| Project TITLE | Auburn Street Affordable Housing & Historic Preservation |
|-----------------------------|--|
| Submitted att | achments posted as part of this document on the Newton CPC website, www.newtonma.gov/cpa |
| DECLUBED | PHOTOS of existing site or resource conditions (2-3 photos may be enough) |
| REQUIRED. | MAP of site in relation to nearest major roads (omit if project has no site) |
| | PROJECT FINANCES printed and as computer spreadsheets, with both uses & sources of funds |
| | development pro forma/capital budget: include total cost, hard vs. soft costs and |
| | contingencies, and project management time from contractors or staff |
| | operating/maintenance budget, projected separately for each of the next 10 years |
| | – including Price Ctr congregate housing |
| REQUIRED | description of planned ownership structure (condominium) |
| for | rental subsidy, if any: sources, commitment letters or application/decision schedules |
| full proposal. | market analysis: including prevailing/trending rents or prices & target population |
| | affirmative marketing & resident selection plan |
| | non-CPA funding: commitment letters, letters of inquiry to other funders, fundraising |
| | plans, etc., including both cash and est. dollar value of in-kind contributions |
| | purchasing of goods & services: briefly summarize sponsor's understanding of applicable |
| | state statutes and City policies |
| REQUIRED for full proposal. | HISTORIC attachments analyzing historic significance and significant features, and showing how project meets national preservation standards |
| | PROJECT SPONSOR FINANCES & CAPACITY |
| | most recent annual operating budget & audited financial statement |
| | transition plan, mission & current housing portfolio, including how this project fits both |
| | previous similar projects completed, with photographs |
| | fair housing: training completed, past complaints & their resolution |
| | Boards of Directors & project managers/team: list skills, experience, tenure & affiliations |
| | (incl. City boards or commissions) |
| | SITE CONTROL, VALUE & DEED RESTRICTIONS |
| | deed |
| | appraisal by independent, certified real estate appraiser |
| | owner's agreement to permanent deed restriction s for affordability & historic |
| | preservation |
| REQUIRED for | ZONING & PERMITTING ✓ short email confirming review by the Development Review Team (DRT) |
| full proposal. | |
| | brief property history: at least the last 30 years of ownership & use environmental mitigation plans: incl. lead paint, asbestos, underground tanks & results of |
| | phase 1 environmental assessment (summary included – full report posted separately) |
| | zoning relief and nermits required: incl. parking waivers, demolition or building permits |
| | comprehensive permit or special permit |
| | other approvals required: local & state historical commissions, disability & architectural |
| | access boards, etc. |
| | DESIGN, CONSTRUCTION & ACCESSIBILITY |
| | home inspection report by a licensed professional, for rehabilitation (posted separately) |
| | ✓ site plan, floor plans & elevations |
| | architectural access worksheet: highlight accessibility in excess of legal requirements |
| | reasonable accommodation/reasonable modification policy |
| | ✓ scope of construction work: highlight "green" or sustainable features & materials |
| OPTIONAL | LETTERS of SUPPORT from Newton residents, organizations, or businesses |
| | |



Attachment: Analysis of Historical Significance, Description of Historically Significant Features, Summary and Justification of Proposed Treatment, and Confirmation of Historical Significance

236 Auburn Street Newton MA

The Huestis-Hazen House was constructed ca. 1868 as a single family home. Benjamin Huestis is the probable builder. Heustis, born in 1808, moved to the United States, from his native Nova Scotia, in 1845, and, after settling in Brookline MA, moved to 236 Auburn Street ca. 1868. The 1870 census indicates the Heustic family living at 236 Auburn, where Benjamin and his sons practiced carpentry. After his death, the house was foreclosed and sold to Charlotte Hazen, wife of Henry, who established several Congregational churches in eastern New England, and where he acted as editor for the yearbooks of the National Council of Congregational Churches of the United States. Hazen's daughter Charlotte lived at 235 Auburn until 1955; her executer sold the house in 1957 to a third owner, Vandie Porter who owned the property until 1986 (fourth owner undocumented). A fifth owner, Peter Perel owned the property until December of 2016, when the Citizens for Affordable Housing in Newton Development Company (CAN-DO) purchased the property.

The house is located currently in a dense residential setting of single and multi-family dwellings of the late Nineteenth and Twentieth Centuries. The two and one half frame house has a three bay front façade with a low sloped roof at the open entry porch.

The architectural style is an example of Italianate domestic architecture common in Newton's early suburban development. The extended eave and its returns are heavily bracketed with pairs of supports at each corner. The deeply set, front and side windows have high corniced, bracketed heads and scrolled sills. A pair of narrow arched windows are located over the entry between second floor single double hung windows. Wood clapboards, corner/water table/frieze trims are found on the front and side exterior walls.

The existing main house plan is rectangular, measuring approximately twenty-one feet by thirty-seven feet. A small addition, unknown to be one or two stories in height, likely was at the rear of the main house, and might have included a kitchen and/or other service rooms. The current rear additions are not original and do not carry the detail of the main house; roofs intersect awkwardly, and siding courses do not align as well as window and eave trims are minimal. Foundation evidence indicates that the first floor east bay is not original, and its details vary from the character of the original house.

The interior of the house has been significantly altered with no evidence of the original materials, excepting a marble fireplace surround. Original stairways, door, window, trim, flooring and ceilings are missing; original partitioning has been removed, and the rear additions, housing two additional dwelling units are not in character with the original architectural style.

Citizens for Affordable Housing in Newton Development Company proposes to remove the rear additions, restore the exterior of the main house to its original components, renovate the interior for a single family three bedroom home, and add a small one story, addition to the rear, in character with the restored siding and details.

A small two family two story dwelling and a one story congregate house will be added toward the rear of the 18, 700 + square foot lot, behind the main historic home.

The City of Newton Historic Commission recognizes the historical significance of 236 Auburn Street and supports the proposal by CAN-DO for its development of the property.

| National Preservation Standard by Department of Interior Statement: | | | | | | | |
|---|--|--|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| The Secretary of the Interior's standards for rehabilitation have been reviewed and will be met for the exterior of the 1868 House. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

This was confirmed by the project architect Terrence G. Heinlein, AIA

Actions of Mass Historical and Newton Historical



January 23, 2017

The Commonwealth of Massachusetts

William Francis Galvin, Secretary of the Commonwealth

Kacnel Powers

Community Development Programs Manager

City of Newton, Massachusetts

Department of Planning and Development

1000 Commonwealth Avenue

Newton, MA 02459

RE: Can-Do Housing, 236 Auburn Street, Newton, MA; MHC# RC.61470

Dear Mr. Powers:

The Massachusetts Historical Commission (MHC) has reviewed the information you submitted, received December 23, 2016, concerning the proposed project referenced above. The subject property at 236 Auburn Street, historically known as the Benjamin Huestis — Henry Allen Hazen House, is included in MHC's Inventory of Historic and Archaeological Assets of the Commonwealth. After a review of the information submitted, MHC staff have the following comments.

The proposed project including the partial demolition and renovation of a nineteenth century house, and the addition of a two-family modular duplex building and a five-bedroom congregate house on an 18,000-square-foot lot, is described in the Project Notification Form that was submitted to this office, received December 23, 2016. Demolition is proposed for two twentieth-century additions. The building, with the additions removed, will be relocated onto a new poured-in-place concrete foundation.

At this time, the MHC is unable to determine what effect the proposed project will have on the property indicated above. The MHC requests the following information. Please provide current original photographs of the subject property and adjacent properties, keyed to a sketch map. Photographic coverage of the exterior and interior of the subject property must be extensive so the MHC can accurately discern the existing historic integrity of the subject property and its context. Please provide a copy of the project plans, elevations, and proposed perspective views. The MHC looks forward to receiving and reviewing the above requested information.

Please submit a copy of the above requested information and a copy of the information submitted to the MHC thus far, to Nancy Grissom, Chairperson, Newton Historical Commission, 1000 Commonwealth Avenue, Newton, MA 02459. The MHC looks forward to receiving and reviewing the comments of the Newton Historical Commission.

These comments are offered to assist in compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (36 CFR 800), and M.G.L. Chapter 9, sections 26-27C, as amended by Chapter 254 of the Acts of 1988 (950 CMR 71.00). Please do not hesitate to contact me at this office if you have any questions.

Sincerely,

Ryan T. Maciej

Preservation Planner

Massachusetts Historical Commission

XC;

Martha Cullen, HUD

Dan Tobyne, HOME

Newton Historical Commission



Setti D. Warren Mayor

City of Newton, Massachusetts

Department of Planning and Development 1000 Commonwealth Avenue Newton, Massachusetts 02459 Telephone (617) 796-1120 Telefax (617) 796-1142 TDD/TTY (617) 796-1089 www.newtonma.gov

Barney S. Heath Director

| RECORD OF A | CTION: | |
|--|--|---|
| DATE: | April 3, 2017 | |
| SUBJECT: | 236 Auburn Street | |
| At a scheduled 0: | meeting and public hearing on March 2 | 23, 2017, the Newton Historical Commission, by a vote of 4 |
| the proposed s the project. Th | ite plan for three additional detached o | historic house on the lot at 236 Auburn Street as well as ine-story housing units, parking, and landscaping as part of a all architectural detail on the house where possible and |
| Voting in the A Nancy Grissom Mark Armstron Laura Fitzmauri Len Sherman, A | , Member ng, Member ice, Member | legative: Abstained: |
| | | |
| Title Reference | e: Owner of Property: | CAN-DO |
| | Deed recorded at: | Middlesex (South) Registry of Deeds |
| | | Book, Page |
| Katy Hax Holme | es, Staff | Date |



Mayor

City of Newton, Massachusetts

Department of Planning and Development
1000 Commonwealth Avenue Newton, Massachusetts 02459

Telephone (617) 796-1120 Telefax (617) 796-1142 TDD/TTY (617) 796-1089 www.newtonma.gov

Barney S. Heath Director

RECORD OF ACTION:

DATE:

February 28, 2017

SUBJECT:

236 Auburn Street

At a scheduled meeting and public hearing on February 23, 2017, the Newton Historical Commission, by a vote of 4-0:

RESOLVED to find 236 Auburn Street, without its rear additions, preferably preserved for architectural integrity and historic context.

Voting in the Affirmative:

Voting in the Negative:

Abstained:

Mark Armstrong, Member Jean Fulkerson, Member Peter Dimond, Member Laura Fitzmaurice, Member

At a scheduled meeting and public hearing on February 23, 2017, the Newton Historical Commission, by a vote of

RESOLVED to find 236 Auburn Street historically significant for its architectural and historical contributions to the history of Newton.

Voting in the Affirmative:

Voting in the Negative:

Abstained:

Mark Armstrong, Member Jean Fulkerson, Member Peter Dimond, Member Laura Fitzmaurice, Member

At a scheduled meeting and public hearing on February 23, 2017, the Newton Historical Commission, by a vote of 4-0:

RESOLVED to approve moving the structure at 236 Auburn Street, without its rear additions, closer to Auburn Street on the same lot, with the exact location of the relocated house to be determined at a later date.

Voting in the Affirmative:

Voting in the Negative:

Abstained:

Mark Armstrong, Member Jean Fulkerson, Member Peter Dimond, Member Laura Fitzmaurice, Member

Newton Historical Commission 1000 Commonwealth Avenue, Newton, Massachusetts 02459 Email: kholmes@newtonma.gov ww.ci.newton.ma.us

| <u>Title Reference:</u> | Owner of Property: | <u>CAN-DO</u> |
|-------------------------|--------------------|-------------------------------------|
| | Deed recorded at: | Middlesex (South) Registry of Deeds |
| | | Book, Page |
| Katy Hax Holmes Sta | Aleus | Date |

Email Re: DRT review

Linda Moody

From:

Michael Gleba <mgleba@newtonma.gov>

Sent:

Tuesday, April 11, 2017 10:41 AM

To:

Linda Moody

Subject:

236 Auburn St.

Dear Ms. Moody,

This email is to confirm that a Development Review Team meeting took place on February 1, 2017 concerning a project related to a CPA application for 236 Auburn St. submitted by CAN-DO.

Please let me know if you have any questions.

Thanks.

Michael Gleba Senior Planner City of Newton Planning and Development Department 617-796-1123

When responding, please be aware that the Massachusetts Secretary of State has determined that most email is public record and therefore cannot be kept confidential.



REQUESTED COMPEHENSIVE PERMIT RELIEF IN LIEU OF PERMITS REQUIRED UNDER CITY ORDINANCES 236 AUBURN STREET, NEWTON

1. SUMMARY OF RELIEF REQUESTED:

The Applicant requests that the Zoning Board of Appeals grant a comprehensive permit in lieu of the following permits, licenses and approvals in accordance with the provisions of G. L. c. 40B §20 et seq. and under the Newton Revised Ordinances of 2012, of which Chapter 30 is the Zoning Ordinance as most recently amended.

ZONING ORDINANCE

- A. Use: The Applicant seeks a comprehensive permit in lieu of use variances, special permits and approvals to allow the Property to be used for the Project including without limitation:
 - 1. Variance from the provisions of §3.4 Allowed Uses to permit the Property to be used for more than one building on lot, i.e., three buildings consisting of: (a) the original historic single family dwelling; (b) a separate freestanding two-family dwelling; and (c) a congregate living facility containing separate living facilities for 5 residents. The Property is currently zoned *Multi-Residence 1*, which district allows single and two-family dwellings by right and a congregate living facility by special permit. However these uses are not allowed simultaneously in conjunction with one another.
 - 2. Variance to waive the requirements of §5.11 to conform to the provisions for inclusionary zoning to the terms of the application, if and to the extent necessary in accordance with section 5.11.3.
- B. <u>Density and Dimensional Controls</u>: The Applicant seeks a comprehensive permit in lieu of such variances or special permits as may be required from or under §3.2.2 for construction of the Project in the Multi-Residence 1 (MR1) District including without limitation:
 - 1. Variance from the dimensional requirements of §3.2.2 as follows:

Front Yard Setback: Required: 25 ft. Provided: 20+/- ft.

- C. <u>Parking Requirements:</u> The Applicant seeks a comprehensive permit i lieu of a special permit pursuant to §5.1.13 for exceptions to the following requirements:
 - 1. Under §5.1.4.A which requires one parking stall for each adult occupant in a congregate living facility and two stalls for a single or two-family dwelling. The Applicant has proposed ten (10) stalls in total where as many as eleven (11) would be required.

- 2. Under §5.1.8.A to permit parking spaces to be within setback areas from a street and sidelines.
- 3. Under §5.1.8.C to permit the width of the maneuvering aisle to be less than 24 feet.
- 4. Under §5.1.9.A to permit an outdoor parking facility containing more than 5 stalls parking spaces to be located adjacent to an abutting property and the street without the minimum 3-foot landscaped strip.
- 5. Any other relief which may be necessary or appropriate and may be granted by the City Council under §5.1.13 to conform to the waivers sought to the plan submitted.
- D. <u>Site Plan Approval:</u> The Applicant requests a comprehensive permit in lieu of site plan approval required under §7.4 in connection with special permits granted under §7.3.

NON-ZONING ORDINANCE

E. Tree Ordinance - Revised Ordinances §20-31 et seq.

Revised Ordinances §20-31 et seq. require a permit and the payment of fees for removal of trees from the property under certain circumstances. To the extent that any permit or fee payment would otherwise be required under Revised Ordinances §20-31 et seq., the applicant requests a comprehensive permit in lieu of a waiver of such permit and fees.

F. Curb Cut Permit

The applicant requests a comprehensive permit in lieu of any sidewalk crossing permits or consent of the Commissioner of Public Works to the extent necessary to comply with requirements of Revised Ordinances §26-65.

G. <u>Utility Connection Permits</u>

The applicant requests a comprehensive permit in lieu of such local approvals as our required under Revised Ordinances §23, 26 and 29 or otherwise to (i) open streets, (ii) make utility connections for water, sewer, storm water, gas, electric, cable or other utilities or (iii) cross sidewalks from time to time.

H. <u>Light Ordinance</u>

Revised Ordinances §§20-23 to 20-28 provided limitations on installation of light sources which do not conform to the criteria stated. §20-26 provides for waivers to be granted by the Planning and Development Board. To the extent that any light source may not conform to the requirements of §20-24 or that the requirements of that section may be inconsistent with §5.1 the Applicant seeks a comprehensive permitin lieu of any waiver requested under §7.8.

I. Additional Relief

The applicant requests a comprehensive permit in lieu of all other permits, licenses or approvals in as may be issued by the City of Newton as necessary to conform the relief sought to the plans filed with the application as the same may be amended from time to time. Included within the relief sought are all ancillary, subsidiary, usual, customary unnecessary local permits, approvals or licenses in lieu of which the board may grant a Comprehensive Permit to the extent necessary to conform to the relief required for construction of the plans submitted here with as may be amended from time to time.

City of Newton Massachusetts ZONING BOARD OF APPEALS

Premises affected: An 18,760 sq. ft. lot of land on Auburn Street

Metro West Collaborative Development (hereinafter the "Applicant") hereby applies to the Board of Appeals of the City of Newton, Massachusetts, pursuant to General Laws, Chapter 40B, Section 20 through 23, as amended, for the issuance of a Comprehensive Permit authorizing the Applicant to rehabilitate the existing single family dwelling, construct a new two-family dwelling and a congregate living facility containing separate living facilities for 5 residents for a total of eight affordable rental units, that include two 3-bedroom units affordable to households earning 80% of area median income and one 2-bedroom unit and five single room occupancies affordable to households earning 50% of area median income and on land located at 236 Auburn Street in Newton, Massachusetts. The Applicant and the development are more particularly described in the exhibits hereto annexed and submitted simultaneously here with all of which are incorporated herein by reference and constitute the documents required to be submitted under the regulations for filing a 40B Application by the Massachusetts Department of Housing and Community Development (760 CMR 56.00)

Site Plan with Setbacks, Elevations, Floor Plans

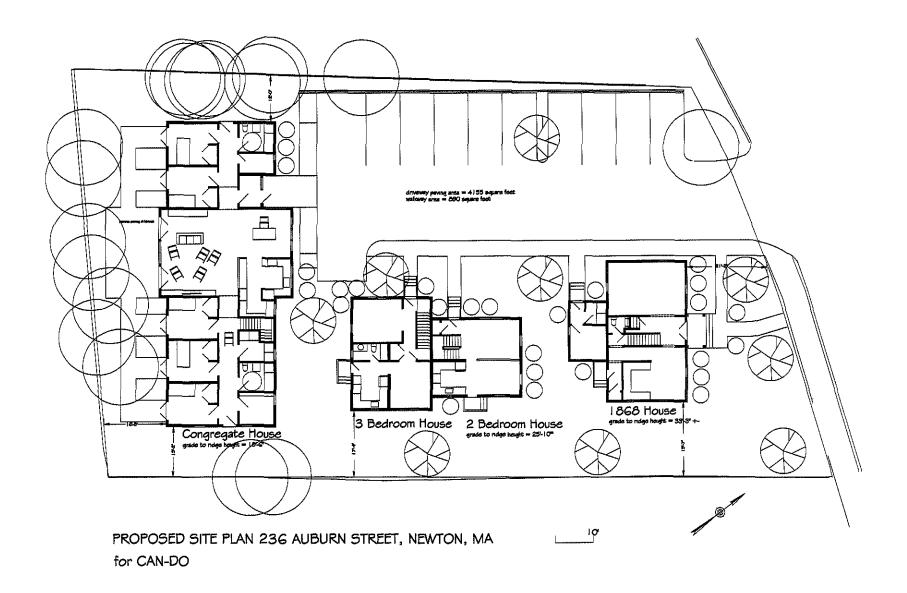
Note:

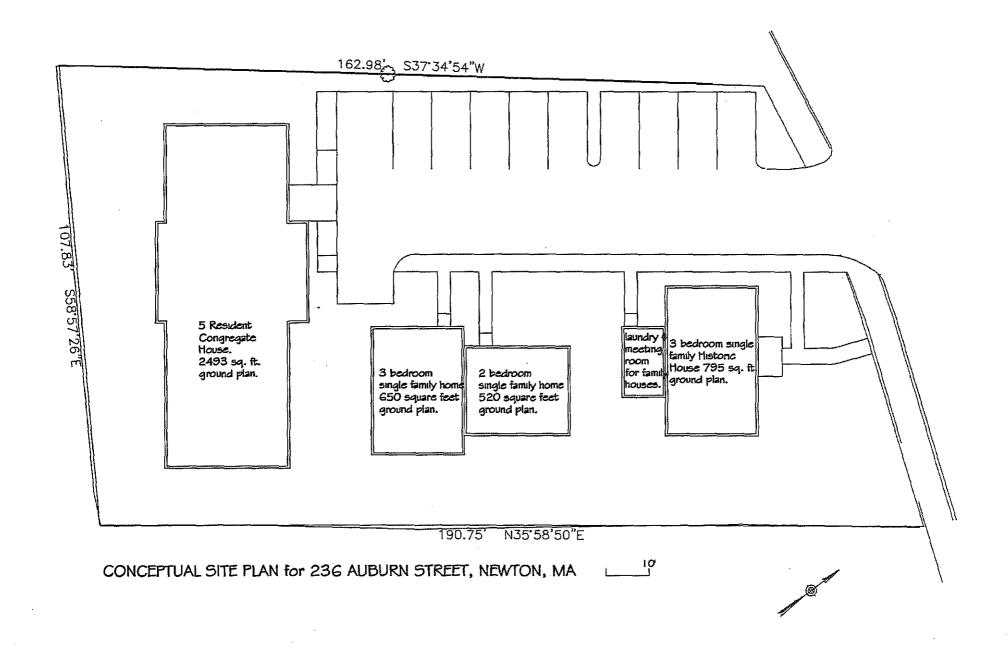
Building footprints cover 23% of site, impervious surface covers 45%

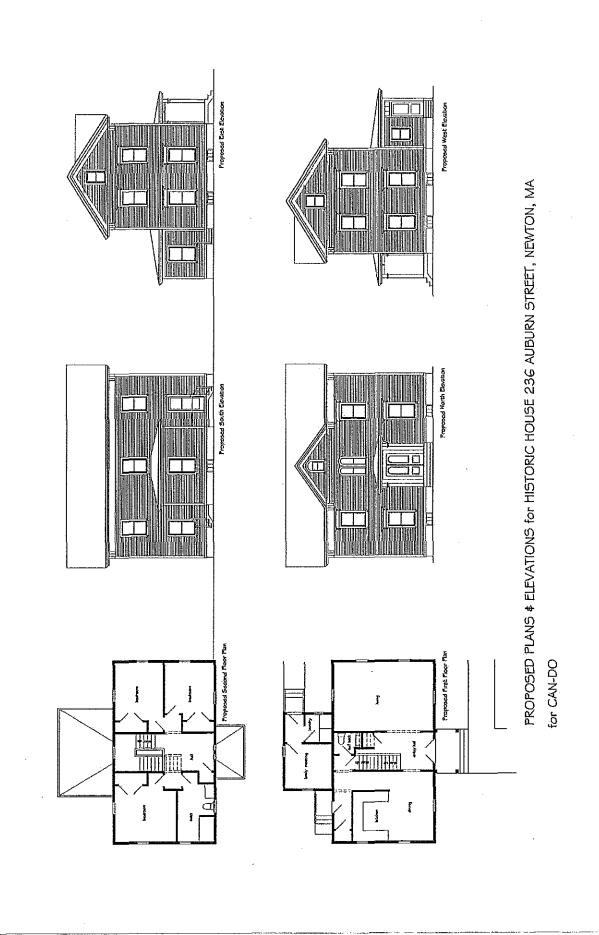


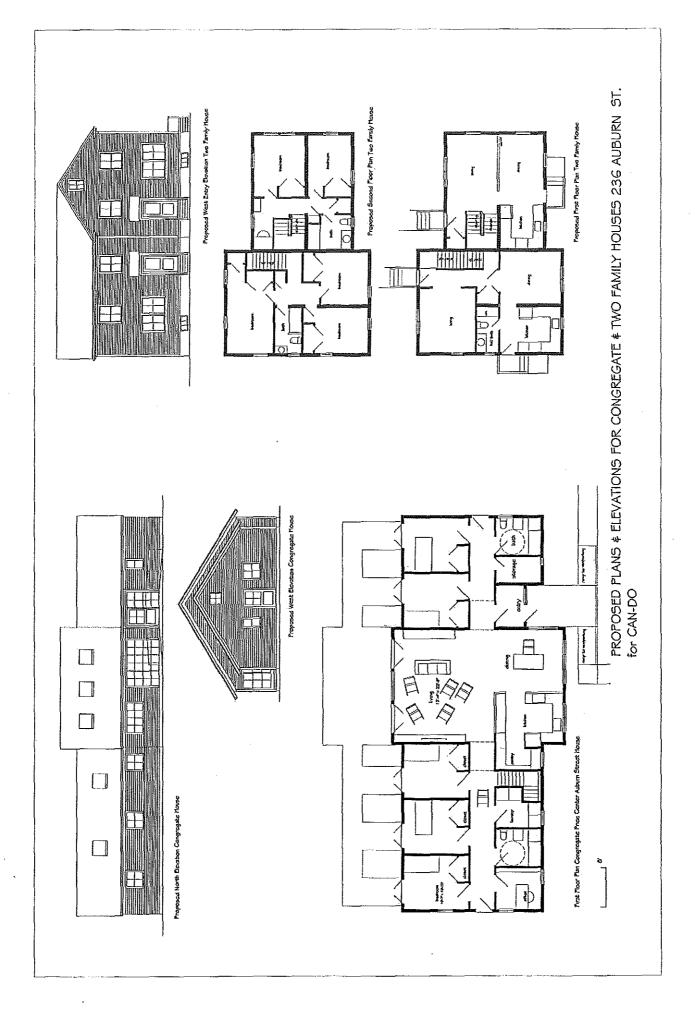


PERSPECTIVE SKETCH LOOKING NORTHWEST









Green and Sustainable Construction Features

Green and Sustainable Features of 236 Auburn Street:

The existing house will be restored using wood clapboard siding and will have a new concrete foundation with energy standard foundation insulation and floor insulation. This makes it much less energy consuming than the existing granite foundation, with its leaks and lack of any insulation. The inside of the historic house will be gutted and all the exterior walls and attic will be insulated to meet the MA Energy Code, making it a much higher standard than the existing.

The new housing will be built to meet MA Energy Code and Stretch Code standards, and will be assembled off site in a factory, minimizing the site labor. This modular principle is the wave of the future to produce tight, factory precision in new construction.

The congregate house will also be modular, and will be built to the MA Energy Code and Stretch Code standards. The house will be completely accessible for its developmentally disabled clientele and will be built of safe and durable materials to provide a high-quality standard for that population.



236 Auburn Street Newton MA

Feasibility Study Cost Estimate

Prepared for:-Terry Heinlein

Prepared by:D G Jones International, Inc.
3 Baldwin Green Common, Suite 202,
Woburn, MA 01801-1868
email: boston@dgjonesboston.com
Tel: 781-932-3131

April 21, 2017

SUMMARY

| SUMMARY | | | | | | | | | | | | | | |
|--|--|--------------|--------|---------|-----------------|---------|---------|---------|----------|---------|-------------|-------------|---------|---|
| | | CON | SOLID/ | TED | Existi | ng Hous | e | Congre | gate Hor | ise | Two Far | - | ise | Sitework/Site Utilitles |
| GROSS FLOOR AREA (in square feet) | - | | 10,991 | | | 2,569 | | | 4,996 | | | 3,426 | | |
| Element Name | nangeau aurag sak | ere er er er | 4244 | egara e | Cost S | | | Cost S | | 77. | Cost S | <u>S/sf</u> | 100 | and managed and |
| A Substructure | 200000000000000000000000000000000000000 | 356,682 | | 22.53% | 86,675 | | | 171,125 | | 31.76% | 98,582 | 28.77 | 24.82% | |
| Foundations | | 159,190 | | 10.05% | 43,074 | | 10.69% | 74,438 | 14.90 | 13.79% | 41,678 | 12.17 | 10.49% | |
| Basement Construction | | 197,492 | | 12.47% | 43,601 | 16.97 | 10.82% | 96,987 | 19.41 | 17.97% | 56,904 | 16.61 | 14,33% | mings of Application |
| B Shell | 4 4 4 4 4 4 4 4 1 4 <u>4 4 1 1 1 1 1 1 1 1</u> | 150,488 | 13.69 | 9.50% | 91,982 | | 23.58% | 22,641 | 4,53 | 4.19% | 32,866 | 9,59 | 8.25% | 0 |
| Superstructure | | 6,218 | 0,57 | 0.39% | 6,218 | 2.42 | 1.54% | 0 | 0.00 | 0.00% | 0 | 0.00 | 0.00% | |
| Exterior Enclosure | | 126,243 | 11.49 | 7.97% | 70,737 | | 17.56% | 22,641 | 4.53 | 4.19% | 32,866 | 9.59 | 8.28% | |
| Roofing | z eksina enversasionin | 18,027 | 1,64 | 1.14% | 18,027 | 7.02 | 4.47% | 0 | 0.00 | 0.00% | 0 | 0.00 | 0.00% | |
| C Interiors | Hillian and Shire | 141,693 | 12.84 | 8.91% | 90,291 | | 27.11% | 25,322 | 5.07 | 4.69% | 25.481 | 7.44 | 6.12% | 0 |
| Interior Construction | | 59,828 | 5.44 | 3.78% | 37,078 | 14.43 | 9.20% | 15,613 | 3.13 | 2,89% | 7,138 | 2,08 | 1.80% | |
| Stairs | | 35,121 | 3.20 | 2.22% | 16,169 | 6.29 | 4.01% | 3,464 | 0.69 | 0.64% | 15,488 | 4.52 | 3.90% | |
| Interior Finishes | | 46,144 | 4,20 | 2.91% | 37,044 | 14.42 | 9.20% | 6,245 | 1.25 | 1.16% | 2,855 | 0.83 | 0.72% | La estadores a |
| D Services | | 145,972 | 13.28 | 9.22% | 77,333 | 36.10 | 19.20% | 45,901 | 9.19 | 8,50% | 22,738 | 6,64 | 5.73% | 0 |
| Conveying Systems | | 0 | 0.00 | 0.00% | 0 | 0.00 | 0.00% | 0 | 00,00 | 0.00% | 0 | 0.00 | 0.00% | |
| Plumbing | | 19,720 | 1.79 | 1.25% | 19,720 | 7,68 | 4.90% | . 0 | 00,00 | 0.00% | 0 | 0,00 | 0.00% | |
| Heating, Ventilating and Air Conditioning (HVAC) | | 70,115 | 6,38 | 4.43% | 35,378 | 13.77 | 8.78% | 23,419 | 4,69 | 434% | 11,318 | 3.30 | 2.85% | |
| Fire Protection Systems | | 0 | 0,00 | 0,00% | 0 | 0.00 | 0.00% | 0 | 0,00 | 0.00% | 0 | 0,00 | 0.00% | |
| Electrical Systems | | 56,136 | 5,11 | 3,55% | 22,234 | 8.65 | 5.52% | 22,482 | 4.50 | 4.16% | 11,420 | 3.33 | 2.88 | |
| E Equipment and Furnishings | | 17,265 | 1.57 | 1.09% | 17,205 | 6,70 | 4.27% | 6 | 0,00 | 0.00% | 79.55.56.60 | 0,00 | 0,00% | 0 |
| Equipment | | 5,505 | 0,50 | 0.35% | 5,505 | 2.14 | 1.37% | 0 | 0,00 | 0.00% | 0 | 0,00 | 0.00% | |
| Furnishings | | 11,700 | 1.06 | 0.74% | 11,700 | 4.55 | 2.90% | 0 | 0.00 | 0.0014 | 0 | 0.00 | 0.00% | 4, 1111, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, |
| F Special Construction and Demolition | | 528,355 | 48.07 | 33.37% | 36,355 | 14.15 | 9.02% | 274,500 | 54.94 | 50.85% | 217,500 | 63.49 | 54.76% | AND DESCRIPTION |
| Special Construction | | 508,842 | 46.30 | 32.14% | 16,842 | 6,56 | 4.18% | 274,500 | 54.94 | 50.85% | 217,500 | 63,49 | 54,76% | |
| Selective Demolition | As a manager of the fi | 19,513 | 1.78 | 1.23% | 19,513 | 7.60 | 4.84% | 0 | 0.00 | 0.00% | 0 | 0.00 | 0.00% | ara arabahara |
| G Building Sitework | | 243,601 | 22.16 | 15.38% | 7.7.7.7.7.7.7.0 | 0,00 | 0.00% | 0 | 0.00 | 0.00% | 0 | 0.00 | 0.00% | 243,601 |
| Site Preparation | | 88,571 | 8,06 | 5.59% | 0 | 0.00 | | 0 | 0.00 | | 0 | 0.00 | | 88,571 |
| Site Improvements | | 71,215 | 6.48 | 4.501% | 0 | 0.00 | | 0 | 0.00 | | 0 | 0.00 | | 71,215 |
| Site Civil/Mechanical Utilities | | 51,865 | 4.72 | 3.28% | 0 | 0.00 | | 0 | 0.00 | | 0 | 0.00 | | 51,865 |
| Site Electrical Utilities | | 31,949 | 2.91 | 2.02% | 0 | 0.00 | | 0 | 0,00 | | 0 | 00,0 | | 31,949 |
| Other Site Construction | | 0 | 0.00 | 0,00% | 0 | 0,00 | | 0 | 0.00 | | 0 | 0.00 | | |
| Sub-Total Construction | | 1,583,396 | 144,06 | 100.00% | 402,840 | 156,81 | 100.00% | 539,789 | 108,04 | 100.00% | 397,166 | 115.93 | 100.00% | 243,601 |
| | _ | | | | | | | | | | | | | |
| General Conditions/Requirements | (11,00%) | 174,174 | 15.85 | | | | | | | | | | | |
| Payment & Performance Bond | 1.00% | 17,576 | 1.60 | | | | | | | | | | | |
| General & Excess Liability Insurance | 1.25% | 22,189 | 2.02 | | | | | | | | | | | |
| Builders Risk Insurance | | By Owner | | | | | | | | | | | | |
| Building Permit Fee | 0.75% | 13,480 | 1.23 | | | | | | | | | | | |
| Escalation to mid-point of construction 3Q2018 | 6,3125% | 114,308 | 10.40 | | | | | | | | | | | |
| Estimating Contingency | Excluded | by Architect | | | | | | | | | | | | |
| GC's Fee | (3.00%) | 57,751 | 5,25 | | | | | | | | | | | |
| Sales Tax | Same and the same of the | Excluded | | | | | | | | | | | | |

Construction Contingency

Total Construction Cost 1,982,876 180.41

By Owner

Notes

- Brief project description:-
 - Relocation of existing house and 2# new modular housing units with associated site work.
- 2. The estimate is based on the following:-
 - Open shop wage rates.
 - Competitive bid.
 - GC type project.
 - Receipt of 5# bona fide bids.
 - Single contract, no phasing.
 - Estimate based on assumed construction start date of 1Q2018.
 - Construction period 10-12 months.
- 3. The gross floor area is based on the following:-
 - Measurement is taken to the outside face of the exterior wall, measured through all stair wells, elevator shafts and ducts.
- 4. Story heights:-
 - Varies
- 5. General Conditions/Requirements for this project are priced as a percentage on the Summary page...
- 6. Special Conditions for this project are not applicable.
- 7. Escalation to the mid-point of construction (3Q2018) allowed at: -
 - 5%/annum.
- 8. Estimating contingency is an allowance for future design modifications/additions, which alter the cost of the building as the design progresses, this percentage reduces as the design develops. It is based on a percentage of the sum of Sub-Total Construction, General Conditions/Requirements and Escalation. For this level of estimate the following has been included:-
 - Excluded by Architect
- 9. Construction contingency is an allowance for scope/design modifications made by the owner during construction and also for any unforeseen circumstances. It is based on a percentage of the sum of Sub-Total Construction, General Conditions/Requirements, Escalation and Estimating Contingency. The following has been included:-
 - By Owner

Notes (Cont'd)

- 10. This estimate has been prepared from the following design information:-
 - Architectural floor plans and elevations received 04/10/2017.
 - Narrative received 04/10/2017.
 - Telecons, meeting and E-mails with/from Terry Heinlein.
- 11. The estimate includes the following:-
 - Building Permit Fee.
 - Conduit & draw wire only to low voltage systems.
 - See Estimate.
- 12. The estimate excludes the following:-
 - Utility company backcharges.
 - Sales tax.
 - Design consultant's fees.
 - Rock removal during excavation work.
 - Water removal during excavation work.
 - Loose furniture, fittings and equipment.
 - Telephones.
 - Complete audiovisual.
 - Cameras, monitors, videos etc.
- 13. Allowances:-
 - Hazmat abatement no budget number provided by specialist sub consultant.
 - See Estimate.
- 14. Assumptions:-
 - See Estimate.
- 15. Estimates by other firms:-
 - . None

Notes (Cont'd)

- 16. Common abbreviations included in this estimate:-
 - cd = construction documents.
 - cf = cubic foot.
 - cy = cubic yard.
 - dd = design development.
 - ea = each.
 - EO = extra over.
 - flr = floor.
 - lb = pound.
 - If = linear foot.
 - ls = lump sum.
 - ly = linear yard.
 - mg = make good.
 - opg = opening.
 - rsr = riser.
 - sd = schematic design.
 - sf = square foot.
 - sy = square yard.
 - tn = ton.
 - vb = vapor barrier.
- 17. Builders work in connection (BWIC) with conveying, mechanical and electrical systems includes the following:-
 - Drilling and coring.
 - Chasing.
 - Cutting and patching.

| Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area 965 sf 44.64 43,074 43,074 Foundations Total 43,074 Basement Construction Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area 802 sf 54.37 43,601 43,601 Basement Construction Total 43,601 43,601 |
|--|
| reinforcement, damproofing, insulation, vapor barrier, etc - footprint area 965 sf 44.64 43,074 43,074 Foundations Total 43,074 43,074 Basement Construction Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area 802 sf 54.37 43,601 43,601 |
| Basement Construction Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area 802 sf 54.37 43,601 43,601 |
| Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area 802 sf 54.37 43,601 43,601 |
| reinforcement, damproofing, insulation, vapor barrier, etc - footprint area 802 sf 54.37 43,601 43,601 |
| Basement Construction Total 43,601 43,601 |
| |
| Superstructure |
| Structural Allowance - Repair existing frame structure I ls 2,750.00 2,750 2,750 |
| Structural Decks Structural Decks Not Required |
| Miscellaneous Structural Items Moisture mitigation system to floor slabs Not Required |
| Structural Fireproofing Structural Fireproofing Fire protection (allow, gfa) 2,569 sf 0.50 1,285 |
| Intumescent paint to exposed steel, allow Adapt and amend Fire Protection/Firestopping at Existing Building 2,569 sf 0.85 2,184 3,468 |
| Superstructure Total 6,218 6,218 |
| Exterior Enclosure |
| Exterior Wall System Exterior Wall Finish System - Existing House Cedar clapboard siding w/stain 2,086 sf 8.75 18,253 |
| Cedar clapboard siding w/stain including back up 110 sf 17.85 1,964 |
| New exterior wall concrete band (Below existing bldg) Restore trims, etc at gables/eaves/corners 123 sf Included w/Foundation 15.00 4,620 |
| Exterior Wall Finish System - Addition |
| Cedar clapboard siding w/back up 279 sf 17.85 4,980 |
| New exterior wall concrete band (Below addition) 48 sf Included w/Foundation Allowance - Wall trims 1 ls 249.01 249 30,065 |
| |
| Exterior Glazing Systems Restore Existing Windows - Existing House |
| Existing window - 1' 5" x 5' 5" (Curved on top) 2 ea 423.30 847 |
| Existing window - 2' 1" x 3' 5" (Curved on top) 1 ea 391.25 391 |
| Existing window - 2' 6" x 1' 6" (Basement) 4 ea 206.25 825 |
| Existing window - 2' 5" x 3' 11" 2 ea 521.75 1,044 |
| Existing window - 2' 10" x 5' 3" 4 ea 820.05 3,280 Existing window - 2' 10" x 5' 5" 4 ea 846.60 3,386 |
| Existing window - 2' 10" x 5' 5" 4 ea 846.60 3,386 Existing window - 3' 0" x 5' 3" 6 ea 866.25 5,198 |
| Existing window - 3' 0" x 5' 5" 2 ea 894.30 1,789 |

| Description | Qty | Unit | Rate | Amount | Total |
|--|--------------|---------------|----------|--------------|--------|
| Triple Glazed Windows - Addition | | | | | |
| New window - 2' 6" x 3' 10" (Addition) | ì | ea | 864.00 | 864 | |
| New window - 3' 0" x 5' 6" (Addition) | 2 | ea | 1,485.00 | 2,970 | |
| Window lintel at extg window | 80 | lf | 16.00 | 1,280 | |
| Trim to exterior window | 406 | lf | 9.00 | 3,654 | 25,527 |
| Exterior Doors | | | | | |
| Restore Existing Doors - Existing House | | | | | |
| Existing SL door - 2' 8" x 7' 0" | 1 | ea | 875.00 | 875 | |
| Existing DL door - 4' 8" x 7' 7" | 1 | ea | 1,250.00 | 1,250 | |
| New Doors - Addition | | | | | |
| New SL door & transom above - 3' 6" x 8' 0" (Addition) | 1 | ea | 1,985.00 | 1,985 | 4,110 |
| General Items | | | | | |
| Staging/Scaffolding | 1,770 | sf | 3.00 | 5,310 | |
| Flashing | 406 | if | 9.00 | 3,654 | |
| Sealant | 406 | lf | 2.25 | 914 | |
| Wood Blocking | 406 | lf | 2,85 | 1,157 | |
| Expansion, control & isolation joints | | |] | Not Required | 11,035 |
| Exterior Enclosure | <u>Total</u> | | | 70,737 | 70,737 |
| Roofing | | | | | |
| Roofing Systems | | | | | |
| Allowance - Repair/replace extg roof | 963 | sf | 5.00 | 4,815 | |
| Closed cell foam insulation to extg roof | 963 | sf | 3.85 | 3,708 | |
| New roof (Addition) including framing, etc | 203 | sf | 16.65 | 3,380 | |
| New roof (Porch) including framing, etc | 67 | \mathbf{sf} | 16,65 | 1,116 | |
| Trim to eaves | 60 | lf | 25.00 | 1,500 | |
| Column at porch | 4 | ea | 450.00 | 1,800 | 16,318 |
| General Items | | | | | |
| Roof accessories, allow | | | | | |
| Roof Hatch System | | |] | Not Required | |
| Metal access ladder | 1 | ea | 600.00 | 600 | |
| Fall protection equipment | | | 1 | Not Required | |
| Miscellaneous flashings | 56 | lf | 9.00 | 504 | |
| Sealant | 56 | lf | 2.25 | 126 | |
| Blocking | 168 | lf | 2,85 | 479 | 1,709 |
| Roofing | <u>Total</u> | | | 18,027 | 18,027 |
| Interior Construction | | | | | |
| Interior Construction | | | | | |
| Partitions | | c | | | |
| Interior Partitions | 1,800 | sf | 8.50 | 15,300 | |
| Sealant to partitions | 800 | lf 1£ | 1.25 | 1,000 | 17.760 |
| Blocking | 400 | lf | 2.65 | 1,060 | 17,360 |
| Interior Doors | | | | | |
| Interior Frame & Doors | | | | | |
| SL wood door, frame, hardware & paint | 11 | ea | 1,094.00 | 12,034 | |
| DL wood closet doors, frame, hardware & paint | 3 | ea | 1,329.00 | 3,987 | |
| Allow for | | | 1.000.00 | | |
| Access doors | 1 | ls | 1,000.00 | 1,000 | |
| Wood blocking | 247 | lf | 2.65 | 655 | 10.000 |
| Sealant | 494 | lf | 1.25 | 618 | 18,293 |

| Description | Qty | Unit | Rate | Amount | Total |
|---|--------------|----------|-------------------|---------------------|--------|
| Fittings Bathroom Accessories Single toilet | Į. | ea | 350.00 | 350 | |
| Single toilet/bathtub Lockers Fire Extinguisher Cabinets:- | I | ea | 550,00 | 550 Not Required | |
| Fire extinguisher & cabinet, recessed type Allow for mounting brackets, etc | 1 | ea ea | 350.00 125.00 | 350 125 | 1,375 |
| Sealant and Blocking Sealant at sanitary appliances & counters | 22 | lf | 2.25 | 50 | 50 |
| Interior Construction | <u>Total</u> | 11 | 2.23 | 37,078 | 37,078 |
| | | | | | |
| <u>Stairs</u> | | | | | |
| Exterior Stairs Construction Wood Stairs and Landing | | | | | |
| Exterior stair - 3' 6" wide x 3# riser | 1 | ea | 1,815.00 | 1,815 | |
| Exterior stair - 4' 4" wide x 3# riser | 1 | ea | 1,889.70 | 1,890 | |
| Front Stair - 9' 2" wide x 3# riser Landing to stair | 1 31 | ea sf | 2,325.30 15.00 | 2,325 465 | |
| Railing | 31 | 31 | 15.00 | 403 | |
| Guardrail to landing | 11 | lf | 85.00 | 935 | |
| Guardrail to stairs Handrail to stairs | 6 2 | lf lf | 90.00 | 540 | 9 020 |
| riandraii to stairs | 2 | II | 30.00 | 60 | 8,030 |
| Interior Stairs | | | | | |
| Stair & railing from 1st Floor to 2nd Floor | 1 | flr | 4,675.00 | 4,675 | |
| Stair & railing from Basement to 1st Floor | 1 | flr | 3,464.00 | 3,464 | 8,139 |
| <u>Stairs</u> | <u>Total</u> | | | 16,169 | 16,169 |
| Interior Finishes | | | | | |
| Floor Finish System | | | | | |
| Allow to 1st/2nd Floors | 1,767 | sf | 7.75 | 13,694 | |
| Allow to Basement | 802 | sf | 1.00 | 802 | 14,496 |
| Base Finish System | | | | | |
| Wall base | 688 | lf | 4.50 | 3,096 | 3,096 |
| Walls Finish System | | | | | |
| Allow to 1st/2nd Floors | 6,192 | sf | 2.00 | 12,384 | 12,384 |
| Ceilings Finish System | | | • | | |
| Allow to 1st/2nd Floors | 1,767 | sf | 4.00 | 7,068 | 7,068 |
| Interior Finishes | <u>Total</u> | | | 37,044 | 37,044 |

| Description | Qty | Unit | Rate | Amount | Total |
|--|--------------|----------|--------------------------|---------------------|--------|
| Conveying Systems | | | | | |
| No Work in this Element | | | | | |
| Conveying Systems | <u>Total</u> | | | 0 | 0 |
| Plumbing | | | | | |
| Sanitary Fixtures, Etc. | | | | | |
| Plumbing Fixtures | | | 1 650 00 | 0.000 | |
| Water closet (Renovation) | 2 | | 1,650.00 | 3,300 | |
| Lavatory (Renovation) | 2 | ea | 1,600.00 2,250.00 | 3,200 2,250 | |
| Bathtub/Shower (Renovation) Water closet (Addition) | 1 | ea ea | 1,650.00 | 1,650 | |
| Lavatory (Addition) | 1 | ea | 1,600.00 | 1,600 | |
| Hook-up for laundry (Addition) | 1 | ea | 950.00 | 950 | |
| Hook-up for dishwasher (Addition) | 1 | ea | 325.00 | 325 | |
| Plumbing Equipment | • | | | | |
| Allowance - Water heater | 1 | ea | 1,000.00 | 1,000 | |
| Allowance - Pressure reducing valve | ŧ | ea | 100,00 | 100 | 14,375 |
| Plumbing Fixture Piping Plumbing Fixture Piping | | | Include | ed w/Fixtures | |
| Underground Piping | | | | | |
| Allowance - Underground Piping | 1,767 | sf | 1,50 | 2,651 | 2,651 |
| Natural Cas Santana | | | | | |
| Natural Gas System Allowance - Natural Gas System | 1,767 | sf | 0.75 | 1,325 | 1,325 |
| Storm Water System | | | | | |
| Rainwater systems | | |] | Not Required | |
| General Items | | | | | |
| Access panels | 1 | ls | 350.00 | 350 | |
| Seismic bracing to pipework | 1 | ls | 140.26 | 140 | |
| Permit fees | 1 | ls | 18.84 | 19 | |
| Allow for Commissioning by Sub-Contractor | I | ls | 94.30 | 94 | |
| Owner Training, allow Test & balance | 1 | ls | 379.08 | Not Required 379 | 982 |
| | | | 212100 | | |
| Sub Bid | Total | | | 19,333 | 19,333 |
| Builders work in connection with Plumbing @ 2% General Contractor's overhead and profit | 1 | | 386,66 's Fee Carried | 387 in Summary | 387 |
| · | <u>Total</u> | | | 19,720 | 19,720 |
| Plumbing | <u>10tai</u> | | | 17,720 | 15,720 |
| | | | | | |
| Heating, Ventilating and Air Conditioning (HVAC) | | | | | |
| Equipment | | | | | |
| Heating system - Baseboard hydronic, gas fueled | 1,767 | sf | 7.50 | 13,253 | |
| Exhaust at Bathroom including ductwork, etc | 2 | ea | 640.00 | 1,280 | |
| Air conditioning unit & condensor and boiler | 1 | ls | 12,250.00 | 12,250 | 26,783 |
| Pipework | | | | | |
| Piping System | 1,767 | sf | 3.00 | 5,301 | 5,301 |
| | | | | | |

| Description | Qty | Unit | Rate | Amount | Total |
|---|-------------------------------|----------------------|----------------------------|--|--------|
| HVAC Controls Automatic Temperature Controls system | 1 | ls | 1,500,00 | 1,500 | 1,500 |
| General Vibration isolation Commissioning by Sub-Contractor Owner Training, allow Test & balance | 1 | ls | | 252 169 Not Required | 1.101 |
| Sub Bid | 1 Total | ls | 680.09 | 680 | 1,101 |
| | | | | 34,685 | 34,685 |
| Builders work in connection with HVAC @ 2% General Contractor's overhead and profit | 1 | | 693.69 GC's Fee Carried | 694 I in Summary | 694 |
| Heating, Ventilating and Air Conditioning (HVAC) | <u>Total</u> | | | 35,378 | 35,378 |
| Fire Protection Systems | | | | | |
| No Work in this Element | | | | | |
| Fire Protection Systems | <u>Total</u> | | | 0 | 0 |
| Electrical Systems | | | | | |
| Electrical Equipment Allowance - Panelboards, etc. | 1,767 | sf | 0.70 | 1,237 | 1,237 |
| Feeders Allowance - Feeders | 1,767 | sf | 0.35 | 618 | 618 |
| Small Power Allowance - Small power | 1,767 | sf | 2.50 | 4,418 | 4,418 |
| Electrical Power to: - HVAC Equipment Plumbing Equipment | 1 | ls ea | 1,500.00 325.00 | 1,500 325 | 1,825 |
| Lighting Allowance - Lighting System Allowance - Lighting Controls | 1,767 1,767 | | 4.50 1.00 | 7,952 1,767 | 9,719 |
| Fire Alarm Allowance - Fire Alarm System | 1,767 | sf | 1.00 | 1,767 | 1,767 |
| Low Voltage Systems (conduit & draw wire only) Allowance | 1,767 | sf | 0.35 | 618 | 618 |
| General Grounding, allow Lightning protection Seismic restraint, allow Permit fees Allow for Commissioning by Sub-Contractor Owner Training, allow Test | 1,767 1,767 1 1 1 | sf sf ls ls | 158.14 21.24 106.32 | 884 Not Required 158 21 106 Not Required 427 | 1,597 |
| Sub Bid | Total | | | 21,798 | 21,798 |

| Description | Qty | Unit | Rate | Amount | Total |
|--|----------------------|----------------------|-------------------------------------|--------------------------------|--------|
| Builders work in connection with electrical @ 2% General Contractor's overhead and profit | 1 | ls GC | 435.97 's Fee Carried | 436 in Summary | 436 |
| Electrical Systems | <u>Total</u> | | | 22,234 | 22,234 |
| <u>Equipment</u> | | | | | |
| Commercial Grade Kitchen Equipment Commercial kitchen equipment | | | 1 | ot Required | |
| Residential Appliances Allowance - Kitchen Appliances Range cooker/oven Dishwasher Full size refrigerator | 1 1 1 | ea ea ea | 875.00 685.00 1,450.00 | 875 685 1,450 | |
| Microwave Allowance - Laundry Appliances Washer Dryer | 1 1 1 | ea ea ea | 375.00 975.00 1,145.00 | 375 975 1,145 | 5,505 |
| Projection Screens Projection screens, allow | | | N | ot Required | |
| <u>Equipment</u> | <u>Total</u> | | | 5,505 | 5,505 |
| <u>Furnishings</u> | | | | | |
| Window Treatment Window Treatment Exterior - Roller window shades Interior - Roller window shades | | | | Iot Required Iot Required | |
| Custom Casework Kitchen Plam base cabinet Plam wall cabinet Solid surface countertop to base cabinet Backsplash | 20 20 20 25 | lf lf lf lf | 275.00 175.00 115.00 16.00 | 5,500 3,500 2,300 400 | 11,700 |
| <u>Furnishings</u> | <u>Total</u> | | | 11,700 | 11,700 |
| Special Construction | | | | | |
| Move existing house to new foundations | 1 | ls | 16,842.00 | 16,842 | 16,842 |
| Special Construction | <u>Total</u> | | | 16,842 | 16,842 |
| Selective Demolition | | | | | |
| Demolition Remove and Dispose - Exterior R&D: Exterior wall finishes Remove and Dispose - Interior Gut out demolition (1st/2nd Floors & Attic) | 2,086 1,767 | sf sf | 0.45 4.50 | 939 7,952 | |

| Description | Qty | Unit | Rate | Amount | Total |
|---|--------------|------|-----------|---------------|--------|
| Allow for: - | | | | | |
| Hazardous material abatement & removal, allow | 1 | ls | 10,000.00 | 10,000 | |
| Make safe MEP prior to commencement of work | | | Inc | cluded w/Site | |
| Miscellaneous demolition/alteration | | | | | |
| Temporary screen and barriers | | | | | |
| Remove rubbish off site | 1 | ls | 622.31 | 622 | 19,513 |
| Selective Demolition | <u>Total</u> | | | 19,513 | 19,513 |

| Description | Qty | Unit | Rate | Amount | Total |
|--|-----------------|----------|------------------------|------------------------------|--------|
| Foundations | | | | | |
| Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area | 2,498 | sf | 29.80 | 74,438 | 74,438 |
| <u>Foundations</u> | <u>Total</u> | | | 74,438 | 74,438 |
| | | | | | |
| Basement Construction | | | | | |
| Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area | 2,498 | sf | 38.83 | 96,987 | 96,987 |
| Basement Construction | <u>Total</u> | | | 96,987 | 96,987 |
| | | | | | |
| Superstructure | | | | | |
| No Work in this Element | | | | | |
| Superstructure | Total | | | 0 | 0 |
| | | | | | |
| Exterior Enclosure | | | | | |
| Exterior Wall System | | | | | |
| Exterior Wall Finish System Cedar clapboard siding w/stain | 1,831 | sf | 8.75 | 16,021 | |
| New exterior wall concrete band Allowance - Wall trims | 160 1 | sf Is | Included v 1,602,13 | v/Foundation 1,602 | 17,623 |
| | 1 | 13 | 1,002.13 | 1,002 | 17,023 |
| Exterior Glazing Systems Double Hung Windows | | | Included w/N | Modular Bidg | |
| Exterior Doors | | | | | |
| Exterior Doors | | | Included w/N | Modular Bidg | |
| General Items | | | | | |
| Staging/Scaffolding Flashing | 1,200 126 | | 9.00 | 3,600 1,134 | |
| Sealant | 126 | | 2.25 | 284 | |
| Wood Blocking Expansion, control & isolation joints | | | | Not Required Not Required | 5,018 |
| Exterior Enclosure | Total | | | 22,641 | 22,641 |
| Zarana Zarana | <u> 1 01411</u> | | | ¥#,U71 | 22,071 |
| Roofing | | | | | |
| Roofing Systems | | | | | |
| Sloped Roofing System | | | Included w/N | Aodular Bldg | |
| Roofing | <u>Total</u> | | | 0 | 0 |

Interior Construction

| Description | Qty | Unit | Rate | Amount | Total |
|---|--------------|-------------------------|-------------------|--------------|--------|
| Interior Construction | | Included w/Modular Bldg | | | |
| Insulate ceiling of Basement Allow for work to Basement | 2,498 | | 2.25 4.00 | 5,621 | 15 (12 |
| Allow for work to pascinetti | 2,498 | Sī | 4.00 | 9,992 | 15,613 |
| Interior Construction | <u>Total</u> | | | 15,613 | 15,613 |
| | | | | | |
| <u>Stairs</u> | | | | | |
| Stair & railing from Basement to 1st Floor | 1 | flr | 3,464.00 | 3,464 | 3,464 |
| <u>Stairs</u> | Total | | | 3,464 | 3,464 |
| | | | | | |
| Interior Finishes | | | | | |
| Interior Finishes | | | Included w/N | Andular Bldg | |
| Allow for work to Basement | 2,498 | sf | 2.50 | 6,245 | 6,245 |
| Interior Finishes | Total | | | 6,245 | 6,245 |
| | | | | | |
| Conveying Systems | | | | | |
| No Work in this Element | | | | | |
| Conveying Systems | <u>Total</u> | | | 0 | 0 |
| | | | | | |
| Plumbing | | | | | |
| Plumbing | | | Included w/N | Aodular Bldg | |
| Plumbing | <u>Total</u> | | | 0 | 0 |
| | | | | | |
| Heating, Ventilating and Air Conditioning (HVAC) | | | | | |
| Heating, Ventilating and Air Conditioning (HVAC) | | | Included w/N | Aodular Bldg | |
| Air conditioning unit & condensor and boiler Allow for work to Basement | 1 2,498 | ls | 15,925.00 3.00 | 15,925 | 22.410 |
| Allow for work to Basement | 2,498 | sf | 3.00 | 7,494 | 23,419 |
| Heating, Ventilating and Air Conditioning (HVAC) | <u>Total</u> | | | 23,419 | 23,419 |
| | | | | | |
| Fire Protection Systems | | | | | |
| No Work in this Element | | | | | |
| Fire Protection Systems | <u>Total</u> | | | 0 | 0 |
| | | | | | |

Electrical Systems

| Description | Qty | Unit | Rate | Amount | Total |
|---|--------------|------|-------------------------|------------------------|---------|
| Electrical Systems Allow for work to Basement | 2,498 sf | | Included w/t | Aodular Bldg 22,482 | 22,482 |
| | | 3 21 | 9,00 | | |
| Electrical Systems | <u>Total</u> | | | 22,482 | 22,482 |
| | | | | | |
| <u>Equipment</u> | | | | | |
| Equipment | | | Included w/l | Aodular Bldg | |
| Equipment | <u>Total</u> | | | 0 | 0 |
| | | | | | |
| <u>Furnishings</u> | | | | | |
| Furnishings | | | Included w/N | Aodular Bldg | |
| <u>Furnishings</u> | Total | | | 0 | 0 |
| | | | | | |
| Special Construction | | | | | |
| Modular Buildings | | | | | |
| Single story, modular construction Connect modular units, allow | 1 1 | | 258,000.00 16,500.00 | 258,000 16,500 | 274,500 |
| | | 1 13 | 10,500.00 | | |
| Special Construction | <u>Total</u> | | | 274,500 | 274,500 |
| | | | | | |
| Selective Demolition | | | | | |
| No Work in this Element | | | | | |
| Selective Demolition | <u>Total</u> | | | 0 | 0 |

| Description | Qty | Unit | Rate | Amount | Total |
|--|---------------------|------|------------------------------|---|--------|
| Foundations . | | | | | |
| Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area | 1,142 | sf | 36.50 | 41,678 | 41,678 |
| <u>Foundations</u> | <u>Total</u> | | | 41,678 | 41,678 |
| | | | | | |
| Basement Construction | | | | | |
| Complete foundation system including excavation, concrete, formwork, reinforcement, damproofing, insulation, vapor barrier, etc - footprint area | 1,142 | sf | 49.83 | 56,904 | 56,904 |
| Basement Construction | <u>Total</u> | | | 56,904 | 56,904 |
| | | | | | |
| Superstructure | | | | | |
| No Work in this Element | | | | | |
| Superstructure | Total | | | 0 | 0 |
| | | | | | |
| Exterior Enclosure | | | | | |
| Exterior Wall System Exterior Wall Finish System Cedar clapboard siding w/stain New exterior wall concrete band Allowance - Wall trims | 2,545 302 1 | sf | 8.75 Included 2,226.88 | 22,269 w/Foundation 2,227 | 24,496 |
| Exterior Glazing Systems Double Hung Windows | | | Included w/ | Modular Bldg | |
| Exterior Doors Exterior Doors | | | Included w/i | Modular Bldg | |
| General Items Staging/Scaffolding Flashing Sealant Wood Blocking Expansion, control & isolation joints | 2,265 140 140 | lf | | 6,795 1,260 315 Not Required Not Required | 8,370 |
| Exterior Enclosure | <u>Total</u> | | | 32,866 | 32,866 |
| | | | | | |
| Roofing | | | | | |
| Roofing Systems Sloped Roofing System | | | Included w/ | Modular Bldg | |
| Roofing | <u>Total</u> | | • | 0 | 0 |
| | | | | | |

Interior Construction

236 Auburn Street, Newton, MA Feasibility Study Cost Estimate - Estimate Two Family House

| Description | Qty | Unit | Rate | Amount | Total |
|---|----------------|----------|------------------------------|--------------------------------|--------|
| Interior Construction Insulate ceiling of Basement Allow for work to Basement | 1,142 1,142 | sf sf | Included w/N 2,25 4.00 | Modular Bldg 2,570 4,568 | 7,138 |
| Interior Construction | <u>Total</u> | | | 7,138 | 7,138 |
| Stairs | | | | | |
| | | | | | |
| Exterior Stairs Construction Wood Stairs and Landing | | | | | |
| Exterior stair - 3' 4" wide x 3# riser | 2 | ea | 1,799.70 | 3,599 | |
| Exterior stair - 3' 6" wide x 4# riser | 2 | ea | 1,920.00 | 3,840 | |
| Landing to stair | 55 | sf | 15.00 | 825 | |
| Railing . | | | | | |
| Guardrail to landing | 28 | lf | 85.00 | 2,380 | |
| Guardrail to stairs | 14 | lf | 90.00 | 1,260 | 12.024 |
| Handrail to stairs | 4 | lf | 30.00 | 120 | 12,024 |
| Interior Stairs Construction Stair & railing from Basement to 1st Floor | 1 | flr | 3,464.00 | 3,464 | 3,464 |
| <u>Stairs</u> | <u>Total</u> | | | 15,488 | 15,488 |
| <u>Interior Finishes</u> | | | | | |
| | | | Included w/ | Modular Bldg | |
| Interior Finishes Allow for work to Basement | 1,142 | sf | 2.50 | 2,855 | 2,855 |
| Interior Finishes | Total | | | 2,855 | 2,855 |
| | | | | | |
| Conveying Systems | | | | | |
| No Work in this Element | | | | | |
| Conveying Systems | <u>Totai</u> | | | 0 | 0 |
| Plumbing | | | | | |
| Sanitary Fixtures, Etc. | | | Included w/ | Modular Bldg | |
| , | m . 1 | | | 0 | 0 |
| Plumbing | <u>Total</u> | | | U | U |
| Heating, Ventilating and Air Conditioning (HVAC) | | | | | |
| Heating Ventilating and Air Conditioning (HVAC) | | | Included w/ | Modular Bldg | |
| Heating, Ventilating and Air Conditioning (HVAC) Boiler | 2 | ea! | 3,375.00 | 6,750 | |
| Allow for work to Basement | 1,142 | | 4.00 | 4,568 | 11,318 |
| FIRM IN WOR IN DESCRION | -, | | | | |
| Heating, Ventilating and Air Conditioning (HVAC) | <u>Total</u> | | | 11,318 | 11,318 |

| Description | Qty | Unit | Rate | Amount | Total |
|---|---------------|------|-----------------------|-------------------------|---------|
| Fire Protection Systems | | | | | |
| No Work in this Element | | | | | |
| Fire Protection Systems | <u>Total</u> | | | 0 | 0 |
| | | | | | |
| Electrical Systems | | | | | |
| Electrical Systems | 1,142 | sf | Included w/N 10.00 | Vlodular Bldg 11,420 | 11,420 |
| Allow for work to Basement | Total | J. | | 11,420 | 11,420 |
| Electrical Systems | <u>i otat</u> | | | 11,120 | 11,120 |
| | | | | | |
| <u>Equipment</u> | | | | . f. 1.1 DIJ | |
| Equipment | | | included w/f | Modular Bldg | |
| <u>Equipment</u> | <u>Total</u> | | | 0 | 0 |
| | | | | | |
| Furnishings | | | | | |
| Furnishings | | | Included w/f | Modular Bldg | |
| <u>Furnishings</u> | <u>Total</u> | | | 0 | 0 |
| | | | | | |
| Special Construction | | | | | |
| Modular construction | 1 | ls | 203,000.00 | 203,000 | |
| Two story, modular construction Connect modular buildings | 1 | | 14,500.00 | 14,500 | 217,500 |
| Special Construction | <u>Total</u> | | | 217,500 | 217,500 |
| | | | | | |
| Selective Demolition | | | | | |
| No Work in this Element | | | | | |
| Selective Demolition | <u>Total</u> | | | 0 | 0 |

| Description | Qty | Unit | Rate | Amount | Total |
|--|-----------------|----------|------------------|------------------|--------|
| G10 Site Preparation | | | | | |
| Demolition | | | | | |
| Building Demolition | | | | | |
| R&D: Addition building to Existing House, 2 storys | 820 | sf | 16.00 | 13,120 | |
| Demolish bay window addition to existing house | 1 | ls | 1,650.00 | 1,650 | |
| Demolish and remove existing concrete slab | 1,622 | sf | 7.50 | 12,165 | |
| Demolish and remove existing foundation walls | 199 | lf | 28.00 | 5,572 | |
| Loading & removing off site including dump fees | 1 | ls | 4,876.05 | 4,876 | |
| Terminating & capping extg utilities | 1 | ls | 2,250.00 | 2,250 6,500 | |
| Hazardous material abatement & removal, allow | 10 100 | ls sf | 6,500.00 0.30 | 5,432 | |
| General site clearing/misc. demolition to remaining areas | 18,108 | SI | 0.30 | 3,432 | |
| Allow for | 1 | İs | 1,500.00 | 1,500 | |
| Miscellaneous demolition | 1 | is | 500.00 | 500 | 53,565 |
| Remove rubbish off site | 1 | 15 | 300.00 | 500 | 33,500 |
| Temporary work | , | | 260.00 | 1,250 | |
| Allowance - Inlet protection | 5 | | 250,00 6.00 | 3,516 | |
| Allowance - Silt fencing | 586 | ea | 1,500.00 | 1,500 | |
| Allowance - Stabilized construction entrances | 1 1 | ls | 394.60 | 395 | |
| Allowance - Dust Control | 586 | | 6,00 | 3,516 | |
| Allowance - Construction fence w/gates | 200 | 17 | | Not Required | 10,177 |
| Allowance - Temporary service to existing/disturbed site utilities | | | • | , tot itoqui. va | , |
| Earth Stripping and Stockpiling | | | C 00 | 2.010 | |
| Strip topsoil & store on site | 335 | • | 6.00 | 2,010 | |
| Cut & Fill at Paving and planting/lawn areas | 283 | • | 8.50 | 2,406 888 | |
| Fill areas of site with excavated material to achieve new grade levels | 142 | • | 6.25 | | |
| Remove surplus excavated material off site | 476 | • | 12.00 45.00 | 5,712 630 | |
| EO for excavating rock | 14 | су | | Not Required | |
| Import fill to achieve proposed grade levels | 10.720 | c | 0.15 | 2,960 | |
| Grade over entire site to achieve final levels | 19,730 4,442 | | 0.13 | 1,111 | |
| Proof Roll/Compact Building Slab-On-Grade area | 4,442 | . 51 | | l w/Buildings | |
| Buildings excavation | 1 | ls | 314.30 | 314 | 16,029 |
| Water removal during excavation works | 1 | 13 | 311.50 | | ,. |
| Excavate and Part Backfill | | | | Not Required | |
| Trenching and backfill for utility removal | | | | Not Required | |
| Trenching and backfill for utility installation | 240 |) If | 11.92 | 2,860 | |
| Trench for - Water Pipe (Underground) - From Auburn Street to Buildings | 240 | | 11.92 | 2,860 | |
| Trench for - Gas Pipe (Underground) - From Auburn Street to Buildings | 240 | | 12.83 | 3,080 | |
| Trench for - Sanitary Pipe (Underground) - From Auburn Street to Buildings | 240 | , 11 | 12.00 | 2,020 | 8,800 |
| Trench for - Surface drainage system (Under paving) | | | | | - |
| G10 Site Preparation | <u>Total</u> | | | 88,571 | 88,571 |
| G20 Site Improvements | | | | | |
| Asphalt Paving | | | | | |
| Bituminous driveway & parking | 4,40 | 5 sf | 4.25 | | |
| Patch roads after utility installations | | l Is | 3,200.00 | 3,200 | |
| Connect new bituminous driveway to extg | 32 | 2 If | 6.00 | | |
| Allowance - Traffic Markings | | I Is | 250.00 | 250 | 22,363 |
| Concrete Paving | | | | | |
| Concrete sidewalk | 683 | | 8.00 | , | |
| Concrete sidewalk at street side | 59: | | 8.00 | - | |
| Concrete patio at back of Congregate House | 79 | | 9.00 | , | |
| Concrete ramp | 27. | | 11.00 | | |
| Stairs & landing | 17 | | | d w/Buildings | |
| Connect new side walk to extg at street side | 1 | 4 lf | 10.00 | 140 | |

236 Auburn Street, Newton, MA Feasibility Study Cost Estimate - Estimate Sitework

| Description Concrete curb | Qty 102 | Unit lf | Rate 17.00 | Amount 1,734 | Total 22,250 |
|--|--------------|------------|-------------------|------------------------------|-----------------|
| | | | | | |
| Site Improvement Stockade wood fence at the perimeter of parking | 279 | lf | 35.00 | 9,765 | |
| EO - Gate | 3 | ea | 500.00 | 1,500 | |
| Exterior Signage | | | | | |
| Directional traffic signs, allow | 1 | ea | 350.00 | 350 | |
| HP parking signs, allow | l | ea | 350.00 | 350 | 11,965 |
| Landscaping | | | | | |
| Allowance - Landscaping (including following items) & Planting | 8,364 | sf | 1.75 | 14,637 | |
| 3-4 inch caliper trees throughout site | • | | | Included | |
| Foundation planting around entry/side porches and ramps | | | | Included | |
| Pruning of existing perimeter mature oak and maple trees | | | | Included | |
| Seeded lawns | | | | Included | 14,637 |
| G20 Site Improvements | <u>Total</u> | | | 71,215 | 71,215 |
| G30 Site Civil/Mechanical Utilities | | | | | |
| Water Service and Fire Protection | | | | | |
| Water Pipe (Underground) - From Auburn Street to | | | 40.00 | 1 200 | |
| Existing House (1861) | 40 | lf 'C | 30.00 | 1,200 | |
| Two Family House (2# Services) | 40 | lf IC | 30.00 | 1,200 | |
| Congregate House | 160 | lf | 30.00 | 4,800 | |
| Allowance - Fire Service | 120 | lf | 75.00 | 9,000 | |
| Fire Service to Hydrant | 120 | ea | 2,250.00 | 2,250 | 18,450 |
| Hydrant | • | - Cu | 2,200.00 | _, | |
| Gas Service | | | | | |
| Gas Pipe (Underground) - From Auburn Street to | 40 | 10 | ar_ | | |
| Existing House (1861) | 40 | | | enching Only enching Only | |
| Two Family House (2# Services) | 40 160 | lf lf | | enching Only | |
| Congregate House | 100 | ļ. | 110 | cheming Only | |
| Sanitary Sewer | | | | | |
| Sanitary Pipe (Underground) - From Auburn Street to | | | | 200 | |
| Existing House (1861) | 40 | | 22.00 | 880 | |
| Two Family House (2# Services) | 40 | | 22.00 | 880 3,520 | |
| Congregate House | 160 1 | | 22.00 4,500.00 | 3,320 4,500 | 9,780 |
| Sewer Manhole | 1 | ea | 4,500.00 | 7,500 | 2,100 |
| Stormwater Management | | | 2.10 | 22.025 | 22.025 |
| Surface drainage system (Under paving) | 6,332 | sf | 3.48 | 22,035 | 22,035 |
| General Items | | | | | |
| Trenching and backfill to utility lines | | | | w/Earthwork | |
| Police detail for utility connections | 20 | hour | 80.00 | 1,600 | 1,600 |
| G30 Site Civil/Mechanical Utilities | <u>Total</u> | | | 51,865 | 51,865 |
| G40 Site Electrical Utilities | | | | | |
| Electrical Service | | | | | |
| Equipment | | | | T. 0 | |
| Utility transformer | | | By Uti | lity Company | |
| Electrical Service (Conduit & trench only) to | 4.0 | . 10 | 40.00 | 1 200 | |
| Existing House (1861) | 40 | | 42.00 42.00 | 1,680 1,680 | |
| Two Family House (2# Services) | 40 | , 11 | 42.00 | 1,000 | |
| | | | | | |

236 Auburn Street, Newton, MA Feasibility Study Cost Estimate - Estimate Sitework

| Description | Qty 160 | Unit lf | Rate 42.00 | Amount 6,720 | Total 10,080 |
|---|-------------------|------------|----------------|-----------------|-----------------|
| Congregate House | 100 | •• | 12.00 | ٠,,-٥ | **** |
| Site Lighting | | | | | 11.660 |
| Allowance - Site pole lights | 5 | ea | 2,933.80 | 14,669 | 14,669 |
| Site Security | | | 1 | Not Required | |
| Site Telecommunication | | | | | |
| Tel/Data/Cable Service (Conduit & trench only) to | 40 | 10 | 20.00 | 1 200 | |
| Existing House (1861) | 40 40 | lf lf | 30.00 30.00 | 1,200 1,200 | |
| Two Family House (2# Services) | 160 | lf | 30.00 | 4,800 | 7,200 |
| Congregate House | 100 | 11. | 30.00 | 4,000 | 7,200 |
| G40 Site Electrical Utilities | <u>Total</u> | | | 31,949 | 31,949 |
| | | | | | |
| G90 Other Site Construction | | | | | |
| No Work in this Element | | | | | |
| G90 Other Site Construction | <u>Total</u> | | | 0 | 0 |

Gross Floor Areas

| Locations | Gross Floor Areas (sf) | Perimeter |
|-------------------------------|------------------------|-----------|
| Existing House | | |
| Basement | 802 | 118 |
| First Floor Renovation | 802 | 118 |
| Second Floor Renovation | 802 | 118 |
| First Floor Addition | 163 | 52 |
| Total Existing House | 2,569 | |
| Congregate House | | |
| Basement | 2,498 | |
| First Floor | 2,498 | 240 |
| Total Congregate House | 4,996 | |
| Two Family House | | |
| Basement | 1,142 | |
| First Floor | 1,142 | 151 |
| Second Floor | 1,142 | 151 |
| Total Two Family House | 3,426 | |
| | ` | |
| Total Project Area | 10,991 | |



COOPERSTOWN environmental

PHASE I ENVIRONMENTAL SITE ASSESSMENT

236 Auburn Street Newton, MA 02466

Prepared for:

Citizens for Affordable Housing in Newton Development Organization, Inc.

(CAN-DO)

79-B Chapel Street

Newton, MA 02458

Prepared by:

Cooperstown Environmental LLC Andover, Massachusetts

April 2017

TABLE OF CONTENTS

| 1.0 | INTRO | DUCTION |
|-----|---------|--|
| | 1.1 | Purpose |
| | 1.2 | Scope of Services |
| | 1.3 | Significant Assumptions |
| | 1.4 | Limitations and Exceptions |
| | 1.5 | Principles |
| | 1.6 | Special Terms and Conditions |
| | 1.7 | Exclusive Use |
| 2.0 | SITE DE | SCRIPTION |
| | 2.1 | Location and Legal Description |
| = | 2.2 | Property and Vicinity Characteristics |
| | 2.3 | Current Property Use |
| | 2.4 | Structures, Roads, & Other Improvements on the Site |
| | 2.5 | Current Use of Adjoining Properties |
| 3.0 | USER-P | ROVIDED INFORMATION |
| | 3.1 | Title Records |
| | 3.2 | Environmental Liens or Activity and Use Limitations |
| | 3.3 | Specialized Knowledge |
| | 3.4 | Commonly Known or Reasonably Ascertainable Information |
| | 3.5 | Valuation Reduction for Environmental Issues |
| | 3.6 | Owner, Property Manager, and Occupant Information |
| | 3.7 | Reason for Performing Phase I |
| | 3.8 | Previous Environmental Reports |
| 4.0 | RECOR | DS REVIEW |
| | 4.1 | Environmental & Physical Setting |
| | | 4.1.1 Site Topography |
| | | 4.1.2 Local Geology and Hydrogeology |
| | 4.2 | Standard Environmental Record Sources |
| | | 4.2.1 Database Results – Subject Property |
| | | 4.2.2 Database Results – Surrounding Properties |
| | | 4.2.3 Orphan Records |
| | | 4.2.4 Other Relevant Database Records |
| | | 4.2.5 Evaluation of Potential of Vapor Intrusion onto Subject Property |

PRIVILEGED AND CONFIDENTIAL

Environmental Site Assessment Report 236 Auburn Street, Newton, MA

April 2017

| | 4.3 | Wetlands | , Floodplains, Areas of Environmental Concern | 10 |
|-----|--------|------------|---|----|
| | 4.4 | Local Rec | ords Sources | 10 |
| | | 4.4.1 | Fire Department | 10 |
| | | 4.4.2 | Health and Conservation Records | 10 |
| | | 4.4.3 | Inspectional Services Records | 11 |
| | | 4.4.4 | Assessing Department | |
| | | 4.4.5 | Department of Public Works | |
| | 4.5 | Historical | Use Information | 11 |
| | | 4.5.1 | Sanborn Maps | |
| | | 4.5.2 | City Directories | |
| | | 4.5.3 | Historical Aerial Photographs | |
| | | 4.5.4 | Chain of Title | |
| | 4.6 | | Environmental Investigations | |
| | 4.7 | Summary | of Site Uses | 12 |
| | 4.8 | Summary | of Surrounding Land Uses | 12 |
| 5.0 | SITE F | RECONNAISS | ANCE | 13 |
| | 5.1 | Methodo | logy and Limiting Conditions | 13 |
| | 5.2 | General C | Observations | 13 |
| | | 5.2.1 | Potable Water | 13 |
| | | 5.2.2 | Wastewater | |
| | | 5.2.3 | Storm Water | 13 |
| | | 5.2.4 | Solid Waste | 13 |
| | | 5.2.5 | Hazardous Materials/Chemicals & Hazardous Waste | 14 |
| | | 5.2.6 | Hydraulic Equipment | 14 |
| | | 5.2.7 | Above Ground Storage Tanks | 14 |
| | | 5.2.8 | Underground Storage Tanks | |
| | | 5.2.9 | Polychlorinated Biphenyls (PCBs) | 14 |
| | | 5.2.10 | Lead-Based Paint | |
| | | 5.2.11 | Waste Oil | |
| | | 5.2.12 | Asbestos Containing Material (ACM) | |
| | | 5.2.13 | Radon | |
| | 5.3 | Interior O | bservations | 15 |
| | | 5.3.1 | Heating/Cooling | |
| | | 5.3.2 | Stains or Corrosion | |
| | | 5.3.3 | Drains and Sumps | |
| | 5.4 | Exterior C | Observations | |
| | | 5.4.1 | Pits, Ponds, Lagoons, Septic Systems | |
| | | 5.4.2 | Stained Soil or Pavement | |
| | | 5.4.3 | Stressed Vegetation | |
| | | 5.4.4 | Solid Waste | |
| | | 5.4.5 | Wells | 16 |

PRIVILEGED AND CONFIDENTIAL

Environmental Site Assessment Report 236 Auburn Street, Newton, MA

April 2017

| 6.0 | INTERVIEWS | | |
|------|--------------|-------------------------------------|----|
| | 6.1 | User Interview | 17 |
| | 6.2 | Owner Representative Interview | 17 |
| | 6.3 | Local Officials Interviews | 17 |
| 7.0 | DISCUSS | SION OF DATA GAPS AND UNCERTAINTIES | 18 |
| 8.0 | CONCLU | ISIONS AND RECOMMENDATIONS | 19 |
| 9.0 | DEVIATIONS20 | | 20 |
| 10.0 | REFERENCES | | 21 |
| 11.0 | SIGNATI | IDE OF ENVIDONMENTAL BROCESSIONAL | 22 |

8.0 CONCLUSIONS AND RECOMMENDATIONS

Cooperstown has performed this ESA in conformance with the scope and limitations of the ASTM International "Standard Practice for Phase I Environmental Site Assessment" (E-1527-13), as outlined in the proposal submitted to CAN-DO, dated April 7, 2017. The purpose of the Phase I ESA was to identify "recognized environmental conditions" (RECs) in connection with the Subject Property. The Phase I ESA included a review of regulatory and historical records, site reconnaissance, and interviews with persons having knowledge of the property.

The site reconnaissance, owner interview, and review of regulatory and historical records show a history of the Subject Property back to approximately 1861. Historical aerial photos, City Directories, and local sources contain a record of the past uses of the Subject Property and surrounding properties. The established timeline of the historical record indicates there are no significant data gaps in meeting the standard for Phase I investigations (E-1527-13).

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of 236 Auburn Street in Newton, Massachusetts (the site or Subject Property). Any exceptions to, or deletions from, this practice are described in Section 9.0 of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Subject Property.

There was one de-minimus condition associated with household solid waste surrounding the dumpster at the property. Additionally there is a history of lead based paint detected in the interior of the property building. Considering this history, there is the possibility that lead based paint was used on the exterior of the property building which has the potential to leach into site soils. This condition is exempt from reporting to Mass DEP and therefore is not a REC. However, it does affect re-use options for site soil if off-site disposal of soils was required as part of re-development in order to comply with similar soils provisions.