori@fimilaw.com

May 19, 2022

HAV CITY CLERK MAY 19 2022 PM 8:37

Haverhill City Council
4 Summer St, Room 204
Haverhill, MA 01830

Attn: Linda Koutoulas, City Clerk

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Sincerely yours,

Michael J. Migliori

MJM/dma

cc: Planning Director Pillsbury

IN CITY COUNCIL: May 24 2022
CONTINUED TO JUNE 21 2022

Attest:

City Clerk

**Michael Picard**

Remove Comment • Mar 29, 2022 at 8:08 am

The
Fire Department has signed the application for the License to store a
Class II
Combustible Liquid. Once through Council the Fire Department will review
submitted documents regarding the diesel distribution pump layout and
suppression system before it is sent to the MA State Fire Marshal.

This step was assigned to Michael Picard - Mar 28, 2022 at 3:07 pm

Michael Picard approved this step - Mar 29, 2022 at 8:08 am



City of Haverhill, MA

04/21/2022

CCSP-22-4

Fire2 Department Review

City Council Special Permit

Status: Complete

Became Active: 03/28/2022

Assignee: Michael Picard

Completed: 03/29/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Michael Picard, Mar 29, 2022 at 8:08am

The Fire Department has signed the application for the License to store a Class II Combustible Liquid. Once through Council the Fire Department will review submitted documents regarding the diesel distribution pump layout and suppression system before it is sent to the MA State Fire Marshal.



Related communication
Haverhill

Economic Development and Planning
Phone: 978-374-2330 Fax: 978-374-2315
wpillsbury@cityofhaverhill.com

10.2

July 22, 2022

MEMO TO: City Council President Timothy Jordan and Members of the Haverhill City Council
FROM: William Pillsbury Economic Development and Planning Director

RE: Traffic Study to create new Business Park

I am aware that you have the request for a special permit (CCSP-22-4) for underground tank installation back on the agenda for the meeting of July 26th. Please be advised that the City will be undertaking a comprehensive traffic study for the new intersection to be created for the business park at the intersection with Elliot street.

We have spoken to the applicant for the tank permit and informed them that they will not be able to access the site directly from route 110 but their access will come from the new access road. Their site plan approval is on hold until they submit revised plans showing access off of the new road. They have indicated that their engineer will cooperate with our study and revise the access in compliance with the study and roadway design.

We are commencing this much more comprehensive traffic study immediately and as such I have advised the Police chief and he concurs that a second study by the applicant will not be necessary as all of the necessary analysis will be done under it.

Should the tank project be approved, its access of the new road instead of directly off route 110 will result in a safer traffic situation than the original proposal.

Thank you.



City of Haverhill, MA

04/21/2022

CCSP-22-4

Wastewater Review

City Council Special Permit

Status: Complete**Assignee:** Robert Ward**Became Active:** 03/28/2022**Completed:** 03/31/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Robert Ward, Mar 31, 2022 at 3:54pm

The applicant is seeking a Flammable Storage License. The Wastewater Division has no relevant comment.



City of Haverhill, MA

04/21/2022

CCSP-22-4

Water Department Review

City Council Special Permit

Status: Complete

Assignee: Robert Ward

Became Active: 03/28/2022

Completed: 03/31/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Robert Ward, Mar 31, 2022 at 3:54pm

The applicant is seeking a Flammable Storage License. The Water Division has no relevant comment.



City of Haverhill, MA

04/21/2022

CCSP-22-4

Water Supply Review

City Council Special Permit

Status: Complete

Assignee: Robert Ward

Became Active: 03/28/2022

Completed: 03/31/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Robert Ward, Mar 31, 2022 at 3:56pm

The location is not within the Water Supply Protection Overlay District.



City of Haverhill, MA

04/21/2022

CCSP-22-4

Conservation Department Review

City Council Special Permit

Status: Complete

Assignee: Robert Moore

Became Active: 03/28/2022

Completed: 03/31/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Robert Moore, Mar 31, 2022 at 7:21pm

N/A. Project located outside Conservation Commission jurisdiction.



City of Haverhill, MA

04/21/2022

CCSP-22-4

Storm Water Review

City Council Special Permit

Status: Complete**Assignee:** Robert Moore**Became Active:** 03/28/2022**Completed:** 03/31/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Robert Moore, Mar 31, 2022 at 7:22pm

N/A. Stormwater management system designed to contain & treat runoff on-site. No discharge to MS4.



City of Haverhill, MA

04/21/2022

CCSP-22-4

Building Inspector Approval for Agenda

City Council Special Permit

Status: Complete

Became Active: 03/28/2022

Assignee: Tom Bridgewater

Completed: 04/19/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Tom Bridgewater, Apr 19, 2022 at 10:58am

a foundation permit is being held up from being issued until this application is approved.



City of Haverhill, MA

04/21/2022

CCSP-22-4

Police Department Review

City Council Special Permit

Status: On Hold**Assignee:** Kevin Lynch**Became Active:** 03/28/2022**Completed:** 04/20/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

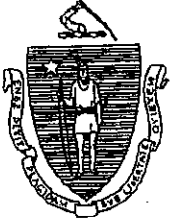
Comments

Kevin Lynch, Apr 19, 2022 at 11:33am

The Police Department has signed the application for the License to store a Class II Combustible Liquid. The Police Department is still looking for a traffic study to determine the impact on the roadway and the local residents for final approval.

CC Sp 22-4 Hearing April 26, 2022

copy

FP-002A
(Rev. 1.2018)

The Commonwealth of Massachusetts
City/Town of Haverhill

Application For License

Massachusetts General Law, Chapter 148 §13

☒ New License ☐ Amended License

GIS Coordinates

LAT.

LONG.

License Number

Application is hereby made in accordance with the provisions of Chapter 148 of the General Laws of Massachusetts for a license to store flammables, combustibles or explosives on land in buildings or structures herein described.

Location of Land: 298 Amesbury Road, Map #465, Block #4, Lot #5B
Number, Street and Assessor's Map and Parcel ID

Attach a plot plan of the property indicating the location of property lines and all buildings or structures.

Owner of Land: Eddy Steven J.

Address of Land Owner: 298 Amesbury Road, Haverhill, MA

Use and Occupancy of Buildings and Structures: diesel fueling facility with convenience store

If this is an application for amendment of an existing license, indicate date of original license and any subsequent amendments

Attach a copy of the current license

Flammable and Combustible Liquids, Flammable Gases and Solids

Complete this section for the storage of flammable and combustible liquids, solids, and gases; see 527 CMR 1.00 Table 1.12.8.50; Attach additional pages if needed. All tanks and containers are considered full for the purposes of licensing and permitting.

PRODUCT NAME	CLASS	MAXIMUM QUANTITY	UNITS gal., lbs, cubic feet gal	CONTAINER UST, AST, IBC, drums UST
Diesel Fuel	II	32,000		

IN CITY COUNCIL: July 26 2022

NOT PASSED

Attest:

City Clerk

Total quantity of all flammable liquids to be stored: none

Total quantity of all combustible liquids to be stored: 32,000 gallons

Total quantity of all flammable gases to be stored: none

Total quantity of all flammable solids to be stored: none

IN CITY COUNCIL: April 5 2022

VOTED: that COUNCIL HEARING BE HELD APRIL 26 2022

Attest:

City Clerk

IN CITY COUNCIL: June 21 2022

CONTINUED TO JULY 26 2022

Attest:

City Clerk

IN CITY COUNCIL: April 26 2022

CONTINUED TO MAY 24 2022

Attest:

City Clerk

IN CITY COUNCIL: May 24 2022

CONTINUED TO JUNE 21 2022

Attest:

City Clerk

LP-gas (Complete this section for the storage of LP-gas or propane)

Indicate the maximum quantity of LP-gas to be stored and the sizes and capacities of all storage containers.
(See 527 CMR 1.00 Table 1.12.8.50)

- ❖ Maximum quantity (in gallons) of LP-gas to be stored in aboveground containers: _____

List sizes and capacities of all aboveground containers used for storage: _____

- ❖ Maximum quantity (in gallons) of LP-gas to be stored in underground containers: _____

List sizes and capacities of all underground containers used for storage: _____

Total aggregate quantity of all LP-gas to be stored: _____

Fireworks (Complete this section for the storage of fireworks)

Indicate classes of fireworks to be stored and maximum quantity of each class. (See 527 CMR 1.00 Table 1.12.8.50)

- ❖ Maximum amount (in pounds) of Class 1.3G: _____ Type/class of magazine used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.4G: _____ Type/class of magazine used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.4: _____ Type/class of magazine used for storage: _____

Total aggregate quantity of all classes of fireworks to be stored: _____

Explosives (Complete this section for the storage of explosives)

Indicate classes of explosive to be stored and maximum quantity of each class. (See 527 CMR 1.00 Table 1.12.8.50)

- ❖ Maximum amount (in pounds) of Class 1.1: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.2: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.3: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.4: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.5: _____ Number of magazines used for storage: _____

- ❖ Maximum amount (in pounds) of Class 1.6: _____ Number of magazines used for storage: _____

I, Johnny Kayrouz, hereby attest that I am authorized to make this application. I acknowledge that the information contained herein is accurate and complete to the best of my knowledge and belief. I acknowledge that all materials stored pursuant to any license granted hereunder must be stored or kept in accordance with all applicable laws, codes, rules and regulations, including but not limited to Massachusetts Chapter 148, and the Massachusetts Fire Code (527 CMR 1.00). I further acknowledge that the storage of any material specified in any license granted hereunder may not exceed the maximum quantity specified by the license.

Signature J. Kayrouz Date 03/24/2022 Name Johnny Kayrouz

Fire Department Use Only

I, ERIC M. TARPY, Head of the HAVERHILL Fire Department endorse this application with my

☒ Approval ☐ Disapproval

DK ETP
Signature of Head of the Fire Department

3/28/22
Date

Recommendations:

Approved as long as all State and Federal regulations, local ordinances are met, Construct and design with Sound Engineering Practices



City of Haverhill, MA

07/22/2022

CCSP-22-4

Health Department Review

City Council Special Permit

Status: Complete

Became Active: 03/28/2022

Assignee: Mark Tolman

Completed: 05/16/2022

Applicant

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Comments

Mark Tolman, May 16, 2022 at 3:55pm

Septic system approved.

Must apply for food service permit before store can operate.



City of Haverhill, MA

07/22/2022

CCSP-22-4

City Council Special Permit

Status: Active**Date Created:** Mar 28, 2022**Applicant**

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Important: Please Read Before Starting Your Application**Applicant Information****What is Your Role in This Process?**

Attorney/Agent

Applicant Business/Firm Phone

508-480-9900

Applicant Business/Firm City

Southborough

Applicant Business/Firm Zip

01772

Client Business Name

Kayrouz Realty LLC

Client Email

johnny@kayrouzrealty.com

Client City

Westborough

Client Zip

01581

Client Business Structure

Limited Liability Corporation (LLC)

Applicant Business/Firm Name

Bohler Engineering MA, LLC

Applicant Business/Firm Address

352 Turnpike Road

Applicant Business/Firm State

MA

Client Name

Johnny Kayrouz

Client Phone

508-366-1529

Client Address

16 East Main Street

Client State

MA

Client County

Worcester

Property Information**Proposed Housing Plan Name**

N/A

How Long Owned by Current Owner?

N/A

Lot Dimension(s)

131,587 sf

Proposed Street Name(s)

N/A

Type of Dwelling(s) Planned in Project

Single Family

Registry Plat Number, Block & Lot

465-4-5

Zoning District Where Property Located

CH - Commercial Highway

--

Deed Recorded in Essex South Registry: Block Number

465-4-5

Deed Recorded in Essex South Registry: Page

465-4-5

Does the Property Have Multiple Lots?

No

Thoroughly Describe the Reason(s) for thre Special Permit

Flammable Storage License

Property Description

The site currently encompasses a landscape supply business located west of Amesbury Road and south of Wannalancet Road.

Current Property Use

Agricultural

TOTAL Number of Units Planned

0

TOTAL Number of Parking Spaces Planned

9

Planned Lot Use**Lot Number**

Lot 1

Lot Plat Number, Bock, Lot

Map 465, Block 4, Lot 5B

Lot Dimensions

131,587 SF

Number of Existing Buildings on Lot

4

Size of Existing Building(s) on Lot

2,066 SF; 1,000 SF; 900 SF; 440 SF

Number of Buildings Planned for Lot

1

Size of Proposed Building(s)

1,482 SF

Number of Families to be Accommodated

0

Extent of Proposed Alterations

New Construction: Commercial

IF OTHER ALTERATIONS, Please Describe

--

Types of Units Planned on Lot

Rental

Number of Units Planned on Lot

0

Special Circumstances**Building Coverage**☐**Dimensional Variance**☐**Front Yard Setback**☐**Side Yard Setback**☐**Rear Yard Setback**☐**Lot Frontage**☐**Lot Depth**☐**Lot Area**☐**Building Height**☐**Floor Area Ratio**☐**Open Space**☐**Parking**☐**Sign Size****Use**

☐

Other

☒☐

IF OTHER, Please Describe

flammable storage license

Hearing Waiver

Agrees

No

Agreement & Signature

Agrees

☒

PLEASE READ

Office Use Only

City Council Decision

--

City Council Hearing Date

Reason for Council's Decision

--

City Council Members Absent

--

City Council Members Present

--

Continuance Meeting Date

--

Also Present

City Councilor Who Seconded Motion

--

City Councilor Who Made Motion

City Councilors Who Voted Against

--

City Councilors Who Abstained

Continuance Motion Decision

--

Who Submitted Continuance Request?

City Councilors Who Voted in Favor

--

Number of 12"x18" Mylar Copies

--

Appeal Expiration Date




Number of 24"x36" Mylar Copies








--

Number of 18"x24" Mylar Copies

--

Attachments

-  Authorization Letter.pdf
Uploaded by Lauren Sagaser on Mar 28, 2022 at 3:03 pm
-  written summary.pdf
Uploaded by Lauren Sagaser on Mar 28, 2022 at 3:07 pm
-  W191199ss3-C-201-Site.pdf
Uploaded by Lauren Sagaser on Mar 28, 2022 at 12:18 pm

-  14 W191199ss0 - Survey.pdf
Uploaded by Lauren Sagaser on Mar 28, 2022 at 12:18 pm
-  Project Description.pdf
Uploaded by Lauren Sagaser on Mar 28, 2022 at 12:26 pm
-  Record 65070 - ViewPoint Cloud.pdf
Uploaded by Lauren Sagaser on Mar 28, 2022 at 12:22 pm
-  DOC032822.pdf
Uploaded by Lauren Sagaser on Mar 28, 2022 at 1:48 pm
-  Abutters 298 Amesbury Rd 465.4.5.xlsx
Uploaded by Christine Webb on Mar 29, 2022 at 8:26 am
-  Mailing Labels 298 Amesbury Rd 465.4.5.pdf
Uploaded by Christine Webb on Mar 29, 2022 at 8:27 am
-  coordinate298 Amesbury Rd.docx
Uploaded by Linda Koutoulas on Apr 6, 2022 at 12:17 pm

History

Date	Activity
Mar 25, 2022 at 2:14 pm	Lauren Sagaser started a draft of Record CCSP-22-4
Mar 28, 2022 at 1:46 pm	Lauren Sagaser added attachment Flammable Storage License to Record CCSP-22-4
Mar 28, 2022 at 1:46 pm	Lauren Sagaser removed attachment Flammable Storage License from Record CCSP-22-4
Mar 28, 2022 at 1:48 pm	Lauren Sagaser added attachment Flammable Storage License Application to Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	Lauren Sagaser submitted Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Assessor for Abutter's List was assigned to Christine Webb on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Conservation Department Review was assigned to Robert Moore on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Engineering Department Review was assigned to John Pettis on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Wastewater Review was assigned to Robert Ward on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Health Department Review was assigned to Bonnie Dufresne on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Planning Director Review was assigned to William Pillsbury on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Fire1 Department Review was assigned to Eric Tarpy on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Fire2 Department Review was assigned to Michael Picard on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Police Department Review was assigned to Kevin Lynch on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Storm Water Review was assigned to Robert Moore on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step City Clerk Review - Hearing Dates Set was assigned to Maria Bevilacqua on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step DPW Review was assigned to Robert Ward on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step School Department Review was assigned to Mike Pfifferling on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Building Inspector Approval for Agenda was assigned to Tom Bridgewater on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step Water Supply Review was assigned to Robert Ward on Record CCSP-22-4
Mar 28, 2022 at 3:07 pm	approval step City Council Clerk Notified was assigned to Laurie Brown on Record CCSP-22-4
Mar 28, 2022 at 3:47 pm	completed payment step Special Permit Filing Fee on Record CCSP-22-4
Mar 28, 2022 at 3:59 pm	Bonnie Dufresne assigned approval step Health Department Review to Mark Tolman on Record CCSP-22-4
Mar 28, 2022 at 4:14 pm	Mike Pfifferling approved approval step School Department Review on Record CCSP-22-4
Mar 29, 2022 at 8:03 am	Michael Picard assigned approval step Fire1 Department Review to Michael Picard on Record CCSP-22-4
Mar 29, 2022 at 8:03 am	Michael Picard waived approval step Fire1 Department Review on Record CCSP-22-4
Mar 29, 2022 at 8:08 am	Michael Picard approved approval step Fire2 Department Review on Record CCSP-22-4
Mar 29, 2022 at 8:26 am	Christine Webb added attachment Abutters 298 Amesbury Rd 465.4.5.xlsx to Record CCSP-22-4
Mar 29, 2022 at 8:27 am	Christine Webb added attachment Mailing Labels 298 Amesbury Rd 465.4.5.pdf to Record CCSP-22-4
Mar 29, 2022 at 8:27 am	Christine Webb approved approval step Assessor for Abutter's List on Record CCSP-22-4
Mar 29, 2022 at 2:02 pm	Maria Bevilacqua approved approval step City Clerk Review - Hearing Dates Set on Record CCSP-22-4
Mar 31, 2022 at 9:41 am	Laurie Brown approved approval step City Council Clerk Notified on Record CCSP-22-4
Mar 31, 2022 at 3:54 pm	Robert Ward approved approval step Wastewater Review on Record CCSP-22-4
Mar 31, 2022 at 3:55 pm	Robert Ward assigned approval step Water Department Review to Robert Ward on Record CCSP-22-4
Mar 31, 2022 at 3:55 pm	Robert Ward approved approval step Water Department Review on Record CCSP-22-4
Mar 31, 2022 at 3:55 pm	Robert Ward approved approval step DPW Review on Record CCSP-22-4
Mar 31, 2022 at 3:56 pm	Robert Ward approved approval step Water Supply Review on Record CCSP-22-4
Mar 31, 2022 at 7:21 pm	Robert Moore approved approval step Conservation Department Review on Record CCSP-22-4

Date	Activity
Mar 31, 2022 at 7:22 pm	Robert Moore approved approval step Storm Water Review on Record CCSP-22-4
Apr 6, 2022 at 12:17 pm	Linda Koutoulas added attachment coordinate298 Amesbury Rd.docx to Record CCSP-22-4
Apr 19, 2022 at 10:58 am	Tom Bridgewater approved approval step Building Inspector Approval for Agenda on Record CCSP-22-4
Apr 19, 2022 at 11:33 am	Kevin Lynch approved approval step Police Department Review on Record CCSP-22-4
Apr 20, 2022 at 2:48 pm	Linda Koutoulas altered approval step Police Department Review, changed status from Complete to On Hold on Record CCSP-22-4
Apr 21, 2022 at 10:48 am	Maria Bevilacqua assigned approval step First Ad Placement to Maria Bevilacqua on Record CCSP-22-4
Apr 21, 2022 at 10:48 am	Maria Bevilacqua assigned approval step Placed on Agenda to Maria Bevilacqua on Record CCSP-22-4
Apr 21, 2022 at 10:52 am	Maria Bevilacqua assigned approval step Abutter Notification to Maria Bevilacqua on Record CCSP-22-4
May 16, 2022 at 3:55 pm	Mark Tolman approved approval step Health Department Review on Record CCSP-22-4
May 26, 2022 at 9:48 am	Karen Buckley changed IF YES, How Many Lots? from "1" to "0" on Record CCSP-22-4
May 26, 2022 at 9:48 am	Karen Buckley changed IF YES, What Is/Are the Map, Block Lot (MBL) Number(s)? from "N/A" to "" on Record CCSP-22-4

Timeline

Label	Status	Activated	Completed	Assignee	Due Date
 Special Permit Filing Fee	Paid	Mar 28, 2022 at 3:07 pm	Mar 28, 2022 at 3:47 pm	-	-
 School Department Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 28, 2022 at 4:14 pm	Mike Pfifferling	-
Fire1 Department Review	Skipped	Mar 28, 2022 at 3:07 pm	Mar 29, 2022 at 8:03 am	Michael Picard	-
 Fire2 Department Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 29, 2022 at 8:08 am	Michael Picard	-
 Assessor for Abutter's List	Complete	Mar 28, 2022 at 3:07 pm	Mar 29, 2022 at 8:27 am	Christine Webb	-
 City Clerk Review - Hearing Dates Set	Complete	Mar 28, 2022 at 3:07 pm	Mar 29, 2022 at 2:02 pm	Maria Bevilacqua	-
 City Council Clerk Notified	Complete	Mar 28, 2022 at 3:07 pm	Mar 31, 2022 at 9:41 am	Laurie Brown	-
 Wastewater Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 31, 2022 at 3:54 pm	Robert Ward	-
 Water Department Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 31, 2022 at 3:55 pm	Robert Ward	-
 DPW Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 31, 2022 at 3:55 pm	Robert Ward	-
 Water Supply Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 31, 2022 at 3:56 pm	Robert Ward	-
 Conservation Department Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 31, 2022 at 7:21 pm	Robert Moore	-
 Storm Water Review	Complete	Mar 28, 2022 at 3:07 pm	Mar 31, 2022 at 7:22 pm	Robert Moore	-
 Building Inspector Approval for Agenda	Complete	Mar 28, 2022 at 3:07 pm	Apr 19, 2022 at 10:58 am	Tom Bridgewater	-
 Health Department Review	Complete	Mar 28, 2022 at 3:07 pm	May 16, 2022 at 3:55 pm	Mark Tolman	-
 Planning Director Review	Active	Mar 28, 2022 at 3:07 pm	-	William Pillsbury	-
 Engineering Department Review	Active	Mar 28, 2022 at 3:07 pm	-	John Pettis	-
 Police Department Review	On Hold	Mar 28, 2022 at 3:07 pm	Apr 20, 2022 at 2:48 pm	Kevin Lynch	-
 First Ad Placement	Inactive	-	-	Maria Bevilacqua	-
 Placed on Agenda	Inactive	-	-	Maria Bevilacqua	-
 Abutter Notification	Inactive	-	-	Maria Bevilacqua	-
 Second Ad Placement	Inactive	-	-	-	-

BOHLER //

5

April 26, 2022

10.2 Doc 57

10.2

352 Turnpike Road
Southborough, MA 01772
508.480.9900

Continue to May 24-2022

10.2

Continue to July 26 2022

Via Electronic Mail

Haverhill City Council
4 Summer Street, Room 204
Haverhill, MA 01830

Attn: Linda Koutoulas, City Clerk

**RE: Hearing Continuance Request
Flammable Storage License Application
298 Amesbury Road
Haverhill, MA**

Dear Members of the Council:

Please accept this letter as Steven J. Eddy's c/o Kayrouz Realty, LLC and Bohler's (authorized agents) request for a hearing continuance in connection with the Flammable Storage License application filed in association with the above-referenced site. At this time, we respectfully request to continue the hearing, initially scheduled for April 26, 2022, to the Council's May 24, 2022 meeting agenda.

Additionally, the applicant agrees to waive 120-day hearing period in connection with the Flammable Storage License Application.

We appreciate this letter being presented to the City Council as our request for continuance as we do not plan to attend the hearing. Should you have any questions or need additional information, please do not hesitate to contact us at 508-480-9900.

Sincerely,

BOHLER ENGINEERING MA, LLC

Lucien M. DiStefano

LETTER OF TRANSMITTAL

DATE: April 21, 2022

SENDING VIA: Federal Express/Next Day

To: Haverhill City Hall

RE: Kayrouz Petroleum, LLC

City Clerk's Office

Abutters

4 Summer Street

Room 118

Haverhill, MA 01830

JOB #: W191199

These are transmitted: ☐ For approval ☐ For your use ☐ As requested ☐ For review and comment

Item #	# of Copies	Date	Description
1	1	04/21/2022	Abutters Certification Form
2	15	-	Abutters Mailing Certified Receipts
3	11	-	Abutters Mailing Certified Green Cards (11 received as of today 4/21/2022)
4			

Comments:

Enclosed please find the above-referenced items.

Should you have any questions or require additional information please do not hesitate to contact me at 508-480-9900.

COPY TO: _____ FROM: Tina Castelli (tcastelli@bohlereng.com)

If enclosures are not as noted, kindly notify us at once.

CITY OF HAVERHILL
LINDA L KOUTOULAS
CITY CLERK

Steven J Eddy

April 5, 2022

19

c/o Bohler Engineering MA, LLC
352 Turnpike Road
Southborough, MA 01772

Steven J Eddy, Owner; Kayrouz Rlty & Bohler Engineering to apply for Flammable Storage License

Johnny Kayrouz, Kayrouz Rlty LLC, 16 East Main st, Westborough, MA 01581

On your petition for a permit to maintain

Flammable license

for proposed diesel fueling station - 32,000 gallons diesel fuel to be stored underground

298 Amesbury rd - Map 465, Block 4, Lot 5B

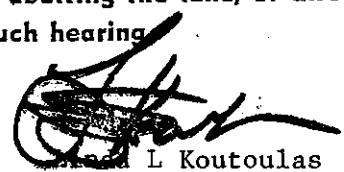
on land or premises

the City Council has set the time as the 26th day of April 2022 XXXX

at 7:00 o'clock P.M., at its room in City Hall Building as a time and place for hearing all parties interested in the same. (Hybrid hearing - residents can call City Office number at 978-374-2328. Their number will be taken and they will be called back. Interested parties also can log onto HaverhillSpeaks.org to review documents and make comments before the hearing.

Under the provisions of Section 13, Chapter 148 of the General Laws, as amended, you are to send notice of the above, by registered mail to all owners of real estate abutting the land, or directly opposite said land to be occupied, not less than seven days prior to such hearing.

Respectfully yours,


Linda L Koutoulas
City Clerk.

THESE DIRECTIONS MUST BE FOLLOWED

Extracts from General Laws, Chapter 148, Section 13

No building or other structure shall, except as provided in section fourteen, be used for the keeping, storage, manufacture or sale of any of the articles named in section nine, unless the local licensing authority shall have granted a license to use the land on which such building or other structure is or is to be situated for the aforementioned uses, after a public hearing, notice of the time and place of which hearing shall have been given, at the expense of the applicant, by the clerk of the city or of the local licensing authority, by publication, not less than seven days prior thereto, in a newspaper published in the English language in the city or town wherein said land is situated if there is any so published therein, otherwise in the county in which such city or town lies, and also by the applicant by registered mail, not less than seven days prior to such hearing, to all owners of real estate abutting on said land or directly opposite said land on any public or private street as they appear on the most recent local tax list at the time the application for such license is filed, and unless the application for such license shall have endorsed thereon the certificate of approval or disapproval of the head of the fire department.

Haverhill, Mass.

April 21, 2022

To the City Council,
of the City of Haverhill,
Gentlemen:

I hereby certify that on the 11th day of April 19 2022
I sent notice of the time and place of the within hearing, by registered mail to all owners of real estate
abutting land herein referred to, as follows:

Name

Address

Matt, LLC	71 Seven Sister Rd. Haverhill, MA 01830
Gelinas Phillip P	316 Amesbury Rd. Haverhill, MA 01830
MASS Prop Inves LLC	P.O. Box 1115, Haverhill MA 01831
SDSE EAST Broadway LLC	71 Seven Sister Rd. Haverhill, MA 01830
35 Wannalancet Road Realty TR	71 Seven Sister Rd. Haverhill, MA 01830
32 Wannalancet Road Realty TR	71 Seven Sister Rd. Haverhill, MA 01830
Whitman Arthur H	71 Seven Sister Rd. Haverhill, MA 01830
SDSE EAST Broadway LLC	71 Seven Sister Rd. Haverhill, MA 01830
SDSE EAST Broadway LLC	71 Seven Sister Rd. Haverhill, MA 01830
Keenan James B ETUX	255 Amesbury Rd. Haverhill MA 01830
Labranche Victor P	30 Shattuck St. Haverhill, MA 01830
Menna Joyce F	26 Elliott St. Haverhill, MA 01830
Eddy Steven J	71 Seven Sister Rd. Haverhill MA 01830
KRE-BSL Hocky Haverhill LLC	P.O. Box 92129, South Lake TX 76092
Northern Essex Realty Trust	198 Saw Ave. Old Orchard Beach, ME 04064

Jonny Kayrouz

Name of applicant

NOTE. Return this to City Clerk before the day of the hearing, along with the green receipt cards
from the Post Office

57

Hearing April 26, 2022

City Council Special Permit · Add to a project



Expiration Date

Active



CCSP-22-4

HAV CITY CLERK MAR28/22 PM 1:31



Details

Submitted on Mar 28, 2022 at 3:07 pm



Attachments

9 files



Activity Feed

Latest activity on Mar 29, 2022

Applicant

Lauren Sagaser



Location

298 AMESBURY RD, Haverhill, MA 01830

Timeline

Add New ▾

Special Permit Filing Fee

Paid Mar 28, 2022 at 3:47 pm

School Department Review

Completed Mar 28, 2022 at 4:14 pm

Fire1 Department Review

Skipped Mar 29, 2022 at 8:03 am

Fire2 Department Review

Completed Mar 29, 2022 at 8:08 am

Assessor for Abutter's List

Completed Mar 29, 2022 at 8:27 am

Planning Director Review

In Progress



City Clerk Review - Hearing Dates Set

In Progress

**City Council Clerk Notified**

In Progress

**Conservation Department Review**

In Progress

**DPW Review**

In Progress

**Engineering Department Review**

In Progress

**Health Department Review**

In Progress

**Police Department Review**

In Progress

**Storm Water Review**

In Progress

**Wastewater Review**

In Progress

**Water Department Review**

In Progress

**Water Supply Review**

In Progress

**Building Inspector Approval for Agenda**

In Progress

**First Ad Placement**

Review

**Placed on Agenda**

Review

**Abutter Notification**

Review

**Second Ad Placement**

Review



**LINDA KOUTOULAS**

Remove Comment • Apr 4, 2022 at 1:39 pm

Lauren - need GIS coordinates for this facility.

**Lauren Sagaser**

Remove Comment • Apr 4, 2022 at 1:51 pm

Hi Linda - coordinates are:

N: 3117289.6450, E: 775758.3895

LAT: N042° 48' 04.03", LONG: W071° 03' 15.86"

Please let me know if you need anything else. Thank you!

**LINDA KOUTOULAS**

Remove Comment • Apr 21, 2022 at 9:39 am

Still need green cards from certified mailing.....

**Lauren Sagaser**

Remove Comment • Apr 21, 2022 at 3:53 pm

The green cards and mailing slips from the abutters notifications are being sent to the City Clerk's office by FedEx for delivery tomorrow. FedEx tracking # is 5222 6734 6482. Thank you!

This step was assigned to Maria Bevilacqua - Mar 28, 2022 at 3:07 pm
Maria Bevilacqua approved this step - Mar 29, 2022 at 2:02 pm



City of Haverhill, MA

04/21/2022

CCSP-22-4

City Council Special Permit

Status: Active**Date Created:** Mar 28, 2022**Applicant**

Lauren Sagaser
lsagaser@bohlereng.com
42 Hancock Road
Franklin, MA 02038
5085170185

Location

298 AMESBURY RD
Haverhill, MA 01830

Owner:

EDDY STEVEN J
71 SEVEN SISTER RD HAVERHILL, MA 01830

Important: Please Read Before Starting Your Application**Applicant Information****What is Your Role in This Process?**

Attorney/Agent

Applicant Business/Firm Phone

508-480-9900

Applicant Business/Firm City

Southborough

Applicant Business/Firm Zip

01772

Client Business Name

Kayrouz Realty LLC

Client Email

johnny@kayrouzrealty.com

Client City

Westborough

Client Zip

01581

Client Business Structure

Limited Liability Corporation (LLC)

Applicant Business/Firm Name

Bohler Engineering MA, LLC

Applicant Business/Firm Address

352 Turnpike Road

Applicant Business/Firm State

MA

Client Name

Johnny Kayrouz

Client Phone

508-366-1529

Client Address

16 East Main Street

Client State

MA

Client County

Worcester

Property Information**Proposed Housing Plan Name**

N/A

How Long Owned by Current Owner?

N/A

Lot Dimension(s)

131,587 sf

Proposed Street Name(s)

N/A

Type of Dwelling(s) Planned in Project

Single Family

Registry Plat Number, Block & Lot

465-4-5

Zoning District Where Property Located

CH - Commercial Highway

--

Deed Recorded in Essex South Registry: Block Number

465-4-5

Deed Recorded in Essex South Registry: Page

465-4-5

Does the Property Have Multiple Lots?

No

Thoroughly Describe the Reason(s) for thre Special Permit

Flammable Storage License

Property Description

The site currently encompasses a landscape supply business located west of Amesbury Road and south of Wannalancet Road.

Current Property Use

Agricultural

TOTAL Number of Units Planned

0

TOTAL Number of Parking Spaces Planned

9

Planned Lot Use

Lot Number	Lot Plat Number, Bock, Lot
Lot 1	Map 465, Block 4, Lot 5B
Lot Dimensions	Number of Existing Buildings on Lot
131,587 SF	4
Size of Existing Building(s) on Lot	Number of Buildings Planned for Lot
2,066 SF; 1,000 SF; 900 SF; 440 SF	1
Size of Proposed Building(s)	Number of Families to be Accommodated
1,482 SF	0
Extent of Proposed Alterations	IF OTHER ALTERATIONS, Please Describe
New Construction: Commercial	--
Types of Units Planned on Lot	Number of Units Planned on Lot
Rental	0

Special Circumstances**Building Coverage**☐**Dimensional Variance**☐**Front Yard Setback**☐**Side Yard Setback**☐**Rear Yard Setback**☐**Lot Frontage**☐**Lot Depth**☐**Lot Area**☐**Building Height**☐**Floor Area Ratio**☐**Open Space**☐**Parking**☐**Sign Size****Use**

Applicant Information

IMPORTANT NOTE: ALL DOCUMENTS THAT ARE ATTACHED TO THIS APPLICATION MUST BE SUBMITTED AS ORIGINALS TO THE CITY CLERK BEFORE THE APPLICATION IS CONSIDERED COMPLETE AND PROCEEDS TO REVIEW. THESE DOCUMENTS WILL LATER BE FILED WITH THE COUNTY REGISTRY WHICH REQUIRES ORIGINAL DOCUMENTS.

What is Your Role in This Process? *

Attorney/Agent

Applicant Business/Firm Name *

Bohler Engineering MA, LLC

Applicant Business/Firm Phone *

508-480-9900

Applicant Business/Firm Address *

352 Turnpike Road

Applicant Business/Firm City *

Southborough

Applicant Business/Firm State *

MA

Applicant Business/Firm Zip *

01772

Client Name *

Johnny Kayrouz

Client Business Name *

Kayrouz Realty LLC

Client Phone *

508-366-1529

Client Email *

johnny@kayrouzrealty.com

Client Address *

16 East Main Street

Client City *

Westborough

Client State *

MA

Client Zip *

01581

Client County *

Worcester

Client Business Structure *

Limited Liability Corporation (LLC)

Property Information

Proposed Housing Plan Name *

N/A

Proposed Street Name(s) *

N/A

How Long Owned by Current Owner? *

N/A

Type of Dwelling(s) Planned in Project *

Single Family

Lot Dimension(s) *

131,587 sf

Registry Plat Number, Block & Lot *

465-4-5

Zoning District Where Property Located *

CH - Commercial Highway



Deed Recorded in Essex South Registry: Block Number *

465-4-5

Deed Recorded in Essex South Registry: Page *

465-4-5

Does the Property Have Multiple Lots? *

No

IF YES, How Many Lots? *

1

IF YES, What Is/Are the Map, Block Lot (MBL) Number(s)? *

N/A

Thoroughly Describe the Reason(s) for thre Special Permit *

Flammable Storage License

Property Description *

The site currently encompasses a landscape supply business located west of Amesbury Road and south of Wannalancet Road.

Current Property Use *

Agricultural

TOTAL Number of Units Planned *

0

TOTAL Number of Parking Spaces Planned *

9

Planned Lot Use

Lot Number *


Lot 1

Lot Plat Number, Block, Lot *

Map 465, Block 4, Lot 5B

Lot Dimensions *

131,587 SF

Number of Existing Buildings on Lot * 

4

Size of Existing Building(s) on Lot *

2,066 SF; 1,000 SF; 900 SF; 440 SF

Number of Buildings Planned for Lot *

1

Size of Proposed Building(s) *

1,482 SF

Number of Families to be Accommodated *

0

Extent of Proposed Alterations *

New Construction: Commercial

IF OTHER ALTERATIONS, Please Describe *

Types of Units Planned on Lot *

Rental

Number of Units Planned on Lot *

0

Special Circumstances

CHECK ALL THAT APPLY

Building Coverage

☐

Dimensional Variance

☐

Front Yard Setback

☐

Side Yard Setback

☐

Rear Yard Setback

☐

Lot Frontage

☐

Lot Depth

☐

Lot Area

☐

Building Height

☐

Floor Area Ratio

☐

Open Space

☐

Parking

☐

Sign Size

☐

Use

☐

Other

☒

IF OTHER, Please Describe *

flammable storage license

Hearing Waiver

Applicant agrees to waive the 120-day hearing requirement.

Agrees *

Steven J. Eddy, as Owner, authorizes Kayrouz Realty, LLC and Bohler Engineering MA, LLC (as agents), to apply for a Flammable Storage License for the diesel fueling station proposed at 298 Amesbury Road in Haverhill, MA. This includes approval from the Haverhill Fire Department and approvals required from the Haverhill City Council.

A Plot Plan has been uploaded as part of this application for approval of a Flammable Storage License from the Haverhill City Council for the proposed diesel fueling facility at 298 Amesbury Road in Haverhill, MA. This application does not include any requests for Variances to be granted by the Haverhill City Council.

This application is being filed per the direction of the City of Haverhill in order to obtain a flammable storage license for the proposed project at 298 Amesbury Road in Haverhill, MA. The proposed project includes the construction of a new 1,482 sf convenience store and five (5) high speed diesel fuel dispensers under a freestanding canopy along with new paved parking areas, landscaping, storm water management components, and associated utilities.

Development Review 65070

Your Submission

Attachments

Guests (0)

- ⊖ Site Plan Fee
- ✔ Verify Location Data (Parcel ID; address)
- ✔ **Zoning Approval**
- ✔ Conservation Approval
- ✔ Engineering Approval
- ✔ Fire1 Approval
- ✔ Fire2 Approval
- ✔ Health Approval
- ✔ Plumbing Approval
- ✔ Storm Water Approval
- ✔ Wastewater Approval
- ✔ Water Approval
- ✔ Building Approval

Zoning Approval

✔ **Complete.** This step was completed on Sep 3, 2020 at 9:56am.



Lauren Sagaser

Thank you, Richard!

Aug 26, 2020 at 10:44 am

**Richard Osborne**

Aug 26, 2020 at 10:20 am

zoning appears to ok , uses are allowed by right , no overlay districts effected , distanced from existing fuel dispensary greater than 500'. please continued with site plan approvals upon completion you will apply for foundation permit to start your project

**Lauren Sagaser**

Aug 25, 2020 at 4:31 pm

Hello,

I just wanted to reach out to see if there is anything further you need from us at this time in order to close your department's portion of the Engineering Department's Site Plan Review process.

Thank you!
Lauren

Message the reviewer

City of Haverhill, MA

Your Profile

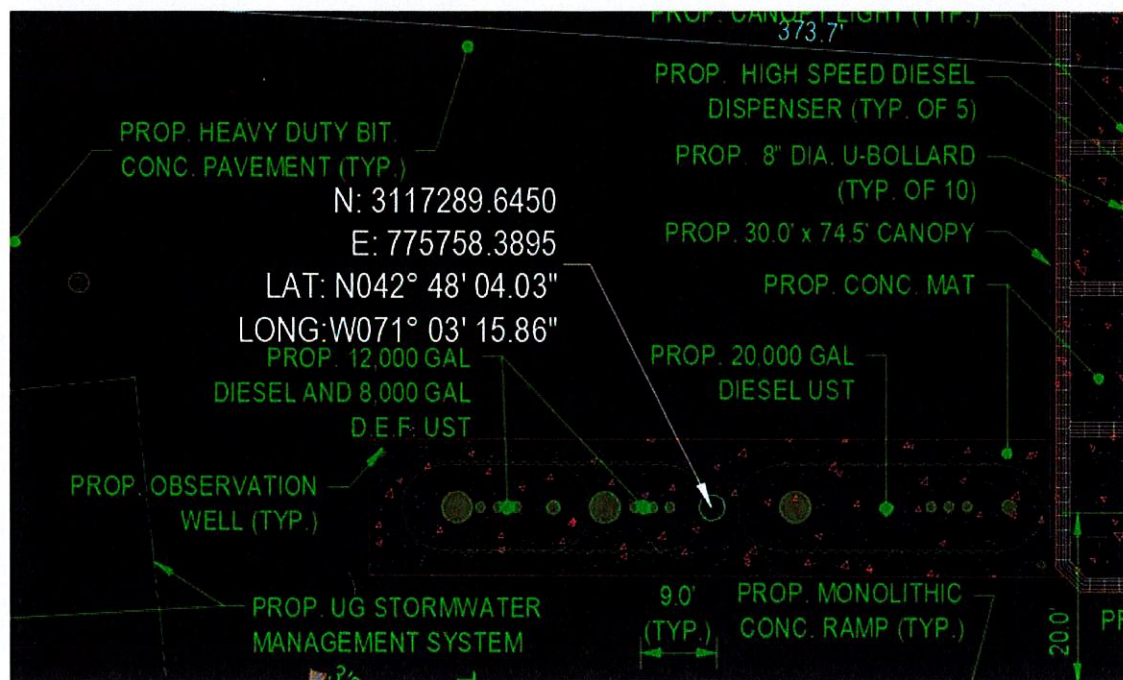
[Your Records \(/dashboard/records\)](/dashboard/records)

Resources

[Search for Records \(/search\)](/search)

[Claim a Record \(/claimRecord\)](/claimRecord)

[Employee Login \(https://haverhillma.viewpointcloud.io\)](https://haverhillma.viewpointcloud.io)



102

57

FIORELLO & MIGLIORI
ATTORNEYS AT LAW

KAREN L. FIORELLO
kfiorello@fimilaw.com

FIREHOUSE CONDOMINIUMS
18 ESSEX STREET
HAVERHILL, MASSACHUSETTS 01832
TEL 978/373-3003 FAX 978/373-3066

MICHAEL J. MIGLIORI
mmigliori@fimilaw.com

May 19, 2022

Copy

Haverhill City Council
4 Summer St, Room 204
Haverhill, MA 01830

Attn: Linda Koutoulas, City Clerk

Re: Hearing Continuance Request
Flammable Storage License Application
298 Amesbury Road

Dear President Jordan,

Please be advised that I am requesting a continuance of the hearing scheduled for May 24, 2022, on the above matter until **June 21, 2022**.

We are continuing to work with the City regarding proposed infrastructure improvements in the area and the continuance would be helpful in that regard.

Sincerely yours

Michael J. Migliori

MJM/dma

cc: Planning Director Pillsbury

4 Summer Street
Haverhill, MA 01830
Phone: (978) 374-2312
Fax: (978) 373-8490

CC Sp 22-4
Inflammable Hearing
298 Amesbury road
Steven J. Caddy

Fax

To: KATIE - GAZETTE

From: MARTA BEVILACQUA
City Clerk's Office

Fax: 978-685-2432

Date: April 4 2022

Phone: 978-946-2157 298 Amesbury rd

Pages: 2

re: Inflammable Hearing Ad -

CC:

☐ Urgent

☒ For Review

☐ Please Comment

☐ Please Reply

☐ Please Recycle

Hi Katie - please run this 1 time
in Gazette
April 15, 2022

Thank you! Maria

978-420-3624

April 15 2022

CITY OF HAVERHILL
HYBRID HEARING
CITY COUNCIL CHAMBERS, CITY HALL, ROOM 202, 4 SUMMER STREET
CCSP 22-4 - Inflammable Hearing

Notice is hereby given that the following application for a license to store, keep and use INFLAMMABLE LIQUIDS has been made to the City Clerk and the City Council will conduct a hearing for all parties interested, in the Council Chambers on **Tuesday, April 26, 2022** at 7:00 P.M. This notice is given under the provisions of Chapter 148 of the General Laws - Steven J Eddy; requesting to store 32,000 gallons of diesel fuel at proposed fueling station to be stored underground at 298 Amesbury rd. (*residents who are interested in commenting on this special permit will need to call the City Council office number 978-374-2328 - Once they call in, their phone number will be taken and they will be called back and allowed into the meeting in the order in which they called in. Residents will need a phone and be willing to give their phone number to the person answering the phone in order for them to get the call back*). Interested parties may also log onto Haverhillspeaks.org to review documents and make comments before the hearing.

Description of area, maps and plans are on file in the City Clerk's Office.



Linda L Koutoulas
City Clerk

Advertise: April 15, 2022

428-628-1
MATT, LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

441-1-17
LABRANCHE VICTOR P
30 SHATTUCK ST
HAVERHILL, MA 01830

428-628-10
GELINAS PHILLIP P
316 AMESBURY RD
HAVERHILL, MA 01830

459-2-1
MENNA JOYCE F
26 ELLIOTT STREET
HAVERHILL, MA 01830

428-628-13A
MASS PROP INVES, LLC
P.O. BOX 1115
HAVERHILL, MA 01831

465-4-5
EDDY STEVEN J
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-13C
SDSE EAST BROADWAY LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

465-4-5B
KRE-BSL HUSKY HAVERHILL LLC
PO BOX 92129
SOUTHLAKE, TX 76092

428-628-2
35 WANNALANCET ROAD REALTY TR
71 SEVEN SISTER RD
HAVERHILL, MA 01830

465-4-5B1
NORTHERN ESSEX REALTY TRUST
198 SACO AVE
OLD ORCHARD BEACH, ME 04064

428-628-3
32 WANNALANCET ROAD REALTY TR
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-4
WHITMAN ARTHUR H
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-5
SDSE EAST BROADWAY LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

428-628-6
SDSE EAST BROADWAY LLC
71 SEVEN SISTER RD
HAVERHILL, MA 01830

441-1-14D
KEENAN JAMES B ETUX
255 AMESBURY RD
HAVERHILL, MA 01830

ParcelID	StreetNum	StreetName	LocCity	Owner1	BillingAddress	City	State	Zip
428-628-1	23	WANNALANCET RD	HAVERHILL	MATT, LLC	71 SEVEN SISTER RD	HAVERHILL	MA	01830
428-628-10	316	AMESBURY RD	HAVERHILL	GELINAS PHILLIP P	316 AMESBURY RD	HAVERHILL	MA	01830
428-628-13A	330	AMESBURY RD	HAVERHILL	MASS PROP INVES, LLC	P.O. BOX 1115	HAVERHILL	MA	01831
428-628-13C		WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	71 SEVEN SISTER RD	HAVERHILL	MA	01830
428-628-2	35	WANNALANCET RD	HAVERHILL	35 WANNALANCET ROAD REALTY TR	71 SEVEN SISTER RD	HAVERHILL	MA	01830
428-628-3		WANNALANCET RD	HAVERHILL	32 WANNALANCET ROAD REALTY TR	71 SEVEN SISTER RD	HAVERHILL	MA	01830
428-628-4		WANNALANCET RD	HAVERHILL	WHITMAN ARTHUR H	71 SEVEN SISTER RD	HAVERHILL	MA	01830
428-628-5		WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	71 SEVEN SISTER RD	HAVERHILL	MA	01830
428-628-6		WANNALANCET RD	HAVERHILL	SDSE EAST BROADWAY LLC	71 SEVEN SISTER RD	HAVERHILL	MA	01830
441-1-14D	255	AMESBURY RD	HAVERHILL	KEENAN JAMES B ETUX	255 AMESBURY RD	HAVERHILL	MA	01830
441-1-17		AMESBURY RD	HAVERHILL	LABRANCHE VICTOR P	30 SHATTUCK ST	HAVERHILL	MA	01830
459-2-1	26	ELLIOTT ST	HAVERHILL	MENNA JOYCE F	26 ELLIOTT STREET	HAVERHILL	MA	01830
465-4-5	298	AMESBURY RD	HAVERHILL	EDDY STEVEN J	71 SEVEN SISTER RD	HAVERHILL	MA	01830
465-4-58	254	AMESBURY RD	HAVERHILL	KRE-BSL HUSKY HAVERHILL LLC	PO BOX 92129	SOUTHLAKE	TX	76092
465-4-581		AMESBURY RD	HAVERHILL	NORTHERN ESSEX REALTY TRUST	198 SACO AVE	OLD ORCHARD BEACH	ME	04064

LAND USE / ZONING
INFORMATION & NOTES[illegible]

ZONING ANALYSIS TABLE

[illegible]

N/A - NOT APPLICABLE
 N/A - NOT SPECIFIED
 (6) - EXISTING NON-CONFORMANCE
 (7) - IN THE CASE OF A CORNER LOT, ONLY ONE REAR YARD OR LOT LINE SHALL BE
 REQUIRED AND IT SHALL BE LOCATED OPPOSITE THE FRONT OF THE BUILDING.

NEW SIDEWALK CONSTRUCTION SHALL BE ADA COMPLIANT WITH EDGE OF NEW SIDEWALK AND ANY OBSTRUCTION, INCLUDING RAILINGS, BEING INSTALLED A MINIMUM OF 24" FROM THE DOOR LATCH.

THIS PLAN TO BE UTILIZED FOR SITE
LAYOUT PURPOSES ONLY

BOHLER
ENGINEERING

REVISIONS			DATE	COMMENT	BY
1	EDH/10/06	SE WITH CONNECTION			AM
2	04/2/09	SERVICES SYSTEM			AM
3	08/11/08	BOARDS OF HEALTH			LA
4		COMMENTS			
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100					

PERMIT
CCT

PROJECT NO.
DRAWN BY
CHECKED BY
DATE
SCALE
SHEET NO.
SHEET TOTAL

KAYROUZ
REALTY, LLC

LOCATION OF SITE
MAP #465, BLOCK #4, LOT #58
298 AVESBURY ROAD
TOWN OF HAVERHILL
ESSEX COUNTY.



352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone (508) 480-9900
Fax (508) 420-9980
www.BohlerEngineering.com

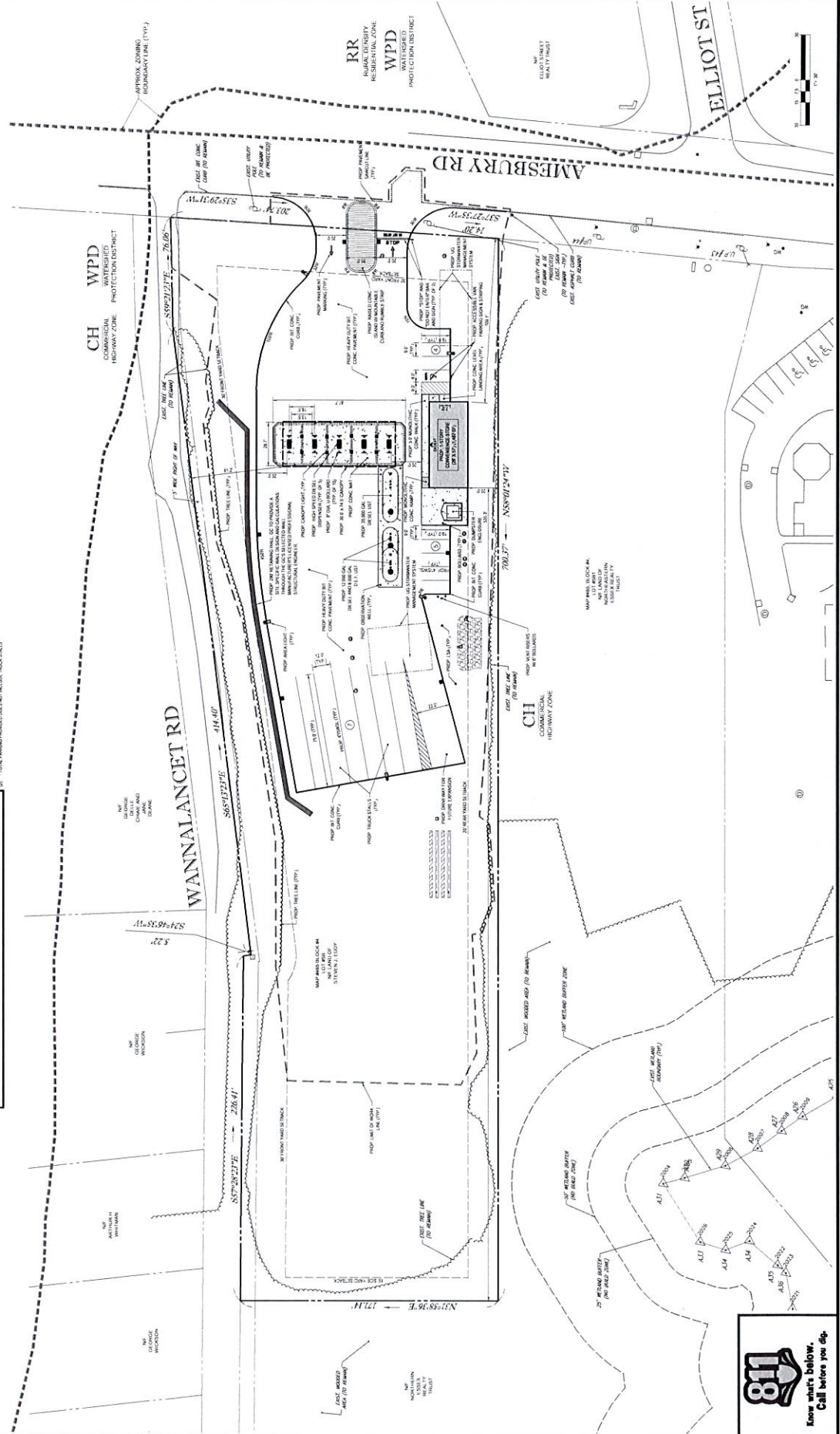


TABLE 1

SITE PLAN

C-201

REV 3 - 09/15/2020



**Know what's below.
Call before you dig.**

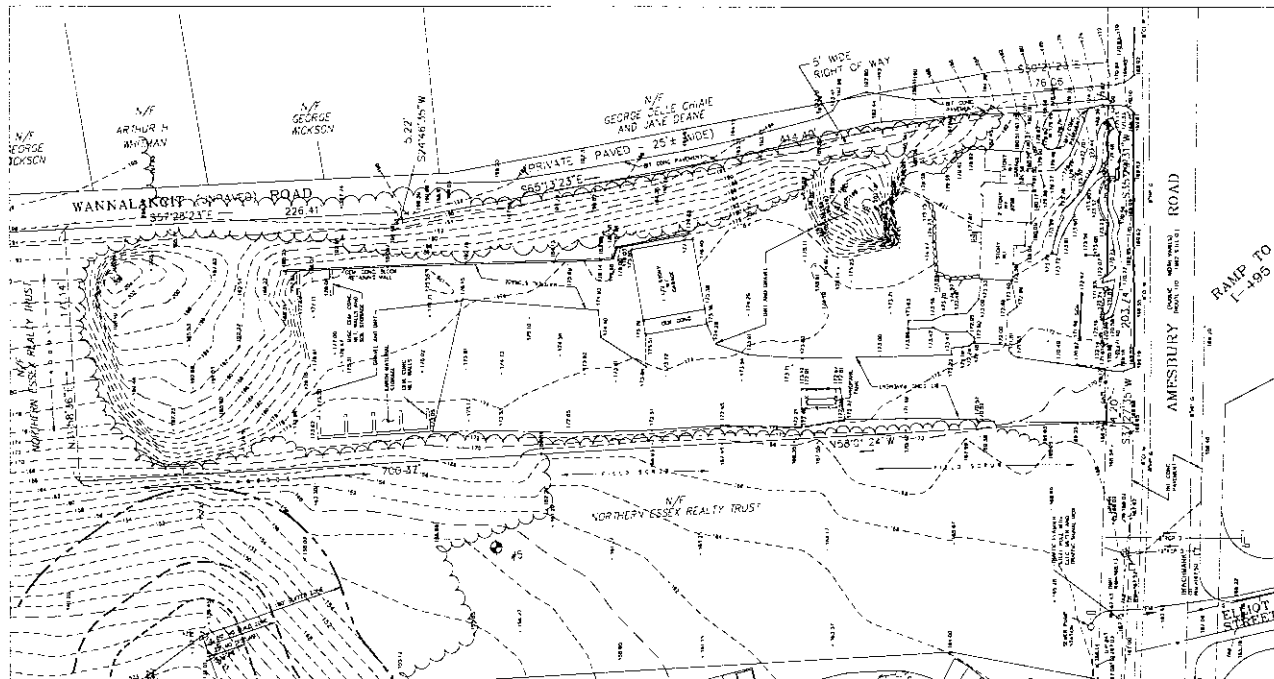
1. SELL CITY OF INDIANAPOLIS, ASSASSONS MAP 485 BLOCK 4 LOT 34
AND DELD BLOCK 8054 PAGE 258 E. 31.112 1.08 S. 7

[illegible]

HAVERHILL, MASSACHUSETTS
KAYROUZ REALTY
16 EAST MAIN STREET
WESTBROOK, MASSACHUSETTS 02451
DATE: NOVEMBER 10, 2015



MERRIMACK ENGINEERING SERVICES
66 PARK STREET
ANDOVER, MASSACHUSETTS 01910
PHONE: (978) 475-3555 FAX: (978) 475-1441
EMAIL: MERRIMACK@AOL.COM





FP-002A
(Rev. 1.2018)

The Commonwealth of Massachusetts
City/Town of Haverhill

Application For License

Massachusetts General Law, Chapter 148 §13

☒ New License ☐ Amended License

GIS Coordinates

LAT.

LONG.

License Number

Application is hereby made in accordance with the provisions of Chapter 148 of the General Laws of Massachusetts for a license to store flammables, combustibles or explosives on land in buildings or structures herein described.

Location of Land: 298 Amesbury Road, Map #465, Block #4, Lot #5B

Number, Street and Assessor's Map and Parcel ID

Attach a plot plan of the property indicating the location of property lines and all buildings or structures.

Owner of Land: Eddy Steven J.

Address of Land Owner: 298 Amesbury Road, Haverhill, MA

Use and Occupancy of Buildings and Structures: diesel fueling facility with convenience store

If this is an application for amendment of an existing license, indicate date of original license and any subsequent amendments

Attach a copy of the current license

Flammable and Combustible Liquids, Flammable Gases and Solids

Complete this section for the storage of flammable and combustible liquids, solids, and gases; see 527 CMR 1.00 Table 1.12.8.50; Attach additional pages if needed. All tanks and containers are considered full for the purposes of licensing and permitting.

PRODUCT NAME	CLASS	MAXIMUM QUANTITY	UNITS gal., lbs, cubic feet gal	CONTAINER UST, AST, IBC, drums UST
Diesel Fuel	II	32,000	gal	UST

IN CITY COUNCIL: July 26 2022

NOT PASSED

Attest:

City Clerk

Total quantity of all flammable liquids to be stored: none

Total quantity of all combustible liquids to be stored: 32,000 gallons

Total quantity of all flammable gases to be stored: none

Total quantity of all flammable solids to be stored: none

IN CITY COUNCIL: June 21 2022

CONTINUED TO JULY 26 2022

Attest:

City Clerk

IN CITY COUNCIL: April 5 2022

VOTED: that COUNCIL HEARING BE HELD APRIL 26 2022

Attest:

IN CITY COUNCIL: April 26 2022

CONTINUED TO MAY 24 2022

Attest:

City Clerk

IN CITY COUNCIL: May 24 2022

CONTINUED TO JUNE 21 2022

Attest:

City Clerk

MELINDA E. BARRETT
MAYOR



CITY OF HAVERHILL
MASSACHUSETTS

CITY HALL, ROOM 100
FOUR SUMMER STREET
HAVERHILL, MA 01830
PHONE 978-374-2300
FAX 978-373-7544
MAYOR@HAVERHILLMA.GOV
WWW.HAVERHILLMA.GOV

SEP 19 09:16
HAYCITYCLERK

September 18, 2025

11.7.1

City Council President Thomas J. Sullivan & Members of the City Council

RE: Cultural Council Appointment – Taina Mathurin Janvier

Dear Mr. President and Members of the City Council:

I hereby appoint Taina Mathurin Janvier of 34 Kennedy Circle Apt. A, Haverhill, to the Haverhill Cultural Council. This is a confirming appointment which takes effect upon confirmation and expires on September 30th, 2028.

I recommend approval.

Sincerely,

Melinda E. Barrett
Mayor

MEB/em

cc: John Hasan, Chair - Haverhill Cultural Council

Christine Lindberg

From: McKenna Ramona Jennings <mckennaramonajennings@gmail.com>
Sent: Monday, September 15, 2025 8:59 AM
To: Mayor; Effie Mayors Admin; Josselyn DeLeon-Estrada; Christine Lindberg
Subject: Fwd: Introduction and Interest in Serving on the Haverhill Cultural Council

Follow Up Flag: Follow up
Flag Status: Flagged

Warning! External Email. Exercise caution when opening attachments or clicking on any links.

Good morning Christine,

Thank you for your email! I hope you had a nice weekend. Below is the email from Taina Janvier, please let me know if you have any questions.

Kindly,
McKenna

----- Forwarded message -----

From: Taina Mathurin Janvier <tainajmathurin@gmail.com>
Date: Thu, Jul 17, 2025 at 5:11 PM
Subject: Introduction and Interest in Serving on the Haverhill Cultural Council
To: <mayor@haverhillma.gov>, <mayor@cityofhaverhill.com>

Dear Mayor Barrett,

I hope this message finds you well. My name is Taina Janvier, and I am writing to introduce myself and express my sincere interest in serving on the Haverhill Cultural Council.

I am an active community leader and volunteer in Haverhill, deeply committed to uplifting and connecting our city's diverse communities. I currently volunteer for several nonprofit organizations, including Makelt Haverhill, Urban Bridges, ACAT, and Dinah's House, Golden Hill Elementary School. In addition to volunteering with these organizations, my children are proudly enrolled in both the ACAT program and the Hunking School Summer Program.

I was recently honored to be nominated by Representative Andy Vargas to be recognized by the Massachusetts Black and Latino Legislative Caucus at the State House the last February 28, 2025, an acknowledgment that reflects my ongoing commitment to serve my community.

I hold a deep appreciation for the Haverhill Multicultural Festival every year, which beautifully showcases the richness of our community's cultural diversity. My interests also extend to bridging local residents with vital services through my work with the Multicultural Community Support MA Chapter.

It would be a privilege to bring this passion and perspective to the Haverhill Cultural Council, supporting its efforts to promote the arts and cultural initiatives that reflect and celebrate the vibrancy of our city.

Thank you, Mayor Barrett, for your time and consideration. I look forward to the opportunity to contribute further to our community.

Warm regards,
Taina Janvier



12.1

July 2, 2025

WR# 31150941 – Garfield Street

To the City of Haverhill, Massachusetts

SEP 4 PM 12:45
HAUG CITY CLERK

To Whom It May Concern:

Enclosed please find a petition of NATIONAL GRID and VERIZON, covering joint NATIONAL GRID-VERIZON pole location(s)

**WR# 31150941 – Garfield Street
Relocate 1 JO pole – Pole 2
Garfield and Ayer Street, Haverhill, MA**

If you have any questions regarding this permit, please contact:

Veasna Eang (978) 995-4819 or Veasna.eang@nationalgrid.com

Please notify National Grid's Jennifer Iannalfo of the **hearing date / time** to Jennifer.Iannalfo@nationalgrid.com

If this petition meets with your approval, please return an executed copy to each of the above-named Companies.

National Grid: Jennifer Iannalfo, 1101 Turnpike Street; North Andover, MA 01845
978-725-2308.

Very truly yours,

Dave Johnson

Dave Johnson
Supervisor, Distribution Design

Enclosures

WR# 31150941 - Garfield Street

Questions contact - Veasna Eang - 978-995-4819 or Veasna.eang@nationalgrid.com

PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

North Andover, Massachusetts

To The City Council
Of Haverhill, Massachusetts

SEP 4 PM 12:45
HAVCITYCLERK

Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England, Inc requests permission to locate poles, wires, and fixtures, including the necessary sustaining and protecting fixtures, along and across the following public way:

Garfield Street - National Grid to relocate 1 JO pole beginning at a point approximately 135 feet South-West of the centerline of the intersection of Garfield Street and Ayer Street and continuing approximately 15 feet in a South-East direction. National Grid to relocate pole 2. Pole 2 to be relocate +/- 20' North-East of its existing location, Haverhill, MA.

Location approximately as shown on plan attached.

Wherefore it prays that after due notice and hearing as provided by law, it be granted a location for and permission to erect and maintain poles and wires, together with such sustaining and protecting fixtures as it may find necessary, said poles to be erected substantially in accordance with the plan filed herewith marked - Garfield Street - Haverhill, Massachusetts.

No.# 31150941

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

Your petitioner agrees to reserve space for one cross-arm at a suitable point on each of said poles for the fire, police, telephone, and telegraph signal wires belonging to the municipality and used by it exclusively for municipal purposes.

Massachusetts Electric Company d/b/a
NATIONAL GRID *Dave Johnson*

BY _____
Engineering Department

VERIZON NEW ENGLAND, INC.

BY *[Signature]*
Manager / Right of Way



For
Proposed: J.O Pole: 2 Location:Garfield St.

nationalgrid
And
Verizon New England, Inc.

July 2, 2025

Veasna Eang – 978-995-4819 or Veasna.eang@nationalgrid.com

ORDER FOR JOINT OR IDENTICAL POLE LOCATIONS

To the City Council Of Haverhill, Massachusetts

Notice having been given and public hearing held, as provided by law,
IT IS HEREBY ORDERED: that Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND INC. (formerly known as NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY) be and they are hereby granted joint or identical locations for and permission to erect and maintain poles and wires to be placed thereon, together with such sustaining and protecting fixtures as said Companies may deem necessary, in the public way or ways hereinafter referred to, as requested in petition of said Companies dated the 2nd day of June, 2025.

All construction under this order shall be in accordance with the following conditions:

Poles shall be of sound timber, and reasonable straight, and shall be set substantially at the points indicated upon the plan marked – Garfield Street - Haverhill, Massachusetts.

No.# 31150941

Filed with this order:

There may be attached to said poles by Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England Inc. such wires, cables, and fixtures as needed in their business and all of said wires and cables shall be placed at a height of not less than twenty (20) feet from the ground.

The following are the public ways or part of ways along which the poles above referred to may be erected, and the number of poles which may be erected thereon under this order:

Garfield Street - National Grid to relocate 1 JO pole beginning at a point approximately 135 feet South-West of the centerline of the intersection of Garfield Street and Ayer Street and continuing approximately 15 feet in a South-East direction. National Grid to relocate pole 2. Pole 2 to be relocate +/- 20' North-East of its existing location, Haverhill, MA.

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

I hereby certify that the foregoing order was adopted at a meeting of the

Of the City/Town of _____, Massachusetts held on the _____ day of _____ 20__.

City/Town Clerk.

Massachusetts 20__
Received and entered in the records of location orders of the City/Town of _____
Book _____ Page _____

Attest:
City/Town Clerk

I hereby certify that on _____ 20__, at _____ o'clock, M
At _____ a public hearing was held on the petition of
Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND,
INC. for permission to erect the poles, wires, and fixtures described in the order herewith recorded,
and that we mailed at least seven days before said hearing a written notice of the time and place of
said hearing to each of the owners of real estate (as determined by the last preceding assessment
for taxation) along the ways or parts of ways upon which the Company is permitted to erect
Poles, wires, and fixtures under said order. And that thereupon said order was duly adopted.

City/Town Clerk.

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Board or Council of Town or City, Massachusetts

CERTIFICATE

I hereby certify that the foregoing is a true copy of the location order and certificate of
hearing with notice adopted by the _____ of the City of _____
Massachusetts, on the _____ day of 20__ and recorded with the records of location
orders of the said City, Book _____, and Page _____. This certified copy is made under
the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:
City/Town Clerk



July 2, 2025

WR# 31150941 – Garfield Street

To the City of Haverhill, Massachusetts

To Whom It May Concern:

Enclosed please find a petition of NATIONAL GRID and VERIZON, covering joint NATIONAL GRID-VERIZON pole location(s)

**WR# 31150941 –Garfield Street
Relocate 1 JO pole – Pole 2
Garfield and Ayer Street, Haverhill, MA**

If you have any questions regarding this permit, please contact:

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Please notify National Grid's Jennifer Iannalfo of the **hearing date / time** to Jennifer.Iannalfo@nationalgrid.com

If this petition meets with your approval, please return an executed copy to each of the above-named Companies.

National Grid: Jennifer Iannalfo, 1101 Turnpike Street; North Andover, MA 01845
978-725-2308.

Very truly yours,

Dave Johnson

Dave Johnson
Supervisor, Distribution Design

Enclosures

AUG 5 AM 11:32
HAVERHILL CLERK

WR# 31150941 - Garfield Street

Questions contact - Veasna Eang - 978-995-4819 or Veasna.eang@nationalgrid.com

PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

North Andover, Massachusetts

To The City Council
Of Haverhill, Massachusetts

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Location approximately as shown on plan attached.

Wherefore it prays that after due notice and hearing as provided by law, it be granted a location for and permission to erect and maintain poles and wires, together with such sustaining and protecting fixtures as it may find necessary, said poles to be erected substantially in accordance with the plan filed herewith marked - Garfield Street - Haverhill, Massachusetts.

No.# 31150941

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

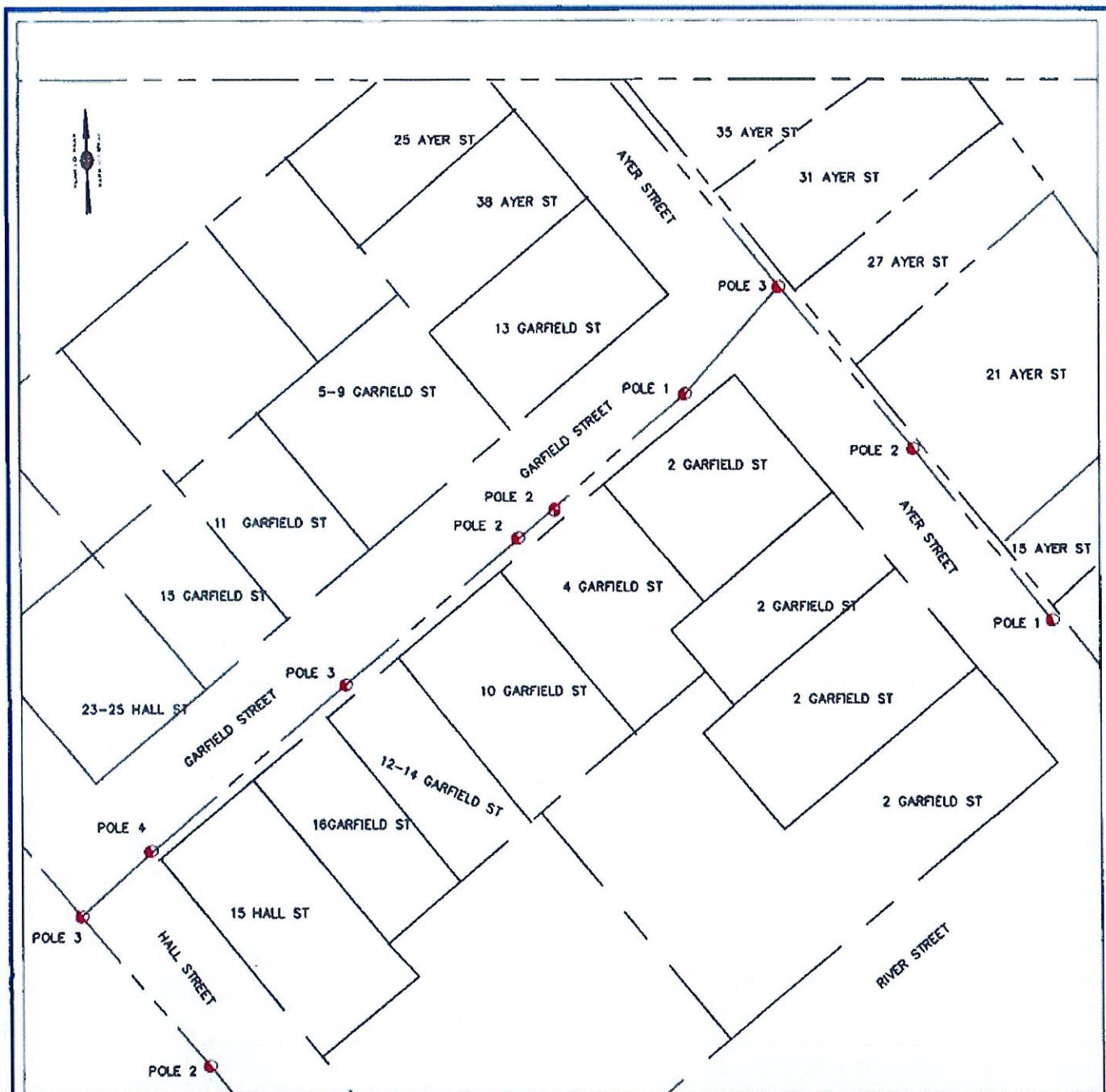
Your petitioner agrees to reserve space for one cross-arm at a suitable point on each of said poles for the fire, police, telephone, and telegraph signal wires belonging to the municipality and used by it exclusively for municipal purposes.

Massachusetts Electric Company d/b/a
NATIONAL GRID *Dave Johnson*

BY _____
Engineering Department

VERIZON NEW ENGLAND, INC.

BY *JS* _____
Manager / Right of Way



JOINT OWNED POLE PETITION

- Proposed NGRID Pole Locations
- Existing Overhead Utilities
- Existing J.O. Pole Locations
- Property Line

Nationalgrid to relocate pole 2 +/- 20' northeast of its existing location to accommodate customer's new driveway.

DISTANCES ARE APPROXIMATE

nationalgrid
And

Verizon New England, Inc.

Date: 6/2/2025

Work Request Number: 31150941

To Accompany Petition Dated:

To The: City Of Haverhill, MA

For Proposed: J.O Pole: 2 Location: Garfield St.

July 2, 2025

Veasna Eang – 978-995-4819 or Veasna.eang@nationalgrid.com

AUG 5 AM 11:32
HAVERHILL CLERK

ORDER FOR JOINT OR IDENTICAL POLE LOCATIONS

To the City Council Of Haverhill, Massachusetts

Notice having been given and public hearing held, as provided by law,
IT IS HEREBY ORDERED: that Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND INC. (formerly known as NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY) be and they are hereby granted joint or identical locations for and permission to erect and maintain poles and wires to be placed thereon, together with such sustaining and protecting fixtures as said Companies may deem necessary, in the public way or ways hereinafter referred to, as requested in petition of said Companies dated the 2nd day of June, 2025.

All construction under this order shall be in accordance with the following conditions:

Poles shall be of sound timber, and reasonable straight, and shall be set substantially at the points indicated upon the plan marked – Garfield Street - Haverhill, Massachusetts.

No.# 31150941

Filed with this order:

There may be attached to said poles by Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England Inc. such wires, cables, and fixtures as needed in their business and all of said wires and cables shall be placed at a height of not less than twenty (20) feet from the ground.

The following are the public ways or part of ways along which the poles above referred to may be erected, and the number of poles which may be erected thereon under this order:

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Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

I hereby certify that the foregoing order was adopted at a meeting of the

Of the City/Town of _____, Massachusetts held on the _____ day of _____ 20 ____.

Received and entered in the records of location orders of the City/Town of _____
Massachusetts
Book _____ Page _____ City/Town Clerk. _____ 20 ____.

Attest:
City/Town Clerk

I hereby certify that on _____ 20 ____, at _____ o'clock, M
At _____ a public hearing was held on the petition of
Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND,
INC. for permission to erect the poles, wires, and fixtures described in the order herewith recorded,
and that we mailed at least seven days before said hearing a written notice of the time and place of
said hearing to each of the owners of real estate (as determined by the last preceding assessment
for taxation) along the ways or parts of ways upon which the Company is permitted to erect
Poles, wires, and fixtures under said order. And that thereupon said order was duly adopted.

City/Town Clerk.

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Board or Council of Town or City, Massachusetts

CERTIFICATE

I hereby certify that the foregoing is a true copy of the location order and certificate of
hearing with notice adopted by the _____ of the City of _____
Massachusetts, on the _____ day of 20 ____ and recorded with the records of location
orders of the said City, Book _____, and Page _____. This certified copy is made under
the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:
City/Town Clerk



Haverhill

City Clerk's Office, Room 118
Phone: 978-374-2312 Fax: 978-373-8490
cityclerk@haverhillma.gov

Date: September 8, 2025

TO: Abutters/Interested Parties.....

Notice is hereby given under MGL, Ch. 166 and amendments thereto, of the application to the City Council of...Mass Electric, National Grid of North Andover and Verizon New England, inc. for joint pole location on


...Garfield St and Ayer St Plan WR# 31150941

...Questions: John Sheehan (781) 384-2312 or jsheehan@cpteng.com

Hearing will be held in City Council Chambers, City Hall, Room 202, 4 Summer st

Tuesday, October 21, 2025 at 7 o'clock P.M.. for the company(s) and all parties interested in said application.

By order of the City Council


City Clerk

Residents who are interested in commenting on this hearing can either (1) attend in person (City Council Chambers, Room 202) or (2) Attend remotely using the link provided on the public meeting calendar on the City's website.)

503-238-7
SOK KEA ✓
27 AYER ST
HAVERHILL, MA 01832

504-240-3
KITTRIDGE ADAM ✓
1 GARFIELD ST
HAVERHILL, MA 01832

504-241-1
THE CARLINE MINOCHE LIVING TRUST ✓
2 GARFIELD ST
HAVERHILL, MA 01832

504-241-6-2
337 RIVER STREET TRUST ✓
337 RIVER ST
HAVERHILL, MA 01831

503-238-8-31
DAVIS JR ROBERT E-ETUX ✓
31 AYER ST
HAVERHILL, MA 01832

504-240-4
OGLE KATHLEEN A ✓
5 GARFIELD ST
HAVERHILL, MA 01832

504-241-12
RAMOS JUAN ✓
10 GARFIELD ST
HAVERHILL, MA 01832

504-241-6-3
337 RIVER STREET TRUST ✓
337 RIVER ST
HAVERHILL, MA 01831

503-238-8-33
GONZALEZ FABIAN ✓
33 AYER ST
LAWRENCE, MA 01840

504-240-4A
PALEN FRANK T ✓
11 GARFIELD ST
HAVERHILL, MA 01832

504-241-13
RAMOS JUAN ✓
4 GARFIELD ST
HAVERHILL, MA 01832

Garfield st
WR#31150941
pole
location

125 SEP 4 AM 11:55
HRO ASSESSOR

A	B	C	D	E	F	G	H	I	J	K
ParcelID	StreetNum	AltStreetNm	StreetName	LocCity	CondoUnit Owner1		BillingAddress	City	State	Zip
1	503-238-7	27	AYER ST	HAVERHILL	SOK KEA		27 AYER ST	HAVERHILL	MA	01832
2	503-238-8-31	31	AYER ST	HAVERHILL	DAVIS JR ROBERT E-ETUX		31-33 AYER ST, UNIT 31	HAVERHILL	MA	01832
3	503-238-8-33	33	AYER ST	HAVERHILL	GONZALEZ FABIAN		95 SALEM ST	LAWRENCE	MA	01840
4	504-240-3	1	3 GARFIELD ST	HAVERHILL	KITTEDGE ADAM		1-3 GARFIELD ST	HAVERHILL	MA	01832
5	504-240-4	5	9 GARFIELD ST	HAVERHILL	OGLE KATHLEEN A		7 GARFIELD ST	HAVERHILL	MA	01832
6	504-240-4A	11	13 GARFIELD ST	HAVERHILL	PALEN FRANK T		13 GARFIELD ST	HAVERHILL	MA	01832
7	504-241-1	2	GARFIELD ST	HAVERHILL	THE CARLINE MINOCHE LIVING TRUST		2 GARFIELD ST	HAVERHILL	MA	01832
8	504-241-12	10	GARFIELD ST	HAVERHILL	RAMOS JUAN		4 GARFIELD ST	HAVERHILL	MA	01832
9	504-241-13	4	6 GARFIELD ST	HAVERHILL	RAMOS JUAN		4 GARFIELD ST	HAVERHILL	MA	01831
10	504-241-6-2	337	RIVER ST	HAVERHILL	2 337 RIVER STREET TRUST		P.O. BOX 417	HAVERHILL	MA	01831
11	504-241-6-3	337	RIVER ST	HAVERHILL	3 337 RIVER STREET TRUST		P.O. BOX 417	HAVERHILL	MA	01831

BOARD OF ASSESSORS
CITY OF HAVERHILL
4 SUMMER STREET • RM 115
HAVERHILL, MA 01830-5843



122
SEP 4 PM 12:45
HAVCITYCLERK

August 1, 2025

WR# 31188397 – High Street

To the City of Haverhill, Massachusetts

To Whom It May Concern:

Enclosed please find a petition for NATIONAL GRID and VERIZON, covering joint NATIONAL GRID-VERIZON pole location(s)

WR# 31188397 – High Street
Install 1 JO pole – Pole 8-50
High Street and Blaisdell Street, Haverhill, MA

If you have any questions regarding this permit, please contact:

John Sheehan (781) 384-2312 or jsheehan@cpteng.com

Please notify National Grid's Jennifer Iannalfo of the **hearing date / time** to Jennifer.Iannalfo@nationalgrid.com

If this petition meets with your approval, please return an executed copy to each of the above-named Companies.

National Grid: Jennifer Iannalfo, 1101 Turnpike Street; North Andover, MA 01845
978-725-2308.

Very truly yours,

Dave Johnson

Dave Johnson
Supervisor, Distribution Design

Enclosures

WR# 31188387 – High Street

Questions contact – John Sheehan (781) 384-2312 or jsheehan@cpteng.com

PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

North Andover, Massachusetts

To The City Council
Of Haverhill, Massachusetts

Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England, Inc requests permission to locate poles, wires, and fixtures, including the necessary sustaining and protecting fixtures, along and across the following public way:

High Street - National Grid to install 1 JO pole on High Street beginning at a point approximately 92 feet Southwest of the centerline of the intersection of High Street and Blaisdell Street. National Grid will install a new pole, pole 8-50 at approximately (42.774102, -71.090636), Haverhill, MA.

Location approximately as shown on plan attached.

Wherefore it prays that after due notice and hearing as provided by law, it be granted a location for and permission to erect and maintain poles and wires, together with such sustaining and protecting fixtures as it may find necessary, said poles to be erected substantially in accordance with the plan filed herewith marked – High Street - Haverhill, Massachusetts.

No.# 31188397

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

Your petitioner agrees to reserve space for one cross-arm at a suitable point on each of said poles for the fire, police, telephone, and telegraph signal wires belonging to the municipality and used by it exclusively for municipal purposes.

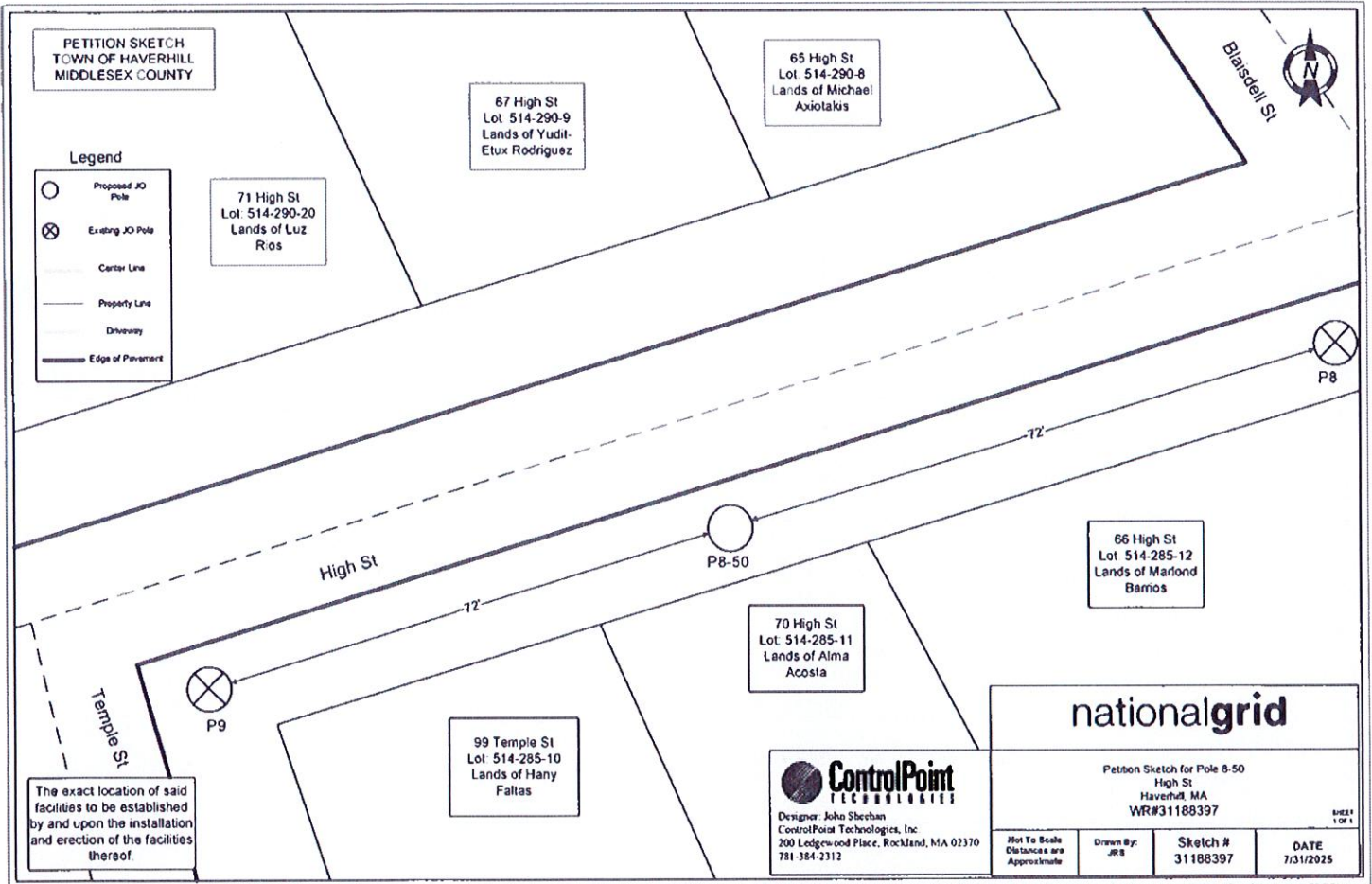
Massachusetts Electric Company d/b/a
NATIONAL GRID *Dave Johnson*

BY _____
Engineering Department

VERIZON NEW ENGLAND, INC.

BY *[Signature]* _____
Manager / Right of Way

SEP 4 PM 12:45
HAV CITY CLERK



August 1, 2025

Questions contact – John Sheehan (781) 384-2312 or jsheehan@cpteng.com

ORDER FOR JOINT OR IDENTICAL POLE LOCATIONS

To the City Council Of Haverhill, Massachusetts

Notice having been given and public hearing held, as provided by law,
IT IS HEREBY ORDERED: that Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND INC. (formerly known as NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY) be and they are hereby granted joint or identical locations for and permission to erect and maintain poles and wires to be placed thereon, together with such sustaining and protecting fixtures as said Companies may deem necessary, in the public way or ways hereinafter referred to, as requested in petition of said Companies dated the 30th day of July, 2025.

All construction under this order shall be in accordance with the following conditions:

Poles shall be of sound timber, and reasonable straight, and shall be set substantially at the points indicated upon the plan marked – High Street - Haverhill, Massachusetts.

No.# 31188397

Filed with this order:

There may be attached to said poles by Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England Inc. such wires, cables, and fixtures as needed in their business and all of said wires and cables shall be placed at a height of not less than twenty (20) feet from the ground.

The following are the public ways or part of ways along which the poles above referred to may be erected, and the number of poles which may be erected thereon under this order:

High Street - National Grid to install 1 JO pole on High Street beginning at a point approximately 92 feet Southwest of the centerline of the intersection of High Street and Blaisdell Street. National Grid will install a new pole, pole 8-50 at approximately (42.774102, -71.090636), Haverhill, MA.

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I hereby certify that the foregoing order was adopted at a meeting of the
Of the City/Town of _____, Massachusetts held on the _____ day of _____ 20 ____.

City/Town Clerk. 20
Massachusetts
Received and entered in the records of location orders of the City/Town of
Book Page

Attest:
City/Town Clerk

I hereby certify that on 20 , at o'clock, M
At a public hearing was held on the petition of
Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND,
INC. for permission to erect the poles, wires, and fixtures described in the order herewith recorded,
and that we mailed at least seven days before said hearing a written notice of the time and place of
said hearing to each of the owners of real estate (as determined by the last preceding assessment
for taxation) along the ways or parts of ways upon which the Company is permitted to erect
Poles, wires, and fixtures under said order. And that thereupon said order was duly adopted.

City/Town Clerk.

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Board or Council of Town or City, Massachusetts

CERTIFICATE

I hereby certify that the foregoing is a true copy of the location order and certificate of
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orders of the said City, Book , and Page . This certified copy is made under
the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:
City/Town Clerk



12.3

SEP 4 PM 12:46
HAVCITYCLERK

August 1, 2025

WR# 31188400 – Rogers Road

To the City of Haverhill, Massachusetts

To Whom It May Concern:

Enclosed please find a petition for NATIONAL GRID and VERIZON, covering joint NATIONAL GRID-VERIZON pole location(s)

WR# 31188400 – Rogers Road
Install 1 JO pole – Pole 7-50
Rogers Road and Ward Hill Avenue, Haverhill, MA

If you have any questions regarding this permit, please contact:

John Sheehan (781) 384-2312 or jsheehan@cpteng.com

Please notify National Grid's Jennifer Iannalfo of the **hearing date / time** to Jennifer.Iannalfo@nationalgrid.com

If this petition meets with your approval, please return an executed copy to each of the above-named Companies.

National Grid: Jennifer Iannalfo, 1101 Turnpike Street; North Andover, MA 01845
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Very truly yours,

Dave Johnson

Dave Johnson
Supervisor, Distribution Design

Enclosures

WR# 31188400 – Rogers Road

Questions contact – John Sheehan (781) 384-2312 or jsheehan@cpteng.com

PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

North Andover, Massachusetts

To The City Council
Of Haverhill, Massachusetts

Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England, Inc requests permission to locate poles, wires, and fixtures, including the necessary sustaining and protecting fixtures, along and across the following public way:

Rogers Road - National Grid to install 1 JO pole beginning at a point approximately 190 feet Northeast of the centerline of the intersection of Rogers Road and Ward Hill Avenue. National Grid will install a new pole, pole 7-50 at approximately (42.759732, - 71.114568), Haverhill, MA.

Location approximately as shown on plan attached.

Wherefore it prays that after due notice and hearing as provided by law, it be granted a location for and permission to erect and maintain poles and wires, together with such sustaining and protecting fixtures as it may find necessary, said poles to be erected substantially in accordance with the plan filed herewith marked – Rogers Road - Haverhill, Massachusetts.

No.# 31188400

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

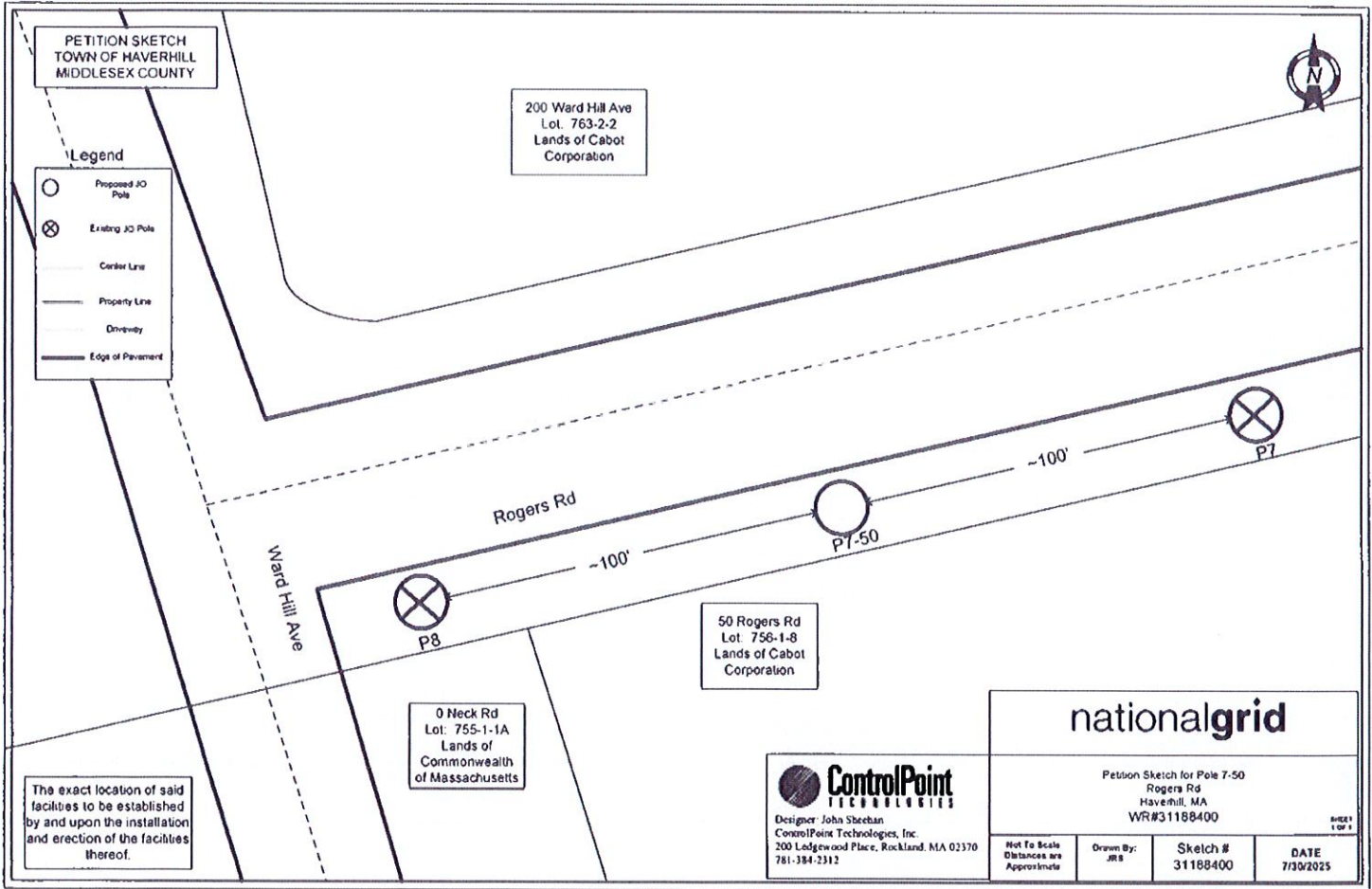
Your petitioner agrees to reserve space for one cross-arm at a suitable point on each of said poles for the fire, police, telephone, and telegraph signal wires belonging to the municipality and used by it exclusively for municipal purposes.

Massachusetts Electric Company d/b/a
NATIONAL GRID *Dave Johnson*

BY _____
Engineering Department

VERIZON NEW ENGLAND, INC.

BY *fb* _____
Manager / Right of Way



August 1, 2025

Questions contact – John Sheehan (781) 384-2312 or jsheehan@cpteng.com

ORDER FOR JOINT OR IDENTICAL POLE LOCATIONS

To the City Council Of Haverhill, Massachusetts

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IT IS HEREBY ORDERED: that Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND INC. (formerly known as NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY) be and they are hereby granted joint or identical locations for and permission to erect and maintain poles and wires to be placed thereon, together with such sustaining and protecting fixtures as said Companies may deem necessary, in the public way or ways hereinafter referred to, as requested in petition of said Companies dated the 30th day of July, 2025.

All construction under this order shall be in accordance with the following conditions:

Poles shall be of sound timber, and reasonable straight, and shall be set substantially at the points indicated upon the plan marked – Rogers Road - Haverhill, Massachusetts.

No.# 31188400

Filed with this order:

There may be attached to said poles by Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England Inc. such wires, cables, and fixtures as needed in their business and all of said wires and cables shall be placed at a height of not less than twenty (20) feet from the ground.

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I hereby certify that the foregoing order was adopted at a meeting of the
Of the City/Town of _____, Massachusetts held on the _____ day of _____ 20__.

City/Town Clerk. 20
Massachusetts
Received and entered in the records of location orders of the City/Town of
Book Page

Attest:
City/Town Clerk

I hereby certify that on 20 , at o'clock, M
At a public hearing was held on the petition of
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INC. for permission to erect the poles, wires, and fixtures described in the order herewith recorded,
and that we mailed at least seven days before said hearing a written notice of the time and place of
said hearing to each of the owners of real estate (as determined by the last preceding assessment
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Poles, wires, and fixtures under said order. And that thereupon said order was duly adopted.

City/Town Clerk.

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Board or Council of Town or City, Massachusetts

CERTIFICATE

I hereby certify that the foregoing is a true copy of the location order and certificate of
hearing with notice adopted by the of the City of
Massachusetts, on the day of 20 and recorded with the records of location
orders of the said City, Book , and Page . This certified copy is made under
the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:
City/Town Clerk



12.4

September 2, 2025

WR# 31188421 – Ward Hill Ave.

To the City of Haverhill, Massachusetts

SEP 4 PM 12:45
HAVCITYCLERK

To Whom It May Concern:

Enclosed please find a petition for NATIONAL GRID and VERIZON, covering joint NATIONAL GRID-VERIZON pole location(s)

**WR# 31188421 – Ward Hill Avenue
Install 1 JO pole – Pole 2-50
Ward Hill Avenue and Rogers Road, Haverhill, MA**

If you have any questions regarding this permit, please contact:

John Sheehan (781) 384-2312 or jsheehan@cpteng.com

Please notify National Grid's Jennifer Iannalfo of the **hearing date / time** to Jennifer.Iannalfo@nationalgrid.com

If this petition meets with your approval, please return an executed copy to each of the above-named Companies.

National Grid: Jennifer Iannalfo, 1101 Turnpike Street; North Andover, MA 01845
978-725-2308.

Very truly yours,

Dave Johnson

Dave Johnson
Supervisor, Distribution Design

Enclosures

WR# 31188421 – Ward Hill Avenue

Questions contact John Sheehan (781) 384-2312 or jsheehan@cpteng.com

PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

North Andover, Massachusetts

To The City Council
Of Haverhill, Massachusetts

Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England, Inc requests permission to locate poles, wires, and fixtures, including the necessary sustaining and protecting fixtures, along and across the following public way:

Ward Hill Avenue - National Grid to install 1 JO pole on Ward Hill Avenue beginning at a point approximately 368 feet Northwest of the centerline of the intersection of Rogers Road and Ward Hill Avenue. National Grid will install a new pole, pole 2-50 at approximately (42.76154, - 71.113807), Haverhill, MA.

Location approximately as shown on plan attached.

Wherefore it prays that after due notice and hearing as provided by law, it be granted a location for and permission to erect and maintain poles and wires, together with such sustaining and protecting fixtures as it may find necessary, said poles to be erected substantially in accordance with the plan filed herewith marked – Ward Hill Avenue - Haverhill, Massachusetts.

No.# 31188421

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

Your petitioner agrees to reserve space for one cross-arm at a suitable point on each of said poles for the fire, police, telephone, and telegraph signal wires belonging to the municipality and used by it exclusively for municipal purposes.

Massachusetts Electric Company d/b/a
NATIONAL GRID *Dave Johnson*






BY _____
Engineering Department

VERIZON NEW ENGLAND, INC.

BY *JS* _____
Manager / Right of Way

PETITION SKETCH
TOWN OF HAVERHILL
MIDDLESEX COUNTY

Legend

-  Proposed JO Pole
-  Existing JO Pole
-  Center Line
-  Property Line
-  Driveway
-  Edge of Pavement

P3

P2-50

Ward Hill Ave

P2

110 Avco Rd
Lot. 763-1-8C
Lands of Lane
Quest Realty, LLC

15 Ward Hill Ave
Lot. 763-1-8B
Lands of Lane Kidd
Realty Trust

26 Ward Hill Ave
Lot. 763-2-5E
Lands of Lane 26
Ward Hill Property
LLC

The exact location of said
facilities to be established
by and upon the installation
and erection of the facilities
thereof



Designer: John Sheehan
ControlPoint Technologies, Inc.
200 Ledgewood Place, Rockland, MA 02370
781-384-2312

nationalgrid

Petition Sketch for Pole 2-50
Ward Hill
Haverhill, MA
WR#31188421

SHEET
1 OF 1

Not To Scale
Distances are
Approximate

Drawn By:
JMS

Sketch #
31188421

DATE
7/30/2025



August 1, 2025

Questions contact – John Sheehan (781) 384-2312 or jsheehan@cpteng.com

ORDER FOR JOINT OR IDENTICAL POLE LOCATIONS

To the City Council Of Haverhill, Massachusetts

Notice having been given and public hearing held, as provided by law,
IT IS HEREBY ORDERED: that Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND INC. (formerly known as NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY) be and they are hereby granted joint or identical locations for and permission to erect and maintain poles and wires to be placed thereon, together with such sustaining and protecting fixtures as said Companies may deem necessary, in the public way or ways hereinafter referred to, as requested in petition of said Companies dated the 30th day of July, 2025.

All construction under this order shall be in accordance with the following conditions:

Poles shall be of sound timber, and reasonable straight, and shall be set substantially at the points indicated upon the plan marked – Ward Hill Avenue - Haverhill, Massachusetts.

No.# 31188421

Filed with this order:

There may be attached to said poles by Massachusetts Electric Company d/b/a NATIONAL GRID and Verizon New England Inc. such wires, cables, and fixtures as needed in their business and all of said wires and cables shall be placed at a height of not less than twenty (20) feet from the ground.

The following are the public ways or part of ways along which the poles above referred to may be erected, and the number of poles which may be erected thereon under this order:

Ward Hill Avenue - National Grid to install 1 JO pole on Ward Hill Avenue beginning at a point approximately 368 feet Northwest of the centerline of the intersection of Rogers Road and Ward Hill Avenue. National Grid will install a new pole, pole 2-50 at approximately (42.76154, - 71.113807), Haverhill, MA.

Also, for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

I hereby certify that the foregoing order was adopted at a meeting of the
Of the City/Town of _____, Massachusetts held on the _____ day of _____ 20__.

City/Town Clerk.
20__

Received and entered in the records of location orders of the City/Town of _____
Book _____ Page _____

Attest:

City/Town Clerk

I hereby certify that on _____ 20__, at _____ o'clock, M
At _____ a public hearing was held on the petition of
Massachusetts Electric Company d/b/a NATIONAL GRID and VERIZON NEW ENGLAND,
INC. for permission to erect the poles, wires, and fixtures described in the order herewith recorded,
and that we mailed at least seven days before said hearing a written notice of the time and place of
said hearing to each of the owners of real estate (as determined by the last preceding assessment
for taxation) along the ways or parts of ways upon which the Company is permitted to erect
Poles, wires, and fixtures under said order. And that thereupon said order was duly adopted.

City/Town Clerk.

.....
.....
.....
.....

Board or Council of Town or City, Massachusetts

CERTIFICATE

I hereby certify that the foregoing is a true copy of the location order and certificate of
hearing with notice adopted by the _____ of the City of _____
Massachusetts, on the _____ day of 20__ and recorded with the records of location
orders of the said City, Book _____, and Page _____. This certified copy is made under
the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:

City/Town Clerk



12.5

WR# 31140177 – Back Lane

August 26, 2025

The City Council of Haverhill, Massachusetts

SEP 8 PM4:12
HAVCITYCLERK

To Whom It May Concern:

Enclosed please find a petition of NATIONAL GRID covering the installation of underground facilities.

If you have any questions regarding this permit, please contact:

Veasna Eang (978) 995-4819 or Veasna.eang@nationalgrid.com

WR# 31140177

UG Petition on Back Lane, Haverhill, MA.

Please notify National Grid's Jennifer Iannalfo of the **hearing date / time** to
Jennifer.Iannalfo@nationalgrid.com

If this petition meets with your approval, please return an executed copy to:

National Grid: Jennifer Iannalfo; 1101 Turnpike Street; North Andover, MA 01845.

Very truly yours,

Dave Johnson

Dave Johnson
Supervisor, Distribution Design

Enclosures

Questions contact – Veasna Eang (978) 995-4819 or veasna.eang@nationalgrid.com

Petition of the Massachusetts Electric Company d/b/a NATIONAL GRID
Of NORTH ANDOVER, MASSACHUSETTS
For Electric Conduit Location:

To the City Council of Haverhill, Massachusetts

Respectfully represents the Massachusetts Electric Company d/b/a NATIONAL GRID of North Andover, Massachusetts, that it desires to construct a line of underground electric conduits, including the necessary sustaining and protecting fixtures, under and across the public way or ways hereinafter named.

Wherefore it prays that after due notice and hearing as provided by law, it be granted permission to excavate the public highways and to run and maintain underground electric conduits, together with such sustaining and protecting fixtures as it may find necessary for the transmission of electricity, said underground conduits to be located substantially in accordance with the plan filed herewith marked – Back Lane - Haverhill, Massachusetts.

The following are the streets and highways referred to:

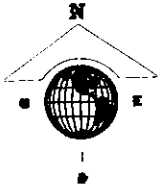
WR# 31140177

Back Lane - National Grid proposes installing approximately 450 feet of underground primary from pole 6 to pad - 1 in customer installed 2-3" conduit. National Grid will install a 1-25KVA transformer on Back Lane, Haverhill, MA.

Location approximately as shown on plan attached.

Massachusetts Electric Company d/b/a
NATIONAL GRID *Dave Johnson*

BY _____
Engineering Department



20 BACK LANE
HAVERHILL, MA
01830

+/- 450' OF 2-3"
CONDUIT W/ UG PRIMRY

PAD 1
25kVA-A

0 RIVER RD.
HAVERHILL, MA
01830






BLACK LANE

36 RIVER RD.
HAVERHILL, MA
01830

P6
25k

RIVER ROAD

LEGEND

-  SINGLE PHASE TRANSFORMER PAD
-  J/O POLE
-  GUY
-  3IN. PVC CONDUIT
-  OVERHEAD CONDUCTOR

20 BLACK LANE
PETITON

HAVERHILL
SHEET 1 OF 1

MA.

Date: 8.19.2025
Designer: V.E.
W/R: 31140177

nationalgrid

Questions contact – Veasna Eang (978) 995-4819 or veasna.eang@nationalgrid.com

WR# 31140177 – Back Lane

Dated: August 26, 2025

ORDERED:

Notice having been given and public hearing held, as provided by law, that the Massachusetts Electric Company d/b/a NATIONAL GRID be and it is hereby granted permission to excavate the public highways and to run and maintain underground electric conduits, together with such sustaining and protecting fixtures as said company may deem necessary, in the public way or ways hereinafter referred to, and to make the necessary house connections along said extensions, as requested in petition with said company dated the 18th day of August, 2025.

Said underground electric conduits shall be located substantially in accordance with the plan filed herewith marked – Back Lane - Haverhill, Massachusetts.

The following are the public ways or part of ways along which the underground electric conduits above referred to may be laid:

WR# 31140177

Back Lane - National Grid proposes installing approximately 450 feet of underground primary from pole 6 to pad - 1 in customer installed 2-3" conduit. National Grid will install a 1-25KVA transformer on Back Lane, Haverhill, MA.

I hereby certify that the foregoing order was adopted at a meeting of the

....., held on the day of, 20

.....,, 20

Received and entered in the records of location orders of the City/Town of
Book Page

Attest:

..... hereby certify that on20....., at o'clock,M

at, a public hearing was held on the petition of

Massachusetts Electric Company d/b/a NATIONAL GRID for permission to construct the underground electric conduits described in the order herewith recorded, and that I mailed at least seven days before said hearing a written notice of the time and place of said hearing to each of the

owners of real estate (as determined by the last preceding assessment for taxation) along the ways or parts of ways upon which the Company is permitted to construct the underground electric conduits under said order. And that thereupon said order was duly adopted.

.....
.....
.....

Special Permit - Flammable Fuel Storage**SPFL-25-2**

Submitted On: Jun 2, 2025

Applicant

 Guy Bresnahan
 978 270-0505
@ gbresnahan@brocooil.com

Primary Location

168 HALE ST
Haverhill, MA 01830

12.6

Important: Please Read Before Starting Your Application

SEP 19 AM 11:47
HAVCITYCLERK

Applicant Information**Is this application a new license or an amendment to an existing license?**

Amendment

If amendment, please indicate date of original license

October 27, 2020

What is Your Role in this Process?

Representative of Applicant

IF OTHER, please specify

--

Applicant or Business/Firm Name

Broco Energy

Applicant or Business/Firm Phone

781-246-1130

Applicant or Business/Firm Address

168 Hale Street

Applicant or Business/Firm City

Haverhill

Applicant or Business/Firm State

MA

Applicant or Business/Firm Zip Code

01830

Business Structure

Limited Liability Corporation (LLC)

Name of Licensee

Broco Terminals LLC

Address of Licensee

168 Hale Street

Contact Information for Licensee (Email and Phone Number)

gbresnahan@brocoenergy.com 978-270-0505

Land Information**Location of Land**

168 Hale Street

Owner of Land

Beehive Realty IIC

Address of Land Owner

7 Regency Ridge Andover MA 01810

Use and Occupancy of Buildings and Structures

Fuel storage and distribution

GIS Coordinants

latitude 42.784, longitude -71.089

Flammable and Combustible Liquids, Flammable Gases, and Solids

Product Name

LNG Propane

Maximum Quantity of Tank Storage

90,000

Container

Aboveground Storage Tank

Total quantity of all flammable liquids to be stored

392,000 gallons

Total quantity of all flammable gases to be stored

185,800 - all proposed AST's, truck tanks and misc. containers

Class of Flammable or Combustible

Class 1

Units

Gallons

IF OTHER, please specify

plus 49,800 truck storage + 18,000 gallons assorted customer tanks

Total quantity of all combustible liquids to be stored

392,000 - Class II & IIIB liquid fuels

Total quantity of all flammables solids to be stored

n/a

LP Gas or Propane Information

Will you have LP gas or propane?

Yes

Maximum quantity (in gallons) of LP gas to be stored in aboveground containers

120,000 gallons plus 49,800 gallons in delivery truck tanks and 18,000 in assorted new customer tanks

List sizes and capacities of all aboveground containers used for storage

(3) 30,000 horizontal AST (two current one proposed, one future 30k expansion AST)

Maximum quantity (in gallons) of LP gas to be stored in underground containers

n/a

List sizes and capacities of all underground containers used for storage

n/a

Total aggregate quantity of all LP gas to be stored:

185,800 gallons

Explosives Information

Will you have explosives?

No

Emergency Contact Information

Emergency Contact Name

Kris Ellis . COO

Emergency Contact Phone Number

978-228-0613

Acknowledgement

I, _____, hereby attest that I am authorized to make this application. I acknowledge that the information contained herein is accurate and complete to the best of my knowledge and belief. I acknowledge that all materials stored pursuant to any license granted hereunder must be stored or kept in accordance with all applicable laws, codes, rules and regulations, including but not limited to Massachusetts Chapter 148, and the Massachusetts Fire Code (527 CMR 1.00). I further acknowledge that the storage of any material specified in any license granted hereunder may not exceed the maximum quantity specified by the license.

true

Electronically Sign Here:

Guy Bresnahan

Signor's Role

Representative of Applicant

MELINDA E. BARRETT
MAYOR



CITY OF HAVERHILL
MASSACHUSETTS

17.1

SEP 19 09:27
HAYCITYCLERK

CITY HALL, ROOM 100
FOUR SUMMER STREET
HAVERHILL, MA 01830
PHONE 978-374-2300
FAX 978-373-7544
MAYOR@CITYOFHAVERHILL.COM
WWW.CITYOFHAVERHILL.COM

September 19, 2025

To: City Council President Thomas J. Sullivan and Members of the Haverhill City Council

From: Mayor Melinda E. Barrett

Re: Hispanic Heritage Month

Dear City Council President and Members of the Haverhill City Council:

I, Mayor Barrett request to present a proclamation recognizing September 15th to October 15th, 2025, as Hispanic Heritage Month in the City of Haverhill.

Sincerely,

Melinda E. Barrett
Mayor

MEB/em

P R O C L A M A T I O N

WHEREAS, according to the United States Census Bureau, almost a quarter of Haverhill's population are of Hispanic background, and Americans of Hispanic descent make contributions in every facet of our society; and

WHEREAS, in 1988, the United States Congress authorized Hispanic Heritage Month to encourage all citizens to recognize, understand and appreciate the contributions of Hispanic Americans; and

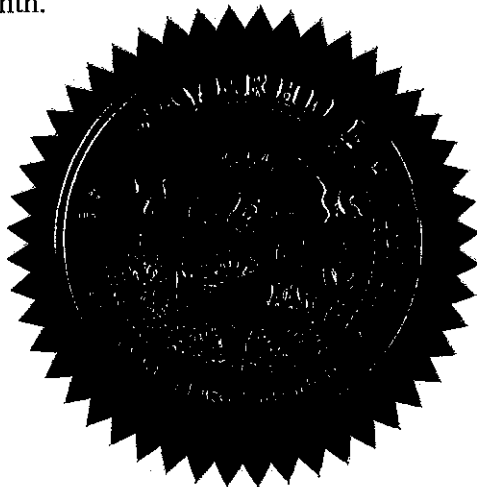
WHEREAS, Hispanic Americans enrich our culture and arts, serve at every level of government, contribute to our City's economy by creating business opportunities and jobs, serve valiantly in the military and law enforcement; and have played a significant role in making our community strong and prosperous; and

WHEREAS, Hispanic Heritage Month is an opportunity to celebrate the rich cultural traditions of the Hispanic American community:

NOW, THEREFORE I, MELINDA E. BARRETT of the City of Haverhill, Massachusetts, do hereby declare September 15 – October 15, 2025,

Hispanic Heritage Month

In the City of Haverhill and urge all citizens to join me in observing Hispanic Heritage Month.



IN WITNESS WHEREOF I have hereunto set my hand and caused the Seal of the City of Haverhill to be affixed this 23rd day of September in the year of our Lord Two Thousand Twenty-Five.


MAYOR MELINDA E. BARRETT