Public Facilities Committee Agenda

City of Newton
In City Council

Wednesday, October 6, 2021

The Public Facilities Committee will hold this meeting as a virtual meeting on Wednesday, October 6, 2021 at 7:00 pm. To view this meeting using Zoom use this link: https://us02web.zoom.us/j/89998685068 or call 1-646-558-8656 and use the following Meeting ID: 899 9868 5068

Item Scheduled for Discussion:

#355-21 **Appointment of Alan Gordon to the Sustainable Materials Management Commission**
HER HONOR THE MAYOR appointing Alan Gordon, 47 Caroline Park, Newton 02468 to the Sustainable Materials Management Commission for a term of office to expire October 18, 2024. (60 days: 11/19/21)

Public Hearing

#357-21 **National Grid petition for grant of location in Carlson Avenue**
NATIONAL GRID petition for a grant of location to install and maintain gas main in Carlson Ave as follows:

- 650'± of 4" plastic main in Carlson Avenue from the existing 4" plastic STUB at the intersection of Carlson Avenue and Appleton Circle;
- 250'± of 2" plastic service, extending from the proposed main extension

Public Hearing

#370-21 **National Grid petition for grant of location in Bridge Street**
NATIONAL GRID petition for a grant of location to install and maintain 260'± of 8" plastic main extending from Linwood Avenue to #90 Bridge Street. (Ward 1)

#356-21 **Reappointment of Karen Slote to the Sustainable Materials Management Commission**
HER HONOR THE MAYOR reappointing Kare Slote, 117 Garland Road, Newton Centre 02459 to the Sustainable Materials Management Commission for a term of office to expire September 30, 2024. (60 days: 11/19/21)

The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require assistance. If you need a reasonable accommodation, please contact the city of Newton's ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: jfairley@newtonma.gov or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

Chair's Note: *It is the Chair's intent to entertain a motion of no action necessary on the following item.*

Referred to Public Facilities and Finance Committees

#366-20 **Appropriate $150,000 for the rehabilitation of the Bullough's Pond Dam**
HER HONOR THE MAYOR requesting authorization to appropriate and expend one hundred and fifty thousand ($150,000) from Acct # 6200-3240 Stormwater Management Fund Surplus for the purpose of funding engineering design services and permitting fees for the rehabilitation of the Bullough's Pond Dam.
City Council recommitted on 10/05/2020
Finance voted No Action Necessary 7-0 on 09/27/2021

Chair's Note: *The Committee will meet jointly with Programs & Services to discuss the following two items. The link for this portion of this meeting is as follows: https://us02web.zoom.us/j/82134981403*

Referred to Public Facilities and Programs & Services Committee

#249-21 **Update on the NewCAL project**
HER HONOR THE MAYOR requesting the opportunity to provide a NewCAL project update to the Public Facilities and Programs & Services Committees.
Programs & Services Held 6-0 (Councilor Greenberg not voting) on 07/14/2021
Public Facilities Held 6-0 on 07/14/2021

Referred to Public Facilities and Programs & Services Committee

#371-21 **Update on the Lincoln-Eliot Elementary School project**
HER HONOR THE MAYOR requesting the opportunity to provide a Lincoln-Eliot Elementary School project update to the Public Facilities and Programs & Services Committees.

Respectfully submitted,

Alison M. Leary, Chair

355-21

Ruthanne Fuller
Mayor

City of Newton, Massachusetts

Office of the Mayor

Telephone
(617) 796-1100
Fax
(617) 796-1113
TDD/TTY
(617) 796-1089
Email
rfuller@newtonma.gov

September 3, 2021

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton, MA 02459

To the Honorable City Councilors:

I am pleased to appoint Alan Gordon of 47 Caroline Park, Newton 02468 as a member of the Sustainable Materials Management Commission. His term of office shall expire on October 18, 2024 and his appointment is subject to your confirmation.

Thank you for your attention to this matter.

Warmly,

Ruthanne Fuller

Ruthanne Fuller
Mayor

RECEIVED
2021 SEP 13 PM 4:13
CITY CLERK
NEWTON, MA. 02459

Newton, MA Boards & Commissions

Submit Date: Mar 25, 2021

Application Form

Profile

Alan
First Name

Middle Initial

Gordon
Last Name

[redacted]
Email Address

47 Caroline Park
Home Address

Suite or Apt

Newton
City

MA
State

02468
Postal Code

What Ward do you live in?

☑ Ward 5

[redacted]
Primary Phone

Alternate Phone

Harvard University
Employer

Director of Business Development
Job Title

Which Boards would you like to apply for?

None Selected

Interests & Experiences

Please tell us about yourself and why you want to serve.

Why are you interested in serving on a board or commission?

I have always been interested in issues related to sustainability, recycling, climate change, etc. I am very aware of my personal and family impact on the environment. I had solar panels installed at my house in 2012, signed up for Black Earth as soon as it was available in Newton, make frequent trips to Rumford, etc. About 18 months ago I tagged onto a tour of the Avon MRF to understand how the MRF works. I have attended the last 3 or 4 SMMC monthly meetings and would like to join the commission so that I can have a more active role in contributing to their efforts. I think that the issues that SMMC is working on are important and the commission is doing great work, and I look forward to contributing.

Resume_Alan_Gordon.pdf
Upload a Resume

ALAN D. GORDON
47 Caroline Park, Waban, MA 02468
[redacted]

SUMMARY

Senior business professional with extensive expertise in start-up, entrepreneurial environments. Strong communication, leadership, and customer interaction skills. Key contributor to growth of small software companies. Diverse experience in partner alliance, licensing, pre-/post-sales services, product marketing, sales, and technical roles.

EXPERIENCE

HARVARD UNIVERSITY Office of Technology Development (OTD) 2006 – Present
Director of Business Development
Establish and strengthen Harvard's relationship with industry for both sponsored research and licensing of intellectual property.

- Negotiated key licensing agreements with new startups across many industries (Crimson Hexagon, EOS Photonics, GnuBIO, qStream, MetaLenz, Scansorial, and many others).
- Provided guidance and mentorship to startup founders.
- Created and wrote the OTD Startup Guide.
- Network with venture capitalists, angel investors, and other members of the startup ecosystem.
- Established and managed OTD relationship with Osage Venture Partners.
- Key sponsored research agreements included Repsol, Procter & Gamble, Total, Chanel, Candela, Oxford Nanopore, UCB.
- Brought in over $2M in industry research funding each year.
- Negotiated and extended (twice) master agreement with BASF resulting in millions of dollars in research funding and 35-40 distinct projects.
- Completed major master agreements with Facebook, Google, Microsoft, Intel.
- Key trusted adviser on commercialization, startups, patenting to senior faculty such as David Weitz, Federico Capasso, Gary King, Eric Mazur, Ron Walsworth.
- Made patent filing decisions on 40-50 new invention disclosures annually.
- Closely manage patent budget and expenses.
- Managed *Business Development Associate*, a 3 year term position reporting to me. Hired replacement every 3 years.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY Technology Licensing Office 2004 – 2006
Technology Licensing Officer
License M.I.T patents and copyrights to start-up and established companies in areas including computer software and hardware and materials science.

CISCO SYSTEMS 1997 – 2003
(acquired WebLine Communications, November 1999)
Manager, Technology Alliances, Cisco CCBU Product Marketing (1999 – 2003)
In charge of technology partner relationships. Lead on a variety of product marketing projects.

- Established and managed relationships with 50+ technology vendors including strategic partners such as Oracle, Siebel, SAP, Peoplesoft, driving key product sales: DirecTV ($3MM), Gateway2000 ($1.5MM).
- Merged existing CCBU partner program into broader Cisco AVVID Program providing partners with consistent approach and additional benefits.
- Drove cross functional team that launched IPCC Express into Cisco channel partner community, resulting in quarterly revenue of $1.5MM, $2.4MM, $3.3MM, $4.1MM over first four quarters.
- Managed business and technical aspects of ACD vendor relationships (Avaya, Nortel, Aspect, others).
- Initiated work for CCBU support of new hardware platforms to drive new revenue opportunities targeting initial revenue $500K in first quarter and 15% quarterly growth.
- Led cross-functional platform team, providing coordinated responses to customers, partners, field sales, and internal product teams on issues such as support for third party software security patches.

Director, Technical Services, WebLine Communications (1997 – 1999)
As fifth employee, performed many functions as the organization grew and evolved: sales, pre-sales, implementation, product management. Assisted in growth of organization from $0 to $10MM annual revenue.

- Started and managed staff of 12 in technical services organization to support sales teams and to provide product implementation, support and training services.
- Managed initial customer implementations, providing reference accounts for future sales efforts.
- Initiated and led weekly calls that offered sales teams a forum for questions, common issues, sharing of information.
- Interfaced with engineering to bring customer and sales feedback to the product development efforts, resulting in significant improvement in product features/functions.
- Oversaw custom development of add-on components to meet specific customer requirements, including a component for Cisco that led to a sale and the eventual acquisition of WebLine by Cisco Systems, Inc.
- Worked with and advised VP Sales on sales forecasting, tracking, strategy, organization.
- Supported sales process to customers such as MCI, Cisco, John Hancock, Fidelity, resulting in sales to these key accounts.
- Developed and delivered sales training for global sales force.

ARTISOFT (STYLUS INNOVATION) 1994 – 1997
Vice President, Sales
Managed sales growth to $7 million of Computer Telephony Product Group. Member of executive team involved in deciding corporate direction/strategy, product plans, marketing activities, hiring decisions.

- Set all policies for sales team, including lead handling and follow up procedures.
- Negotiated contracts for licensing technology from DEC, Lernout & Hauspie and Metasoft.
- Collaborated with VP of Marketing on marketing strategy, advertising, and direct mail.
- Worked with VP of Development to determine features and priorities for new releases and new products.
- Wrote and maintained technical documents to support sales efforts.

SOFTWARE QUALITY AUTOMATION 1993 – 1994
Senior Systems Engineer
Supported sales force as senior technical employee in sales department.

- Delivered corporate message to major prospects leading to key sales.
- Contacted and spoke at PowerBuilder user groups around the country, providing new leads for sales.
- Integrated several products with SQA tools, including PowerBuilder and SQLWindows.
- Wrote PowerBuilder sample programs for customer and marketing demonstrations.

EASEL CORPORATION 1989 – 1993
International Support Programs Manager (1991 – 1993)
Supported worldwide network of affiliates and subsidiaries. Aided growth of international from 4% to 25% of Easel Corporation annual revenue.

- Educated technical employees on new products, product updates, and advanced topics.
- Coordinated all technical support given to worldwide distributor network.
- Created several applications to enable our distributors to remotely access databases at Easel Corporation, reducing the support burden on internal resources.
- Defined international product needs and worked to have these added to our products, enabling a broadening of the potential customer base.
- Spoke at Easel User Conference on developing multinational applications.
- Interviewed distributor candidates to locate appropriate organizations to serve as Easel partners.
- Visited prospects in both pre- and post-sales visits, assisting in closing sales and solving customer issues.

Senior Applications Consultant (1989 – 1991)
Managed projects, submitted proposals, and supervised junior consultants.

- Rescued several problem accounts, including Mutual of Omaha, turning unhappy customers to happy, satisfied clients.
- Organized the development and release of the *EASEL Insider's Guides*, a collection of technical white papers which doubled the success rate of new users.
- Generated over $350K in consulting revenue by providing consulting on advanced topics such as system design, GUI design, and project management, to customers such as Amex, Unocal, BCBS.
- Created a tool for EASEL developers that brought in over $1 million in revenue in two years.

DESIGN OPTIONS, INC. 1987 – 1989
Staff Consultant
Consultant in the field of computer systems analysis, design, and programming.

- Led the design, analysis, programming, and implementation of a machine and tool maintenance system for AT&T.
- Gathered system requirements successfully, delivering a solution that was rolled out to additional sites.

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
B.S. in Materials Science and Engineering
Teaching assistant, IBM Research Intern, freshman and varsity crew

OUTSIDE ACTIVITIES

Volunteer Tutor, Newton ELL Program, 2016-present
Board Member, MIT Enterprise Forum of Cambridge, 2010-2016
Start-Up Committee, MIT Enterprise Forum of Cambridge, 2004-2016
Board Member, VP Travel Program, Newton Youth Soccer, 2005-2012
Technology Committee, Center for Blood Research (CBR Institute), 2005-2008

357-21

CITY OF NEWTON
MASSACHUSETTS

PETITION for GRANT OF LOCATION

To the Petitioner:

City of Newton Ordinance Section 23-52 requires that each petition for grant of location be submitted to the City Council before it is sent to the Public Works Department for a preliminary review. The comments of the Public Works Commissioner will be part of the record submitted to the City Council. Upon filing with the City Council, the petition will be scheduled for a public hearing before the Public Facilities Committee of City Council. **The petitioner is responsible for insuring that the petition is complete, and all required materials are in order for review.** Attached please find the City Engineer's Standard Requirements for Plans and the Department of Public Works Permit Processing brochure.

Grant of Location Process:

1. Applicant submits completed Petition Form and required materials to the City Council
2. Public Works Department conducts preliminary review and gives written comments to the applicant
3. Engineering Division files Petition Form with comments with the Clerk of the City Council
4. City Council schedules petition for a public hearing before the Public Facilities Committee of the City Council
5. Public Facilities Committee recommendations are forwarded to the City Council for a final decision

Questions may be directed to:

Lou Taverna, City Engineer, 617-796-1020
Cassidy Flynn, Clerk of the Public Facilities Committee 617-796-1213

I. IDENTIFICATION (Please Type or Print Clearly)

Company Name NATIONALGRID

Address 201 Rivermoor Street
West Roxbury, MA 02132

Phone Number 617-894-3896 Fax Number _____

Contact Person Mary Mulroney Title Permit Representative

Mary Mulroney August 18, 2021

Signature _____ Date _____
Person filing application

If a telecommunications company, indicate how certified by the Department of Telecommunications and Energy:

II. DESCRIPTION OF PROJECT: to be completed by petitioner

A. Write here or attach a description of the project including, location, proposed time frame for completion, type of materials to be used, benefit provided to the City, project mitigation plan as applicable, street reconstruction plan including timetable for completion.

Install and maintain up to 650 feet of 4-inch Plastic main, extending from the existing 4-inch Plastic (2012) STUB at the intersection of Carlson Ave and Appleton Circle, Newton
To install approximately 250 feet of 2-inch Plastic service, extending from the proposed main extension.

B. Include or attach a sketch to provide a visual description of the project. If plans are attached, provide:
Title of Plan _____ Date of plan _____

III. PUBLIC WORKS DEPARTMENT REVIEW

Date received by Public Works Department August 25, 2021

Check One:
Minor Project ☑ Major Project ☐ Lateral ☐

(Refer to City Engineer Standard Requirements for Plans for definition of minor and major project)

Plans Submitted:
Certified Plot Plan ☐ Stamped Plans ☐

DATE AND COMMENTS:	RECOMMENDATIONS:
Only the first 295 feet of proposed gas main from the point of connection at the intersection of Appleton Circle & Carlson Road is within the Public way the remainder is on the private portion of Carlson Road. Prior to any construction the contractor off record must obtain Trench and Street Opening Permits. Backfill of the trench shall be to 95% Proctor Test restoration of the pavement shall be a permanent trench restoration per City Standards. Pedestrian access around the construction zone shall	be to DPW standards, catch basins within the construction shall have siltation controls in place and maintained for the duration. Upon completion an as built plan in PDF format shall be submitted to the DPW. All sidewalks & sideline restoration shall to City standards. *John Daghlian, Associate City Engineer* *September 13, 2021*

V. RECOMMENDATION TO PUBLIC FACILITIES COMMITTEE:

Commissioner, Public Works

9/13/2021
Date

PETITION OF NATIONAL GRID FOR GAS MAIN LOCATIONS

City of Newton / City Council:

The Nationalgrid hereby respectfully requests your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the **City of Newton** and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

Install and maintain up to 650 feet of 4-inch Plastic main, extending from the existing 4-inch Plastic (2012) STUB at the intersection of Carlson Ave and Appleton Circle, Newton
To install approximately 250 feet of 2-inch Plastic service, extending from the proposed main extension.

Date: **August 18, 2021**

By: *Mary Mulroney*
Mary Mulroney
Permit Representative

City of Newton / City Council:

IT IS HEREBY ORDERED that the locations of the mains of the Nationalgrid for the transmission and distribution of gas in and under the public streets, lanes, highways and places of the **City of Newton** substantially as described in the petition date **August 18, 2021** attached hereto and hereby made a part hereof, and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and/or accomplish the objects of said Company, and the digging up and opening the ground to lay or place same, are hereby consented to and approved.

The said Nationalgrid shall comply with all applicable provisions of law and ordinances of the **City of Newton** applicable to the enjoyment of said locations and rights.

Date this _____ day of _____, 20____.

I hereby certify that the foregoing order was duly adopted by the _____ of the City of _____, MA on the _____ day of _____, 20____.

By: _____

_____
Title

WO #1412407

LAST NAME	FIRST NAME	SITUS_LINE1	SITUS_LINE2	SITUS_LINE3	MAIL_LINE1	MAIL_LINE2	MAIL_LINE3	GAS_ACCTS
LIBSON	EKATERINA	15 CARLSON AVE	NEWTON MA	02459-3306	15 CARLSON AVE	NEWTON MA	02459-3306	1
SHRAYBER	INGA	20 CARLSON AVE	NEWTON MA	02459-3311	20 CARLSON AVE	NEWTON MA	02459-3311	1
ARIA	F OLUMI T	40 CARLSON AVE	NEWTON MA	02459-3312	200 BROOKLINE ST	NEWTON MA	02459-2803	
JACKSON	LORI BETH T	41 CARLSON AVE	NEWTON MA	02459-3307	41 CARLSON AVE	NEWTON MA	02459-3307	
BARTFIELD	MORRIS	49 CARLSON AVE	NEWTON MA	02459-3307	49 CARLSON AVE	NEWTON MA	02459-3307	
MILGRAM	ELIAS	50 CARLSON AVE	NEWTON MA	02459-3312	50 CARLSON AVE	NEWTON MA	02459-3312	

LAST NAME	FIRST NAME	SITUS_LINE1	SITUS_LINE2	SITUS_LINE3	MAIL_LINE1	MAIL_LINE2	MAIL_LINE3	GAS_ACCTS
YEE	JASON V	9 APPLETON CIR	NEWTON MA	02459-3305	9 APPLETON CIR	NEWTON MA	02459-3305	1
PLATT	DAVID	12 APPLETON CIR	NEWTON MA	02459-3305	12 APPLETON CIR	NEWTON MA	02459-3305	
HENSCH	TAKAO	19 APPLETON CIR	NEWTON MA	02459-3305	19 APPLETON CIR	NEWTON MA	02459-3305	1
APPLETON T		22 APPLETON CIR	NEWTON MA	02459-3305	22 APPLETON CIR	NEWTON MA	02459-3305	1
VOLOBUYEVA	MARINA	25 APPLETON CIR	NEWTON MA	02459-3305	20 LINDEN ST # 202	ALLSTON MA	02134-1711	1

LAST NAME	FIRST NAME	SITUS_LINE1	SITUS_LINE2	SITUS_LINE3	MAIL_LINE1	MAIL_LINE2	MAIL_LINE3	GAS_ACCTS
PANDEY	JENNIFER M & PRAKASH	7 DOROTHY RD	NEWTON MA	02459-3308	7 DOROTHY RD	NEWTON MA	02459-3308	1
PRICE	MICHAEL J	12 DOROTHY RD	NEWTON MA	02459-3308	12 DOROTHY RD	NEWTON MA	02459-3308	1
WEINOGRAD	BRUCE G	20 DOROTHY RD	NEWTON MA	02459-3308	20 DOROTHY RD	NEWTON MA	02459-3308	
KENNEDY	KAREN R	21 DOROTHY RD	NEWTON MA	02459-3308	21 DOROTHY RD	NEWTON MA	02459-3308	1
SLOPAK	JULIA	28 DOROTHY RD	NEWTON MA	02459-3308	28 DOROTHY RD	NEWTON MA	02459-3308	

70 Carlson Ave, Newton #1412407

All Grants of Location for the City of Newton must answer the following in detail:

A. Are there any leaks on this road? If yes, how many?
   a. There are no leaks in this road. - DBrack

B. If not, why is the gas main being extended or replaced?
   a. The main is being extended to provide service to newly constructed buildings further down the road. -DBrack

C. Is it in response to upcoming roadwork or new development?
   a. It is in response to new development. -DBrack

D. Is capacity increasing? If yes, why?
   a. Capacity is increasing due to the new development. -DBrack

Requested by the Commissioner: When NationalGrid engineers develop the GOL plans these standard questions be answered in a written format & submitted with the GOL package.

357-21

NATIONAL GRID
APPROX. 650' OF 4" MDPE (22 PSIG) GAS MAIN INSTALLATION &
APPROX. 250' OF 2" MDPE (22 PSIG) GAS SERVICE INSTALLATION
70 CARLSON AVE, NEWTON, MA
W.O. NO.: 1412407

LOCUS
SCALE: NTS

INDEX OF SHEETS		
PAGE	NAME	TITLE
1	NEW-1412407-01	COVER SHEET
2	NEW-1412407-02	CONSTRUCTION NOTES
3	NEW-1412407-03	BILL OF MATERIALS
4	NEW-1412407-04	PROPOSED INSTALLATION PLAN OVERVIEW
5	NEW-1412407-05	PROPOSED INSTALLATION PLAN SHEET 1 OF 2
6	NEW-1412407-06	PROPOSED INSTALLATION PLAN SHEET 2 OF 2
7	NEW-1412407-07	PROPOSED LOCATION DETAIL SHEET 1 OF 1
8	NEW-1412407-08	MISCELLANEOUS DETAIL 1 OF 2
9	NEW-1412407-09	MISCELLANEOUS DETAIL 2 OF 2

811 DigSafe MA.RI.NH.ME.VT

Architecture Engineering Environmental Land Surveying
BL Companies

COMMONWEALTH OF MASSACHUSETTS — ANDREW JOSEPH CAVALLO — MECHANICAL — No. 54284 — REGISTERED PROFESSIONAL ENGINEER
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

COVER SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	D. CASTANO	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

PAGE 1 OF 9

DRAWING NO.	SHEET NO.
NEW-1412407-01	G-001

357-21

CONSTRUCTION NOTES

SCOPE OF WORK

NATIONAL GRID WORK ORDER NUMBER 1412407:

70 CARLSON AVE, NEWTON, MA

GAS OPERATIONS ENGINEERING APPROVES THE PROPOSED LOAD OF 2,174 CFH CONTINGENT UPON:

MAIN EXTENSION: THE INSTALLATION OF UP TO 650FT OF NEW 4-INCH PL 22 PSIG MAIN, EXTENDING FROM THE EXISTING 4-INCH PL 22 PSIG (2012) STUB AT THE INTERSECTION OF CARLSON AV AND APPLETON CIR (NEW). (MAIN EXTENSION: ME00020033)

SERVICE: INSTALL OF APPROXIMATELY 250FT OF 2-INCH PL 22 PSIG SERVICE, EXTENDING FROM THE PROPOSED MAIN EXTENSION DESCRIBED ABOVE.

1 MAIN CONNECTION / CUT OFF.

GENERAL

1 NO FIELD CHANGES SHALL BE MADE TO THIS DESIGN WITHOUT APPROVAL FROM THE ASSIGNED NATIONAL GRID ENGINEER:

ENGINEER: DAN BRACK

PHONE: (774) 245-3923

EMAIL: DANIEL.BRACK@NATIONALGRID.COM

2 CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED.

3 CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.

4 NEW MAINS SHOULD BE INSTALLED IN ACCORDANCE WITH THE TYPICAL TRENCH DETAIL INCLUDED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.

A 36 INCHES OF COVER FROM FINAL GRADE WHERE PRACTICAL.

B STATE HIGHWAY MINIMUM COVER: 36 INCHES

C DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES

D SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.

E CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

5 SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.

A MINIMUM IN PUBLIC ROW: 18 INCHES

B MINIMUM IN PRIVATE PROPERTY: 12 INCHES

C SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.

D CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.

6 REFER TO CNST-6030 FOR SHALLOW MAINS. PRIOR TO INSTALLING GAS MAINS WITH LESS THAN 24 INCHES OF COVER, COMPLETE REQUEST FOR WAIVER FORM AND CONTACT GAS PIPELINE SAFETY & COMPLIANCE FOR APPROVAL:

A JENNIFER GILLIS - (617) 594-5157
(MA EXCLUDING CAPE AND WEBSTER)

B LIEN GAUTHIER - (617) 438-9069
(MA EXCLUDING CAPE AND WEBSTER)

C IF A PROPOSED TOP TEE CONNECTION RESULTS IN A SHALLOW MAIN THAT CANNOT MEET THE WAIVER CRITERIA, A FULL TEE CONNECTION IS AN ACCEPTABLE ALTERNATIVE. A SPHERICAL TEE IS ONLY ACCEPTABLE WITH APPROVAL FROM NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.

7 ALL MAINS SHOULD BE INSTALLED WITH CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.

A DISTRIBUTION MINIMUM CLEARANCE: 6 INCHES

B APPROPRIATE PROTECTIVE MEASURES SHALL BE USED TO PROTECT THE GAS FACILITY IF MINIMUMS CANNOT BE ATTAINED. APPROVAL IS REQUIRED BY GAS SYSTEMS ENGINEERING.

8 THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 3 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE ACTUAL ROUTE AND ALL VERTICAL AND HORIZONTAL OFFSETS ARE TO BE FIELD ROUTED WITHIN THE PUBLIC RIGHT-OF-WAY BASED ON THE ACTUAL LOCATION OF EXISTING UTILITIES. ADDITIONAL FITTINGS NOT SHOWN WILL BE REQUIRED.

A ELBOWS SHOWN ARE ASSUMED TO BE 45 DEGREES IN MOST APPLICATIONS. 90 DEGREE ELBOWS MAY BE NEEDED BASED ON FIELD CONDITIONS.

9 VALVES DEPICTED IN THE DESIGN ARE THE MINIMUM REQUIRED FOR SECTIONALIZING, ISOLATION, CRITICAL VALVES, AND/OR TO ACCOMMODATE TIE-INS. ADDITIONAL FULL PORT VALVES MAY BE ADDED TO ACCOMMODATE CONSTRUCTION.

A VALVES FOR BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.

10 ELECTROFUSION COUPLINGS MAY BE INTERCHANGED WITH BUTT FUSION WHERE APPLICABLE.

11 TIE-IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY:

A REGULATOR STATION WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN LOCATION.

B CHANGE TO THE NUMBER OF CONNECTIONS (ADDITIONAL ADDED FROM AN INTERSECTION OR OTHERWISE).

C MATERIAL/SIZE CHANGE AT NEW LOCATION.

12 NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.

13 WHEN CONNECTING NEW 'DEAD' MAIN TO NEW 'DEAD' MAIN: AS LONG AS THE CONNECTION BRANCH SIZE SHOWN IN THE DRAWINGS CAN BE ACHIEVED, THE FOLLOWING CONNECTION TYPES ARE ACCEPTED AND INTERCHANGEABLE.

A INLINE TEE

B PLASTIC HIGH VOLUME TAPPING TEE (2" BRANCH SIZE OR LESS)

C PLASTIC BRANCH SADDLE (WITH MAIN CUTTER SIZE SHOWN IN NATIONAL GRID POLICIES)

D STEEL THREE-WAY TEE (WITH MAIN CUTTER SIZE SHOWN IN NATIONAL GRID POLICIES)

14 THE LIVE MAIN CONNECTION DETAIL SHOWN IN THE DRAWINGS SHALL BE FOLLOWED. ANY CHANGES TO THE TIE IN CONNECTION TYPE SHALL BE APPROVED BY THE NATIONAL GRID ENGINEER PRIOR TO CONSTRUCTION.

15 ALL CUSTOMER SERVICES WITHIN THE SCOPE OF MAIN TO BE ABANDONED SHALL BE TRANSFERRED OR RELAYED BY THE CONTRACTOR TO THE NEW MAIN PRIOR TO ABANDONMENT. WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER PRESSURE MAIN, ALL SERVICES SHALL BE RELAYED OR INSERTED.

DESIGN CRITERIA

1 DESIGN IN ACCORDANCE WITH THE FOLLOWING:

A ENG02001: DESIGN OF GAS SERVICES

B ENG04001: DESIGN OF DISTRIBUTION MAINS

C ENG04010: DESIGN REQUIREMENTS FOR INSTALLATION OF CASINGS

2 PROPOSED PIPING:

A DESIGN CLASS LOCATION - 4

B NOMINAL SIZE – 4 INCH, 2 INCH

C MATERIAL – MDPE

D SYSTEM MAOP – 22 PSIG

3 PIPE SIZE DETERMINED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.

CODES & STANDARDS

1 WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES IN ADDITIONAL TO NATIONAL GRID GAS POLICIES AND WORK METHODS. WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.

2 ALL REFERENCES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT REVISION AVAILABLE AT THE TIME OF CONSTRUCTION.

3 FEDERAL & STATE

A TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS

B 220 CMR: DEPARTMENT OF PUBLIC UTILITIES

100.00 - 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE

C AMERICAN SOCIETY OF MECHANICAL ENGINEERS

B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS

4 CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:

A CNST01003: BACKFILL AND RESTORATION

B CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS

C CNST01006: COMMERCIALLY AVAILABLE SHORING SYSTEMS

D CNST02014: ENCAPSULATING CAST IRON JOINTS

E CNST03001: SQUEEZE-OFF OPERATIONS

F CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS

G CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES

a. CNST03006: PURGING OPERATIONS – DIRECT DISPLACEMENT

b. CNST03007: PURGING OPERATIONS – COMPLETE INERT FILL

c. CNST03008: PURGING OPERATIONS – SLUG METHOD

H CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT

I CNST04005: INSTALLING STEEL DISTRIBUTION MAINS

J CNST04007: FIELD COLD BENDING OF LINE PIPE

K CNST04008: INSTALLING PLASTIC MAINS

L CNST04011: ABANDONMENT OF MAINS

M CNST04012: GROUTING ABANDONED PIPELINES

N CNST04030: RAISING MAIN AND SERVICE GATE BOXES

O CNST05001: JOINING OF PLASTIC PIPE

P CNST05011: INSTALLATION OF DRESSER 700 COUPLINGS

Q CNST5010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING

R DAM01011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND

S DAM01015: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES

T DAM01016: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES

U GCON02001: SYSTEM OPERATING PROCEDURE (SOP)

V GEN01100: OPERATOR QUALIFICATION PLAN

W GEN03002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES

X GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS

Y MAIN5030: INSTALLATION OF POLYETHYLENE PIPE

Z MECH5010: JOINTS OTHER THAN WELDED

AA 030018-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES

5 SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:

A CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY

B CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES

C CNST03011: NO-INTERRUPT SERVICE TRANSFER

D CNST06002: INSTALLING DISTRIBUTION SERVICES

E CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED METER CAPACITIES OVER 1,000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES

F CNST06009: METER/SERVICE RELOCATION GUIDELINE

G CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS

H CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE

I CS-SERV001: TYPICAL 1/2" SERVICE OUTSIDE SETS

J CS-SERV002: TYPICAL 1" SERVICE OUTSIDE SETS

K CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS

L CS-SERV004: TYPICAL 2" SERVICE

M CS-SERV005: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES

N CS-SERV009: TYPICAL 1/2" SERVICE INSIDE SETS

O CS-SERV010: TYPICAL 1" SERVICE INSIDE SETS

P HTAP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG MAINS

Q SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE

R SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN - 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL

S VALV6110: 1/2 INCH - 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION

6 SEE TIE IN DETAILS FOR APPLICABLE MAIN CONNECTION REFERENCES.

7 SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION, STANDARD AND/OR APPLICABLE NATIONAL GRID "PITS" REFERENCE.

A FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

PRESSURE TESTING

1 PRESSURE TEST MAIN IN ACCORDANCE WITH:

A CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG

B TEST PRESSURE (MINIMUM): 90 PSIG

C TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1.

D TEST MEDIUM: AIR AND/OR NITROGEN

2 PRESSURE TEST SERVICES IN ACCORDANCE WITH:

A CNST06008 : PRESSURE TESTING SERVICE LINES

CATHODIC PROTECTION

1 IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:

BUTCH VINCENT 617-438-5192 (MA)

2 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.

3 NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:

A COR01100: CORROSION DESIGN CRITERIA

B COR02001: APPLICATION OF COATING SYSTEMS

C COR02020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION

D COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION

E COR03001: TESTING OF PIPE COATING (JEEP TESTING)

F COR04001: INSTALLATION OF MAGNESIUM ANODES

G COR04003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION

H COR04004: INSTALLATION OF WIRE CONNECTIONS

I COR04005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION

J 030031-CS: FACILITY COATING GUIDE

4 CORROSION DESIGN: N/A

ENVIRONMENTAL

1 WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.

2 ENVIRONMENTAL ENGINEERING CONTACT:

ANDREW L. SHELBY

PHONE: (781) 907-1867

EMAIL: ANDREW.SHELBY@NATIONALGRID.COM

3 CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR ENVIRONMENTAL GUIDANCE FORMS, FOR EXAMPLE EG-301, FOR THE RESPECTIVE STATE.

4 WHEN SOILS OR LIQUIDS ARE ENCOUNTERED THAT ARE BELIEVED TO BE CONTAMINATED WITH OIL AND/OR HAZARDOUS MATERIAL, EXCAVATION WORK SHALL BE HAULTED AND FIELD PERSONNEL SHALL NOTIFY THEIR IMMEDIATE SUPERVISOR.

5 NO EXCAVATED SOIL SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.

6 NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:

A SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING

B SHE02002: REMOVING MERCURY REGULATORS AND DEVICES

C SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING

D EG303-NE: BEST MANAGEMENT PRACTICES

E EG140: USED GAS PIPE MANAGEMENT

7 ENVIRONMENTAL REQUIREMENTS: N/A

SAFETY

1 WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.

2 REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.

3 A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.

4 CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART VI AND SHALL BE MAINTAINED BY THE CONTRACTOR.

5 NATIONAL GRID SAFETY PROCEDURES COVER THE FOLLOWING CATEGORIES:

A A- ADMINISTRATIVE; B- INSPECTIONS; C- WALKING WORKING SURFACES; D- MEANS OF EGRESS; E- MATERIAL HANDLING AND STORAGE; F- TOXIC AND HAZARDOUS SUBSTANCES; G- HAZARDOUS MATERIALS; H- PERSONAL PROTECTIVE EQUIPMENT; I- GENERAL ENVIRONMENTAL CONTROLS; J- ACCIDENT INVESTIGATION; K- MACHINERY AND GUARDING; L- WELDING/CUTTING/BRAZING; M- EXCAVATIONS; N- CONTRACTORS; FIRE PROTECTION; Q- FLEET AND ROADWAY SAFETY

6 GAS WORK METHODS SAFETY PROCEDURES INCLUDE:

A SHE01001: GENERAL SAFETY REQUIREMENTS

B SHE01002: SUPPLIED-AIR RESPIRATORS

C SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS

D SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS

E SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE

F SHE01006: ENTERING GAS UTILITY VAULTS

G SHE01008: USING AND MAINTAINING THE GAS-EXPLORER

H SHE01009: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE

I SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES PERFORMED IN THE FIELD

OTHER PERMITTING REQUIREMENTS

1 STREET OPENING PERMIT

2 GRANT OF LOCATION

UTILITY OWNER INFORMATION

1 TOWN OF NEWTON

REFERENCE DRAWINGS

1 LOCATION OF IDENTIFIED UNDERGROUND UTILITIES ARE AN APPROXIMATE BASED ON AVAILABLE RECORD AND FIELD INFORMATION IN ACCORDANCE WITH CI/ASCE 38-02. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT IDENTIFIED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATIONS, ETC.

DESIGN CONSULTANT

1 BL COMPANIES

ANDREW J. CAVALLO, P.E.

PHONE: (781) 619-9515

EMAIL: ACAVALLO@BLCOMPANIES.COM

BL Companies — Architecture, Engineering, Environmental, Land Surveying

COMMONWEALTH OF MASSACHUSETTS — ANDREW JOSEPH CAVALLO — MECHANICAL — No. 54284 — REGISTERED PROFESSIONAL ENGINEER

SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

CONSTRUCTION NOTES

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"x34"	D. CASTANO	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

DRAWING NO.	SHEET NO.
NEW-1412407-02	G-002

357-21

BILL OF MATERIALS						
ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	NATIONAL GRID REFERENCE	SAP ID NUMBER
1	680	FT	PIPE, PLASTIC, MDPE, SDR 11.5	4	120026-MS	9340857
2	250	FT	PIPE, PLASTIC, MDPE, SDR 11 (10' STICKS)	2	120026-MS	9322709
3	2	EA	COUPLING, PLASTIC ELECTROFUSION	4	CS-FIT015	9314593
4	2	EA	COUPLING, PLASTIC ELECTROFUSION	2	CS-FIT015	9314594
5	1	EA	VALVE, BALL, MDPE, RED PORT	4	VALV6020	9341693
6	1	EA	VALVE, BOX ASSEMBLY (FOR RED PORT 4" VALVE)	4	VALV6020	9339891
7	1	EA	VALVE, BALL, MDPE, FULL PORT	2	VALV6020	9341784
8	1	EA	VALVE, BOX ASSEMBLY	2	VALV6020	9339890
9	1	EA	CAP, MDPE, BUTT FUSION	4	CS-FIT010	9339534
10	1	EA	TEE, SERVICE, ELECTROFUSION	4 x 2	CS-FIT015	9342330
11	1	EA	VALVE, PLUG	2	MATL3155	9341980
12	1	EA	RISER, SERVICE, FLANGED, 150# CLASS, 90 DEG	2	MAIN3140	9322622
13	1	EA	FLANGE, BLIND, 150# CLASS, FLAT FACE	2	FITS6110	9382074
14	1	EA	GASKET, RING, 150# CLASS	2	FITS6115	9341161
15	1	EA	INSULATING FLANGE KIT, 150# CLASS	2	FITS6115	9340992
16	8	EA	BOLTS, STUD, W/ 2 HEX HEAD NUTS	5/8 X 4	MATL3130	9392186
17	1	EA	VALVE, EXCESS FLOW VALVE	2	CS-SERV005	9390565
GENERAL						
G1	A/R	FT	TRACER WIRE	-	CNST6061	9315005
G2	A/R	ROLL	YELLOW CAUTION TAPE - GAS MAIN - 6" WIDE	6	CNST6060	9341904
PRESSURE TESTING (TEMPORARY)						
P1	A/R	EA	CAP, MDPE, BUTT FUSION	4	CS-FIT010	9339534
P2	A/R	EA	CAP, MDPE, BUTT FUSION	2	CS-FIT010	9339540

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COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54284
REGISTERED
PROFESSIONAL ENGINEER

SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY
d/b/a
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

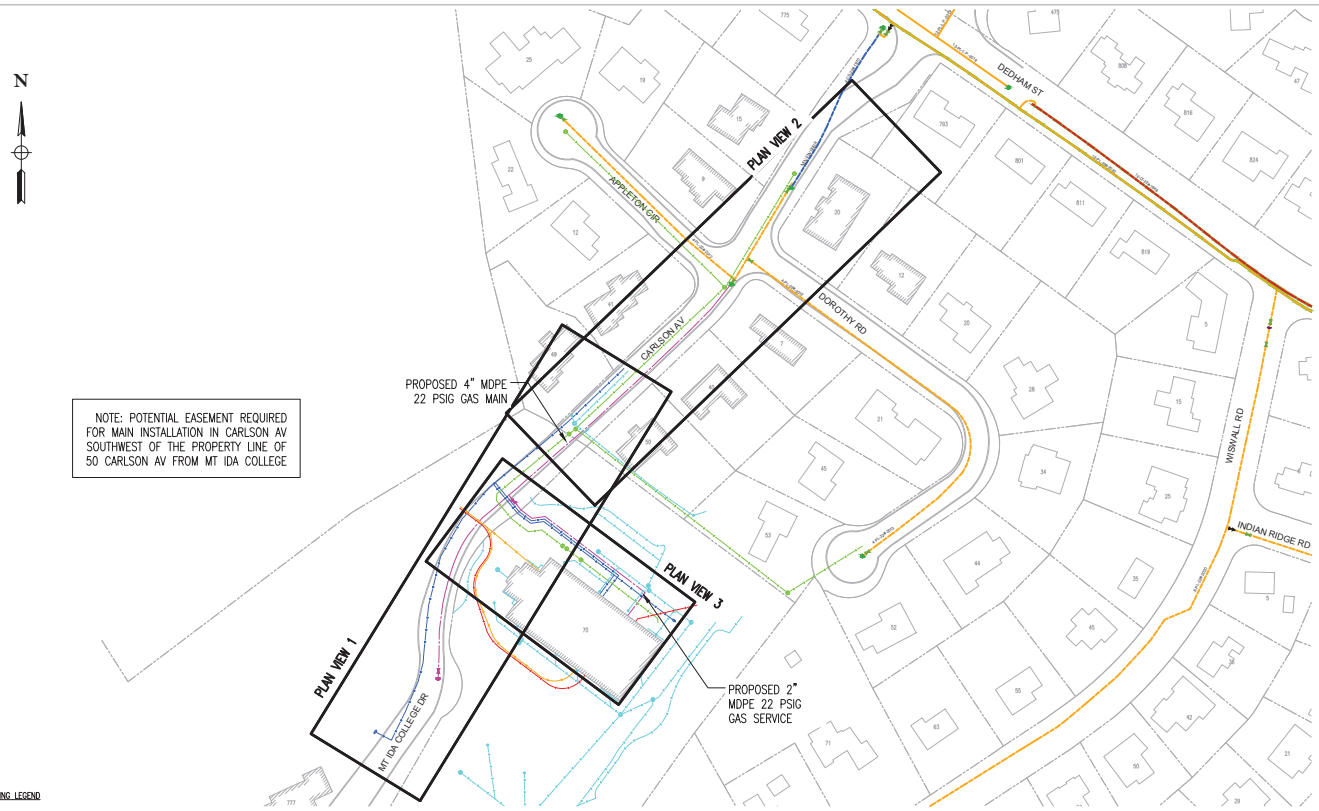
PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

BILL OF MATERIALS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	D. CASTANG	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

DRAWING NO.	SHEET NO.
NEW-1412407-03	G-003

357-21



PLAN OVERVIEW

60 30 0 60

SCALE 1"=60'

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ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54284
REGISTERED PROFESSIONAL ENGINEER

SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

PROPOSED INSTALLATION PLAN OVERVIEW

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	D. CASTANG	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

PAGE 4 OF 9

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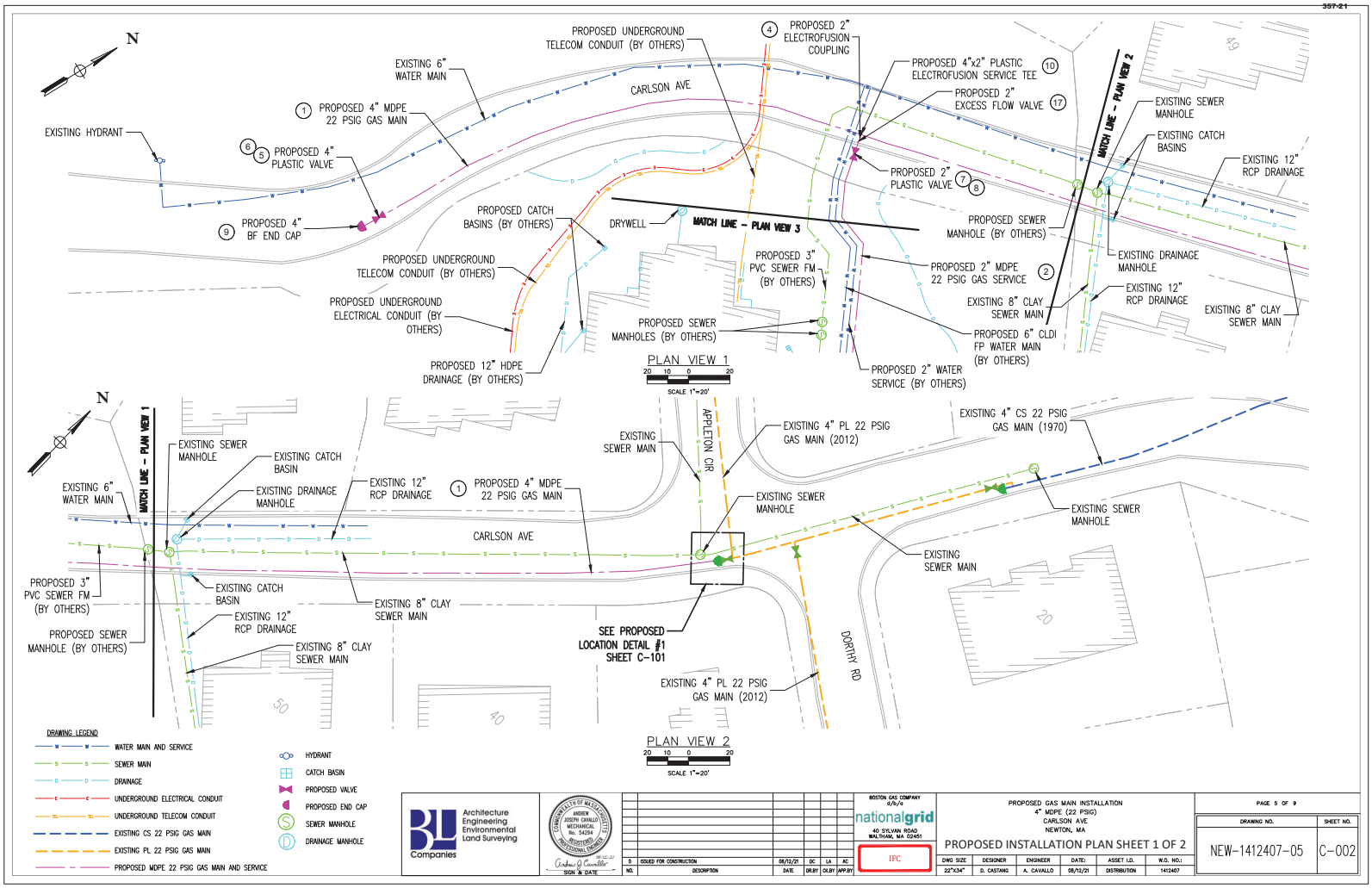
357-21
N
EXISTING HYDRANT
EXISTING 6" WATER MAIN
1 PROPOSED 4" MDPE 22 PSIG GAS MAIN
6 5 PROPOSED 4" PLASTIC VALVE
9 PROPOSED 4" BF END CAP
PROPOSED UNDERGROUND TELECOM CONDUIT (BY OTHERS)
4 PROPOSED 2" ELECTROFUSION COUPLING
CARLSON AVE
PROPOSED 4"x2" PLASTIC ELECTROFUSION SERVICE TEE 10
PROPOSED 2" EXCESS FLOW VALVE 17
PROPOSED 2" PLASTIC VALVE 7 8
EXISTING SEWER MANHOLE
EXISTING CATCH BASINS
EXISTING 12" RCP DRAINAGE
MATCH LINE - PLAN VIEW 2
PROPOSED CATCH BASINS (BY OTHERS)
DRYWELL
MATCH LINE - PLAN VIEW 3
PROPOSED SEWER MANHOLE (BY OTHERS)
PROPOSED UNDERGROUND TELECOM CONDUIT (BY OTHERS)
PROPOSED 3" PVC SEWER FM (BY OTHERS)
PROPOSED 2" MDPE 22 PSIG GAS SERVICE 2
EXISTING DRAINAGE MANHOLE
EXISTING 8" CLAY SEWER MAIN
EXISTING 12" RCP DRAINAGE
EXISTING 8" CLAY SEWER MAIN
PROPOSED UNDERGROUND ELECTRICAL CONDUIT (BY OTHERS)
PROPOSED SEWER MANHOLES (BY OTHERS)
PROPOSED 6" CLDI FP WATER MAIN (BY OTHERS)
PROPOSED 12" HDPE DRAINAGE (BY OTHERS)
PROPOSED 2" WATER SERVICE (BY OTHERS)
PLAN VIEW 1
20 10 0 20
SCALE 1"=20'
N
MATCH LINE - PLAN VIEW 1
EXISTING SEWER MANHOLE
EXISTING CATCH BASIN
EXISTING 6" WATER MAIN
EXISTING DRAINAGE MANHOLE
EXISTING 12" RCP DRAINAGE
1 PROPOSED 4" MDPE 22 PSIG GAS MAIN
EXISTING SEWER MAIN
APPLETON CIR
EXISTING 4" PL 22 PSIG GAS MAIN (2012)
EXISTING 4" CS 22 PSIG GAS MAIN (1970)
EXISTING SEWER MANHOLE
EXISTING SEWER MANHOLE
CARLSON AVE
EXISTING SEWER MAIN
PROPOSED 3" PVC SEWER FM (BY OTHERS)
EXISTING CATCH BASIN
EXISTING 12" RCP DRAINAGE
EXISTING 8" CLAY SEWER MAIN
EXISTING 8" CLAY SEWER MAIN
PROPOSED SEWER MANHOLE (BY OTHERS)
SEE PROPOSED LOCATION DETAIL #1 SHEET C-101
DORTHY RD
EXISTING 4" PL 22 PSIG GAS MAIN (2012)
PLAN VIEW 2
20 10 0 20
SCALE 1"=20'
DRAWING LEGEND
WATER MAIN AND SERVICE
SEWER MAIN
DRAINAGE
UNDERGROUND ELECTRICAL CONDUIT
UNDERGROUND TELECOM CONDUIT
EXISTING CS 22 PSIG GAS MAIN
EXISTING PL 22 PSIG GAS MAIN
PROPOSED MDPE 22 PSIG GAS MAIN AND SERVICE
HYDRANT
CATCH BASIN
PROPOSED VALVE
PROPOSED END CAP
SEWER MANHOLE
DRAINAGE MANHOLE
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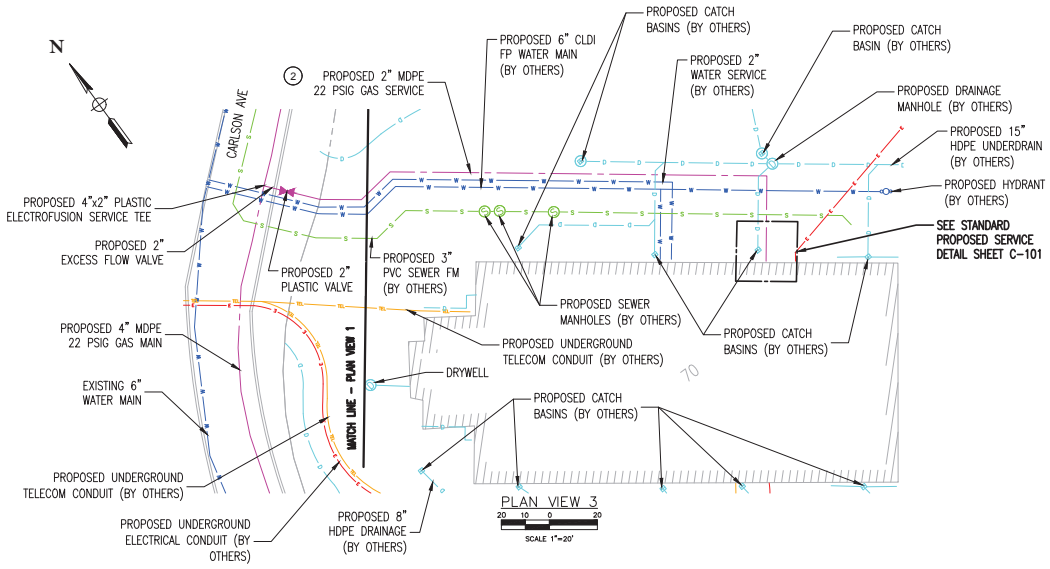
Architecture Engineering Environmental Land Surveying
COMMONWEALTH OF MASSACHUSETTS ANDREW JOSEPH CAVALLO MECHANICAL No. 54284 REGISTERED PROFESSIONAL ENGINEER
SIGN & DATE
0 ISSUED FOR CONSTRUCTION 08/12/21 DC LA AC
NO. DESCRIPTION DATE DR.BY CK.BY APP.BY
BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD WALTHAM, MA 02451
IFC
PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA
PROPOSED INSTALLATION PLAN SHEET 1 OF 2
DWG SIZE 22"X34" | DESIGNER D. CASTANG | ENGINEER A. CAVALLO | DATE: 08/12/21 | ASSET I.D. DISTRIBUTION | W.O. NO.: 1412407
PAGE 5 OF 9
DRAWING NO. NEW-1412407-05
SHEET NO. C-002

357-21



DRAWING LEGEND

- WATER MAIN AND SERVICE
- SEWER MAIN
- DRAINAGE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND TELECOM CONDUIT
- PROPOSED MDPE 22 PSIG GAS MAIN AND SERVICE
- HYDRANT
- CATCH BASIN
- PROPOSED VALVE
- SEWER MANHOLE
- DRAINAGE MANHOLE

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COMMONWEALTH OF MASSACHUSETTS — ANDREW JOSEPH CAVALLO, MECHANICAL, No. 54284, REGISTERED PROFESSIONAL ENGINEER

SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

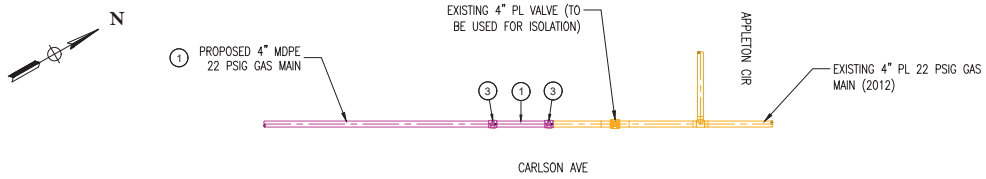
PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

PROPOSED INSTALLATION PLAN SHEET 2 OF 2

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"x34"	D. CASTANG	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

DRAWING NO.	SHEET NO.
NEW-1412407-06	C-003

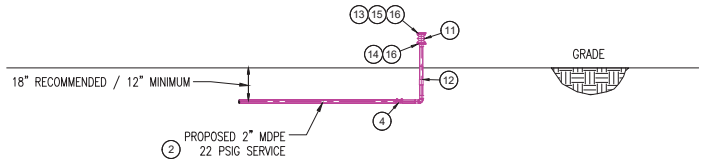
357-21



PROPOSED LOCATION #1 AT CARLSON AVE @ APPLETON CIR

3' 1.5' 0 3'

SCALE: 1"=3'



STANDARD PROPOSED SERVICE LOCATION

3' 1.5' 0 3'

SCALE: 1"=3'

DRAWING LEGEND

EXISTING PL GAS MAIN

PROPOSED MDPE GAS MAIN AND SERVICE

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COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54284
REGISTERED PROFESSIONAL ENGINEER

SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

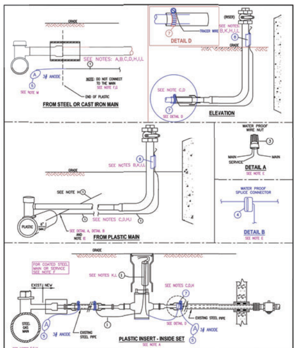
PROPOSED LOCATION DETAIL SHEET 1 OF 1

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	D. CASTANG	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

PAGE 7 OF 9

DRAWING NO.	SHEET NO.
NEW-1412407-07	C-101

357-21

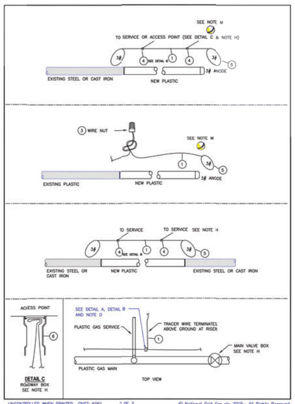


national grid LI-MA-RI-UNY

TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES

REVISIONS: UPDATED ITEM ID'S, REVISED NOTES	DATE: 10/31/2004	EFFECTIVE DATE: 06/25/2020	
	DESIGN: GUGLIOTTA / MCLOUGHLIN	STD. DWG. NO.	CNST-6061
	DRAWN: GUGLIOTTA / DIMAIO		

UNCONTROLLED WHEN PRINTED 1 OF 4



UNCONTROLLED WHEN PRINTED CNST-6061 2 OF 2

		LI/NYC/ MASS	UNY/RI
8	TRACER WIRE SNAP, 2" (represents steel size)	9386134	9386134
8	TRACER WIRE SNAP, 1 ½" (represents steel size)	9386156	9386156
8	TRACER WIRE SNAP, 1" (represents steel size)	9386150	9386150
8	TRACER WIRE SNAP, ¾" (represents steel size)	9385568	9385568
7	CLAMP, STAINLESS	9331708	9307873
6	VALVE BOX, ROADWAY	9339890	9312344 UNY 9311208 RI
5	ANODE, 3 LB MAGNESIUM	9315645	9315645
4	WIRE SPLICE CONNECTOR, WATERPROOF	9308036	9308036
3	WIRE NUT, PLASTIC, WATERPROOF	9331644	9314631
2	WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG	9314187	9314187
1	TRACER WIRE, DIRECT BURY, COPPER, 12 AWG	9315005	9315005
NO.	ITEM	SAP ITEM ID	
	BILL OF MATERIAL		

A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", Item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut out sections of the steel pipe to be inserted with plastic, shall be connected using a section of tracer wire to maintain continuity. If the existing service is coated steel , see Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [COR04003] or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See Installation of Test Stations for Cathodic Protection [030026-CS].

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with Installing Wire Connections [COR04004].

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [COR04003] or contact corrosion department for more guidance.

G. Cast Iron or Bare steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a 3# anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA- Above or alongside, UNY- alongside, RI-Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the riser.

J. For horizontal directional drill installations, use stainless wire, item #2.

K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a 3# anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

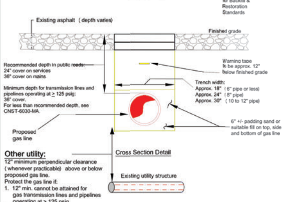
Regional Notes

NYC ONLY: refer to Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services [CNST6060-NYC] for installation of electronic marker ball in place of tracer wire.

UNCONTROLLED WHEN PRINTED 4 OF 4
Effective Date 06/25/2020 CNST-6061

Typical Utility Crossing and Trench Guidelines

See CNST01003 for Backfill & Restoration Standards



Other utility:
12" minimum perpendicular clearance (whenever practicable) above or below proposed gas line.
Protect the gas line if:
1. 12" min. cannot be attained for gas transmission lines and pipelines operating at ≥ 125 psig.
2. 6" min. cannot be attained for distribution mains.
3. 4" min. cannot be attained for services.
Minimum clearance when protection is provided against damage is 2" for all gas lines.

For Backfill and Restoration details, refer to CNST01003 - Backfill and Restoration

national grid MASS.

TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES

Key Changes: REV 0, NEW STANDARD FOR MASS.	DATE: 09/15/2014	EFFECTIVE DATE: 04/15/2019	
	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO.	CS-CNST002-MA
	DRAWN: N. COSTANZO		

UNCONTROLLED WHEN PRINTED 1 OF 1

NOTE: THE ENGINEER OF RECORD HAS REVIEWED THE PROVIDED NATIONAL GRID STANDARD DETAILS AND DETERMINED THEIR APPLICABILITY TO THE WORK IN THIS PACKAGE. THE ENGINEER OF RECORD DOES NOT CERTIFY THE ACCURACY OF ANY REFERENCED STANDARDS OR PROCEDURES NOT DIRECTLY RELATED TO THE WORK DESCRIBED IN THIS PLAN SET.

BL Companies — Architecture, Engineering, Environmental, Land Surveying

COMMONWEALTH OF MASSACHUSETTS — ANDREW JOSEPH CAVALLO — MECHANICAL — No. 54294 — REGISTERED PROFESSIONAL ENGINEER
08/12/21
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

IFC

PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

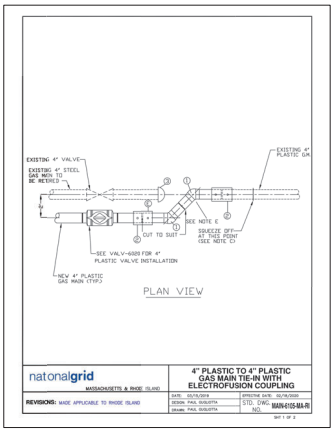
MISCELLANEOUS DETAIL 1 OF 2

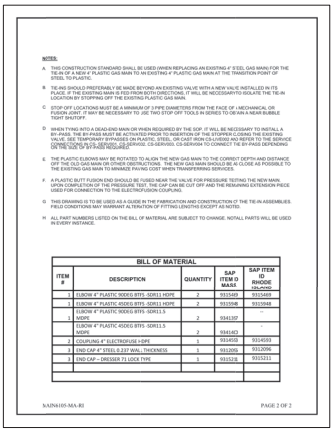
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	D. CASTANG	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

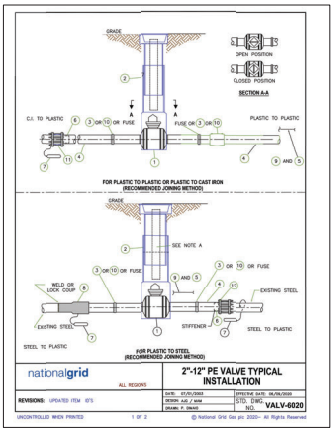
PAGE 8 OF 9

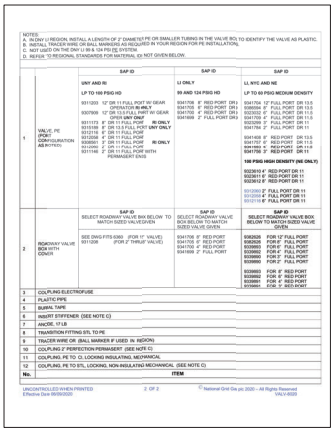
DRAWING NO.	SHEET NO.
NEW-1412407-08	C-201

357-21









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BL Companies
Architecture
Engineering
Environmental
Land Surveying

COMMONWEALTH OF MASSACHUSETTS
ANDREW JOSEPH CAVALLO
MECHANICAL
No. 54294
REGISTERED PROFESSIONAL ENGINEER
SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR CONSTRUCTION	08/12/21	DC	LA	AC

BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451
IFC

PROPOSED GAS MAIN INSTALLATION
4" MDPE (22 PSIG)
CARLSON AVE
NEWTON, MA

MISCELLANEOUS DETAIL 2 OF 2

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	D. CASTANG	A. CAVALLO	08/12/21	DISTRIBUTION	1412407

PAGE 9 OF 9

DRAWING NO.	SHEET NO.
NEW-1412407-09	C-202

Final Label Report

SBL	Owner	Number	Street	Unit
84033 0008	YEE JASON V & MIN X	9	APPLETON CIR	
84033 0012	PLATT DAVID & NAOMI	12	APPLETON CIR	
84033 0009	HENSCH TAKAO	19	APPLETON CIR	
84033 0011	GOLDSTEIN ALVIN TR	22	APPLETON CIR	
84033 0010	VOLOBUYEVA MARINA	25	APPLETON CIR	
84031 0001	UNIVERSITY OF MA BLDG AUTHORITY		CARLSON AVE	
84034 0006A	CHURCH OF JESUS CHRIST		CARLSON AVE	
84033 0006	UNIVERSITY OF MA BLDG AUTHORITY		CARLSON AVE	
84033 0007	LIBSON EKATERINA	15	CARLSON AVE	
84031 0019	SHRAYBER INGA	20	CARLSON AVE	
84032 0005	OLOUMI ARUSHA	40	CARLSON AVE	
84033 0013	JACKSON LORI BETH TR	41	CARLSON AVE	
84033 0014	BARTFIELD MORRIS	49	CARLSON AVE	
84032 0004	MILGRAM ELIAS	50	CARLSON AVE	
84033 0005	AVIKSIS DAVID	775	DEDHAM ST	
84031 0002	LIU HAI	793	DEDHAM ST	
84032 0006	PANDEY PRAKASH & JENNIFER M	7	DOROTHY RD	
84031 0018	PRICE MICHAEL J & MARILYN	12	DOROTHY RD	
84031 0017	WEINOGRAD BRUCE G & MARIE M	20	DOROTHY RD	
84032 0001	KENNEDY KAREN R	21	DOROTHY RD	
84031 0016	SLOPAK JULIA & DMITRI	28	DOROTHY RD	
84031 0015	ANANTHASUBRAMANIAN KRISHNAKUMAR	34	DOROTHY RD	
84031 0014	SHIRANIAN AMIR	44	DOROTHY RD	
84032 0002	MISHRA RANJAN	45	DOROTHY RD	
84031 0013	KOMINIK JONATHAN & DARBY	52	DOROTHY RD	
84032 0003	MELODIA TOMMASO	53	DOROTHY RD	
84034 0004	CHARLES RIVER COUNTRY CLUB INC	200	NAHANTON ST	

370-21

CITY OF NEWTON
MASSACHUSETTS

RECEIVED
Newton City Clerk
2021 AUG 24 AM 9:58

PETITION for GRANT OF LOCATION

To the Petitioner:

City of Newton Ordinance Section 23-52 requires that each petition for grant of location be submitted to the City Council before it is sent to the Public Works Department for a preliminary review. The comments of the Public Works Commissioner will be part of the record submitted to the City Council. Upon filing with the City Council, the petition will be scheduled for a public hearing before the Public Facilities Committee of City Council. **The petitioner is responsible for insuring that the petition is complete, and all required materials are in order for review.** Attached please find the City Engineer's Standard Requirements for Plans and the Department of Public Works Permit Processing brochure.

Grant of Location Process:

1. Applicant submits completed Petition Form and required materials to the City Council
2. Public Works Department conducts preliminary review and gives written comments to the applicant
3. Engineering Division files Petition Form with comments with the Clerk of the City Council
4. City Council schedules petition for a public hearing before the Public Facilities Committee of the City Council
5. Public Facilities Committee recommendations are forwarded to the City Council for a final decision

Questions may be directed to:

Lou Taverna, City Engineer, 617-796-1020
Cassidy Flynn, Clerk of the Public Facilities Committee 617-796-1213

I. IDENTIFICATION (Please Type or Print Clearly)

Company Name NATIONALGRID

Address 201 Rivermoor Street
West Roxbury, MA 02132

Phone Number 617-894-3896 Fax Number _____

Contact Person Mary Mulroney Title Permit Representative

Mary Mulroney August 18, 2021

Signature _____ Date _____
Person filing application

If a telecommunications company, indicate how certified by the Department of Telecommunications and Energy:

II. DESCRIPTION OF PROJECT: to be completed by petitioner

A. Write here or attach a description of the project including, location, proposed time frame for completion, type of materials to be used, benefit provided to the City, project mitigation plan as applicable, street reconstruction plan including timetable for completion.

Install and maintain approximately 260feet of 8-inch Plastic main extending from Bridge Street at Linwood Avenue and extending to #90 Bridge Street.

B. Include or attach a sketch to provide a visual description of the project. If plans are attached, provide:
Title of Plan _____ Date of plan _____

III. PUBLIC WORKS DEPARTMENT REVIEW

Date received by Public Works Department September 10, 2021

Check One:
Minor Project ☑ Major Project ☐ Lateral ☐

(Refer to City Engineer Standard Requirements for Plans for definition of minor and major project)

Plans Submitted:
Certified Plot Plan ☐ Stamped Plans ☑

DATE AND COMMENTS:	RECOMMENDATIONS:
The gas company wishes to install 260 feet of 8" plastic pipe between Linwood Avenue & #90 Bridge Street to provide an intermediate pressure service to #90 Bridge Street. Pedestrian access shall be accommodated around the construction zone this area has a heavy pedestrian traffic. Compaction shall be 95% Proctor Test, the contractor of record shall obtain a Trench, Street Opening & Sidewalk. Bridge St was paved in 2015, it is in good condition, curb to curb paving will be required.	Crossing Permits prior to any construction. Siltation controls shall be in all catch basins w/in the construction zone. A Preconstruction meeting w/DPW & Newton Police & Fire will be required. Upon completion an as built shall be submitted to DPW. Police details will be required. *John Daghlian, Associate City Engineer* *September 15, 2021*

V. RECOMMENDATION TO PUBLIC FACILITIES COMMITTEE:

Shawna Sullivan Digitally signed by Shawna Sullivan Date: 2021.09.22 17:42:39 -04'00'

Commissioner, Public Works

Date

370-21

PETITION OF NATIONAL GRID FOR GAS MAIN LOCATIONS

City of Newton / City Council:

The Nationalgrid hereby respectfully requests your consent to the locations of mains as hereinafter described for the transmission and distribution of gas in and under the following public streets, lanes, highways and places of the **City of Newton** and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and accomplish the objects of said Company; and the digging up and opening the ground to lay or place same:

Install and maintain approximately 260feet of 8-inch Plastic main extending from Bridge Street at Linwood Avenue and extending to #90 Bridge Street.

Date: **August 18, 2021**

By: *Mary Mulroney*
Mary Mulroney
Permit Representative

City of Newton / City Council:

IT IS HEREBY ORDERED that the locations of the mains of the Nationalgrid for the transmission and distribution of gas in and under the public streets, lanes, highways and places of the **City of Newton** substantially as described in the petition date **August 18, 2021** attached hereto and hereby made a part hereof, and of the pipes, valves, governors, manholes and other structures, fixtures and appurtenances designed or intended to protect or operate said mains and/or accomplish the objects of said Company, and the digging up and opening the ground to lay or place same, are hereby consented to and approved.

The said Nationalgrid shall comply with all applicable provisions of law and ordinances of the **City of Newton** applicable to the enjoyment of said locations and rights.

Date this _____ day of _____, 20____.

I hereby certify that the foregoing order was duly adopted by the _____ of the City of _____, MA on the _____ day of _____, 20____.

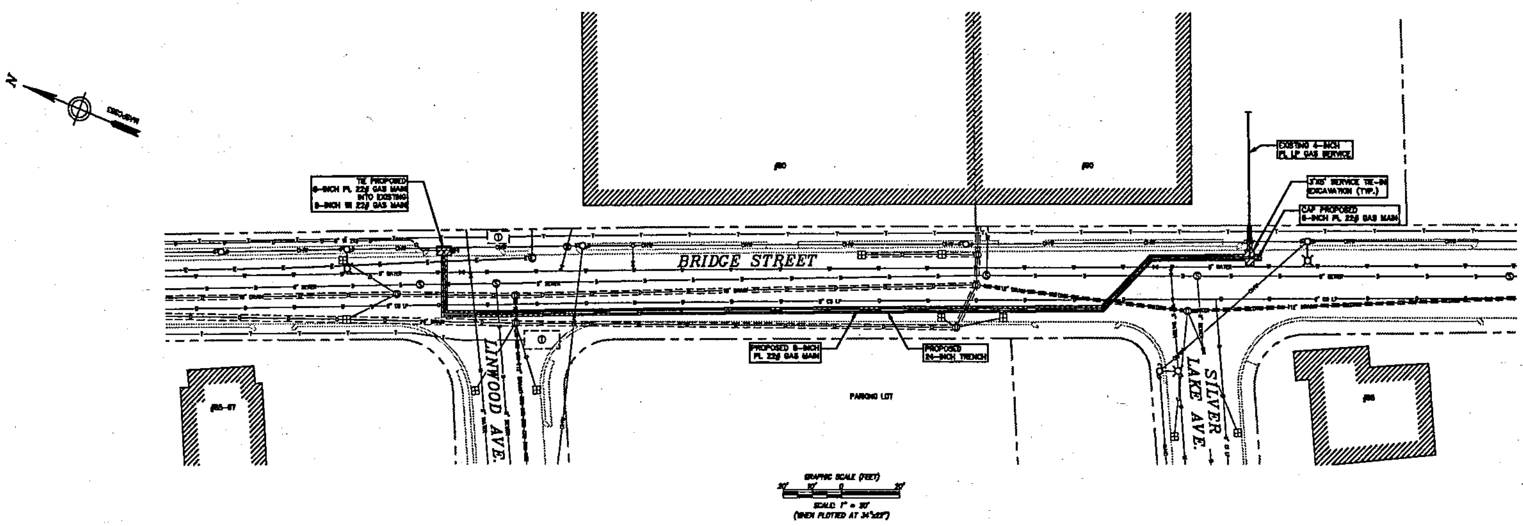
By: _____

_____
Title

WO #1405424

LAST NAME	FIRST NAME	SITUS_LINE1	SITUS_LINE2	SITUS_LINE3	MAIL_LINE1	MAIL_LINE2	MAIL_LINE3	GAS_ACCTS
WANG	XIN H	57 BRIDGE ST	NEWTON MA	02458-1103	57 BRIDGE ST	NEWTON MA	02458-1103	1
GUALDONI	ANNABELLA L	61 BRIDGE ST	NEWTON MA	02458-1103	61 BRIDGE ST	NEWTON MA	02458-1103	2
DONALDS	GARY F	65 BRIDGE ST	NEWTON MA	02458-1103	65 BRIDGE ST	NEWTON MA	02458-1103	1
CHAPELBRIDGE PARK ASSOC		75 BRIDGE ST	NEWTON MA	02458-1128	55 CHAPEL ST	NEWTON MA	02458-1060	
CHAPELBRIDGE PARK ASSOC		85 BRIDGE ST	NEWTON MA	02458-1128	55 CHAPEL ST	NEWTON MA	02458-1060	
CAO	YONGQIANG	95 BRIDGE ST	NEWTON MA	02458-1104	124 BOYD ST	NEWTON MA	02458-1435	2
102 BRIDGE ST LLC		102 BRIDGE ST	NEWTON MA	02458-1129	55 CHAPEL ST	NEWTON MA	02458-1060	
WEBB	ROBERT W	103 BRIDGE ST	NEWTON MA	02458-1104	76 RUSSELL RD	WEST NEWTON MA	02465-1113	1
NGIES	NGIES SOKHA	107 BRIDGE ST	NEWTON MA	02458-1104	109 BRIDGE ST	NEWTON MA	02458-1104	
CHAPELBRIDGE PARK ASSOC		108 BRIDGE ST	NEWTON MA	02458-1129	55 CHAPEL ST	NEWTON MA	02458-1060	

LAST NAME	FIRST NAME	SITUS_LINE1	SITUS_LINE2	SITUS_LINE3	MAIL_LINE1	MAIL_LINE2	MAIL_LINE3	GAS_ACCTS
6-8 SILVER LK AVE LLC		6 SILVER LAKE AVE	NEWTON MA	02458-1109	11 CASTLE PL	NEEDHAM HEIGHTS MA	02494-1304	1
CARLIN LAWRENCE A	LAWRENCE A	14 SILVER LAKE AVE	NEWTON MA	02458-1109	14 SILVER LAKE AVE	NEWTON MA	02458-1109	1



8/11/2021

NOT FOR CONSTRUCTION

LEGEND

- PROPOSED GAS
- EXISTING ELECTRIC
- EXISTING GAS
- EXISTING WATER
- EXISTING STORM DRAIN
- EXISTING SANITARY SEWER
- EXISTING TELEPHONE
- EXISTING CABLE TV LINE
- EXISTING MBTA
- EDGE OF PAVEMENT
- CURB LINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- BUILDING LINE

NOTE:
THE TOPOGRAPHIC AND ELEVATION DATA SHOWN HEREON WAS OBTAINED FROM PUBLIC SOURCES AND WAS NOT CERTIFIED TO BE CORRECT AND/OR ACCURATE BY THIS ENGINEER. USERS RELY ON SAID DATA AT THEIR OWN RISK. UTILITY DATA IS COMPILED FROM RECORD DATA SOURCES AND IS NOT FIELD VERIFIED.

CALL 811 BEFORE YOU DIG

PROJECT SPECIFICS
SIZE: 8"
LENGTH: 280'±
MATERIAL: PLASTIC
PRESSURE: 22ϕ
SCALE 1" = 20'

Drawing Copyright © 2021
CHA

SIGN & DATE

NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
0	ISSUED FOR GRANT OF LOCATION	08/10/2021	M.K	JED	JED

BOSTON GAS COMPANY
d/b/a
nationalgrid
40 SYLVAN ROAD
WALTHAM, MA 02451

ISSUED FOR PERMITTING

PROPOSED GAS MAIN INSTALLATION
PROPOSED OPENING TO INSTALL 8-INCH GAS MAIN
90 BRIDGE STREET
NEWTON, MA

GRANT OF LOCATION PERMIT PLAN

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	M. KITTS	J. O'DONNELL	07/29/2021	DISTRIBUTION	1405424

PAGE 1 OF 1

DRAWING NO.	SHEET NO.
DPL-NEW-068057-1081	C-801

90 Bridge Street, NEWTON 1405424

All Grants of Location for the City of Newton must answer the following in detail:

A. Are there any leaks on this road? If yes, how many?
   a. There are no leaks in this road. -DBrack

B. If not, why is the gas main being extended or replaced?
   a. The gas main is being installed to feed the service for #90 Bridge St, which is being uprated. -DBrack

C. Is it in response to upcoming roadwork or new development?
   a. No. -DBrack

D. Is capacity increasing? If yes, why?
   a. Yes, capacity is increasing due to the new tenant within 90 Bridge St. -DBrack

Requested by the Commissioner: When NationalGrid engineers develop the GOL plans these standard questions be answered in a written format & submitted with the GOL package.

Final Label Report

SBL	Owner	Number	Street	Unit
14002 0019	WANG XIN HAI	57-59	BRIDGE ST	
14002 0018	GUALDONI ANNABELLA L	61	BRIDGE ST	
14002 0017	DONALDS GARY F	65-67	BRIDGE ST	
14009 0004	CHAPELBRIDGE PARK ASSOCIATES	75	BRIDGE ST	
14009 0003	CHAPELBRIDGE PARK ASSOCIATES	85	BRIDGE ST	
14010 0017	CAO YONGQIANG	95	BRIDGE ST	
14001 0013	102 BRIDGE ST LLC	102	BRIDGE ST	
14010 0001	WEBB ROBERT W & PHYLLIS M	103	BRIDGE ST	
14010 0002	NGIES SOKHA	107-109	BRIDGE ST	
14001 0012A	CHAPELBRIDGE PARK ASSOCIATES	108	BRIDGE ST	
14010 0003	CAI WEIHAI & WANG JUFANG	3	CHANDLER ST	
14001 0014	CHAPELBRIDGE PARK ASSOCIATES	49-55	CHAPEL ST	

Ruthanne Fuller
Mayor

City of Newton, Massachusetts
Office of the Mayor

356-21
Telephone
(617) 796-1100
Fax
(617) 796-1113
TDD/TTY
(617) 796-1089
Email
rfuller@newtonma.gov

September 8, 2021

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton, MA 02459

To the Honorable City Councilors:

I am pleased to reappoint Karen Slote of 117 Garland Road, Newton Center as a member of the Sustainable Materials Management Commission. Her term of office shall expire on September 30, 2024 and her appointment is subject to your confirmation.

Thank you for your attention to this matter.

Warmly,

Ruthanne Fuller
Mayor

Newton, MA Boards & Commissions

Submit Date: Sep 07, 2021

Application Form

Profile

Karen
First Name

K
Middle Initial

Slote
Last Name

[redacted]
Email Address

117 Garland Road
Home Address

Suite or Apt

NEWTON CENTER
City

MA
State

02459
Postal Code

What Ward do you live in?

☑ Ward 6

[redacted]
Primary Phone

[redacted]
Alternate Phone

Retired
Employer

NA
Job Title

Which Boards would you like to apply for?

Sustainable Materials Management Commission: Submitted

Interests & Experiences

Please tell us about yourself and why you want to serve.

Why are you interested in serving on a board or commission?

Having served one term on the Commission, I better understand the issues and challenges that face the City and feel like I could add perspective and value in a second term. I have always had an interest in government affairs having received my undergraduate degree in Regional Planning, worked in the Kansas City Budget Office and completed my MBA with a Concentration in Public Management. Although my banking career has been more focused on commercial businesses I have always maintained an interest in the public sector. Also, my undergraduate college was one of the first in the country to have an emphasis on environmental issues. I am a good analyst having worked on a variety of businesses throughout my banking career. I believe I understand the business side as well as the public sector side of many issues. Now that I am retired I would like to be more involved with civic issues. I strongly feel that Newton can be a leader in so many ways given our population and its interests. The SMMC has evolved to a point that now, as a group, I feel we understand the issues around solid waste and can represent the community interests in terms of not only sustainability but also financial concerns. Also, Newton, and I believe the Commission, has the ability to lead in terms of communities that can show how to change for the better. I see the potential for Newton to be a more environmentally aware community and I want to help make that happen.

KAREN K. SLOTE

117 Garland Road • Newton, MA 02459
[redacted]

SUMMARY

Retired commercial banking professional with experience in team building, project management, risk management and business credit analysis. Also have extensive volunteer experience in a variety of areas with a current emphasis on sustainability and climate issues.

SKILLS

- **Leadership.** Roles have included:
  - *Chairperson of the Board of Trustees of the First Unitarian Universalist Society of Newton* during a period of major changes which included searching for a new Minister and reorganizing staff functions.
  - *President of the Mason Rice Afterschool Program* with major accomplishments including the creation of a retirement plan for staff, building a long term budget process and creating and implementing scholarship guidelines.
  - *Officer in Charge of the Credit Control Department* at Fleet Bank, NA/Bank of New England, NA responsible for the implementation of the key portion of the Assistance Agreement, the document which governed the sale of the Bank of New England and the transfer of over $6B of problem loans to the FDIC. This involved coordination of key departments of the Bank as well as with lawyers and regulators.
- **Financial Analysis.** Wrote credit analyses and helped structure loans for companies in a variety of businesses as well as non-profits.
- **Problem Solving.** Played a principal role in the conceptual development and implementation of a highly publicized $1B loan program that helped customers with weak credit while meeting regulatory guidelines.
- **Project Coordination.** Have been in charge of a wide variety of projects including:
  - The building of a new playground at a local elementary school which involved coordination of the playground design process, vendor selection, and volunteer recruitment.
- **Fundraising.** Chairperson of the annual canvas for two years increasing pledges one year by 9% while the First Unitarian Universalist Society of Newton simultaneously ran a capital campaign.

WORK HISTORY

Independent Contractor **2011-2018**
Commercial Credit Analyst

Wainwright Bank & Trust - Vice President **2007-2010**
Commercial Lender and Analyst

Chaston Associates, Inc. - Vice President **2000-2007**
Loan Review Officer

Newbury, Piret & Co., Inc. **1995-2000**
Business Analyst

Fleet Bank of Massachusetts/Bank of New England - Vice President **1982-1994**
Senior Risk Manager
Officer in Charge of the Credit Control Department
Loan Review Officer
Controlled Loan Officer
Commercial Finance Division Account Officer

City of Kansas City, Missouri **1978-1980**
Budget Analyst

VOLUNTEER EXPERIENCE

Newton Sustainable Materials Management Commission **2018-Present**

Mothers Out Front-Newton **2019-Present**

Newton Climate Action Plan Implementation Team **2020-Present**

SOAR55 Non-Profit Management Consultant **2011-2013**

English as a Second Language Tutor **2011-2012**

First Unitarian Society of Newton **1997-2000**
Trustee, 1997-2000 and Chairwoman of the Board, 1999-2000
Chairwoman of the 1995 and 1999 Annual Canvass
Youth Mentor and Religious Education Instructor

Mason Rice Elementary School **1992-1999**
After School Program Board of Director
Chairwoman of the Board, 1994-1999

Chairwoman, Mason Rice Elementary School Playground Project **1996-1997**

VISTA Volunteer - Joplin, Missouri **1976-1978**
Program Planner at a Community Action Agency

EDUCATION

Boston University Graduate School of Management – MBA
University of Wisconsin-Green Bay – Bachelor of Science, Regional Planning

NewCAL

Community Update

September 23, 2021

Monthly Topics

September

Site Plan, Site Features, Building Organization

October

Massing and Exterior Treatment Concepts

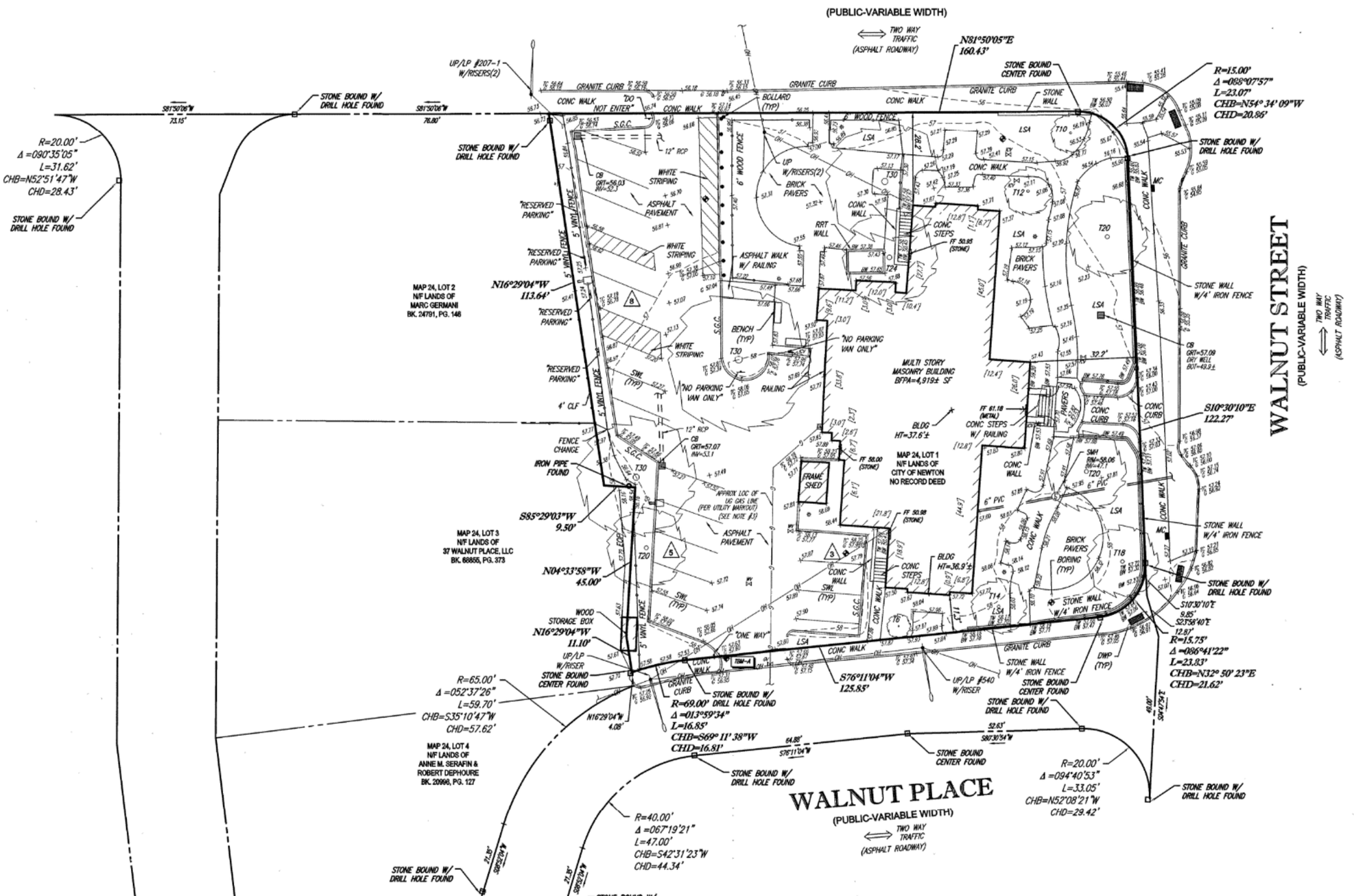
November

Exterior Facades, Materials & Landscape Development

December

Site Plan, Building Plans, Sustainability & Renderings

Civil Survey



NOTES:

1. PROPERTY KNOW OF MASSACHUSE
2. AREA ≈ 26,221 SQ
3. LOCATION OF UNI MARK-OUTS, ABO AS LISTED IN THE UTILITY MARKOUT BEFORE ANY EXC LOCATION, SIZE A NOT GUARANTEE ABANDONED.
4. THIS PLAN IS BAS ASSOCIATES, INC
5. THIS SURVEY WA RESTRICTIONS, C
6. BY GRAPHIC PLOT DETERMINED TO
7. ELEVATIONS REFE OBSERVATIONS U SURVEY.

   TEMPORARY BEN TBM-A: MAG

   TBM-B: MAG

   PRIOR TO CONSTI ILLUSTRATED ON ANY CONFLICTS
8. THE OFFSETS SH PERMANENT ADD
9. THE EXISTENCE C SURVEY.

REFERENCES:

1. THE TAX ASSESS
2. MAP ENTITLED "N COUNTY, MASSAC EFFECTIVE DATE:
3. MAP ENTITLED "L N. EAGER, DATED BOOK 30, PLAN 31
4. MAP ENTITLED "PI SMILIE, DATED OC BOOK 4577, END.
5. MAP ENTITLED "CI SHOWING LAYOU RECORDED WITH

New Streetscape & potential drop-off location

Existing Condition at front of 345 Walnut Street

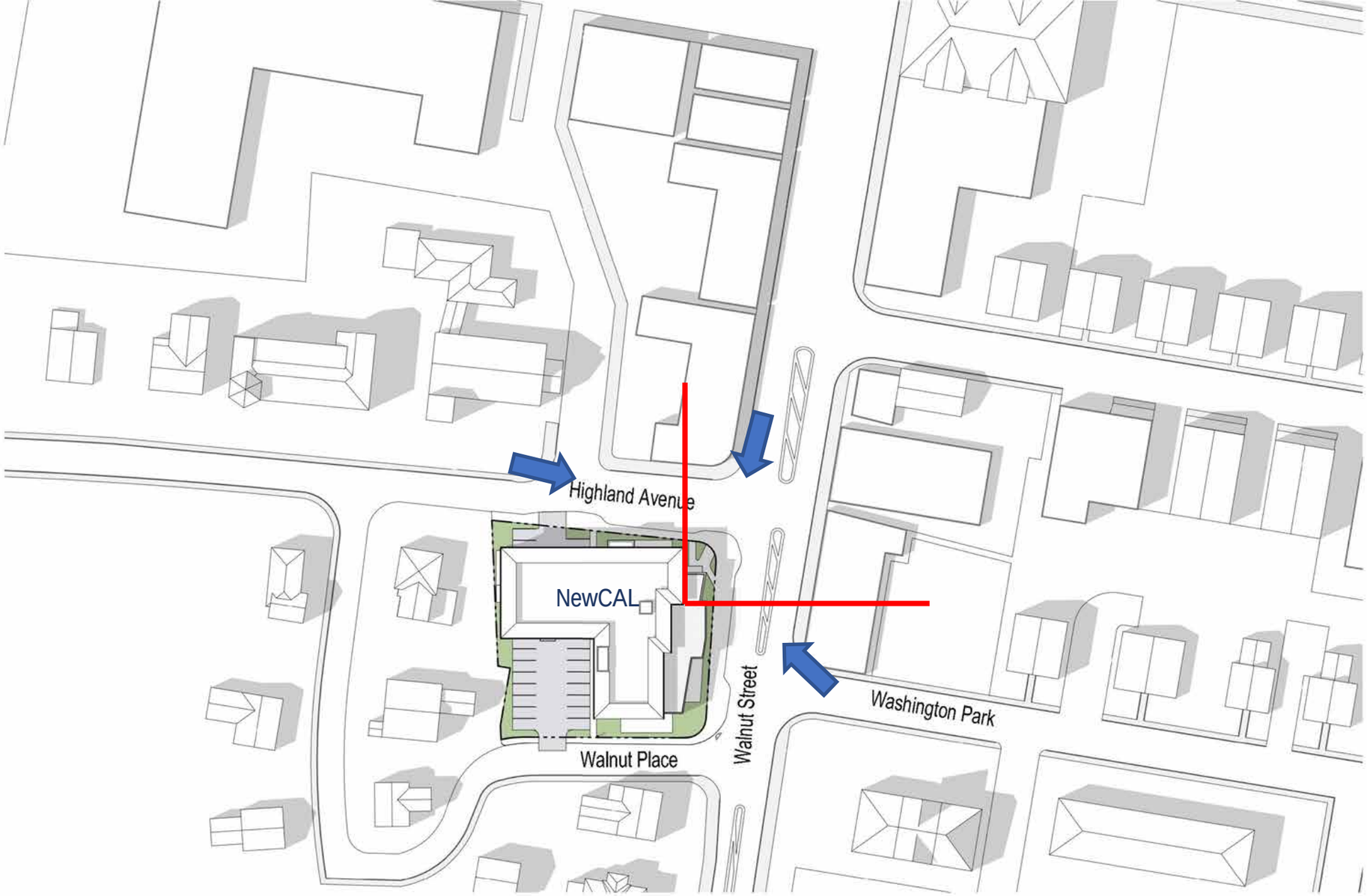
Streetscape & potential drop-off at Highland Avenue

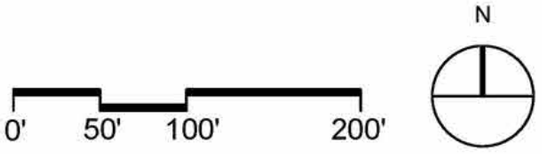
Looking down Walnut Street Sidewalk Towards Senior Center

New Streetscape with view to new building entry

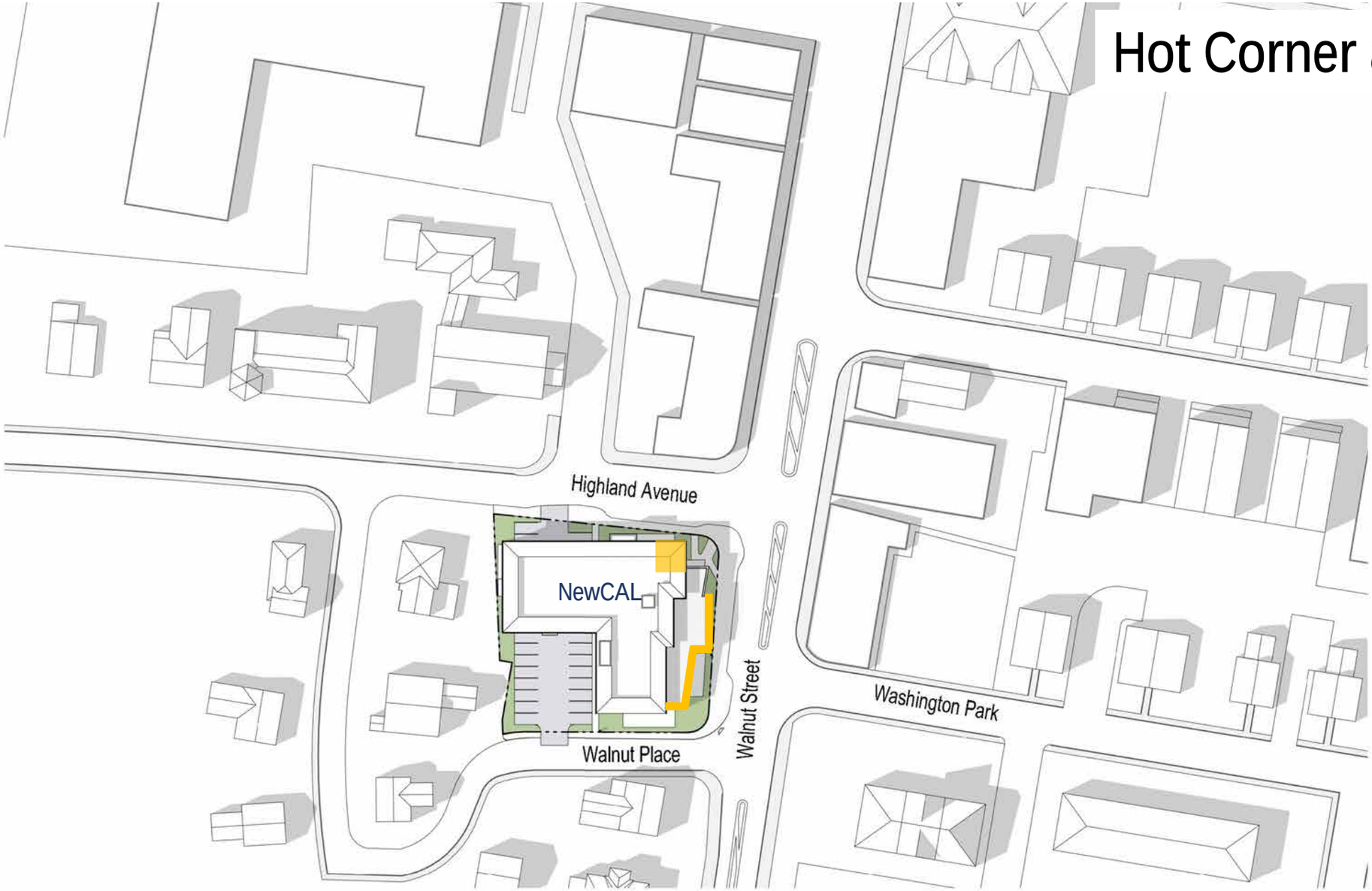
Site Plan


HIGHLAND AVENUE
WALNUT STREET
WASHINGTON PARK
WALNUT PLACE


Highland Avenue
NewCAL
Walnut Place
Walnut Street
Washington Park


N
0'
50'
100'
200'

Hot Corner and Edges



Building is Setback along Walnut Place to reduce canyon effect

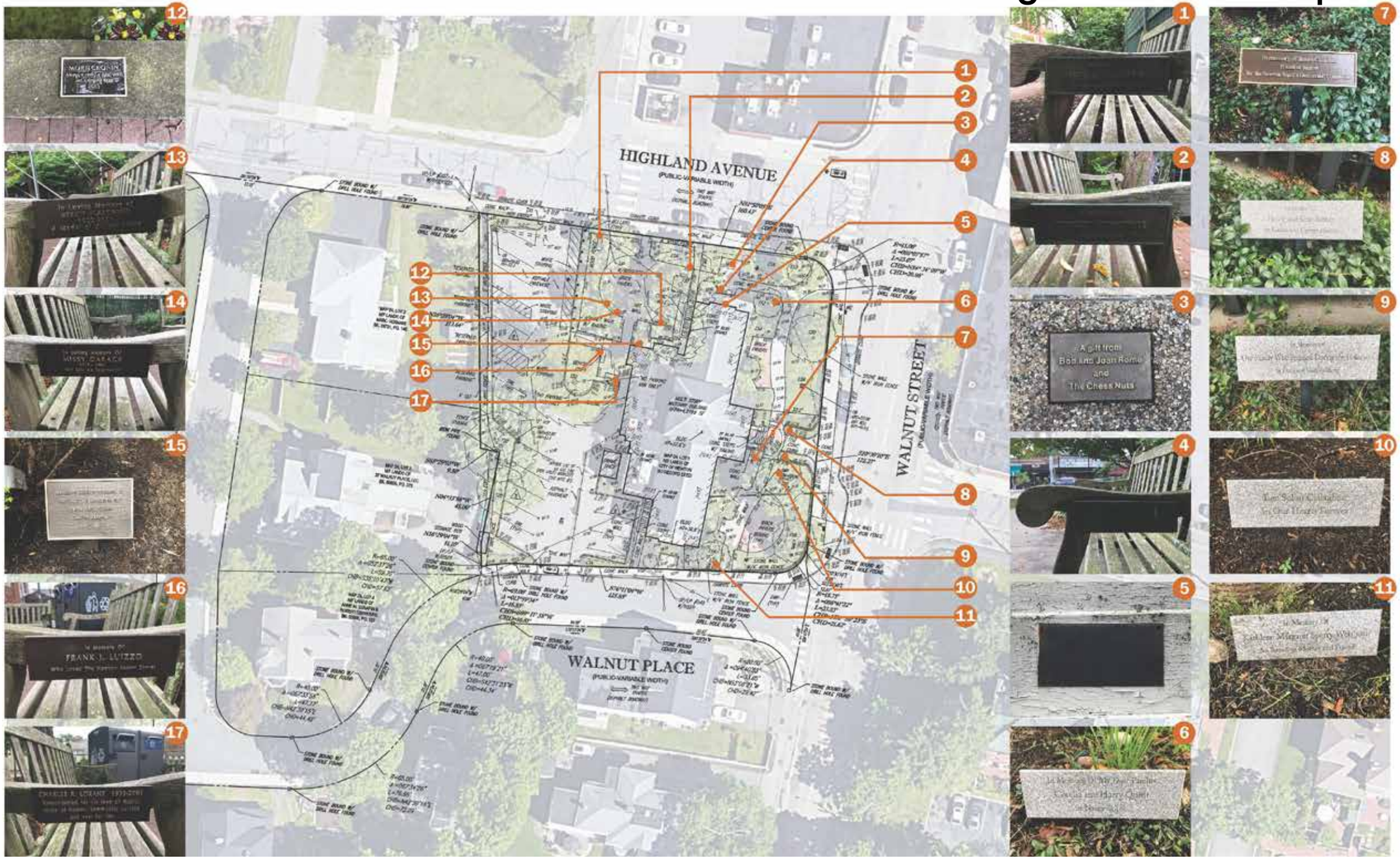
Parking Options

Site Plan

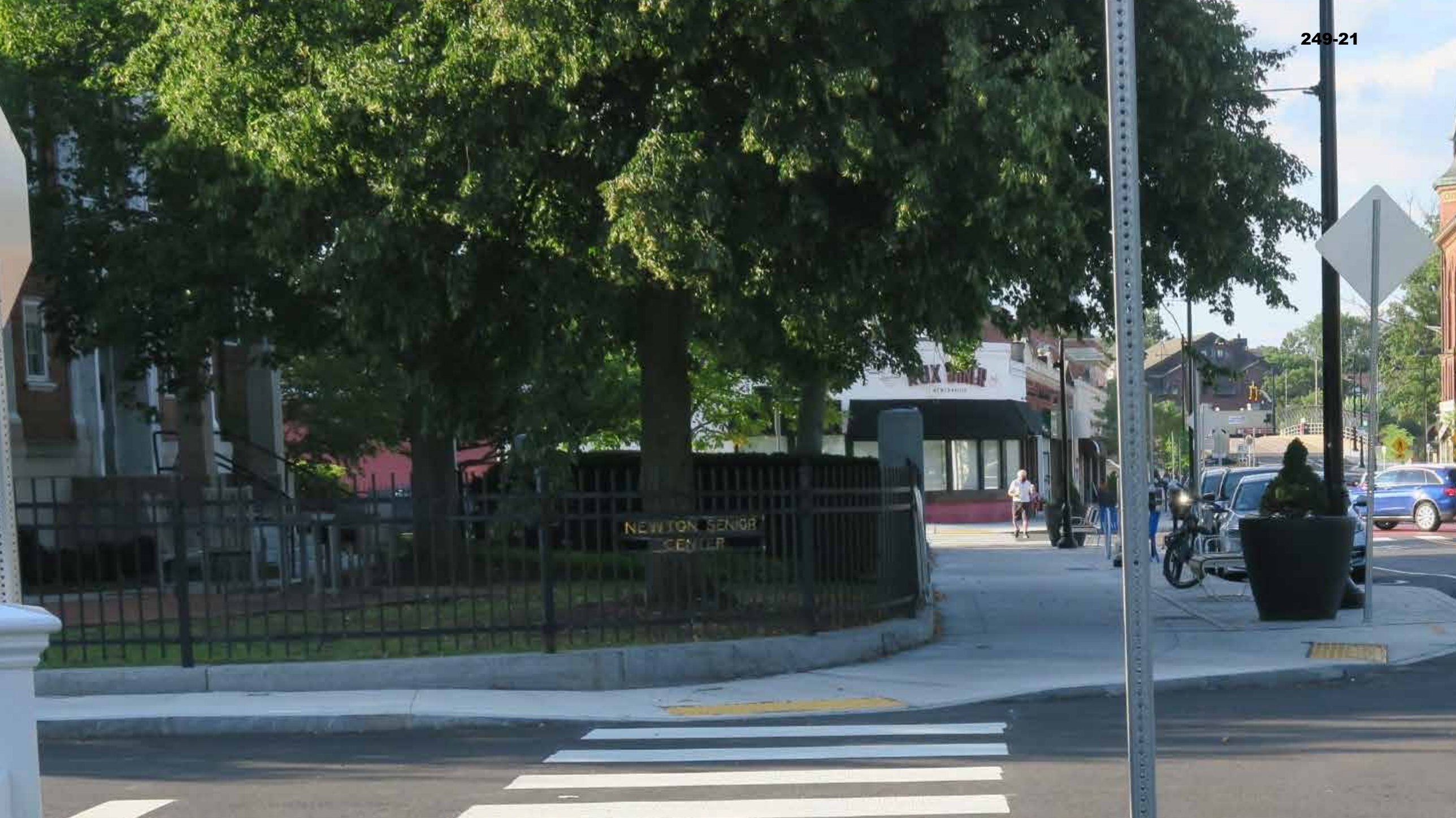

HIGHLAND AVENUE
WALNUT STREET
WASHINGTON PARK
WALNUT PLACE


WALNUT STREET
(PUBLIC-VARIABLE WIDTH)
TWO WAY TRAFFIC (ASPHALT ROADWAY)
MAP 24, LOT 2
N/F LANDS OF
MARC GERMANI
BK. 24791, PG. 146
MAP 24, LOT 3
N/F LANDS OF
37 WALNUT PLACE, LLC
BK. 66855, PG. 373
MAP 24, LOT 1
N/F LANDS OF
CITY OF NEWTON
NO RECORD DEED
MULTI STORY
MASONRY BUILDING
BFPA=4,919± SF
BLDG
HT=37.6'±
N16°29'04"W
113.64'
S85°29'03"W
9.50'
N04°33'58"W
45.00'
N16°29'04"W
11.10'
R=65.00'
Δ=052°37'26"
L=59.70'
S10°30'10"E
122.27'
R=15.00'
CHB=N54° 34' 09"W
CHD=20.86'
STONE BOUND W/
DRILL HOLE FOUND
STONE WALL
W/4' IRON FENCE
"RESERVED
PARKING"
ASPHALT
PAVEMENT
BRICK
PAVERS
CONC WALK
WHITE
STRIPING
ASPHALT WALK
W/ RAILING
BENCH
(TYP)
"NO PARKING
VAN ONLY"
FRAME
SHED
CONC STEPS
W/ RAILING
CONC
WALL
FENCE
CHANGE
IRON PIPE
FOUND
WOOD
STORAGE BOX
UP/LP
W/RISER
STONE BOUND
CENTER FOUND
APPROX LOC OF
UG GAS LINE
(PER UTILITY MARKOUT)
(SEE NOTE #3)
GRANITE CURB
CONC CURB
LSA
T10
T12
T20
T30
T18
T6
T14
T24
SMH
6" PVC
BORING
(TYP)

Existing Memorial Plaques



Existing Trees


NEWTON SENIOR
CENTER


584 JC9

Building Organization

Third floor

ACTIVITY SPACES

Fitness, Games & Track

Second floor

PROGRAM ROOMS

Art & Program Rooms
Administration
Gym

First floor

PUBLIC SPACES

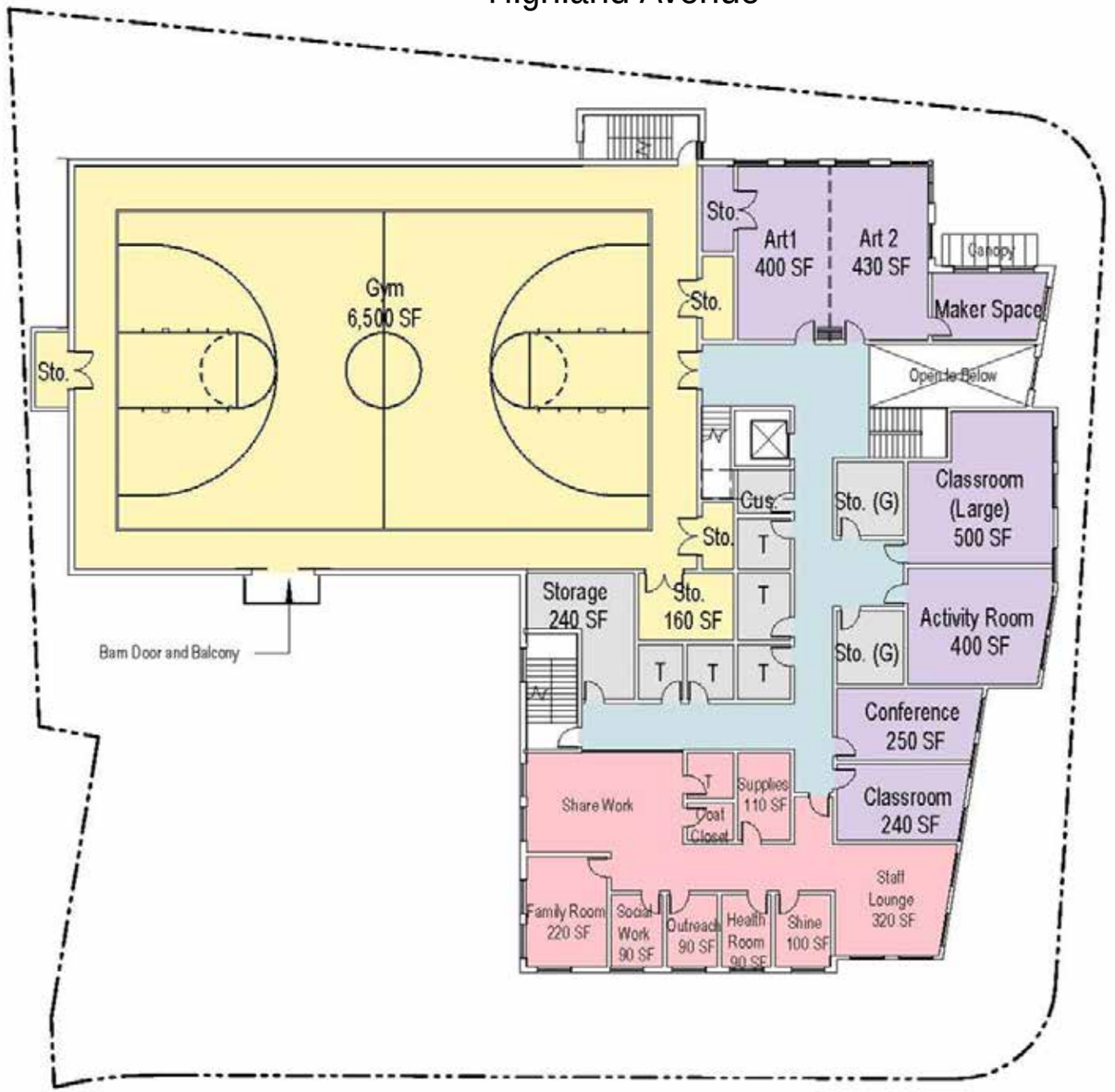
Lobby & Lounge, Admin
Multi-Purpose & Dining
Kitchen, Juice Bar

First Floor


Highland Avenue
Potential Drop-Off Area
Terrace
Senior Service
Sen. Services Assistant
Director's Office
Library 440 SF
Entry
Parks/Rec.
Sto. Copy
Shop 160 SF
Reception 210 SF
Vest.
Durable Med. Equip. 130 SF
Trash 60 SF
Potential Drop-Off Area
Parking Entry
Vest.
Lobby
Elec.
Mech.
Juice Bar 130 SF
Kitchen 700 SF
Lounge 690 SF
Sto. 120 SF
31 Parking Spaces
Stage
Dining 1,600 SF
Activity Room 1,560 SF
Terrace
Existing Fence and Post
Terrace
Walnut Street
Potential Drop-Off Area
Walnut Place
GROSS AREA - 10,140 SQ FT
0'
16'
32'
64'
N

Second Floor

Highland Avenue



Walnut Street

Walnut Place

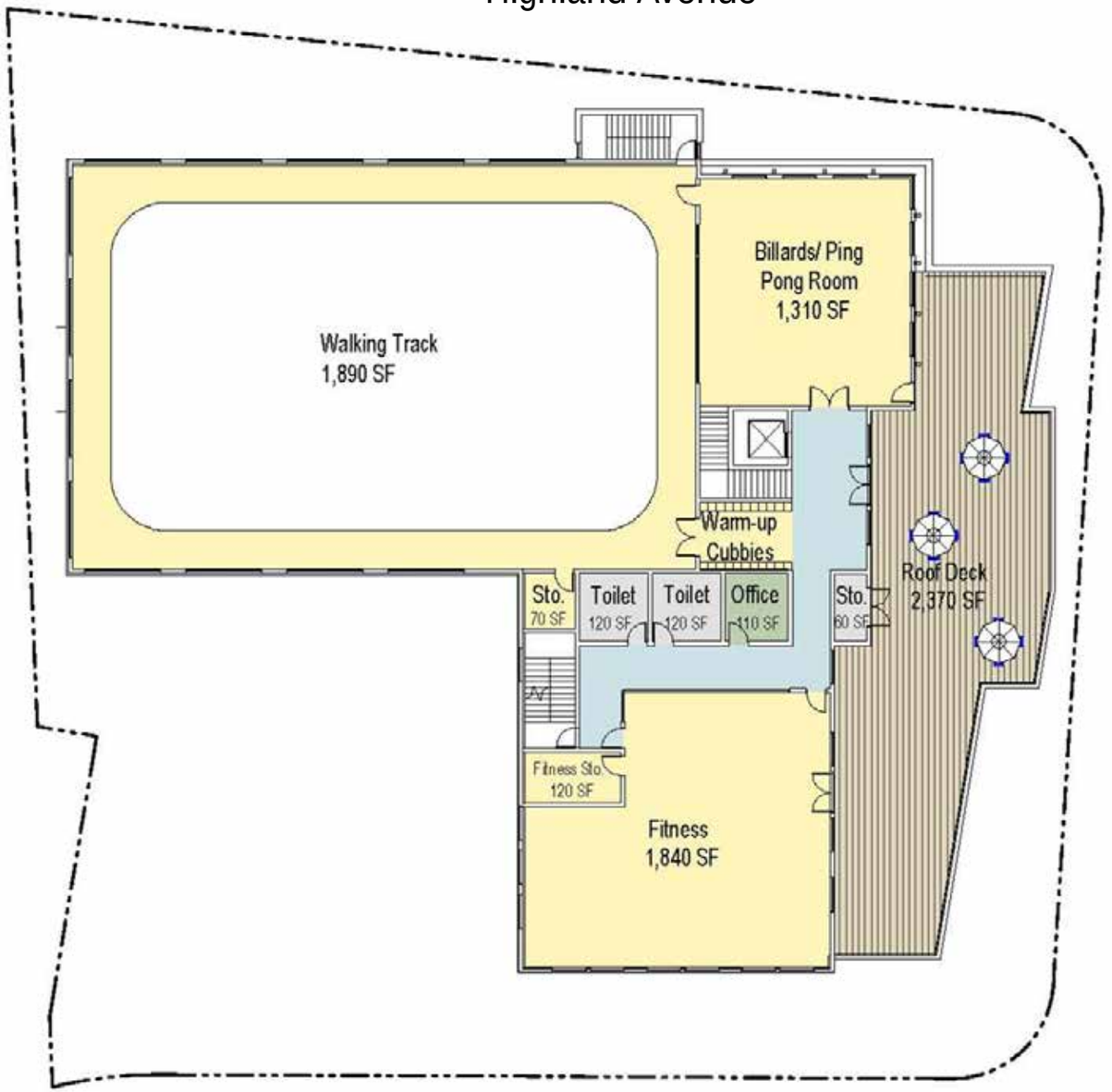
GROSS AREA - 13,960 SQ FT

0' 16' 32' 64'

N

Third Floor

Highland Avenue



Walnut Street

Walnut Place

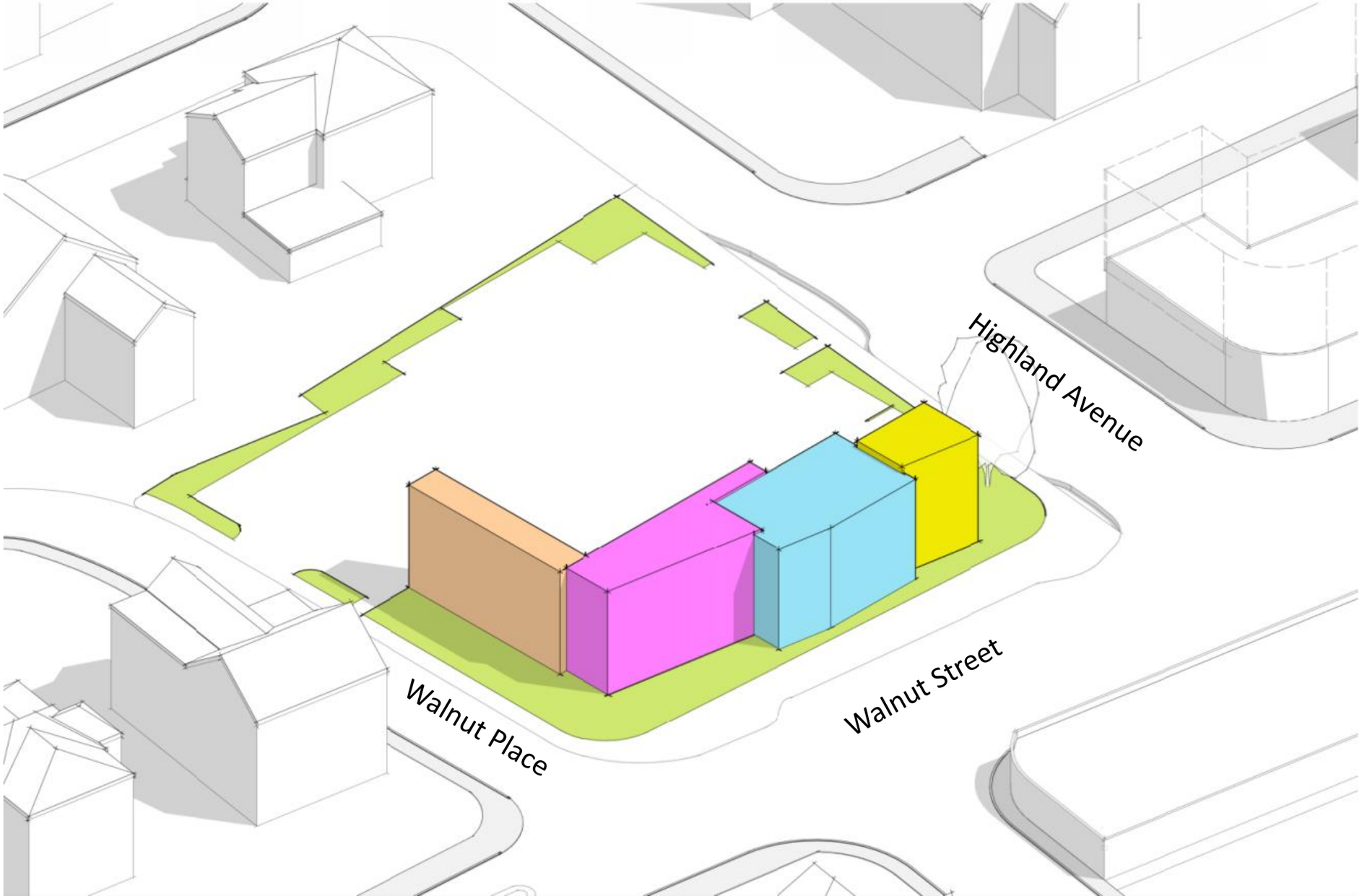
GROSS AREA - 6,890 SQ FT

N

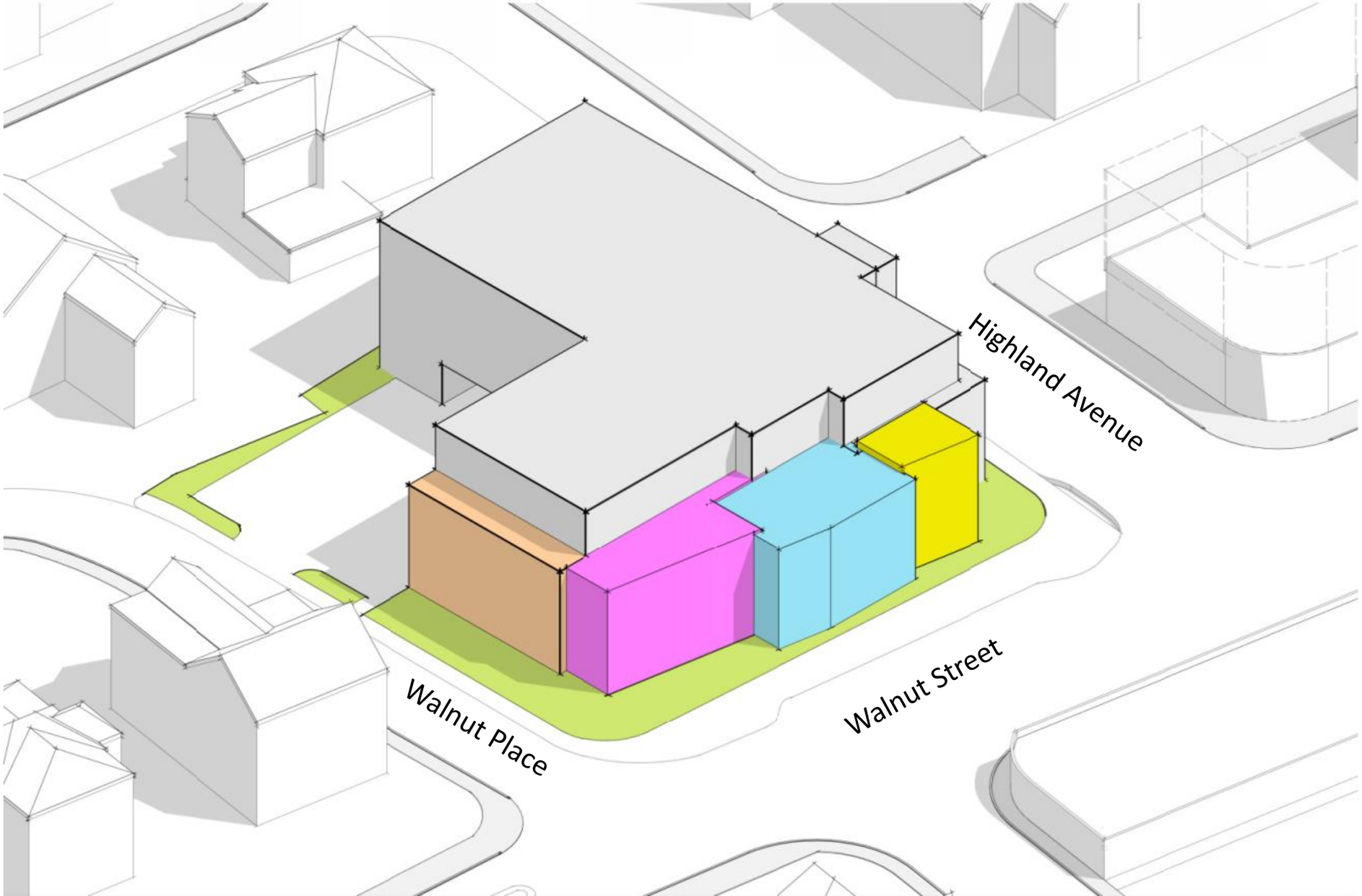
0' 16' 32' 64'


Walnut Pl
Washington Pl
PATIO
NOW OPEN FOR
LUNCH · DINNER

Massing



Massing



NOTES:

1. PROPERTY KNOWN AS LOT 1 AS SHOWN ON THE OF MASSACHUSETTS, MAP NO. 24.
2. AREA = 28,221 SQUARE FEET OR 0.802 ACRES
3. LOCATION OF UNDERGROUND UTILITIES ARE APPR MARK-OUTS, ABOVE GROUND STRUCTURES THAT V AS LISTED IN THE REFERENCES AVAILABLE AT THE UTILITY MARKOUT DOES NOT ENSURE MAPPING OF BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERG LOCATION, SIZE AND TYPE BY THE PROPER UTILITY C NOT GUARANTEE THE UTILITIES SHOWN COMPRISE A ABANDONED.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT O RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT
6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE
7. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK SURVEY.

TEMPORARY BENCH MARKS SET:
TBM-A: MAG NAIL SET IN CONCRETE APRON ON NOR ELEVATION = 54.54'
TBM-B: MAG NAIL SET IN CONCRETE SIDEWALK ON NO ELEVATION = 55.99'

PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPON ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTI

8. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTR PERMANENT ADDITION, ETC.
9. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, SURVEY.

REFERENCES

1. THE TAX ASSESSOR'S MAP OF NEWTON
2. MAP

QUESTIONS & COMMENTS

Ruthanne Fuller
Mayor

City of Newton, Massachusetts

Office of the Mayor

371-21

Telephone
(617) 796-1100
Fax
(617) 796-1113
TDD/TTY
(617) 796-1089
Email
rfuller@newtonma.gov

September 28, 2021

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton, MA 02459

Honorable City Councilors:

I respectfully submit this docket item to this Honorable Council to provide a project update regarding the Lincoln-Eliot Elementary School Project with a joint meeting of the Public Facilities and Programs & Services Committees.

Please see the attached letter from Public Buildings Commissioner Josh Morse.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller

Mayor Ruthanne Fuller

CITY OF NEWTON, MASSACHUSETTS

PUBLIC BUILDINGS DEPARTMENT

52 ELLIOT STREET, NEWTON HIGHLANDS, MA 02461

Ruthanne Fuller, Mayor
Josh Morse
Building Commissioner

Telephone (617) 796-1600
Facsimile (617) 796-1601
TDD/tty # (617) 796-1608

September 27, 2021

Ruthanne Fuller, Mayor
Newton City Hall
1000 commonwealth Avenue
Newton Centre, MA 02459

Re: Lincoln-Eliot School Pre-Feasibility Phase – Project Update

Dear Mayor Fuller:

The Public Buildings Department is pleased to advise that the Lincoln-Eliot Project team has been working on Pre-feasibility phase. At this time, we request that a Project Update be docketed for a joint meeting with Public Facilities and Programs & Services Committees on October 6, 2021. We have been advised that the Committees are available for an update at that meeting.

Sincerely,

Josh Morse
Public Buildings Commissioner

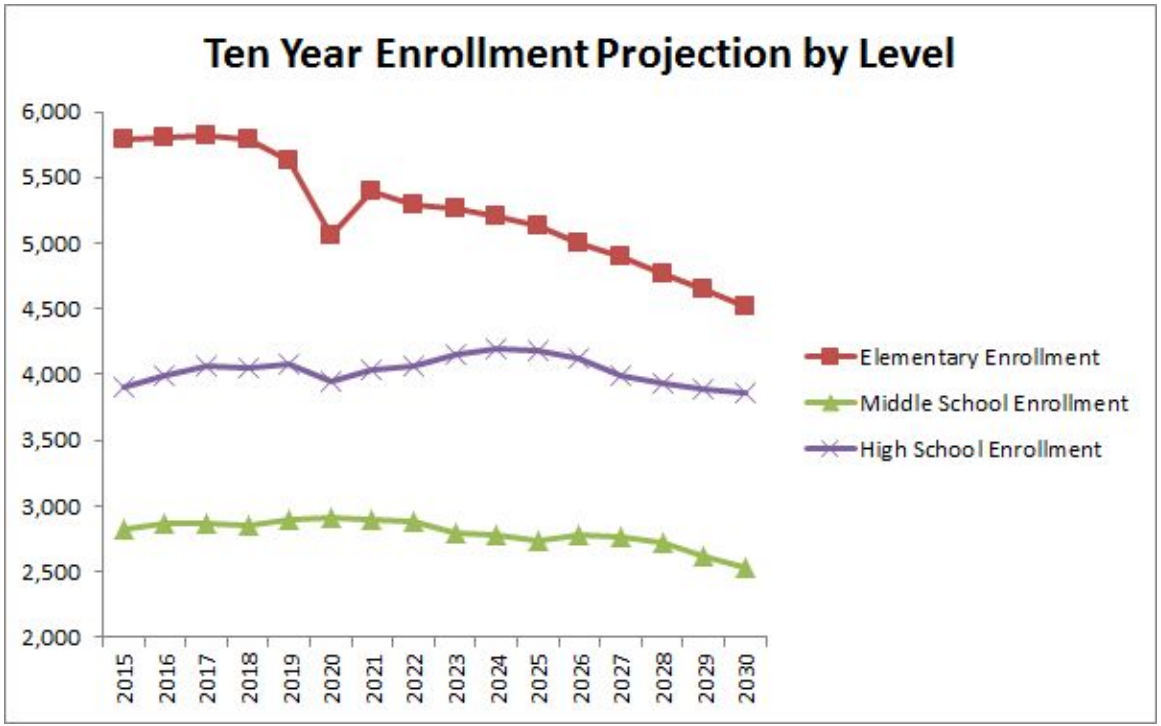
Lincoln-Eliot School Enrollment & Space Program Update

August 16 , 2021

NEWTON PUBLIC SCHOOLS
Equity & Excellence

Districtwide Enrollment Projections

- Projected district enrollment decline over the next 10 years



Recommendation for Lincoln-Eliot Project Revised Design Enrollment

- Revised Design Enrollment of 396-414 Students*
  - Fall 2020 enrollment = 353
  - Projected Fall 2025 enrollment = 334 (includes new permitted residential development)
- This is 21 students less than historic high of 435 in 1970
- Average enrollment over last ten years has been 345 students and 301 students since 1975

*Based on NPS procedures for class size

Recommendation for Lincoln-Eliot Project Revised Space Program

- 20 Classrooms (18 General Classrooms + 2 Special Education)
- Gym, cafeteria, art and music, and library will be comparable to Angier, Zervas, and Cabot in square footage and design to accommodate 465 if needed.
- Comparable to Angier, Zervas, and Cabot in total square footage.
- Includes additional Special Education and Support Spaces specific to the needs of the Lincoln-Eliot educational program.

Recommendation for Lincoln-Eliot Project

- Project designed and sited to add additional 4 classrooms if needed in the future; core spaces will be sized to accommodate this potential expansion.
- The playgrounds, fields, and grounds will be comparable to Angier, Zervas, and Cabot, but on a larger site.
- Aligns classroom count with current and projected enrollment to optimize asset allocation, reduce embodied and operating carbon footprint, and drive the project towards net zero.

Recommendation for Lincoln-Eliot

371-21

Proposed Space Program compared to Angier, Cabot & Zervas

Space Program Element	Lincoln-Eliot	Angier	Zervas	Cabot
Design Enrollment	396-414	465	490	480
Number of General CRs + Special Ed CRs	18 + 2 = 20	22 + 2 = 24	24 + 2 = 26	24 + 2 = 26
Classroom Size (Grades 1-5)	900 SF	925 SF	925 SF	888 SF
K Classroom Size*	1,200 SF	1,130 SF	1,200 SF	1,170 SF
Total Special Education & Other Resource / Support Spaces	9,275 SF	5,965 SF	5,500 SF	6,900 SF

*Includes 4 classrooms sized for Kindergarten for flexibility

Recommendation for Lincoln-Eliot

371-21

Proposed Space Program compared to Angier, Cabot & Zervas

Space Program Element	Lincoln-Eliot	Angier	Zervas	Cabot
Design Enrollment	396-414	465	480	480
Art & Music Total Square Feet	2,650 SF	2,608 SF	2,725 SF	2,575 SF
Gymnasium Total Square Feet	6,300 SF	6,105 SF	6,300 SF	6,300 SF
Library / Media Center Total SF	2,800 SF	2,770 SF	2,875 SF	2,830 SF
Cafetorium Total SF	6,460 SF	6,321 SF	6,663 SF	6,960 SF
Total Building SF	**75,563 SF**	**74,960 SF**	**78,800 SF**	**80,160 SF**

Previously Approved Lincoln-Eliot Programming and Enrollment

- Design Enrollment of 465 Students / Grades K-5*
- 24 Classrooms (22 General Classrooms + 2 Special Education)*
- Based on the design enrollment and number of classrooms at Angier, Cabot, and Zervas, which were planned during a period of high enrollment growth in the elementaries.

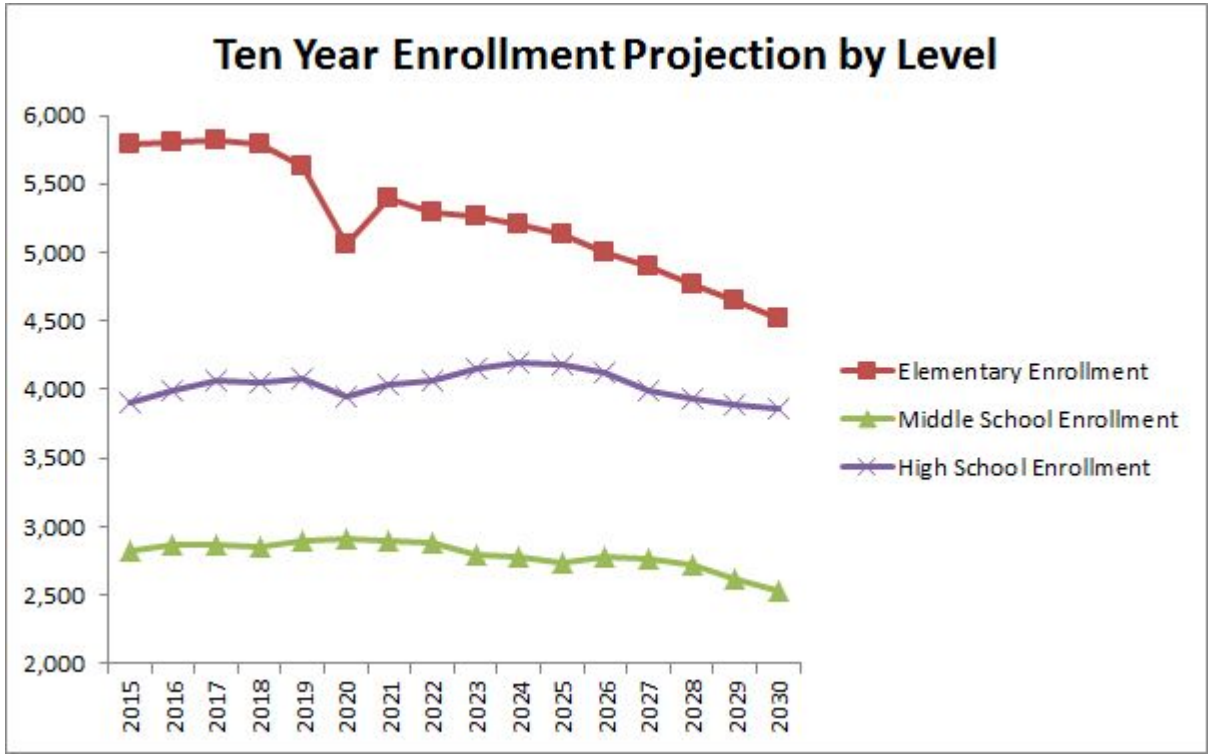
*Approved by the School committee on December 10, 2018

L-E Proposed Space Program - What has changed

Space Program Element	Approved in 2018	Proposed in 2021
Design Enrollment	465	396-414
# of Classrooms / # of Special Education Classrooms	22 + 2= 24	18 + 2 = 20
Classroom Size (1-5 and SPED)	850 SF	900 SF
Reading Program/Literacy Room	3 Rooms at 850 SF	2 Rooms at 375 SF
Literacy Specialist Offices	3 Room at 250 SF	4 Rooms at 200 SF
Literacy Specialist - Shared Teaching Room	none	1 Room at 500 SF
Math Coach	3 Rooms at 250 SF	2 Rooms at 200 SF
Specialist Work Room	1 Room at 400 SF	Removed
Total Building SF	84,225 SF	75,563 SF

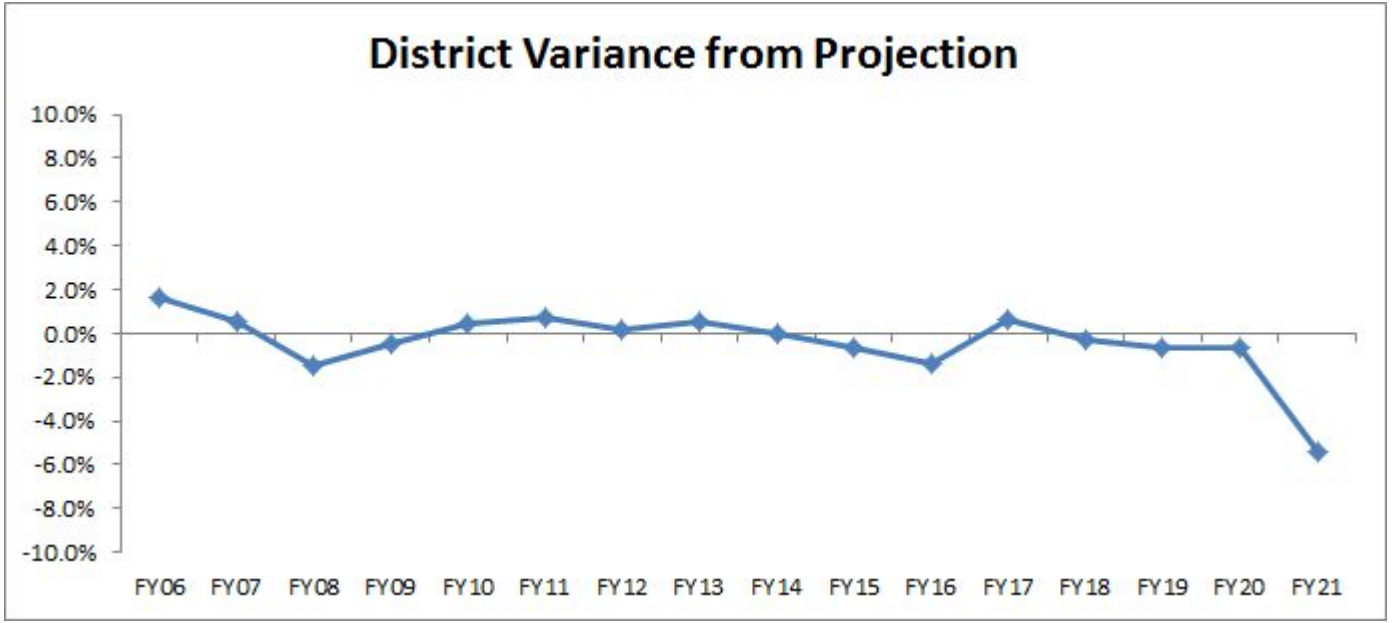
Why recommendation has changed

- Projected district enrollment decline over the next 10 years



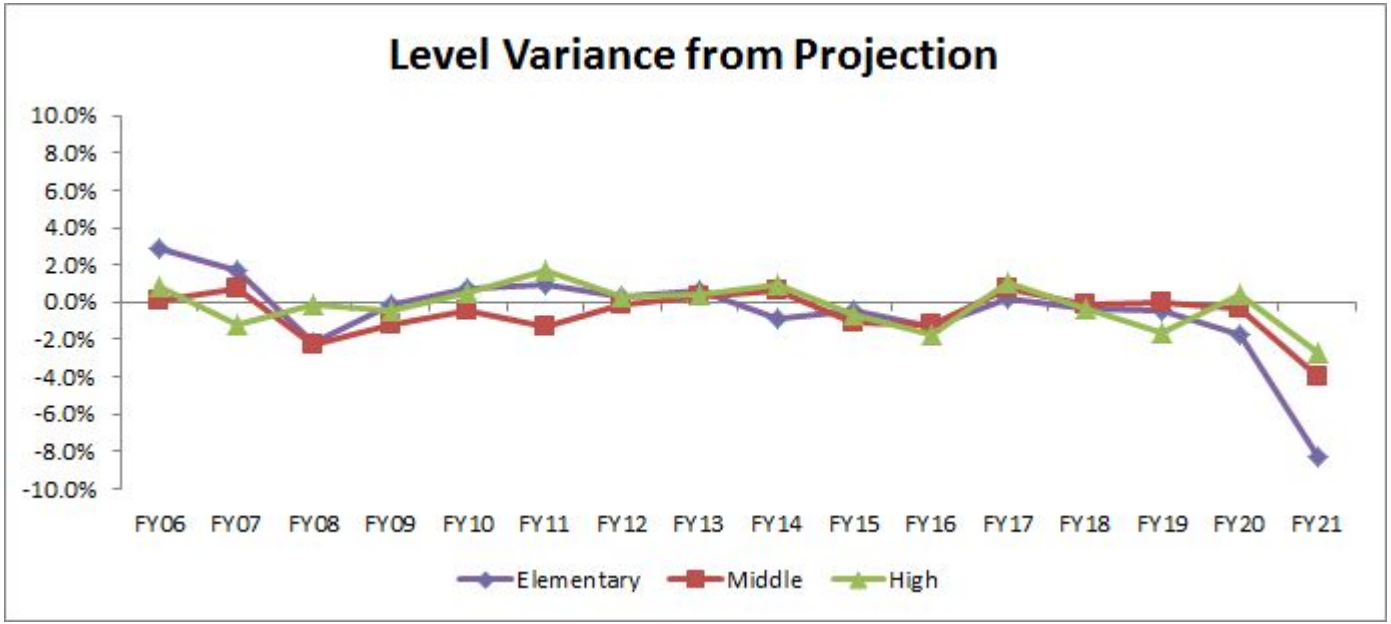
Projection Accuracy: District

- Range of -1.5% to 1.6% since FY06 (exception of FY21)



Projection Accuracy: Level

- Elementary range of -2.1% to 2.9%
- Middle range of -2.2% to 0.8%
- High range of -1.7% to 1.7%



Enrollment Projections: Grades 1-12

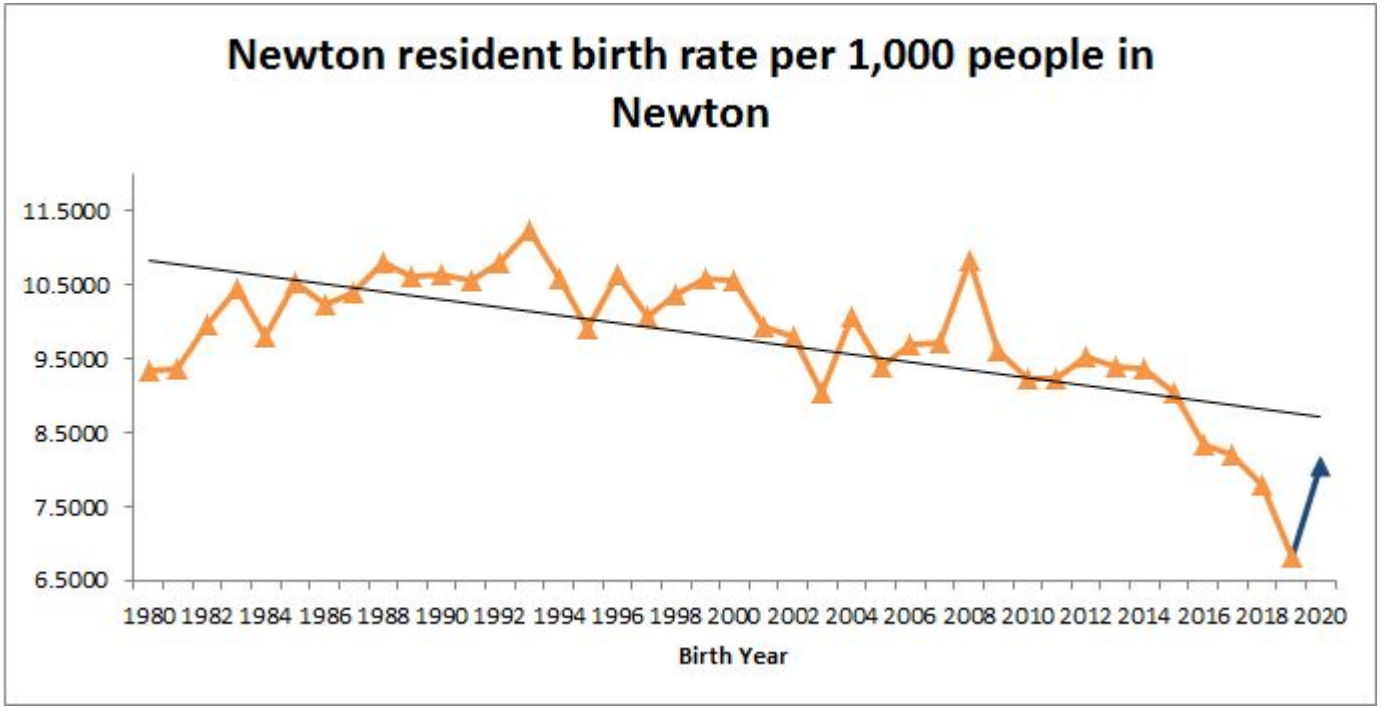
- Utilize five-year average cohort survival ratios (CSRs) by grade and school in grades 1-12 (modified for FY21 projections due to COVID)
  - CSRs look at the number of students in a particular grade/school in previous year compared to the number of students in the next grade at the same school (or feeder school) in the next year
    - CSR > 1 means more new students than the previous year
    - CSR < 1 means fewer students than the previous year
    - CSR = 1 means the same number of students in each year
- CSRs incorporate historical patterns for move-ins and move-outs

Enrollment Projections: Kindergarten

- Utilize historic kindergarten enrollment by school in conjunction with birth rate data for K
- Birth rate data is births to residents of Newton

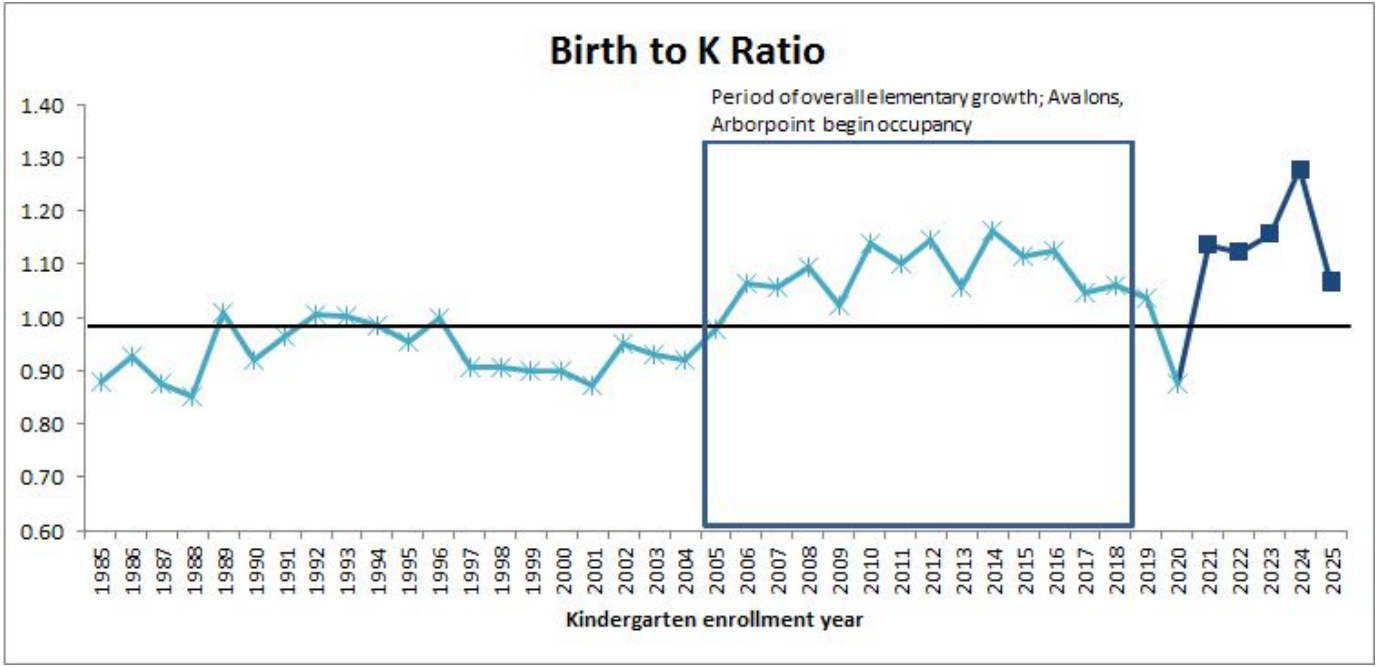
Birth Rates

- Fluctuate over time, but general declining trend in Newton, as well as US



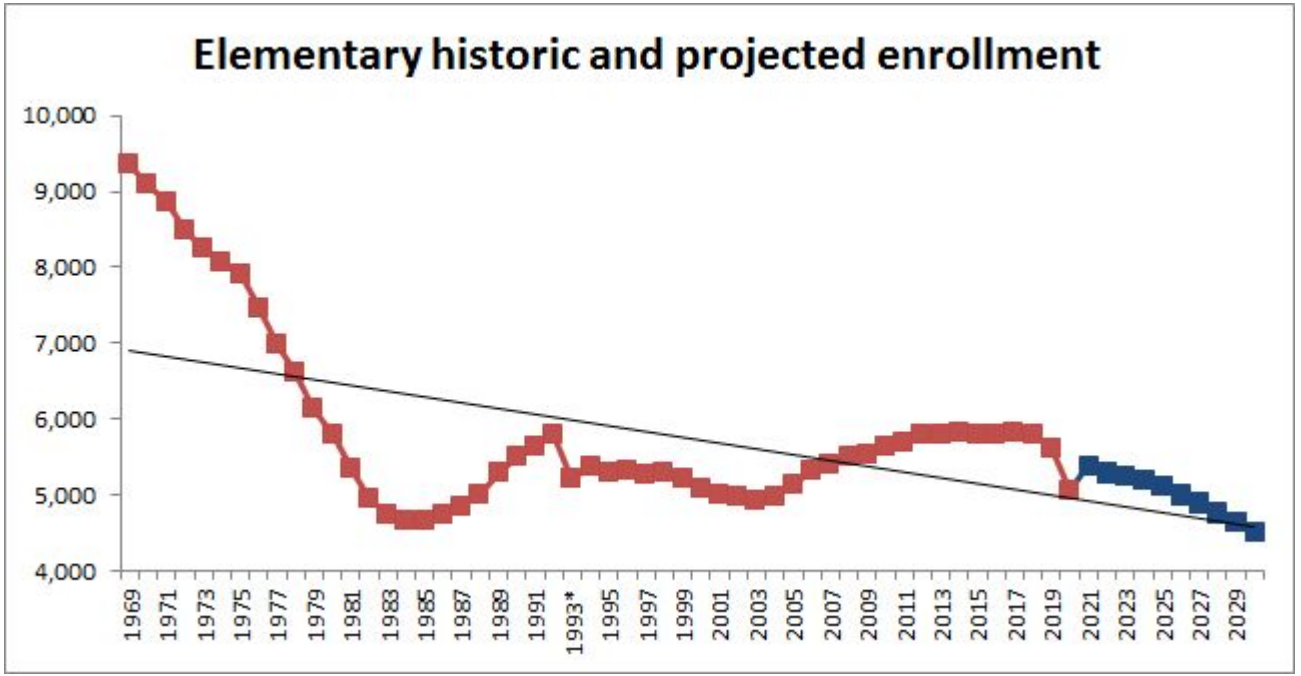
Birth to Kindergarten ratio

- Historically under 1; years over 1 coincide with enrollment growth, generally attributable to increased large residential development
- Current projections include estimated birth to K ratios over 1



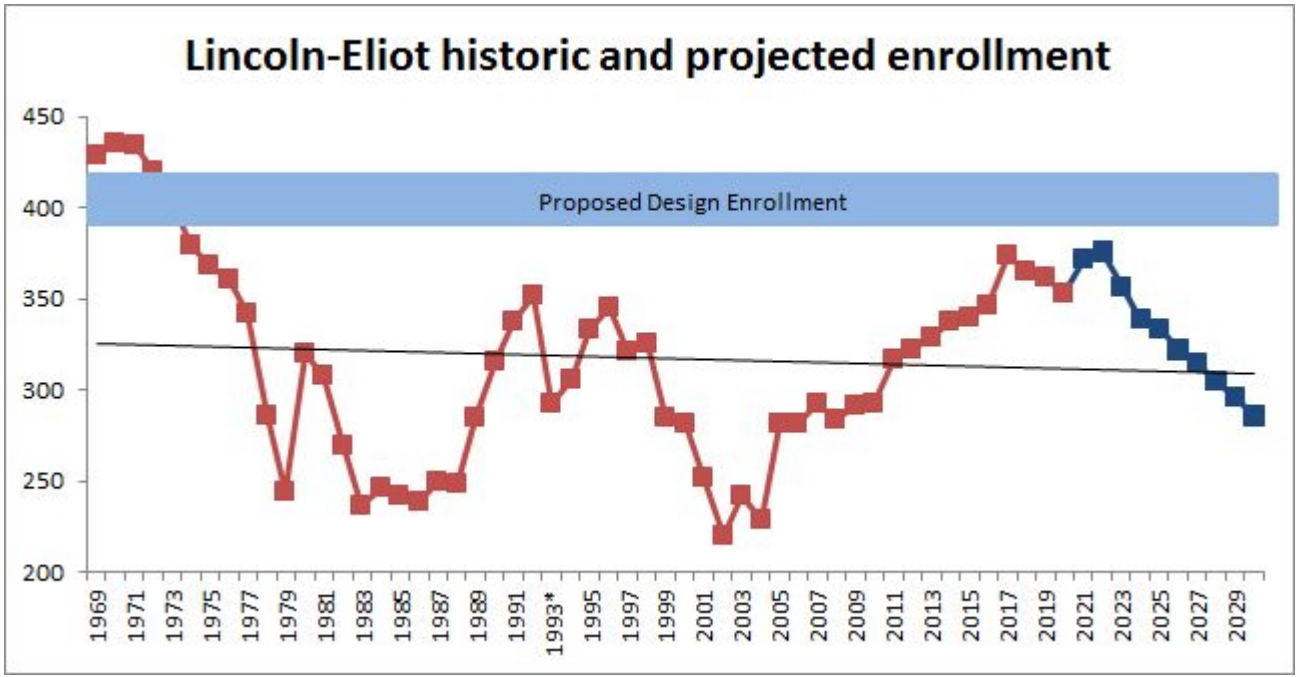
Elementary trends

- Fluctuations in elementary enrollment with a general declining trend



Lincoln-Eliot enrollment

- Historical Lincoln-Eliot enrollment has a general declining trend, with a maximum enrollment of 435 in 1970



Lincoln-Eliot Historic Enrollment By Decade

- Lincoln-Eliot enrollment has not been above 400 students for almost 50 years

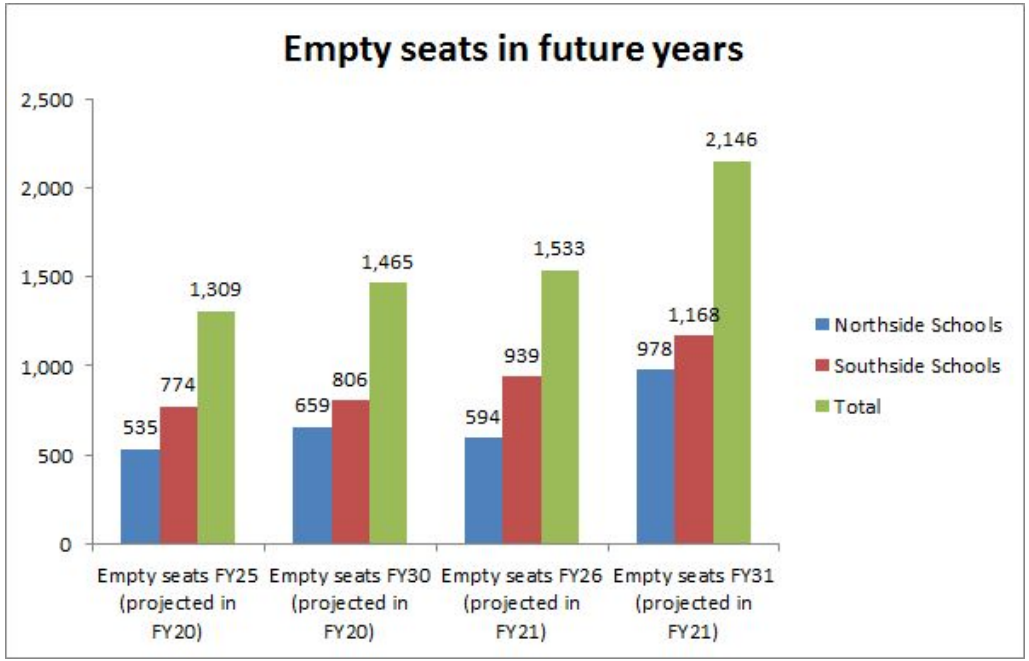
Year(s)	Range of Enrollment	Average Students per Decade
1971-1980	244-434	356
1981-1990	237-316	264
1991-2000	281-352	318
2001-2010	220-293	267
2011-2020	317-374	345

Residential development in Lincoln-Eliot district

- New residential development is incorporated in enrollment projections
- Utilize enrollments in other large residential developments in Newton to project enrollment at a new residential development; these projections are added to the school/grade level projections from our CSR methodology
- Riverdale is included in current L-E projections

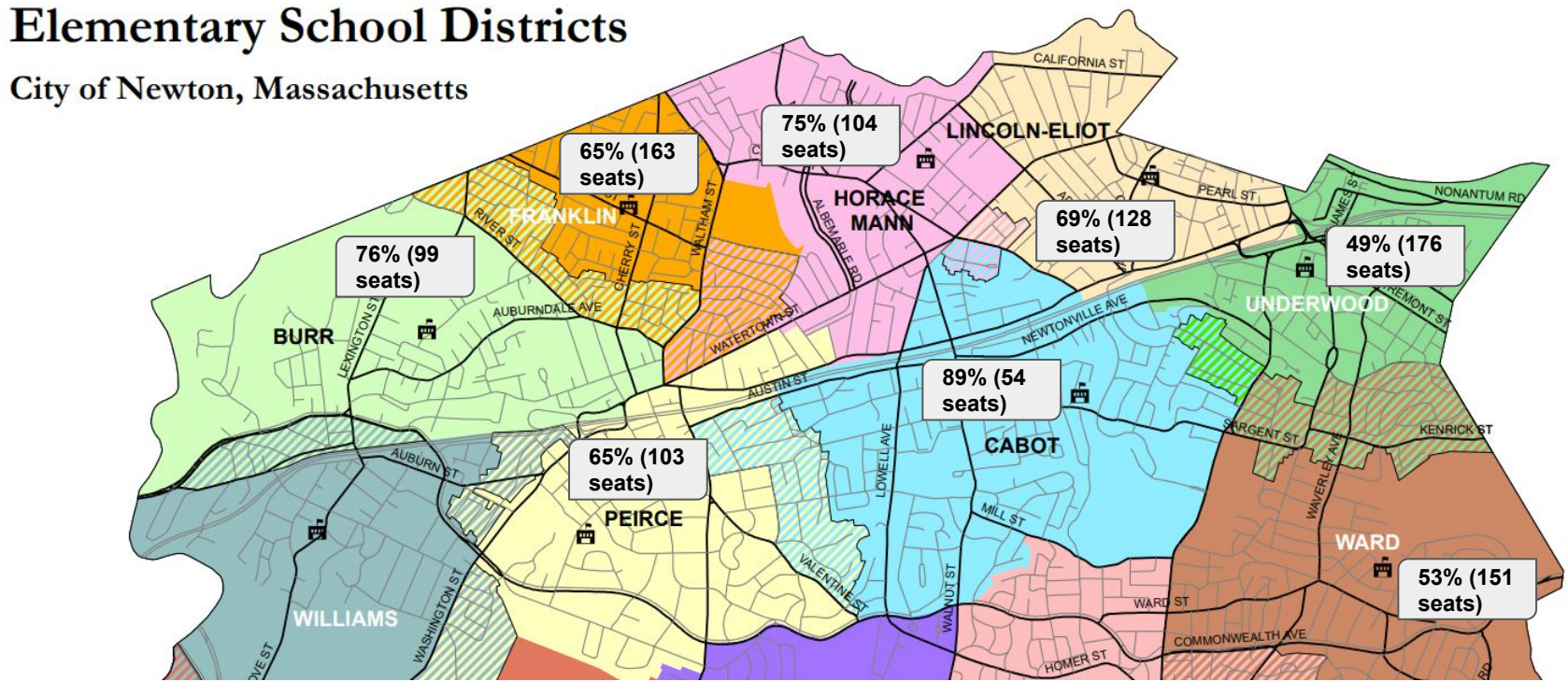
Elementary seat availability

- 5 and 10 year projections indicate many available seats in elementary schools on both the North and South side



*Seat availability calculated using 22 students per classroom in K-2 and 24 students per classroom in 3-5 & FY21 classroom counts

Northside % enrolled and empty seats in 10 years (FY30)



Next Steps…

- School Committee vote on revised design enrollment and space program
- Develop conceptual options based on revised enrollment and updated Space Program
  - Site Analysis and Options
  - Renovation/Addition Options or Replacement

Draft Timeline

6/17/21 - Lincoln-Eliot Community Meeting - Project Update

7/20/21 - School Committee - Presented Revised Enrollment & Space Program

8/3/21 - School Building Committee Meeting - Revised Enrollment and Space Program

8/16/21 - School Committee - Revised Enrollment and Space Program Discussion

9/20/21 - School Committee - Vote on Revised Enrollment and Space Program

Fall 2021 - School Building Committee (SBC) Meetings

- Community Meeting

- Renovation/Replacement Options & Decision Matrix to SBC and School Committee for Discussion and Vote on Preferred Option

- Project Updates to School Committee and City Council

Draft Overall Project Timeline

June 2021 - June 2022

- Feasibility Study to Schematic Design and Site Plan Approval

July 2022 - June 2023

- Design Development and Construction Documents

July 2023 - August 2025

- Bidding and Construction

September 2025

- Occupancy

http://lincolneliot-necp-projects.com/

371-21

ARROWSTREET

LINCOLN-ELIOT ELEMENTARY SCHOOL

SCHOOL BUILDING COMMITTEE MEETING

NEWTON, MA

14 SEPTEMBER 2021

PREPARED FOR

NEWTON PUBLIC SCHOOLS
Equity & Excellence

David Fleishman,
Superintendent

Ruthanne Fuller,
Mayor

AGENDA /

1 DRAFT CRITERIA MATRIX

CRITERIA MATRIX
DRAFT

DRAFT FOR REVIEW

LINCOLN-ELIOT ELEMENTARY SCHOOL - Newton, MA

✓ **Meets Prerequisite** | ● **Favorable** | ⊙ **Neutral** | ○ **Unfavorable** | **Costs: $, $$, $$$, $$$$**

	CRITERIA	1 [insert short description of design scheme]	2 [insert short description of design scheme]	3 [insert short description of design scheme]	4 [insert short description of design scheme]
Building and Site Facts					
1	Student design enrollment				
2	Size of site (acres)				
3	Classroom count				
4	SPED Classroom count				
5	Building Gross Floor Area (SF)				
6	Sitework estimated area of improvements (SF)				
Cost and Schedule					
1	Relative capital cost				
2	Allows students to move into new school by 2025 (Prerequisite)				
3	Maintains standard site plan approval schedule (Prerequisite)				
Educational					
1	Meets educational program for all students (Prerequisite)				
2	Meets space program (Prerequisite)				
3	Provides flexibility for future growth				
4	Provides flexibility for educational innovations				
5	Optimizes configuration and adjacency of teaching spaces				
6	Allows for efficient program design layout				
Community					
1	Provides accessibility and control to community used space				
2	Provides community/district use auditorium				
3	Accommodates extended day program				
4	Enhances community green space and playground				

Building					
1	Meets current building codes (Prerequisite)				
2	Meets MAAB/ADA requirements (Prerequisite)				
3	Meets healthy building environment (Prerequisite)				
4	Meets hazardous material remedial requirements (Prerequisite)				
5	Allows for a contextually sensitive design				
6	Allow for efficient MAAB/ADA requirements				
7	Optimizes use of natural light and daylighting				
8	Optimizes connection of outdoor/indoor space, integration with site				
9	Preserves district central storage facilities and maintenance shop				
10	Allows for efficient MEP building systems design				
11	Allows for efficient building design				
Site					
1	Meets environmental remedial requirements (Prerequisite)				
2	Maximizes efficient utilization of site				
3	Optimizes outdoor program space and green space				
4	Optimizes safety and efficiency of on-site bus and van drop off				
5	Separates safe circulation of bus, vehicle, pedestrian and bike access				
6	Optimizes site for safe pedestiran and bike access				
7	Provides sufficient parking for teachers, staff + visitors				
8	Improves off site traffic impact				
9	Allows for future expansion				
Sustainability					
1	Minimizes embodied carbon footprint with building reuse				
2	Achieves City goal for fossil free building HVAC systems				
3	Optimizes solar opportunities				
4	Allows efficient attainment of Green School/Stretch Code requirements				
5	Optimizes building envelope thermal performance				

CRITERIA MATRIX
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LINCOLN-ELIOT ELEMENTARY SCHOOL - Newton, MA				
✓ Meets Prerequisite	● Favorable	⊙ Neutral	○ Unfavorable	Costs: $, $$, $$$, $$$$

	CRITERIA	1	2	3	4
		[insert short description of design scheme]	[insert short description of design scheme]	[insert short description of design scheme]	[insert short description of design scheme]
Building and Site Facts					
1	Student design enrollment				

CRITERIA MATRIX
DRAFT

7 CRITERIA CATEGORIES

Building and Site Facts

Cost and Schedule

Building

Educational

Site

Community

Sustainability

CRITERIA MATRIX
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Building and Site Facts

1. Student design enrollment
2. Size of site (acres)
3. Classroom count
4. Special Education Classroom count
5. Building Gross Floor Area (SF)
6. Sitework estimated area of improvements (SF)

Cost and Schedule

1. Relative capital cost
2. (Prereq.) Allows students to move into new school by 2025
3. (Prereq.) Maintains standard site plan approval schedule

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Educational

1. (Prereq.) Meets educational program for all students
2. (Prereq.) Meets space program
3. Provides flexibility for future growth
4. Provides flexibility for educational innovations
5. Optimizes configuration and adjacency of teaching spaces
6. Allows for efficient program design layout

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Community

1. Provides accessibility and control to community used space
2. Provides community/district use auditorium
3. Accommodates extended day program
4. Enhances community green space and playground

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Building

1. (Prereq.) Meets current building codes
2. (Prereq.) Meets MAAB/ADA requirements
3. (Prereq.) Meets healthy building environment
4. (Prereq.) Meets hazardous material remedial requirements
5. Allows for contextual sensitive design
6. Allows for efficient MAAB/ADA requirements
7. Optimizes use of natural light and daylighting
8. Optimizes connection of outdoor/indoor space, integration with site
9. Preserves district central storage facilities and maintenance shop
10. Allows for efficient MEP building systems design
11. Allows for efficient building design

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Site

1. (Prereq.) Meets environmental remedial requirements.
2. Maximizes efficient utilization of site
3. Optimizes outdoor program space and green space
4. Optimizes safety and efficiency of on-site bus and van drop off
5. Separates safe circulation of bus, vehicle, pedestrian and bike access
6. Optimizes site for safe pedestrian and bike access
7. Provides sufficient parking for teachers, staff & visitors
8. Improves off site traffic impact
9. Allows for future expansion

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Sustainability

1. Minimizes embodied carbon footprint with building reuse
2. Achieves City goal for fossil free building HVAC systems
3. Optimizes solar opportunities
4. Allows efficient attainment of Green School / Stretch Code requirements
5. Optimizes building envelope thermal performance

Q&A

For Further Information:

- » www.newtonma.gov/gov/building/capital_projects
- » www.lincolneliot-necp-projects.com
- » Alejandro Valcarce, AIA, Deputy Commissioner Newton Public Buildings; avalcarce@newtonma.gov
- » Mary Mahoney, Project Manager, Hill International; marymahoney@hillintll.com

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LINCOLN-ELIOT ELEMENTARY SCHOOL - Newton, MA					
✓ Meets Prerequisite	● Favorable	⊙ Neutral	○ Unfavorable	Costs: $, $$, $$$, $$$$	
		1	2	3	4
	CRITERIA	[insert short description of design scheme]	[insert short description of design scheme]	[insert short description of design scheme]	[insert short description of design scheme]
Building and Site Facts					
1	Student design enrollment				
2	Size of site (acres)				
3	Classroom count				
4	SPED Classroom count				
5	Building Gross Floor Area (SF)				
6	Sitework estimated area of improvements (SF)				
Cost and Schedule					
1	Relative capital cost				
2	Allows students to move into new school by 2025 (Prerequisite)				
3	Maintains standard site plan approval schedule (Prerequisite)				
Educational					
1	Meets educational program for all students (Prerequisite)				
2	Meets space program (Prerequisite)				
3	Provides flexibility for future growth				
4	Provides flexibility for educational innovations				
5	Optimizes configuration and adjacency of teaching spaces				
6	Allows for efficient program design layout				
Community					
1	Provides accessibility and control to community used space				
2	Provides community/district use auditorium				
3	Accommodates extended day program				
4	Enhances community green space and playground				
Building					
1	Meets current building codes (Prerequisite)				
2	Meets MAAB/ADA requirements (Prerequisite)				
3	Meets healthy building environment (Prerequisite)				
4	Meets hazardous material remedial requirements (Prerequisite)				
5	Allows for a contextually sensitive design				
6	Allow for efficient MAAB/ADA requirements				
7	Optimizes use of natural light and daylighting				
8	Optimizes connection of outdoor/indoor space, integration with site				
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