



CITY OF HAVERHILL
CITY COUNCIL AGENDA

Linda.

Tuesday, October 13, 2015 at 7:00 PM
City Council Chambers, Room 202

- 1. APPROVAL OF RECORDS OF THE PREVIOUS MEETING
- 2. ASSIGNMENT OF THE MINUTES REVIEW FOR THE NEXT MEETING
- 3. COMMUNICATIONS FROM THE MAYOR

- 4. COMMUNICATIONS AND REPORTS FROM CITY OFFICERS AND EMPLOYEES
- 5. UTILITY HEARING(S) AND RELATED ORDER(S)

Attachments

NO SCHEDULE

- 6. APPOINTMENTS

Confirming Appointments

NO SCHEDULE

Non-confirming Appointment

NO SCHEDULE

Resignations:

Haverhill Harbor Commission Alison Colby-Campbell

- 7. PETITIONS:

NO SCHEDULE

- 8. APPLICATIONS/HANDICAP PARKING SIGNS

RENEWALS:

- 8.1 William Mahoney at 9 Thorndike st
- 8.2 John Ohannesian at 7 South Summer st
- 8.3 Tina Maglio at 11 Norfolk st
- 8.4 Ana Albino for Marcus Albino at 7A Tremont st

Attachments

- 9. ONE DAY LIQUOR LICENSES

- 9.1. ONE DAY BEER AND WINE LICENSE

NO SCHEDULE

- 10. APPLICATIONS FOR PERMIT

NO SCHEDULE

- 11. TAG DAYS

NO SCHEDULE

- 12. ANNUAL LICENSE RENEWALS:

ROLLER SKATING RINK

NO SCHEDULE

POOL TABLES

NO SCHEDULE



CITY OF HAVERHILL
CITY COUNCIL AGENDA

Tuesday, October 13, 2015 at 7:00 PM
City Council Chambers, Room 202

BOWLING

NO SCHEDULE

Sunday Bowling

NO SCHEDULE

BUY & SELL SECOND HAND CLOTHING

NO SCHEDULE

BUY & SELL SECOND HAND ARTICLES

NO SCHEDULE

JUNK DEALER

NO SCHEDULE

BUY & SELL OLD GOLD

NO SCHEDULE

PAWNBROKER

NO SCHEDULE

LIMOUSINES

NO SCHEDULE

AUCTIONEER

NO SCHEDULE

13. HAWKER/PEDDLER:

13.1 Charles Hibbert; to sell Christmas trees, kissing balls, wreaths, baskets & decorations; at 297 Lincoln av; November 27th thru December 24th; Sunday-Saturday, 9:00 am to 9:00 pm

Applicant has police approval

Attachment

14. DRAINLAYER 2015 LICENSE:

NO SCHEDULE

15. HEARINGS AND RELATED ORDERS:

NO SCHEDULE

16. MOTIONS AND ORDERS:

16.1 Transfers from Capital Projects account to the following Capital Accounts:

Flooring City Hall	\$10,000
16.2 Rail Trail	\$125,000
16.3 Retaining Wall City Hall	\$60,000
16.4 Paint & Repair Eves City Hall	\$55,000

Attachments

17. ORDINANCES (FILE 10 DAYS)

NO SCHEDULE



**CITY OF HAVERHILL
CITY COUNCIL AGENDA**

**Tuesday, October 13, 2015 at 7:00 PM
City Council Chambers, Room 202**

18 UNFINISHED BUSINESS OF PRECEDING MEETINGS:

18.1 Document 52-K; Ordinance re: Parking, 491 Washington st; Apartment #1; Add Handicap parking

18.2 Document 52-L; Ordinance re: Parking, 48 Wilson st; Add Handicap Parking

18.3 Document 52-M; Ordinance re: Parking, 10 Church st; Handicap Parking – Add 2 Spaces

18.4 Document 77-B; Bond Order – Authorize Treasurer to borrow up to \$2.5M for purposes of implementing energy conservation measures at 11 Haverhill School facilities

18.5 Document 118-B; Ordinance re: Vehicles & Traffic; Amend City Code Chapter 240; Section 85; No Parking; Bryant av; Entire length north & south side; 24 hours

All filed September 30th

Attachments

19 MONTHLY REPORTS

19.1 Abatement Report from the Board of Assessors for the month of September 2015

Attachment

20 COMMUNICATIONS FROM COUNCILLORS

20.1 Communication from Councillor Barrett requesting to discuss the influx of cut through and speeding traffic on Front st

Attachment

21 RESOLUTIONS AND PROCLAMATIONS

NO SCHEDULE

22 COUNCIL COMMITTEE REPORTS AND ANNOUNCEMENTS

23 DOCUMENTS REFERRED TO COMMITTEE STUDY

24 ADJOURN

6.

Alison Colby-Campbell
112 Farrwood Drive
Haverhill, MA 01835

September 1, 2015

Mayor James Fiorentini
Haverhill City Hall
4 Summer Street Room 100
Haverhill, MA 01830

Dear Mayor Fiorentini,

After considerable contemplation, I have decided to tender my resignation as a member of the Haverhill Harbor Commission.

I recognize that the Merrimack River provides a fabulous opportunity for promoting the City and I look forward to watching its increased usage. However, at this time I feel that my experience in marketing and promotion would be better used for other endeavors and groups. I will, through my The Heartbeat of Haverhill blog and Facebook page, continue to promote positive actions on our river.

I especially enjoyed working with Sandy ODea. She is a hard and conscientious worker with a strong sense of the future that will benefit the City greatly.

It was an honor to be appointed to the Haverhill Harbor Commission so I did not come to this decision lightly.

Thank you,



Alison Colby-Campbell

CITY OF HAVERHILL
APPLICATION FOR HANDICAP PARKING SIGN

8.1

*NEW _____
*RENEWAL X

DATE OF REQUEST 9-24-15 DATE OF APPROVAL _____

NAME: William Mahoney

ADDRESS: 9 Thornville St., Haverhill, MA 01830

TELEPHONE #: 1-603-303-4010

VEHICLE TYPE: TOYOTA 207

PLATE #: E999

Do you currently have off street parking at your residence? ___ Yes X No

If yes, why is there a need for a handicap parking sign? _____

Did you have a handicap parking sign at a previous address? ___ Yes X No

If yes, location? 9 THORN DIKE ST

X William L Mahy
Applicant Signature

• Please include a copy of your current handicap placard or handicap registration, along with this application.

Approve ___ Denied

Reason for denial

Alan R. [Signature]
Chief of Police Signature

___ Approve ___ Denied

Reason for denial

City Council Approval

Please allow for a minimum of thirty (30) days for sign placement upon approval of City Council.

*ORDINANCE WILL EXPIRE 24 MONTHS FROM DATE OF APPROVAL.

MAIL OR DELIVER COMPLETED APPLICATION TO CHIEF OF POLICE, 40 BAILEY BLVD.

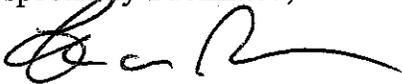
to Officer Lance Powell

To: Chief Denaro
From: Officer Powell
Date: October 7, 2015
Re: Handicap sign request, 9 Thorndike St.

Sir,

I have reviewed the application for a handicap sign request from Mr. William Mahoney of 9 Thorndike St. I have inspected the location and discussed the matter with the applicant. At this time the applicant and location fit the criteria for a handicap space. I recommend that the application be approved for renewal.

Respectfully Submitted,

A handwritten signature in black ink, appearing to be 'O. Powell', written in a cursive style.

Officer Powell #8

CITY OF HAVERHILL
APPLICATION FOR HANDICAP PARKING SIGN

8.2

*NEW _____

*RENEWAL

DATE OF REQUEST 10-6-15 DATE OF APPROVAL _____

NAME: John Channesian

ADDRESS: 7 S. Summer St. Bradford

TELEPHONE #: 978 420 7389

VEHICLE TYPE: Honda Accord

PLATE #: 28DN33

Do you currently have off street parking at your residence? Yes No

If yes, why is there a need for a handicap parking sign? I HAVE YEARS IN DRIVING / I HAVEN'T HAD TIME TO WALK

Did you have a handicap parking sign at a previous address? Yes No

If yes, location? _____

John Channesian
Applicant Signature

• Please include a copy of your current handicap placard or handicap registration, along with this application.

Approve Denied

Reason for denial

Alan R. Powell
Chief of Police Signature

Approve Denied

Reason for denial

City Council Approval

Please allow for a minimum of thirty (30) days for sign placement upon approval of City Council.

*ORDINANCE WILL EXPIRE 24 MONTHS FROM DATE OF APPROVAL.

MAIL OR DELIVER COMPLETED APPLICATION TO CHIEF OF POLICE, 40 BAILEY BLVD.

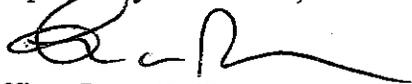
c/o Officer Lance Powell

To: Chief Denaro
From: Officer Powell
Date: October 7, 2015
Re: Handicap sign request, 7 S. Summer St

Sir,

I have reviewed the application for a handicap sign request from Mr. John Ohannesian of 7 South Summer St. I have inspected the location and discussed the matter with the applicant. At this time the applicant and location fit the criteria for a handicap space. I recommend that the application be approved for renewal.

Respectfully Submitted,

A handwritten signature in black ink, appearing to be 'O. Powell', written over the typed name 'Officer Powell #8'.

Officer Powell #8

CITY OF HAVERHILL
APPLICATION FOR HANDICAP PARKING SIGN

8.3

*NEW _____
*RENEWAL Y

DATE OF REQUEST 9/28/15 DATE OF APPROVAL _____

NAME: Tina Maglio

ADDRESS: 11 Norfolk St.

TELEPHONE #: 978-360-0194

VEHICLE TYPE: 2003 Chevy Tahoe

PLATE #: 19LH01

Do you currently have off street parking at your residence? Yes No

If yes, why is there a need for a handicap parking sign? Front door is at the street and easier for handicap child to get in front door.

Did you have a handicap parking sign at a previous address? Yes No

If yes, location? _____

Tina Maglio
Applicant Signature

• Please include a copy of your current handicap placard or handicap registration, along with this application.

Approve Denied

Reason for denial

Ala R. Powell
Chief of Police Signature

Approve Denied

Reason for denial

City Council Approval

Please allow for a minimum of thirty (30) days for sign placement upon approval of City Council.

*ORDINANCE WILL EXPIRE 24 MONTHS FROM DATE OF APPROVAL.

MAIL OR DELIVER COMPLETED APPLICATION TO CHIEF OF POLICE, 40 BAILEY BLVD.

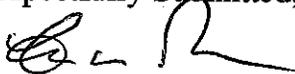
40 Officer Lance Powell

To: Chief Denaro
From: Officer Powell
Date: October 7, 2015
Re: Handicap sign request, 11 Norfolk St.

Sir,

I have reviewed the application for a handicap sign request from Ms. Tina Maglio of 11 Norfolk St. I have inspected the location and discussed the matter with the applicant. At this time the applicant and location fit the criteria for a handicap space. I recommend that the application be approved for renewal.

Respectfully Submitted,



Officer Powell #8

CITY OF HAVERHILL
APPLICATION FOR HANDICAP PARKING SIGN

8.4

*NEW _____
*RENEWAL X

DATE OF REQUEST 10/5/15 DATE OF APPROVAL _____

NAME: Ana Albino (Marcos B. Albino)

ADDRESS: 77A Tremont St. Haverhill, MA 01830

TELEPHONE #: (978) 476-1272

VEHICLE TYPE: School Bus

PLATE #: N/A

Do you currently have off street parking at your residence? Yes No
If yes, why is there a need for a handicap parking sign? My son, Marcos B. Albino is handicap

Did you have a handicap parking sign at a previous address? Yes No
If yes, location? _____

x Ana Albino
Applicant Signature

• Please include a copy of your current handicap placard or handicap registration, along with this application.

Approve Denied

Reason for denial

Alan R. Powell
Chief of Police Signature

Approve Denied

Reason for denial

City Council Approval

Please allow for a minimum of thirty (30) days for sign placement upon approval of City Council.

*ORDINANCE WILL EXPIRE 24 MONTHS FROM DATE OF APPROVAL.

MAIL OR DELIVER COMPLETED APPLICATION TO CHIEF OF POLICE, 40 BAILEY BLVD.

40 Officer Lance Powell

To: Chief Denaro

From: Officer Powell

Date: October 5, 2015

Re: Handicap sign renewal

Sir,

I have met with the applicant at 7A Tremont St. in regards to the handicap sign renewal. The status at this location has not changed and I would recommend the renewal.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Powell #8", written in a cursive style.

Officer Powell #8



Haverhill

13.1

City Clerk's Office, Room 118
Phone: 978-420-3623 Fax: 978-373-8490
cityclerk@cityofhaverhill.com

Date SEP 24 2015

The undersigned respectfully asks to receive a license to conduct business in the City of Haverhill as a:

- Hawker or Peddler
- Employee of a Hawker or Peddler

NAME: Charles Hibbert SIGNATURE: C. Hibbert

ALL MERCHANDISE TO BE SOLD: Christmas trees, kissing balls, wreaths & baskets & decorations

MONTH(S): NOV 27 thru Dec 24th DAY(S)/TIME(S): Sunday-Saturday 9am - 9pm

LOCATION (CHECK ONE): 297 Lincoln av

- New - Fixed Location
- Renewal - Fixed Location
- Seasonal - Fixed Location
- New - Mobile Cart
- Renewal - Mobile Cart

IF FIXED LOCATION, SELECT ONE BOX:

- Bradford Common
- GAR Park
- Other: _____
- Outside Haverhill Stadium @ Lincoln/Nettleton Ave
- Riverside Park
- Swasey Park
- Washington Square
- Winnekenni Area, Route 110

Fee: \$ 200.00
Bond on File

Department Use ONLY

<u>[Signature]</u> Police Chief	<u>10/2/15</u> Date	_____ Health Inspector	_____ Date
_____ Wire Inspector	_____ Date	_____ Rec Director (Stadium Only)	_____ Date

In Municipal Council, _____

Attest: _____, City Clerk

Please Complete the Back side of this form.



Document

CITY OF HAVERHILL

In Municipal Council

16.1

Ordered:

That the sum of \$10,000 be transferred from the Capital Projects account to the following Capital Accounts:

Flooring City Hall	\$10,000
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JAMES J. FIORENTINI
MAYOR

CITY OF HAVERHILL
MASSACHUSETTS

CITY HALL, ROOM 100
FOUR SUMMER STREET
HAVERHILL, MA 01830
PHONE 978-374-2300
FAX 978-373-7544
MAYOR@CITYOFHAVERHILL.COM
WWW.CI.HAVERHILL.MA.US

October 8, 2015

City Council President John A. Michitson and
Members of the Haverhill City Council

RE: Transfer of Funds from Capital Projects Account to Capital Accounts

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

Enclosed please find 4 transfer orders, \$60,000 for the city hall retaining wall engineering design, \$55,000 for the city hall paint and repair eves, \$10,000 for the city hall flooring, \$125,000 for the purchase of the new section of the rail trail on the other side of the Basiliere Bridge. This is a transfer from the FY16 Capital Projects Account.

The orders are attached and I recommend approval. If there are any questions, please do not hesitate to call either me.

Very truly yours,

James J. Fiorentini, Mayor

JJF/dsvd



Document

16.2

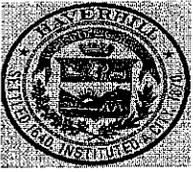
CITY OF HAVERHILL

In Municipal Council

Ordered:

That the sum of \$125,000 be transferred from the Capital Projects account to the following Capital Accounts:

Rail Trail	\$125,000
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Document

CITY OF HAVERHILL

In Municipal Council

16.3

Ordered:

That the sum of \$60,000 be transferred from the Capital Projects account to the following Capital Accounts:

Retaining Wall City Hall	\$60,000
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Document

16.4

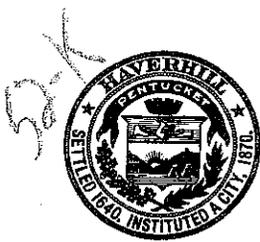
CITY OF HAVERHILL

In Municipal Council

Ordered:

That the sum of \$55,000 be transferred from the Capital Projects account to the following Capital Accounts:

Paint and Repair Eves City Hall	\$55,000
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DOCUMENT 52-K

18.1

CITY OF HAVERHILL

In Municipal Council September 29 2015

~~ORDINANCE~~ MUNICIPAL ORDINANCE

CHAPTER 240

An Ordinance Relating to Parking (491 Washington Street, Apartment #1—Add Handicap Parking)

BE IT ORDAINED by the City Council of the City of Haverhill that Article XIII, Section 240-Section 85, Schedule B: Parking Restrictions and Prohibitions of the Haverhill City Code, as amended be further amended by adding the following:

LOCATION	REGULATION	<u>HOURS/DAYS</u>
Washington Street. In front of No. 491 except for 1-24 hour handicapped parking space at #491 Washington St.	No Parking	24 Hours

APPROVED as to legality:

City Solicitor

PLACED ON FILE for at least 10 days
Attest:

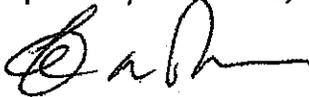
City Clerk

To: Chief Denaro
From: Officer Powell
Date: August 11, 2015
RE: Handicap Parking sign application

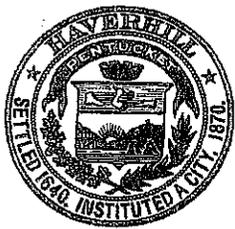
Sir,

I have spoken with Lynn M. Delafuente of 491 Washington St. apt. 1 in regards to her application for a handicap parking sign. I also inspected the location. At this time it appears that she meets all the requirements for a handicap sign and I would recommend that a sign be placed at the location.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'L. Powell', written in a cursive style.

Officer L. Powell #8



Haverhill

Economic Development and Planning
Phone: 978-374-2330 Fax: 978-374-2315
wpillsbury@cityofhaverhill.com

September 21, 2015

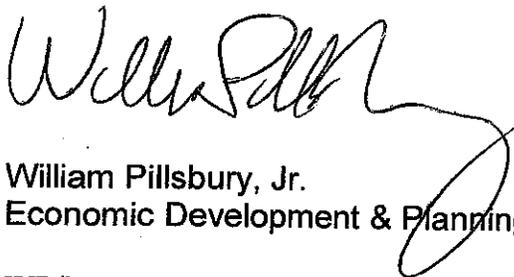
John A. Michitson, Council President
& City Council Members
City Hall—Room 204
City of Haverhill

RE: 491 Washington Street Apt 1—REQUEST TO ADD A HANDICAP PARKING SPACE

Dear Council President Michitson & Councilors:

As per the attached request dated 8/27/15 and the request from Police Chief DeNaro dated 6/22/15, I am submitting a Municipal Ordinance to ADD a handicapped parking space at the location of 491 Washington Street, Apt. 1.

Sincerely,



William Pillsbury, Jr.
Economic Development & Planning Director

WP/lw



DOCUMENT 52-L

18.2

CITY OF HAVERHILL

In Municipal Council September 29 2015

~~ORDERED~~ MUNICIPAL ORDINANCE

CHAPTER 240

An Ordinance Relating to Parking (48 Wilson Street—Add Handicap Parking)

BE IT ORDAINED by the City Council of the City of Haverhill that Article XIII, Section 240-Section 85, Schedule B: Parking Restrictions and Prohibitions of the Haverhill City Code, as amended be further amended by adding the following:

LOCATION	REGULATION	<u>HOURS/DAYS</u>
Wilson Street. In front of No. 48 except for 1-24 hour handicapped parking space at #48 Wilson Street	No Parking	24 Hours

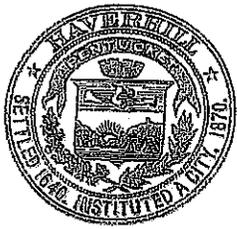
APPROVED as to legality:

City Solicitor

PLACED ON FILE for at least 10 days.

Attest:

City Clerk



Haverhill

Economic Development and Planning
Phone: 978-374-2330 Fax: 978-374-2315
wpillsbury@cityofhaverhill.com

September 21, 2015

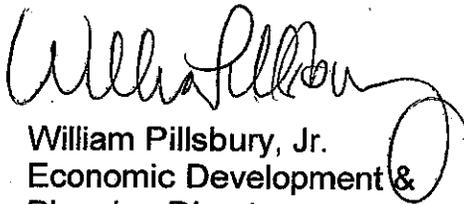
John A. Michitson, Council President
& City Council Members
City Hall—Room 204
City of Haverhill

**RE: REQUEST TO ESTABLISH A HANDICAP PARKING SPACE AT
48 Wilson Street**

Dear Council President Michitson & City Councilors:

As per your request dated 8-27-15 and the request attached from Police Chief Alan DeNaro dated 7/15/15, I am submitting a Municipal Ordinance to add one handicap space at 48 Wilson Street.

Sincerely,


William Pillsbury, Jr.
Economic Development &
Planning Director

Wp/lw

To: Chief Denaro

From: Officer Powell

Date: August 11, 2015

RE: Handicap Parking sign application

Sir,

I have spoken with Fawn Gale of 48 Wilson St. in regards to her application for a handicap parking sign. I also inspected the location. At this time it appears that she meets all the requirements for a handicap sign and I would recommend that a sign be placed at the location.

Respectfully Submitted,



Officer L. Powell #8

52-M

18.3



DOCUMENT 52-M

CITY OF HAVERHILL

In Municipal Council September 29 2015

~~ORDINANCE~~ MUNICIPAL ORDINANCE

CHAPTER 240

An Ordinance Relating to Parking (10 Church Street—Handicap Parking Add 2 Spaces)

BE IT ORDAINED by the City Council of the City of Haverhill that Article XIII, Section 240-1302 Schedule B: Parking Restrictions and Prohibitions of the Haverhill City Code, as amended be further amended by adding the following:

LOCATION	REGULATION	HOURS/DAYS
In front of No. 10 Church St. except for 2-24 hour handicapped parking spaces at #10 Church Street	No Parking	24 Hours

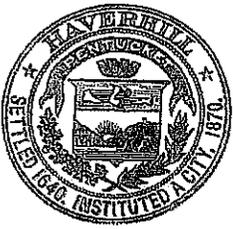
APPROVED as to legality:

City Solicitor

PLACED ON FILE for at least 10 days

Attest:

City Clerk



Haverhill

Economic Development and Planning
Phone: 978-374-2330 Fax: 978-374-2315
wpillsbury@cityofhaverhill.com

September 21, 2015

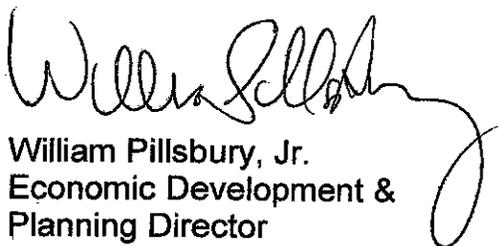
John A. Michitson, Council President
& City Council Members
City Hall—Room 204
City of Haverhill

**RE: REQUEST TO ESTABLISH A HANDICAP PARKING SPACE AT 10
Church Street, First Church of Christ (2 Spaces) 12-11-14**

Dear Council President Michitson & City Councilors:

As per the attached request from Police Chief Alan DeNaro dated 6/19/15 and your request dated 8/27/15, I am submitting a Municipal Ordinance to add two handicap spaces at 10 Church Street.

Sincerely,



William Pillsbury, Jr.
Economic Development &
Planning Director

Wp/lw

To: Chief Denaro

From: Officer Powell

Date: August 11, 2015

RE: Handicap Parking sign application

Sir,

I have spoken with representatives at the First Church of Christ located at 10 Church St. in regards to her application for a handicap parking signs. He advised me that they have several handicapped members. I also inspected the location. At this time I would recommend that a sign(s) be placed at the location.

Respectfully Submitted,



Officer L. Powell #8

The First Church of Christ, Bradford

10 Church Street
Bradford, Massachusetts 01835
978-374-1114
office@fccbradford.org



December 11, 2014

Dear Chief of Police:

The First Church of Christ, Bradford is currently requesting to have two spaces designated as "Handicap Parking" in front of the church facility near the ramp. We have several parishioners who are quite elderly and some who are challenged by physical limitations. Our facility is used for weekly worship services and often for funerals, weddings, and other events. Having two designated "Handicap Parking" spaces on Church Street will allow easier accessibility for those folks who need this service.

Thank You!! in advance for your understanding of this request.

Very truly yours,

Martha Kelleher, Moderator of The First Church of Christ, Bradford

18.4

CITY OF HAVERHILL

In Municipal Council September 29 2015



Ordered:

that \$2,500,000 is appropriated to pay costs of energy efficiency improvements to various City school facilities, and for the payment of all other costs incidental or related thereto; that to meet this appropriation the Treasurer with the approval of the Mayor is authorized to borrow \$2,500,000 under G.L. c.44, s.7(3B) or any other enabling authority; that the Mayor is authorized to contract for and expend any federal or state aid or energy rebates or similar payments available for the project; that the Mayor is authorized to take any other action necessary or convenient to carry out these projects; and that the Treasurer is authorized to file an application to qualify under G.L. c.44A any or all of the bonds and to provide such information and execute such documents as may be required for these purposes.

PLACED ON FILE for at least 10 days

Attest:

City Clerk

*Bond order
file 10 days*

City of Haverhill

Project Selection Sheet



Measure Number	City/School	Building	ECM Description	Measure Costs	OG&M Savings	Energy Savings	Total Savings	Rebates	Simple Payback (Years)	Includes? (1=yes)
1	S	Brad	Lighting System Improvements	\$ 21,103	\$ 349	\$ 1,741	\$ 2,089	\$ 4,200	8.09	1
1	S	Const	Lighting System Improvements	\$ 82,872	\$ 1,083	\$ 4,705	\$ 5,788	\$ 2,600	13.87	1
1	S	Golden	Lighting System Improvements	\$ 21,103	\$ 388	\$ 1,987	\$ 2,375	\$ 4,200	7.12	1
1	S	HS	Lighting System Improvements	\$ 155,491	\$ 1,954	\$ 8,888	\$ 10,841	\$ 5,650	13.82	1
1	S	Moody	Lighting System Improvements	\$ 7,580	\$ 78	\$ 473	\$ 551	\$ -	13.77	1
1	S	Nettle	Lighting System Improvements	\$ 97,413	\$ 1,673	\$ 7,851	\$ 9,523	\$ 9,330	9.25	1
1	S	Pentac	Lighting System Improvements	\$ 49,630	\$ 859	\$ 4,006	\$ 4,865	\$ 5,800	9.01	1
1	S	Silver	Lighting System Improvements	\$ 21,103	\$ 448	\$ 2,216	\$ 2,664	\$ 4,200	6.35	1
1	S	Whittier	Lighting System Improvements	\$ 18,020	\$ 114	\$ 497	\$ 611	\$ 150	29.23	1
2	S	Nettle	Lighting Controls	\$ 27,686	\$ -	\$ -	\$ 2,307	\$ 6,120	9.35	1
3	S	Brad	Energy Management System Upgrades	\$ 83,847	\$ -	\$ 4,294	\$ 4,294	\$ -	19.53	1
3	S	Const	Energy Management System Upgrades	\$ 386,135	\$ -	\$ 14,751	\$ 14,751	\$ 22,950	24.62	1
3	S	Golden	Energy Management System Upgrades	\$ 185,353	\$ -	\$ 20,933	\$ 20,933	\$ -	8.85	1
3	S	HS	Energy Management System Upgrades	\$ 50,062	\$ -	\$ 25,972	\$ 25,972	\$ -	1.93	1
3	S	Moody	Energy Management System Upgrades	\$ 63,039	\$ -	\$ 7,202	\$ 7,202	\$ 3,600	8.25	1
3	S	Nettle	Energy Management System Upgrades	\$ 128,150	\$ -	\$ 36,243	\$ 36,243	\$ -	3.54	1
3	S	Pentac	Energy Management System Upgrades	\$ 78,011	\$ -	\$ 4,288	\$ 4,288	\$ -	18.15	1
3	S	Silver	Energy Management System Upgrades	\$ 185,046	\$ -	\$ 25,797	\$ 25,797	\$ -	7.17	1
3	S	Tilton	Energy Management System Upgrades	\$ 57,280	\$ -	\$ 11,635	\$ 11,635	\$ 4,725	4.52	1
3	S	Walnut	Energy Management System Upgrades	\$ 44,688	\$ -	\$ 5,815	\$ 5,815	\$ 2,475	7.26	1
3	S	Whittier	Energy Management System Upgrades	\$ 205,755	\$ -	\$ 19,772	\$ 19,772	\$ 9,450	9.93	1
5	S	Tilton	Steam Trap Replacement	\$ 17,879	\$ -	\$ 3,850	\$ 3,850	\$ 3,100	3.84	1
5	S	Walnut	Steam Trap Replacement	\$ 4,402	\$ -	\$ 264	\$ 264	\$ 125	16.17	1
5	S	Whittier	Steam Trap Replacement	\$ 94,559	\$ -	\$ 5,461	\$ 5,461	\$ 2,275	16.90	1
7	S	Brad	Infiltration Reduction	\$ 9,793	\$ -	\$ 730	\$ 730	\$ -	13.42	1
7	S	Const	Infiltration Reduction	\$ 35,653	\$ -	\$ 2,903	\$ 2,903	\$ -	12.28	1
7	S	Golden	Infiltration Reduction	\$ 9,793	\$ -	\$ 732	\$ 732	\$ -	13.38	1
7	S	Moody	Infiltration Reduction	\$ 2,626	\$ -	\$ 319	\$ 319	\$ -	8.24	1
7	S	Pentac	Infiltration Reduction	\$ 9,793	\$ -	\$ 742	\$ 742	\$ -	13.20	1
7	S	Silver	Infiltration Reduction	\$ 9,793	\$ -	\$ 752	\$ 752	\$ -	13.02	1
7	S	Tilton	Infiltration Reduction	\$ 24,245	\$ -	\$ 2,003	\$ 2,003	\$ -	12.10	1
7	S	Whittier	Infiltration Reduction	\$ 44,510	\$ -	\$ 5,045	\$ 5,045	\$ -	8.82	1
9	S	HS	Demand Control Ventilation	\$ 10,706	\$ -	\$ 2,064	\$ 2,064	\$ -	5.19	1
11	S	Brad	Vending Miser	\$ 1,308	\$ -	\$ 606	\$ 606	\$ 180	1.86	1
11	S	Const	Vending Miser	\$ 444	\$ -	\$ 236	\$ 236	\$ 75	1.57	1
11	S	Golden	Vending Miser	\$ 888	\$ -	\$ 526	\$ 526	\$ 150	1.40	1
11	S	HS	Vending Miser	\$ 1,776	\$ -	\$ 1,070	\$ 1,070	\$ 300	1.38	1
11	S	Nettle	Vending Miser	\$ 444	\$ -	\$ 251	\$ 251	\$ 75	1.47	1
11	S	Pentac	Vending Miser	\$ 888	\$ -	\$ 532	\$ 532	\$ 150	1.39	1
11	S	Silver	Vending Miser	\$ 888	\$ -	\$ 537	\$ 537	\$ 150	1.37	1
11	S	Tilton	Vending Miser	\$ 444	\$ -	\$ 369	\$ 369	\$ 75	1.00	1
14	S	HS	Pool Cover	\$ 98,025	\$ -	\$ 9,491	\$ 9,491	\$ -	9.80	1
16	S	Brad	PC Load Management	\$ 2,947	\$ -	\$ 939	\$ 939	\$ -	3.14	1
16	S	Const	PC Load Management	\$ 3,875	\$ -	\$ 1,300	\$ 1,300	\$ -	2.98	1
16	S	Golden	PC Load Management	\$ 2,874	\$ -	\$ 921	\$ 921	\$ -	3.12	1
16	S	HS	PC Load Management	\$ 7,188	\$ -	\$ 3,060	\$ 3,060	\$ -	2.36	1
16	S	Moody	PC Load Management	\$ 1,910	\$ -	\$ 547	\$ 547	\$ -	3.49	1
16	S	Nettle	PC Load Management	\$ 3,821	\$ -	\$ 1,360	\$ 1,360	\$ -	2.81	1
16	S	Pentac	PC Load Management	\$ 2,838	\$ -	\$ 913	\$ 913	\$ -	3.11	1
16	S	Silver	PC Load Management	\$ 2,201	\$ -	\$ 571	\$ 571	\$ -	3.85	1

City of Haverhill

Project Selection Sheet

Measure Number	City/School	Building	ECM Description	Measure Costs	O&M Savings	Energy Savings	Total Savings	Rebates	Simple Payback (years)	Include? (1=Yes)
16	S	Tilton	PC Load Management	\$ 2,692	\$ -	\$ 1,141	\$ 1,141	\$ -	2.36	1
16	S	Walnut	PC Load Management	\$ 782	\$ -	\$ 139	\$ 139	\$ -	5.61	1
16	S	Whittier	PC Load Management	\$ 3,184	\$ -	\$ 944	\$ 944	\$ -	3.37	1
18	S	Tilton	Thermostatic Radiator Valves	\$ 90,600	\$ -	\$ 1,000	\$ 1,000	\$ -	90.56	1
18	S	Walnut	Thermostatic Radiator Valves	\$ 7,001	\$ -	\$ 613	\$ 613	\$ -	11.43	1
Total Selected				\$ 2,475,138	\$ 6,945	\$ 268,314	\$ 270,259	\$ 92,105	8.82	65 measures

Project Term (years)	15
Assumed rebates	\$ 92,105
Upfront Capital Contribution	\$ -
Customer Clerk of the Works Allowance	\$ -
Upfront Capital Contribution and Rebates	\$ (75,000)

(enter an integer between 10 and 20)

(If customer elects to contribute capital instead of construction financing)

Annual Contribution	\$ -
----------------------------	------

Risk Scenario	
----------------------	--

(push button after selecting deal in column E)

Output	Value
Synchronized?	OK
Selected deal work?	Yes
Year 1 Net Cash Flow - Level Payments	\$38,664
Year 1 Net Cash Flow - Escalating Payments	\$35,368
Total Financed Amount (including CPI, net of contribution/rebate)	\$2,608,537
Construction Period Interest	\$78,256
Project Capital Cost	\$2,475,138
Investment Grade Audit Fee	\$55,143
Total Project Size	\$2,530,281
Total Savings Over Term	\$4,053,891
Total Costs Over Term	\$3,527,920
Assumed Finance Rate	3.00%
Assumed Construction Period Financing	3.00%
Electric Escalation - City Buildings	0.00%
Electric Escalation - School Buildings	0.00%
Gas Escalation	0.00%
Other Escalation	0.00%
Finance Term	15

Summary	
Total Project Costs	\$ 2,475,138
Total Project Savings	\$ 270,259
School Costs	\$ 2,475,138
School Savings	\$ 270,259
Simple Payback	9.6
City Costs	\$ -
City Savings	\$ -
Simple Payback	#DIV/0!

Project Pro-Forma

Level Debt Service

Initial Project Costs:	
Investment Grade Audit Fee	\$ 55,143
Implementation costs	\$ 2,475,138
Total Initial Project Costs	\$ 2,530,281
Rebates:	\$ 92,105
Customer contributions / Unassigned Rebates	\$
Customer Clerk of the Works Allowance	\$ (75,000)
Net Project Costs after rebates:	\$ 2,613,176

Financial Assumptions:	
Term of Project (yrs)	15.0 yrs
Term of Financing (yrs)	15.0 yrs
Estimated Financing Rate	3.00%
Payments per year (frequency)	4
Discount Rate	3.00%
Project Simple Payback	9.30

Pro-Forma	Year																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
3 Annual energy cost savings (1-2)	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314
4a O&M Savings	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945
4b Avoided Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5 Total Project Savings	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259
6 Payments for financing equipment	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596
7 Payments for Ongoing Services	\$ 15,000	\$ 15,450	\$ 15,914	\$ 16,381	\$ 16,853	\$ 17,329	\$ 17,811	\$ 18,299	\$ 18,791	\$ 19,288	\$ 19,791	\$ 20,299	\$ 20,811	\$ 21,329	\$ 21,853	\$ 22,381	\$ 22,914	\$ 23,453	\$ 23,997	\$ 24,546	\$ 25,100
7a Payments for Maintenance Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 Net annual benefits	\$ 38,664	\$ 38,214	\$ 37,750	\$ 37,273	\$ 36,781	\$ 36,275	\$ 35,753	\$ 35,216	\$ 34,662	\$ 34,092	\$ 33,505	\$ 32,900	\$ 32,277	\$ 31,636	\$ 30,975	\$ 30,295	\$ 29,595	\$ 28,885	\$ 28,165	\$ 27,435	\$ 26,695
9 Cumulative cash flow	\$ 38,664	\$ 76,877	\$ 114,627	\$ 151,900	\$ 188,681	\$ 224,956	\$ 260,709	\$ 295,924	\$ 330,586	\$ 364,678	\$ 398,183	\$ 431,084	\$ 463,361	\$ 494,996	\$ 525,971	\$ 556,286	\$ 586,151	\$ 615,566	\$ 644,531	\$ 673,046	\$ 701,111
10 Net Present Value of cash flow	\$ 525,971	\$ 422,187	\$ 322,187	\$ 222,187	\$ 122,187	\$ 22,187	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11 Interest Rate	3.00%																				
12 Discount Rate	3.00%																				

Line #	11	12	13	14	15	16	17	18	19	20	Grads
3	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 3,949,716
4a	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 104,176
4b	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 4,053,891
6	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 216,596	\$ 3,248,936
7	\$ 20,159	\$ 20,764	\$ 21,366	\$ 22,028	\$ 22,689	\$ 23,351	\$ 24,013	\$ 24,675	\$ 25,337	\$ 26,000	\$ 278,984
7a	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	\$ 33,505	\$ 32,900	\$ 32,277	\$ 31,636	\$ 30,975	\$ 30,295	\$ 29,595	\$ 28,885	\$ 28,165	\$ 27,435	\$ 825,971
9	\$ 398,183	\$ 431,084	\$ 463,361	\$ 494,996	\$ 525,971	\$ 556,286	\$ 586,151	\$ 615,566	\$ 644,531	\$ 673,046	\$ 525,971
10											
11											
12											

Notes:
 1 This Proforma Cash Flow reflects an estimated tax exempt lease rate of 3%. The actual rate will increase or decrease based on market conditions and customer credit rating at the time of lease funding.
 2 Savings are based on current utility rate structures and usage information provided for purposes of this project.

City of Haverhill, Massachusetts
\$2,500,000 General Obligation ESCO Bonds
Level Debt
Interest Estimated, Subject to Change

Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
09/15/2015	-	-	-	-	-
03/15/2016	-	-	34,375.00	34,375.00	-
06/30/2016	-	-	-	-	34,375.00
09/15/2016	135,000.00	2.750%	34,375.00	169,375.00	-
03/15/2017	-	-	32,518.75	32,518.75	-
06/30/2017	-	-	-	-	201,893.75
09/15/2017	140,000.00	2.750%	32,518.75	172,518.75	-
03/15/2018	-	-	30,593.75	30,593.75	-
06/30/2018	-	-	-	-	203,112.50
09/15/2018	145,000.00	2.750%	30,593.75	175,593.75	-
03/15/2019	-	-	28,600.00	28,600.00	-
06/30/2019	-	-	-	-	204,193.75
09/15/2019	150,000.00	2.750%	28,600.00	178,600.00	-
03/15/2020	-	-	26,537.50	26,537.50	-
06/30/2020	-	-	-	-	205,137.50
09/15/2020	155,000.00	2.750%	26,537.50	181,537.50	-
03/15/2021	-	-	24,406.25	24,406.25	-
06/30/2021	-	-	-	-	205,943.75
09/15/2021	155,000.00	2.750%	24,406.25	179,406.25	-
03/15/2022	-	-	22,275.00	22,275.00	-
06/30/2022	-	-	-	-	201,681.25
09/15/2022	160,000.00	2.750%	22,275.00	182,275.00	-
03/15/2023	-	-	20,075.00	20,075.00	-
06/30/2023	-	-	-	-	202,350.00
09/15/2023	165,000.00	2.750%	20,075.00	185,075.00	-
03/15/2024	-	-	17,806.25	17,806.25	-
06/30/2024	-	-	-	-	202,881.25
09/15/2024	170,000.00	2.750%	17,806.25	187,806.25	-
03/15/2025	-	-	15,468.75	15,468.75	-
06/30/2025	-	-	-	-	203,275.00
09/15/2025	175,000.00	2.750%	15,468.75	190,468.75	-
03/15/2026	-	-	13,062.50	13,062.50	-
06/30/2026	-	-	-	-	203,531.25
09/15/2026	180,000.00	2.750%	13,062.50	193,062.50	-
03/15/2027	-	-	10,587.50	10,587.50	-
06/30/2027	-	-	-	-	203,650.00
09/15/2027	185,000.00	2.750%	10,587.50	195,587.50	-
03/15/2028	-	-	8,043.75	8,043.75	-
06/30/2028	-	-	-	-	203,631.25
09/15/2028	190,000.00	2.750%	8,043.75	198,043.75	-
03/15/2029	-	-	5,431.25	5,431.25	-
06/30/2029	-	-	-	-	203,475.00
09/15/2029	195,000.00	2.750%	5,431.25	200,431.25	-
03/15/2030	-	-	2,750.00	2,750.00	-
06/30/2030	-	-	-	-	203,181.25
09/15/2030	200,000.00	2.750%	2,750.00	202,750.00	-
06/30/2031	-	-	-	-	202,750.00
Total	\$2,500,000.00	-	\$585,062.50	\$3,085,062.50	-

Yield Statistics

Bond Year Dollars.....	\$21,275.00
Average Life.....	8.510 Years
Average Coupon.....	2.7500000%
Net Interest Cost (NIC).....	2.7500000%
True Interest Cost (TIC).....	2.7500000%
Bond Yield for Arbitrage Purposes.....	2.7500000%
All Inclusive Cost (AIC).....	2.7500000%

IRS Form 8038

Net Interest Cost.....	2.7500000%
Weighted Average Maturity.....	8.510 Years

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City of Haverhill, Massachusetts
\$2,500,000 General Obligation ESCO Bonds
 Equal Principal
 Interest Estimated, Subject to Change

Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
09/15/2015	-	-	-	-	-
03/15/2016	-	-	34,375.00	34,375.00	-
06/30/2016	-	-	-	-	34,375.00
09/15/2016	170,000.00	2.750%	34,375.00	204,375.00	-
03/15/2017	-	-	32,037.50	32,037.50	-
06/30/2017	-	-	-	-	236,412.50
09/15/2017	170,000.00	2.750%	32,037.50	202,037.50	-
03/15/2018	-	-	29,700.00	29,700.00	-
06/30/2018	-	-	-	-	231,737.50
09/15/2018	170,000.00	2.750%	29,700.00	199,700.00	-
03/15/2019	-	-	27,362.50	27,362.50	-
06/30/2019	-	-	-	-	227,062.50
09/15/2019	170,000.00	2.750%	27,362.50	197,362.50	-
03/15/2020	-	-	25,025.00	25,025.00	-
06/30/2020	-	-	-	-	222,387.50
09/15/2020	170,000.00	2.750%	25,025.00	195,025.00	-
03/15/2021	-	-	22,687.50	22,687.50	-
06/30/2021	-	-	-	-	217,712.50
09/15/2021	165,000.00	2.750%	22,687.50	187,687.50	-
03/15/2022	-	-	20,418.75	20,418.75	-
06/30/2022	-	-	-	-	208,106.25
09/15/2022	165,000.00	2.750%	20,418.75	185,418.75	-
03/15/2023	-	-	18,150.00	18,150.00	-
06/30/2023	-	-	-	-	203,568.75
09/15/2023	165,000.00	2.750%	18,150.00	183,150.00	-
03/15/2024	-	-	15,881.25	15,881.25	-
06/30/2024	-	-	-	-	199,031.25
09/15/2024	165,000.00	2.750%	15,881.25	180,881.25	-
03/15/2025	-	-	13,612.50	13,612.50	-
06/30/2025	-	-	-	-	194,493.75
09/15/2025	165,000.00	2.750%	13,612.50	178,612.50	-
03/15/2026	-	-	11,343.75	11,343.75	-
06/30/2026	-	-	-	-	189,956.25
09/15/2026	165,000.00	2.750%	11,343.75	176,343.75	-
03/15/2027	-	-	9,075.00	9,075.00	-
06/30/2027	-	-	-	-	185,418.75
09/15/2027	165,000.00	2.750%	9,075.00	174,075.00	-
03/15/2028	-	-	6,806.25	6,806.25	-
06/30/2028	-	-	-	-	180,881.25
09/15/2028	165,000.00	2.750%	6,806.25	171,806.25	-
03/15/2029	-	-	4,537.50	4,537.50	-
06/30/2029	-	-	-	-	176,343.75
09/15/2029	165,000.00	2.750%	4,537.50	169,537.50	-
03/15/2030	-	-	2,268.75	2,268.75	-
06/30/2030	-	-	-	-	171,806.25
09/15/2030	165,000.00	2.750%	2,268.75	167,268.75	-
06/30/2031	-	-	-	-	167,268.75
Total	\$2,500,000.00	-	\$546,562.50	\$3,046,562.50	-

Yield Statistics

Bond Year Dollars.....	\$19,875.00
Average Life.....	7.950 Years
Average Coupon.....	2.7500000%
Net Interest Cost (NIC).....	2.7500000%
True Interest Cost (TIC).....	2.7500000%
Bond Yield for Arbitrage Purposes.....	2.7500000%
All Inclusive Cost (AIC).....	2.7500000%

IRS Form 8038

Net Interest Cost.....	2.7500000%
Weighted Average Maturity.....	7.950 Years

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Project Pro-Forma

Escalating Debt Service

Initial Project Costs:	
Investment Grade Audit Fee	\$ 55,143
Implementation costs	\$ 2,475,138
Total Initial Project Costs	\$ 2,530,281
Rebates	\$ 92,105
Customer contributions / Unassigned Rebates	\$ -
Customer Clerk of the Works Allowance	\$ (75,000)
Net Project Costs after rebates	\$ 2,513,176

Financial Assumptions	
Term of Project (yrs)	15.0 yrs
Term of Financing (yr)	15.0 yrs
Estimated Financing Rate	3.00%
Payments per year (frequency)	4
Discount Rate	3.00%
Project Simple Payback	9.30

Pro-forma	Year																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
3 Annual energy cost savings (1-2)	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314
4a O&M Savings	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945
4b Avoided Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5 Total Project Savings	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259
6 Payments for financing equipment	\$ 219,891	\$ 219,441	\$ 218,977	\$ 218,500	\$ 218,008	\$ 217,502	\$ 216,980	\$ 216,443	\$ 215,889	\$ 215,319	\$ 214,732	\$ 214,127	\$ 213,505	\$ 212,863	\$ 212,202	\$ 211,522	\$ 210,822	\$ 209,100	\$ 208,368	\$ 207,625	\$ 206,871
7 Payments for Ongoing Services	\$ 15,000	\$ 15,450	\$ 15,914	\$ 16,391	\$ 16,883	\$ 17,389	\$ 17,911	\$ 18,448	\$ 19,002	\$ 19,572	\$ 20,158	\$ 20,760	\$ 21,378	\$ 22,012	\$ 22,662	\$ 23,328	\$ 24,010	\$ 24,708	\$ 25,422	\$ 26,152	\$ 26,898
7a Payments for Maintenance Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 Net annual benefits	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368
9 Cumulative cash flow	\$ 530,527	\$ 70,737	\$ 106,105	\$ 141,474	\$ 176,842	\$ 212,211	\$ 247,579	\$ 282,948	\$ 318,316	\$ 353,685	\$ 389,053	\$ 424,421	\$ 459,790	\$ 495,158	\$ 530,527	\$ 565,895	\$ 601,263	\$ 636,631	\$ 672,000	\$ 707,368	\$ 742,736
10 Net Present Value of cash flow	\$ 422,226																				
11 Interest Rate	3.00%																				
12 Discount Rate	3.00%																				

Line #	11	12	13	14	15	16	17	18	19	20
3	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314	\$ 263,314
4a	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945	\$ 6,945
4b	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259	\$ 270,259
6	\$ 214,732	\$ 214,127	\$ 213,505	\$ 212,863	\$ 212,202	\$ 211,522	\$ 210,822	\$ 209,100	\$ 208,368	\$ 207,625
7	\$ 20,159	\$ 20,764	\$ 21,386	\$ 22,022	\$ 22,682	\$ 23,358	\$ 24,050	\$ 24,758	\$ 25,482	\$ 26,222
7a	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368	\$ 35,368
9	\$ 389,053	\$ 424,421	\$ 459,790	\$ 495,158	\$ 530,527	\$ 565,895	\$ 601,263	\$ 636,631	\$ 672,000	\$ 707,368
10										
11										
12										
Totals										

Notes:
 1 This Proforma Cash Flow reflects an estimated tax exempt lease rate of 3%. The actual rate will increase or decrease based on market conditions and customer credit rating at the time of lease funding.
 2 Savings are based on current utility rate structures and usage information provided for purposes of this project.

Ameresco
City of Haverhill
Emissions Calculations

Version 2.03

Electricity Saved **552,817 kWh**
 Natural Gas Saved **137,151 Therms**
 Gallons of No 2 Fuel Oil **2,646 Gallons**
 Gallons of No 6 Fuel Oil **0 Gallons**
 Gallons of LP Gas **0 Gallons**
 Tons of Coal **0 Tons** Anthracite
 Tons of Biomass (Wood Chips) **0 Tons**
 Location of Project (State) **Massachusetts**

		CO2	SO2
Electric Emission Factors	#/kWh	1.314	0.003758
Natural Gas Emission Factors	#/Therm	12	0.0001
No 2 Fuel Oil Emissions	#/Gal	22	1.014
No 6 Fuel Oil Emissions	#/Gal	25	0.157
Diesel Emissions	#/Gal	25	0.150
Coal Emissions (Anthracite)	##	2.84	0.011
Coal Emissions (Bitumous)	##	2.47	0.002
Biomass (Wood Chips)	##	1.56	0.002

State-Level Average All (Total) Generation Electricity Emission Factors w/ Transmission & Distribution Line Loss Factor = 7.2%
 U.S. DOE / EIA 1605(b) Voluntary Reporting of Greenhouse Gases Appendix G. Adjusted Electricity, m Emission Factors by State, February, 2005
 U.S. DOE / EIA 1605(b) Voluntary Reporting of Greenhouse Gases Appendix F. Fuel and Energy Source, Codes and Emission Coefficients, February, 2005

	Electricity	Nat. Gas	No 2 Oil	Total	
Total CO2 Reduced:	726,401	1,605,763	56,887	2,389,051	Pounds
Total SO2 Reduced:	2,077	8	2,683	4,769	Pounds
Total NOx Reduced:	780	2,057	341	3,179	Pounds
Total Energy Saved	803	(13,982)	14,907	1,729	MMBTU
Total Mercury Reduced	1.22	-	-	1.22	mg

Cars Removed From the Road **198**
OR
 Houses Powered Each Year **150**
OR
 Acres of pine or fir forests storing carbon for one year **246**
 Total energy saved **1,729**

Calculations based on EPA values from <http://www.epa.gov/cleanenergy/energy-resources/refs.html>

JAMES J. FIORENTINI
MAYOR



CITY OF HAVERHILL
MASSACHUSETTS

CITY HALL, ROOM 100
FOUR SUMMER STREET
HAVERHILL, MA 01830
PHONE 978-374-2300
FAX 978-373-7544
MAYOR@CITYOFHAVERHILL.CO
WWW.CI.HAVERHILL.MA.US

September 25, 2015

City Council President John A. Michitson and
Members of the Haverhill City Council

RE: Bond Order

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

Attached is a request to authorize the Treasurer to borrow up to \$2.5M for the purposes of implementing energy conservation measures at 11 Haverhill school facilities. I have attached a breakdown of the overall ESCO project for the City Council to review in conjunction with this request. The MOU approved by the School Committee states that the School Department will pay the principal with the debt related to this order through the savings generated by the implementation of the energy conservation measures. The City will be responsible for appropriating the interest portion only. We estimate the interest to be about \$30,000 per year. Based on the initial proforma, the ESCO will generate a savings of up to \$270,000 annually.

I recommend approval.

Very truly yours,

James J. Fiorentini, Mayor

JJF/ah

118-B

18.5



DOCUMENT 118-B

CITY OF HAVERHILL

In Municipal Council September 29 2015

~~ORDERED:XX~~

AN ORDINANCE RELATING TO VEHICLES AND TRAFFIC

BE IT ORDAINED by the City Council of the City of Haverhill that the Code of the City of Haverhill, Chapter 240, §85, Schedule B: Parking Restrictions and Prohibitions, as amended, is hereby further amended as follows:

Bryant Avenue:

Entire length, north side	No parking	24 hours
Entire length, south side	No parking	24 hours

APPROVED AS TO LEGALITY

City Solicitor

PLACED ON FILE for at least 10 days

Attest:

City Clerk



Haverhill

Engineering Department, Room 300
Tel: 978-374-2335 Fax: 978-373-8475
John H. Pettis III, P.E. - City Engineer
JPettis@CityOfHaverhill.com

September 23, 2015

**MEMO TO: CITY COUNCIL PRESIDENT JOHN MICHITSON AND
MEMBERS OF THE CITY COUNCIL**

Subject: *Bryant Avenue – Parking Restriction*

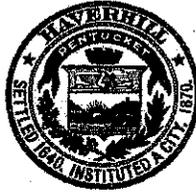
It is recommended that there be no parking on either side of this narrow public road.

Please contact me if you have any questions.

Sincerely,

John H. Pettis III, P.E.
City Engineer

C: Mayor Fiorentini, Stankovich, Ward, Cox, DeNaro



19.1

CITY OF HAVERHILL
ASSESSORS OFFICE – ROOM 115
Phone: 978-374-2316 Fax: 978-374-2319
Assessors@cityofhaverhill.com

Oct. 5, 2015

TO: MEMBERS OF THE HAVERHILL CITY COUNCIL:

In accordance with Municipal Ordinance, Chapter 7,
entitled "Assessor" as follows:

The Board of Assessors shall file monthly with the
City Council a copy of the report submitted to the
Auditor showing a summary of the above abated
amounts for that month.

Attached herewith is the report for the month of
September as filed in the Assessors Office.

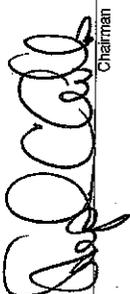
Very truly yours,

Stephen C. Gullo, MAA
Assessor

Sep-15

Day	2015 MVE	2014 MVE	2013 MVE	2015 REAL ESTATE	2014 REAL ESTATE	2013 REAL ESTATE	2015 BOAT	2015 P. P.	2014 PERSONAL PROP	2013 MVE CANCEL	2005 MVE UNCOL	2006 MVE UNCOL	2007 MVE UNCOL	2003 UNCL PERS. PROP.	1999 UNCL PERS. PROP.
1															
2															
3															
4															
5															
6															
7															
8	11363-\$5618.42	11354-\$851.37													
9															
10															
11															
12															
13															
14															
15	11496-\$3218.76	11427-\$703.12													
16															
17															
18															
19															
20															
21	11477-\$973.22														
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Refunds															
Rec. by															
Collector															
Totals	10,011.40	1,654.48													

To the Auditor of Accounts:
 This is to certify that abatements as shown above, amounting in the aggregate
 have been CANCELLATION ABATEMENT

ELEVEN THOUSAND SIX HUNDRED SIXTY FIVE DOLLARS & 69/100
 BOARD OF ASSESSORS,
 By  Chairman

201

CITY COUNCIL

JOHN A. MICHITSON
PRESIDENT
ROBERT H. SCATAMACCHIA
VICE PRESIDENT
MELINDA E. BARRETT
WILLIAM J. MACEK
WILLIAM H. RYAN
THOMAS J. SULLIVAN
MARY ELLEN DALY O'BRIEN
MICHAEL S. MCGONAGLE
COLIN F. LEPAGE



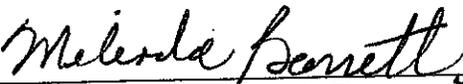
CITY HALL, ROOM 204
4 SUMMER STREET
TELEPHONE: 978 374-2328
FACSIMILE: 978 374-2329
www.ci.haverhill.ma.us
citycndl@cityofhaverhill.com

CITY OF HAVERHILL
HAVERHILL, MASSACHUSETTS 01830-5843

October 8, 2015

TO: Mr. President and Members of the City Council:

Councillor Melinda Barrett requests to discuss the influx of cut through and speeding traffic on Front Street.


City Councillor Melinda Barrett

CITY COUNCIL

JOHN A. MICHITSON
PRESIDENT
ROBERT H. SCATAMACCHIA
VICE PRESIDENT
MELINDA E. BARRETT
WILLIAM J. MACEK
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DOCUMENTS REFERRED TO COMMITTEE STUDY

4	Communication from Councillor Macek requesting a discussion regarding the proposed Monument Square traffic divider/island.	Planning & Dev.	1/3/12
102-H	Communication from Councillor Macek requesting to propose the establishment of an Adult and Senior Fitness Park	NRPP	10/29/13
55-E	Communication from Councillor Macek – necessary repairs on the Clement Farm property leased to American Legion	NRPP	6/17/14
55-F	Communication from Councillor Daly O'Brien re: Street noise increasing on Essex St. and Washington St. area	Public Safety	6/17/14
55-U	Communication from President Michitson requesting to address comprehensive vision, plan & process – critical information for City Council to determine needs/gaps, solutions and spending priorities for Haverhill	A & F	8/19/14
55-X	Communication from Councillor Sullivan regarding a Jr. Park Ranger Sumer Program	Public Safety	8/19/14
10-U	Communication from Councillor Macek requesting to discuss trash pick up for Hales Landing Development off of Old Groveland Rd.	NRPP	4/21/15
67	Ordinance re: Peddling and Soliciting – Amend City Code, Ch. 191, Article VII Food Trucks	A & F	5/26/15
74-Q	Communication from Councillor Macek requesting discussion re: exploring various Possibilities for “Expanded Notification” processes for certain matters re: Zoning Changes And Special Permit application.	A & F	7/14/15
14-R	Communication from Councillor Macek requesting to discuss the need for taxi pick up areas.	Public Safety	7/28/15
	Discussion about future planning for sewer hook-ups	Planning & Dev.	9/22/15
11-M	Communication from Mayor Fiorentini requesting City Council join with him in investigating Of taxicab rates to see if they need to be adjusted; this matter be sent to appropriate City Council committee	A & F	10/6/15