

Town of Newbury
Building Project Construction Committee Friday May 17, 2019
7:00A.M., at Town Hall

Please find the attached pdf of documents to be distributed at Friday's construction committee meeting. The following documents have been attached.

1. Public notice of meeting 5-17-19;
2. Agenda;
3. April 26, 2019 meeting summary draft pending committee review/approval;
4. BOS fee waiver letter dated 5-17-19;
5. CTX 4-26-19 meeting notes;
6. Public meeting notice regarding local approvals/permitting (Wednesday, June 12th joint hearing)
7. CTX landscape/planting plan with estimate/schedule of plantings;
8. Treasurer/collector request for funding needs thru 6-30-19;
9. CTX Site plan review Pre-Submission conference meeting notes;
10. CTX invoice dated 5-6-19 & letter of recommendation for payment, Vertex;
11. CTX communication regarding HVAC systems;
12. Updated schedule of probable costs 4-26-19;
13. Project schedule (5-2-19 STM date added);
14. Communications;

Respectfully submitted,


Bob Connors



**PUBLIC NOTICE POSTING REQUEST
TO OFFICE OF TOWN CLERK**
Email: townclerk@townofnewbury.org
Fax: 978-572-1228

BOARD/COMMITTEE/ORGANIZATION: **POLICE STATION BUILDING PROJECT
CONSTRUCTION COMMITTEE**

☒ **MEETING**

☐ **PUBLIC HEARING**

DAY of WEEK/DATE: **FRIDAY-May 17, 2019** **TIME (AM/PM):** **7:00 A.M.**

ADDRESS: ☒ **Newbury Municipal Offices, 12 Kent Way, Byfield, MA 01922**

ROOM: ☒ **2nd Floor Hearing Room**

PURPOSE: **GENERAL BUSINESS**

SUBMITTED BY: **ROBERT CONNORS,
chairman.**

All meeting notices must be filed and time stamped in the Town Clerk's office and posted on the municipal bulletin board 48 hours prior to the meeting in accordance with MGL Ch. 30A, § 18-25.

This *may not* include Saturdays, Sundays or legal holidays.

Newbury Municipal Offices are open Mon., Wed., Thurs. 8-4 and Tuesday from 8-7, closed Fridays.

Faxed or Emailed postings must reach the Clerk's office during business hours 48 hours prior to the meeting.

MEETING NOTICES WILL ALSO BE POSTED ON THE TOWN WEBSITE (www.townofnewbury.org)

Agenda:

Call to order

- 1) Review of April 26, 2019 meeting summary;
- 2) Context Architects (Jeff Shaw) update;
- 3) Update of project schedule, all phases;
- 4) Review estimate of probable costs;
- 5) Update-local permitting-approvals;
- 6) Communications;
- 7) Citizen's concerns;
- 8) Next meeting date;

Adjourn

Note: The matters listed above are those reasonably anticipated by the Chair to be discussed at the meeting. This Agenda may be updated or revised after initial posting. Not all items listed may in fact be discussed, and other items not listed may be brought up for discussion to the extent permitted by law.



**Town of Newbury
Building Project Construction Committee
Friday, May 17, 2019 7:00A.M., at
Town Hall
AGENDA**

- 1) Review of April 26, 2019 meeting summary;
- 2) Context Architects (Jeff Shaw) update;
- 3) Update of project schedule, all phases;
- 4) Review site plan;
- 5) Review estimate of probable costs;
- 6) Update-Seabrook grants, TCS communications;
- 7) Communications
- 8) Citizen's concerns;
- 9) Next meeting date;

Adjourn

Note: "These listings of matters are those reasonably anticipated by the chair which may be discussed at the meeting. Not all items listed may in fact be discussed and other items not listed may also be brought up for discussion to the extent permitted by law"

**Town of Newbury
Building Project Construction Committee
Police Station/Town Hall Project**

MINUTES

DATE: April 26, 2019

Approved: _____

Building Committee Members Present:

Bob Connors	Chair
Eric Svahn	Vice-Chair
John Kellar	Secretary

Building Committee Members Not Present:

Others Present:

Michael Reilly	Police Chief, Town of Newbury
Jeff Shaw	Principal, Context Architecture (CTX)

Others Not Present"

Kevin Heffernan	Owner's Project Manager Vertex (VTX)
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The meeting was opened at 7:02 a.m.

1. April 19, 2019 Meeting Minutes

Meeting minutes from the April 19, 2019 meeting were reviewed. A motion to approve was made by J. Kellar, seconded by E. Svahn and approved, 3-0, by the committee. Signed by B Connors, Chairman. J. Kellar to deliver original to TON.

2. Invoices

Committee reviewed Context and Vertex current invoices. J Kellar made motion to approve, E. Svahn seconded. Committee vote 3-0 to approve invoices. J. Kellar to deliver originals to TON.

K. Heffernan will look into the breakout costs for Vertex and Context for the value of the Town Hall portion of their contract and report back at the next meeting.

3. Meeting Minutes from April 26, 2019

Reviewed items from Context



NEWBURY POLICE STATION & TOWN HALL PROJECT

MEETING NOTES – Building Construction Committee – ~~3.15.2019~~ 4.26.2019

Building Committee Members Present:

Bob Connors	Chair
Eric Svahn	Vice Chair
John Kellar	Secretary

Building Committee Members Absent:

Others Present:

Michael Reilly	Police Chief, Town of Newbury
Jeff Shaw	Principal, Context Architecture (CTX)

Distribution:

All attendees plus:	
Kevin Heffernan	Owners Project Manager, Vertex (VTX)

The police Chief is working on obtaining a letter from MEMA to be used for a grant application for the emergency generator. The Chief will update as information is obtained.

JS updated the committee regarding the status of work towards the regulatory approvals. The design team is pushing forward with the site package which has been transmitted to the Town Planner for distribution to staff. A meeting has been organized for next Wednesday to conduct the Pre-Application staff review. At that meeting the design team will obtain comments on the project and direction for making the final application. The team anticipates the application will be made in May with hearings scheduled for June 18 & 19 with conservation and planning. The Town Planner is inquiring whether this initial hearing could be combined into one meeting. A 2nd hearing date may be required. If so this would occur in July. JS noted that the project schedule has enough time to incorporate 2 hearings but if a 3rd is required, any changes may need to be incorporated into an bid addendum as the final documents will be released at the end of July.

It was agreed that the design team would send out the abutter notifications and receive the return receipts as the Town is understaffed currently.

Bob will draft a letter to the Board of Selectmen requesting their permission to waive all fees that may be able to be waived.

JS to provide an updated schedule which includes more detail on the regulatory dates. The team is still on schedule.

Bob noted that at the recent Town Meeting the Town voted on the three alternative façade options and Option 1 was the clear favorite. The design team was instructed to proceed with this option.

A list of Bid Alternates was discussed. They include:



- Siding – types to be determined
- Ext Painting – Leaving siding and trim unfinished
- Site Curbing – vertical granite at street would be base bid, angled granite would be alternate in lieu of cape code berm or no curbing as determined by site plan review.
- Windows, Alum clad – in lieu of fiberglass
- Signage/Flagpole – including stone wall
- Landscaping – to the extent that wetlands replication areas and some minimum ground cover may be required by conservation commission

The possibility of making the elevator and alternate was discussed, but for ADA and MAAB requirements the elevator will tentatively stay as base bid. The team will continue to monitor the cost using the line item in the cost estimate.

The committee agreed to remove the CMU bearing walls within the garage areas due to the problematic complexity of the wood frame design and the potential for cracking. Plywood shear walls and impact resistant drywall will be utilized.

JS noted that HVAC systems are just beginning to be coordinated with the architectural design and the drawings show more equipment in the attic than is desirable at this point. CTX will continue to work with the engineers to coordinate and locate equipment efficiently.

CTX will organize a meeting with the Police, TCS communications and the design engineer to review electrical and technology requirements and locations within the next 2 weeks. CTX will reach out to the Chief for dates.

The Committee requested that CTX provide them with 3 half size sets of the current drawings for their review. The sets will be delivered to Eric Svahn's office.

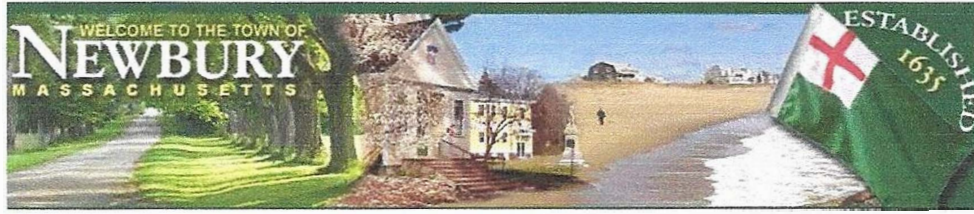
The next meeting of the committee with CTX will be on Friday ~~April 1~~ May 17, 2019 at 7am.



NEXT MEETING: April 26, 2019, 7:00 AM

Respectfully submitted,

John W. Kellar, III
Building Project Construction Committee Secretary/Clerk



Town of Newbury Building Project Construction Committee

LETTER FROM POLICE STATION CONSTRUCTION COMMITTEE

May 17, 2019

Chairman JR Colby;
Members of the Board of Selectmen

Dear Members:

On behalf of the Police Station Building Project Construction Committee, I am writing the Board to provide an update on scheduling of local permitting and approvals.

The members of the Planning Board and the Conservation Commission have agreed to hold the first session of their respective public hearings (Site Plan Review and Notice of Intent) regarding the Police Station project jointly. They also agreed that it would be best to hold these hearings on a night separate from their regularly scheduled meetings and have chosen **Wednesday, June 12, 7:00 p.m.**, as the date and time for both hearings to open. Jen Goodwin, the Inspectional Services Admin, will advise on when the NOI needs to be submitted to meet the filing deadline for the June 12 hearing date. The hearings will be held in the second floor Hearing Room here at our Town Offices.

Application/permitting fees:

At this time the building project construction committee recommends that the Town of Newbury consider waiving all associated fees typically incurred by applicants. The town would incur the usual advertising/peer review fees required during the permitting process.

Project Schedule:

- August 2019 date for release of drawings for construction Bids;
- September 2019 is the target date for awarding contract and "Notice to proceed".

Respectfully submitted,

ROBERT CONNORS, CHAIR;
ERIC SVAHN, VICE CHAIR;
JOHN KELLAR, SECRETARY /CLERK
CHIEF MICHAEL REILLY

NEWBURY POLICE STATION & TOWN HALL PROJECT
MEETING NOTES – Building Construction Committee – 4.26.2019

Building Committee Members Present:

Bob Connors	Chair
Eric Svahn	Vice Chair
John Kellar	Secretary

Building Committee Members Absent:

Others Present:

Michael Reilly	Police Chief, Town of Newbury
Jeff Shaw	Principal, Context Architecture (CTX)

Distribution:

All attendees plus:	
Kevin Heffernan	Owners Project Manager, Vertex (VTX)
Zel Tonic	Project Manager, Context Architecture (CTX)
Craig Johnson	Context Architecture (CTX)
	File: 1714.00: 02: 2.2

The police Chief is working on obtaining a letter from MEMA to be used for a grant application for the emergency generator. The Chief will update as information is obtained.

JS updated the committee regarding the status of work towards the regulatory approvals. The design team is pushing forward with the site package which has been transmitted to the Town Planner for distribution to staff. A meeting has been organized for next Wednesday to conduct the Pre-Application staff review. At that meeting the design team will obtain comments on the project and direction for making the final application. The team anticipates the application will be made in May with hearings scheduled for June 18 & 19 with conservation and planning. The Town Planner is inquiring whether this initial hearing could be combined into one meeting. A 2nd hearing date may be required. If so this would occur in July. JS noted that the project schedule has enough time to incorporate 2 hearings but if a 3rd is required, any changes may need to be incorporated into an bid addendum as the final documents will be released at the end of July.

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The Committee requested that CTX provide them with 3 half size sets of the current drawings for their review. The sets will be delivered to Eric Svahn's office.

The next meeting of the committee with CTX will be on Friday April 1May 17, 2019 at 7am.

Bob Connors

From: Planning Board <planningboard@townofnewbury.org>
Sent: Monday, May 13, 2019 11:12 AM
To: Zeljko Tonic
Cc: Jeff Shaw; Nathan Ketchel; Chris Garcia; Craig Johnson; Bob Connors; Eric Svahn (epsvahn@gmail.com); John Kellar
Subject: Newbury Police Station Hearing Date - June 12, 2019, 7:00 p.m.

I just wanted to confirm with you all that the members of the Planning Board and the Conservation Commission have agreed to hold the first session of their respective public hearings (Site Plan Review and Notice of Intent) regarding the Police Station project jointly. They also agreed that it would be best to hold these hearings on a night separate from their regularly scheduled meetings and have chosen **Wednesday, June 12, 7:00 p.m.**, as the date and time for both hearings to open. Jen Goodwin, the Inspectional Services Admin, will advise on when the NOI needs to be submitted to meet the filing deadline for the June 12 hearing date. The hearings will be held in the second floor Hearing Room here at our Town Offices.

If you have any questions, please let me know.

Thanks,

Martha

Martha L. Taylor, AIA

Town Planner

Town of Newbury

12 Kent Way

Byfield, MA 01922

T 978-465-0862, ext. 312

planningboard@townofnewbury.org



Plant List:

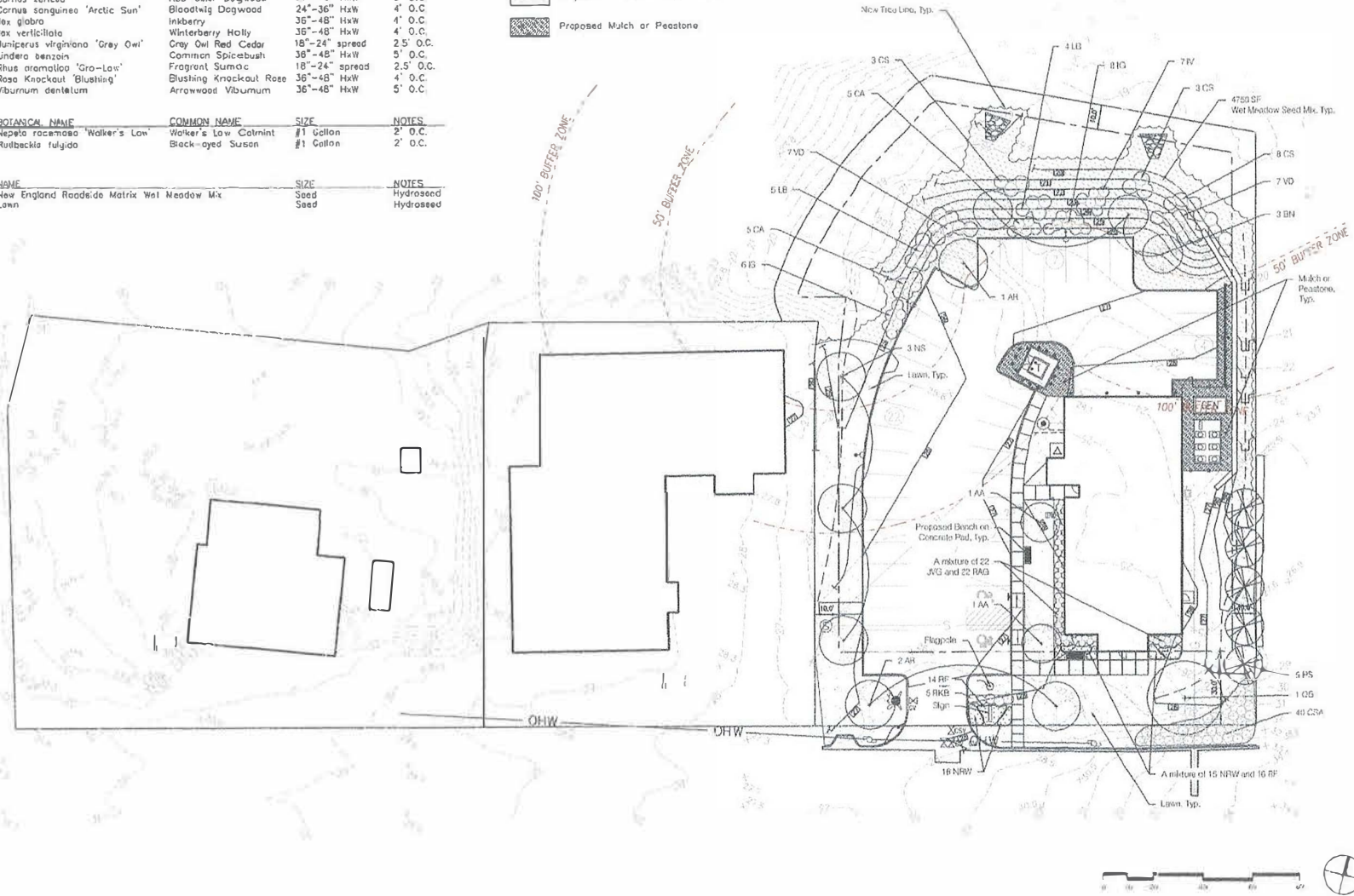
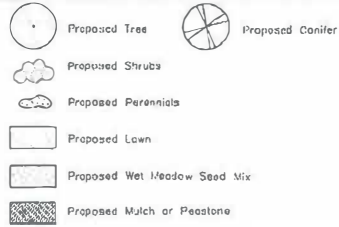
TREES	SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AR	3		Acer rubrum	Red Maple	3"-3.5" Cal., B&B	
AA	2		Amelanchier arborea	Serviceberry	2.5"-3" Cal., B&B	Single-stem
BN	3		Betula nigra	River Birch	2.5"-3" Cal., B&B	Single-stem
NS	3		Nyssa sylvatica	Black Gum	3"-3.5" Cal., B&B	
PS	5		Pinus strobus	White Pine	10"-12" tall, B&B	
QB	1		Quercus bicolor	Swamp White Oak	3"-3.5" Cal., B&B	

SHRUBS	SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
CA	10		Ceanothus americanus	Sweet Pepperbush	24"-36" HxW	4' O.C.
CS	14		Cornus sericea	Red-Osier Dogwood	36"-48" HxW	5' O.C.
CSA	40		Cornus sanguinea 'Arctic Sun'	Bloodtwig Dogwood	24"-36" HxW	4' O.C.
IC	14		Ilex glabra	Inkberry	36"-48" HxW	4' O.C.
IV	7		Ilex verticillata	Winterberry Holly	36"-48" HxW	4' O.C.
JVC	22		Juniperus virginiana 'Gray Owl'	Gray Owl Red Cedar	18"-24" spread	2.5' O.C.
LB	9		Lindera benzoin	Common Spicebush	36"-48" HxW	5' O.C.
RAG	22		Rhus aromatica 'Gro-Low'	Fragrant Sumac	18"-24" spread	2.5' O.C.
RKB	5		Rosa Knockout 'Blushing'	Blushing Knockout Rose	36"-48" HxW	4' O.C.
VD	14		Viburnum dentatum	Arrowwood Viburnum	36"-48" HxW	5' O.C.

PERENNIALS	SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
NRW	31		Nepeta racemosa 'Walker's Low'	Walker's Low Catmint	#1 Collon	2' O.C.
RF	30		Rudbeckia fulgida	Black-eyed Susan	#1 Collon	2' O.C.

SEED MIXES	SYM	QTY	NAME	SIZE	NOTES
	4750sf		New England Roadside Matrix Wet Meadow Mix	Seed	Hydroseed
	9725sf		Lawn	Seed	Hydroseed

Legend:



context
ARCHITECTURE

147 PARKSON AVENUE SUITE 100 NEWBURY, MA 01901 TEL: 617.552.1400 FAX: 617.552.1401

DAVID M. DESAUTELS
LANDSCAPE ARCHITECT
No. 12547
State of Massachusetts

PROGRESS SUBMISSION:
DATE: 03-23-2011
NOT FOR CONSTRUCTION

NEWBURY POLICE STATION
Newbury, MA
Project Number:

Scale: 1" = 20'-0"
Drawn by: JHC

Rev. Date: Rev. Date: 03-23-2011

Newbury Police Station			Prepared by CBA Landscape Architects, LLC				
						05/08/2019	
Plant Costs							
No.	Item	Size	Qty	Unit	Unit Price*	Subtotal	Total
Trees							
	Acer rubrum	3-3.5" Cal. B&B	3	EA	\$1,380.00	\$4,140.00	
	Amelanchier arborea (single stem)	2.5-3" Cal. B&B	2	EA	\$680.00	\$1,360.00	
	Betula nigra (single stem)	2.5-3" Cal. B&B	3	EA	\$810.00	\$2,430.00	
	Nyssa sylvatica	3-3.5" Cal. B&B	3	EA	\$1,455.00	\$4,365.00	
	Pinus Strobus	10-12' Ht. B&B	5	EA	\$960.00	\$4,800.00	
	Quercus bicolor	3-3.5" Cal. B&B	1	EA	\$1,290.00	\$1,290.00	
							\$18,385.00
Shrubs							
	Clethra alnifolia	2-3ft C.G. #3	10	EA	\$60.00	\$600.00	
	Cornus sericea	3-4ft C.G. #3	14	EA	\$60.00	\$840.00	
	Cornus sanguinea 'Arctic Sun'	2-3ft C.G. #3	40	EA	\$90.00	\$3,600.00	
	Ilex glabra	3-4ft B&B	14	EA	\$378.00	\$5,292.00	
	Ilex verticillata	3-4ft B&B	7	EA	\$132.00	\$924.00	
	Juniperus virginiana 'Grey Owl'	18-24"spd C.G. #3	22	EA	\$66.00	\$1,452.00	
	Lindera benzoin	3-4ft C.G. #3	9	EA	\$72.00	\$648.00	
	Rhus aromatica 'Gro-Low'	18-24"spd C.G. #3	22	EA	\$66.00	\$1,452.00	
	Rosa Knockout 'Blushing'	3-4' C.G. #5	5	EA	\$72.00	\$360.00	
	Viburnum dentatum	3-4' C.G. #5	14	EA	\$78.00	\$1,092.00	
							\$16,260.00
Perennials							
	Nepeta racemosa 'Walker's Low'	#1 Pot	31	EA	\$18.00	\$558.00	
	Rudbeckia fulgida	#1 Pot	30	EA	\$18.00	\$540.00	
							\$1,098.00
Seed							
	Loam & Wet Meadow Seed Mix		4750	SF	\$1.00	\$4,750.00	
	Loam and Seeded Lawn		9725	SF	\$0.75	\$7,293.75	
							\$12,043.75
Total							
							\$47,786.75
*Unit Price reflects wholesale price multiplied by 3, which includes plant material, installation, and 1-year guarantee							
**Areas around new utility structures to be either mulch or peastone. Material to be determined.							

Bob Connors

From: Treasurer/Collector <treasurer@townofnewbury.org>
Sent: Tuesday, May 14, 2019 11:40 AM
To: Accountant; Bob Connors (bobdcon@aol.com); Eric Svahn (epsvahn@gmail.com) (epsvahn@gmail.com); John Kellar (jkellar@kellarassociates.com)
Subject: RE: Police Station Town Hall financial status at 3.31.19

Hello,

Just a reminder that I will need information relative to the amount required Bond for June 30th. This is to include expenditures to date, as well as anticipated payments through June 30th.

We are about 45 days from year end. This information is critical to the process and I anticipate that we need a final \$\$ amount by no later than May 23rd.

Please let me know if you have questions.

Diane M. Doyle, CMMC, CMMT

Treasurer/Collector

Town of Newbury

12 Kent Way, Suite 101

Byfield, MA 01922

treasurer@townofnewbury.org

Phone: 978-465-0862 ext 305

Fax: 978-572-1228



<https://www.facebook.com/townofnewburymass>



<https://twitter.com/TownofNewburyMA>



<https://www.youtube.com/user/TheNewburyChannel>

From: Accountant
Sent: Friday, May 03, 2019 12:55 PM
To: Bob Connors (bobdcon@aol.com); Eric Svahn (epsvahn@gmail.com) (epsvahn@gmail.com); John Kellar (jkellar@kellarassociates.com)
Cc: Treasurer/Collector
Subject: Police Station Town Hall financial status at 3.31.19

Hello,

I understand that the Town's Treasurer, Diane Doyle, has been in contact with the committee as she is in the process of preparing a BAN for the project's current deficit and anticipated spending in the upcoming months. I have attached a general ledger report outlining the deficit fund balance for the Police Station/Town Hall Renovation at 3/31/19 for consideration in this process. A detailed expense report for expended appropriations follows. Please let me know if you have any questions.

Eileen DeVeau
Town Accountant/Asst Finance Director
Town of Newbury
12 Kent Way

Bob Connors

From: Accountant <accountant@townofnewbury.org>
Sent: Friday, May 3, 2019 12:55 PM
To: Bob Connors (bobdcon@aol.com); Eric Svahn (epsvahn@gmail.com) (epsvahn@gmail.com); John Kellar (jkellar@kellarassociates.com)
Cc: Treasurer/Collector
Subject: Police Station Town Hall financial status at 3.31.19
Attachments: Fund Bal. and Exp detail PD-TH project 3.31.19.pdf

Hello,

I understand that the Town's Treasurer, Diane Doyle, has been in contact with the committee as she is in the process of preparing a BAN for the project's current deficit and anticipated spending in the upcoming months. I have attached a general ledger report outlining the deficit fund balance for the Police Station/Town Hall Renovation at 3/31/19 for consideration in this process. A detailed expense report for expended appropriations follows. Please let me know if you have any questions.

Eileen DeVeau
Town Accountant/Asst Finance Director
Town of Newbury
12 Kent Way
Suite 101
Byfield, MA 01922
accountant@townofnewbury.org
Tele 978-465-0862 x 313
Fax 978-572-1228



Town of Newbury
General Ledger Report
From 07/01/2016 to 03/31/2019

Account Number	Description	Debits	Credits	Balance
3160002210000	DT/DF CAP PROJ POLICE	104,334.00	224,257.25	-119,923.25
3160003590000	FB RESVD-CAP PROJ POLICE	224,257.25	104,334.00	119,923.25
3160005300001	P & T PD BLD/TH RENO-OPM	19,710.00	0.00	19,710.00
3160005300002	P&T PD BLD/TH RENO ARCH	117,200.00	18,000.00	99,200.00
3160005400001	MISC ADMIN EXP PD BLD/TH	6,673.25	5,660.00	1,013.25
Fund 316 Cap Proj-Police Stn/TH Reno Ending Bal		472,174.50	352,251.25	119,923.25
Report Total		472,174.50	352,251.25	119,923.25

** deficit fund balance
see attached for expenditure details*

Town of Newbury
EXPENDITURE REPORT
From 07/01/2016 to 03/31/2019

P & T PD BLD/TH RENO-OPM										
316 000 5300 001										
			Invoice	Check #	Description	Warr	Approp	Expended	Available	% Exp
07/01/2017	BDAPP	bdgt-OPM contract					88,340.00	0.00	88,340.00	0.00%
05/10/2018	EXENT	reclss Vertex inv PD/TH Reno to date					0.00	5,660.00	82,680.00	6.40%
06/30/2018	APWAR	VERTEX COMPANIES,	46330.00.00-86	80692	4/29/18-5/26/18	VW1827	0.00	2,040.00	80,640.00	8.71%
06/30/2018	APWAR	VERTEX COMPANIES,	46330.00.00-85	80692	4/1/18-4/28/18	VW1827	0.00	930.00	79,710.00	9.76%
07/02/2018	BDCFW	CF budgetfor PD/TH reno-OPM					797,910.00	0.00	877,620.00	0.97%
09/27/2018	APWAR	VERTEX COMPANIES,	46330.00.00-89	81364	PD/TH 7/1-7/28/18	VW1907	0.00	1,470.00	876,150.00	1.13%
09/27/2018	APWAR	VERTEX COMPANIES,	46330.00.00-88	81364	PD/TH 5/27-6/30/18	VW1907	0.00	2,890.00	873,260.00	1.46%
11/08/2018	APWAR	VERTEX COMPANIES,	46330.00.93703	81715	PD & TH OPM 9/2-9/29/18	VW1910	0.00	1,890.00	871,370.00	1.67%
12/06/2018	APWAR	VERTEX COMPANIES,	94982	81942	OPM 9/30/18-10/27/18	VW1912	0.00	1,400.00	869,970.00	1.83%
03/14/2019	APWAR	VERTEX COMPANIES,	46330-0100396	82714	12/30/18-1/26/19	VW1919	0.00	1,470.00	868,500.00	2.00%
03/14/2019	APWAR	VERTEX COMPANIES,	46330-0098122	82714	12/2/18-12/29/18	VW1919	0.00	350.00	868,150.00	2.04%
03/28/2019	APWAR	VERTEX COMPANIES,	46330.00.00-01	82833	01/27/19-02/23/19 PS&TH	VW1920	0.00	1,610.00	866,540.00	2.22%
316 000 5300 001 Ending Bal							886,250.00	19,710.00	866,540.00	2.22%
Period Total							886,250.00	19,710.00		

P&T PD BLD/TH RENO ARCH DESIGN										
316 000 5300 002										
			Invoice	Check #	Description	Warr	Approp	Expended	Available	% Exp
07/01/2017	BDAPP	bdgt-Architectural design					551,000.00	0.00	551,000.00	0.00%
06/30/2018	APWAR	Context Architecture	1714-00-04	80595	6/1-6/30/18	VW1827	0.00	14,000.00	537,000.00	2.54%
06/30/2018	APWAR	Context Architecture	1714.00-03	80595	5/1-5/31/18	VW1827	0.00	36,250.00	500,750.00	9.11%
06/30/2018	APWAR	Context Architecture	1714.00-02	80595	4/1-4/30/18	VW1827	0.00	12,750.00	488,000.00	11.43%
06/30/2018	APWAR	Context Architecture	1714.00-01	80595	3/1-3/31/18	VW1827	0.00	7,500.00	480,500.00	12.79%
07/02/2018	BDCFW	CF budgetfor PD/TH reno-Architect					480,500.00	0.00	961,000.00	6.83%
07/12/2018	EXENT	reclass part ck#80595,Context FD Space needs					0.00	-18,000.00	979,000.00	5.08%
08/30/2018	APWAR	Context Architecture	1714-00-05	81091	Warrant VW1905 - Invoice	VW1905	0.00	12,500.00	966,500.00	6.30%
01/01/2019	BDAMD	1/2019 Auth CO-redesign fee					38,000.00	0.00	1,004,500.00	6.07%
03/14/2019	APWAR	Context Architecture	1714.00 0009	82639	1/2 amend #3	VW1919	0.00	19,000.00	985,500.00	7.85%
03/28/2019	APWAR	Context Architecture	00010-1714.00	82742	Warrant VW1920 - Invoice	VW1920	0.00	15,200.00	970,300.00	9.27%
316 000 5300 002 Ending Bal							1,069,500.00	99,200.00	970,300.00	9.27%
Period Total							1,069,500.00	99,200.00		

Town of Newbury
EXPENDITURE REPORT
 From 07/01/2016 to 03/31/2019

MISC ADMIN EXP PD BLD/TH RENO										
316 000 5400 001			Invoice	Check #	Description	Warr	Approp	Expended	Available	% Exp
06/22/2017	APWAR	NORTH OF BOSTON	122192-5/31/17	77475	RFQ-#17-05-OPM	VW1726	0.00	530.75	-530.75	100.00%
09/28/2017	APWAR	VERTEX COMPANIES,	73317	78296	OPM designer RFQ	VW1807	0.00	480.00	-1,010.75	100.00%
12/07/2017	APWAR	VERTEX COMPANIES,	76854	78817	Warrant VW1812 - Invoice	VW1812	0.00	80.00	-1,090.75	100.00%
12/21/2017	APWAR	NORTH OF BOSTON	122192-109982	78921	RFQ Designer PD Stn/TH	VW1813	0.00	482.50	-1,573.25	100.00%
01/04/2018	APWAR	VERTEX COMPANIES,	78555	79043	PM 10/29-11/25/17	VW1814	0.00	1,120.00	-2,693.25	100.00%
02/15/2018	APWAR	VERTEX COMPANIES,	79945	79386	PD/TH Pjct-OPM	VW1817	0.00	1,880.00	-4,573.25	100.00%
03/15/2018	APWAR	VERTEX COMPANIES,	80889	79634	Warrant VW1819 - Invoice	VW1819	0.00	240.00	-4,813.25	100.00%
04/12/2018	APWAR	VERTEX COMPANIES,	81995	79869	Warrant VW1821 - Invoice	VW1821	0.00	240.00	-5,053.25	100.00%
05/10/2018	APWAR	VERTEX COMPANIES,	84211	80136	Police Station & Town Hall	VW1823	0.00	1,620.00	-6,673.25	100.00%
05/10/2018	EXENT	recless Vertex inv PD/TH Reno to date					0.00	-5,660.00	-1,013.25	100.00%
316 000 5400 001 Ending Bal							0.00	1,013.25	-1,013.25	100.00%
Period Total							0.00	1,013.25		
Dept 000 - - - Ending Bal							1,955,750.00	119,923.25	1,835,826.75	
Period Total							1,955,750.00	119,923.25		

NEWBURY POLICE STATION

MEETING NOTES – Site Plan Review Pre-Submission Conference – 5.01.2019

Present:

Martha Taylor	Town Planner
James Sarette	DPW Director
Michael Reilly	Police Chief
Joseph Serwatka	Review Engineer
Pete Paicos	Planning Board Vice Chair
Doug Packer	Conservation Agent
Sam Joslin	Building Commissioner
Rachel McManus	Planning Board Chair
Doug Janvrin	Fire Chief
Nathan Ketchel	Civil Engineer – GGD
Zel Tonic	Project Manager – Context Architecture

Distribution:

Bob Connors	Chair, Building Committee
Eric Svahn	Vice-Chair, Building Committee
John Kellar	Secretary, Building Committee
Kevin Heffernan	Owners Project Manager, Vertex (VTX)
Jeff Shaw	Context Architecture (CTX)
Craig Johnson	Context Architecture (CTX)
	File: 1714.00: 02: 2.2

The purpose of the meeting was to present the site development design for the proposed new Police Station and get reactions, comments and direction prior to the formal submission to the Planning Board and Conservation Commission.

Zel briefly noted that the building plans have been set and now the structural design was progressing:

- The structural frame will consist of a combination of conventional wood framing and steel (where needed).
- There are some challenges due to the requirements for a Category 4 structure (seismic requirements) on poor soil conditions. It is anticipated that standard foundations and footings will be used, but that is still under review.
- The basic approach for utilization of the site is to remove unsuitable soils (organics and misc. exist. fill) and bring in suitable (including structural) fill to raise the building and parking area elevations, to minimize slopes to 5% or less.

Nathan described the basic elements of the proposed grading, drainage and utilities on the site:

- Forty-five parking spaces will be provided on the site, including two van accessible spaces adjacent to the public entrance to the building.
- A portion of the site will require a retaining wall averaging approximately 6 feet. The retaining wall will have a chain link fence for fall protection.



- The drainage system will consist of deep sump catch basins tied to a hydrodynamic water quality unit for stormwater treatment prior to discharging to an underground chamber system sealed with a 20 mil. PCV membrane. The chamber system will provide storage for peak flow attenuation.
- The domestic and fire services will be brought onto the site with each having a dedicated pipe connection from the street to the building.
- The building will connect to the existing gravity sewer line that connects to the existing One sewer pump the Fire Department recently installed at the southwest corner of the site.
- The Sallyport floor drains will connect to an oil-water separator prior to discharging to the sewer.
- Given the proximity to the resource area, oil containment curbing will surround the pad-mounted transformer.
- The generator and HVAC equipment pads will be located at the northeast corner of the building.
- Site light poles would have cut-off fixtures to minimize light spill onto abutting properties.

The following comments/suggestions were made that will be considered or integrated into the design prior to submission:

- It was suggested to try to eliminate the hydrodynamic water quality structure due to maintenance concerns. The design team will review if it would be possible to remove and replace with an alternate means to provide the required Total Suspended Solids (TSS) removal prior to discharge to the resource area.
- The Fire Department requested that the Fire Department Connection (FDC) be a 5" Storz connection.
- The Fire Department requested that the turning movements of an ambulance be reviewed from the entrance of the site into the Sallyport, at the north end of the site.
- It was requested that snow storage be reviewed and locations suggested/shown on the drawings. Further discussion was had with the snow likely to be placed in the shallow swale between the police and fire stations.
- It was suggested that an additional catch basin be installed on the east side of the driveway entrance on Morgan Avenue to prevent icing, since curbing is being added in front of the proposed development. It was noted that existing water main is located along the edge of the roadway and that adding the catch basin would require it being offset onto the site similar to the catch basin between the fire and police station sites.

Zel presented a preliminary Landscape Plan and noted that it had not yet been reviewed for content by the design team and the actual proposed landscape and plantings plan will be revised prior to submission. The main comments regarding the preliminary plan are:

- The landscaped swale area between the existing Fire Station paved parking and the new proposed Police Station parking area, may become the on-site snow removal storage area.
- The area at the East boundary of the site, adjacent to the existing retaining wall to be addressed for visual screening from the abutter's property.
- Some elements of the site improvements/landscaping design may become add alternates to the General Bid, pending the Design Development Cost Estimate and Building Committee input.
- Site lighting and building lighting, including specs & catalogue cuts, will need to be submitted as part of the Site Plan Review. Currently the plan is for several parking area light

poles and several building mounted fixtures that can be programmed and/or on sensors. A photometric plan will be provided as part of the site plan submission.

Martha noted that the possibility of having a combined Site Plan Review and Conservation Commission review meeting was still under consideration. While there are possible procedural issues involved, the group agreed to work towards an acceptable arrangement that would work for the majority involved. The schedule as of now is as follows:

- The Site Plan Review Package including the application will need to be submitted by Wed. May 15th at the regularly scheduled Planning Board Meeting, in order to make the June 19th Site Plan Review Hearing Date. The submission may need to be made in person, but waiving that requirement may be considered, since the Town will be signing the application.
- The final date for submission of the Conservation Commission Application package is June 6, in order to make the June 18th Con Com Hearing date.
- Application fees will be waived.

Zel noted that the Antenna Tower that is being designed by the Town's Vendor is being located near the NE corner, in between the stair tower projection and the building. The tower is going to be braced by the building structure and our engineer needs all of the design loads in order to properly size the foundation for the tower and how it will be braced to the building structure.

The Planning Board submission will include 10 full size 24"x36" drawing sets, 6 half size 12"x18" drawing sets and an electronic (PDF) set of all submitted materials. An electronic set of the drawings and drainage analysis will be emailed to Joseph Serwatka, the Town's peer review engineer.

The Conservation Commission submission will include 2 full size 24"x36" drawing sets and an electronic (PDF) set of all submitted materials.

Martha noted that the Town will help with notifications of abutters.

Meeting adjourned.

Reported by Zel Tonic
Project Manager, Context Architecture



Town of Newbury
Tracy Blais
Town Administrator/Procurement Officer
12 Kent Way, Suite 200
Newbury, MA 01922

Invoice number 00012
Date 05/06/2019

Project 1714.00 NEWBURY POLICE STATION

Professional Services: April 1, 2019 to April 30, 2019

Architectural Services Provided: Continue Design Development.

Description	Fee	Percent Complete	Prior Billed	Earned	Current Billed
Kick off meeting/Goals/Space Needs	15,000.00	100.00	15,000.00	15,000.00	0.00
Site Review/SDesign/Probable Cost & Public Meeting	50,000.00	100.00	50,000.00	50,000.00	0.00
Design Development	96,000.00	60.00	28,800.00	57,600.00	28,800.00
Regulatory Approvals	40,000.00	0.00	0.00	0.00	0.00
Construction Documents	154,000.00	0.00	0.00	0.00	0.00
Bidding	10,000.00	0.00	0.00	0.00	0.00
Construction Administration	186,000.00	0.00	0.00	0.00	0.00
Amendment 1: Fire Station Space Needs Study	18,000.00	100.00	18,000.00	18,000.00	0.00
Amendment 2: Revise Space Needs Prog. & Budget	3,000.00	100.00	3,000.00	3,000.00	0.00
Amendment 2: Concept Design Drawings	5,000.00	100.00	5,000.00	5,000.00	0.00
Amendment 3: Combined Town Hall & Police Facility	5,000.00	100.00	5,000.00	5,000.00	0.00
Amendment 4: Schematic Design 2	38,000.00	100.00	38,000.00	38,000.00	0.00
Total	620,000.00	30.90	162,800.00	191,600.00	28,800.00

Invoice total 28,800.00

cc: kheffeman@vertexeng.com



Bob Connors

From: Dom Puniello <dom_puniello@g-g-d.com>
Sent: Wednesday, May 1, 2019 12:53 PM
To: Bob Connors; 'Jeff Shaw'
Cc: 'Eric Svahn'; 'John Kellar'; 'Zeljko Tonicic'; Sean Strassell
Subject: Re: Newbury HVAC change
Attachments: Submittal_HE1XINH_ECM_Bypass_Jan2019.pdf;
Submittal_HE1.5XINH_ECM_Bypass_Jan2019.pdf

Hi Jeff & Bob,

Please attached proposed ERV cut sheets. These are similar to lower profile units derived in the email below. The design currently requires three (3) ERV units. The larger unit HE1.5X model would be for the locker rooms due to their higher outdoor/exhaust air ventilation requirements. The other two ERV units would be smaller (HE1X model) 400 cfm range units for the 2nd floor Meeting room and 1st floor Holding Cell area.

The current estimated cooling load for each floor is approximately: 12 tons per floor. These capacities are based on the nominal cooling load of the outdoor condensing unit equipment. There also will be a split system for the IT server room (currently estimated at 3 tons).

We will continue to work with Context to keep these three (3) ERV units towards the building exterior to maximize open space in the attic.

Thanks,
Dom

Dominick Puniello, P.E.

Principal

Garcia Galuska DeSousa

Consulting Engineers Inc.

370 Faunce Corner Road

N. Dartmouth, MA 02747-1217

☎ Phone: 508-998-5700 ext.13

☎ Fax: 508-998-0883

✉ E-mail: dom_puniello@g-g-d.com

From: Bob Connors <bobdcon@aol.com>

Sent: Wednesday, May 1, 2019 12:11:59 PM

To: 'Jeff Shaw'

Cc: 'Eric Svahn'; 'John Kellar'; 'Zeljko Tonicic'; Dom Puniello; Sean Strassell

Subject: RE: Newbury HVAC change

Jeff,

We can encroach on the open space a bit but for the obvious reasons want to keep equipment/duct isolated to each side without ducts-etc. from crossing open area.

Best,

Bob Connors

R. D. Connors Corp
400 W. Cummings PK
Suite 1725
Woburn, MA 01801
617-593-8945

From: Jeff Shaw [mailto:jshaw@contextarc.com]
Sent: Wednesday, May 1, 2019 9:35 AM
To: Bob Connors
Cc: Eric Svahn; John Kellar; Zeljko Tonicic; Dominick Puniello; sean_strassell@g-g-d.com
Subject: Re: Newbury HVAC change

Dom

Can you comment?

On May 1, 2019, at 9:33 AM, Bob Connors <bobdcon@aol.com> wrote:

Jeff,

Thank you for the response. The **ERV's in the attic, how many are needed and do we have a cut sheet on size?** We've worked with low profile ERV's in the past and its not clear to me at this point why these units won't fit in the 10' eave locations? What is the anticipated cooling loads for each level, are we in the 15 ton range per floor?

<image003.jpg>

Bob Connors

R. D. Connors Corp
400 W. Cummings PK

Suite 1725

Woburn, MA 01801

617-593-8945

From: Jeff Shaw [<mailto:jshaw@contextarc.com>]

Sent: Tuesday, April 30, 2019 6:23 PM

To: Bob Connors

Cc: Eric Svahn (esvahn@sga-arch.com); John Kellar; Zeljko Tonicic; Dominick Puniello (dom_puniello@g-g-d.com)

Subject: RE: Newbury HVAC change

Bob,

Thanks for your feedback. I have put our comments in line below in red. We will tentatively proceed with the current system design and pursue answers to 2 questions:

1. Can the units fit in the sides of the attic maintaining enough clear space in the center, inclusive of ductwork requirements. You will not below that the engineers are not optimistic about this scenario
2. How much added height will be needed to place units about the ceilings, in strategic locations to maintain ductwork runs and intake/exhaust air as well as flues.

JEFF SHAW, AIA, LEED AP BD+C, MCPPO

PRINCIPAL + PRESIDENT

context ARCHITECTURE

68 HARRISON AVENUE BOSTON, MA 02111

TEL 617 423 1400 X 35 WEB CONTEXTARC.COM

TWITTER | FACEBOOK

DONHAM & SWEENEY IS NOW **CONTEXT** ARCHITECTURE

From: Bob Connors <bobdcon@aol.com>

Sent: Tuesday, April 30, 2019 7:47 AM

To: Jeff Shaw <jshaw@contextarc.com>

Cc: Eric Svahn (esvahn@sga-arch.com) <esvahn@sga-arch.com>; John Kellar <jkellar@kellarassociates.com>; Zeljko Tonicic <ztoncic@contextarc.com>; Dominick Puniello (dom_puniello@g-g-d.com) <dom_puniello@g-g-d.com>

Subject: Re: Newbury HVAC change

Team

Couple of thoughts. Cost in this case isn't the driving factor as much as ease to maintain/service equipment.

1. The attic area "center" needs to be clear 30'x96'. Area next to com tower can be allocated for radio equipment in the clear zone. The 10' wide area along eave lines for equipment location. Duct to drop below floor line for 2nd floor distribution with appropriate fire damper at floor penetration. Or, I don't think we have enough space presently in the eaves to fit much of the mechanicals. The smallest ERV's would not fit in these locations as shown in the design model.

2. horizontal gas furnaces with associated Freon coil being installed above ceilings, my experience has been this is more the norm than proposed system switch. Typically equipment is located within hallway ceilings with duct distribution as required. We will still need ERV's in the attic as required by code for energy recovery, along with Outdoor air and Exhaust air ductwork to and from the AHU's in the ceiling. Our concern would still remain regarding safety items and we would require additional sprinklers and CO detection within the ceiling plenum. If the we maintain the original approach, we would strongly recommend switching to a boiler to take care of the heating medium, and switching the AHU's to hydronic heating coils with DX instead of gas fired units with DX. We would have several benefits on top of the safety concerns.

- Reduction of flue intake/exhaust.
 - a. Single point intake and combustion air for boiler
 - b. This also assists in ventilation/exhaust clearances for combustion routing and termination to operable windows or other intakes.
 - c. Less concern with sloped flue routing/condensate for high efficiency furnaces. (likely a 3-4" connection)
- Less condensate to treat and dispose of.
- Less/smaller condensate piping
- Better control over heating discharge air out of the AHU's. Typical gas fired units are limited to a specific temperature rise.

3. System can be designed to work within main steel carrying beam locations. Can we show proposed beam/joist locations and cross section? We are currently getting structural information but the plan is to limit the amount of steel for cost reasons, depending on the structural requirements it may limit AHU locations.

4. Can the wood joist framing be hung off steel carrying beams with appropriate fasteners v typical joist/beam configuration? See response to 3.

5. I'm fine with adding 12" to the first floor elevation to accommodate hvac/mep systems. Will be reviewed pending the above solution and determining how much additional height would be necessary.

My humble thoughts this rainy morning.

Best.

Bob Connors

R. D. Connors Corp

400 W. Cummings Pk

Suite 1725

Woburn MA 01801

617-593-8945

via iPhone

On Apr 29, 2019, at 5:05 PM, Jeff Shaw <jshaw@contextarc.com> wrote:

Bob,

As I mentioned at our meeting on Friday, I was concerned with the extensive use of the attic for mechanical equipment and would be speaking to the engineers to see what options we have. After extensive consideration between us and our HVAC engineer we have determined that a change should be made to the HVAC system to meet the Town's requirements. Basically it boils down to the dramatic loss of space in the attic if we are to stick with a gas fed furnace system. We discussed the possible location of these type of units in the above ceiling spaces and there are several concerns that prevented us from going down that road.

1. The units are fairly large, and would require us to raise the height of the building. Much of the work would be to fit in the AHU and ERV units which can take up to 3'+ not to mention the space needed for plumbing and fire protection.
2. The units are gas fed which we believe is a health and safety issue to have them operating above ceilings in office space.
3. The servicing of these units above the ceiling would be a constant headache for the Town and the department given the height above the floor and the tight confines of the ceiling.

We looked at reworking the attic with the same system and it would never achieve the amount of storage space for which it was intended. Therefore we are now recommended switching to a VRF system. If you recall the VRF system was presented in the system options panel that Keith Lane presented to the committee. The VRF had a higher first cost but lower overall lifecycle cost. The first cost was higher by \$19k. We believe that this system can very easily be placed within the current building ceilings without an issue. 3 ERV's would still be needed in the attic but they would be discrete and would not take up much space. Also the outdoor condensing units would be reduced from 7 to 4 and the formerly standalone units at the dispatch and network room would be integrated into this system. We believe that overall this is a superior outcome as it maintains the Town's goal of getting maximum usefulness from the attic, does not increase the height of the building, and only minimally increases the cost of the building.

In order to stay on schedule we will need direction from you as to how to proceed. Currently the engineers will be getting system information and selection data from the manufacturers which will keep them busy for a short while, but very soon we will need to have them start revising the plans to show the new system.

Please let me know if you have any questions and send us direction if you agree with this switch. Thanks.

JEFF SHAW, AIA, LEED AP BD+C, MCPPO

PRINCIPAL + PRESIDENT

context ARCHITECTURE

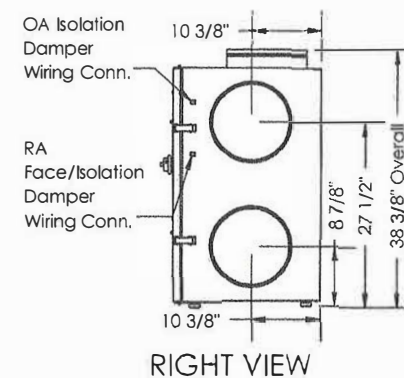
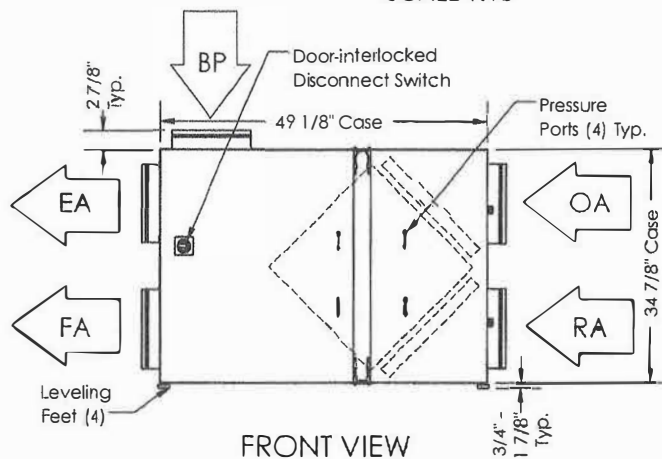
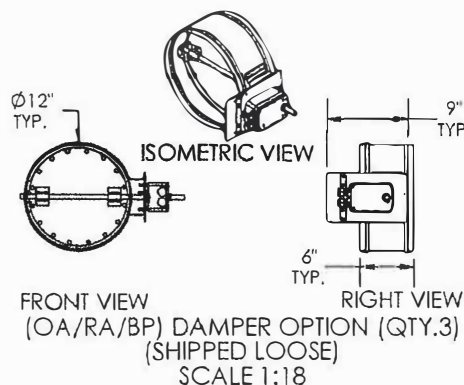
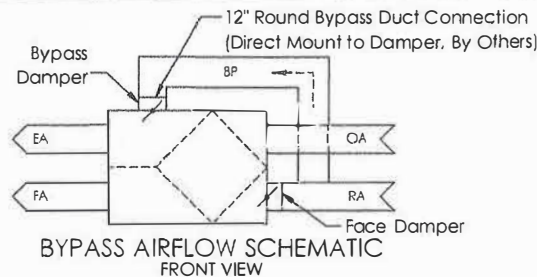
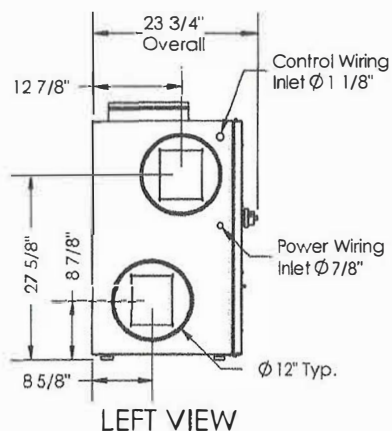
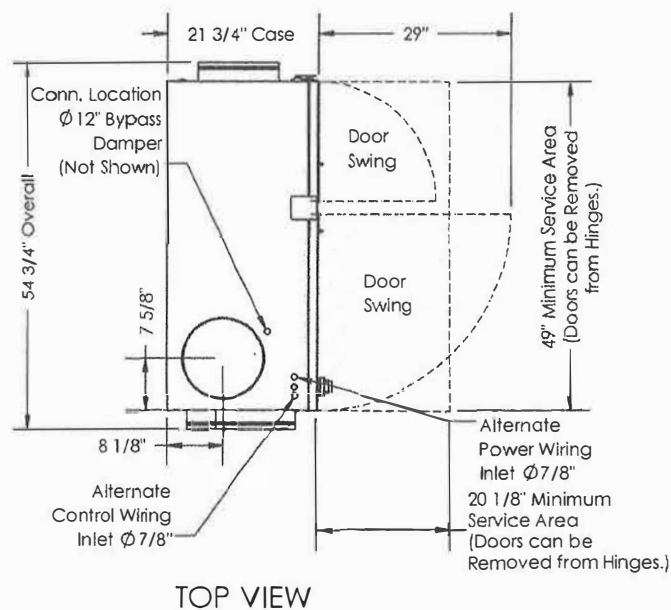
68 HARRISON AVENUE BOSTON, MA 02111

TEL 617 423 1400 X 35 WEB CONTEXTARC.COM

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DONHAM & SWEENEY IS NOW **CONTEXT ARCHITECTURE**

HE1X Energy Recovery Ventilator EC Motor with Bypass Economizer



ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).

4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

5. DAMPERS SHIPPED LOOSE. FIELD INSTALLATION REQUIRED



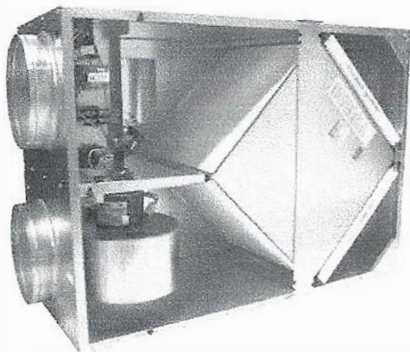
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

EC Motor with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-1,100 CFM**AHRI 1060 Certified Core:** One L125-G5**Standard Features:**

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

54 3/4" L x 23 3/4" W x 35 3/4" H
 207-278 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

63" L x 30" W x 56" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.5 HP ea., Direct drive EC blower/
 motor packages

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Low-leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper 12"
 Motorized isolation damper - both airstreams
 Wall cap 12" - galvanized, paintable galvanneal
 Potentiometer speed control - remote installed
 Digital time clock - wall mount (TC7D-W),
 in exterior enclosure (TC7D-E)
 Carbon dioxide sensor/control -
 wall mount (CO2-W), duct mount (CO2-D)
 IAQ sensor - wall mount (IAQ-W),
 duct mount (IAQ-D)
 Motion occupancy sensor/control -
 ceiling mount (MC-C), wall mount (MC-W)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - RH series (1-11.5 kW);
 EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

HE1XINH EC MOTOR

Sample Points Depicted in Larger Dots

Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

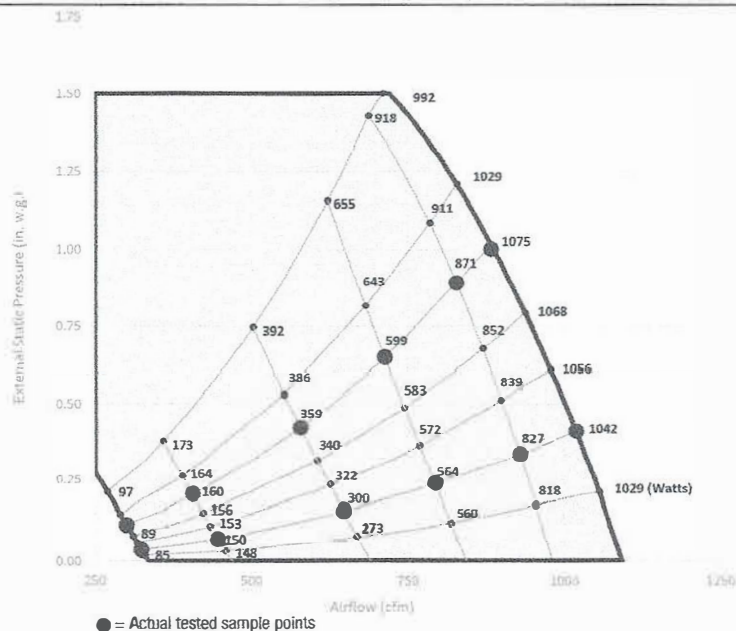
Note: Watts is for the entire unit.

Note: Airflow performance includes effect of clean, standard filter
 supplied with unit.

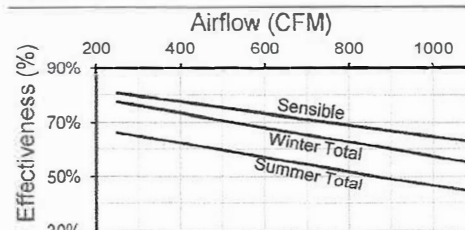
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

Specifications may be subject to change without notice.

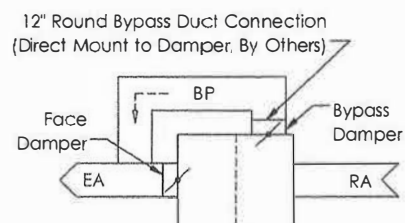


CORE PERFORMANCE

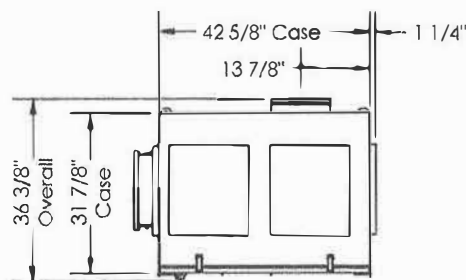


At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

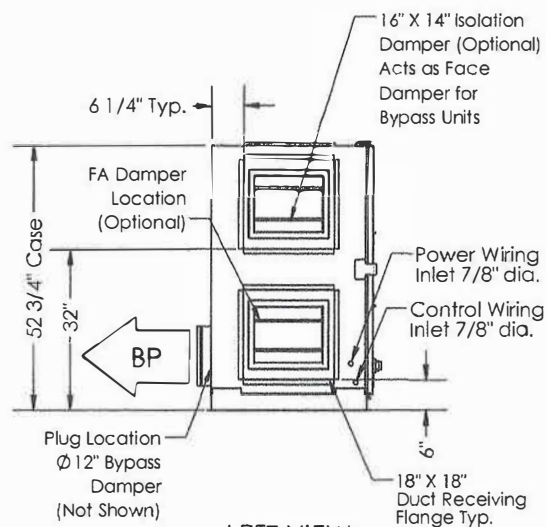
HE1.5X NM Energy Recovery Ventilator EC Motor with Bypass Economizer



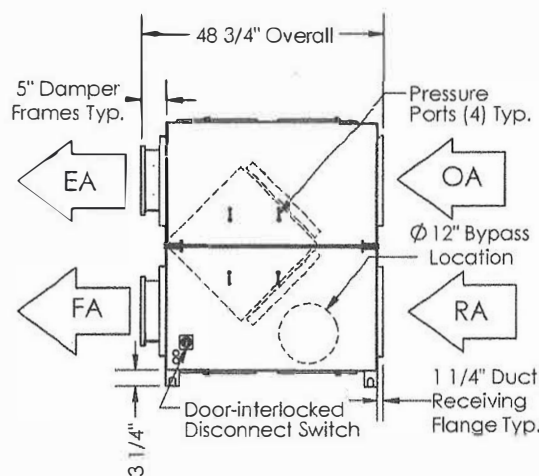
**BYPASS AIRFLOW SCHEMATIC
TOP VIEW**
(OA/FA Airstream Not Shown)



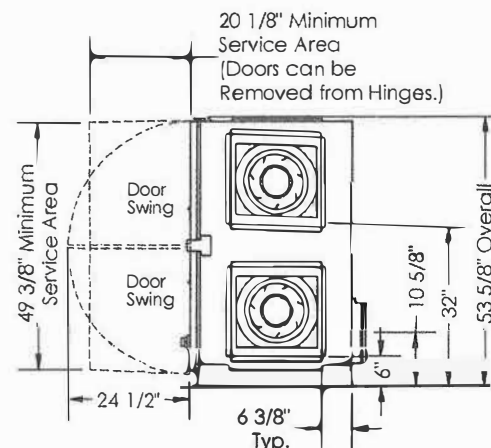
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air outlet

INSTALLATION ORIENTATION

Unit may be installed in any orientation.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).

5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

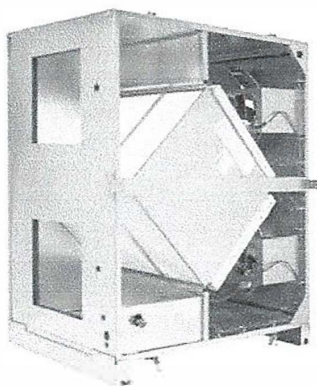


UNIT MOUNTING & APPLICATION

Can be mounted in any orientation. Airstreams can not be switched.

HE 1.5XINH

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

48 3/4" L x 34 1/2" W x 53 3/4" H
 336-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 53" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive EC motorized
 impeller packages

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Potentiometer speed control - remote installed
 Digital time clock - wall mount (TC7D-W),
 in exterior enclosure (TC7D-E)
 Carbon dioxide sensor/control -
 wall mount (CO2-W), duct mount (CO2-D)
 IAQ sensor - wall mount (IAQ-W),
 duct mount (IAQ-D)
 Motion occupancy sensor/control -
 ceiling mount (MC-C), wall mount (MC-W)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

HE1.5XINH EC MOTOR

Sample Points Depicted in Larger Dots

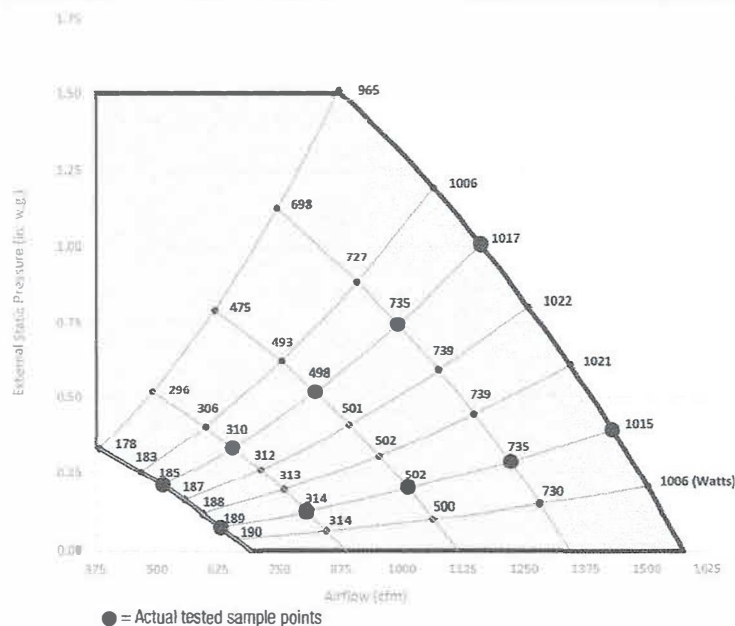
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
630	0.07	189
807	0.12	314
1014	0.20	502
1222	0.28	735
1430	0.39	1015
513	0.20	185
656	0.33	310
825	0.52	498
994	0.74	735
1163	1.01	1017

Note: Watts is for the entire unit.

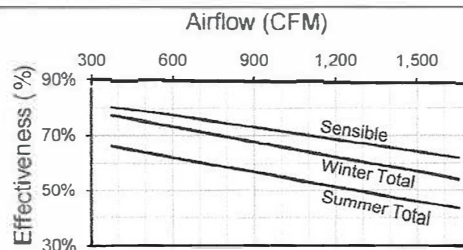
Note: Airflow performance includes effect of clean, standard filter
 supplied with unit.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	8.0	18.0	20
1.0	208-230	60	Single	6.2	14.0	15



CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

**Newbury Police HQ
cost components 4-26-19**

	A	B	C	D	E	F	G	H	I
		Budget	contract	change order	Net change	Previous payment	Current payment	Balance to finish	Forecast to Complete
1	Estimate of Probable costs								
2	Construction costs (9,400SF)	\$ 5,170,000							
3	Communication tower	\$ 100,000							
4	Escalation								
5	Bid Contingency								
6									
7	SOFT COSTS								
8	Design & Engineering								
9	Architectural and Engineering fees	\$ 620,000							
10	<i>Allowance for extra services and Owner changes</i>	\$ -							
11	Reimbursable expenses	\$ 7,500							
12	Furnishing Design fee	\$ -							
13	Tel/Data & Security Consultant	\$ 20,000							
14	<i>Communications Tower Design</i>	\$ 4,000							
15									
16	Professional Services								
17	Owners Project Manager & Clerk of the Works	\$ 233,000							
18	<i>Geotechnical Engineering & Borings</i>	\$ -							
19	MEP Commissioning	\$ 30,000							
20	Construction Testing	\$ 30,000							
21									
22	Fixtures, Furnishings & Equipment								
23	Furnishings & Equipment (incl HD storage)	\$ 155,000							
24	Allowance for Computer Equip. & Network	\$ 250,000							
25	Allowance for Dispatch Equipment	\$ -							
26	Allowance for Telephone System & Equip.	\$ 50,000							
27	Allowance for Security & CCTV System	\$ 144,000							
28									
29	Project Related Expenses								
30	Topographic and Utility Survey	\$ -							
31	Printing bid sets & advertising	\$ 5,000							
32	<i>Moving Expenses</i>	\$ 10,000							
33	<i>Utility Fees & Backcharges</i>	\$ 35,000							
34	Temp Housing, Utilities & Apparatus Garage	\$ -							
35									
36	Project Contingency (10%)	\$ 517,000							
37									
38	PROJECT TOTAL	\$ 7,380,500				\$ -	\$ -	\$ -	\$ -

Newbury Police HQ
cost components 1-7-19 to 4-26-19

	A	B	C	D	E	F	G	H	I
1	Estimate of Probable costs dated:	4/26/2019	4/16/2019	3/27/2019	2/6/2019	1/7/2019			
2	Construction costs (9,400SF)	\$ 5,170,000	\$5,170,000	\$ 5,170,000	\$ 4,230,000	\$ 4,185,000.00			
3	Communication tower	\$ 100,000	\$100,000	\$ 100,000	\$ 100,000	\$ 100,000.00			
4	Escalation			\$ 171,400	\$ 171,400	\$ 171,400.00			
5	Bid Contingency								
6									
7	SOFT COSTS								
8	Design & Engineering								
9	Architectural and Engineering fees	\$ 620,000	\$620,000	\$ 620,000	\$ 620,000	\$ 551,000.00			
10	<i>Allowance for extra services and Owner changes</i>	\$ -	\$28,000	\$ 28,000	\$ 28,000	\$ 28,000.00			
11	Reimbursable expenses	\$ 7,500	\$7,500	\$ 7,500	\$ 7,500	\$ 7,500.00			
12	Furnishing Design fee	\$ -	\$-	\$ -	\$ -	\$ -			
13	Tel/Data & Security Consultant	\$ 20,000	\$20,000	\$ 20,000	\$ 20,000	\$ 20,000.00			
14	<i>Communications Tower Design</i>	\$ 4,000	\$40,000	\$ 40,000	\$ 40,000	\$ 40,000.00			
15									
16	Professional Services								
17	Owners Project Manager & Clerk of the Works	\$ 233,000	\$233,000	\$ 233,000	\$ 233,000	\$ 173,000.00			
18	<i>Geotechnical Engineering & Borings</i>	\$ -	\$25,000	\$ 25,000	\$ 25,000	\$ 25,000.00			
19	MEP Commissioning	\$ 30,000	\$30,000	\$ 30,000	\$ 30,000	\$ 30,000.00			
20	Construction Testing	\$ 30,000	\$30,000	\$ 30,000	\$ 30,000	\$ 30,000.00			
21									
22	Fixtures, Furnishings & Equipment								
23	Furnishings & Equipment (incl HD storage)	\$ 155,000	\$155,000	\$ 155,000	\$ 155,000	\$ 155,000.00			
24	Allowance for Computer Equip. & Network	\$ 250,000	\$250,000	\$ 250,000	\$ 250,000	\$ 250,000.00			
25	Allowance for Dispatch Equipment	\$ -	\$-	\$ -	\$ -	\$ -			
26	Allowance for Telephone System & Equip.	\$ 50,000	\$50,000	\$ 50,000	\$ 50,000	\$ 50,000.00			
27	Allowance for Security & CCTV System	\$ 144,000	\$144,000	\$ 144,000	\$ 144,000	\$ 144,000.00			
28									
29	Project Related Expenses								
30	Topographic and Utility Survey	\$ -	\$-	\$ -	\$ -	\$ -			
31	Printing bid sets & advertising	\$ 5,000	\$5,000	\$ 5,000	\$ 5,000	\$ 5,000.00			
32	<i>Moving Expenses</i>	\$ 10,000	\$40,000	\$ 40,000	\$ 40,000	\$ 40,000.00			
33	<i>Utility Fees & Backcharges</i>	\$ 35,000	\$100,000	\$ 100,000	\$ 100,000	\$ 100,000.00			
34	Temp Housing, Utilities & Apparatus Garage	\$ -	\$-	\$ -	\$ -	\$ -			
35									
36	Project Contingency (10%)	\$ 517,000	\$517,000	\$ 610,490	\$ 610,490	\$ 610,490.00			
37									
38	PROJECT TOTAL	\$ 7,380,500	\$7,564,500	\$ 7,829,390	\$ 6,889,390	\$ 6,715,390.00	\$ -	\$ -	\$ -

Newbury Police
Progress SCHEDULE
02 May 2019

26 April	BC Meeting: DD Progress Meeting	DD
01 May	Site Plan Review Pre-Application Conference	
15 May	<i>File Site Plan Review Application Submitted</i>	
17 May	BC Meeting: DD Progress Meeting Authorization to begin DD cost estimate and proceed into CD's	
By 06 June	<i>Conservation Commission Application Submitted</i>	
07 June	BC Meeting: DD Cost Estimate - Review DD Cost Estimate	CD
18 June	Conservation Commission Hearing 1 (3rd Tuesdays)	
19 June	Site Plan Review Hearing 1 (1st & 3rd Wednesdays)	
21 June	BC Meeting: Construction Drawings Approval to proceed with CD Cost Estimate	
16 July	Conservation Commission Hearing 2 (if needed)	
17 July	Site Plan Review Hearing 2 (if needed)	
19 July	BC Meeting: Construction Drawings Final Review - Present CD Cost Estimate Approval to proceed with Bidding project	
31 July	Project released for Construction Bids	BID
29 August	Filled Sub Bids Due	
12 September	GC Bids Due, CTX/OPM check bid results	BUILD
23 September	Contract Signed, Notice to Proceed	
22 October	Fall STM	
22 September 2020	Substantial Completion	

