



Bryan Leblanc <bleblanc@natickma.org>

ADDENDUM 1 - IFB: DOG PARK CONSTRUCTION/PLEASE ACKNOWLEDGE RECEIPT!!!

Bryan Leblanc <bleblanc@natickma.org>

Fri, May 3, 2019 at 9:01 AM

To: Kim Jones <primevendor123@gmail.com>, bshalek@lwharding.com, John Paquette <john@paqcon.com>, United Fence & Construction Corp <info@unitedfenceri.com>, Michael Johnson <michael.johnson@const-dynamics.com>, addenda <addenda@projectdog.com>, Sheran Elliott <SElliott@jjphelan.com>, Matt Pappa <matt@cassidylandscaping.com>, Rachael Willis <Rachael.Willis@constructconnect.com>, Joe Cataldo <jcataldo@jmcataldo.com>, Andrew Armington <aarmington@valiant-america.com>, "Reale Associates, Inc" <realeassoc@aol.com>, Matthew Maiato <mmaiato@greenacreslandscape.net>, Christine McKenna <cmckenna@mjsconstructioninc.com>, robin@nerecgroup.com, Alan Chan <alan@pauljroganco.com>, Roy Dunham <Rdunham@onyxcorporation.net>, Eujane Lumacang <Eujane.Lumacang@construction.com>

Good morning!

Please find attached addendum no. 1. **Please reply to confirm receipt.** You will also need to acknowledge this ADDENDUM No. 1 **in your bid form.** FAILURE TO ACKNOWLEDGE ADDENDA IN YOUR BID FORM MAY CAUSE DISQUALIFICATION OF YOUR BID!


Thank you for your attention.

Very truly yours,

Bryan Le Blanc

--

Bryan R. Le Blanc
Procurement Officer
Town of Natick
75 West Street
Natick, MA 01760
bleblanc@natickma.org
(508)-647-6438

 **Final Addendum 1 Scanned 050319.pdf**
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Town of Natick, Massachusetts
IFB: DOG PARK CONSTRUCTION

ADDENDUM NO. 1

TO: Prospective Bidders

PROJECT: IFB: Dog Park Construction

FROM: Bryan R. Le Blanc
Procurement Officer
Natick Public Works
75 West Street
Natick, MA 01760
(508)- 647-6438

DATE: May 3, 2019

Please also acknowledge via return correspondence upon receipt.

This addendum shall be acknowledged as indicated on the bid form, which is included with the IFB, and which shall be submitted to the Town. Failure to acknowledge Addendum No. 1 in the bid form may result in rejection of your firm's bid.

This addendum consists of four (4) pages (including this one).

The Town responds to questions raised during the procurement process as follows:

1. Will the Town pay for police details when they are needed, or do contractors need to carry this in their bid?

It is anticipated that no details will be needed. Hence, bidders should not carry the item in their bids.

2. The plans call out a 10x10 storage shed. Is this part of the bid? If it is part of the bid please provide specs and/or details for it.

We are actually calling for the setting of a 10' x 10' slab only for the storage shed. Detail is in the attached drawing. No shed is currently part of the Bid.

3. The plans call out "natural dog equipment". Is this part of the bid? If it is please specify what you are looking for. There are different symbols on the plan but nothing is labeled, and there aren't any specs or details for this.

We would like to use as much material that is available on site (i.e. boulders, logs from some of the trees that may need to be cleared, etc.) as possible.

The Successful Bidder shall:

Leave four (4) to five (5) stumps (at least two (2) in each play area) eighteen inches (18") to twenty-four inches (24"), varying diameter to provide as natural dog play feature.

Place approximately three foot (3') boulders embedded into the ground. Bury the boulders 1/3 to 1/2 the size of the boulder (detail attached).

Leave approximately one (1) to two (2) logs, five feet (5') to six feet (6') long onsite in each play area. Embed them a couple inches (approximately three inches (3")) so they do not roll.

4. Are there any specifications for the woodchips for this project?

We are requiring natural (untreated) natural woodchips. Often, they are called playground chips.

It was recommended: Fresh, Clean, and IPEMA Playground Surfacing Grade Wood Chip. Basically IPEMA Certified Playground Safety Surfacing.

5. Are there any specifications for the natural play products? Or quantities of items?

See answer to question 3, above.

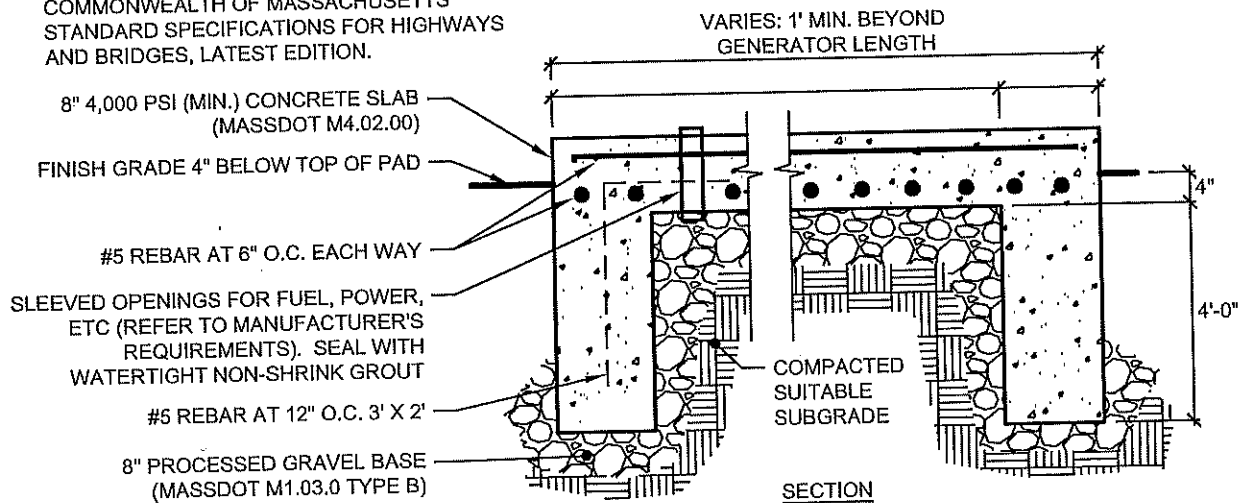
6. Has the area for the dog park been cleared of trees? Looking at google maps it looks densely vegetated. If it hasn't are we responsible for tree clearing?

The Successful Bidder is responsible for clearing. Per the plans, we want to keep a few trees, though. But, yes, there are a lot of dead or dying trees and underbrush that need to be cleared.

No other addenda have been issued to date. All other terms of the bid remain unaltered.

NOTE

1. SHALL BE IN ACCORDANCE WITH THE COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.

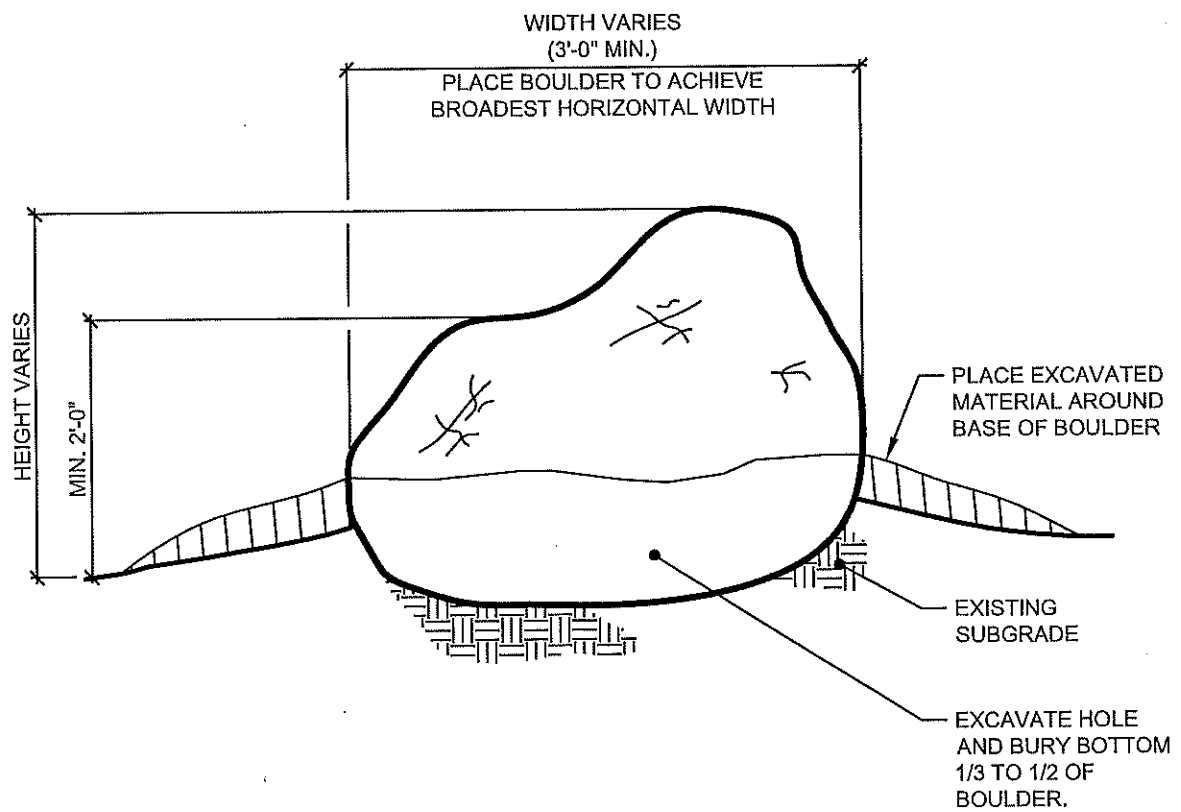


SHED CONCRETE PAD

N.T.S.

NOTES:

1. SHALL BE IN ACCORDANCE WITH THE COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
2. BOULDERS TO BE PLACED UNDER THE SUPERVISION OF LANDSCAPE ARCHITECT.



PLACED LANDSCAPE BOULDER

32 32 53-01 - LANDSCAPE BOULDER PLACEMENT


N.T.S.

**Town of Natick
Natick, Massachusetts**

INVITATION FOR BIDS

FOR

CONSTRUCTION SERVICES RELATED TO THE INSTALLATION OF A DOG PARK IN THE TOWN OF NATICK


~~April~~ 24, 2019, 11:00 A.M. LOCAL TIME
Late Bids Will Be Rejected

DELIVER COMPLETED BIDS TO:

Town of Natick
Procurement Officer
c/o Natick Public Works Building
75 West Street
Natick, MA 01760
Phone: 508-647-6438

**TOWN OF NATICK
NATICK, MASSACHUSETTS 01760**

NOTICE TO BIDDERS

The Town of Natick, Natick Town Hall, 13 East Central Street, Natick, MA 01760 ("the Town"), acting through the Natick Board of Selectmen, invites the submission of sealed bids for construction services related to the installation of a dog park in the Town of Natick. The Invitation for Bids ("IFB") may be obtained from the Procurement Office, c/o Natick Public Works Building, 75 West Street, Natick, MA 01760, between 8:00 A.M. and 4:00 P.M. local time, Monday through Thursday, and between 8:00 A.M. and 12:00 P.M. (noon) local time, Friday, by emailing bleblanc@natickma.org beginning on April 24, 2019. Sealed Bids will be received until **11:00 A.M. local time, May 9, 2019**, at the Procurement Office, Natick Public Works Building, 75 West Street, Natick, MA 01760, at which time and place all bids will be publicly opened and read. All Bids shall comply with the IFB issued by the Town of Natick, including, without limitation, Section 1, Instructions to Bidders, and Bid Submission Requirements. The Town reserves the right to waive any informality in or to reject any, any part of, or all Bids in the best interest of the Town. Any Bid submitted will be binding for thirty (30) days subsequent to the time of bid opening. Award shall be subject to available appropriation and award by the Natick Board of Selectmen.

Section 1. Instructions to Bidders and Bid Submission Requirements

The Town of Natick, Natick Town Hall, 13 East Central Street, Natick, MA 01760 ("the Town"), acting through the Natick Board of Selectmen, invites the submission of sealed bids for construction services related to the installation of a dog park in the Town of Natick.

Copies of this IFB may be obtained from the Procurement Office, c/o Natick Public Works Building, 75 West Street, Natick, MA 01760, by emailing bleblanc@natickma.org between 8:00 A.M. and 4:00 P.M. local time, Monday through Thursday, and between 8:00 A.M. and 12:00 P.M. (noon) local time, Friday, beginning on April 24, 2019,

No Pre-Bid Conference will be held.

Questions regarding this IFB shall be submitted in writing and shall be delivered to the Procurement Office by the close of business (4:00 P.M. local time, Monday through Thursday, and 12:00 P.M. (noon), Friday) on May 2, 2019. Questions presented after this time shall not be considered. No question shall be considered which is not submitted in writing. Any questions requiring consideration shall be answered in an addendum delivered to all registered Bidders.

Sealed Bids marked "Town of Natick: Sealed Bid for Construction Services Related to the Installation of a Dog Park in the Town of Natick" shall be received by 11:00 A.M. local time, May 9, 2019, at this address:

Procurement Office
c/o Natick Public Works Building
75 West Street
Natick, MA 01760.

Each Bidder's name, address and contact phone number shall be clearly visible from the outside of each sealed envelope. The clock in the Procurement Office shall be considered official. No late Bids shall be accepted. No faxed Bids shall be accepted. Conditional Bids will not be accepted.

Each Bid shall be submitted in accordance with the Bid Submission Requirements in order to be considered for award. Any Bid submitted shall be binding for thirty (30) days subsequent to the time of the opening of Bids. Each Bidder's name, address and contact phone number shall be clearly visible from the outside of each sealed envelope.

Each Bid shall be accompanied by a Bid Deposit in the form of a Bid bond, or cash, or a certified check on, or a treasurer's or cashier's check issued by, a responsible bank or trust company, payable to the Town of Natick, MA. The amount of such Bid Deposit shall be five (5%) percent of the value of the Bid.

The Bid Deposits of the three (3) lowest responsible and eligible Bidders will be returned upon the execution and delivery of a Contract or, if no award is made, upon the expiration of the time prescribed herein for making an award; except that, if any Bidder fails to perform his/her/its

agreement to execute a Contract and furnish a Performance Bond and a Labor and Materials Payment Bond if required, his/her/its Bid Deposit shall become and be the property of the Town, as liquidated damages; provided that the amount of the Bid Deposit which becomes the property of the Town will not, in any event, exceed the difference between his/her/its Bid price and the Bid price of the next lowest responsible and eligible Bidder; and provided further that, in case of death, disability, bona fide clerical or mechanical error of a substantial nature, or other similar unforeseen circumstances affecting a Bidder, his/her/its Bid Deposit will be returned to him/her/it. The Bid Deposits of Bidders other than the three (3) lowest responsible and eligible Bidders will be returned following award of the Contract by the Town.

The Town of Natick **will not** reimburse Bidders for any costs incurred in preparing Bids in response to this IFB.

Submission of a Bid shall be conclusive evidence that the Bidder has examined this IFB and is familiar with all the conditions of the Contract. Upon finding any omissions or discrepancy in this IFB, each Bidder shall notify the Town immediately so that any necessary addenda may be issued. Failure of a Bidder to investigate completely this IFB and/or to be thoroughly familiar with this IFB shall in no way relieve any such Bidder from any obligation with respect to the Bid.

By submission of a Bid, the Bidder agrees that if its Bid is accepted, then it shall enter into a Contract with the Town of Natick which incorporates all of the requirements of this IFB. By submission of a Bid, the Bidder further indicates acceptance of all terms and conditions of this IFB.

Changes, modifications or withdrawal of Bids shall be submitted in writing to the Procurement Officer prior to the deadline and shall be contained in a sealed envelope clearly marked, as appropriate, "CORRECTION, MODIFICATION OR WITHDRAWAL OF SEALED BID FOR CONSTRUCTION SERVICES RELATED TO THE INSTALLATION OF A DOG PARK IN THE TOWN OF NATICK". No corrections, modifications, or withdrawal of Bids shall be permitted after Bids have been opened.

M.G.L. c. 149, §44A and c. 30, §39M, which is incorporated herein by reference, shall govern all procedures.

Prevailing wage rates as determined by the Commissioner of the Massachusetts Department of Labor and Workforce Development under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27G, as amended, apply to this work. It is the responsibility of the Bidder, before Bid submission, to request, if necessary, any additional information on Minimum Wage Rates for those tradespeople who may be employed for the proposed work under any such Contract awarded.

For further information, please refer to the succeeding sections, with which each Bidder shall comply in submitting a Bid.

Section 2. Pre-Bid Conference/Questions

No Pre-Bid Conference will be held.

Questions, if any, concerning this IFB or its conditions shall be addressed to:

Procurement Officer
c/o Natick Public Works Building
75 West Street
Natick, MA 02186.

Questions regarding this IFB shall be submitted in writing and shall be delivered to the Procurement Office by the close of business (4:00 P.M. local time, Monday through Thursday, and 12:00 P.M. (noon), Friday) on May 2, 2019. Questions may also be submitted to the procurement officer at bleblanc@natickma.org by such time. Questions presented after this time shall not be considered. No question shall be considered which is not submitted in writing. Any questions requiring consideration shall be answered in an addendum delivered to all registered Bidders.

Section 3. Background & Specifications

A. Description of Work

The Work to be performed under any Contract with the Town ("the Work") shall consist of all labor and materials necessary for the installation of a new dog park, which shall be located at 111 West Central Street, Natick, MA 01760.

Full specifications and drawings have been prepared and have been incorporated herein by reference.

All work to be performed by the Successful Bidder under any Contract with the Town shall be at prevailing wage rates.

The Successful Bidder shall use extreme caution during the entire construction period.

The existing condition information has been compiled from a variety of sources. The existing conditions are provided for general information only. Actual conditions may vary. Successful Bidder is required to verify existing conditions, and dimensions prior to submitting its bid. No additional compensation or time extension will be made for dimensional errors or discoverable inaccuracies related to existing conditions in the contract documents.

B. Successful Bidder's Personnel

The Successful Bidder shall be responsible for any training of his/her/its personnel. The Successful Bidder's personnel shall be adequately trained by the Successful Bidder, shall be experienced in the provision of services specified in this IFB, and shall be of good moral character. All of the Successful Bidder's employees assigned to the sites shall pass pre-employment criminal background screening.

The Successful Bidder shall provide the Town with the following information:

1. Name, business address, telephone, and cell phone numbers of the president and foreman.
2. Name, address, and telephone number of all employees assigned to the sites. The Successful Bidder will update this list whenever there is a change in personnel.

The Successful Bidder shall provide services as an independent contractor with the Town of Natick and the Successful Bidder and his/her/its employees shall not be entitled to receive any benefits of employment with the Town of Natick, including without limitation salary, overtime, vacation pay, holiday pay, health insurance, life insurance, pension or deferred compensation.

Section 4. Bid Submission Requirements

Each Bidder shall submit the following with his/her/its Bid:

1. A fully executed Bid Form (Appendix 1) (which shall include certification of the following:
 - A. Bidder is an established business with a minimum of five (5) years of experience in providing services related to the performance of services outlined in this IFB. (Bidder shall attach to the Bid Form a short statement of the status of the business, the year of incorporation/commencement, a list of any name changes, and a list of any lawsuits pending against Bidder.)
 - B. Bidder holds all applicable State and Federal permits, licenses and approvals. (Bidder shall attach to the Bid Form copies of all applicable State and Federal permits, licenses, and approvals.)
 - C. Bidder provides a qualified (Town approved) Foreman, who shall be present at the work site at all times.

- D. Bidder provides supervision of all workers performing under all Contracts held and pledges to provide such supervision under any Contract with the Town.
- E. Bidder holds all applicable documentation and Insurance in accordance with this IFB. (Bidder shall attach to the Bid Form copies of relevant insurance certificates hereto. Nothing in this provision, however, shall eliminate the requirement that the Bidder, if chosen as the Successful Bidder, shall submit to the Town an endorsement or a rider in compliance with Section 8 of the Contract.)
- F. Bidder shall attach to the Bid Form contact information for all clients over the last five (5) years as well as all current Contracts (contact person, address and telephone number). Bidder shall also provide a list of at least six (6) successfully completed jobs in such time, giving the name and address of these projects.
- G. Bidder has not defaulted on any Contract within the last five (5) years.
- H. Bidder maintains a permanent place of business. (Bidder shall attach to the Bid Form the address of his/her/its business.)
- I. Bidder has adequate personnel and equipment to perform the work expeditiously. (Bidder shall also attach to the Bid Form a statement of experience of its personnel and the proposed staffing plan it shall offer in reference to the work for which Bids are sought. Bidder shall attach to the Bid Form a description of its equipment and shall explain how such equipment satisfies the requirements stated herein.)
- J. Bidder has suitable financial status to meet obligations incident to the work. (Bidder shall attach to the Bid Form a financial statement that shows the Bidder's present financial status.
- K. Bidder is registered with the Secretary of the Commonwealth of Massachusetts to do business in Massachusetts. (Bidder shall attach to the Bid Form a copy of a Letter of Good Standing from the Secretary of the Commonwealth's Office.)
- L. Bidder has not failed to perform satisfactorily on Contracts of a similar nature.
- M. Bidder possesses the skill, ability and integrity necessary for the faithful performance of the work.

- N. Bidder certifies that he/she/it is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work.
 - O. Bidder certifies that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least ten (10) hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.
 - P. Bidder certifies that its materials meet the specifications. (A manufacturer's certificate, certifying conformance to the above material specifications, shall be furnished to the Town by the Successful Bidder.)
- 2. A fully executed Certificate of Non-Collusion. (Appendix 2)
 - 3. A fully executed Certificate of Tax Compliance. (M.G.L. c.62C, §49A) (Appendix 3)
 - 4. A fully executed Conflict of Interest Certification. (M.G.L. c.268A) (Appendix 4)
 - 5. A fully executed Certificate of Corporate Bidder, if applicable. (Appendix 5)
 - 6. A fully executed Certificate of Compliance with M.G.L. c.151B. (Appendix 6)
 - 7. A fully executed Certificate of Compliance with EEO/AA/SDO provisions. (Appendix 7)
 - 8. A full executed Certificate of Non-Debarment. (Appendix 8)
 - 9. A Bid Deposit in the form of a Bid bond, or cash, or a certified check on, or a treasurer's or cashier's check issued by, a responsible bank or trust company, payable to the Awarding Authority. The amount of such Bid Deposit shall be in the amount of five (5%) percent of the value of the Bid.
 - 10. A certificate of insurability from an insurance company that is licensed to do business in the Commonwealth of Massachusetts indicating that all the provisions of the specifications can be met.
 - 11. A letter of intent from a surety company that is licensed to do business in the Commonwealth of Massachusetts stating that the Bidder shall be able to obtain a Performance Bond in the amount of one hundred (100%) percent of the Contract Price.

12. A letter of intent from a surety company that is licensed to do business in the Commonwealth of Massachusetts stating that the Bidder shall be able to obtain a Labor and Materials Payment Bond in the amount of one hundred (100%) percent of the Contract Price.

Section 5. Bid Submission

Sealed Bids marked "Town of Natick: Sealed Bid for Construction Services Related to the Installation of a Dog Park in the Town of Natick" shall be received by 11:00 A.M. local time, May 9, 2019, at this address:

Procurement Office
c/o Natick Public Works Building
75 West Street
Natick, MA 01760.

Each Bidder's name, address and contact phone number shall be clearly visible from the outside of each sealed envelope. The clock in the Procurement Office shall be considered official. No late Bids shall be accepted. No faxed Bids shall be accepted. Conditional Bids will not be accepted.

Each Bid shall be submitted in accordance with the Bid Submission Requirements in order to be considered for award. Any Bid submitted shall be binding for thirty (30) days subsequent to the time of the opening of Bids.

As soon as is reasonably possible after the deadline for Bid submission, Bids will be opened in accordance with applicable law. **Bids received after that date and time will be rejected.**

Section 6. Selection Process and Award

Bids submitted to the Town prior to the deadline will be reviewed by the Procurement Officer to determine compliance with the foregoing Bid Submission Requirements and this IFB.

The Town shall award, within thirty (30) days of the opening of sealed Bids, one (1) Contract, if at all, to the lowest responsible and eligible Bidder, based upon the lowest total cost to provide the required services in the Main Bid Work, who complies with the Bid Submission Requirements in Section 4 above. The award of any Contract pursuant to this IFB shall be subject to appropriation by Natick Town Meeting.

The term "lowest responsible and eligible Bidder" shall mean the Bidder: (1) whose Bid is the lowest of those Bidders possessing the skill, ability and integrity necessary for the faithful performance of the work; (2) who shall certify that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (3) who shall certify that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and

Health Administration that is at least ten (10) hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; (4) who, where the provisions of Section 8B of Chapter 29 (of the Massachusetts General Laws (M.G.L.)) apply, shall have been determined to be qualified thereunder; and (5) who obtains within ten (10) days of the notification of Contract award the security by bond required under Section 29 of Chapter 149 (of the Massachusetts General Laws (M.G.L.)); provided that for the purposes of this section the term "security by bond" shall mean the bond of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the Awarding Authority; provided further, that if there is more than one (1) surety company, the surety companies shall be jointly and severally liable.

Nothing in this IFB will compel the Town to award a Contract. The Town may cancel this IFB, may waive, to the extent allowed by law, any informalities, and may reject any and all Bids, if the Town, in its sole discretion, determines said action to be in the best interest of the Town of Natick. The Town may reject as non-responsive any Bid that fails to satisfy any of the Bid Submission Requirements.)

No person or firm debarred, suspended, or otherwise prohibited from practice by any federal, state, or local agency shall be awarded a Contract.

The Successful Bidder shall provide certification of insurance coverage and shall be required to indemnify and hold the Town harmless (see below for more information).

Within ten (10) business days after notification of award of a Contract by the Town, the Successful Bidder shall furnish to the Town a Performance Bond in the amount of one hundred (100%) percent of the Contract price, with a surety company which is acceptable to the Town.

Within ten (10) business days after notification of award of Contract by the Town, the Successful Bidder shall furnish to the Town a Labor and Materials Payment Bond in the amount of one hundred (100%) percent of the Contract price, with a surety company which is acceptable to the Town.

The Successful Bidder shall, within ten (10) days after presentation thereof by the Town, execute a Contract in accordance with the terms of this IFB, in the form of the attached Contract.

The Successful Bidder who enters into a Contract with the Town shall be responsible for obtaining, at his/her/its own expense, all appropriate federal, state and local permits, licenses and approvals.

The Town may terminate any such Contract upon written notice to the Contractor if a source of money to fund the Contract is lost during the Contract term. In the alternative, the parties may agree in writing to amend any such Contract to provide for a Contract price which represents a reduced appropriation for the Contract term.

Section 7. Compliance with Laws

The Successful Bidder shall comply with all provisions of Federal, Massachusetts and Town of Natick law applicable to his work including, without limitation, statutes, by-laws, rules, regulations, orders and directives, as amended, and including, without limitation, the Williams-Steiger Occupational Safety and Health Act of 1970, as amended, and related regulations, as amended, in effect throughout the term of this Contract and any extension or renewal thereof. Without limitation, the Successful Bidder shall comply, to the extent applicable, with the provisions of Chapter 149, Section 26 to 27D of the Massachusetts General Laws, as amended. Any Contract shall be considered to include in their entirety all terms respecting workers' compensation insurance and other terms required to be included in it by Chapter 152 of the Massachusetts General Laws, as amended, and any other laws, as though such terms were set forth in their entirety herein.

Section 8. Insurance

The Successful Bidder shall keep in force throughout the term of the Contract and any extension or renewal thereof the amount of insurance described in the Contract which is a part of this IFB and is incorporated herein by reference. Without limitation of other requirements of this IFB, no Contract shall be entered into by the parties unless the Successful Bidder complies with all applicable insurance requirements, including, without limitation, the required language mandating that the Town of Natick shall be named as an additional insured on the required policies of commercial general liability insurance, automobile liability insurance, and excess liability insurance, umbrella form.

Section 9. Indemnification

The Successful Bidder shall assume the indemnification responsibilities described in the Contract which is a part of this IFB and is incorporated herein by reference.

Section 10. Performance Bond Requirements

Within ten (10) calendar days after notification of award of a Contract by the Town, the Successful Bidder shall furnish to the Town a Performance Bond, in the amount of one hundred percent (100%) of the Contract price, with a surety company which is acceptable to the Town and which is licensed by the Massachusetts Division of Insurance.

Section 11. Labor and Materials Payment Bond Requirements

Within ten (10) calendar days after notification of award of a Contract by the Town, the Successful Bidder shall furnish to the Town a Labor and Materials Payment Bond, in the amount of one hundred percent (100%) of the Contract price, with a surety company which is acceptable to the Town and which is licensed by the Massachusetts Division of Insurance.

Section 12. Use of Alcohol and Controlled and/or Mood Altering Substances Prohibited

The use of alcoholic beverages, narcotics, and controlled and/or mood altering substances, except for current valid, legal prescriptions, by any officer, employee, agent, or representative of the Successful Bidder is prohibited on Town of Natick property which is the

subject matter of this IFB and during all hours of work under any Contract with the Town. If any officer, employee, agent, or representative of the Successful Bidder violates the foregoing provision, the Town of Natick shall have the right to order that such officer, employee, agent, or representative of the Successful Bidder shall not be permitted to return to work under any Contract with the Town. Under such circumstances, the Successful Bidder shall promptly remove the subject officer, employee, agent, or representative from the job site and shall not permit the subject officer, employee, agent, or representative to perform further work in conjunction with any Contract with the Town.

Section 13. No Smoking

Pursuant to Massachusetts General Laws (M.G.L.) c. 270, §22, the Commonwealth of Massachusetts Smokefree Workplace Law, the Successful Bidder, its officers, employees, agents, and representatives shall refrain from smoking and from using tobacco products in any public building in the Town of Natick.

Section 14. Criminal Background Screening

For each employee of the Successful Bidder who is performing services under any Contract, the Successful Bidder shall, subject to its confidentiality and privacy obligations owing to its employees and third parties, provide a written confirmation to the Town that such employee passed the Successful Bidder's pre-employment criminal background screen. In the event that any employee refuses to permit the Successful Bidder to provide such information to the Town, the Successful Bidder shall not assign such employee to perform services for the Town, and such employee shall not be authorized to perform services for the Town. The Town shall be permitted to keep such information in its files.

Section 15. Appendices

1. Bid Form
2. Certificate of Non-Collusion
3. Certificate of Tax Compliance (M.G.L. c.62C, §49A)
4. Conflict of Interest Certification (M.G.L. c.268A)
5. Certificate of Corporate Bidder
6. Certificate of Compliance with M.G.L. c.151B
7. Certificate of Compliance with EEO/AA/SDO provisions
8. Certificate of Non-Debarment
9. Prevailing Wage Rates

10. Form of Contract

APPENDIX 1
TOWN OF NATICK
BID FORM
(5 pages)

The undersigned hereby submits a sealed bid for construction services related to the installation of a dog park in the Town of Natick.

Printed Name of Bidder: _____

Address: _____

The Bidder hereby acknowledges receipt of the following addenda:

_____.

(LIST OUT EACH ONE, i.e., 1, 2, 3, 4, etc. and NOT 1-4!)

The Bidder hereby pledges to deliver the complete scope of services required for the Main Bid Work, for the price shown below:

Total Price in Words: _____

Total Price in Numbers: _____

Bidder certifies as follows:

- A. Bidder is an established business with a minimum of five (5) years of experience in providing services related to the performance of services

outlined in this IFB. (Bidder shall attach to the Bid Form a short statement of the status of the business, the year of incorporation/commencement, a list of any name changes, and a list of any lawsuits pending against Bidder.)

- B. Bidder holds all applicable State and Federal permits, licenses and approvals. (Bidder shall attach to the Bid Form copies of all applicable State and Federal permits, licenses, and approvals.)
- C. Bidder provides a qualified (Town approved) Foreman, who shall be present at the work site at all times.
- D. Bidder provides supervision of all workers performing under all Contracts held and pledges to provide such supervision under any Contract with the Town.
- E. Bidder holds all applicable documentation and Insurance in accordance with this IFB. (Bidder shall attach to the Bid Form copies of relevant insurance certificates hereto. Nothing in this provision, however, shall eliminate the requirement that the Bidder, if chosen as the Successful Bidder, shall submit to the Town an endorsement or a rider in compliance with Section 8 of the Contract.)
- F. Bidder shall attach to the Bid Form contact information for all clients over the last five (5) years as well as all current Contracts (contact person, address and telephone number). Bidder shall also provide a list of at least six (6) successfully completed jobs in such time, giving the name and address of these projects.
- G. Bidder has not defaulted on any Contract within the last five (5) years.
- H. Bidder maintains a permanent place of business. (Bidder shall attach to the Bid Form the address of his/her/its business.)
- I. Bidder has adequate personnel and equipment to perform the work expeditiously. (Bidder shall also attach to the Bid Form a statement of experience of its personnel and the proposed staffing plan it shall offer in reference to the work for which Bids are sought. Bidder shall attach to the Bid Form a description of its equipment and shall explain how such equipment satisfies the requirements stated herein.)
- J. Bidder has suitable financial status to meet obligations incident to the work. (Bidder shall attach to the Bid Form a financial statement that shows the Bidder's present financial status.)

- K. Bidder is registered with the Secretary of the Commonwealth of Massachusetts to do business in Massachusetts. (Bidder shall attach to the Bid Form a copy of a Letter of Good Standing from the Secretary of the Commonwealth's Office.)
- L. Bidder has not failed to perform satisfactorily on Contracts of a similar nature.
- M. Bidder possesses the skill, ability and integrity necessary for the faithful performance of the work.
- N. Bidder certifies that he/she/it is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work.
- O. Bidder certifies that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least ten (10) hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.
- P. Bidder certifies that its materials meet the specifications. (A manufacturer's certificate, certifying conformance to the above material specifications, shall be furnished to the Town by the Successful Bidder.)

The Bidder understands that the Town shall award, within thirty (30) days of the opening of sealed Bids, one (1) Contract, if at all, to the lowest responsible and eligible Bidder, based upon the lowest total cost to provide the required services in the Main Bid Work, who complies with the Bid Submission Requirements in Section 4 above. The award of any Contract pursuant to this IFB shall be subject to appropriation by Natick Town Meeting.

The Bidder agrees that, if he/she/it is the Successful Bidder, he/she/it will within ten (10) days after presentation thereof by the Awarding Authority, execute a Contract in accordance with the terms of this Bid and furnish a Performance Bond and a Labor and Materials Payment Bond, each with a surety company qualified to do business under the laws of the Commonwealth of Massachusetts and satisfactory to the Awarding Authority in the amount of one hundred percent (100%) of the Contract price, the premiums for which are to be paid by the Successful Bidder and are included in the Contract price; provided, however, that if there is more than one (1) surety company, the surety companies shall be jointly and severally liable.

The undersigned certifies under the penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of

perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth of Massachusetts under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

The Bidder agrees that all Bid specifications and Contract specifications are hereto made part of any Contract executed with the Town and are binding on the Successful Bidder.

Authorized Signature

Printed Name

Printed Title

Date

If a Corporation:
Full Legal Name

Officers of Corporation and Addresses

State of Incorporation

Principal Place of Business

Telephone Number. _____

Qualified in Massachusetts Yes _____ No _____

Principal Place of Business in Massachusetts

Telephone Number _____

Full Legal Name of Surety Company

Principal Place of Business of Surety Company

Telephone Number _____

Admitted in Massachusetts Yes _____ No _____

Place of Business in Massachusetts

Telephone Number _____

Appendix 2
CERTIFICATE OF NON-COLLUSION

The undersigned certifies, under penalties of perjury, that this Bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity, or group of individuals.

Name of Bidder

Address of Bidder

Telephone Number

By: _____
(Signature)

Printed Name

Printed Title

Date

Appendix 3
CERTIFICATE OF TAX COMPLIANCE

Pursuant to Massachusetts General Laws (M.G.L.) c.62C, §49A, I certify under the penalties of perjury that the Bidder named below has complied with all laws of the Commonwealth of Massachusetts pertaining to the payment of taxes, to the reporting of employees and contractors, and to the withholding and remitting of child support.

Name of Bidder

Address of Bidder

Telephone Number

By: _____
(Signature)

Printed Name

Printed Title

Date

Appendix 4
CONFLICT OF INTEREST CERTIFICATION

The Bidder hereby certifies that:

1. The Bidder has not given, offered, or agreed to give any gift, contribution, or offer of employment as an inducement for, or in connection with, the award of a Contract pursuant to this Invitation for Bids.
2. No consultant to, or subcontractor for, the Bidder has given, offered, or agreed to give any gift, contribution, or offer of employment to the Bidder, or to any other person, corporation, or entity as an inducement for, or in connection with, the award to the consultant or subcontractor of a Contract by the Bidder.
3. No person, corporation, or other entity, other than a bona fide full time employee of the Bidder has been retained or hired to solicit for or in any way assist the Bidder in obtaining the Contract (pursuant to this IFB) upon an agreement or understanding that such person, corporation or entity be paid a fee or other compensation contingent upon the award of a Contract to the Bidder.
4. The Bidder understands that the Massachusetts Conflict of Interest Law, Chapter 268A of the Massachusetts General Laws, applies to the Bidder with respect to the transaction outlined in the IFB.
5. The Bidder understands that the Bidder, his/her/its officers, employees, agents, subcontractors, and affiliated entities, shall not participate in any activity which constitutes a violation of the Massachusetts Conflict of Interest Law or which creates an appearance of a violation of the Massachusetts Conflict of Interest Law.

Name of Bidder

Address of Bidder

Telephone Number

By: _____
(Signature)

Printed Name

Printed Title

Date

Appendix 5
CERTIFICATE OF CORPORATE BIDDER

I, _____, certify that I am the _____ of the Corporation named as Bidder in the attached Bid Form; that _____, who signed said Bid Form on behalf of the Bidder was then _____ of said Corporation; that I know his/her signature hereto is genuine and that said Bid Form was duly signed, sealed and executed for and on behalf of its governing body.

(Corporate Seal)

Name of Bidder

Address of Bidder

Telephone Number

By: _____
(Signature)

Printed Name

Printed Title

Date

This Certificate shall be completed where Bidder is a Corporation and shall be so completed by its Clerk. In the event that the Clerk is the person signing the Bidder on behalf of the Corporation, this Certificate shall be completed by another officer of the Corporation.

Appendix 6
CERTIFICATE OF COMPLIANCE WITH M.G.L. c.151B

The Bidder hereby certifies that it is in compliance with and shall remain in compliance with Massachusetts General Laws (M.G.L.) Chapter 151B and shall not discriminate on any prohibited basis outlined therein.

Name of Bidder

Address of Bidder

Telephone Number

By: _____
(Signature)

Printed Name

Printed Title

Date

Appendix 7

CERTIFICATE OF COMPLIANCE WITH APPLICABLE EEO/AA/SDO PROVISIONS

The Bidder hereby certifies that it shall comply with all applicable minority workforce percentage ratio and specific affirmative action steps contained in any EEO/AA provisions of this Contract, including, without limitation any imposed by the Massachusetts Supplier Diversity Office (SDO).

Name of Bidder

Address of Bidder

Telephone Number

By: _____
(Signature)

Printed Name

Printed Title

Date

Appendix 8
CERTIFICATE OF NON-DEBARMENT

The Bidder hereby certifies that it is presently not debarred, suspended, or otherwise prohibited from practice by any federal, state, or local agency, and that, should any proceeding arise in which it is debarred, suspended, or otherwise prohibited from practice by any federal, state, or local agency, the Bidder shall inform the Town of Natick within one (1) business day of such debarment, suspension, or prohibition from practice.

Name of Bidder

Address of Bidder

Telephone Number

By: _____
(Signature)

Printed Name

Printed Title

Date

**Appendix 9
PREVAILING WAGE RATES**

See attached document.



CHARLES D. BAKER
Governor

KARYNE E. POLITO
Lt. Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Prevailing Wage Rates

As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

ROSALIN ACOSTA
Secretary

WILLIAM D MCKINNEY
Director

Awarding Authority: Town of Natick, Massachusetts

Contract Number:

City/Town: NATICK

Description of Work: Invitation for Bids for Construction Services Related to the Installation of a New Dog Park in the Town of Natick

Job Location: 111 West Central Street, Natick, MA 01760

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards ("DLS") if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.**
- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$33.25	\$11.91	\$12.70	\$0.00	\$57.86
	06/01/2019	\$34.25	\$11.91	\$12.70	\$0.00	\$58.86
	08/01/2019	\$34.25	\$12.41	\$12.70	\$0.00	\$59.36
	12/01/2019	\$34.25	\$12.41	\$13.72	\$0.00	\$60.38
	06/01/2020	\$35.15	\$12.41	\$13.72	\$0.00	\$61.28
	08/01/2020	\$35.15	\$12.91	\$13.72	\$0.00	\$61.78
	12/01/2020	\$35.15	\$12.91	\$14.82	\$0.00	\$62.88
	06/01/2021	\$35.95	\$12.91	\$14.82	\$0.00	\$63.68
	08/01/2021	\$35.95	\$13.41	\$14.82	\$0.00	\$64.18
	12/01/2021	\$35.95	\$13.41	\$16.01	\$0.00	\$65.37
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$33.32	\$11.91	\$12.70	\$0.00	\$57.93
	06/01/2019	\$34.32	\$11.91	\$12.70	\$0.00	\$58.93
	08/01/2019	\$34.32	\$12.41	\$12.70	\$0.00	\$59.43
	12/01/2019	\$34.32	\$12.41	\$13.72	\$0.00	\$60.45
	06/01/2020	\$35.22	\$12.41	\$13.72	\$0.00	\$61.35
	08/01/2020	\$35.22	\$12.91	\$13.72	\$0.00	\$61.85
	12/01/2020	\$35.22	\$12.91	\$14.82	\$0.00	\$62.95
	06/01/2021	\$36.02	\$12.91	\$14.82	\$0.00	\$63.75
	08/01/2021	\$36.02	\$13.41	\$14.82	\$0.00	\$64.25
	12/01/2021	\$36.02	\$13.41	\$16.01	\$0.00	\$65.44
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$33.44	\$11.91	\$12.70	\$0.00	\$58.05
	06/01/2019	\$34.44	\$11.91	\$12.70	\$0.00	\$59.05
	08/01/2019	\$34.44	\$12.41	\$12.70	\$0.00	\$59.55
	12/01/2019	\$34.44	\$12.41	\$13.72	\$0.00	\$60.57
	06/01/2020	\$35.34	\$12.41	\$13.72	\$0.00	\$61.47
	08/01/2020	\$35.34	\$12.91	\$13.72	\$0.00	\$61.97
	12/01/2020	\$35.34	\$12.91	\$14.82	\$0.00	\$63.07
	06/01/2021	\$36.14	\$12.91	\$14.82	\$0.00	\$63.87
	08/01/2021	\$36.14	\$13.41	\$14.82	\$0.00	\$64.37
	12/01/2021	\$36.14	\$13.41	\$16.01	\$0.00	\$65.56
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2018	\$97.80	\$9.90	\$21.15	\$0.00	\$128.85
	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2018	\$34.27	\$7.85	\$14.44	\$0.00	\$56.56
	06/01/2019	\$35.14	\$7.85	\$14.44	\$0.00	\$57.43
	12/01/2019	\$36.00	\$7.85	\$14.44	\$0.00	\$58.29
	06/01/2020	\$36.89	\$7.85	\$14.44	\$0.00	\$59.18
	12/01/2020	\$37.78	\$7.85	\$14.44	\$0.00	\$60.07
	06/01/2021	\$38.70	\$7.85	\$14.44	\$0.00	\$60.99
	12/01/2021	\$39.61	\$7.85	\$14.44	\$0.00	\$61.90
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	12/01/2018	\$35.40	\$12.50	\$8.50	\$0.00	\$56.40
	06/01/2019	\$36.40	\$12.50	\$8.50	\$0.00	\$57.40
	12/01/2019	\$37.40	\$12.50	\$8.50	\$0.00	\$58.40
	06/01/2020	\$38.40	\$12.50	\$8.50	\$0.00	\$59.40
	12/01/2020	\$39.40	\$12.50	\$8.50	\$0.00	\$60.40
ASPHALT RAKER LABORERS - ZONE 2	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
BACKHOE/FRONT-END LOADER OPERATING ENGINEERS LOCAL 4	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
BARCO-TYPE JUMPING TAMPER LABORERS - ZONE 2	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
BLOCK PAVER, RAMMER / CURB SETTER LABORERS - ZONE 2	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
	12/01/2018	\$34.27	\$7.85	\$14.44	\$0.00	\$56.56
	06/01/2019	\$35.14	\$7.85	\$14.44	\$0.00	\$57.43
	12/01/2019	\$36.00	\$7.85	\$14.44	\$0.00	\$58.29
For apprentice rates see "Apprentice- LABORER"						
	06/01/2020	\$36.89	\$7.85	\$14.44	\$0.00	\$59.18
	12/01/2020	\$37.78	\$7.85	\$14.44	\$0.00	\$60.07
	06/01/2021	\$38.70	\$7.85	\$14.44	\$0.00	\$60.99
	12/01/2021	\$39.61	\$7.85	\$14.44	\$0.00	\$61.90
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BOILER MAKER BOILERMAKERS LOCAL 29	01/01/2019	\$44.71	\$7.07	\$17.72	\$0.00	\$69.50
	01/01/2020	\$46.10	\$7.07	\$17.98	\$0.00	\$71.15

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$29.06	\$7.07	\$11.52	\$0.00	\$47.65
2	65	\$29.06	\$7.07	\$11.52	\$0.00	\$47.65
3	70	\$31.30	\$7.07	\$12.40	\$0.00	\$50.77
4	75	\$33.53	\$7.07	\$13.30	\$0.00	\$53.90
5	80	\$35.77	\$7.07	\$14.18	\$0.00	\$57.02
6	85	\$38.00	\$7.07	\$15.07	\$0.00	\$60.14
7	90	\$40.24	\$7.07	\$15.95	\$0.00	\$63.26
8	95	\$42.47	\$7.07	\$16.84	\$0.00	\$66.38

Effective Date - 01/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
2	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
3	70	\$32.27	\$7.07	\$12.59	\$0.00	\$51.93
4	75	\$34.58	\$7.07	\$13.49	\$0.00	\$55.14
5	80	\$36.88	\$7.07	\$14.38	\$0.00	\$58.33
6	85	\$39.19	\$7.07	\$15.29	\$0.00	\$61.55
7	90	\$41.49	\$7.07	\$16.18	\$0.00	\$64.74
8	95	\$43.80	\$7.07	\$17.09	\$0.00	\$67.96

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 (LOWELL)	02/01/2019	\$51.41	\$10.75	\$20.06	\$0.00	\$82.22
	08/01/2019	\$52.76	\$10.75	\$20.20	\$0.00	\$83.71
	02/01/2020	\$53.36	\$10.75	\$20.20	\$0.00	\$84.31
	08/01/2020	\$54.71	\$10.75	\$20.35	\$0.00	\$85.81
	02/01/2021	\$55.31	\$10.75	\$20.35	\$0.00	\$86.41
	08/01/2021	\$56.71	\$10.75	\$20.51	\$0.00	\$87.97
	02/01/2022	\$57.29	\$10.75	\$20.51	\$0.00	\$88.55

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Lowell
Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.71	\$10.75	\$20.06	\$0.00	\$56.52
2	60	\$30.85	\$10.75	\$20.06	\$0.00	\$61.66
3	70	\$35.99	\$10.75	\$20.06	\$0.00	\$66.80
4	80	\$41.13	\$10.75	\$20.06	\$0.00	\$71.94
5	90	\$46.27	\$10.75	\$20.06	\$0.00	\$77.08

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.38	\$10.75	\$20.20	\$0.00	\$57.33
2	60	\$31.66	\$10.75	\$20.20	\$0.00	\$62.61
3	70	\$36.93	\$10.75	\$20.20	\$0.00	\$67.88
4	80	\$42.21	\$10.75	\$20.20	\$0.00	\$73.16
5	90	\$47.48	\$10.75	\$20.20	\$0.00	\$78.43

Notes:
Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2018	\$39.75	\$7.85	\$15.55	\$0.00	\$63.15
LABORERS - FOUNDATION AND MARINE	06/01/2019	\$40.75	\$7.85	\$15.55	\$0.00	\$64.15
	12/01/2019	\$41.75	\$7.85	\$15.55	\$0.00	\$65.15
	06/01/2020	\$42.74	\$7.85	\$15.55	\$0.00	\$66.14
	12/01/2020	\$43.72	\$7.85	\$15.55	\$0.00	\$67.12
	06/01/2021	\$44.74	\$7.85	\$15.55	\$0.00	\$68.14
	12/01/2021	\$45.75	\$7.85	\$15.55	\$0.00	\$69.15

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER	12/01/2018	\$38.60	\$7.85	\$15.55	\$0.00	\$62.00
LABORERS - FOUNDATION AND MARINE	06/01/2019	\$39.60	\$7.85	\$15.55	\$0.00	\$63.00
	12/01/2019	\$40.60	\$7.85	\$15.55	\$0.00	\$64.00
	06/01/2020	\$41.59	\$7.85	\$15.55	\$0.00	\$64.99
	12/01/2020	\$42.57	\$7.85	\$15.55	\$0.00	\$65.97
	06/01/2021	\$43.59	\$7.85	\$15.55	\$0.00	\$66.99
	12/01/2021	\$44.60	\$7.85	\$15.55	\$0.00	\$68.00

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2018	\$38.60	\$7.85	\$15.55	\$0.00	\$62.00
	06/01/2019	\$39.60	\$7.85	\$15.55	\$0.00	\$63.00
	12/01/2019	\$40.60	\$7.85	\$15.55	\$0.00	\$64.00
	06/01/2020	\$41.59	\$7.85	\$15.55	\$0.00	\$64.99
	12/01/2020	\$42.57	\$7.85	\$15.55	\$0.00	\$65.97
	06/01/2021	\$43.59	\$7.85	\$15.55	\$0.00	\$66.99
	12/01/2021	\$44.60	\$7.85	\$15.55	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	03/01/2019	\$42.35	\$9.90	\$17.50	\$0.00	\$69.75

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.18	\$9.90	\$1.73	\$0.00	\$32.81
2	60	\$25.41	\$9.90	\$1.73	\$0.00	\$37.04
3	70	\$29.65	\$9.90	\$12.31	\$0.00	\$51.86
4	75	\$31.76	\$9.90	\$12.31	\$0.00	\$53.97
5	80	\$33.88	\$9.90	\$14.04	\$0.00	\$57.82
6	80	\$33.88	\$9.90	\$14.04	\$0.00	\$57.82
7	90	\$38.12	\$9.90	\$15.77	\$0.00	\$63.79
8	90	\$38.12	\$9.90	\$15.77	\$0.00	\$63.79

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
Step 1&2 \$30.69/ 3&4 \$36.59/ 5&6 \$53.59/ 7&8 \$59.55

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME <i>CARPENTERS -ZONE 2 (Wood Frame)</i>	10/01/2018	\$27.09	\$7.07	\$7.86	\$0.00	\$42.02
	04/01/2019	\$27.52	\$7.07	\$7.86	\$0.00	\$42.45
	10/01/2019	\$27.95	\$7.07	\$7.86	\$0.00	\$42.88

All Aspects of New Wood Frame Work

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 2

Effective Date - 10/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.25	\$7.07	\$0.00	\$0.00	\$23.32
2	60	\$16.25	\$7.07	\$0.00	\$0.00	\$23.32
3	65	\$17.61	\$7.07	\$7.86	\$0.00	\$32.54
4	70	\$18.96	\$7.07	\$7.86	\$0.00	\$33.89
5	75	\$20.32	\$7.07	\$7.86	\$0.00	\$35.25
6	80	\$21.67	\$7.07	\$7.86	\$0.00	\$36.60
7	85	\$23.03	\$7.07	\$7.86	\$0.00	\$37.96
8	90	\$24.38	\$7.07	\$7.86	\$0.00	\$39.31

Effective Date - 04/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.51	\$7.07	\$0.00	\$0.00	\$23.58
2	60	\$16.51	\$7.07	\$0.00	\$0.00	\$23.58
3	65	\$17.89	\$7.07	\$7.86	\$0.00	\$32.82
4	70	\$19.26	\$7.07	\$7.86	\$0.00	\$34.19
5	75	\$20.64	\$7.07	\$7.86	\$0.00	\$35.57
6	80	\$22.02	\$7.07	\$7.86	\$0.00	\$36.95
7	85	\$23.39	\$7.07	\$7.86	\$0.00	\$38.32
8	90	\$24.77	\$7.07	\$7.86	\$0.00	\$39.70

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
Step 1&2 \$19.26/ 3&4 \$26.72/ 5&6 \$33.89/ 7&8 \$36.60

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING
BRICKLAYERS LOCAL 3 (LOWELL)

01/01/2019	\$43.68	\$12.50	\$22.41	\$0.30	\$78.89
07/01/2019	\$44.56	\$12.50	\$22.41	\$0.30	\$79.77
01/01/2020	\$45.80	\$12.50	\$22.41	\$0.30	\$81.01

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - CEMENT MASONRY/PLASTERING - Lowell
Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.84	\$12.50	\$15.41	\$0.00	\$49.75
2	60	\$26.21	\$12.50	\$17.41	\$0.30	\$56.42
3	65	\$28.39	\$12.50	\$18.41	\$0.30	\$59.60
4	70	\$30.58	\$12.50	\$19.41	\$0.30	\$62.79
5	75	\$32.76	\$12.50	\$20.41	\$0.30	\$65.97
6	80	\$34.94	\$12.50	\$21.41	\$0.30	\$69.15
7	90	\$39.31	\$12.50	\$22.41	\$0.30	\$74.52

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.28	\$12.50	\$15.41	\$0.00	\$50.19
2	60	\$26.74	\$12.50	\$17.41	\$0.30	\$56.95
3	65	\$28.96	\$12.50	\$18.41	\$0.30	\$60.17
4	70	\$31.19	\$12.50	\$19.41	\$0.30	\$63.40
5	75	\$33.42	\$12.50	\$20.41	\$0.30	\$66.63
6	80	\$35.65	\$12.50	\$21.41	\$0.30	\$69.86
7	90	\$40.10	\$12.50	\$22.41	\$0.30	\$75.31

Notes:

Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.

Apprentice to Journeyworker Ratio:1:3
CHAIN SAW OPERATOR
LABORERS - ZONE 2

12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES
OPERATING ENGINEERS LOCAL 4

12/01/2018	\$48.58	\$11.50	\$15.60	\$0.00	\$75.68
06/01/2019	\$49.68	\$11.50	\$15.60	\$0.00	\$76.78
12/01/2019	\$50.83	\$11.50	\$15.60	\$0.00	\$77.93
06/01/2020	\$51.93	\$11.50	\$15.60	\$0.00	\$79.03
12/01/2020	\$53.08	\$11.50	\$15.60	\$0.00	\$80.18
06/01/2021	\$54.18	\$11.50	\$15.60	\$0.00	\$81.28
12/01/2021	\$55.33	\$11.50	\$15.60	\$0.00	\$82.43

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
COMPRESSOR OPERATOR OPERATING ENGINEERS LOCAL 4	12/01/2018	\$32.03	\$11.50	\$15.60	\$0.00	\$59.13
	06/01/2019	\$32.78	\$11.50	\$15.60	\$0.00	\$59.88
	12/01/2019	\$33.57	\$11.50	\$15.60	\$0.00	\$60.67
	06/01/2020	\$34.32	\$11.50	\$15.60	\$0.00	\$61.42
	12/01/2020	\$35.10	\$11.50	\$15.60	\$0.00	\$62.20
	06/01/2021	\$35.85	\$11.50	\$15.60	\$0.00	\$62.95
	12/01/2021	\$36.64	\$11.50	\$15.60	\$0.00	\$63.74

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE)
PAINTERS LOCAL 35 - ZONE 2

01/01/2019	\$50.36	\$8.15	\$20.85	\$0.00	\$79.36
07/01/2019	\$51.46	\$8.15	\$20.85	\$0.00	\$80.46
01/01/2020	\$52.56	\$8.15	\$20.85	\$0.00	\$81.56
07/01/2020	\$53.66	\$8.15	\$20.85	\$0.00	\$82.66
01/01/2021	\$54.76	\$8.15	\$20.85	\$0.00	\$83.76

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.18	\$8.15	\$0.00	\$0.00	\$33.33
2	55	\$27.70	\$8.15	\$5.64	\$0.00	\$41.49
3	60	\$30.22	\$8.15	\$6.15	\$0.00	\$44.52
4	65	\$32.73	\$8.15	\$6.66	\$0.00	\$47.54
5	70	\$35.25	\$8.15	\$17.78	\$0.00	\$61.18
6	75	\$37.77	\$8.15	\$18.29	\$0.00	\$64.21
7	80	\$40.29	\$8.15	\$18.80	\$0.00	\$67.24
8	90	\$45.32	\$8.15	\$19.83	\$0.00	\$73.30

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.73	\$8.15	\$0.00	\$0.00	\$33.88
2	55	\$28.30	\$8.15	\$5.64	\$0.00	\$42.09
3	60	\$30.88	\$8.15	\$6.15	\$0.00	\$45.18
4	65	\$33.45	\$8.15	\$6.66	\$0.00	\$48.26
5	70	\$36.02	\$8.15	\$17.78	\$0.00	\$61.95
6	75	\$38.60	\$8.15	\$18.29	\$0.00	\$65.04
7	80	\$41.17	\$8.15	\$18.80	\$0.00	\$68.12
8	90	\$46.31	\$8.15	\$19.83	\$0.00	\$74.29

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN
LABORERS - ZONE 2

12/01/2018	\$38.80	\$7.85	\$15.35	\$0.00	\$62.00
06/01/2019	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
12/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00

For apprentice rates see "Apprentice- LABORER"

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS - ZONE 2	12/01/2018	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
	06/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00
	12/01/2019	\$41.80	\$7.85	\$15.35	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS LABORERS - ZONE 2	12/01/2018	\$39.55	\$7.85	\$15.35	\$0.00	\$62.75
	06/01/2019	\$40.55	\$7.85	\$15.35	\$0.00	\$63.75
	12/01/2019	\$41.55	\$7.85	\$15.35	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER LABORERS - ZONE 2	12/01/2018	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
	06/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00
	12/01/2019	\$41.80	\$7.85	\$15.35	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR LABORERS - ZONE 2	12/01/2018	\$39.55	\$7.85	\$15.35	\$0.00	\$62.75
	06/01/2019	\$40.55	\$7.85	\$15.35	\$0.00	\$63.75
	12/01/2019	\$41.55	\$7.85	\$15.35	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER LABORERS - ZONE 2	12/01/2018	\$38.80	\$7.85	\$15.35	\$0.00	\$62.00
	06/01/2019	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
	12/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2018	\$65.20	\$9.90	\$21.15	\$0.00	\$96.25
	08/01/2019	\$68.52	\$9.90	\$21.15	\$0.00	\$99.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2018	\$46.57	\$9.90	\$21.15	\$0.00	\$77.62
	08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2018	\$69.86	\$9.90	\$21.15	\$0.00	\$100.91
	08/01/2019	\$73.41	\$9.90	\$21.15	\$0.00	\$104.46
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2018	\$97.80	\$9.90	\$21.15	\$0.00	\$128.85
	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) ELECTRICIANS LOCAL 103	03/01/2019	\$51.10	\$13.00	\$18.88	\$0.00	\$82.98
For apprentice rates see "Apprentice- ELECTRICIAN"						
ELECTRICIAN ELECTRICIANS LOCAL 103	03/01/2019	\$51.10	\$13.00	\$18.88	\$0.00	\$82.98

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 103

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.44	\$13.00	\$0.61	\$0.00	\$34.05
2	40	\$20.44	\$13.00	\$0.61	\$0.00	\$34.05
3	45	\$23.00	\$13.00	\$14.34	\$0.00	\$50.34
4	45	\$23.00	\$13.00	\$14.34	\$0.00	\$50.34
5	50	\$25.55	\$13.00	\$14.76	\$0.00	\$53.31
6	55	\$28.11	\$13.00	\$15.17	\$0.00	\$56.28
7	60	\$30.66	\$13.00	\$15.58	\$0.00	\$59.24
8	65	\$33.22	\$13.00	\$16.00	\$0.00	\$62.22
9	70	\$35.77	\$13.00	\$16.40	\$0.00	\$65.17
10	75	\$38.33	\$13.00	\$16.82	\$0.00	\$68.15

Notes:

App Prior 1/1/03; 30/35/40/45/50/55/65/70/75/80

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR	01/01/2019	\$59.47	\$15.58	\$17.51	\$0.00	\$92.56
ELEVATOR CONSTRUCTORS LOCAL 4	01/01/2020	\$61.42	\$15.73	\$18.41	\$0.00	\$95.56
	01/01/2021	\$63.47	\$15.88	\$19.31	\$0.00	\$98.66
	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.74	\$15.58	\$0.00	\$0.00	\$45.32
2	55	\$32.71	\$15.58	\$17.51	\$0.00	\$65.80
3	65	\$38.66	\$15.58	\$17.51	\$0.00	\$71.75
4	70	\$41.63	\$15.58	\$17.51	\$0.00	\$74.72
5	80	\$47.58	\$15.58	\$17.51	\$0.00	\$80.67

Effective Date - 01/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.71	\$15.73	\$0.00	\$0.00	\$46.44
2	55	\$33.78	\$15.73	\$18.41	\$0.00	\$67.92
3	65	\$39.92	\$15.73	\$18.41	\$0.00	\$74.06
4	70	\$42.99	\$15.73	\$18.41	\$0.00	\$77.13
5	80	\$49.14	\$15.73	\$18.41	\$0.00	\$83.28

Notes:

Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

Apprentice to Journeyworker Ratio:1:1

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2019	\$41.63	\$15.58	\$17.51	\$0.00	\$74.72
	01/01/2020	\$42.99	\$15.73	\$18.41	\$0.00	\$77.13
	01/01/2021	\$44.43	\$15.88	\$19.31	\$0.00	\$79.62
	01/01/2022	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"						
FENCE & GUARD RAIL ERECTOR <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2018	\$43.19	\$11.00	\$15.50	\$0.00	\$69.69
	05/01/2019	\$44.33	\$11.00	\$15.50	\$0.00	\$70.83
	11/01/2019	\$45.33	\$11.00	\$15.50	\$0.00	\$71.83
	05/01/2020	\$46.48	\$11.00	\$15.50	\$0.00	\$72.98
	11/01/2020	\$47.48	\$11.00	\$15.50	\$0.00	\$73.98
	05/01/2021	\$48.68	\$11.00	\$15.50	\$0.00	\$75.18
	11/01/2021	\$49.63	\$11.00	\$15.50	\$0.00	\$76.13
	05/01/2022	\$50.78	\$11.00	\$15.50	\$0.00	\$77.28
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2018	\$44.67	\$11.00	\$15.50	\$0.00	\$71.17
	05/01/2019	\$45.82	\$11.00	\$15.50	\$0.00	\$72.32
	11/01/2019	\$46.83	\$11.00	\$15.50	\$0.00	\$73.33
	05/01/2020	\$47.98	\$11.00	\$15.50	\$0.00	\$74.48
	11/01/2020	\$48.99	\$11.00	\$15.50	\$0.00	\$75.49
	05/01/2021	\$50.15	\$11.00	\$15.50	\$0.00	\$76.65
	11/01/2021	\$51.16	\$11.00	\$15.50	\$0.00	\$77.66
	05/01/2022	\$52.32	\$11.00	\$15.50	\$0.00	\$78.82
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2018	\$22.45	\$11.00	\$15.50	\$0.00	\$48.95
	05/01/2019	\$23.13	\$11.00	\$15.50	\$0.00	\$49.63
	11/01/2019	\$23.72	\$11.00	\$15.50	\$0.00	\$50.22
	05/01/2020	\$24.39	\$11.00	\$15.50	\$0.00	\$50.89
	11/01/2020	\$24.98	\$11.00	\$15.50	\$0.00	\$51.48
	05/01/2021	\$25.66	\$11.00	\$15.50	\$0.00	\$52.16
	11/01/2021	\$26.26	\$11.00	\$15.50	\$0.00	\$52.76
	05/01/2022	\$26.93	\$11.00	\$15.50	\$0.00	\$53.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 103</i>	03/01/2019	\$51.10	\$13.00	\$18.88	\$0.00	\$82.98
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i> <i>LOCAL 103</i>	03/01/2019	\$38.33	\$13.00	\$16.82	\$0.00	\$68.15
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIREMAN (ASST. ENGINEER) OPERATING ENGINEERS LOCAL 4	12/01/2018	\$39.13	\$11.50	\$15.60	\$0.00	\$66.23
	06/01/2019	\$40.04	\$11.50	\$15.60	\$0.00	\$67.14
	12/01/2019	\$40.99	\$11.50	\$15.60	\$0.00	\$68.09
	06/01/2020	\$41.90	\$11.50	\$15.60	\$0.00	\$69.00
	12/01/2020	\$42.85	\$11.50	\$15.60	\$0.00	\$69.95
	06/01/2021	\$43.76	\$11.50	\$15.60	\$0.00	\$70.86
	12/01/2021	\$44.71	\$11.50	\$15.60	\$0.00	\$71.81
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER LABORERS - ZONE 2	12/01/2018	\$22.50	\$7.85	\$14.44	\$0.00	\$44.79
	06/01/2019	\$22.50	\$7.85	\$14.44	\$0.00	\$44.79
	12/01/2019	\$23.50	\$7.85	\$14.44	\$0.00	\$45.79
	06/01/2020	\$23.50	\$7.85	\$14.44	\$0.00	\$45.79
	12/01/2020	\$24.50	\$7.85	\$14.44	\$0.00	\$46.79
	06/01/2021	\$24.50	\$7.85	\$14.44	\$0.00	\$46.79
	12/01/2021	\$24.50	\$7.85	\$14.44	\$0.00	\$46.79
For apprentice rates see "Apprentice- LABORER"						
FLOORCOVERER FLOORCOVERERS LOCAL 2168 ZONE 1	03/01/2016	\$42.13	\$9.80	\$17.62	\$0.00	\$69.55

Apprentice - FLOORCOVERER - Local 2168 Zone 1

Effective Date - 03/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.07	\$9.80	\$1.79	\$0.00	\$32.66
2	55	\$23.17	\$9.80	\$1.79	\$0.00	\$34.76
3	60	\$25.28	\$9.80	\$12.25	\$0.00	\$47.33
4	65	\$27.38	\$9.80	\$12.25	\$0.00	\$49.43
5	70	\$29.49	\$9.80	\$14.04	\$0.00	\$53.33
6	75	\$31.60	\$9.80	\$14.04	\$0.00	\$55.44
7	80	\$33.70	\$9.80	\$15.83	\$0.00	\$59.33
8	85	\$35.81	\$9.80	\$15.83	\$0.00	\$61.44

Notes: Steps are 750 hrs.
% After 09/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)
Step 1&2 \$30.55/ 3&4 \$36.49/ 5&6 \$53.33/ 7&8 \$59.33

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
GENERATOR/LIGHTING PLANT/HEATERS OPERATING ENGINEERS LOCAL 4	12/01/2018	\$32.03	\$11.50	\$15.60	\$0.00	\$59.13
	06/01/2019	\$32.78	\$11.50	\$15.60	\$0.00	\$59.88
	12/01/2019	\$33.57	\$11.50	\$15.60	\$0.00	\$60.67
	06/01/2020	\$34.32	\$11.50	\$15.60	\$0.00	\$61.42
	12/01/2020	\$35.10	\$11.50	\$15.60	\$0.00	\$62.20
	06/01/2021	\$35.85	\$11.50	\$15.60	\$0.00	\$62.95
	12/01/2021	\$36.64	\$11.50	\$15.60	\$0.00	\$63.74

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)
GLAZIERS LOCAL 35 (ZONE 2)

01/01/2019	\$39.86	\$8.15	\$20.85	\$0.00	\$68.86
07/01/2019	\$40.96	\$8.15	\$20.85	\$0.00	\$69.96
01/01/2020	\$42.06	\$8.15	\$20.85	\$0.00	\$71.06
07/01/2020	\$43.16	\$8.15	\$20.85	\$0.00	\$72.16
01/01/2021	\$44.26	\$8.15	\$20.85	\$0.00	\$73.26

Apprentice - GLAZIER - Local 35 Zone 2

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.93	\$8.15	\$0.00	\$0.00	\$28.08
2	55	\$21.92	\$8.15	\$5.64	\$0.00	\$35.71
3	60	\$23.92	\$8.15	\$6.15	\$0.00	\$38.22
4	65	\$25.91	\$8.15	\$6.66	\$0.00	\$40.72
5	70	\$27.90	\$8.15	\$17.78	\$0.00	\$53.83
6	75	\$29.90	\$8.15	\$18.29	\$0.00	\$56.34
7	80	\$31.89	\$8.15	\$18.80	\$0.00	\$58.84
8	90	\$35.87	\$8.15	\$19.83	\$0.00	\$63.85

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.48	\$8.15	\$0.00	\$0.00	\$28.63
2	55	\$22.53	\$8.15	\$5.64	\$0.00	\$36.32
3	60	\$24.58	\$8.15	\$6.15	\$0.00	\$38.88
4	65	\$26.62	\$8.15	\$6.66	\$0.00	\$41.43
5	70	\$28.67	\$8.15	\$17.78	\$0.00	\$54.60
6	75	\$30.72	\$8.15	\$18.29	\$0.00	\$57.16
7	80	\$32.77	\$8.15	\$18.80	\$0.00	\$59.72
8	90	\$36.86	\$8.15	\$19.83	\$0.00	\$64.84

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HOISTING ENGINEER/CRANES/GRADALLS OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 12/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$26.17	\$11.50	\$0.00	\$0.00	\$37.67
2	60	\$28.55	\$11.50	\$15.60	\$0.00	\$55.65
3	65	\$30.93	\$11.50	\$15.60	\$0.00	\$58.03
4	70	\$33.31	\$11.50	\$15.60	\$0.00	\$60.41
5	75	\$35.69	\$11.50	\$15.60	\$0.00	\$62.79
6	80	\$38.06	\$11.50	\$15.60	\$0.00	\$65.16
7	85	\$40.44	\$11.50	\$15.60	\$0.00	\$67.54
8	90	\$42.82	\$11.50	\$15.60	\$0.00	\$69.92

Effective Date - 06/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$26.77	\$11.50	\$0.00	\$0.00	\$38.27
2	60	\$29.21	\$11.50	\$15.60	\$0.00	\$56.31
3	65	\$31.64	\$11.50	\$15.60	\$0.00	\$58.74
4	70	\$34.08	\$11.50	\$15.60	\$0.00	\$61.18
5	75	\$36.51	\$11.50	\$15.60	\$0.00	\$63.61
6	80	\$38.94	\$11.50	\$15.60	\$0.00	\$66.04
7	85	\$41.38	\$11.50	\$15.60	\$0.00	\$68.48
8	90	\$43.81	\$11.50	\$15.60	\$0.00	\$70.91

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - A	02/01/2019	\$46.50	\$13.20	\$24.12	\$2.52	\$86.34
	08/01/2019	\$48.10	\$13.20	\$24.12	\$2.56	\$87.98
	02/01/2020	\$49.75	\$13.20	\$24.12	\$2.61	\$89.68
	08/01/2020	\$51.35	\$13.20	\$24.12	\$2.66	\$91.33
	02/01/2021	\$53.00	\$13.20	\$24.12	\$2.71	\$93.03
	08/01/2021	\$54.75	\$13.20	\$24.12	\$2.76	\$94.83
	02/01/2022	\$56.50	\$13.20	\$24.12	\$2.81	\$96.63

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103	03/01/2019	\$51.10	\$13.00	\$18.88	\$0.00	\$82.98
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For apprentice rates see "Apprentice- ELECTRICIAN"

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Page 15 of 41

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - A	02/01/2019	\$46.50	\$13.20	\$24.12	\$2.52	\$86.34
	08/01/2019	\$48.10	\$13.20	\$24.12	\$2.56	\$87.98
	02/01/2020	\$49.75	\$13.20	\$24.12	\$2.61	\$89.68
	08/01/2020	\$51.35	\$13.20	\$24.12	\$2.66	\$91.33
	02/01/2021	\$53.00	\$13.20	\$24.12	\$2.71	\$93.03
	08/01/2021	\$54.75	\$13.20	\$24.12	\$2.76	\$94.83
	02/01/2022	\$56.50	\$13.20	\$24.12	\$2.81	\$96.63
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (TESTING AND BALANCING -WATER) PIPEFITTERS LOCAL 537	03/01/2019	\$53.19	\$10.95	\$19.74	\$0.00	\$83.88
	09/01/2019	\$54.69	\$10.95	\$19.74	\$0.00	\$85.38
	03/01/2020	\$56.19	\$10.95	\$19.74	\$0.00	\$86.88
	09/01/2020	\$57.69	\$10.95	\$19.74	\$0.00	\$88.38
	03/01/2021	\$59.19	\$10.95	\$19.74	\$0.00	\$89.88
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC PIPEFITTERS LOCAL 537	03/01/2019	\$53.19	\$10.95	\$19.74	\$0.00	\$83.88
	09/01/2019	\$54.69	\$10.95	\$19.74	\$0.00	\$85.38
	03/01/2020	\$56.19	\$10.95	\$19.74	\$0.00	\$86.88
	09/01/2020	\$57.69	\$10.95	\$19.74	\$0.00	\$88.38
	03/01/2021	\$59.19	\$10.95	\$19.74	\$0.00	\$89.88
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS LABORERS - ZONE 2	12/01/2018	\$34.27	\$7.85	\$14.44	\$0.00	\$56.56
	06/01/2019	\$35.14	\$7.85	\$14.44	\$0.00	\$57.43
	12/01/2019	\$36.00	\$7.85	\$14.44	\$0.00	\$58.29
	06/01/2020	\$36.89	\$7.85	\$14.44	\$0.00	\$59.18
	12/01/2020	\$37.78	\$7.85	\$14.44	\$0.00	\$60.07
	06/01/2021	\$38.70	\$7.85	\$14.44	\$0.00	\$60.99
	12/01/2021	\$39.61	\$7.85	\$14.44	\$0.00	\$61.90
For apprentice rates see "Apprentice- LABORER"						
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	09/01/2018	\$47.09	\$12.50	\$15.60	\$0.00	\$75.19
	09/01/2019	\$49.59	\$12.50	\$15.60	\$0.00	\$77.69

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Boston
Effective Date - 09/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.55	\$12.50	\$11.40	\$0.00	\$47.45
2	60	\$28.25	\$12.50	\$12.24	\$0.00	\$52.99
3	70	\$32.96	\$12.50	\$13.08	\$0.00	\$58.54
4	80	\$37.67	\$12.50	\$13.92	\$0.00	\$64.09

Effective Date - 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.80	\$12.50	\$11.40	\$0.00	\$48.70
2	60	\$29.75	\$12.50	\$12.24	\$0.00	\$54.49
3	70	\$34.71	\$12.50	\$13.08	\$0.00	\$60.29
4	80	\$39.67	\$12.50	\$13.92	\$0.00	\$66.09

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 (BOSTON AREA)	09/16/2018	\$46.07	\$8.00	\$22.85	\$0.00	\$76.92
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Apprentice - IRONWORKER - Local 7 Boston
Effective Date - 09/16/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$27.64	\$8.00	\$22.85	\$0.00	\$58.49
2	70	\$32.25	\$8.00	\$22.85	\$0.00	\$63.10
3	75	\$34.55	\$8.00	\$22.85	\$0.00	\$65.40
4	80	\$36.86	\$8.00	\$22.85	\$0.00	\$67.71
5	85	\$39.16	\$8.00	\$22.85	\$0.00	\$70.01
6	90	\$41.46	\$8.00	\$22.85	\$0.00	\$72.31

Notes:

** Structural 1:6; Ornamental 1:4

Apprentice to Journeyworker Ratio:**

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 2	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
LABORERS - ZONE 2	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15

Apprentice - LABORER - Zone 2

Effective Date - 12/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.11	\$7.85	\$14.44	\$0.00	\$42.40
2	70	\$23.46	\$7.85	\$14.44	\$0.00	\$45.75
3	80	\$26.82	\$7.85	\$14.44	\$0.00	\$49.11
4	90	\$30.17	\$7.85	\$14.44	\$0.00	\$52.46

Effective Date - 06/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.63	\$7.85	\$14.44	\$0.00	\$42.92
2	70	\$24.07	\$7.85	\$14.44	\$0.00	\$46.36
3	80	\$27.51	\$7.85	\$14.44	\$0.00	\$49.80
4	90	\$30.95	\$7.85	\$14.44	\$0.00	\$53.24

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
LABORERS - ZONE 2	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
LABORERS - ZONE 2	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	12/01/2018	\$33.72	\$7.85	\$14.39	\$0.00	\$55.96
LABORERS - ZONE 2	06/01/2019	\$34.59	\$7.85	\$14.39	\$0.00	\$56.83
	12/01/2019	\$35.45	\$7.85	\$14.39	\$0.00	\$57.69

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER LABORERS - ZONE 2	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
LABORER: MULTI-TRADE TENDER LABORERS - ZONE 2	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER LABORERS - ZONE 2	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15
This classification applies to all tree work associated with the removal of standing trees, and trimming and removal of branches and limbs when the work is not done for a utility company for the purpose of operation, maintenance or repair of utility company equipment. For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR LABORERS - ZONE 2	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
MARBLE & TILE FINISHERS BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2019	\$40.91	\$10.75	\$18.97	\$0.00	\$70.63
	08/01/2019	\$41.99	\$10.75	\$19.11	\$0.00	\$71.85
	02/01/2020	\$42.50	\$10.75	\$19.11	\$0.00	\$72.36
	08/01/2020	\$43.58	\$10.75	\$19.26	\$0.00	\$73.59
	02/01/2021	\$44.09	\$10.75	\$19.26	\$0.00	\$74.10
	08/01/2021	\$45.21	\$10.75	\$19.42	\$0.00	\$75.38
	02/01/2022	\$45.68	\$10.75	\$19.42	\$0.00	\$75.85

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.46	\$10.75	\$18.97	\$0.00	\$50.18
2	60	\$24.55	\$10.75	\$18.97	\$0.00	\$54.27
3	70	\$28.64	\$10.75	\$18.97	\$0.00	\$58.36
4	80	\$32.73	\$10.75	\$18.97	\$0.00	\$62.45
5	90	\$36.82	\$10.75	\$18.97	\$0.00	\$66.54

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.00	\$10.75	\$19.11	\$0.00	\$50.86
2	60	\$25.19	\$10.75	\$19.11	\$0.00	\$55.05
3	70	\$29.39	\$10.75	\$19.11	\$0.00	\$59.25
4	80	\$33.59	\$10.75	\$19.11	\$0.00	\$63.45
5	90	\$37.79	\$10.75	\$19.11	\$0.00	\$67.65

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	02/01/2019	\$53.57	\$10.75	\$20.66	\$0.00	\$84.98
BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2019	\$54.92	\$10.75	\$20.80	\$0.00	\$86.47
	02/01/2020	\$55.55	\$10.75	\$20.80	\$0.00	\$87.10
	08/01/2020	\$56.90	\$10.75	\$20.95	\$0.00	\$88.60
	02/01/2021	\$57.54	\$10.75	\$20.95	\$0.00	\$89.24
	08/01/2021	\$58.94	\$10.75	\$21.11	\$0.00	\$90.80
	02/01/2022	\$59.51	\$10.75	\$21.11	\$0.00	\$91.37

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.79	\$10.75	\$20.66	\$0.00	\$58.20
2	60	\$32.14	\$10.75	\$20.66	\$0.00	\$63.55
3	70	\$37.50	\$10.75	\$20.66	\$0.00	\$68.91
4	80	\$42.86	\$10.75	\$20.66	\$0.00	\$74.27
5	90	\$48.21	\$10.75	\$20.66	\$0.00	\$79.62

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.46	\$10.75	\$20.80	\$0.00	\$59.01
2	60	\$32.95	\$10.75	\$20.80	\$0.00	\$64.50
3	70	\$38.44	\$10.75	\$20.80	\$0.00	\$69.99
4	80	\$43.94	\$10.75	\$20.80	\$0.00	\$75.49
5	90	\$49.43	\$10.75	\$20.80	\$0.00	\$80.98

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANICS MAINTENANCE	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 2)	10/01/2018	\$38.02	\$9.90	\$18.50	\$0.00	\$66.42
MILLWRIGHTS LOCAL 1121 - Zone 2	04/01/2019	\$38.87	\$9.90	\$18.50	\$0.00	\$67.27

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 2

Effective Date - 10/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$20.91	\$9.90	\$5.31	\$0.00	\$36.12
2	65	\$24.71	\$9.90	\$15.13	\$0.00	\$49.74
3	75	\$28.52	\$9.90	\$16.10	\$0.00	\$54.52
4	85	\$32.32	\$9.90	\$17.06	\$0.00	\$59.28

Effective Date - 04/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$21.38	\$9.90	\$5.31	\$0.00	\$36.59
2	65	\$25.27	\$9.90	\$15.13	\$0.00	\$50.30
3	75	\$29.15	\$9.90	\$16.10	\$0.00	\$55.15
4	85	\$33.04	\$9.90	\$17.06	\$0.00	\$60.00

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

MORTAR MIXER	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
LABORERS - ZONE 2	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS)	12/01/2018	\$23.06	\$11.50	\$15.60	\$0.00	\$50.16
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$23.61	\$11.50	\$15.60	\$0.00	\$50.71
	12/01/2019	\$24.18	\$11.50	\$15.60	\$0.00	\$51.28
	06/01/2020	\$24.73	\$11.50	\$15.60	\$0.00	\$51.83
	12/01/2020	\$25.30	\$11.50	\$15.60	\$0.00	\$52.40
	06/01/2021	\$25.85	\$11.50	\$15.60	\$0.00	\$52.95
	12/01/2021	\$26.43	\$11.50	\$15.60	\$0.00	\$53.53

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS)	12/01/2018	\$27.42	\$11.50	\$15.60	\$0.00	\$54.52
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$28.07	\$11.50	\$15.60	\$0.00	\$55.17
	12/01/2019	\$28.74	\$11.50	\$15.60	\$0.00	\$55.84
	06/01/2020	\$29.39	\$11.50	\$15.60	\$0.00	\$56.49
	12/01/2020	\$30.07	\$11.50	\$15.60	\$0.00	\$57.17
	06/01/2021	\$30.71	\$11.50	\$15.60	\$0.00	\$57.81
	12/01/2021	\$31.39	\$11.50	\$15.60	\$0.00	\$58.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS II OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS)
PAINTERS LOCAL 35 - ZONE 2

01/01/2019	\$50.36	\$8.15	\$20.85	\$0.00	\$79.36
07/01/2019	\$51.46	\$8.15	\$20.85	\$0.00	\$80.46
01/01/2020	\$52.56	\$8.15	\$20.85	\$0.00	\$81.56
07/01/2020	\$53.66	\$8.15	\$20.85	\$0.00	\$82.66
01/01/2021	\$54.76	\$8.15	\$20.85	\$0.00	\$83.76

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.18	\$8.15	\$0.00	\$0.00	\$33.33
2	55	\$27.70	\$8.15	\$5.64	\$0.00	\$41.49
3	60	\$30.22	\$8.15	\$6.15	\$0.00	\$44.52
4	65	\$32.73	\$8.15	\$6.66	\$0.00	\$47.54
5	70	\$35.25	\$8.15	\$17.78	\$0.00	\$61.18
6	75	\$37.77	\$8.15	\$18.29	\$0.00	\$64.21
7	80	\$40.29	\$8.15	\$18.80	\$0.00	\$67.24
8	90	\$45.32	\$8.15	\$19.83	\$0.00	\$73.30

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.73	\$8.15	\$0.00	\$0.00	\$33.88
2	55	\$28.30	\$8.15	\$5.64	\$0.00	\$42.09
3	60	\$30.88	\$8.15	\$6.15	\$0.00	\$45.18
4	65	\$33.45	\$8.15	\$6.66	\$0.00	\$48.26
5	70	\$36.02	\$8.15	\$17.78	\$0.00	\$61.95
6	75	\$38.60	\$8.15	\$18.29	\$0.00	\$65.04
7	80	\$41.17	\$8.15	\$18.80	\$0.00	\$68.12
8	90	\$46.31	\$8.15	\$19.83	\$0.00	\$74.29

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2019	\$41.26	\$8.15	\$20.85	\$0.00	\$70.26
* If 30% or more of surfaces to be painted are new construction,	07/01/2019	\$42.36	\$8.15	\$20.85	\$0.00	\$71.36
NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2	01/01/2020	\$43.46	\$8.15	\$20.85	\$0.00	\$72.46
	07/01/2020	\$44.56	\$8.15	\$20.85	\$0.00	\$73.56
	01/01/2021	\$45.66	\$8.15	\$20.85	\$0.00	\$74.66

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New
Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.63	\$8.15	\$0.00	\$0.00	\$28.78
2	55	\$22.69	\$8.15	\$5.64	\$0.00	\$36.48
3	60	\$24.76	\$8.15	\$6.15	\$0.00	\$39.06
4	65	\$26.82	\$8.15	\$6.66	\$0.00	\$41.63
5	70	\$28.88	\$8.15	\$17.78	\$0.00	\$54.81
6	75	\$30.95	\$8.15	\$18.29	\$0.00	\$57.39
7	80	\$33.01	\$8.15	\$18.80	\$0.00	\$59.96
8	90	\$37.13	\$8.15	\$19.83	\$0.00	\$65.11

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.18	\$8.15	\$0.00	\$0.00	\$29.33
2	55	\$23.30	\$8.15	\$5.64	\$0.00	\$37.09
3	60	\$25.42	\$8.15	\$6.15	\$0.00	\$39.72
4	65	\$27.53	\$8.15	\$6.66	\$0.00	\$42.34
5	70	\$29.65	\$8.15	\$17.78	\$0.00	\$55.58
6	75	\$31.77	\$8.15	\$18.29	\$0.00	\$58.21
7	80	\$33.89	\$8.15	\$18.80	\$0.00	\$60.84
8	90	\$38.12	\$8.15	\$19.83	\$0.00	\$66.10

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2019	\$39.32	\$8.15	\$20.85	\$0.00	\$68.32
PAINTERS LOCAL 35 - ZONE 2	07/01/2019	\$40.42	\$8.15	\$20.85	\$0.00	\$69.42
	01/01/2020	\$41.52	\$8.15	\$20.85	\$0.00	\$70.52
	07/01/2020	\$42.62	\$8.15	\$20.85	\$0.00	\$71.62
	01/01/2021	\$43.72	\$8.15	\$20.85	\$0.00	\$72.72

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint
Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.66	\$8.15	\$0.00	\$0.00	\$27.81
2	55	\$21.63	\$8.15	\$5.64	\$0.00	\$35.42
3	60	\$23.59	\$8.15	\$6.15	\$0.00	\$37.89
4	65	\$25.56	\$8.15	\$6.66	\$0.00	\$40.37
5	70	\$27.52	\$8.15	\$17.78	\$0.00	\$53.45
6	75	\$29.49	\$8.15	\$18.29	\$0.00	\$55.93
7	80	\$31.46	\$8.15	\$18.80	\$0.00	\$58.41
8	90	\$35.39	\$8.15	\$19.83	\$0.00	\$63.37

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.21	\$8.15	\$0.00	\$0.00	\$28.36
2	55	\$22.23	\$8.15	\$5.64	\$0.00	\$36.02
3	60	\$24.25	\$8.15	\$6.15	\$0.00	\$38.55
4	65	\$26.27	\$8.15	\$6.66	\$0.00	\$41.08
5	70	\$28.29	\$8.15	\$17.78	\$0.00	\$54.22
6	75	\$30.32	\$8.15	\$18.29	\$0.00	\$56.76
7	80	\$32.34	\$8.15	\$18.80	\$0.00	\$59.29
8	90	\$36.38	\$8.15	\$19.83	\$0.00	\$64.36

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (TRAFFIC MARKINGS)	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
LABORERS - ZONE 2	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15
For Apprentice rates see "Apprentice- LABORER"						
PAINTER / TAPER (BRUSH, NEW) *	01/01/2019	\$39.86	\$8.15	\$20.85	\$0.00	\$68.86
* If 30% or more of surfaces to be painted are new construction,	07/01/2019	\$40.96	\$8.15	\$20.85	\$0.00	\$69.96
NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2	01/01/2020	\$42.06	\$8.15	\$20.85	\$0.00	\$71.06
	07/01/2020	\$43.16	\$8.15	\$20.85	\$0.00	\$72.16
	01/01/2021	\$44.25	\$8.15	\$20.85	\$0.00	\$73.25

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW
Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.93	\$8.15	\$0.00	\$0.00	\$28.08
2	55	\$21.92	\$8.15	\$5.64	\$0.00	\$35.71
3	60	\$23.92	\$8.15	\$6.15	\$0.00	\$38.22
4	65	\$25.91	\$8.15	\$6.66	\$0.00	\$40.72
5	70	\$27.90	\$8.15	\$17.78	\$0.00	\$53.83
6	75	\$29.90	\$8.15	\$18.29	\$0.00	\$56.34
7	80	\$31.89	\$8.15	\$18.80	\$0.00	\$58.84
8	90	\$35.87	\$8.15	\$19.83	\$0.00	\$63.85

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.48	\$8.15	\$0.00	\$0.00	\$28.63
2	55	\$22.53	\$8.15	\$5.64	\$0.00	\$36.32
3	60	\$24.58	\$8.15	\$6.15	\$0.00	\$38.88
4	65	\$26.62	\$8.15	\$6.66	\$0.00	\$41.43
5	70	\$28.67	\$8.15	\$17.78	\$0.00	\$54.60
6	75	\$30.72	\$8.15	\$18.29	\$0.00	\$57.16
7	80	\$32.77	\$8.15	\$18.80	\$0.00	\$59.72
8	90	\$36.86	\$8.15	\$19.83	\$0.00	\$64.84

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	01/01/2019	\$37.92	\$8.15	\$20.85	\$0.00	\$66.92
PAINTERS LOCAL 35 - ZONE 2	07/01/2019	\$39.02	\$8.15	\$20.85	\$0.00	\$68.02
	01/01/2020	\$40.12	\$8.15	\$20.85	\$0.00	\$69.12
	07/01/2020	\$41.22	\$8.15	\$20.85	\$0.00	\$70.22
	01/01/2021	\$42.32	\$8.15	\$20.85	\$0.00	\$71.32

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.96	\$8.15	\$0.00	\$0.00	\$27.11
2	55	\$20.86	\$8.15	\$5.64	\$0.00	\$34.65
3	60	\$22.75	\$8.15	\$6.15	\$0.00	\$37.05
4	65	\$24.65	\$8.15	\$6.66	\$0.00	\$39.46
5	70	\$26.54	\$8.15	\$17.78	\$0.00	\$52.47
6	75	\$28.44	\$8.15	\$18.29	\$0.00	\$54.88
7	80	\$30.34	\$8.15	\$18.80	\$0.00	\$57.29
8	90	\$34.13	\$8.15	\$19.83	\$0.00	\$62.11

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.51	\$8.15	\$0.00	\$0.00	\$27.66
2	55	\$21.46	\$8.15	\$5.64	\$0.00	\$35.25
3	60	\$23.41	\$8.15	\$6.15	\$0.00	\$37.71
4	65	\$25.36	\$8.15	\$6.66	\$0.00	\$40.17
5	70	\$27.31	\$8.15	\$17.78	\$0.00	\$53.24
6	75	\$29.27	\$8.15	\$18.29	\$0.00	\$55.71
7	80	\$31.22	\$8.15	\$18.80	\$0.00	\$58.17
8	90	\$35.12	\$8.15	\$19.83	\$0.00	\$63.10

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PANEL & PICKUP TRUCKS DRIVER
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B

12/01/2018	\$33.08	\$11.91	\$12.70	\$0.00	\$57.69
06/01/2019	\$34.08	\$11.91	\$12.70	\$0.00	\$58.69
08/01/2019	\$34.08	\$12.41	\$12.70	\$0.00	\$59.19
12/01/2019	\$34.08	\$12.41	\$13.72	\$0.00	\$60.21
06/01/2020	\$34.98	\$12.41	\$13.72	\$0.00	\$61.11
08/01/2020	\$34.98	\$12.91	\$13.72	\$0.00	\$61.61
12/01/2020	\$34.98	\$12.91	\$14.82	\$0.00	\$62.71
06/01/2021	\$35.78	\$12.91	\$14.82	\$0.00	\$63.51
08/01/2021	\$35.78	\$13.41	\$14.82	\$0.00	\$64.01
12/01/2021	\$35.78	\$13.41	\$16.01	\$0.00	\$65.20

PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND
DECK)

PILE DRIVER LOCAL 56 (ZONE 1)

For apprentice rates see "Apprentice- PILE DRIVER"

PILE DRIVER

PILE DRIVER LOCAL 56 (ZONE 1)

08/01/2018	\$46.57	\$9.90	\$21.15	\$0.00	\$77.62
08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99
08/01/2018	\$46.57	\$9.90	\$21.15	\$0.00	\$77.62
08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - PILE DRIVER - Local 56 Zone 1
Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.29	\$9.90	\$21.15	\$0.00	\$54.34
2	60	\$27.94	\$9.90	\$21.15	\$0.00	\$58.99
3	70	\$32.60	\$9.90	\$21.15	\$0.00	\$63.65
4	75	\$34.93	\$9.90	\$21.15	\$0.00	\$65.98
5	80	\$37.26	\$9.90	\$21.15	\$0.00	\$68.31
6	80	\$37.26	\$9.90	\$21.15	\$0.00	\$68.31
7	90	\$41.91	\$9.90	\$21.15	\$0.00	\$72.96
8	90	\$41.91	\$9.90	\$21.15	\$0.00	\$72.96

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.47	\$9.90	\$21.15	\$0.00	\$55.52
2	60	\$29.36	\$9.90	\$21.15	\$0.00	\$60.41
3	70	\$34.26	\$9.90	\$21.15	\$0.00	\$65.31
4	75	\$36.71	\$9.90	\$21.15	\$0.00	\$67.76
5	80	\$39.15	\$9.90	\$21.15	\$0.00	\$70.20
6	80	\$39.15	\$9.90	\$21.15	\$0.00	\$70.20
7	90	\$44.05	\$9.90	\$21.15	\$0.00	\$75.10
8	90	\$44.05	\$9.90	\$21.15	\$0.00	\$75.10

Notes:
Apprentice to Journeyworker Ratio:1:5
PIPEFITTER & STEAMFITTER
PIPEFITTERS LOCAL 537

03/01/2019	\$53.19	\$10.95	\$19.74	\$0.00	\$83.88
09/01/2019	\$54.69	\$10.95	\$19.74	\$0.00	\$85.38
03/01/2020	\$56.19	\$10.95	\$19.74	\$0.00	\$86.88
09/01/2020	\$57.69	\$10.95	\$19.74	\$0.00	\$88.38
03/01/2021	\$59.19	\$10.95	\$19.74	\$0.00	\$89.88

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - PIPEFITTER - Local 537

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$21.28	\$10.95	\$8.00	\$0.00	\$40.23
2	45	\$23.94	\$10.95	\$19.74	\$0.00	\$54.63
3	60	\$31.91	\$10.95	\$19.74	\$0.00	\$62.60
4	70	\$37.23	\$10.95	\$19.74	\$0.00	\$67.92
5	80	\$42.55	\$10.95	\$19.74	\$0.00	\$73.24

Effective Date - 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$21.88	\$10.95	\$8.00	\$0.00	\$40.83
2	45	\$24.61	\$10.95	\$19.74	\$0.00	\$55.30
3	60	\$32.81	\$10.95	\$19.74	\$0.00	\$63.50
4	70	\$38.28	\$10.95	\$19.74	\$0.00	\$68.97
5	80	\$43.75	\$10.95	\$19.74	\$0.00	\$74.44

Notes:

** 1:3; 3:15; 1:10 thereafter / Steps are 1 yr.

Refrig/AC Mechanic **1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:17;9:20;10:23(Max)

Apprentice to Journeyworker Ratio:**

PIPELAYER	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
LABORERS - ZONE 2	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
PLUMBERS & GASFITTERS	03/01/2019	\$56.69	\$11.82	\$16.51	\$0.00	\$85.02
PLUMBERS & GASFITTERS LOCAL 12	09/01/2019	\$58.19	\$11.82	\$16.51	\$0.00	\$86.52
	03/01/2020	\$59.69	\$11.82	\$16.51	\$0.00	\$88.02
	09/01/2020	\$61.19	\$11.82	\$16.51	\$0.00	\$89.52
	03/01/2021	\$62.69	\$11.82	\$16.51	\$0.00	\$91.02

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PLUMBER/GASFITTER - Local 12

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$19.84	\$11.82	\$5.98	\$0.00	\$37.64
2	40	\$22.68	\$11.82	\$6.79	\$0.00	\$41.29
3	55	\$31.18	\$11.82	\$9.25	\$0.00	\$52.25
4	65	\$36.85	\$11.82	\$10.85	\$0.00	\$59.52
5	75	\$42.52	\$11.82	\$12.50	\$0.00	\$66.84

Effective Date - 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$20.37	\$11.82	\$5.98	\$0.00	\$38.17
2	40	\$23.28	\$11.82	\$6.79	\$0.00	\$41.89
3	55	\$32.00	\$11.82	\$9.25	\$0.00	\$53.07
4	65	\$37.82	\$11.82	\$10.85	\$0.00	\$60.49
5	75	\$43.64	\$11.82	\$12.50	\$0.00	\$67.96

Notes:

** 1:2; 2:6; 3:10; 4:14; 5:19/Steps are 1 yr
Step4 with lic\$63.17, Step5 with lic\$70.47

Apprentice to Journeyworker Ratio:**

PNEUMATIC CONTROLS (TEMP.)
PIPEFITTERS LOCAL 537

03/01/2019	\$53.19	\$10.95	\$19.74	\$0.00	\$83.88
09/01/2019	\$54.69	\$10.95	\$19.74	\$0.00	\$85.38
03/01/2020	\$56.19	\$10.95	\$19.74	\$0.00	\$86.88
09/01/2020	\$57.69	\$10.95	\$19.74	\$0.00	\$88.38
03/01/2021	\$59.17	\$10.95	\$19.74	\$0.00	\$89.86

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

PNEUMATIC DRILL/TOOL OPERATOR
LABORERS - ZONE 2

12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

POWDERMAN & BLASTER
LABORERS - ZONE 2

12/01/2018	\$34.52	\$7.85	\$14.44	\$0.00	\$56.81
06/01/2019	\$35.39	\$7.85	\$14.44	\$0.00	\$57.68
12/01/2019	\$36.25	\$7.85	\$14.44	\$0.00	\$58.54
06/01/2020	\$37.14	\$7.85	\$14.44	\$0.00	\$59.43
12/01/2020	\$38.03	\$7.85	\$14.44	\$0.00	\$60.32
06/01/2021	\$38.95	\$7.85	\$14.44	\$0.00	\$61.24
12/01/2021	\$39.86	\$7.85	\$14.44	\$0.00	\$62.15

For apprentice rates see "Apprentice- LABORER"

ate: 03/11/2019

Wage Request Number: 20190311-007

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$32.03	\$11.50	\$15.60	\$0.00	\$59.13
	06/01/2019	\$32.78	\$11.50	\$15.60	\$0.00	\$59.88
	12/01/2019	\$33.57	\$11.50	\$15.60	\$0.00	\$60.67
	06/01/2020	\$34.32	\$11.50	\$15.60	\$0.00	\$61.42
	12/01/2020	\$35.10	\$11.50	\$15.60	\$0.00	\$62.20
	06/01/2021	\$35.85	\$11.50	\$15.60	\$0.00	\$62.95
	12/01/2021	\$36.64	\$11.50	\$15.60	\$0.00	\$63.74
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY MIX CONCRETE DRIVERS after 4/30/10 (Drivers Hired After 4/30/2010) <i>TEAMSTERS LOCAL 25c</i>	07/01/2017	\$28.18	\$8.48	\$9.72	\$0.00	\$46.38
READY-MIX CONCRETE DRIVER <i>TEAMSTERS LOCAL 25c</i>	07/01/2017	\$29.48	\$8.48	\$9.72	\$0.00	\$47.68
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ROLLER/SPREADER/MULCHING MACHINE OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofg) ROOFERS LOCAL 33	02/01/2019	\$43.36	\$11.50	\$15.90	\$0.00	\$70.76

Apprentice - ROOFER - Local 33

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.68	\$11.50	\$3.69	\$0.00	\$36.87
2	60	\$26.02	\$11.50	\$15.90	\$0.00	\$53.42
3	65	\$28.18	\$11.50	\$15.90	\$0.00	\$55.58
4	75	\$32.52	\$11.50	\$15.90	\$0.00	\$59.92
5	85	\$36.86	\$11.50	\$15.90	\$0.00	\$64.26

Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1
Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.
(Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

Apprentice to Journeyworker Ratio:**

ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 33	02/01/2019	\$43.61	\$11.50	\$15.90	\$0.00	\$71.01
For apprentice rates see "Apprentice- ROOFER"						
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 17 - A	02/01/2019	\$46.50	\$13.20	\$24.12	\$2.52	\$86.34
	08/01/2019	\$48.10	\$13.20	\$24.12	\$2.56	\$87.98
	02/01/2020	\$49.75	\$13.20	\$24.12	\$2.61	\$89.68
	08/01/2020	\$51.35	\$13.20	\$24.12	\$2.66	\$91.33
	02/01/2021	\$53.00	\$13.20	\$24.12	\$2.71	\$93.03
	08/01/2021	\$54.75	\$13.20	\$24.12	\$2.76	\$94.83
	02/01/2022	\$56.50	\$13.20	\$24.12	\$2.81	\$96.63

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - SHEET METAL WORKER - Local 17-A

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$19.53	\$13.20	\$5.89	\$0.00	\$38.62
2	42	\$19.53	\$13.20	\$5.89	\$0.00	\$38.62
3	47	\$21.86	\$13.20	\$11.13	\$1.39	\$47.58
4	47	\$21.86	\$13.20	\$11.13	\$1.39	\$47.58
5	52	\$24.18	\$13.20	\$12.08	\$1.48	\$50.94
6	52	\$24.18	\$13.20	\$12.33	\$1.49	\$51.20
7	60	\$27.90	\$13.20	\$13.70	\$1.64	\$56.44
8	65	\$30.23	\$13.20	\$14.65	\$1.74	\$59.82
9	75	\$34.88	\$13.20	\$16.56	\$1.94	\$66.58
10	85	\$39.53	\$13.20	\$17.96	\$2.12	\$72.81

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$20.20	\$13.20	\$5.89	\$0.00	\$39.29
2	42	\$20.20	\$13.20	\$5.89	\$0.00	\$39.29
3	47	\$22.61	\$13.20	\$11.13	\$1.41	\$48.35
4	47	\$22.61	\$13.20	\$11.13	\$1.41	\$48.35
5	52	\$25.01	\$13.20	\$12.08	\$1.51	\$51.80
6	52	\$25.01	\$13.20	\$12.33	\$1.52	\$52.06
7	60	\$28.86	\$13.20	\$13.70	\$1.67	\$57.43
8	65	\$31.27	\$13.20	\$14.65	\$1.77	\$60.89
9	75	\$36.08	\$13.20	\$16.56	\$1.98	\$67.82
10	85	\$40.89	\$13.20	\$17.96	\$2.16	\$74.21

Notes:

Steps are 6 mos.

Apprentice to Journeyworker Ratio:1:4

SIGN ERECTOR
PAINTERS LOCAL 35 - ZONE 2

06/01/2013 \$25.81 \$7.07 \$7.05 \$0.00 \$39.93

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - SIGN ERECTOR - Local 35 Zone 2

Effective Date - 06/01/2013

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$12.91	\$7.07	\$0.00	\$0.00	\$19.98
2	55	\$14.20	\$7.07	\$2.45	\$0.00	\$23.72
3	60	\$15.49	\$7.07	\$2.45	\$0.00	\$25.01
4	65	\$16.78	\$7.07	\$2.45	\$0.00	\$26.30
5	70	\$18.07	\$7.07	\$7.05	\$0.00	\$32.19
6	75	\$19.36	\$7.07	\$7.05	\$0.00	\$33.48
7	80	\$20.65	\$7.07	\$7.05	\$0.00	\$34.77
8	85	\$21.94	\$7.07	\$7.05	\$0.00	\$36.06
9	90	\$23.23	\$7.07	\$7.05	\$0.00	\$37.35

Notes:

Steps are 4 mos.

Apprentice to Journeyworker Ratio:1:1

SPECIALIZED EARTH MOVING EQUIP < 35 TONS
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B

12/01/2018	\$33.54	\$11.91	\$12.70	\$0.00	\$58.15
06/01/2019	\$34.54	\$11.91	\$12.70	\$0.00	\$59.15
08/01/2019	\$34.54	\$12.41	\$12.70	\$0.00	\$59.65
12/01/2019	\$34.54	\$12.41	\$13.72	\$0.00	\$60.67
06/01/2020	\$35.44	\$12.41	\$13.72	\$0.00	\$61.57
08/01/2020	\$35.44	\$12.91	\$13.72	\$0.00	\$62.07
12/01/2020	\$35.44	\$12.91	\$14.82	\$0.00	\$63.17
06/01/2021	\$36.24	\$12.91	\$14.82	\$0.00	\$63.97
08/01/2021	\$36.24	\$13.41	\$14.82	\$0.00	\$64.47
12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66

SPECIALIZED EARTH MOVING EQUIP > 35 TONS
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B

12/01/2018	\$33.83	\$11.91	\$12.70	\$0.00	\$58.44
06/01/2019	\$34.83	\$11.91	\$12.70	\$0.00	\$59.44
08/01/2019	\$34.83	\$12.41	\$12.70	\$0.00	\$59.94
12/01/2019	\$34.83	\$12.41	\$13.72	\$0.00	\$60.96
06/01/2020	\$35.73	\$12.41	\$13.72	\$0.00	\$61.86
08/01/2020	\$35.73	\$12.91	\$13.72	\$0.00	\$62.36
12/01/2020	\$35.73	\$12.91	\$14.82	\$0.00	\$63.46
06/01/2021	\$36.53	\$12.91	\$14.82	\$0.00	\$64.26
08/01/2021	\$36.53	\$13.41	\$14.82	\$0.00	\$64.76
12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95

SPRINKLER FITTER

SPRINKLER FITTERS LOCAL 550 - (Section A) Zone 1

03/01/2019	\$58.98	\$9.47	\$19.60	\$0.00	\$88.05
10/01/2019	\$60.48	\$9.47	\$19.60	\$0.00	\$89.55
03/01/2020	\$61.98	\$9.47	\$19.60	\$0.00	\$91.05
10/01/2020	\$63.48	\$9.47	\$19.60	\$0.00	\$92.55
03/01/2021	\$64.98	\$9.47	\$19.60	\$0.00	\$94.05

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SPRINKLER FITTER - Local 550 (Section A) Zone 1

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$20.64	\$9.47	\$9.10	\$0.00	\$39.21
2	40	\$23.59	\$9.47	\$9.10	\$0.00	\$42.16
3	45	\$26.54	\$9.47	\$9.10	\$0.00	\$45.11
4	50	\$29.49	\$9.47	\$9.10	\$0.00	\$48.06
5	55	\$32.44	\$9.47	\$9.10	\$0.00	\$51.01
6	60	\$35.39	\$9.47	\$10.60	\$0.00	\$55.46
7	65	\$38.34	\$9.47	\$10.60	\$0.00	\$58.41
8	70	\$41.29	\$9.47	\$10.60	\$0.00	\$61.36
9	75	\$44.24	\$9.47	\$10.60	\$0.00	\$64.31
10	80	\$47.18	\$9.47	\$10.60	\$0.00	\$67.25

Effective Date - 10/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$21.17	\$9.47	\$9.10	\$0.00	\$39.74
2	40	\$24.19	\$9.47	\$9.10	\$0.00	\$42.76
3	45	\$27.22	\$9.47	\$9.10	\$0.00	\$45.79
4	50	\$30.24	\$9.47	\$9.10	\$0.00	\$48.81
5	55	\$33.26	\$9.47	\$9.10	\$0.00	\$51.83
6	60	\$36.29	\$9.47	\$10.60	\$0.00	\$56.36
7	65	\$39.31	\$9.47	\$10.60	\$0.00	\$59.38
8	70	\$42.34	\$9.47	\$10.60	\$0.00	\$62.41
9	75	\$45.36	\$9.47	\$10.60	\$0.00	\$65.43
10	80	\$48.38	\$9.47	\$10.60	\$0.00	\$68.45

Notes: Apprentice entered prior 9/30/10:
40/45/50/55/60/65/70/75/80/85
Steps are 850 hours

Apprentice to Journeyworker Ratio:1:3

STEAM BOILER OPERATOR
OPERATING ENGINEERS LOCAL 4

12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 103	03/01/2019	\$38.33	\$13.00	\$16.82	\$0.00	\$68.15

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$15.33	\$13.00	\$0.46	\$0.00	\$28.79
2	40	\$15.33	\$13.00	\$0.46	\$0.00	\$28.79
3	45	\$17.25	\$13.00	\$13.42	\$0.00	\$43.67
4	45	\$17.25	\$13.00	\$13.42	\$0.00	\$43.67
5	50	\$19.17	\$13.00	\$13.73	\$0.00	\$45.90
6	55	\$21.08	\$13.00	\$14.03	\$0.00	\$48.11
7	60	\$23.00	\$13.00	\$14.34	\$0.00	\$50.34
8	65	\$24.91	\$13.00	\$14.66	\$0.00	\$52.57
9	70	\$26.83	\$13.00	\$14.96	\$0.00	\$54.79
10	75	\$28.75	\$13.00	\$15.27	\$0.00	\$57.02

Notes:

Apprentice to Journeyworker Ratio:1:1

TERRAZZO FINISHERS BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2019	\$52.49	\$10.75	\$20.66	\$0.00	\$83.90
	08/01/2019	\$53.84	\$10.75	\$20.80	\$0.00	\$85.39
	02/01/2020	\$54.48	\$10.75	\$20.80	\$0.00	\$86.03
	08/01/2020	\$55.83	\$10.75	\$20.95	\$0.00	\$87.53
	02/01/2021	\$56.47	\$10.75	\$20.95	\$0.00	\$88.17
	08/01/2021	\$57.87	\$10.75	\$21.11	\$0.00	\$89.73
	02/01/2022	\$58.46	\$10.75	\$21.11	\$0.00	\$90.32

Classification

Effective Date Base Wage Health Pension Supplemental
Unemployment Total Rate

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.25	\$10.75	\$20.03	\$0.00	\$57.03
2	60	\$31.49	\$10.75	\$20.03	\$0.00	\$62.27
3	70	\$36.74	\$10.75	\$20.03	\$0.00	\$67.52
4	80	\$41.99	\$10.75	\$20.03	\$0.00	\$72.77
5	90	\$47.24	\$10.75	\$20.03	\$0.00	\$78.02

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.92	\$10.75	\$20.80	\$0.00	\$58.47
2	60	\$32.30	\$10.75	\$20.80	\$0.00	\$63.85
3	70	\$37.69	\$10.75	\$20.80	\$0.00	\$69.24
4	80	\$43.07	\$10.75	\$20.80	\$0.00	\$74.62
5	90	\$48.46	\$10.75	\$20.80	\$0.00	\$80.01

Notes:

Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER	12/01/2018	\$40.00	\$7.85	\$15.55	\$0.00	\$63.40
LABORERS - FOUNDATION AND MARINE	06/01/2019	\$41.00	\$7.85	\$15.55	\$0.00	\$64.40
	12/01/2019	\$42.00	\$7.85	\$15.55	\$0.00	\$65.40
	06/01/2020	\$42.99	\$7.85	\$15.55	\$0.00	\$66.39
	12/01/2020	\$43.97	\$7.85	\$15.55	\$0.00	\$67.37
	06/01/2021	\$44.99	\$7.85	\$15.55	\$0.00	\$68.39
	12/01/2021	\$46.00	\$7.85	\$15.55	\$0.00	\$69.40

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER	12/01/2018	\$38.72	\$7.85	\$15.55	\$0.00	\$62.12
LABORERS - FOUNDATION AND MARINE	06/01/2019	\$39.72	\$7.85	\$15.55	\$0.00	\$63.12
	12/01/2019	\$40.72	\$7.85	\$15.55	\$0.00	\$64.12
	06/01/2020	\$41.71	\$7.85	\$15.55	\$0.00	\$65.11
	12/01/2020	\$42.69	\$7.85	\$15.55	\$0.00	\$66.09
	06/01/2021	\$43.71	\$7.85	\$15.55	\$0.00	\$67.11
	12/01/2021	\$44.72	\$7.85	\$15.55	\$0.00	\$68.12

For apprentice rates see "Apprentice- LABORER"

TEST BORING LABORER	12/01/2018	\$38.60	\$7.85	\$15.55	\$0.00	\$62.00
LABORERS - FOUNDATION AND MARINE	06/01/2019	\$39.60	\$7.85	\$15.55	\$0.00	\$63.00
	12/01/2019	\$40.60	\$7.85	\$15.55	\$0.00	\$64.00
	06/01/2020	\$41.59	\$7.85	\$15.55	\$0.00	\$64.99
	12/01/2020	\$42.57	\$7.85	\$15.55	\$0.00	\$65.97
	06/01/2021	\$43.59	\$7.85	\$15.55	\$0.00	\$66.99
	12/01/2021	\$44.60	\$7.85	\$15.55	\$0.00	\$68.00

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$34.12	\$11.91	\$12.70	\$0.00	\$58.73
	06/01/2019	\$35.12	\$11.91	\$12.70	\$0.00	\$59.73
	08/01/2019	\$35.12	\$12.41	\$12.70	\$0.00	\$60.23
	12/01/2019	\$35.12	\$12.41	\$13.72	\$0.00	\$61.25
	06/01/2020	\$36.02	\$12.41	\$13.72	\$0.00	\$62.15
	08/01/2020	\$36.02	\$12.91	\$13.72	\$0.00	\$62.65
	12/01/2020	\$36.02	\$12.91	\$14.82	\$0.00	\$63.75
	06/01/2021	\$36.82	\$12.91	\$14.82	\$0.00	\$64.55
	08/01/2021	\$36.82	\$13.41	\$14.82	\$0.00	\$65.05
	12/01/2021	\$36.82	\$13.41	\$16.01	\$0.00	\$66.24
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2018	\$50.88	\$7.85	\$15.95	\$0.00	\$74.68
	06/01/2019	\$51.88	\$7.85	\$15.95	\$0.00	\$75.68
	12/01/2019	\$52.88	\$7.85	\$15.95	\$0.00	\$76.68
	06/01/2020	\$53.87	\$7.85	\$15.95	\$0.00	\$77.67
	12/01/2020	\$54.85	\$7.85	\$15.95	\$0.00	\$78.65
	06/01/2021	\$55.87	\$7.85	\$15.95	\$0.00	\$79.67
	12/01/2021	\$56.88	\$7.85	\$15.95	\$0.00	\$80.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2018	\$52.88	\$7.85	\$15.95	\$0.00	\$76.68
	06/01/2019	\$53.88	\$7.85	\$15.95	\$0.00	\$77.68
	12/01/2019	\$54.88	\$7.85	\$15.95	\$0.00	\$78.68
	06/01/2020	\$55.87	\$7.85	\$15.95	\$0.00	\$79.67
	12/01/2020	\$56.85	\$7.85	\$15.95	\$0.00	\$80.65
	06/01/2021	\$57.87	\$7.85	\$15.95	\$0.00	\$81.67
	12/01/2021	\$58.88	\$7.85	\$15.95	\$0.00	\$82.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2018	\$42.95	\$7.85	\$15.95	\$0.00	\$66.75
	06/01/2019	\$43.95	\$7.85	\$15.95	\$0.00	\$67.75
	12/01/2019	\$44.95	\$7.85	\$15.95	\$0.00	\$68.75
	06/01/2020	\$45.94	\$7.85	\$15.95	\$0.00	\$69.74
	12/01/2020	\$46.92	\$7.85	\$15.95	\$0.00	\$70.72
	06/01/2021	\$47.94	\$7.85	\$15.95	\$0.00	\$71.74
	12/01/2021	\$48.95	\$7.85	\$15.95	\$0.00	\$72.75
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR (HAZ. WASTE) LABORERS (FREE AIR TUNNEL)	12/01/2018	\$44.95	\$7.85	\$15.95	\$0.00	\$68.75
	06/01/2019	\$45.95	\$7.85	\$15.95	\$0.00	\$69.75
	12/01/2019	\$46.95	\$7.85	\$15.95	\$0.00	\$70.75
	06/01/2020	\$47.94	\$7.85	\$15.95	\$0.00	\$71.74
	12/01/2020	\$48.92	\$7.85	\$15.95	\$0.00	\$72.72
	06/01/2021	\$49.94	\$7.85	\$15.95	\$0.00	\$73.74
	12/01/2021	\$50.95	\$7.85	\$15.95	\$0.00	\$74.75
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2018	\$33.54	\$11.91	\$12.70	\$0.00	\$58.15
	06/01/2019	\$34.54	\$11.91	\$12.70	\$0.00	\$59.15
	08/01/2019	\$34.54	\$12.41	\$12.70	\$0.00	\$59.65
	12/01/2019	\$34.54	\$12.41	\$13.72	\$0.00	\$60.67
	06/01/2020	\$35.44	\$12.41	\$13.72	\$0.00	\$61.57
	08/01/2020	\$35.44	\$12.91	\$13.72	\$0.00	\$62.07
	12/01/2020	\$35.44	\$12.91	\$14.82	\$0.00	\$63.17
	06/01/2021	\$36.24	\$12.91	\$14.82	\$0.00	\$63.97
	08/01/2021	\$36.24	\$13.41	\$14.82	\$0.00	\$64.47
	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
WAGON DRILL OPERATOR LABORERS - ZONE 2	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
WASTE WATER PUMP OPERATOR OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER PLUMBERS & GASFITTERS LOCAL 12	03/01/2019	\$56.69	\$11.82	\$16.51	\$0.00	\$85.02
	09/01/2019	\$58.19	\$11.82	\$16.51	\$0.00	\$86.52
	03/01/2020	\$59.69	\$11.82	\$16.51	\$0.00	\$88.02
	09/01/2020	\$61.19	\$11.82	\$16.51	\$0.00	\$89.52
	03/01/2021	\$62.69	\$11.82	\$16.51	\$0.00	\$91.02
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						
Outside Electrical - East CABLE TECHNICIAN (Power Zone) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$27.14	\$7.75	\$1.81	\$0.00	\$36.70
For apprentice rates see "Apprentice- LINEMAN" CABLEMAN (Underground Ducts & Cables) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$38.45	\$7.75	\$9.53	\$0.00	\$55.73
For apprentice rates see "Apprentice- LINEMAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DRIVER / GROUNDMAN CDL OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$31.66	\$7.75	\$9.44	\$0.00	\$48.85
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN -Inexperienced (<2000 Hrs) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class A CDL) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$38.45	\$7.75	\$13.61	\$0.00	\$59.81
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class B CDL) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$33.92	\$7.75	\$10.21	\$0.00	\$51.88
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN -Inexperienced (<2000 Hrs.) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$20.35	\$7.75	\$1.61	\$0.00	\$29.71
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	09/03/2017	\$45.23	\$7.75	\$16.61	\$0.00	\$69.59

Apprentice - LINEMAN (Outside Electrical) - East Local 104

Effective Date -	Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
09/03/2017							
	1	60	\$27.14	\$7.75	\$3.31	\$0.00	\$38.20
	2	65	\$29.40	\$7.75	\$3.38	\$0.00	\$40.53
	3	70	\$31.66	\$7.75	\$3.45	\$0.00	\$42.86
	4	75	\$33.92	\$7.75	\$5.02	\$0.00	\$46.69
	5	80	\$36.18	\$7.75	\$5.09	\$0.00	\$49.02
	6	85	\$38.45	\$7.75	\$5.15	\$0.00	\$51.35
	7	90	\$40.71	\$7.75	\$7.22	\$0.00	\$55.68

Notes:

Apprentice to Journeyworker Ratio:1:2

TELEDATA CABLE SPLICER OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	02/04/2019	\$30.73	\$4.70	\$3.17	\$0.00	\$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TREE TRIMMER OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	01/31/2016	\$16.32	\$3.55	\$0.00	\$0.00	\$19.87

Issue Date: 03/11/2019

Wage Request Number: 20190311-007

Page 40 of

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						

Additional Apprentice Information:

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

All steps are six months (1000 hours.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

** Multiple ratios are listed in the comment field.

*** APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

**** APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.



Department of Labor Standards

Prevailing Wage Program

Confirmation

Your request for an Official Prevailing Wage Schedule has been successfully received and is being processed by DLS. The schedule will be emailed to the email address provided in your request.
Please note the wage request number **20190311-007** for future inquiries.

[Request another official Wage Schedule](#)

[Return to Prevailing Wage Website](#)

3/11/2019

Request Official Wage Schedule
Website

<http://prevailingwage.detma.org/WageRequest.aspx?wr=121>

Appendix 10
FORM OF CONTRACT
(SEE ATTACHED DOCUMENT.)

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

This Contract is made this _____ day of _____, 2019, by and between the Town of Natick, Massachusetts, with an address of Natick Town Hall, 13 East Central Street, Natick, MA 01760, acting by the Natick Board of Selectmen (hereinafter the "Town of Natick," the "Town," or the "Owner"), and _____, a corporation organized under the laws of the _____, with a principal office located at _____ (hereinafter the "Contractor").

The words "he," "him" and "his" in this Contract, as far as they refer to the Contractor, shall so refer whether the Contractor is an individual, partnership or corporation. All prior contracts regarding the Scope of Services outlined in paragraph 1, below, if any exist between the Town and the Contractor regarding the subject matter of this Contract, are hereby terminated and shall be of no force and effect.

1. **Scope of Services**

In consideration of the obligations herein contained, the Contractor shall provide construction services related to the installation of a dog park in the Town of Natick, as described in the Invitation for Bids for Construction Services Related to the Installation of a Dog Park in the Town of Natick ("IFB"), issued by the Board of Selectmen of the Town of Natick, Massachusetts, which is incorporated herein by reference.

2. **Standard of Care**

The Contractor's services shall be performed as expeditiously as is consistent with professional skill and care and the orderly progress of the work. The Contractor shall exercise due care and diligence in the rendition of all services under this Contract in accordance with the applicable professional standards in the Eastern Massachusetts area.

3. **Term**

The term of this Contract shall commence as of the date specified in the opening paragraph written above, and shall end one (1) year later. Time is of the essence in the performance of services rendered by the Contractor under this Contract.

4. **Incorporation of the Invitation for Bids/Order of Priority of Contract Documents**

The provisions of the IFB and the Contractor's Bid are incorporated herein by reference. In the event of any conflict among the Contract Documents, the Documents shall be construed according to the following priorities:

Highest Priority: Amendments to Contract (if any)

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

Second Priority:	Contract
Third Priority:	Addenda to the IFB (if any)
Fourth Priority:	IFB
Fifth Priority:	Contractor's Bid.

5. Payment

In consideration for performance of the work in accordance with the requirements of this Contract, and in accordance with M.G.L. c.30, §39G, the Town shall pay the Contractor the prices set forth in the Contractor's Bid, a copy of which is attached hereto and incorporated by reference.

This Contract is a fixed price/fixed rate contract; and, therefore, miscellaneous expenditures associated with the Contractor's work on this project shall not be paid by the Town. In the event that an unforeseen miscellaneous expense is incurred, the Contractor shall receive the Town's approval in writing prior to incurring the expense if it will subsequently seek payment of said expense from the Town.

Payment shall be made to the Contractor for work completed in accordance with this Contract. All requests for payment shall be submitted to the Town as an invoice and shall specify work completed, progress made toward completing deliverables, the number of hours worked, the classification of each employee who performed work, and the billing rate for each employee who performed work on the project.

Payment will be due thirty (30) days after receipt of the Contractor's invoice by the Town for services rendered in accordance with this Contract. The Town shall not make payments in advance.

If the Town objects to all or part of any invoice, the Town shall notify the Contractor in writing within two (2) weeks of the date of receipt of the invoice, and shall pay that portion of the invoice not in dispute within thirty (30) days after the date of receipt of the invoice.

Should it be necessary for the Contractor to engage the services of a specialized contractor or companies other than those originally proposed in the Contractor's response to the Town's Invitation for Bids, the Contractor shall take such measures only with the Town's prior written approval. Charges for such services shall be billed directly to the Town unless otherwise agreed upon by the parties.

Payment of the amounts due under this Contract shall release the Town of Natick, Massachusetts and its officers, employees, boards, commissions, committees, agents and representatives, from any and all claims and liability in any way relating to this Contract or anything done in pursuance thereof.

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

No payment by the Town to the Contractor shall be deemed to be a waiver of any right of the Town under this Contract or a ratification by the Town of any breach hereof by the Contractor.

6. **Warranty**

Any equipment delivered, unless otherwise agreed by the parties, shall be of generally merchantable quality and shall be fit for the purpose sought by the Town of Natick. Any equipment shall be warrantied against manufacturing and design defect for a minimum of three (3) years after the Town's acceptance of the same. All manufacturers' warranties on any equipment delivered shall be assigned to the Town of Natick.

7. **Compliance with Laws**

The Contractor shall comply with all provisions of Federal, Massachusetts and Town of Natick law applicable to his work including, without limitation, statutes, by-laws, rules, regulations, orders and directives, as amended, and including, without limitation, the Williams-Steiger Occupational Safety and Health Act of 1970, as amended, and related regulations, as amended, in effect throughout the term of this Contract and any extension or renewal thereof. Without limitation, the Contractor shall comply with the provisions of Chapter 149, Section 26 to 27D of the Massachusetts General Laws, as amended, and the applicable minimum wage rates as determined by the Massachusetts Commissioner of Labor and Industries. This Contract shall be considered to include in their entirety all terms respecting workers' compensation insurance and other terms required to be included in it by Chapter 152 of the Massachusetts General Laws, as amended, and applicable provisions of any other laws, including, without limitation, Chapter 30, Sections 39F, 39G, 39K, 39L, 39M, 39N, 39O, 39P, and 39R of the Massachusetts General Laws, as amended, and Chapter 149, Sections 34, 34A, and 34B of the Massachusetts General Laws, as amended, and Chapter 82, Section 40 of the Massachusetts General Laws, as amended, as though such terms were set forth in their entirety herein.

8. **Insurance**

The Contractor shall provide and maintain throughout the term of the Contract and any extension or renewal thereof the following insurance with companies that are authorized and licensed in the Commonwealth of Massachusetts to issue policies for the coverages and limits so required.

- a. Workers' Compensation Insurance as required by the laws of the Commonwealth of Massachusetts and employer's liability insurance in the

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

amount of \$1,000,000/\$1,000,000/\$1,000,000.

- b. Commercial General Liability Insurance, \$1,000,000 each occurrence and \$2,000,000 aggregate limit. Commercial General Liability insurance shall include personal injury liability, broad form property damage liability, products/completed operations liability and broad form contractual liability.
- c. Automobile Liability Insurance, covering all leased, owned, non-owned, and hired vehicles - Combined single limit of \$1,000,000.
- d. Excess Liability Insurance, Umbrella Form - \$1,000,000 each occurrence and \$2,000,000 aggregate, which shall be following form, providing coverage over commercial general liability insurance, automobile liability insurance, and employer's liability under workers' compensation insurance.
- e. The Town of Natick shall be named as an additional insured on each such policy of Commercial General Liability Insurance, Excess Liability Insurance, Umbrella Form, and Automobile Liability Insurance.
- f. All certificates and policies shall contain the following provision:

“Notwithstanding any other provision herein, should any of the above policies be cancelled or materially amended before the expiration date thereof, the issuing company or the Contractor will mail thirty (30) days prior written notice thereof to the named certificate holder and to the Natick Town Administrator, Natick Town Hall, 13 East Central Street, Natick, MA 01760 before such cancellation or amendment shall take place.”
- g. Certificates evidencing such insurance in five (5) copies shall be furnished to the Town at the execution of this Contract. Such certificates shall not merely name the types of policy provided, but shall specifically refer to this Contract and shall state that such insurance is as required by this Contract. The Contractor shall make no claims against the Town of Natick or its officers for any injury to any of its officers or employees or for damage to its equipment arising out of work contemplated by the Contract.
- h. The Contractor shall also be required to provide to the Town of Natick with its proof of insurance coverage endorsements or riders to the policies of commercial general liability insurance, automobile liability insurance, and excess liability insurance, umbrella form, which indicate that the Town of Natick is named as an additional insured on each such policy.

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

- i. No insurance shall be obtained from an insurer which:
 - (1) is not licensed to sell insurance in the Commonwealth of Massachusetts; or
 - (2) is not authorized to provide insurance as an excess or surplus lines insurer, and does not have a current Best's rating of A or better.
- j. Failure to provide and continue in force such insurance as aforesaid shall be deemed a material breach of this Contract and shall operate as an immediate termination thereof.
- k. The Contractor shall provide to the Town a copy of a certificate of insurance that provides evidence of all environmental liability insurance maintained by the Contractor.

9. Indemnification

The Contractor shall compensate the Town of Natick for all damage to Town property of any nature arising out of the Contractor's work. To the fullest extent permitted by law, the Contractor shall indemnify, defend, and hold harmless the Town of Natick and all of its officers, employees, boards, commissions, committees, agents and representatives from and against all claims, causes of action, suits, costs, damages, and liability of any kind which arise out of the breach by the Contractor of its obligations under this Contract, or the act or omission of the Contractor, its subcontractors, or their officers, employees, agents and representatives or anyone directly or indirectly employed by them, or anyone for whose acts or omissions they may be liable, regarding the work to be performed by the Contractor under the Contract, or which arise out of the violation of any federal, Massachusetts or Town of Natick statute, by-law, rule, regulation, order or directive, or which relate to personal injury or property damage suffered by the Contractor or any of its officers or employees regarding the subject matter of this Contract. Said costs shall include, without limitation, reasonable legal costs, collections fees, and counsel fees incurred in defending any claim or suit that may be brought against the Town and any judgment that may be obtained in any such claim or suit.

10. No Personal Liability

Neither the Town of Natick, nor its officers, employees, boards, committees, commissions, agents and representatives shall be under any personal obligation or incur any personal liability by reason of this Contract, the execution thereof or anything relating thereto which arises out of the breach or violation of any provision of this Contract, or the violation of any Federal, Massachusetts or Town of Natick statute, by-law, rule, regulation, order or directive, or which relates to personal

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

injury or property damage suffered by the Contractor or its employees, regarding the subject matter of this Contract.

11. Familiarity with Area of Work

By signing this Contract, the Contractor acknowledges that it has examined the area of work which is the subject matter of this Contract and that it is familiar with all sites which are the subject of this Contract and with all conditions of the IFB and of this Contract. The Contractor has entered into this Contract in reliance on its own examinations and estimates as to the amount and character of its work, and conditions which may be encountered in the performance thereof, and shall assume all risks and bear all losses pertaining thereto.

12. Performance Bond

The Contractor shall furnish to the Town a Performance Bond, in the amount of one hundred percent (100%) of the Contract price, with a surety company which is acceptable to the Town and which is licensed by the Massachusetts Division of Insurance.

13. Labor and Materials Payment Bond

The Contractor shall furnish to the Town a Labor and Materials Payment Bond, in the amount of one hundred percent (100%) of the Contract price, with a surety company which is acceptable to the Town and which is licensed by the Massachusetts Division of Insurance.

14. Independent Contractor Status

The Contractor shall provide services under this Contract as an independent contractor with the Town of Natick and not as an employee of the Town of Natick. No employee, agent or representative of the Contractor shall be entitled to receive any benefits of employment with the Town of Natick, including without limitation salary, overtime, vacation pay, holiday pay, sick leave, health insurance, life insurance, pension or deferred compensation.

15. Use of Alcohol and Controlled and/or Mood Altering Substances Prohibited

The Contractor hereby acknowledges that the use of alcoholic beverages, narcotics, and controlled and/or mood altering substances, except for current valid, legal prescriptions, by any officer, employee, agent, or representative of the Contractor is prohibited on Town of Natick property which is the subject matter of this Contract and during all hours of work under this Contract. If any officer, employee, agent, or representative of the Contractor violates the foregoing

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

provision, the Town of Natick shall have the right to order that such officer, employee, agent, or representative of the Contractor shall not be permitted to return to work on this Contract. Under such circumstances, the Contractor shall promptly remove the subject officer, employee, agent, or representative from the job site and shall not permit the subject officer, employee, agent, or representative to perform further work in conjunction with this Contract.

16. No Smoking

Pursuant to Massachusetts General Laws (M.G.L.) c. 270, §22, the Commonwealth of Massachusetts Smokefree Workplace Law, the Contractor, its officers, employees, agents, and representatives shall refrain from smoking and from using tobacco products in any public building in the Town of Natick.

17. Criminal Background Screening

For each employee of the Contractor who is performing services under this Contract, the Contractor shall, subject to its confidentiality and privacy obligations owing to its employees and third parties, provide a written confirmation to the Town that such employee passed the Contractor's pre-employment criminal background screen. In the event that any employee refuses to permit the Contractor to provide such information to the Town, the Contractor shall not assign such employee to perform services for the Town, and such employee shall not be authorized to perform services for the Town. The Town shall be permitted to keep such information in its files.

18. Delays/*Force Majeure*

Except as specifically set forth in this Contract, neither party shall hold the other responsible or liable for damages or delays in performance caused by acts of God, interruptions in the availability of labor, or other events beyond the control of the other party, or that could not have been reasonably foreseen or prevented. For this purpose, such acts or events shall include unusually severe weather affecting performance of services, floods, epidemics, wars, riots, strikes, lockouts, or other industrial disturbances, protest demonstrations, and project site conditions which could not have been reasonably anticipated. Should such acts or events occur, both parties shall use their best efforts to overcome the difficulties arising and to resume as soon as reasonably possible the normal pursuit of the services for the Project.

19. Termination

- a. If the Contractor shall breach any provision of this Contract, which breach is not cured within twenty-one (21) days of written notice thereof from the

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

Town to the Contractor, the Town shall have the right to terminate this Contract upon written notice to the Contractor.

- b. If any assignment shall be made by the Contractor or by any guarantor of the Contractor for the benefit of creditors, or if a petition is filed by the Contractor or by any guarantor of the Contractor for adjudication as a bankrupt, or for reorganization or an arrangement under any provision of the Bankruptcy Act as then in force and effect, or if an involuntary petition under any of the provisions of the Bankruptcy Act is filed against the Contractor and such involuntary petition is not discharged within ninety (90) days thereafter, in any event the Town may terminate this Contract upon written notice to the Contractor.
- c. The award of this Contract and the continued operation of this Contract are contingent upon appropriation by Natick Town Meeting of sufficient money to fund the Contract. Should Natick Town Meeting fail to appropriate necessary funds therefor, the Town of Natick shall no longer be under any obligation to tender performance, including payment, under the terms of this Contract. In that event the Town may terminate this Contract upon written notice to the Contractor.
- d. The Town may terminate this Contract upon written notice to the Contractor if a source of money to fund the Contract is lost during the Contract term. In the alternative, the parties may agree in writing to amend the Contract to provide for a Contract price which represents a reduced appropriation for the Contract term.
- e. The Town may also terminate this Contract for convenience upon thirty (30) days' written notice to the Contractor.

In the event of termination, the Contractor shall be entitled to be paid for services rendered in accordance with this Contract prior to termination.

In the event that this Contract is terminated pursuant to Section 19a. or 19b. above, the Town may make any reasonable purchase or contract to purchase services in substitution for services due from the Contractor and may deduct the cost of any substitute contract, or damages sustained by the Town due to non-performance or non-conformance of services, together with incidental and consequential damages, from the Contract price, and shall withhold such damages from sums due or sums which become due.

20. Notices

Except as otherwise provided in this Contract, all notices required or permitted to

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

be given hereunder shall be in writing and shall be delivered by certified mail or registered mail, return receipt requested, to the parties at the following address or such other address or addresses as to which a party shall have notified the other party in accordance with this Section.

If to the Town: Melissa A. Malone, Town Administrator
Natick Town Hall
13 East Central Street
Natick, MA 01760

With copies to: Karis L. North, Esq.
Murphy, Hesse, Toomey & Lehane, LLP
300 Crown Colony Drive, Suite 410
Quincy, MA 02169

If to the Contractor:

21. Miscellaneous Provisions

- a. Any action at law or suit in equity instituted by the Contractor as a result of the performance, non-performance or alleged breach of this Contract shall be filed in the Superior Court of the Commonwealth of Massachusetts for Middlesex County, MA, and in no other court or jurisdiction.
- b. No action or failure to act by the Town shall constitute a waiver of a right or duty afforded to the Town under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed in writing. No forbearance or indulgence in any form or manner by the Town shall be construed as a waiver or in any way limit the legal or equitable remedies available to the Town. No waiver by the Town of any default or breach by the Contractor shall constitute a waiver of any subsequent default or breach.
- c. If the Contractor discovers or is informed of any discrepancy or inconsistency in the Contract Documents in relation to any law, statute, ordinance, by-law, decree, code, rule, regulation, or order, the Contractor shall promptly, before commencing services under this Contract, report the same to the Town in writing.
- d. The Contractor acknowledges that it has not been influenced to enter into this Contract, nor has the Contractor relied upon any warranties or representations not set forth in this instrument.

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

- e. The Contractor shall maintain the confidentiality of information designated by the Town as confidential, unless withholding such information would violate the law or create a risk of significant harm to the public, or unless the Contractor has been required to release such information by final judgment or order of a court of competent jurisdiction, or unless the Town has expressly waived such confidentiality in advance in writing.
- f. The Contractor shall not represent or purport to represent that it speaks for the Town vis-à-vis the media or the public at-large without the Town's express, written consent in advance.
- g. Prior to commencing services under this Contract, the Contractor shall furnish the Town, in writing, the names, addresses and telephone numbers of not fewer than two (2) principal employees of his business who are to be contacted in the event of an after-hours emergency.
- h. By entering into this Contract, the Contractor certifies under penalties of perjury that its Bid was made and submitted in good faith and without collusion or fraud with any person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.
- i. By entering into this Contract, the Contractor certifies under the penalties of perjury, pursuant to M.G.L. c.62C, Section 49A(b), that it has complied with all laws of the Commonwealth relating to taxes, to reporting of employees and contractors, and to withholding and remitting child support.
- j. The Contractor understands that the Massachusetts Conflict of Interest Law, Chapter 268A of the Massachusetts General Laws, applies to the Contractor with respect to the services required to be provided under this Contract. The Contractor and its officers, employees, agents, subcontractors and affiliated agencies shall not participate in any activity which constitutes a violation of the Massachusetts Conflict of Interest Law or which creates an appearance of a violation of the Massachusetts Conflict of Interest Law.
- k. Prevailing wage rates, as contained in the Bid documents, shall be paid, pursuant to M.G.L. c.149, §§26-27G, if they are applicable.
- l. The Contractor shall not discriminate against or exclude any person from participation herein on grounds of race, color, religious creed, national

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

origin, sex, gender identity, sexual orientation (which shall not include persons whose sexual orientation involves minor children as the sex object), age, genetic information, ancestry, children, marital status, veteran status or membership in the armed services, the receiving of public assistance, and handicap. The previous sentence shall include, but not be limited to, the following: advertising, recruitment; hiring; rates of pay or other forms of compensation; terms; conditions or privileges of employment; employment upgrading; transfer; demotion; layoff; and termination. The Contractor shall take affirmative actions to insure that applicants are employed, and that employees are treated during their employment, without regard to race, color, religious creed, national origin, sex, gender identity, sexual orientation (which shall not include persons whose sexual orientation involves minor children as the sex object), age, genetic information, ancestry, children, marital status, veteran status or membership in the armed services, the receiving of public assistance, and handicap.

- m. **To the extent that any of the foregoing sections required by Massachusetts law are inconsistent with other, non-statutory sections in this Contract, any statutorily-mandated provisions contained herein shall control.**
- n. The Contractor shall not assign or subcontract in whole or in part this Contract or in any way transfer any interest in this Contract without the prior express written approval of the Town.
- o. The Contractor shall not assign any money due or to become due to the Contractor unless the Town of Natick shall have received prior written notice of such assignment. No such assignment shall relieve the Contractor of its obligations under this Contract.
- p. This Contract may be amended only by written consent of the parties.
- q. This Contract constitutes the entire agreement of the parties and any other agreement, written or oral, that may exist is excluded from this Contract. When executed, this Contract supersedes any other agreement of any of the parties in connection with the transaction contemplated.
- r. The parties agree that the traditional canon of contract interpretation, resolving ambiguities against the drafter of the particular instrument, shall not be employed in construing provisions of this Contract.
- s. If any provision, or portion thereof, of this Contract shall be adjudged to be invalid or unenforceable by final judgment or order of a court of competent

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

jurisdiction the remaining provisions shall continue in effect to the extent permitted by law.

- t. The provisions of this Contract shall be binding upon and shall inure to the benefit of the heirs, assigns and successors in interest of the parties.
- u. This Contract shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, regardless of choice of law issues or principles.
- v. This Contract is executed in triplicate as a sealed instrument.

(The remainder of this page is left intentionally blank.)

Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick

The Town of Natick, Massachusetts
by: the Natick Board of Selectmen

by: _____

Michael J. Hickey, Jr., Chairman

Signature

Susan G. Salamoff, Vice Chairman

Printed Name

Jonathan H. Freedman, Clerk

Printed Title

Karen Adelman-Foster

Richard P. Jennett, Jr.

Dated: _____

Dated: _____

APPROVED AS TO AVAILABILITY OF APPROPRIATION:

In accordance with the requirements of M.G.L. Chapter 44, Section 31C, this is to certify that an appropriation in the amount of this Contract is available therefor, and that the Natick Board of Selectmen is authorized to execute this Contract and to approve all requisitions and execute change orders.

Arti P. Mehta
Comptroller, Town of Natick

Dated: _____

**Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick**

APPROVED AS TO FORM ONLY, AND NOT AS TO SUBSTANCE:

Karis L. North, Esq.

Dated: _____

**Town of Natick, Massachusetts
Contract for Construction Services
Related to the Installation of a Dog Park in the Town of Natick**

CERTIFICATE OF VOTE

I, _____, hereby certify
(Clerk/Secretary)

that I am the duly qualified and acting _____ of
(Title)

(Corporation Name)

and I further certify that at a meeting of the Directors of said Corporation duly called and held on _____ 20 ____, at which meeting all Directors were present and voting, the following vote was unanimously passed:

VOTED: To authorize and empower either _____
_____, _____;
(Name) (Title)
_____, _____; or
(Name) (Title)
_____, _____
(Name) (Title),

any one acting singly, to execute all contracts and bonds on behalf of the Corporation.

I, further certify that the above vote is still in effect on this the ____ day of _____, 20__ and has not been changed or modified in any respect.

Signature

Printed Name

Printed Title

The certification contained hereabove shall be executed by CONTRACTOR or copy of current "certification of authority to sign for the Corporation" shall be attached.)

Technical Specifications

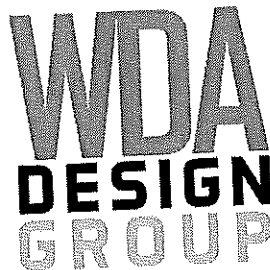
for:

Natick Dog Park
111 West Central Street
Natick, Massachusetts

Project Proponent:

Town of Natick
13 East Central Street
Natick, MA

07/19/2018



31 EAST MAIN STREET WESTBOROUGH, MA 01581 508.366.6552
7 CENTRAL STREET PROVIDENCE, RI 02907 401.274.1360
WDA-DG.com

Table of Contents

SECTION 12 93 00	Site Furnishings
SECTION 32 12 16	Asphalt Paving
SECTION 32 13 13	Concrete Paving
SECTION 32 14 13	Permeable Concrete Pavers
SECTION 32 16 40	Stone Curbs
SECTION 32 17 23.13	Painted Pavement Markings
SECTION 32 17 26	Tactile Warning Surfaces
SECTION 32 31 13	Chain Link Fences and Gates
SECTION 32 90 00	Plantings
SECTION 32 92 00	Turfs and Grasses

END OF SECTION

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

SECTION 12 93 00

SITE FURNISHINGS

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Perform all work required to complete the work of the Section, as indicated. Site furnishings work includes, but is not limited to, the following:
 - 1. Benches
 - 2. Drinking Fountain
 - 3. Dog Rinse Station
 - 4. Dog Waste Station

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Cast-In-Place Concrete
- B. Asphalt Paving
- C. Concrete Paving
- D. Chain Link Fences and Gates

1.04 REFERENCES

- A. ASTM - American Society for Testing and Materials:
- B. Massachusetts Highway Department Standard Specifications for Highways and Bridges (MHD Specifications).

1.05 QUALITY ASSURANCE

- A. Source: For each type of product required for the work of this Section, provide products of one manufacturer and source for consistency.

SITE FURNISHINGS
12 93 00-1

- B. Codes and Standards: Perform site furnishings work in compliance with applicable requirements of governing authorities having jurisdiction. Workmanship and finish shall be equal to the best practice of modern shops for each item of work.
- C. Qualifications of Workers: Use adequate numbers of skilled workers who are trained in the necessary crafts and who are completely familiar with the specified requirements and methods needed for proper performance of the work of this Section.
- D. The work of this Section shall be completely coordinated with the work of other Sections. Verify dimensions and work of other trades which adjoin materials of this Section before installing items specified.
- E. Protect site furnishings from paint spatter, splashed concrete, and other construction damage by wrapping and taping in place plastic sheeting or heavy kraft paper until adjacent work is completed. Repair any damage to finish in a manner consistent with manufacturer's recommendations.

1.06 SUBMITTALS

- A. Shop Drawings: Supply shop drawings at an approved scale for location, installation and erection of each site furnishing item under this Section.
- B. Product Data: Provide manufacturer's product data showing installation and limitations in use of each site furnishing item. Supply Certificates of Compliance for all materials required for fabrication and installation.
- C. Material Selection and Samples: Submit samples showing the complete range of colors, textures and finishes available for all components required for construction. Work includes but is not limited to the following:
 - 1. Provide one sample, 6 in. x 6 in. minimum, of shop-applied finish for each site furnishings item.

PART 2 - PRODUCTS

2.01 FASTENERS AND HARDWARE

- A. Fasteners and metal components shall be cadmium-plated steel or steel hot-dipped galvanized in accordance with ASTM A 153.

2.02 BENCHES

- A. Benches shall be equal to:
 - 1. "Camber Bench", 6 foot, backed; 77.1" long x 27.2" deep x 32.8" high. Bench slats

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

material to be FSC 100% IPE hardwood. Frames to be solid cast aluminum with Aluminum powdercoat finish selected from standard Forms+Surfaces powdercoat chart. Model # SBCAM72BW, as manufactured by Forms + Surfaces, (www.forms-surfaces.com), or approved equal.

- B. All benches shall be surface mounted on concrete bases. Refer to drawings for locations. Concrete for footings shall be 3,500 psi cement concrete and shall conform to MHD Specifications Section M4.02.00.

- C. Bench Quantity: 5

2.03 DRINKING FOUNTAINS

- A. Drinking Fountains shall be equal to:

1. "Most Dependable Fountains" Model # 440 SMSS with optional stainless steel surface carrier and optional pet fountain as manufactured by Most Dependable Fountains, Inc. (www.mostdependable.com).

- B. Drinking fountain shall be mounted per manufacturers recommendations. Refer to drawings for locations. Concrete for footings shall be 3,500 psi cement concrete and shall conform to MHD Specifications Section M4.02.00.

- C. Color: Green

- D. Drinking Fountain Quantity: 1

2.04 DOG RINSE STATION

- A. Dog Rinse Station shall be equal to:

1. "Most Dependable Fountains" Model # 505 SM with optional stainless steel surface carrier as manufactured by Most Dependable Fountains, Inc. (www.mostdependable.com).

- B. Dog rinse station shall be mounted per manufacturers recommendations. Refer to drawings for locations. Concrete for footings shall be 3,500 psi cement concrete and shall conform to MHD Specifications Section M4.02.00.

- C. Color: Green

- D. Dog Rinse Station Quantity: 1

2.05 DOG WASTE STATION

- A. Dog Waste Station shall be equal to:

1. "Living the Dog Life" Eco Dog Station Aluminum Model # DL-EDS100-ALUM with poly waste bag dispenser, 10 gallon aluminum trash receptacle as manufactured by Living the Dog Life (www.livingthedoglife.com).
- B. Dog Waste Station shall be mounted per manufacturers recommendations. Refer to drawings for locations. Concrete for footings shall be 3,500 psi cement concrete and shall conform to MHD Specifications Section M4.02.00.
- C. Color: Green
- D. Dog Waste Station Quantity: 1

PART 3 - EXECUTION

3.01 GENERAL

- A. Site furnishings shall be erected as indicated on the Drawings, plumb, level, snug, and free from rocking. Make necessary shimming and final adjustments.
 1. Shims shall be stainless steel, sized so that they do not protrude beyond the base of the item so as to be visible in completed installation.

3.02 BENCHES

- A. Install benches level and plumb at the locations indicated on the Drawings and in accordance with approved shop drawings as per manufacturers' recommendations. Provide concrete footing as indicated.

3.03 DRINKING FOUNTAIN

- A. Install drinking fountain level and plumb at the locations indicated on the Drawings and in accordance with approved shop drawings as per manufacturers' recommendations. Provide concrete footing as indicated.

3.04 DOG RINSE STATION

- A. Install dog rinse station level and plumb at the locations indicated on the Drawings and in accordance with approved shop drawings as per manufacturers' recommendations. Provide concrete footing as indicated.

3.05 DOG WASTE STATION

- A. Install dog waste station level and plumb in concrete footings at locations indicated on the Drawings, in compliance with shop drawings and as per manufacturers' recommendations.

END OF SECTION

SITE FURNISHINGS
12 93 00-4

SECTION 32 12 16

ASPHALT PAVING

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Perform all work required to complete the work of the Section, as indicated. Such work includes, but is not limited to, the following:
 - 1. New Bituminous Concrete parking areas and maintenance drive apron
 - 2. Repairs to existing pavements as necessary.

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Painted Pavement Markings
- B. Concrete Paving
- C. Stone Curbs

1.04 REFERENCES

- A. Work shall conform to codes and standards of the following:
 - 1. Massachusetts Highway Department Standard Specifications for Highways and Bridges (MHD Specifications).

1.05 QUALITY ASSURANCE

- A. Unless otherwise specified, work and materials for construction of the bituminous concrete paving shall conform to the applicable portions of the following:
 - 1. MHD Specifications Section 460 for bituminous pavement for roadways and parking areas, Section 701 for bituminous sidewalks, and Section 405 for aggregate base course

2. MHD Specifications Section 472 for repairs to existing pavements after installation of new curb.
- B. Paving work, base course etc., shall be done only after excavation and construction work which might damage them has been completed. Damage caused during construction shall be repaired before acceptance.
- C. Repair and replace existing paved areas damaged and removed during this Project. Workmanship and materials for such repair and replacement shall match those employed in existing work, except as otherwise noted.
- D. Pavement subbase shall not be placed on a muddy or frozen subgrade.
- E. Existing pavement under state or local jurisdiction shall, if damaged or removed during the course of this project, be repaired or replaced under this section of the specification in conformance with applicable codes, standards, and practices.
- F. The Owner reserves the right to retain an independent testing laboratory to perform inspection and testing of paving and associated work in accordance with QUALITY CONTROL.

1.06 SUBMITTALS

- A. Complete bituminous concrete job mix formula, listing quantities and pertinent ingredient properties, shall be submitted to and approved by Landscape Architect at least two weeks before work is scheduled to begin.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Material for aggregate base course shall be a graded, granular, non-frost susceptible, free-draining material, consisting of either durable stone and coarse sand or of blast furnace slag, practically free from loam and clay, and which can be readily compacted to form a stable foundation.
 1. Material for aggregate base shall conform to MHD Specifications Section M1.03.0 Type b.
 2. Material for gravel subbase shall meet the requirements of MHD Specifications Section M2.01.7, "Dense-graded Crushed Stone for Sub-Base".

2.02 BITUMINOUS CONCRETE

- A. Bituminous concrete shall be a standard plant-mixed, hot-laid paving material for road work, consisting of clean, crushed rock aggregate, mineral filler, and asphalt conforming to MHD Specifications Section M3.11.03.

1. Binder or bottom course paving for roadways and parking lots shall have maximum aggregate size passing 1 in. sieve.
2. Top or wearing course paving for roadways and parking lots shall have maximum aggregate size passing 5/8 in. sieve.
3. Top of wearing course paving for sidewalks shall conform to composition for "Dense Mix".

2.03 BITUMINOUS MATERIALS

- A. Bituminous material for prime coat shall be one of the following:
1. Cut-back asphalt (rapid-curing type) conforming to AASHTO M81, Grade RC-70 or
 2. Emulsified asphalt rapid-setting type conforming to AASHTO M140, Grade RS-1.
- B. Bitumen shall be a rapid-setting type emulsified asphalt conforming to AASHTO M 140, Grade RS-1.
- C. Bituminous crack sealer shall be a hot-applied bituminous sealer conforming to Fed. Spec. SS-S-1401.

PART 3 - EXECUTION

3.01 GRADING

- A. Areas to be paved will be compacted and brought approximately to subgrade elevation before work of this section is performed. Final fine grading, filling, and compaction of subgrade to receive paving, as required to form a firm, uniform, accurate, and unyielding subgrade at required elevations and to required lines, shall be done under this Section.
- B. Existing subgrade material which will not readily compact as required shall be removed and replaced with satisfactory materials. Additional materials needed to bring subgrade to required line and grade and to replace unsuitable material removed shall be material conforming to this Section.
- C. Subgrade of areas to be paved shall be recompacted as required to bring top 8 in. of material immediately below gravel base course to a compaction of at least 90% of maximum density, as determined by ASTM D 1557, Method D. Subgrade compaction shall extend for a distance of at least 1 ft. beyond pavement edge.
- D. Excavation required in pavement subgrade shall be completed before fine grading and final compaction of subgrade are performed. Where excavation must be performed in completed subgrade or subbase subsequent backfill and compaction shall be performed. Completed subgrade after filling such areas shall be uniformly and properly graded.

- E. Areas being graded or compacted shall be kept shaped and drained during construction. Ruts greater than or equal to 2 in. deep in subgrade, shall be graded out, reshaped as required, and recompacted before placing pavement.
- F. Materials shall not be stored or stockpiled on subgrade.
- G. Disposal of debris and other material excavated and/or stripped under this section, and material unsuitable for or in excess of requirements for completing work of this Section shall be legally disposed of off-site.

3.02 AGGREGATE BASE COURSE

- A. Aggregate base course for paving and the spreading, grading, and compaction methods employed shall conform to standard requirements for usual base course of this type for first class road work, and the following: MHD Specifications Section 405, "Gravel Base Course".
- B. Compaction of aggregate base course shall be to 95% of maximum density as determined by ASTM D 1557, Method D. Stone greater than 2-1/2 in. shall be excluded from course.
- C. Width of base course shall be greater than the width of pavement surface, and shall extend at least 2 x base thickness beyond edge of the course above.
- D. Aggregate material shall be applied in lifts less than or equal to 6 in. thick, compacted measure. Each lift shall be separately compacted to specified density.
 - 1. Material shall be placed adjacent to wall, manhole, catch basin, and other structures only after they have been set to required grade and level.
 - 2. Rolling shall begin at sides and progress to center of crowned areas, and shall begin on low side and progress toward high side of sloped areas. Rolling shall continue until material does not creep or wave ahead of roller wheels.
 - 3. Surface irregularities which exceed 1/2 in. using a 10 ft. long straightedge shall be replaced and properly compacted.
- E. Subgrade and base course shall be kept clean and uncontaminated. Less select materials shall not be permitted to become mixed with gravel. Materials spilled outside pavement lines shall be removed and area repaired.
- F. Portions of subgrade or of construction above which become contaminated, softened, or dislodged by passing of traffic, or otherwise damaged, shall be cleaned, replaced, and otherwise repaired to conform to the requirements of this specification before proceeding with next operation.

3.03 BITUMINOUS PAVING

- A. Bituminous paving mixture, equipment, methods of mixing and placing, and precautions to be observed as to weather, condition of base, etc., shall conform to MHD Specifications Section

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

460 Class I Bituminous Concrete Pavement for roadway and parking areas and Section 701 Sidewalks, Wheelchair Ramps, and Driveways for sidewalks.

- B. Bituminous binder and wearing surface courses shall each be applied individually, in single lifts of full thickness indicated on the Drawings.
- C. Work shall not be performed during rainy weather or when temperature is less than 40 F
- D. Adjacent concrete work, etc., shall be protected from stain and damage during entire operation. Damaged and stained areas shall be replaced or repaired to equal their original condition.
- E. Existing paved surfaces to be resurfaced shall be cleaned of foreign and objectionable matter with blowers, power brooms, or hand brooms immediately before applying bituminous pavement. Cracks shall be cleaned and bituminous crack sealer applied to fully seal pavement.
- F. The surface of the pavement to be resurfaced shall receive a bituminous prime coat before laying bituminous binder course. Prime coat shall be applied at rate which will leave Bituminous residue of 5 to 7 gal./100 sq. yd. after evaporation of vehicle. Base surface shall be dry and clean when prime coat is applied. Bituminous paving material shall not be placed until vehicle has completely evaporated from prime coat. Adjoining new paving shall be placed before prime coat has dried or dusted over.
- G. Deliveries shall be timed to permit spreading and rolling all material during daylight hours, unless artificial light is provided. Loads which have been wet by rain or otherwise will not be accepted. Hauling over freshly laid or rolled material will not be permitted.
- H. Placing and rolling of mixture shall be as nearly continuous as possible. Rolling shall begin as soon after placing as mixture will bear the operation without undue displacement. Delays in rolling freshly spread mixture will not be permitted. Rolling shall proceed longitudinally, starting at edge of newly placed material and proceeding toward previously rolled areas. Rolling overlap on successive strips shall be greater than or equal to 1/2 width of roller rear wheel. Alternate trips of roller shall be of slightly different lengths. Corrections required in surface shall be made by removing or adding materials before rolling is completed. Skin patching of areas where rolling has been completed will not be permitted. Course shall be subjected to diagonal rolling, crossing lines of the first rolling while mixture is hot and in compactible condition. Displacement of mixture or other fault shall be corrected at once by use of rakes and application of fresh mixture or removal of mixture, as required. Rolling of each course shall be continued until roller marks are eliminated. Roller shall pass over unprotected edge of course only when paving is to be discontinued for sufficient time to permit mixture to become cold.
- I. In places not accessible to roller, mixture shall be compacted with hand tampers. Hand tampers shall weigh at least 50 lb. and shall have a tamping face less than or equal to 100 sq. in. Mechanical tampers capable of equal compaction will be acceptable in areas in which they can be employed effectively.
- J. Portions of pavement courses which become mixed with foreign material or are in any way defective shall be removed, replaced, replaced with fresh mixture, and compacted to density of

surrounding areas. Bituminous material spilled outside lines of finished pavement shall be immediately and completely removed. Such material shall not be employed in the work.

- K. Joints shall present same texture, density, and smoothness as other sections of the course. Continuous bond shall be obtained between portions of existing and new pavements and between successive placements of new pavement. New material at joints shall be thick enough to allow for compaction when rolling. Compaction of pavement, base, and subgrade at joints shall be such that there is no yielding of new pavement relative to existing pavement when subjected to traffic.
- L. Contact surfaces of previously constructed pavement (if greater than or equal to seven days since binder placed), manholes, and similar structures shall be thoroughly cleaned and painted with a thin uniform coating of bitumen immediately before fresh mixture is placed. Tack coat shall be applied at rate which will leave asphaltic residue of 5 to 7 gal./100 yd.² after evaporation of vehicle. Base surface shall be dry and clean when tack coat is applied. Bituminous paving material shall not be placed until vehicle has completely evaporated from tack coat. Adjoining new paving shall be placed before tack coat has dried or dusted over.
- M. Earth or other approved material shall be placed along pavement edges in such quantity as will compact to thickness of course being constructed, allowing at least 1 ft. of shoulder width to be rolled and compacted simultaneously with rolling and compacting surface. Pavement edge shall be trimmed neatly to line before placing earth or other approved material along edge.
- N. After final rolling, vehicular traffic shall not be permitted on pavement until it has cooled and hardened, and in no case less than six hours.
- O. Variations in smoothness of finished surface shall be less than or equal to the following tolerances when tested with a 10 ft. straightedge, applied both parallel to and at right angles to centerline of paved area.
 - 1. For roadway and parking pavement surface course - 1/4 in. in 10 ft.
 - 2. For sidewalk pavement surface course - 1/4 in. in 10 ft.
 - 3. At joint with existing pavement, and at other locations where an essentially flush transition is required, pavement elevation tolerance shall not exceed 0.01 ft.
 - 4. At other areas pavement elevation tolerance shall not exceed \pm 0.05 ft.
 - 5. Irregularities exceeding these amounts or which retain water on surface shall be corrected by removing defective work and replacing with new material conforming to this Section.

3.04 REPAIRS TO EXISTING PAVEMENT

- A. Subgrade shall be done in strict accordance with Paragraph 3.01, above.
- B. Aggregate base course shall be replaced in strict conformance with Paragraph 3.02, above

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

- C. Bituminous concrete paving mixture, equipment, and methods of mixing and placing shall conform to MHD Specifications Section 472 for Bituminous Concrete for Patching, and Paragraph 3.03, above.

END OF SECTION

ASPHALT PAVING
32 12 16-7

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

SECTION 32 13 13

CONCRETE PAVING

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Perform all work required to complete the work of the Section, as indicated. Such work includes, but is not limited to, the following:
 - 1. Concrete walkways, accessible ramps, accessible curb cuts and bench pads.

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Asphalt Paving
- B. Painted Pavement Markings
- C. Stone Curbs

1.04 REFERENCES

- A. Work shall conform to codes and standards of the following:
 - 1. Massachusetts Highway Department Standard Specifications for Highways and Bridges (MHD Specifications).
 - 2. American Concrete Institute (ACI):
 - 301 Specifications for Structural Concrete for Buildings
 - 305R Hot Weather Concreting
 - 306R Cold Weather Concreting
 - 316R Recommendations for Construction of Concrete Pavements and Concrete Bases.

CONCRETE PAVING
32 13 13-1

3. American Society for Testing and Materials (ASTM):
 - A 185 Welded Steel Wire Fabric for Concrete Reinforcement
 - C 33 Concrete Aggregates
 - C 94 Ready-Mixed Concrete
 - C 143 Slump of Portland Cement Concrete
 - C 150 Portland Cement
 - C 171 Sheet Materials for Curing Concrete
 - C 231 Air Content of Freshly Mixed Concrete by the Pressure Method
 - C 260 Air Entraining Admixtures for Concrete
 - C 309 Liquid Membrane-Forming Compounds for Curing Concrete
 - C 494 Chemical Admixtures for Concrete
 - D 226 Asphalt-Saturated Organic Roofing Felt for Use in Membrane Waterproofing and Built-Up Roofing
 - D 1557 Moisture - Density Relations of Soils and Soil Aggregate Mixtures Using 10 lb. (4.54-kg) Rammer and 18-in. (457 mm) Drop
 - D 1752 Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction
4. Americans with Disabilities Act (ADA): Appendix to Part 1191 Accessibility Guidelines for Buildings and Facilities. See Section 1.06.

1.05 QUALITY ASSURANCE

- A. Unless otherwise specified, work and materials for construction of the Portland cement concrete paving shall conform to ACI 316R.
- B. Paving work, base course etc., shall be done only after excavation and construction work which might damage them have been completed. Damage caused during construction shall be repaired before acceptance.
- C. Existing paving areas shall, if damaged or removed during course of this project, be repaired or replaced under this section of the specification. Workmanship and materials for such repair and replacement, except as otherwise noted, shall match as closely as possible those employed in existing work.
- D. Pavement, base, or subbase shall not be placed on a muddy or frozen subgrade.
- E. The Owner reserves the right to retain an independent testing laboratory to perform inspection and testing of paving and associated work in accordance with QUALITY CONTROL.

1.06 ADA AND MAAB COMPLIANCE

- A. Special attention is to be given to compliance with Americans with Disabilities Act (ADA) and the rules and regulations of the Massachusetts Architectural Access Board (MAAB).
 1. Slope: All *Accessible Routes* as defined in Section 20.00 of 521 CMR shall be

constructed with a maximum running slope (parallel to the direction of travel) of 1:20, or 5.0%. The cross slope (perpendicular to the direction of travel) for all accessible routes shall be constructed with a maximum slope of 1:50, or 2.0%. All **Curb Cuts** as defined in Section 21.00 of 521 CMR shall be constructed with a maximum ramp running slope (parallel to the direction of travel) of 1:12, or 8.33%. The maximum slope of the flared sides of the curb cut shall be 1:10, or 10%. The cross slope (perpendicular to the direction of travel) for all curb cuts shall be constructed with a maximum slope of 1:50, or 2.0%. All **Walkways** as defined in Section 22.00 of 521 CMR shall be constructed with a maximum running slope (parallel to the direction of travel) of 1:20, or 5.0%. The cross slope (perpendicular to the direction of travel) for all walkways shall be constructed with a maximum slope of 1:50, or 2.0%. All **Ramps** as defined in Section 24.00 of 521 CMR shall be constructed with a maximum running slope (parallel to the direction of travel) of 1:12, or 8.33%. The cross slope (perpendicular to the direction of travel) for all ramps shall be constructed with a maximum slope of 1:50, or 2.0%.

2. Width: All **Accessible Routes** as defined in Section 20.00 of 521 CMR shall be constructed with a minimum clear width of 36 inches, except at doors and at openings less than 24 inches deep, where it shall comply with 521 CMR 26.00. All **Curb Cuts** as defined in Section 21.00 of 521 CMR shall be constructed with a minimum width of 36 inches, exclusive of flared sides. Flared sides of curb cuts shall extend at least 24 inches at the curb. All **Walkways** as defined in Section 22.00 of 521 CMR shall be constructed with a minimum width of 48 inches, excluding curb stones. An unobstructed path of travel shall be provided with a minimum clear width of 36 inches, excluding curb stones. All **Ramps** as defined in Section 24.00 of 521 CMR shall be constructed with a minimum clear width of 48 inches, measured between the railings.
3. Accessible Route, Curb Cut, Walkway, and Ramp grades will be verified in the field for slope compliance with a 2-foot long electronic "Smart Level". Non-compliant portions of these elements will be immediately removed and reinstalled by the Contractor at no additional cost to the Owner until all slopes and widths are in compliance with the slope and width regulations outlined herein.
4. The above requirements shall supersede the grades shown on the plans. If these requirements cannot be met with the grades shown on the plans, the Landscape Architect and Owner's Representative shall be notified immediately for direction.

1.07 SUBMITTALS

- A. Submit manufacturer's product data for the following:
 1. Preformed joint filler.
- B. Submit samples of the following:
 1. For cement concrete paving show expansion joints, tooling and finish. Minimum 6' x 6' sample panel.
 2. Preformed joint filler.

PART 2 - PRODUCTS

CONCRETE PAVING 32 13 13-3

2.01 AGGREGATE BASE COURSE

- A. Material for aggregate base course shall be a graded, granular, free-draining material, consisting of either durable stone and coarse sand or of blast furnace slag, practically free from loam and clay, and which can be readily compacted to form a stable foundation.
1. Material shall conform to MHD Specifications Section M1.03.0 type b, with less than 8% by weight passing the No. 200 sieve.

2.02 STEEL REINFORCEMENT

- A. Welded wire fabric reinforcement shall conform to the applicable requirements of ASTM A 185. Fabric reinforcement shall be furnished in flat sheets. Fabric reinforcement in rolls will not be permitted.

2.03 PORTLAND CEMENT CONCRETE

- A. Portland cement concrete for pavements and slabs shall be air-entrained type with a maximum water-cement ratio of 5.0 conforming to ACI 316R. Minimum compressive strengths at 28 days shall be as follows: Flexural strength with third point loading - 650 psi; compressive strength - 4000 psi.
1. Concrete shall be air-entrained type, conforming to ASTM C 94. Air content by volume shall be $6\% \pm 1\%$, and shall be tested in accordance with ASTM C 231.
2. Concrete slump shall be no less than 2 in. nor greater than 4 in., determined in accordance with ASTM C 143.
3. Cement shall be Portland cement, conforming to ASTM C 150, Type I or II. Only one color of cement, all of the same manufacturer, shall be used for the work. Type III cement shall be used only with the prior approval of the Landscape Architect.
4. Fine and coarse aggregates shall conform to ASTM C 33.
5. Concrete shall contain a water reducing agent to minimize cement and water content of the concrete mix at the specified slump. Water reducing agent shall conform to ASTM C 494.
6. No calcium chloride or admixtures containing calcium chloride shall be added to the concrete. No admixtures other than those specified shall be used in the concrete without the specific written permission of the Landscape Architect in each case.

2.04 CURING MATERIALS

- A. Curing shall be by moist curing or by use of curing compound.
- B. Curing paper shall be nonstaining, fiber reinforced laminated kraft bituminous product conforming to ASTM C 171. Four mil polyethylene sheeting may be substituted for curing paper.
- C. Curing compound shall be a resin-base, white pigmented compound conforming to ASTM C 309, Type 2.

2.05 EXPANSION JOINTS

- A. Unless otherwise indicated on the Drawings, expansion joints shall be located 30 ft. o.c., maximum.
- B. Expansion joint filler shall be preformed, nonbituminous type joint filler conforming to ASTM D 1752, Type II, similar to Sealtight Cork Expansion Joint Filler, manufactured by W.R. Meadows, Inc., Elgin, IL 60120, or equal. Available equal manufacturers may consist of APS Supply Co., Inc., Beverly, NJ 08010, www.apscork.com or J & K Foam Fabricating, Inc., Pottstown, PA 19464, jkfoamfab.com.
1. Premolded filler shall be one piece for the full depth and width of the joint leaving a sealant recess as indicated.
 2. Use of multiple pieces of lesser dimensions to make up required depth and width of joint will not be permitted.
 3. Except as otherwise noted on the Drawings, joint filler shall be 1/2 in. thick.

2.06 CONTROL JOINTS

- A. All Control joints indicated on the plans shall be SAW CUT, unless specifically otherwise indicated. Control joints shall cut into slab at least 1 in., but in no case less than 25% of slab depth.

2.07 CONSTRUCTION JOINTS

- A. Transverse construction joints shall be placed whenever placing of concrete is suspended for more than 30 minutes.
1. Butt joint with dowels or thickened edge joint shall be used if construction joints occurs at location of control joint.
 2. Keyed joints with tiebars shall be used if the joint occurs at any other location.

2.08 GROUT

- A. Grout shall be mixed in the proportions of one part Portland cement to two parts sand, by volume. Only sufficient water shall be used to enable grout to barely hold its shape when squeezed into a ball in the hand. Sand for grout shall be "Fine Aggregate", conforming to ASTM C 33.
- B. Nonshrink grout shall be pre-mixed non-shrinking, high strength grout. Compressive strength in 28 days shall be 5,000 psi minimum, but in no case less than the specified strength of the adjacent concrete. Manufacturer shall provide evidence that the material meets the requirements of the COE CRDC 621 (558). Grout permanently exposed to view shall be nonoxidizing; metallic grout may be used in other locations.
1. Nonshrink grout shall be one of the following, or approved equal:

Manufacturer
Gifford-Hill Co.
Master Builders Co.
U.S. Grout Corporation

Product
Supreme
Embeco
Five Star Grout

2.09 CONCRETE PAVING JOINT SEALANTS

- A. Expansion joints shall receive joint backer rod and shall be sealed with a cold-applied urethane paving joint sealant. Color shall be as selected from manufacturer's standard colors.

PART 3 - EXECUTION

3.01 PREPARATION OF SUBGRADE

- A. Areas to be paved will be compacted and brought to subgrade elevation before work of this section is performed. Final fine grading, filling, and compaction of areas to receive paving, as required to form a firm, uniform, accurate, and unyielding subgrade at required elevations and to required lines, shall be done under this Section.
- B. Existing subgrade material which will not readily compact as required shall be removed and replaced with satisfactory materials. Additional materials needed to bring subgrade to required line and grade and to replace unsuitable material removed shall be material conforming to this Section.
- C. Subgrade of areas to be paved shall be recompacted as required to bring top 8 in. of material immediately below gravel base course to a compaction at optimum moisture of at least 95% of maximum density, as determined by ASTM D 1557. Subgrade compaction shall extend for a distance of at least 1 ft. beyond pavement edge.
- D. Excavation required in pavement subgrade shall be completed before fine grading and final compaction of subgrade are performed. Where excavation must be performed in completed subgrade, subbase, base, or pavement, subsequent backfill and compaction shall be performed. Completed subgrade after filling such areas shall be uniformly and properly graded.
- E. Areas being graded or compacted shall be kept shaped and drained during construction. Ruts greater than or equal to 2 in. deep in subgrade, shall be graded out, reshaped as required, and recompacted before placing pavement.
- F. Materials shall not be stored or stockpiled on subgrade.
- G. Disposal of debris and other material excavated under this section, and material unsuitable for or in excess of requirements for completing work of this section shall be disposed of off-site.

3.02 AGGREGATE BASE COURSE

- A. Aggregate base course for paving and the spreading, grading, and compaction methods employed shall conform to standard requirements for usual base course of this type for first class road work, and the following: MHD Specifications Section 405, "Gravel Base Course".
- B. Width of base course shall be greater than or equal to the width of pavement surface, if continuous lateral support is provided during rolling, and shall extend at least 2 x base thickness beyond edge of the course above, if not so supported.
- C. Aggregate material shall be applied in lifts less than or equal to 6 in. thick, compacted measure. Each lift shall be separately compacted to specified density, using a 6 ton steel wheel roller or vibratory roller equivalent to a 6 ton static roller, or an approved equivalent.
 - 1. Material shall be placed adjacent to wall, manhole, catch basin, and other structures only after they have been set to required grade and level.
 - 2. Rolling shall begin at sides and progress to center of crowned areas, and shall begin on low side and progress toward high side of sloped areas. Rolling shall continue until material does not creep or wave ahead of roller wheels.
 - 3. Surface irregularities which exceed 1/2 in. as measured by means of a 10 ft. long straightedge, shall be replaced and properly recompact.
- D. Base course shall be compacted at optimum moisture content to not less than 95% of maximum density as determined by ASTM D 1557.
- E. Subgrade and base course shall be kept clean and uncontaminated. Less select materials shall not be permitted to become mixed with gravel. Materials spilled outside pavement lines shall be removed and area repaired.
- F. Portions of subgrade or of construction above which become contaminated, softened, or dislodged by passing of traffic, or otherwise injured, shall be cleaned, replaced, or otherwise repaired to conform to the requirements of this specification before proceeding with next operation.

3.03 STEEL REINFORCEMENT

- A. Before being placed in position, reinforcing for reinforced concrete shall be thoroughly cleaned of loose mill and rust scale, dirt, ice, and other foreign material which may reduce the bond between the concrete and reinforcing. Where there is delay in placing concrete after reinforcement is in place, bars shall be reinspected and cleaned when necessary.
- B. Unless otherwise indicated on the Drawings, reinforcing shall extend within 2 in. of formwork and expansion joints. Reinforcing shall continue through control joints. Adjacent sheets of fabric reinforcing shall lap 6 in.
- C. After forms have been coated with form release agent, but before concrete is placed, reinforcing steel shall be securely wired in the exact position called for, and shall be maintained in that position until concrete is placed and compacted. Chair bars and supports shall be provided in a number and arrangement satisfactory to the Landscape Architect.

3.04 PORTLAND CEMENT CONCRETE PAVING

- A. Paving mix, equipment, methods of mixing and placing, and precautions to be observed as to weather, condition of base etc., shall meet the requirements of ACI 316R. Pavement shall be constructed in accordance with the Drawings.
- B. The Landscape Architect shall be notified of concrete placement sufficiently in advance of start of operation to allow his representative to complete preliminary inspection of the work, including subgrade, forms, and reinforcing steel, if used.
- C. Normal concrete placement procedures shall be followed. Concrete shall arrive at the jobsite so that no additional water will be required to produce the desired slump. When conditions develop that required addition of water to produce the desired slump, permission of the Landscape Architect must be obtained. The concrete shall be transported from the mixer to its place of deposit by a method that will prevent segregation or loss of material.
- D. Work shall not be performed during rainy weather or when temperature is less than 40 F. (4.4 C).
- E. Adjacent work, etc., shall be protected from stain and damage during entire operation. Damaged and stained areas shall be replaced or repaired to equal their original conditions.
- F. Existing concrete, earth, and other water-permeable material against which new concrete is to be placed shall thoroughly damp when concrete is placed. There shall be no free water on surface.
- G. Concrete which has set or partially set before placing shall not be employed. Retempering of concrete will not be permitted.
- H. Concrete shall be thoroughly spaded and tamped to secure a solid and homogeneous mass, thoroughly worked around reinforcement and into corners of forms.
- I. When joining fresh concrete to concrete which has attained full set, latter shall be cleaned of foreign matter, and mortar scum and laitance shall be removed by chipping and washing. Clean, roughened base surface shall be saturated with water, but shall have no free water on surface. A coat of 1:1 cement-sand grout, approximately 1/8 in. thick, shall be well scrubbed into thoroughly dampened concrete base. New concrete shall be placed immediately, before grout has dried or set.

3.05 FINISHING

- A. Concrete flatwork surfaces shall be screeded off and finished true to line and grade, and free of hollows and bumps. Surface shall be dense, smooth, and at exact level and slope required.
 - 1. Finished concrete surface for subbases shall be woodfloated to a slightly rough surface. Surface shall not deviate more than 1/4 in. in 10 ft.

2. Finished concrete surface for concrete walks and pads shall be wood-floated and steel troweled to a smooth surface. Surface shall not deviate more than 1/8 in. in 10 ft.
- B. Unless otherwise indicated, horizontal surfaces of concrete surfaces which will be exposed shall be given a light broomed finish, with direction of grooves in concrete surface perpendicular to length of concrete band, slab, or pad. After concrete has set sufficiently to prevent coarse aggregate from being torn from surface, but before it has completely set, brooms shall be drawn across it to produce a pattern of small parallel grooves. Broomed surface shall be uniform, with no smooth, unduly rough or porous spots, or other irregularities. Coarse aggregate shall not be dislodged by brooming operation.
- C. Immediately following finishing operations, SAW CUT control joints into the slab surface with appropriate sawing tool at the spacing shown on the plans or as specified herein. Do not round arrises at expansion joints.
- D. Where finishing is performed before end of curing period, concrete shall not be permitted to dry out, and shall be kept continuously moist from time of placing until end of curing period, or until curing membrane is applied.

3.06 CURING

- A. It is essential that concrete be kept continuously damp from time of placement until end of specified curing period. It is equally essential that water not be added to surface during floating and troweling operations, and not earlier than 24 hours after concrete placement. Between finishing operations surface shall be protected from rapid drying by a covering of waterproofing paper. Surface shall be damp when the covering is placed over it, and shall be kept damp by means of a fog spray of water, applied as often as necessary to prevent drying, but not sooner than 24 hours after placing concrete. None of the water so applied shall be troweled or floated into surface.
- B. Concrete surfaces shall be cured by completely covering with curing paper or application of a curing compound.
 1. Concrete cured using waterproof paper shall be completely covered with paper with seams lapped and sealed with tape. Concrete surface shall not be allowed to become moistened between 24 and 36 hours after placing concrete. During curing period surface shall be checked frequently, and sprayed with water as often as necessary to prevent drying, but not earlier than 24 hours after placing concrete.
 2. If concrete is cured with a curing compound, compound shall be applied at a rate of 200 sq. ft. per gallon, in two applications perpendicular to each other.
 3. Curing period shall be seven days minimum.

3.07 EXPANSION JOINTS

- A. Expansion joints shall be 1/2 in. wide and shall be as located on the Drawings. Expansion joint shall be formed in the concrete to required width with preformed joint filler in place. Joint filler

shall extend the full depth of the slab. Joint filler shall extend the full length of the expansion joint.

1. For concrete pavements and pads, depth of joint filler shall be as required to form a 1-1/4 in. deep joint sealant and backer rod recess below finished concrete surface. Backer rod and joint sealant shall be installed as per manufacturer's recommendations.

3.08 CONTROL JOINTS

- A. Control joints shall be placed as indicated on the drawings. If not indicated, SAW CUT control joints shall be scored into the concrete slab every 10 ft. o.c. maximum. Control joints will be SAW CUT as soon as the concrete is hard enough that the edges abutting the cut don't chip from the saw blade.

3.09 COLD WEATHER CONCRETING

- A. Materials for concrete shall be heated when concrete is mixed, placed, or cured when the mean daily temperature is below 40 F. or is expected to fall to below 40 F. within 72 hours, and the concrete after placing shall be protected by covering, heat, or both.
- B. Details of handling and protecting of concrete during freezing weather shall be subject to the approval and direction of the Landscape Architect. Procedures shall be in accordance with provisions of ACI 306R.

3.10 HOT WEATHER CONCRETING

- A. Concrete just placed shall be protected from the direct rays of the sun and the forms and reinforcement just prior to placing shall be sprinkled with cold water. Every effort shall be made to minimize delays which will result in excessive mixing of the concrete after arrival on the job.
- B. During periods of excessively hot weather (95 F. or above), ingredients in the concrete shall be cooled insofar as possible and cold mixing water shall be used to maintain the temperature of the concrete at permissible levels all in accordance with the provisions of ACI 305. Any concrete with a temperature above 95 F, when ready for placement will not be acceptable, and will be rejected.
- C. Temperature records shall be maintained throughout the period of hot weather giving air temperature, general weather conditions (calm, windy, clear, cloudy, etc.) and relative humidity. Records shall include checks on temperature of concrete as delivered and after placing in forms. Data should be correlated with the progress of the work so that conditions surrounding the construction of any part of the structure can be ascertained.

3.11 PROTECTION OF CONCRETE SURFACES

- A. Concrete surfaces shall be protected from traffic or damage until surfaces have hardened sufficiently. If necessary 1/2 in. thick plywood sheets shall be used to protect the exposed surface.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

END OF SECTION

CONCRETE PAVING
32 13 13-11

SECTION 32 14 13

PERMEABLE CONCRETE PAVERS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 SUMMARY

- A. Section includes the following:
 - 1. Permeable Concrete Pavers
 - 2. Permeable Joint Opening Aggregate
 - 3. Permeable Joint Aggregate Type 1
 - 4. Permeable Joint Aggregate Type 2
 - 5. Permeable Setting Bed Aggregate (Open-graded)
 - 6. Permeable Base Aggregate (Open-graded)
 - 7. Permeable Subbase Aggregate (Open-graded)

1.03 REFERENCES

- A. ASTM International, latest edition:
 - 1. C 29 Bulk Density and Voids in Aggregate Materials.
 - 2. C 33, Standard Specification for Concrete Aggregates.
 - 3. C 67, Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile, Section 8, Freezing and Thawing.
 - 4. C 136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - 5. C 140, Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
 - 6. C 144 Standard Specifications for Aggregate for Masonry Mortar.
 - 7. D 448, Standard Classification for Sizes of Aggregate for Road and Bridge Construction.
 - 8. C 936, Standard Specification for Solid Concrete Interlocking Paving Units.
 - 9. C 979, Standard Specification for Pigments for Integrally Colored Concrete.
 - 10. D 698 Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 5.5 lb (24.4 N) Rammer and 12 in. (305 mm) drop.

11. D 1557 Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 10-lb (44.5 N) Rammer and 18 in. (457 mm) drop.
12. C1645 Standard Test Method for Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units
13. D 1883, Test Method for California Bearing Ratio of Laboratory-Compacted Soils.
14. D 2940 Graded Aggregate Material for Bases or Subbases for Highways or Airports.
15. D 4254, Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density.

1.04 SUBMITTALS

- A. Permeable Concrete Pavers:
 1. Samples for verification: Three representative full-size samples of each paver type, thickness, color and finish that indicate the range of color variation and texture expected upon project completion.
 2. Accepted samples become the standard of acceptance for the product produced.
 3. Test results from an independent testing laboratory for compliance of concrete pavers with ASTM C 936.
 4. Manufacturer's catalog product data, installation instructions, and material safety data sheets for the safe handling of the specified materials and products.
- B. Permeable Joint Opening Aggregate:
 1. Provide three representative one pound samples in containers of aggregate materials that indicate the range of color variation and texture expected upon project completion.
 2. Accepted samples become the standard of acceptance for the product produced.
 3. Test results from an independent testing laboratory for sieve analysis, including washed gradations per ASTM C 136.
 4. Test results for void space percentage per ASTM C 29.
- C. Permeable Setting Bed, Base and Subbase Aggregate:
 1. Test results from an independent testing laboratory for compliance with ASTM D 448 No. 8, No. 57 and No. 2.
 2. Test results from an independent testing laboratory for sieve analysis, including washed gradations per ASTM C 136.
 3. Test results for void space percentage per ASTM C 29.
- D. Paving Installation Contractor:
 1. Job references from a minimum of three projects similar in size and complexity. Provide Owner/Client/General Contractor names, postal address, phone, fax, and email address.

1.05 QUALITY ASSURANCE

- A. Utilize a Manufacturer having at least ten years of experience manufacturing interlocking concrete pavers on projects of similar nature or project size.
- B: Source Limitations:
 1. Obtain Permeable Concrete Pavers from one source location with the resources to provide products of consistent quality in appearance and physical properties.
 2. Obtain Permeable Joint Opening Aggregate from one source with the resources to provide materials and products of consistent quality in appearance and physical properties.

- C. Paving Contractor Qualifications:
 - 1. Utilize an installer having successfully completed concrete paver installation similar in design, material, and extent indicated on this project.
 - D. Mockups:
 - 1. Install a 5 ft x 5 ft paver area.
 - 2. Use this area to determine joint sizes, lines, laying pattern(s) and levelness. This area will serve as the standard by which the workmanship will be judged.
 - 3. Subject to acceptance by owner, mock-up may be retained as part of finished work.
 - 4. If mock-up is not retained, haul offsite and dispose legally.
- 1.06 DELIVERY, STORAGE & HANDLING
- A. Deliver Permeable Concrete Pavers in manufacturer's original, unopened and undamaged container packaging with identification labels intact.
 - 1. Coordinate delivery and paving schedule to minimize interference with normal use of streets and sidewalks adjacent to paver installation.
 - 2. Deliver concrete pavers to the site in steel banded, plastic banded or plastic wrapped packaging capable of transfer by forklift or clamp lift.
 - 3. Unload pavers at job site in such a manner that no damage occurs to the product or adjacent surfaces.
 - B. Store and protect materials free from mud, dirt and other foreign materials.
- 1.07 PROJECT/SITE CONDITIONS
- A. Environmental Requirements:
 - 1. Install permeable pavers only on unfrozen permeable setting bed aggregate materials.
 - 2. Install permeable setting bed only on unfrozen permeable base and subbase aggregates.
 - 3. Install permeable base or subbase aggregates only over unfrozen subgrade.
- 1.08 PERMEABLE CONCRETE PAVER OVERAGE AND ATTIC STOCK
- A. Furnish 100 square feet of each product and size used to owner for maintenance and repair. Furnish Permeable Concrete Pavers from the same production run as installed materials.
 - B. Manufacture to supply maintenance and reinstatement manuals for Permeable Concrete Paver units.

PART 2 PRODUCTS

2.01 PERMEABLE CONCRETE PAVERS

- A. The permeable concrete paver shapes are based on:
 - 1. Unilock Eco-Optiloc (or approved equal)
 - 2. The specified products establish minimum requirements that substitutions must meet to be considered acceptable.
 - a. To obtain acceptance of unspecified products, submit written requests at least 7 days before the Bid Date.
- B. Product requirements:
 - 1. Permeable Paver: Unilock Eco-Optiloc (or approved equal)

- a. Color: Grey
 - b. Finish: (Standard)
 - c. Edge: Chamfer - 3 mm bevel
 - d. Size: Manufacture the sizes indicated with a maximum tolerance of plus or minus 1/16 in all directions.
 1. L-shape
- C. Provide pavers meeting the minimum material and physical properties set forth in ASTM C 936, Standard Specification for Interlocking Concrete Paving Units. Efflorescence is not a cause for rejection.
1. Average compressive strength 8000 psi (55MPa) with no individual unit under 7,200 psi (50 MPa).
 2. Average absorption of 5% with no unit greater than 7% when tested according to ASTM C 140.
 3. Resistance to 50 freeze-thaw cycles, when tested according to ASTM C1645, with no breakage greater than 1.0% loss in dry weight of any individual unit. Conduct this test method not more than 12 months prior to delivery of units.
- D. Accept only pigments in concrete pavers conforming to ASTM C 979.
Note: ACI Report No. 212.3R provides guidance on the use of pigments.
- E. Maximum allowable breakage of product is 5%.
- 2.02 PERMEABLE JOINT OPENING AGGREGATE
- A. Provide Permeable Joint Opening Aggregate materials conforming to ASTM C 33 and gradation requirements as presented in Table 1.
1. Color: (Grey)

TABLE 1
PERMEABLE JOINT OPENING AGGREGATE
GRADATION REQUIREMENTS
(GRANITE CHIPS)

1/8 to 3/16 inch granite chips	
Sieve Size	Percent Passing
1/4 in (6 mm)	97 to 100
No. 4 (4.75 mm)	70 to 83
No. 8 (2.36 mm)	37 to 50
No. 16 (1.18 mm)	0 to 12
pan	

- 2.03 PERMEABLE SETTING BED AGGREGATE
- A. Provide Permeable Setting Bed Aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 8 as presented in Table 2.

TABLE 2
PERMEABLE SETTING BED AGGREGATE
GRADATION REQUIREMENTS

ASTM No. 8

Sieve Size	Percent Passing
½ in (12.5 mm)	100
3/8 in (9.5 mm)	85 to 100
No. 4 (4.75 mm)	10 to 30
No. 8 (2.36 mm)	0 to 10
No. 16 (1.18 mm)	0 to 5

- 2.04 PERMEABLE BASE AGGREGATE
A. Provide Permeable Base Aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 57 as presented in Table 3.

TABLE 3
PERMEABLE BASE AGGREGATE
GRADATION REQUIREMENTS

ASTM No. 57	
Sieve Size	Percent Passing
1-1/2 in (37.5 mm)	100
1 in (25 mm)	95 to 100
1/2 in (12.5 mm)	25 to 60
No. 4 (4.75 mm)	0 to 10
No. 8 (2.36 mm)	0 to 5

- 2.05 PERMEABLE SUBBASE AGGREGATE
A. Provide Permeable Subbase Aggregate materials conforming to ASTM C 33 and gradation requirements of ASTM D 448 No. 2 as presented in Table 4.

TABLE 4
PERMEABLE SUBBASE AGGREGATE
GRADATION REQUIREMENTS

ASTM No. 2	
Sieve Size	Percent Passing
3 in (75 mm)	100
2-1/2 in (63 mm)	90 to 100
2 in (50 mm)	35 to 70
1-1/2 in (37.5 mm)	0 to 15
3/4 (19 mm)	0 to 5

Note: For all aggregates, provide washed, clean, have zero plasticity, free from deleterious or foreign matter, crushed, angular rock and contain no No. 200 sieve size aggregate materials used in the construction of permeable pavement. Aggregate materials serve as the structural load bearing platform of the pavement as well as a temporary receptor for the infiltrated water that is collected through the openings in the pavement's surface.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas indicated to receive paving for compliance with requirements for installation tolerances and other conditions affecting performance for the following items before placing the Permeable Concrete Pavers.
 - 1. Verify that subgrade preparation, compacted density and elevations conform to specified requirements.
 - 2. Verify that Geotextiles, if applicable, have been placed according to drawings and specifications.
 - 3. Verify that Permeable Base and Subbase Aggregate materials, thickness, compacted density, surface tolerances and elevations conform to specified requirements.
 - 4. Provide written density test results for soil subgrade, Permeable Base and Subbase Aggregate materials to the Owner, General Contractor and paver installation subcontractor.
 - 5. Verify location, type, and elevations of edge restraints, concrete collars around utility structures, and drainage inlets.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Beginning of bedding sand and paver installation signifies acceptance of base and edge restraints.

3.02 PREPARATION

- A. Verify that the subgrade soil is free from standing water.
- B. Stockpile Permeable Setting Bed, Joint, Base and Subbase Aggregate materials such that they are free from standing water, uniformly graded, free of any organic material or sediment, debris, and ready for placement.
- C. Remove any excess thickness of soil applied over the excavated soil subgrade to trap sediment from adjacent construction activities before placing the Geotextile and Permeable Subbase Aggregate materials.
- D. Keep area where pavement is to be constructed free from sediment during entire job. Remove and replace all Geotextile, Permeable Joint, Setting Bed, Base and Subbase Aggregate materials contaminated with sediment with clean materials.
- E. Complete all subdrainage of underground services within the pavement area in conjunction with subgrade preparation and before the commencement of Permeable Subbase Aggregate construction.
- F. Prevent damage to underdrain pipes, overflow pipes, observation wells, or inlets and other drainage appurtenances during installation. Report all damage immediately.
- G. Compact soil subgrade uniformly to at least 90 percent of Standard Proctor Density per ASTM D 698 for pedestrian areas. Compact soil subgrade uniformly to at least 95 percent Modified Proctor per ASTM D 1557 for vehicular areas.

3.03 INSTALLATION

- A. EDGE RESTRAINTS
 - 1. Provide edge restraints as indicated.

- a. Install job-built vertical granite curb to comply with requirements in Division 3 Section "Stone Curbs."
 - b. Provide vertical granite curb along the perimeter of all paving as specified. Install the face of the vertical granite curb, where it abuts pavers vertical down to the subbase.
 - c. Construct vertical granite curb to dimensions and level specified and support on a compacted subbase not less than 6 in (150 mm) thick.
- B. PERMEABLE BASE AND SUBBASE AGGREGATE
1. Provide the Permeable Subbase Aggregate in uniform lifts not exceeding 6 in., (150 mm) loose thickness and compact to at least 95 percent as per ASTM D 4254 to depths as indicated.
 2. Compact the Permeable Subbase Aggregate material with at least two passes in the vibratory mode then at least two in the static mode with a minimum 10 ton vibratory roller until there is no visible movement. Do not crush aggregate with the roller.
 3. Tolerance: Do not exceed the specified surface grade of the compacted Permeable Subbase Aggregate material more than $\pm 3/4$ in. (20 mm) over a 10 ft. (3 m) long straightedge laid in any direction.
 4. Provide the Permeable Base Aggregate material in uniform lifts not exceeding 6 in. (150 mm) over the compacted Permeable Subbase Aggregate material and compact to at least 95 percent as per ASTM D 4254 to depths as indicated.
 5. Compact the Permeable Base Aggregate material with at least two passes in the vibratory mode then at least two in the static mode with a minimum 10 ton vibratory roller until there is no visible movement. Do not crush aggregate with the compaction device.
 6. Tolerance: Do not exceed the specified surface grade of the compacted Permeable Base Aggregate material more than $\pm 1/2$ in. (13 mm) over a 10 ft. (3 m) long straightedge laid in any direction.
 7. Grade and compact the upper surface of the Permeable Base Aggregate material sufficiently to prevent infiltration of the Permeable Setting Bed Aggregate material both during construction and throughout its service life.
- D. PERMEABLE SETTING BED AGGREGATE
1. Provide and spread Permeable Setting Bed aggregate evenly over the Permeable Base Aggregate course and screed to a nominal thickness of 1-1/2 in. (40 mm).
 - a. Protect screeded Permeable Setting Bed Aggregate from being disturbed.
 - b. Screed only the area which can be covered by pavers in one day.
 - c. Do not use Permeable Setting Bed Aggregate material to fill depressions in the base surface.
 2. Keep moisture content constant and density loose and constant until Concrete Pavers are set and compacted.
 3. Inspect the Permeable Setting Bed Aggregate course prior to commencing the placement of the permeable concrete pavers.
 4. Inspect the Setting Bed Aggregate course prior to commencing the placement of the Permeable Concrete Pavers. Acceptance of the Setting Bed Aggregate occurs with the initiation of Permeable Concrete Paver placement.
- E. PERMEABLE CONCRETE PAVERS
1. Replace unit pavers with chips, cracks, voids, discolorations, and other defects that might be visible in finished work.

2. Mix Concrete Pavers from a minimum of three (3) bundles simultaneously drawing the paver vertically rather than horizontally, as they are placed, to produce uniform blend of colors and textures. (Color variation occurs with all concrete products. This phenomenon is influenced by a variety of factors, e.g. moisture content, curing conditions, different aggregates and, most commonly, from different production runs. By installing from a minimum of three (3) bundles simultaneously, variation in color is dispersed and blended throughout the project).
3. Exercise care in handling face mix pavers to prevent surfaces from contacting backs or edges of other units.
4. Provide Permeable Concrete Pavers using joint pattern as indicated. Adjust joint pattern at pavement edges such that cutting of edge pavers is minimized. Cut all pavers exposed to vehicular tires no smaller than one-third of a whole paver.
5. Use string lines or chalk lines on Permeable Setting Bed aggregate to hold all pattern lines true.
6. Set surface elevation of pavers 1/8 in. (3 mm) above adjacent drainage inlets, concrete collars or channels.
7. Place units hand tight against spacer bars. Adjust horizontal placement of laid pavers to align straight.
 - a. When installation is performed with mechanical equipment, use only unit pavers with spacer bars on sides of each unit.
8. Provide space between paver units of 1/32 in. (1 mm) wide to achieve straight bond lines.
9. Prevent joint (bond) lines from shifting more than $\pm 1/2$ in. (± 15 mm) over 50 ft. (15 m) from string lines.
10. Fill gaps between units or at edges of the paved area that exceed 3/8 inch (10 mm) with pieces cut to fit from full-size unit pavers.
11. Cut unit pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.
12. Prevent all traffic on installed pavers until Permeable Joint Aggregate has been vibrated into joints. Keep skid steer and forklift equipment off newly laid pavers that have not received initial compaction and Permeable Joint Aggregate material.
13. Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a to 5000-lbf (22-kN) compaction force at 80 to 90 Hz. Perform at least three passes across paving with vibrator. Vibrate under the following conditions:
 - a. After edge pavers are installed and there is a completed surface.
 - b. Compact installed concrete pavers to within 6 feet (1,800 mm) of the laying face before ending each day's work. Cover pavers that have not been compacted and leveling course on which pavers have not been placed, with nonstaining plastic sheets to prevent Permeable Setting Bed Aggregate from becoming disturbed.
14. Protect face mix Concrete Paver surface from scuffing during compaction by utilizing a urethane pad.
15. Remove any cracked or structurally damaged pavers and replace with new units prior to installing Permeable Joint Opening Aggregate material.
16. Provide, spread and sweep Permeable Joint Opening Aggregate into joints immediately after vibrating pavers into Permeable Setting Bed course until full.

Vibrate pavers and add Permeable Joint Aggregate material until joints are completely filled, then remove excess material. This will require at least 4 passes with a plate compactor.

17. Remove excess Permeable Joint Aggregate broom clean from surface when installation is complete.

3.04 FIELD QUALITY CONTROL

- A. Verify final elevations for conformance to the drawings after sweeping the surface clean.
 1. Prevent final Concrete Paver finished grade elevations from deviating more than $\pm 3/8$ in. (± 10 mm) under a 10 ft (3 m) straightedge or indicated slope, for finished surface of paving.
- B. Lippage: No greater than 1/32 in. (0.8 mm) difference in height between Permeable Concrete Pavers and adjacent paved surfaces.

3.05 REPAIRING, CLEANING AND SEALING

- A. Remove and replace unit pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.
- B. Cleaning: Remove excess dirt, debris, stains, grit, etc. from exposed paver surfaces; wash and scrub clean.
 1. Clean Permeable Concrete Pavers in accordance with the manufacturer's written recommendations.

3.06 PROTECTION

- A. Protect completed work from damage due to subsequent construction activity on the site.

3.07 PERMEABLE JOINT AGGREGATE MATERIAL REFILLING

- A. Remove all debris from joint and provide additional Permeable Joint Aggregate material after 120 days and before 150 days after date of Substantial Completion/Provisional Acceptance.
 1. Fill Permeable Joint Aggregate material full to the lip of the paver.

3.08 LIFE CYCLE ACTIVITIES

- A. Paver cleaning: Clean Permeable Concrete Pavers as needed to remove staining, dirt, debris, etc.
 1. Clean per manufacturers recommendations.
- B. Maintenance: Permeable Joint Aggregate Material.
 1. Annually inspect Permeable Joint Aggregate material for areas clogged with debris.
 2. Vacuum or sweep as necessary to restore surface infiltration.
 3. Remove debris by vacuuming or sweeping Permeable Joint Aggregate
 - a. Replenish removed Permeable Joint Aggregate material with clean aggregate material flush to paver lip.
 - b. Sweep excess material from paver surface.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

END OF SECTION

PERMEABLE CONCRETE PAVERS
32 14 13-10

SECTION 32 16 40

STONE CURBS

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Perform all work required to complete the work of this Section, as indicated. Such work includes, but is not limited to, the following:
 - 1. Stone Curbs

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Concrete Paving
- B. Asphalt Paving
- C. Permeable Concrete Pavers

1.04 REFERENCES

- A. Work shall conform to codes and standards of the following:
 - 1. Massachusetts Highway Department Standard Specifications for Highways and Bridges (MHD Specifications).
 - 2. American Society for Testing and Materials (ASTM):
 - C 615 Structural Granite
 - C 131 Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

1.05 QUALITY ASSURANCE

- A. Unless otherwise indicated, granite curb materials and construction shall conform to the

applicable portions of the following:

1. MHD Specification Section 500, "Curb and Edging".
- B. The Contractor and his Subcontractors shall inspect all subbases for unstable, unsuitable or improperly prepared areas. Do not begin work over unacceptable areas. Beginning work means the Contractor and his Subcontractors accept the subbase, previous work and conditions and shall be held responsible for any corrections required to properly implement the Construction Documents.

1.06 SUBMITTALS

- A. Shop Drawings: Supply shop drawings at an approved scale for location, installation and erection of all parts of the work under this section including but not limited to the following items:
 1. Granite Curb.

1.07 PROJECT CONDITIONS

- A. Protection: The Contractor shall use all means necessary to protect the materials of this Section before, during and after installation. In the event of damage, make all repairs and replacements necessary at no additional cost to the Owner. All work shall be executed in such a manner as to prevent any damage to existing streets, curbs, paving to remain, existing plant materials, and adjoining properties.
- B. The Contractor shall remove all debris, construction equipment and waste material from areas within the limit of work prior to inspection for acceptance.
- C. The Drawings indicate, in general, the alignment and finished grade elevations. The Landscape Architect, however, may make minor adjustments in grades and alignment as are found necessary.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Granite curb units shall be delivered to the job adequately protected from damage during transit.
- B. Curb units shall be stored off the ground with wood cribbing between each unit. Curb shall be protected against staining, chipping, and other damage. Cracked, badly chipped, or stained units will be rejected and shall not be employed in the work.

PART 2 - PRODUCTS

2.01 GRANITE CURBING

- A. Granite shall be a structural granite conforming to ASTM C 615, Class I Engineering Grade,

suitable for curbstone use.

1. Curb shall be light grey, free from seams which impair structural integrity, and with percentage of wear less than 32%, as determined by ASTM C 131.
- B. Curb materials shall conform to MHD Specifications Section M9.04.0 and shall meet requirements specified in the following subsection of Division III, Materials of the MHD Specifications:
- | <u>Item</u> | <u>Section</u> | <u>Type</u> |
|---------------------|----------------|-------------|
| Granite Curb | M9.04.1 | VA4 |
| Granite Curb Inlet | M9.04.5 | |
| Granite Curb Corner | M9.04.6A | |

2.02 CEMENT MORTAR

- A. Mortar for pointing joints between curbstones shall be a cement mortar composed of one part Portland cement and two parts sand, by volume with sufficient water to form a workable, stiff mixture.

2.03 CONCRETE

- A. Concrete for foundation at granite curb (where indicated) shall conform to MHD Specifications Section M4.00.0, 4000 psi, 1-1/2 in., 565 (Class A).

PART 3 - EXECUTION

3.01 SETTING CURB

- A. Curb shall be set in accordance with MHD Specification Section 501 and as shown on plans.
- B. Vertical face of vertical curb shall be plumb, with curb top parallel to adjacent surface.
- C. Curb shall be set accurately to line and grade. Curb units shall be fitted together as closely as possible. Curb shall not be field cut.
- D. Joints, between curb units shall be carefully filled with a cement mortar, and neatly pointed on the top and front exposed portions. After pointing excess mortar shall be cleaned from curb surface.
- E. Backfill material on each side of curb shall be as specified for adjacent surface and shall be thoroughly compacted by means of power tampers. Extreme care shall be taken not to destroy alignment. Curb sections disturbed during backfilling or otherwise shall be reset to line and grade, and properly backfilled.

END OF SECTION

STONE CURBS
32 16 40-3

SECTION 32 17 23.13

PAINTED PAVEMENT MARKINGS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Provide all equipment and materials, and do all work necessary for pavement marking, as indicated on the Drawings and as specified.

1.03 RELATED WORK

- A. Examine Contract Documents for requirements that affect work of this Section. Other Specification Sections that directly relate to work of this Section include, but are not limited to:
 1. Bituminous Concrete Pavement
 2. Permeable Concrete Pavers

1.04 REFERENCES

- A. Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern.
 1. Federal Specifications (Fed. Spec.):
TT-P-115E - Paint, Traffic, Highway, White, and Yellow
TT-P-1952E Type I and II
 2. Massachusetts Highway Department Standard Specifications for Highways and Bridges (MHD Specifications), Latest Edition.
 3. U.S. Department of Transportation Federal Highway Administration "Manual on Uniform Traffic Control Devices", latest Edition.
 4. MAAB (521 CMR) and ADA Regulations for all accessible parking.

1.05 SUBMITTALS

- A. Product Data: Submit suppliers certificate of conformance.
- B. Test Reports: Submit test reports for required performance.

1.06 QUALITY ASSURANCE

- A. Source: Provide the products of one manufacturer and source for consistency.
- B. Standards: Conform to all requirements of the U.S. Department of Transportation Federal Highway Administration "Manual on Uniform Traffic Control Devices", Latest Edition (herein after referred to as MUTCD), together with all issued errata, addenda, additions, revisions and supplemental specifications. Conform to all requirements of the latest MAAB (521 CMR) and ADA standards for accessible parking.

1.07 LAYOUT OF WORK

- A. The Contractor shall furnish to the Landscape Architect for approval a schedule of pavement marking operations in accordance with MHD Specifications Section 860.61.

1.08 TRAFFIC CONTROL

- A. Suitable warning signs shall be placed near the beginning of the worksite and well ahead of the worksite for alerting approaching traffic from both directions.
- B. Place traffic cones along newly painted lines to control traffic and prevent damage to newly painted surfaces. Remove when paint has dried fully.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Materials for pavement markings shall conform to MHD Specifications Section 860.40 as applicable for the particular material required.
- B. Paint shall conform to Fed. Spec. TT-P-1952E Type I and II and Fed. Spec. TT-P-115E, color as selected.
- C. Paint and reflective media shall be in sealed containers that plainly show the designated name, formula or specification number, batch number, color, date of manufacture, manufacturer's name, formulation number and directions, all of which shall be plainly legible at time of use.
- D. Paint shall be homogeneous, easily mixed to smooth consistency, and shall show no hard settlement or other objectionable characteristics during a storage period of six months.

2.02 MARKING EQUIPMENT

- A. Machines, tools and equipment used in the application of pavement markings shall conform to MHD Specifications Section 860.60 and shall be approved and maintained in satisfactory operating condition.
- B. Push-type machines of a type commonly used for application of paint to pavement surfaces shall be acceptable for marking parking areas. Applicator machine shall have the necessary paint tanks and spraying nozzles, and shall be capable of applying paint uniformly at coverage specified. Hand-operated spray guns shall be provided for use in areas where push-type machines cannot be used.
- C. Sandblasting equipment shall be provided as required for cleaning surfaces to be painted. Sandblasting equipment shall include an air compressor, hoses, and nozzles of proper size as required. Compressor shall be capable of furnishing not less than 150 cfm of air at a pressure of not less than 90 psi at the nozzle for each nozzle used.

PART 3 EXECUTION

3.01 SURFACE PREPARATION

- A. New pavement surfaces shall be allowed to cure for a period of not less than 48 hours before application of marking materials.
- B. Dust, dirt, and other granular surface deposits shall be removed by sweeping, blowing with compressed air, rinsing with water, or a combination of these methods, as required. Rubber deposits, surface laitance and other coatings adhering to the pavement shall be completely removed using scrapers, wire brushes, sandblasting, approved chemicals, or mechanical abrasion, as directed.

3.02 APPLICATION

- A. Marking materials shall be applied to clean, dry surfaces in accordance with the requirements of MHD Specifications Section 860.62.
- B. Paint shall be applied pneumatically with approved equipment.
- C. Pavement marking materials shall be applied evenly to the pavement surface to be coated at the line thickness specified in MHD Specifications Section 860.62.
- D. Guidelines and templates shall be employed as necessary to control paint application. Special precautions shall be taken in marking numbers, letters, and symbols.
- E. Edges of markings shall be sharply outlined.
- F. Maximum drying time requirements of the paint manufacturer shall be enforced to prevent undue softening of bitumen, and pickup, displacement, or discoloration by vehicle tires.

July 19, 2018
Bid Documents

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

- G. If markings require more drying time than stated by the paint manufacturer, painting operations shall be discontinued until cause of the slow drying is determined and corrected.

3.03 PROTECTION OF MARKINGS

- A. Markings shall remain protected in accordance with MHD Specifications Section 860.63.

3.04 GUARANTEE

- A. Contractor is to furnish the Owner with a one (1) year unconditional guarantee against fading, chipping, peeling, wearing, etc. The Contractor is to provide said guarantee in writing, in a form acceptable to the Landscape Architect. If said guarantee is not in an acceptable form, the Contractor will have (10) days after receipt of notice from the Landscape Architect to correct the form.

END OF SECTION

SECTION 32 17 26

TACTILE WARNING SURFACES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Perform all work required to complete the work of this Section, as indicated. Such work includes, but is not limited to, the following:
 - 1. Cast In Place Detectable/Tactile Warning Surface Tiles

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Concrete Paving
- B. Stone Curbs

1.04 REFERENCES

- A. Work shall conform to codes and standards of the following:
 - 1. Massachusetts Highway Department Standard Specifications for Highways and Bridges (MHD Specifications), Latest Edition.

1.05 QUALITY ASSURANCE

- A. Provide Cast in Place Detectable/Tactile Warning Surface Tiles and accessories as produced by a single manufacturer with a minimum of three (3) years experience in the manufacturing of Cast In Place Detectable/Tactile Warning Surface Tiles.
- B. Installer's Qualifications: Engage an experienced Installer certified in writing by Cast In Place Detectable/Tactile Warning Surface Tile manufacturer as qualified for installation, who has successfully completed installations similar in material, design, and extent to that indicated for

Project.

- C. Americans with Disabilities Act (ADA): Provide Surface Applied Detectable/Tactile Warning Surface Tiles which comply with the detectable warnings on walking surfaces section of the Americans with Disabilities Act (Title III Regulations, 28 CFR Part 36 ADA STANDARDS FOR ACCESSIBLE DESIGN, Appendix A, Section 4.29.2 DETECTABLE WARNINGS ON WALKING SURFACES).
- D. Vitrified Polymer Composite (VPC) Cast in Place Detectable/Tactile Warning Surface Tiles shall be an epoxy polymer composition with an ultra violet stabilized coating employing aluminum oxide particles in the truncated domes. The tile shall incorporate an in-line pattern of truncated domes measuring nominal 0.2" height, 0.9" base diameter, and 0.45" top diameter, spaced center-to-center 2.35" as measured on a diagonal and 1.67" as measured side by side. For wheelchair safety the field area shall consist of a non-slip surface with a minimum of 40 - 90° raised points 0.045" high, per square inch.
1. Dimensions: Cast in Place Detectable/Tactile Warning Surface Tiles shall be held within the following dimensions and tolerances:
Length and Width: As specified on plans and details
Depth: 1.375 (1-3/8") (+/-) 5% max.
Face Thickness: 0.1875 (3/16") (+/-) 5% max.
Warpage of Edge: 0.5% max.
Embedment Flange Spacing: shall be no greater than 3.1"
 2. Water Absorption of Tile when tested by ASTM D 570-98 not to exceed 0.05%.
 3. Slip Resistance of Tile when tested by ASTM C 1028-96 the combined Wet and Dry Static Co-Efficients of Friction not to be less than 0.80 on top of domes and field area.
 4. Compressive Strength of Tile when tested by ASTM D 695-02a not to be less than 28,000 psi.
 5. Tensile Strength of Tile when tested by ASTM D 638-03 not to be less than 19,000 psi.
 6. Flexural Strength of Tile when tested by ASTM D 790-03 not to be less than 25,000 psi.
 7. Chemical Stain Resistance of Tile when tested by ASTM D 543-95 (re approved 2001) to withstand without discoloration or staining - 10% hydrochloric acid, saturated calcium chloride, black stamp pad ink, chewing gum, red aerosol paint, 10% ammonium hydroxide, 1% soap solution, turpentine, Urea 5%, diesel fuel and motor oil.
 8. Abrasive Wear of Tile when tested by BYK - Gardner Tester ASTM D 2486-00 with reciprocating linear motion of 37± cycles per minute over a 10" travel. The abrasive medium, a 40 grit Norton Metallite sand paper, to be fixed and leveled to a holder. The combined mass of the sled, weight and wood block is to be 3.2 lb. Average wear depth shall not exceed 0.060 after 1000 abrasion cycles when measured on the top surface of the dome representing the average of three measurement locations per sample.
 9. Resistance to Wear of Unglazed Ceramic Tile by Taber Abrasion per ASTM C501-84 (re approved 2002) shall not be less than 500.
 10. Fire Resistance of Tile when tested to ASTM E 84-05 flame spread shall be less than 15.
 11. Gardner Impact to Geometry "GE" of the standard when tested by ASTM D 5420-04 to have a mean failure energy expressed as a function of specimen thickness of not less than 550 in. lbf/in. A failure is noted when a crack is visible on either surface or when any brittle splitting is observed on the bottom plaque in the specimen.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

12. Accelerated Weathering of Tile when tested by ASTM G 155-05a for 3000 hours shall exhibit the following result – $\Delta E < 4.5$, as well as no deterioration, fading or chalking of surface of tile color No 33538.
13. Accelerated Aging and Freeze Thaw Test of Tile and Adhesive System when tested to ASTM D 1037-99 shall show no evidence of cracking, delamination, warpage, checking, blistering, color change, loosening of tiles or other detrimental defects.
14. Salt and Spray Performance of Tile when tested to ASTM B 117-03 not to show any deterioration or other defects after 200 hours of exposure.
15. AASHTO HB-17 single wheel HS20-44 loading "Standard Specifications for Highways and Bridges". The Cast In Place Tile shall be mounted on a concrete platform with a $\frac{1}{2}$ " airspace at the underside of the tile top plate then subjected to the specified maximum load of 10,400 lbs., corresponding to an 8000 lb individual wheel load and a 30% impact factor. The tile shall exhibit no visible damage at the maximum load of 10,400 lbs.
16. Embedment flange spacing shall be no greater than 3.1" center to center spacing as illustrated on the product Cast in Place drawing.

1.06 SUBMITTALS

- A. Product Data: Submit manufacturer's literature describing products, installation procedures and routine maintenance.
- B. Samples for Verification Purposes: Submit two (2) tile samples minimum 6"x6" of the kind proposed for use.
- C. Shop Drawings: Shop drawings are required for products specified showing fabrication details, composite structural system, tile surface profile, sound on cane contact amplification feature, plans of tile placement including joints, and material to be used as well as outlining installation materials and procedure. Supply shop drawings at an approved scale for location, installation and erection of all parts of the work under this section including but not limited to the following items:
 1. Cast In Place Detectable/Tactile Warning Surface Tiles
- D. Material Test Reports: Submit complete test reports from qualified accredited independent testing laboratory to qualify that materials proposed for use are in compliance with requirements and meet or exceed the properties indicated on the specifications. All tests shall be conducted on a Cast In Place Detectable/Tactile Warning Surface Tile system as certified by a qualified independent testing laboratory and be current within a 24 month period.
- E. Maintenance Instructions: Submit copies of manufacturer's specified installation and maintenance practices for each type of Detectable Warning Surface Tile and accessory as required.

1.07 PROJECT CONDITIONS

- A. Protection: The Contractor shall use all means necessary to protect the materials of this Section

TACTILE WARNING SURFACES
32 17 26-3

before, during and after installation. In the event of damage, make all repairs and replacements necessary to approval of the Landscape Architect and at no additional cost to the Owner. All work shall be executed in such a manner as to prevent any damage to existing streets, curbs, paving to remain, existing plant materials, and adjoining properties.

- B. The Contractor shall remove all debris, construction equipment and waste material from areas within the limit of work prior to inspection for acceptance.
- C. The Drawings indicate, in general, the alignment and finished grade elevations. The Landscape Architect, however, may make minor adjustments in grades and alignment as are found necessary.
- D. Environmental Conditions and Protection: Maintain minimum temperature of 40°F in spaces to receive Cast In Place Detectable/Tactile Warning Surface Tiles for at least 24 hours prior to installation, during installation, and for not less than 24 hours after installation.
- E. The use of water for work, cleaning or dust control, etc. shall be contained and controlled and shall not be allowed to come into contact with the general public. Provide barricades or screens to protect the general public.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Cast in Place Detectable/Tactile Warning Surface Tiles shall be suitably packaged or crated to prevent damage in shipment or handling. Finished surfaces shall be protected by sturdy plastic wrappings to protect tile from concrete residue during installation and tile type shall be identified by part number.
- B. Cast in Place Detectable/Tactile Warning Surface Tiles shall be delivered to location at building site for storage prior to installation.

1.09 GUARANTEE

- A. Cast in Place Detectable/Tactile Warning Surface Tiles shall be guaranteed in writing for a period of five (5) years from date of final completion. The guarantee includes defective work, breakage, deformation, fading and loosening of tiles.

PART 2 - PRODUCTS

2.01 CAST IN PLACE DETECTABLE/TACTILE WARNING SURFACE TILES

- A. The Vitrified Polymer Composite (VPC) Cast In Place Detectable/Tactile Warning Surface Tile specified is based on "Armor-Tile" manufactured by Engineered Plastics Inc. 800.682.2525; www.armor-tile.com; or approved equal. Existing engineered and field tested products, which have been in successful service for a period of three (3) years and are in compliance with requirements, may be incorporated in the work and shall meet or exceed the specified test criteria and characteristics.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

- B. Color: To be "Brick Red".

PART 3 - EXECUTION

3.01 INSTALLATION

- A. During Cast in Place Detectable/Tactile Warning Surface Tile installation procedures, ensure adequate safety guidelines are in place and that they are in accordance with the applicable industry and government standards.
- B. Prior to placement of the Cast in Place Detectable/Tactile Warning Surface Tile system, review manufacturer and contract drawings and refer any and all discrepancies to the Engineer or Landscape Architect.
- C. The specifications of the structural embedment flange system and related materials shall be in strict accordance with the contract documents and the guidelines set by their respective manufacturers. Not recommended for asphalt applications.
- D. The physical characteristics of the concrete shall be consistent with the contract specifications while maintaining a slump range of 4 - 7 to permit solid placement of the Cast in Place Detectable/Tactile Warning Surface Tile system. An overly wet mix will cause the tile to float. Under these conditions, suitable weights such as 2 concrete blocks or sandbags (25 lb) shall be placed on each tile.
- E. The concrete pouring and finishing operations require typical mason's tools, however, a 4' long level with electronic slope readout, 25 lb. weights, and a large non-marring rubber mallet are specific to the installation of the Cast in Place Detectable/Tactile Warning Surface Tile system. A vibrating mechanism such as that manufactured by Vibco can be employed, if desired. The vibrating unit should be fixed to a soft base such as wood, at least 1 foot square.
- F. The factory-installed plastic sheeting must remain in place during the entire installation process to prevent the splashing of concrete onto the finished surface of the tile.
- G. When preparing to set the tile, it is important that no concrete be removed in the area to accept the tile. It is imperative that the installation technique eliminates any air voids under the tile. Holes in the tile perimeter allow air to escape during the installation process. Concrete will flow through the large holes in each embedment flange on the underside of the tile. This will lock the tile solidly into the cured concrete.
- H. The concrete shall be poured and finished true and smooth to the required dimensions and slope prior to the tile placement. Immediately after finishing concrete, the electronic level should be used to check that the required slope is achieved. The tile shall be placed true and square to the curb edge in accordance with the contract drawings. The Cast in Place Detectable/Tactile Warning Surface Tiles shall be tamped (or vibrated) into the fresh concrete to ensure that the field level of the tile is flush to the adjacent concrete surface. The embedment

process should not be accomplished by stepping on the tile as this may cause uneven setting which can result in air voids under the tile surface. The contract drawings indicate that the tile field level (base of truncated dome) is flush to adjacent surfaces to permit proper water drainage and eliminate tripping hazards between adjacent finishes.

- I. In cold weather climates it is recommended that the Cast in Place Detectable/Tactile Warning Surface Tiles be set deeper such that the top of domes are level to the adjacent concrete on the top and sides of ramp and that the base of domes to allow water drainage. This installation will reduce the possibility of damage due to snow clearing operations.
- J. Immediately after placement, the tile elevation is to be checked to adjacent concrete. The elevation and slope should be set consistent with contract drawings to permit water drainage to curb as the design dictates. Ensure that the field surface of the tile is flush with the surrounding concrete and back of curb so that no ponding is possible on the tile at the back side of curb.
- K. While concrete is workable, a 3/8" radius edging tool shall be used to create a finished edge of concrete, then a steel trowel shall be used to finish the concrete around the tile's perimeter, flush to the field level of the tile.
- L. During and after the tile installation and the concrete curing stage, it is imperative that there is no walking, leaning or external forces placed on the tile that may rock the tile causing a void between the underside of tile and concrete.
- M. Following tile placement, review installation tolerances to contract drawings and adjust tile before the concrete sets. Two suitable weights of 25 lb each may be required to be placed on each tile as necessary to ensure solid contact of the underside of tile to concrete.
- N. Following the concrete curing stage, protective plastic wrap is to be removed from the tile surface by cutting the plastic with a sharp knife, tight to the concrete/tile interface. If concrete bled under the plastic, a soft brass wire brush will clean the residue without damage to the tile surface.
- O. If desired, individual tiles can be bolted together using 1/4 inch or equivalent hardware. This can help to ensure that adjacent tiles are flush to each other during the installation process. Tape or caulking can be placed on the underside of the bolted butt joint to ensure that concrete does not rise up between the tiles during installation. Any protective plastic wrap which was peeled back to facilitate bolting or cutting, should be replaced and taped to ensure that the tile surface remains free of concrete during the installation process.
- P. Tiles can be cut to custom sizes, or to make a radius, using a continuous rim diamond blade in a circular saw or mini-grinder. Use of a straightedge to guide the cut is advisable where appropriate.
- Q. Any sound-amplifying plates on the underside of the tile, which are dislodged during handling or cutting, should be replaced and secured with construction adhesive. The air gap created between these plates and the bottom of the tile is important in preserving the sound on cane audible properties of the Armor-Tile system as required in various jurisdictions.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

3.02 CLEANING, PROTECTION AND MAINTENANCE

- A. Protect tiles against damage during construction period to comply with Tactile Tile manufacturer's specification.
- B. Protect tiles against damage from rolling loads following installation by covering with plywood or hardwood.
- C. Clean Tactile Tiles not more than four days prior to date scheduled for inspection intended to establish date of substantial completion in each area of project. Clean Tactile Tile by method specified by Tactile Tile manufacturer.
- D. Comply with manufacturers maintenance manual for cleaning and maintaining tile surface and it is recommended to perform annual inspections for safety and tile integrity.

END OF SECTION

TACTILE WARNING SURFACES
32 17 26-7

SECTION 32 31 13

CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Perform all work required to complete the work of the Section, as indicated. Such work includes, but is not limited to, the following:
 - 1. Chain Link Fences and Gates

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Cast in Place Concrete
- B. Turf and Grasses

1.04 REFERENCES

- A. ASTM - American Society for Testing and Materials
- B. Commonwealth of Massachusetts Highway Department - Standard Specifications for Highways and Bridges (MHD Specifications), latest edition.

1.05 LAWS, ORDINANCES, PERMITS AND FEES

- A. The Contractor shall:
 - 1. Give necessary notices, obtain all permits and pay all Governmental taxes, fees and other costs in connection with this work, file all necessary plans, prepare documents and obtain all necessary approvals of the local Building Departments having jurisdiction.
 - 2. Obtain all required certificates of inspection for this work and deliver same to the Architect before request for acceptance and final payment for the work.

3. Include in the work, without extra cost to the Owner, any labor, materials, services, apparatus, drawings (in addition to Contract Drawings and Documents) in order to comply with all applicable laws, ordinances, rules and regulations, whether or not shown on the Drawings and/or specified.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed chain-link fences and gates similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
 1. Engineering Responsibility: Preparation of data for chain-link fences and gates, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
- B. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a member company of the International Electrical Testing Association or is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7, and that is acceptable to authorities having jurisdiction
 1. Testing Agency's Field Supervisor: Person currently certified according to NETA ETT, or the National Institute for Certification in Engineering Technologies, to supervise on-site testing specified in Part 3.
- C. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects, and set quality standards for fabrication and installation.
 1. Include 10 ft. (3 m) length of fence and gate complying with requirements.
 - a. Approval of mockups is also for other material and construction qualities specifically approved by the Landscape Architect in writing.
 - b. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless such deviations are specifically approved by the Landscape Architect in writing.
 2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.07 SUBMITTALS

- A. Shop Drawings: Show locations of fences, gates, posts, rails, details of extended posts, extension arms, gate swing, or other operation, hardware, and accessories. Indicate materials, dimensions, sizes, weights, and finishes of components. Include plans, gate elevations, sections, details of post anchorage, attachment, bracing, and other required installation and operational clearances. Shop Drawings under this section include, but are not limited to the following:
 1. Chain Link Fences and Gates

- B. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates. Supply Certificates of Compliance for all materials required for fabrication and installation. Work includes but is not limited to the following items:
1. Fence and gate posts, rails, and fittings.
 2. Chain-link fabric, reinforcements, and attachments.
 3. Gates and hardware.
- C. Samples for Initial Selection: Manufacturer's color charts or 6-inch (150-mm) lengths of actual units showing the full range of colors available for components with factory-applied color finishes.
- D. Samples for Verification: For each type of chain-link fence and gate indicated:
1. Polymer-coated steel wire (for fabric) in 6-inch (150-mm) lengths.
 2. Polymer coating, in 6-inch (150-mm) lengths on shapes for posts, rails and gate framing.
- E. Product Certificates: For each type of chain-link fence and gate, signed by product manufacturer.
1. Strength test results for framing according to ASTM F 1043.
- F. Qualification Data: For Installer.
- G. Field quality-control test reports.
- H. Maintenance Data: For the following to include in maintenance manuals:
1. Polymer finishes.
- 1.08 PERFORMANCE REQUIREMENTS
- A. Structural Performance: Provide chain-link fences and gates capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
1. Minimum Post Size and Maximum Spacing for Wind Velocity Pressure: Determine based on mesh size and pattern specified, and on the following minimum design wind pressures and according to CLFMI WLG 2445:
 - a. Wind Speed: 80 mph (129 km/h).
 - b. Fence Height: 10 feet (3 m).
 - c. Line Post Group: IA, ASTM F 1043, Schedule 40 steel pipe.
 - d. Wind Exposure Category: B.

- B. Lightning Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.

1.09 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.
- B. Interruption of Existing Utility Service: Do not interrupt utility services to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
1. Notify Owner's Representative no fewer than two (2) days in advance of proposed interruption of utility services.
 2. Do not proceed with interruption of utility services without Owner's Representative's written permission.

PART 2 - PRODUCTS

2.01 GENERAL

- A. The types of fencing required for the project are as indicated below, subject to detailed material requirements which follow.
- B. All material shall be new, and products of recognized reputable manufacturers. Used, re-rolled or re-galvanized materials are not acceptable.
- C. Like items of materials provided hereinafter shall be the end products of one manufacturer in order to achieve standardization for appearance, maintenance and replacement.

2.02 CHAIN LINK FENCE FABRIC

- A. General: Height as indicated on Drawings. Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist. Comply with ASTM A 392, CLFMI CLF 2445, and requirements indicated below:
1. Steel Wire Fabric: Polymer coated wire with a diameter of 0.148 inch (3.76 mm) (9 Gauge).
 - a. Mesh Size: 2 inches (50 mm).
 - b. Weight of Metallic (Zinc) coating: ASTM A 392, Type II, Class 1, 1.2 oz./sq. ft. (366 g/sq. m) with zinc coating applied after weaving or 0.8 oz./sq. ft. (244 g/sq. m) with zinc coating applied after weaving.
 - c. Polymer Coating: ASTM F 668, Class 2b over metallic coated steel wire.

- 1) Color: Black.
- d. Coat selvage ends of fabric that is metallic coated before the weaving process with manufacturer's standard clear protective coating.
2. Selvage: Unless directed otherwise on the plans, fence fabric shall be knuckle selvaged at top and bottom.

2.03 FENCE AND GATE FRAMING

- A. Posts and Rails: Round cold-formed, electric-resistance-welded, steel pipe or tubing, with minimum yield strength of 45,000 psi (310 MPa) and with outside dimension, minimum wall thickness, and weight complying with ASTM F 761 or ASTM F 654 for the following fence height and strength and stiffness requirements:
 1. Fence Height: 6 feet.
 2. Duty Rating: Medium.
 3. Tube or Pipe Diameter and Thickness: According to ASTM F 761.
 4. Tube Size and Thickness: According to ASTM F 654.
 - a. Top and Bottom Rail: 1.66 inches (42 mm).
 - b. Line Post: 1.90 inches (48 mm).
 - c. Terminal Post: 2.375 inches (60 mm).
 - d. Gate Post: 2.375 inches (60 mm).
 - e. Tube or Pipe Thickness: 0.065 inches (1.7 mm).
 5. Gate: Comply with ASTM F 654 and the following:
 - a. Type: 1, single swing frame tubing.
 - b. Fabric Height: 2 inches (50 mm) less than adjacent fence height.
 - c. Leaf Width: As indicated.
 - d. Gate Frame: 1.66 inches (42 mm).
 6. Hardware: Latches permitting operation from both sides of gate, and hinges.
 7. Metallic-Coated Steel: Posts, rails, and frames protected with an external coating of not less than 0.6 oz. of zinc/sq. ft. (183 g of zinc/sq. m), a chromate conversion coating, and a clear, verifiable polymer film; with an internal protective coating of not less than 0.6 oz. of zinc/sq. ft. (183 g of zinc/sq. m) or 81 percent, not less than 0.3 mil (0.0076 mm) thick, zinc pigmented coatings.
2. Selvage: Unless directed otherwise on the plans, fence fabric shall be knuckle selvaged at top and bottom.

2.04 FITTINGS

- A. General: Comply with ASTM F 626:

- B. Post and Line Caps: Provide for each post.
 - 1. Line post caps with loop to receive top rail.
 - C. Rail and Brace Ends: Attach rails securely to each gate, corner, pull, and end post.
 - D. Rail Fittings: Provide the following:
 - 1. Top Rail Sleeves: Pressed steel or round-steel tubing not less than 6 inches (152 mm) long.
 - 2. Rail Clamps: Line and corner boulevard clamps for connecting intermediate and bottom rails in the fence line-to-line posts.
 - E. Tension and Brace Bands: Pressed steel.
 - F. Tension Bars: Steel, length not less than 2 inches (50 mm) shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.
 - G. Truss Rod Assemblies: Steel, hot-dip galvanized after threading rod and turnbuckle or other means of adjustment.
 - H. Tie Wires, Clips, and Fasteners: According to ASTM F 626.
 - 1. Standard Round Tie Wires: For attaching chain-link fabric to posts, rails, and frames, complying with the following:
 - a. Hot-Dip Galvanized Steel: 0.148 inch (3.76 mm) diameter wire; galvanizing coating thickness matching coating thickness of chain-link fence fabric.
 - I. Finish:
 - 1. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2 oz./sq. ft. (366 g/sq. m) zinc.
- 2.05 CAST-IN-PLACE CONCRETE
- A. Materials: Portland cement complying with ASTM C 150, Type I aggregates complying with ASTM C 33, and potable water for ready-mixed concrete complying with ASTM C 94/C 94M.
 - 1. Concrete Mixes: Normal-weight concrete with not less than 3000 psi (20.7 MPa) compressive strength (28 days), 3 inch (75 mm) slump, and 1 inch (25 mm) maximum size aggregate.
- 2.06 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer, for exterior applications.

2.07 FENCE GROUNDING

- A. Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
 - 1. Material above Finished Grade: Copper.
 - 2. Material on or below Finished Grade: Copper.
 - 3. Bonding Jumpers: Braided copper tape, 1 inch (25 mm) wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.
- B. Connectors and Grounding Rods: Comply with UL 467.
 - 1. Connectors for Below-Grade Use: Exothermic welded type.
 - 2. Grounding Rods: Copper-clad steel.
 - a. Size: 5/8 by 96 inches (16 by 2440 mm).

2.08 POLYMER FINISHES

- A. Supplemental Color Coating: In addition to specified metallic coatings for steel, provide all fence components with polymer coating.
- B. Metallic-Coated Steel Framing and Fittings: Comply with ASTM F 626 and ASTM F 1043 for polymer coating applied to exterior surfaces and, except inside cap shapes, to exposed interior surfaces.
 - 1. Polymer Coating: Not less than 10 mil (0.254 mm) thick PVC or 3 mil (0.076 mm) thick polyester finish.
- C. Color: Match chain-link fence fabric, complying with ASTM F 934.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site

clearing, earthwork, pavement work, and other conditions affecting performance.

1. Do not begin installation before final grading is completed, unless otherwise permitted by Architect.
2. Proceed with installation only after unsatisfactory conditions have been corrected

3.02 PREPARATION

- A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet (152.5 m) or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments

3.03 INSTALLATION, GENERAL

- A. Install chain link fencing to comply with ASTM F 567 and more stringent requirements specified.
 1. Install fencing on established boundary lines inside property line.

3.04 CHAIN LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Exposed Concrete: Extend 2 inches (50 mm) above grade, shape and smooth to shed water.
 - b. Exposed Concrete: Top 2 inches (50 mm) below grade to allow covering with surface material.
 - c. Posts Set into Concrete in Sleeves: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions, and finished sloped to drain water away from post.
 - d. Posts Set into Voids in Concrete: Form or core drill holes not less than 5 inches (125 mm) deep and 3/4 inch (20 mm) larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions, and finished sloped to drain water away from post

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

- C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more.
 - D. Line Posts: Space line posts uniformly at 10 feet (3.05 m) o.c. maximum.
 - E. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Install braces at end and gate posts and at both sides of corner and pull posts.
 - F. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
 - G. Bottom Rail: Install, spanning between posts.
 - H. Chain-Link Fabric: Apply fabric to enclosing framework. Leave 2 inches (50 mm) between finish grade or surface and bottom selvage, unless otherwise indicated. **See Sheet C4.04 for installation detail within limits of the dog park.** Pull fabric taut and tie to posts, rails. Anchor to framework so fabric remains under tension after pulling force is released.
 - I. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches (380 mm) o.c.
 - J. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at one end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
 - 1. Maximum Spacing: Tie fabric to line posts at 12 inches (300 mm) o.c. and to braces at 24 inches (610 mm) o.c.
 - K. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side. Peen ends of bolts or score threads to prevent removal of nuts.
- 3.05 GATE INSTALLATION
- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.
- 3.06 GROUNDING AND BONDING
- A. Fence Grounding: Install at maximum intervals of 500 feet (150 m), except as follows:
 - 1. Fences within 100 feet (30 m) of Buildings, Structures, Walkways, and Roadways:

Ground at maximum intervals of 250 feet (75 m)..

- a. Gates and Other Fence Openings: Ground fence on each side of opening.
 - 1) Bond metal gates to gate posts.
 - 2) Bond across openings, with and without gates, except openings indicated as intentional fence discontinuities. Use No. 2 AWG wire and bury at least 18 inches (460 mm) below finished grade.
- B. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches (150 mm) below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at the grounding location.
- C. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
- D. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
 - 1. Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
 - 2. Make connections with clean, bare metal at points of contact.
 - 3. Make aluminum to steel connections with stainless-steel separators and mechanical clamps.
 - 4. Make aluminum -to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.
 - 5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.
- E. Bonding to Lightning Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning protection down conductor or lightning protection grounding conductor complying with NFPA 780.

3.07 FIELD QUALITY CONTROL

- A. Ground Resistance Testing: Engage a qualified independent testing and inspection agency to perform field quality-control testing.

3.08 ADJUSTING

- A. Gate: Adjust gate to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

July 19, 2018
Bid Documents

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

3.09 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain gates.

END OF SECTION

CHAIN LINK FENCES AND GATES
32 31 13-11

SECTION 32 90 00

PLANTING

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Perform all work required to complete the work of the Section, as indicated. Such work includes, but is not limited to, the following:
 - 1. Planting of trees, shrubs, vines and groundcovers
 - 2. Maintenance and guarantee

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Turf and Grasses

1.04 QUALITY ASSURANCE

- A. All plant materials shall be true to name according to "Standardized Plant Names", published by the American Joint Committee on Horticulture Nomenclature, 1942 edition. Each plant or bundle shall be tagged with the name and size of plants in accordance with the standards of the American Association of Nurserymen (AAN). In all cases, botanical names shall take precedence over common names.
- B. Quality and size shall conform to the current edition of "Horticultural Standards" for number one grade nursery stock as adopted by the AAN.
- C. All plants and plant materials shall comply with all Federal, State and local laws and regulations requiring inspection for plant disease and insect control.
- D. Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

1. American National Standards Institute, Inc. (ANSI):
Z60.1 American Standard for Nursery Stock (Sponsor:
American Association of Nurserymen, Inc.)
2. American Society for Testing and Materials (ASTM):
C 136 Sieve Analysis of Fine and Coarse Aggregates
D 422 Particle-Size Analysis of Soils
E 11 Wire-Cloth Sieves for Testing Purposes
F 405 Corrugated Polyethylene (Pe) Tubing and Fittings
3. "Hortus Third", A Concise Dictionary of Plants Cultivated in the United States and Canada,
Cornell University, L.H. Bailey Hortorium, MacMillian Publishing Co., New York, NY.

1.05 SUBMITTALS

- A. Submit a complete list of all materials proposed for use in this work, demonstrating complete conformance with the requirements specified. Submissions must include:
1. List of plant nurseries to the Landscape Architect for approval of stock selection and quality.

- B. Samples: The following samples shall be submitted:

<u>Material</u>	<u>Sample Size or Quantity</u>
Mulch	1 ft. ³
Compost	1 ft. ³
Planting soil	1 ft. ³
Soil separator	1 ft. ³
Loam borrow	1 ft. ³
Tree stake	36 in. length

- C. Manufacturer's Product Data: Manufacturer's product data shall be submitted for the following materials:

Aluminum sulfate
Antidessicant
Fertilizer
Compost

PLANTING
32 90 00-2

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

Soil separator

- D. Certificates: Labels from the manufacturer's container certifying that the product meets the specified requirements shall be submitted for the following materials:

Commercial fertilizer
Limestone

- E. Test Reports: Test reports from an approved testing agency indicating compliance with the specifications shall be submitted for peat moss, planting soil mixture, and any other materials designated by the Landscape Architect.

1.06 OWNER'S INSPECTION AND TESTING

- A. Work will be subject to inspection at all times by the Landscape Architect. The Owner reserves the right to engage an independent testing laboratory to analyze and test materials used in the construction of the work. Where directed by the Landscape Architect, the testing laboratory will make material analyses and will report to the Landscape Architect whether materials conform to the requirements of this specification.
1. Cost of tests and material analyses made by the testing laboratory will be borne by the Owner when they indicate compliance with the specification, and by the Contractor when they indicate non-compliance.
 2. Testing equipment will be provided by and tests performed by the testing laboratory.
 3. Gradation of granular materials shall be determined in accordance with ASTM C 136. Sieves for determining material gradation shall be as described in ASTM E 11.

1.07 SOURCE QUALITY CONTROL

- A. Identification of plant materials shall be as named in "Hortus Third".
- B. Selection of Plant Materials: Submit to the Landscape Architect the names and locations of nurseries proposed as sources of acceptable plant material. Inspect all nursery materials to determine that the materials meet the requirements of this section. Proposed materials may be flagged at the nurseries by the Contractor prior to viewing by the Landscape Architect.
1. Schedule with the Landscape Architect a time for viewing plant material at the nursery. Trips to nurseries (if necessary) shall be efficiently arranged to allow the Landscape Architect to maximize viewing time. A minimum of six weeks shall be allowed for this viewing prior to time that plants are to be dug.
 2. If long distance or air travel is required for the Landscape Architect to perform nursery visits, any and all costs associated with such visits (air travel, vehicle rental, fuel, room and board, etc.) shall be borne by the Contractor.
 3. Landscape Architect may choose to attach a seal to each plant, or representative samples.
 4. Where requested by the Landscape Architect, photographs of plant materials or representative samples of plants may be submitted in lieu of nursery visits.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

5. Viewing and/or sealing of plant materials by the Landscape Architect at the nursery does not preclude the Landscape Architect's right to reject material at the site of planting.

1.08 AVAILABILITY OF PLANT MATERIAL

- A. Before changes or substitutions can be made due to unavailability of plant material, submit satisfactory evidence that the Contractor has advertised for a one month period in a trade journal such as the "Landscape Materials Information Service", (Tel. And Fax: 914-887-4401) (or equal), with no response, or has undertaken other methods of locating plant material acceptable to the Landscape Architect.

1.09 PRODUCT HANDLING

- A. Digging Plant Material: Plants shall not be dug at the nursery or approved source until the Contractor is ready to transport them from their original locations to the site of the work or acceptable storage location.
- B. Transportation of Plant Material: Plants transported to the project in open vehicles shall be covered with tarpaulins or other suitable covers securely fastened to the body of the vehicle to prevent injury to the plants. Closed vehicles shall be adequately ventilated to prevent overheating of the plants. Plants shall not remain in darkened enclosed trailer for more than 48 hours cumulative.
 1. Plants shall be kept moist, fresh, and protected at all times. Such protection shall encompass the entire period during which the plants are in transit, being handled, or are in temporary storage.
 2. Unless otherwise authorized by the Landscape Architect, notify the Landscape Architect at least three working days in advance of the anticipated delivery date of any plant material. A legible copy of the bill of lading, showing the quantities, kinds, and sizes of materials included for each shipment shall be furnished to the Landscape Architect.
- C. Delivery and Storage:
 1. Deliver all items to the job site in their original containers with all labels intact and legible at time of Landscape Architect's inspection.
 2. Immediately remove from the site all plants which are not true to name, and all materials which do not comply with the specified requirements.
 3. Use all means necessary to protect plant materials before, during, and after installation and to protect the work and materials of all other trades.
 4. Replacements: in the event of damage, immediately make all repairs and replacements necessary to the approval of the Landscape Architect and at no additional cost to the Owner.

1.10 REJECTION OF MATERIALS

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. R10143.00

- A. Evidence of inadequate protection following digging, carelessness while in transit, or improper handling or storage, shall be cause for rejection.
- B. Upon arrival at the temporary storage location or the site of the work, plants shall be inspected for proper shipping procedures. Should the roots be dried out, large branches be broken, balls of earth broken or loosened, or areas of bark be torn, the Landscape Architect will reject the injured plant.
- C. When a plant has been rejected, remove it from the area of the work within 3 days and replace it with one of the required size and quality.

1.11 PLANTING SEASON

- A. Planting: Planting may commence as soon as the ground has thawed at the nursery and at the site of planting, and weather conditions make it practicable to work both at the nursery and at the site.

- 1. Planting shall not occur any later than the following:

<u>Material</u>	<u>End of Spring Planting Period</u>
Deciduous Trees and Shrubs	July 15
Evergreen Trees and Shrubs	June 30

- B. Regardless of the dates specified above, planting shall only be performed when weather and soil conditions are suitable for planting the material specified in accordance with locally accepted practice.
 - C. Planting season may be extended only with the written permission of the Landscape Architect. Plant material guarantee shall be honored regardless of extended planting season.

1.12 JOB CONDITIONS

- A. Utilities: Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate as required. Maintain grade stakes set by others until removal is mutually agreed upon by all parties concerned.
- B. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before planting.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Loam - friable, typical of local cultivated topsoil containing 5% (min.) decayed organic matter

PLANTING
32 90 00-5

(humus), no toxic materials, from well drained, arable site, reasonably free of subsoil, stones, earth, clods, sticks, roots or debris.

1. Deliver no topsoil in frozen or muddy condition.
- B. Superphosphate - finely ground phosphate rock with eighteen percent (18%) minimum available phosphoric acid.
- C. Bone Meal - commercial raw bone meal, finely ground, 1% nitrogen and 18% phosphorus acid (min.).
- D. Manure - well rotted, unleached, cattle manure, reasonably free of wood shavings, sawdust or other litter and no chemicals or other ingredients harmful to plants. Dehydrated manure (Bovung or equal) is acceptable.
- E. Fertilizer - All plants will be fertilized with a controlled release 16-8-16 analysis fertilizer contained in polyethylene perforated bags with micropore holes. The bag shall contain 4 ounces minimum of water soluble fertilizer to be effective for 8 years. Pills, spikes, tablets and injections are not considered controlled release packets.
1. Deliver as specified in standard containers, showing weight, analysis and manufacturer. Store in a weather-proof place.
- F. Peat - domestic or imported, of partially decomposed vegetable matter of natural occurrence, brown, clean, low in content of mineral and woody material; mildly acid, granulated or shredded, free from weedy grasses, sedges or rushes.
- G. Lime - ground, dolomite limestone, 95% passing 100 mesh screen.
- H. Planting mixture - topsoil thoroughly incorporated with well rotted manure or equivalent dehydrated manure or bone meal and peat proportioned 1 c.y. to 7 c.y. topsoil.
- I. Mulch - aged pine bark consisting of the outer bark of pine trees with minimum hardwood bark. Bark shall be thoroughly mixed and aged in stock piles a minimum of 6 months, partially decomposed, dark brown in color, and generally free of chunks of wood thicker than 1/4". Aged pine bark containing an excess of fine particles will not be acceptable.
- J. Water - The Contractor will furnish hose and connections required for watering all plant materials until completion of the project.
- K. Tree Staking - Hardwood Stake - for tree guying - 30" long (min.). For tree staking - 8' long (min.). Install as detailed on the Drawings.
- L. Wire - pliable No. 12 to 14 gauge galvanized soft steel wire with rubber hose or Chain Lock brand plastic tree tie or approved equivalent.
- M. Wrapping material - first quality, heavy, waterproof crepe paper manufactured for this purpose;

not less than 4" wide.

2.02 PLANT MATERIALS

- A. Furnish and install all plants as per Drawings in quantities listed on plant materials list. If there is any discrepancy between quantities listed and shrubs shown, notify the Landscape Architect. Contractor shall be responsible for quantity of shrubs graphically shown on plans.
- B. All plants shall be nursery grown unless authorized to be collected.
- C. Plants - in accordance with USDA Standard for Nursery Stock, latest edition, hardy under climatic conditions similar to locality of project, typical of species or variety, normal habit of growth, sound, healthy, vigorous, well-branched, densely foliated when in leaf, free of disease, insect pests, eggs, or larvae, with well developed root systems.
- D. If plants of specified kind or size are not available within a reasonable distance, substitutions may be made upon request, if approved by Landscape Architect.
- E. Plant Dimensions - conform to USDA Standard for Nursery Stock, latest edition, as specified. Exceptions as follows:
 - 1. Plants larger than specified may be used if approved by Landscape Architect at no increase in contract price. Increase spread of roots or earth ball in proportion to size of plant.
 - 2. Undersize plants (10% max.) in any one variety or grade may be used if approved by the Landscape Architect. Provide sufficient plants above size to make average equal to or above specified grade. Undersize plants shall be larger than average size of next smaller grade.
- F. Balled and burlapped (B & B) plants - dig with firm natural earth roots. Made balls are unacceptable.
- G. Container grown plants - grown in container long enough for root system to have developed sufficiently to hold its soil together firm and whole. Plants loose in container will not be acceptable.
- H. Protect B & B plants not planted immediately upon delivery with soil, wet moss, or other acceptable material. Prevent voids among roots with careful filling. Bind no plants with wire or rope so as to damage bark or break branches.
- I. Plants are subject to inspection and approval at place of growth for conformity to specifications as to quality, size, and variety. The expenses incurred by the Landscape Architect for such inspections shall be born by the Contractor. Landscape Architect reserves right of inspection upon delivery at the site or during progress of work or right of rejection due to damage suffered in handling or transportation. Remove defective plants immediately from site. Plants to be accompanied by State Nursery inspection certification, if required.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to the proper and timely completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 PLANTING OPERATIONS

- A. Plant nursery stock immediately (dependent on weather and/or soil conditions- see 3.02 B below) upon delivery to the site and approval by the Landscape Architect. Layout individual tree and shrub locations, as well as areas for multiple plantings. Stake locations, outline plant beds and obtain the Landscape Architects approval before proceeding with planting operations.
- B. Planting may be done whenever weather and soil conditions are favorable, or as otherwise authorized by Landscape Architect. If the weather or soil conditions are not favorable, or for any other reason for which the Owner is not responsible (Contractor delays, conflicts with work of other Contractor trades, etc.), the Contractor, at his own cost, will heel-in plant material with damp soil or mulch to protect from sun and wind. Heeled-in plant material shall be watered at the same rate and regularity as planted material. The Contractor is responsible for all costs associated with heeled-in plant material, including soil or mulch, water, and any temporary irrigation system necessary to perform watering operations. Contractor shall keep heeled-in plant material in good condition for whatever amount of time necessary until the plant material is ready for installation in its final location.
- C. Notify Landscape Architect at least one week prior to beginning planting operations.
- D. Excavate tree pits 2'-0" diameter (min.) and shrub pits 12" diameter (min.) greater than ball of earth or spread of roots and sufficiently deep to allow for 4" thick layer of compacted planting mixture beneath ball or roots.
- E. Locate pits prepared and backfilled with planting mixture to grade prior to planting by staking and recording on plans for location when planting proceeds.
- F. Set plants in center of pits, plumb and straight, with crown of plant 1" higher, after settlement, than surrounding finished grade.
- G. When B & B trees are set, compact topsoil mixture around bases of balls to fill all voids. Remove burlap, ropes or wires from top one third (1/3) of balls before filling in with planting mixture.
- H. Thoroughly compact planting mixture around roots or balls and water immediately after plant pit is backfilled. Form a shallow basin slightly larger than pit with a ridge of sod to facilitate and contain watering. Cultivate soil in shrub beds, rake smooth and neatly outline after planting. Provide 12" (min.) of loam between all shrubs and 6" (min.) between all ground covers.

- I. Distribute controlled release fertilizer packets equidistant within the planting pit adjacent to the root ball but not in direct contact with the roots. Placement depth shall be 6 to 8 inches. Packets shall not be cut, ripped or damaged.

1. Application rates as follows:

<u>Planting Item</u>	<u>Size</u>	<u>No. of Packets</u>
Deciduous Trees:	1-3" cal.	3
	4-6" cal.	4
Shrubs:	2-3'	2
	over 3'	3
Evergreen Trees:	5-10'	4
	over 10'	5
Vines:	1 gal.	1
Groundcover:		1 per four plants

- J. Stake or guy trees as detailed on the Drawings or as directed by the Landscape Architect.
- K. Prune each plant in accordance with AAN standards to preserve natural character. Remove all dead wood, suckers, broken or badly bruised branches and approximately 1/4 of wood. Prune with clean, sharp tools.
- L. Cover all tree and shrub pits immediately after planting with 3" (min.) layer of specified mulch. Limit of mulch for trees shall be area of pit; for shrubs in beds, entire area of shrub bed.
- M. Contractor shall furnish plans showing locations of underground utilities encountered, as required.

3.03 MAINTENANCE - PLANTING

A. Planting Maintenance

1. Maintenance shall begin immediately after each plant is planted and shall continue for a minimum of ninety (90) days following final acceptance of all planting.
2. Maintenance shall consist of keeping the plants in a healthy growing condition and shall include, but is not limited to, watering, weeding, cultivating, re-mulching, tightening and repairing of guys, removal of dead material, resetting plants to proper grades or upright position, and maintaining the planting saucer.
 - a. Plants shall be inspected for watering needs at least twice each week and watered as necessary to promote plant growth and vitality.
 - b. Stakes shall be kept plumb and neat in appearance. Guys, wires and anchoring cables shall be tightened and repaired weekly.
 - c. Planting beds and individual plant pits shall be kept free of weeds, and mulch shall be replaced as required to maintain the specified layer of mulch. Beds

- and individual pits shall be neat in appearance and maintained to the designed layout.
 - d. Plants that die during the maintenance period shall be removed and replaced at once, unless designated otherwise by the Landscape Architect.
 - e. Spraying for both insect pests and diseases shall be included during the maintenance period as required and as directed.
3. During the ninety (90) day maintenance period, any decline in the condition of plantings shall require the Contractor to take immediate action to identify potential problems and undertake corrective measures. If requested by the Landscape Architect, the Contractor shall engage professional arborists and/or horticulturalists to inspect plant materials and to identify problems and recommend corrective procedures.

3.04 ACCEPTANCE STANDARDS FOR PLANTING

- A. Following the completion of all planting, the Contractor shall request, from the Landscape Architect in writing, a formal inspection of the completed work. If plant materials and workmanship for the site are acceptable, written notice will be given to the Contractor stating that the work has received acceptance and that the ninety (90) day maintenance period and the one (1) year guarantee period has commenced from the date of written acceptance.
- B. If a number of plants are sickly or dead at the time of the Contractor-requested formal inspection, or if, in the Landscape Architect's opinion, workmanship is unacceptable, written notice will be given by the Landscape Architect to the Contractor in the form of a punch list, which itemizes necessary planting replacements and/or other deficiencies to be remedied. The Contractor's responsibility for maintenance and the maintenance period for all the plants (not just the deficient material) shall be extended until replacements are made or other deficiencies are corrected. All dead and/or unsatisfactory plants shall be removed by the Contractor promptly from the project site. Replacement plant material shall conform in all respects to the Specifications for new plants and shall be planted in the same manner.

3.05 GUARANTEE FOR PLANT MATERIALS

- A. Plants shall be guaranteed for a period of one (1) year after the date of written notification of acceptance by the Landscape Architect, and shall be alive and in satisfactory growth at the end of the guarantee period.
- B. At the end of the guarantee period, a final inspection will be held to determine whether any additional plant material replacements are required. Each plant shall show at least 75% healthy growth and shall have the natural character of its species as determined by the Landscape Architect. Plants found unacceptable shall be removed promptly from the site and be replaced during the normal planting season. The replacement plant shall then begin its one (1) year guarantee period, and the same process for final acceptance outlined above will be applied to the replacement material. This will continue until all plants live through one (1) year.
- C. All replacement plants shall have a one (1) year guarantee from time of planting.

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

July 19, 2018
Bid Documents

END OF SECTION

PLANTING
32 90 00-11

SECTION 32 92 00

TURF AND GRASSES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Include Town of Natick Department of Public Works Construction Standards, April 2016 as part of this Section.
- B. Examine all other Sections of the Specifications for requirements which affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 WORK INCLUDED

- A. Refer to the Drawings for the extent and details of this work.
- B. The work of this Section consists of all seeding and related work as shown on the Drawings or required herein and includes, but is not limited to the following:
 - 1. Providing all topsoil required for work of this Section.
 - 2. Screening stripped and stockpiled topsoil.
 - 3. Providing additional new topsoil from off-site sources as required to complete work for this Section.
 - 4. Providing all soil amendments, fertilizers, erosion controls and mulches as required for work in this Section.
 - 5. Scarification of subsoil in preparation for loaming.
 - 6. Spreading and fine grading topsoil for all lawn.
 - 7. Seeding required for work in this Section.
 - 8. Maintenance and guarantee.

1.03 RELATED WORK UNDER OTHER SECTIONS

- A. Planting

1.04 REFERENCES

- A. Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern.
 - 1. American Society for Testing and Materials (ASTM):

- C 136 Sieve Analysis of Fine and Coarse Aggregates
- D 422 Particle-Size Analysis of Soils
- E 11 Wire-Cloth Sieves for Testing Purposes

1.05 SUBMITTALS

- A. Materials list: Submit a complete list of all materials proposed for use in this work, demonstrating complete conformance with the requirements specified.
 - 1. Submit lawn seed mix for approval.
 - 2. Submit product information with mix ratios and amounts for hydromulching to be used during hydroseeding for Owner's Representative and Landscape Architect's approval.
 - 3. Submit fertilizer, herbicide and fungicide products for application as required for Owner's Representative and Landscape Architect's approval.
 - 4. Submit mechanical analysis of any soil amendments.

1.06 QUALITY ASSURANCE

- A. All lawn seed and amendments shall comply with all Federal, State and local laws and regulations requiring inspection for plant disease and insect control.

1.07 PRODUCT HANDLING

- A. Delivery and Storage:
 - 1. Deliver all items to the job site in their original containers with all labels intact and legible at time of Landscape Architect's inspection.
 - 2. Immediately remove from the site all materials which do not comply with the specified requirements
 - 3. Use all means necessary to protect lawn and meadow seed from moisture and other contaminants which may adversely affect proper germination. Deliver seed in original sealed containers, labeled with analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging, location of packaging, and name of seed grower. Damaged packages will not be accepted. Seed shall be stored under cool and dry conditions so that the endophytic seed in the mixture is capable of maintaining a high level of endophytes.
 - 4. Use all means necessary to protect fertilizers, amendments and other materials from moisture and other contaminants which may adversely affect their efficacy. Deliver fertilizer in sealed waterproof bags, printed with manufacturer's name, weight, and guaranteed analysis.

1.08 JOB CONDITIONS

- A. Utilities: Determine location of underground utilities and perform work in a manner which will

avoid possible damage. Hand excavate as required. Maintain grade stakes set by others until removal is mutually agreed upon by all parties concerned.

- B. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before spreading topsoil.

1.09 PLANTING SEASON

- A. Planting season shall be as follows:

Material

Planting Season

Spring

Fall

4/1 to 6/1

9/1 to 10/1

Lawn Seeding

- B. Planting shall only be performed when weather and soil conditions are suitable for planting the material specified in accordance with locally accepted practice.

- C. Planting season may be extended with the written permission of the Landscape Architect.

1.10 ACCEPTANCE

- A. Acceptance:

1. The Landscape Architect will inspect all work for Substantial Completion upon written request of the Contractor. The request shall be received at least ten calendar days before the anticipated date of inspection.
2. Acceptance of material by the Landscape Architect will be for general conformance to specified requirements, and shall not relieve the Contractor of responsibility for full conformance to the Contract Documents.
3. Upon completion and reinspection of all repairs or renewals necessary in the judgement of the Landscape Architect, the Landscape Architect will recommend to the Owner that the work of this Section be accepted.

- B. Seed areas will be accepted when in compliance with all the following conditions:

1. Roots are thoroughly knit to the soil;
2. All areas show a uniform stand of specified grass in healthy condition;
3. At least 60 days have elapsed since the completion of work under this Section.

PART 2 - PRODUCTS

2.01 LAWN PRODUCTS

A. Topsoil

1. Topsoil stockpiled from on-site stripping may be utilized if in compliance with the requirements for new topsoil.
2. All topsoil that was stripped and stockpiled shall be screened to a maximum stone size of 3/8 in. largest dimension, as determined by pipette method in compliance with ASTM F-1632.
3. Any excess topsoil remaining at the end of the project shall become the property of the Town, and shall be moved to a location specified by the Town at their expense.

B. New Topsoil

1. New Topsoil: Shall be natural, fertile loam typical of cultivated topsoils of the locality, containing not less than 3.5% or more than 8% by weight, of decayed organic matter (humus) as determined by ASTM F-1647. If organic amendments are needed to obtain the specified matter content of the topsoil, the organic matter source may be a peat or compost material. The peat shall be Canadian sphagnum peat having an ash content not exceeding 15% as determined by ASTM D-2974. Compost may be used, provided that the material has been composted in an in-vessel system, and has an ash content not exceeding 40%.
2. Topsoil shall be taken from a well-drained, arable site, free of subsoil, large stones, earth clods, sticks, stumps, clay lumps, roots or other objectionable, extraneous matter or debris.
3. Topsoil shall be free of Quack-grass rhizomes, *Agropyron repens*, and the nut-like tubers of Nutgrass, *Cyperus esculentus*, and all other primary noxious weeds.
4. Topsoil shall have a pH not less than 6.0 or greater than 7.0.
5. Topsoil shall not be delivered or used for planting operations while in a frozen or muddy condition.
6. Topsoil shall conform to the following particle size distribution, with a maximum 3/8" largest dimension, as determined by pipette method in compliance with ASTM F-1632:

Sand	40-60%
Silt	30-40%
Clay	5-20%
7. Minimum planting soil nutrient levels shall be: Nitrogen @ 5% average of organic matter, Phosphorus @ .02 to .05% average of total soil content, Potassium @ 1.2% average of total soil content.

C. Washed Screened Sand (Topsoil Amendment):

1. Washed screened sand shall conform to the following particle size distribution when tested for mechanical gradation (sieve analysis) and compared to the USDA Soil Classification System with a three eighths (3/8") largest dimension.

<u>Sieve</u>	<u>Diam</u>	<u>Allowable range</u>
<u>Mesh</u>	<u>of sieve (mm)</u>	<u>% retained</u>

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

Gravel	10	2.00	0-5%
Very Coarse Sand	18	1.00	0-20% combined w/ gravel
Coarse Sand	35	0.50	at least 60%
Medium Sand	60	0.25	in this range
Fine Sand	100	0.15	10% maximum
Very Fine Sand	270	0.05	3% maximum
Silt		0.002	5% maximum
Clay		<0.002	3% maximum

In addition, there should be 100% passing the No. 5 screen (4 mm), and no more than 10% combined very fine sand, silt, and clay.

D. Lime

1. Lime shall be an approved agricultural limestone containing no less than fifty (50%) percent of total carbonates and twenty five (25%) percent total magnesium with a neutralizing value of at least one hundred (100%) percent
2. The material shall be ground to such a fineness that forty (40%) percent will pass through a Number 100 U.S. Standard Sieve, and ninety eight (98%) percent will pass through a Number 20 U.S. Standard Sieve.
3. The lime shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original, unopened containers, each bearing the manufacturer's guaranteed analysis.
4. Any lime which becomes caked or otherwise damaged making it unsuitable for use, will be rejected.

E. Fertilizer

1. Starter Fertilizer: General starter fertilizer with a nutrient analysis 19-26-5, N-P-K. A minimum of 75% of the total nitrogen 19% is derived from urea and methylene ureas; a minimum of 25% from monoammonium phosphate. A minimum of 2.1% from water-insoluble methylene ureas; remaining 97.9% from water-soluble urea, slowly available methylene urea and monoammonium phosphate. Phosphorus (26%) from monoammonium phosphate; potash (5%) and sulfur as sulfate (1.8%) from potassium sulfate
2. Shall be as determined by a soil test from an approved soil testing laboratory.

F. Water

1. Water shall be supplied by the Contractor unless otherwise specified.
2. The Contractor is responsible for providing and operating all equipment, hoses, etc. for watering throughout the project and until final acceptance of lawn and turf areas by the Landscape Architect.
3. Water shall be suitable for irrigation and free from ingredients harmful to seeded or sodded areas.

G. Herbicides, Pesticides and Fungicides

1. Herbicides, pesticides, and fungicides may be used subject to the approval of the Landscape Architect, and handled by State Licensed operators only.

H. Seed

1. Lawn Seed mixture: Standard grade seed of the most recent season's crop. Seed shall be dry and free of mold. Seed shall be inoculated with endophytes. Submit proposed mixture to the Landscape Architect for approval. Seed mixture shall be as follows:

Lawn Seed Mix

<u>Name of Seed</u>	<u>% by Weight in Mixture</u>	<u>Minimum % Purity</u>	<u>Minimum % Germination</u>
Rebel II, Rebel Jr., or Tribute Tall Fescue	80	95	90
Palmer II Perennial Ryegrass	10	98	90
Nassau, Georgetown, Ram I or Baron Kentucky Bluegrass	10	98	90

I. Hydroseed Mix

1. All work will be carried out by an approved spraying machine specifically used for this work. Amounts of fertilizer used shall reflect recommendations outlined in the Soil Analysis, see Section 2.01 E. The Contractor shall submit to the Landscape Architect for approval, prior to the start of work, a certified statement as to number of pounds of fertilizer, amounts and types of grass seed, and processed fiber, per one hundred (100) gallons of
2. Cellulose Fiber Mulch: Cellulose fiber mulch shall be composed of virgin wood, contain a green color additive, be weed free, and non-polluting, containing no germination or growth - inhibiting factors, similar to Hydro Mulch, manufactured by Conwed Corporation, St. Paul, Minnesota 55113.

J. Compost

1. Compost shall be derived from organic wastes such as food and agricultural residues, animal manures, mixed solid waste and biosolids (treated sewage sludge) that meet all State Environmental Agency requirements. The product shall be well composted, free

of viable weed seeds and contain material of a generally humus nature capable of sustaining growth of vegetation, with no materials toxic to plant growth.

1. Compost shall have the following properties:

<u>Parameters</u>	<u>Range</u>
pH	5.5 – 8.0
Moisture Content	35% - 55%
Soluble Salts	≤ 4.0 mmhos (dS)
C:N ratio	15 – 30:1
Particle Size	< 1"
Organic Matter Content	> 50%
Bulk Density	< 1000 lbs./cubic yard
Foreign Matter	< 1% (dry weight)

2. Compost generator shall also provide minimum available nitrogen and other macro and micro nutrients to determine fertilizer requirements.
3. Compost shall be "AllGro", distributed by AllGro, 4 Liberty Lane West, Hampton, NH 03842; "Agresoil", distributed by Agresource, 100 Main Street, Amesbury, MA 01913; or equal.
4. Guidelines for quantity of compost required to achieve suitable soil organic content in soil mixes for ornamental horticultural planting shall be as recommended by the compost manufacturer.

PART 3 - EXECUTION

3.01 PREPARATION OF SUBSOIL

- A. Subgrade shall be examined to ensure that rough grading and all other subsurface work in lawn areas and other areas to be seeded or sodded is done prior to start of seeding or sodding.
- B. Existing subgrade shall be loosened or scarified to a minimum depth of 3 in. prior to spreading topsoil. Subgrade shall be brought to true and uniform grade, and shall be cleared of stones greater than 3 in., sticks, and other extraneous material.
- C. Prior to spreading topsoil, subsoil should be rough graded to correspond with finish grades as indicated on the Drawings. Subgrade shall slope to allow for subsurface drainage. Depressions shall be filled, and areas which are highly compacted shall be loosened to a depth which is adequate for the passage of gravitational water through the subsoil.
- D. After acceptance of subsoil grades, loosen and mix subgrade material two inches to four inches (2"-4") deep. Remove stones over two (2") inches, sticks, rubbish, and other deleterious materials which may impede the healthy and vigorous growth of grass. Move no heavy objects or machinery, except as necessary for the spreading of topsoil, over sod and seed beds after preparation of subgrade.

- E. Subsoil which becomes compacted due to excessive construction activity shall be loosened as directed by the Landscape Architect at no additional cost to the Owner.

3.02 SPREADING OF TOPSOIL

- A. Immediately after approval of subgrade, evenly spread and lightly compact approved topsoil to finish grades as indicated on the Drawings. Do not spread topsoil which is in a muddy or frozen condition. Handle no topsoil when dry or above the plastic limit. Install a minimum of six (6") inches of topsoil to lawn areas unless otherwise indicated on the Drawings.
- B. When possible, spreading of topsoil shall be performed from the center of the lawn area to the perimeter. Contractor may use alternate spreading pattern as approved in writing by the Landscape Architect.
- C. Caution should be exercised to minimize or eliminate travel over areas previously covered with topsoil. Topsoil which becomes compacted due to excessive construction activity shall be stripped and re-spread, or loosened as directed by the Landscape Architect at no additional cost to the Owner.

3.03 SEED BED PREPARATION

- A. The minimum depth of topsoil in all lawn areas shall be six (6") inches. Contractor is responsible for supplying all topsoil needed from off-site sources if stockpiles are inadequate.
- B. Grade all lawn areas to finish grades as indicated on the Drawings. When no grades are shown, areas shall have a smooth and continuous grade between existing or fixed controls and elevations shown on plans. Roll, scarify, rake and level as necessary to obtain true even lawn surfaces. All lawn areas shall slope to drain. Finish grades shall be approved by the Landscape Architect prior to commencing any seeding work. Install soil additive per manufacturer's instructions and as indicated on the Drawings.
- C. Place soil amendment in the areas of the lawn areas as shown on the Drawings. Follow the manufacturer's recommendations for installation.
- D. Spreading Limestone: Spread ground limestone evenly over the topsoiled surface. Incorporate limestone within the top two (2") inches of soil prior to finish raking. Apply limestone at the rate recommended by the testing and analysis agency.

3.04 FINISH GRADING

- A. Final surface of topsoil immediately before seeding shall be within $\pm 1/2$ in. of required elevation, with no ruts, mounds, ridges, or other faults, and no pockets or low spots in which water can collect. Stones, roots, and other debris greater than 1 in. in any dimension, which are visible at the surface, shall be removed and the resulting holes filled with topsoil, leaving a uniform planar surface.

- B. Finish grade surface with a drag or rake. Round out all breaks in grade, smooth down all lumps and ridges, fill in all holes and crevices. Rolling with a light roller is acceptable, if the surface is scarified afterward.
- C. In the event of settlement, the Contractor shall readjust the work to required finished grade.

3.05 LAWN SEED APPLICATION

- A. Lawn Seed shall be applied in two applications; first shall be by mechanical spreader; second shall be by hydroseeding method as specified below.
- B. First Application: Lawn seed shall be broadcast by means of an approved mechanical spreader, to give a uniform application at the following rates:

<u>Seed</u>	<u>Application Rate</u>
Lawn Seed Mix	218 lbs. / acre (200 s.f. / lb.)

- 1. Seed shall be applied in two equal applications for uniform coverage; direction of travel of spreader for second pass shall be perpendicular to that of the first pass. Seeding shall not be done when it is raining or snowing, or when wind velocity exceeds 5 mph.
 - 2. Following seeding the area shall be lightly raked to mingle seed with top 1/8 to 1/4 in. of soil. Area shall then be fine graded. Stones and other debris greater than 1 in. in any dimension which are visible on surface shall be removed.
- C. Second Application: Seed shall be spread by the hydroseeding method, utilizing power equipment commonly used for that purpose.
 - 1. Seed, lime, fertilizer, and mulch shall be mixed and applied to achieve application quantities specified herein for the conventional seeding method, with mulch applied at the rate of 1,200 lb./acre. Other provisions specified above for conventional seeding shall apply also to hydroseeding.
 - 2. Mulch shall be applied in two stages with 5% to 10% of the quantity applied with seed and the balance applied separately.
 - 3. Seed shall not be placed in water until immediately before application.
 - 4. Centrifugal pumps shall not be used to apply seed mix without fiber mulch. Hand broadcast or use gear pump.
 - 5. Gelscape shall be incorporated at the rate of 15 lb. per acre.
- D. Following seeding and raking, entire area shall be rolled with a hand roller having a weight of 60 to 90 lb./ft. of width, and a minimum diameter of 2 ft. Entire area shall then be watered by use of lawn sprinklers, or other approved means. Initial watering shall continue until the equivalent of a 2 in. depth of water has been applied to entire seeded surface, at a rate which will not dislodge the seed. Watering shall be repeated thereafter as frequently as required to prevent drying of the surface. Lawn areas shall attain an average height of 1/4 in. Watering methods and apparatus which may cause erosion of the surface shall not be permitted.
- E. Rope off entire seeded area to prevent vehicles and pedestrians from entering area.

3.06 FERTILIZING

- A. At the time of seeding and/or sodding, provide one application of the Starter fertilizer at the manufacturers recommended Normal Rate.
- B. Shall be as determined by a soil test from an approved soil testing laboratory.

3.07 LAWN MAINTENANCE

- A. Maintenance of the grass areas shall begin immediately, and generally consist of watering, weeding, mowing and edging, reseeding, disease and insect pest control, repair of all erosion, and any other procedure consistent with good horticultural practice, necessary to insure normal, vigorous and healthy growth.
- B. Maintenance shall also include filling, regrading, and reseeding as necessary to correct depressions caused by settling, subsidence, or other physical or mechanical damage.
- C. Maintenance shall also include all temporary protection fences, barriers, signs and all other work incidental to proper maintenance.
- D. The Contractor shall be responsible for maintenance to establish a uniform stand of the approved grasses until acceptance. After the grass has started, all areas and parts of areas showing poor germination or growth shall be re-seeded, repeatedly, until all areas are covered with a satisfactory growth of grass. At the time of the first cutting, mow lawn with sharp mowing units not less than two and one half (2-1/2") inches high. Lawn shall be maintained between two and one half inches to three and one half inches (2-1/2"-3-1/2") high. Do not remove more than one third (1/3) of the grass blade. All lawns shall receive a minimum of three mowings before Contractor's request for inspection and acceptance. Additional mowings may be required before acceptance.
- E. Watering: The Contractor shall include cost for daily, and if necessary, continuous watering of all grass areas during a normal 8 hour working day. The seed bed shall be maintained in a continuous moist condition, satisfactory for good germination and growth of grass, as specified. Seeded grass areas must be kept in a moist condition until acceptance.
- F. Full and complete written instructions for maintenance of the lawn areas are to be furnished to the Owner, by the Contractor at least ten (10) days prior to the end of the contractual maintenance period, to familiarize him with the maintenance requirements for proper care and development of the lawns.

3.08 INSPECTION AND ACCEPTANCE

- A. The Landscape Architect shall inspect the lawns upon written request by the Contractor. The request shall be received at least ten (10) days before the anticipated date of inspection.
- B. Final acceptance will not be granted until all lawn areas are in satisfactory condition

July 19, 2018
Bid Documents

Natick Dog Park
111 West Central Street, Natick, MA
WDA Project No. RI0143.00

- C. If the grass is in satisfactory condition, the Contractor's care and maintenance responsibilities will end. If the grass stand is unsatisfactory, the Contractor's maintenance responsibility shall continue, including a normal program of mowing, irrigation, reseeding, fertilization and repair until an acceptable stand of grass is achieved.

3.09 CLEAN UP

- A. Absolutely no debris may be left on the site. Excavated material shall be removed as directed. Repair any damage to site or structures to restore them to their original condition, as directed by the Landscape Architect, at no cost to the Owner.

END OF SECTION

TURF AND GRASSES
32 92 00-11

Erosion and Sedimentation Control Plan

**Natick Dog Park
Natick, MA
2/2018**

Prepared for Owner:
Town of Natick
13 East Central Street
Natick, Massachusetts

Responsibility:
Owner, or assigns will be responsible for implementation of the Erosion and Sedimentation Control Plan for the Natick Dog Park and for any corrective action required.

The existing Middlesex Path parking area will be expanded to create a dog park as well as additional parking. The plan is to expand the dog park from 17 spaces to approximately 28 spaces of which 2 spaces would be ADA compliant. Parking expansion will be made of pervious material. The Dog Park will be approximately 18,655 square feet. The area within the dog park will be partially vegetated with shade trees, on existing topography with a three to four inch thick wood chip surface. The total area of the project has been minimized to under 40,000 square feet. Construction activities shall be sequenced to minimize simultaneous areas of disturbance.

The proposed park is located on three different parcels including Map 42 Lots 45B, 36 and 37. Lake Cochituate is located over 100 feet to the north of the project site and Fisk pond is located approximately 150 ft to the south of the proposed project. The project is located directly to the north of Route 135 West. 100-year flood elevation based upon the most recent Flood Insurance Rate Map is located on the plans. Leaf litter is proposed to be scraped from the interior of the dog park and the wood chip layer will be placed directly above the A horizon.

Erosion control barriers will be in place and are noted on the plan to provide sedimentation and erosion prevention during construction as well as serve as barriers to divert uncontaminated water around disturbed areas. All Erosion and Sediment Control measures shall be installed and maintained in accordance with Town specifications and good engineering practices. Off-site transport of sediment shall be prevented, including sediment tracked by vehicles leaving the site; On and off-site stockpile areas shall be managed by tarp or temporary seeding to provide protection from erosion and sediment transport.

Applicable Federal, State and local laws and regulations shall be complied with fully including on-site construction and waste materials, waste disposal, sanitary sewer or septic system regulations, and air quality requirements, including dust control.

The proposed activities are not in an area mapped by the Massachusetts Natural Heritage & Endangered Species Program as Endangered, Threatened or Of Special Concern, Estimated Habitats of Rare Wildlife and Certified Vernal Pools, and Priority Habitats of Rare Species.

Interim and permanent stabilization measures shall be instituted on a disturbed area as soon as practicable but no more than fourteen (14) days after construction activity has temporarily or permanently ceased on that portion of the site. Any stockpiles will be bound by erosion control barriers and temporarily seeded and/or tarped if left exposed. Any stockpiling material will be within the bounds of the limit of disturbance as described within the proposed project plans.

Siltation and erosion controls shall be employed prior to the commencement of construction on the site, siltation controls shall be placed to prevent soils or other eroded matter from being deposited onto adjacent properties, rights-of-ways,

public storm drainage system, or wetland or watercourse. In no instance shall the bottom of the filter fabric be laid on the ground surface and simply covered with backfill or stone.

Adequate erosion and sedimentation control measures shall be implemented and maintained in their proper effectiveness during the entire construction phase for the project. Such erosion control measures shall be monitored on a daily basis, or as needed, and be reinforced or replaced when needed, per judgment of the site foreman, owner, and/or Conservation Commission. Such erosion and sedimentation control devices shall remain in place until the site has become stabilized with an adequate vegetative cover.

Dust controls, if required, shall be limited to water. No salts or wetting agents shall be used.

No pesticides, herbicides, or fertilizers shall be applied within the 100 ft. buffer zone or the wetland area without approval of the Commission.

Used petroleum products from the maintenance of construction equipment and construction debris shall be collected and disposed of off-site in a prompt and proper manner. On-site disposal of these materials is not allowed.

Materials and equipment shall be stored in a manner and location, which will minimize the compaction of soils and the concentration of runoff. Equipment fuel storage and refueling operations shall be situated in an upland area at a horizontal distance greater than 100 ft. from the boundaries of the resource areas. If a spill occurs, contaminated soils shall be removed according to guidelines established by the DEP Division of Hazardous Waste.

Approximately 50 cubic yards of on-site, clean, native material will be used to fill in the existing deeper depressions within the limits of the dog park. This fill will come from the material that will be removed from the embankment for the construction of the new parking spaces. Any fill shall contain no trash, refuse, rubbish, or debris. Any unused native fill material will be disposed of according to local, state and federal law.

Timing and sequence of development follows:

Mobilize

Install construction entrance

Tree protection for trees to remain

Cut trees and brush within development area. Stumps to remain

Erosion control measures installed

Tree stumps and brush removed and disposed

Rough grading

Stormwater basins and temporary diversion swales constructed

Establish stockpile areas and protect with erosion control

Final grading

Install site amenities and plant material

Stabilize and seed disturbed areas as soon as practicable but no more than 14 days after work has been completed in that area

The Stormwater Report's hydrology plans shows the pre and post construction watershed boundaries, drainage area and stormwater flow paths.

STORMWATER MANAGEMENT SYSTEM
OPERATION AND MAINTENANCE PLAN
LONG TERM POLLUTION PREVENTION PLAN

Natick Dog Park
Natick, MA

12/2017

PREPARED FOR:

Town of Natick
13 East Central Street
Natick, Massachusetts

RESPONSIBILITY:

Owner, or assigns will be responsible for implementation of the Operation and Maintenance Plan for the stormwater management system and Long-Term Pollution Prevention Plan for the Natick Dog Park and for any corrective action required.

SITE CONDITIONS:

The stormwater management system for the site includes porous pavers, closed drainage system, infiltration basins.

INFILTRATION BASIN(S) AND/OR DETENTION BASIN(S):

1. The basin(s) shall be inspected for accumulated sediment at least twice per year and sediment shall be removed when depth is 12 inches or at least once every 10 years.
2. Basins shall be inspected at least twice per year and immediately following large storm events to determine if the basin is functioning as intended. Inspections should be conducted during wet weather to determine if the basin is meeting the targeted detention times (24-hour average detention time). The basins shall be checked for slope integrity, soil moisture, vegetative health, soil stability, soil compaction, soil erosion, ponding, and sedimentation. Any necessary repairs shall be made immediately.
3. During the first few months following construction, the basin shall be inspected to ensure that the proposed vegetation becomes adequately established.
4. At least twice during the growing season, the basin, side slopes, and embankments shall be mowed and accumulated trash and debris removed.
5. To maintain the dense growth of vegetation, periodic reseeding shall be performed.

6. Basins shall not be used for snow removal and yard waste disposal.
7. Outlet control structures, headwalls, and riprap aprons or riprap stilling basins shall be checked a minimum of once per year for evidence of clogging or flow restrictions and cleared as necessary. Any debris or accumulated sediments which could hinder flows shall be removed and disposed.

LAWN/LANDSCAPE MAINTENANCE:

1. Perform a Spring Clean-up of the entire property and perimeter to include lawn areas and plant beds. Typically, this activity is conducted in the months of March/ April.
 - a. Remove and dispose of leaves, branches, debris, and litter off site in environmentally approved manner.
 - b. All lawn areas to be thatched, then raked or blown to remove thatch.
 - c. All plant beds, walks and garden edges to be power edged.
2. All dead or dying plant material shall be replaced upon the completion of the Spring Clean Up.
3. Perform a Fall Clean-up of the entire property and perimeter to include lawn areas and plant beds. Typically, this activity is performed and all areas cleaned before the first snow fall.
 - a. Remove and dispose of dead or dying annual plantings, leaves, branches, pine cones, needles, acorns debris, and litter off site in environmentally approved manner.
 - b. Cut back perennials and ornamental grasses.
4. Mulching
 - a. Turning of existing mulch beds and adding new mulch to be performed in the spring, during/ after spring clean-up. Care shall be taken not to uproot any dormant perennials or ornamental grasses.
 - b. Add new mulch to bed areas. Care shall be taken not to bury any dormant perennials or ornamental grasses.
 - c. New mulch to be dark brown shredded pine bark applied after spring clean-up.
5. Mowings
 - a. Lawn-turf control includes all maintenance required to produce green and healthy grass, and include on average 30 weekly mowings for lawn areas within the limits of the development.
 - b. The use of mulching equipment is desired to allow clippings to add nutrients back to the soil. Clippings to be bagged in areas adjacent to the sidewalks and porous pavers. Mulched clippings shall not be bagged in other areas unless otherwise approved.
 - c. Remove and dispose of any clippings or maintenance debris off site in an environmentally approved manner.
 - d. Sidewalks and the parking lot shall be blown off following mowing to remove grass clippings'

December 2017

6. Limit lawn watering: chose drought-tolerant landscaping and grasses, and use mulch and compost to retain moisture.
7. Under no circumstance shall the stormwater management system be used for yard waste and landscape debris.

DEICING:

1. The use and loading rates for application of deicing salts should be limited to the minimum required to maintain safe vehicular and pedestrian travel.
2. Alternative materials such as sand or gravel, calcium chloride, and calcium magnesium acetate should be considered in areas adjacent stormwater management facilities and resource areas.
3. No deicing materials shall be stored anywhere on site.

SNOW MANAGEMENT:

1. Snow shall be stockpiled in pervious areas as indicated on the plans where it can slowly infiltrate. Under no circumstance shall the stormwater management system be used for snow storage.
2. Avoid dumping/piling snow over catch basins or in drainage channels to prevent blockages and localized flooding of the drainage system.
3. The Owner shall be responsible to manage snow storage on-site and to ensure that snow is not stockpiled in the basins.
4. Snow beyond the capacity of the snow storage areas shown on the plans shall be removed from the site within 48 hours.
5. Sediments deposited from the snow storage areas shall be removed every spring.

SWEEPING OF PAVED SURFACES:

1. All paved surfaces on-site including driveways, walkways and parking areas both paved and porous pavers areas shall be swept at least once annually to remove accumulations of sand, silt, leaves, and other debris.
2. Sweeping should occur in March/April after snowmelt has occurred and thaw has begun. Sweepings shall be disposed of at an appropriate location away from resource areas (wetlands or waterways) and stormwater management facilities.

WOOD CHIP SURFACE:

1. The wood chip surface within the limits of the dog park shall be monitored every spring and fall to ensure there is a 3-4" depth of wood chips at all times.

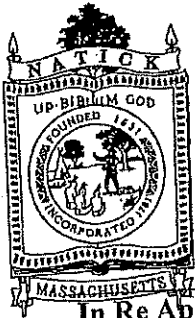
2. Existing wood chips shall remain in place and new wood chips shall be added to the surface as necessary.
3. Wood chips shall be delivered to the site via the maintenance drive and spread immediately upon delivery.

POROUS PAVERS:

1. No materials shall be stockpiled on the porous pavers.
2. Grass clippings and debris shall be blown, collected and removed from pavers after lawn areas have been mowed.
3. Monitor pavers for proper infiltration after large rain events.
4. Remove visible weeds and sediment from paver joints. Vacuum debris and replenish joints with specified aggregate as necessary.
5. See sweeping of paved surfaces sections above. Additional sweeping of porous pavers shall occur in the fall prior to the first snow fall.
6. Refer to manufacturer's maintenance guide for additional maintenance guidelines.

CRUSHED STONE FINES MAINTENANCE DRIVE:

1. The crushed stone surface within the limits of the maintenance drive shall be monitored every spring and fall to ensure there is a minimum 2 ½" depth of granite chip stone. Base material shall not be disturbed.
2. Additional stone shall be provided and compacted in place to ensure minimum depth as necessary.



**COMMUNITY AND ECONOMIC
DEVELOPMENT**
BEFORE THE NATICK PLANNING BOARD

BUILDING

PLANNING

ZONING

CONSERVATION

In Re Application of:
Middlesex Path Dog Park
111 West Central Street
Natick, MA 01760

Decision: 19-18

Parcel: Assessors' Maps 42, Lot 45B
Map 42 Lot 36
Map 42 Lot 37

SPECIAL PERMIT - AQUIFER PROTECTION DISTRICT

Statement of Facts:

This decision relates to the renovations to the park at the Middlesex Path for a proposed Dog Park, including the creation of a dog park area, walking paths, and additional parking. A site plan was prepared by Waterman Design Group, 31 East Main St Westborough, MA and consists of the following drawings:

<u>Sheet</u>	<u>Title</u>	<u>Last Revision Date</u>
C1.01	Existing Conditions Plan	March 7, 2018
C2.01	Layout, Materials and Planting Plan	March 7, 2018
C3.01	Grading, Drainage and Utilities Plan	March 7, 2018
C4.01	Details	March 7, 2018
C4.02	Details	March 7, 2018
C4.03	Details	March 7, 2018
C4.04	Details	March 7, 2018
C4.05	Details	March 7, 2018
C4.06	Details	March 7, 2018

Statement of Facts of Public Hearing:

Notice of the Public Hearing by the Board on the matter of Aquifer Protection District was published in the Metro West Daily News on February 13, 2018, and then again on February 20, 2018. Notice of the hearing was also sent to all "parties of interest" as certified by the Boards of Assessors of the Town of Natick and posted in the Town Hall as required by Chapter 40A, Section 11, Massachusetts General Laws.

The Public Hearing by the Board on the matter of Aquifer Protection District was held on February 28, 2018, continued to March 7, 2018 and March 14, 2018, when the Board voted to close the Public Hearing.

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MARCH 12, 2018
PM 12:45

At the public hearings, the Applicant presented testimony on behalf of the Application and comments were received from the public and Town Departments.

Reports of Town Agencies:

Board received final reports from Health Department Director, Jim White, dated December 4, 2017. Victoria Parsons, Conservation Agent and General Planner received comments via e-mail from the Town Engineer, William McDowell, on October 19, 2017. Board received reports from Victoria Parsons, Conservation Agent and General Planner, dated December 6, 2017 and January 10, 2018. A memo from Dave Gusmini was received on January 2, 2018. Such reports are retained in the files of the Board.

Findings:

After considering all of the information and materials that it has received, including the Plans, reports of the Applicant's consultants, correspondence it has received and comments made at the Public Hearing, the Board makes the following findings relative to the Applicant's compliance with the requirements of Development in the Aquifer Protection District.

A. Aquifer Protection District Section III-A.5

The purpose and intent of the Aquifer Protection District (hereinafter referred to as "APD") is to protect, preserve and maintain the existing and potential groundwater supply and recharge areas within the Town of Natick by the imposition of conditions, when necessary, for use of the underlying land.

Section III-A.5 (4) sets forth the Permitted Uses within the APD. The section states that unless prohibited by other sections of the Zoning Bylaw, the uses permitted by the underlying district, either as a matter of right or pursuant to a special permit shall continue to be permitted uses in the APD.

The parcel is located in the Residential Single A (RSA) Zoning District the Applicant has proposed to install a dog park (an Institutional/Allowed Use) and as such the proposed use is a Permitted Use under Section III-A.5 (4).

Section III-A.5 (5) sets forth the Prohibited Uses within the APD. This section provides the specific uses that are prohibited from occurring within the APD. The Board finds that the project is not considered a "Prohibited Use" under Section III-A.5 (5).

The Board specifically finds that the project is not considered to include the "disposal of liquid or leachable waste" per Section III-A.5 (5b) of the Natick Zoning Bylaws. The Board determined that:

- The project does not include an act of "disposal" (i.e. the bringing of liquid or leachable waste to the site from offsite.)
- There is no overt act to transfer, alienate, or direct the ownership of property or substance(s).
- There is no prior collection or concentration of material or substance that is brought to the site.
- There are no collection points or engineered systems by which liquid or leachable waste is being disposed of on site as part of the project.

Board finds that the sole incursion to a level below 5 feet above the existing approximate spring high water level is a specifically designed infiltration component of site drainage.

Section III-A.5 (7) sets forth the Special Procedures for the issuance of a Special Permit in the APD. The site lies within the Aquifer Protection District (APD). The APD regulation (Section III-A.5 (7), Special Procedures Regarding the Issuance of Special Permits in the APD District) requires: "...a design to maintain aquifer recharge at pre-permit amounts where the impervious surface will exceed 20% of the lot area, and a design to cleanse and filter the runoff from such impervious surfaces recharged to the aquifer...." The Board finds the design 1) does not create a condition where 20% of impervious surface area is exceeded, and 2) the design conforms to the intent of the APD.

Pursuant to Section III-A.5 (7) (d), the Board makes the following findings relative to the Applicant's proposal:

1. The parcel is located in the Residential Single A (RSA) Zoning District and the Aquifer Protection District and the proposed use is consistent with the purpose and intent of the RSA District and the APD.
2. The proposed use is appropriate to the natural topography, soils and other characteristics of the site.
3. The Applicant's proposal includes a variety of environmental remediation steps, including the installation of a groundwater monitoring well for pre-use and future testing as deemed necessary, which will benefit (and ensure no negative impact to) the Aquifer.
4. The proposed use will not have a detrimental impact on the Aquifer water supply during construction or thereafter, and such impact will be confirmed through the installation of a groundwater monitoring well for pre-use and future testing as deemed necessary.

Decision:

After deliberation and consideration of all of the foregoing, and after making the specific findings as set forth herein, the Planning Board, at its meeting on March 14, 2018, voted to approve the grant of a Special Permit pursuant to Section III-A.5 of the Natick Zoning By-Laws, subject to the following condition:

- The applicant shall install a groundwater monitoring well proximate to the proposed use. An initial test of the groundwater shall occur prior to the use of the site as a dog park. The monitoring well shall remain functional for future testing, as deemed necessary by the Conservation Commission or Planning Board.
- The site is subject to the Operation and Maintenance Plan approved by the Conservation Commission, dated December 2017 and which is incorporated into this Decision by reference.


NATICK PLANNING BOARD

<u>John May</u>	<u>Yes</u>	<u>Joe Wood</u>	<u>yes</u>
<u>John May</u>	<u>Yes</u>	<u>Emilia</u>	<u>yes</u>

Date: March 14, 2018

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7

JUDGMENT ON MOTION TO DISMISS		Trial Court of Massachusetts The Superior Court 
DOCKET NUMBER 1881CV01009		Michael A. Sullivan, Clerk of Court Middlesex County
CASE NAME Melissa E Probst et al vs. Town of Natick Planning Board et al		COURT NAME & ADDRESS Middlesex County Superior Court - Woburn 200 Trade Center Woburn, MA 01801
JUDGMENT FOR THE FOLLOWING DEFENDANT(S) (See page two for additional Defendants) Town of Natick Planning Board Andrew Meyer As Chairperson of Planning Board Natick Terri Evans As member of Planning Board Natick Glen Glater As member of Planning Board Natick Julian Munnich As member of Planning Board Natick Peter Nottonson As member of Planning Board Natick		
JUDGMENT AGAINST THE FOLLOWING PLAINTIFF(S) Probst, Melissa E Kenny, J Barr		
<p>This action came on before the Court, Hon. Christopher K Barry-Smith, presiding, and upon review of the motion to dismiss pursuant to Mass. R.Civ.P. 12(b),</p> <p>It is ORDERED AND ADJUDGED:</p> <p>That the plaintiff's complaint be and hereby is DISMISSED.</p>		
DATE JUDGMENT ENTERED 03/08/2019	<i>Deputy</i> CLERK OF COURTS/ ASST. CLERK <i>X. Doreen Certusi</i>	

JUDGMENT ON MOTION TO DISMISS ADDITIONAL PARTIES TO THE JUDGMENT	DOCKET NUMBER 1881CV01009	Trial Court of Massachusetts The Superior Court
ADDITIONAL DEFENDANT(S) TO THE JUDGMENT: Wadsworth, Planning Board Natick Associate Member, John		
ADDITIONAL PLAINTIFF(S) TO THE JUDGMENT:		
DATE JUDGMENT ENTERED 03/08/2019	<i>Deputy</i> CLERK OF COURTS/ ASST. CLERK X <i>Doreen Certusi</i>	


Date/Time Printed: 03-08-2019 12:08:09

SCV0831 03/2016

CERTIFICATE OF SERVICE

I, Karis L. North, hereby certify that I have this day forwarded a copy of the foregoing document via First Class Mail to the following counsel of record:

Irfan Nasrullah, Esq.
Law Office of Irfan Nasrullah
81 Main Street
Hopkinton, MA 01748


Karis L. North

Dated: August 23, 2018

1076126

3/8/19. After hearing and substantially, for the reasons set forth in Natick's motion and memorandum, the motion to dismiss is allowed due to plaintiffs failure to conform to the procedural requirements of G.L.c. 40A, §17. Specifically, plaintiffs failed to provide the Natick clerk with notice of this action, together with the complaint within 20 days of the decision which plaintiffs appeal. This 20 day period coincides with the 20 day period in which plaintiffs must file the complaint. Here, the special permit ~~was~~ was issued on March 20, 2018. Plaintiffs filed their complaint by April 9, 2018 but did not file notice with the clerk.

Plaintiff posits that the second paragraph provides an alternative procedure when a complaint is filed, as this one was, by a third party who was not the applicant, appellant or petitioner below. However, paragraph 1 of §17 by its terms applies to third parties ("Any person aggrieved... whether or not previously a party to the proceeding..."). The second paragraph thus provides obligations in addition to the first paragraph, not supplanting them. Because these procedural requirements are jurisdictional, and strictly construed, the complaint is dismissed. See memorandum in support and cases cited. So ordered.

 J.



**COMMUNITY AND ECONOMIC
DEVELOPMENT
BEFORE THE NATICK PLANNING BOARD**

BUILDING

PLANNING

ZONING

CONSERVATION

**In Re Application of:
Middlesex Path Dog Park
111 West Central Street
Natick, MA 01760**

Decision: 19-18

**Parcel: Assessors' Maps 42, Lot 45B
Map 42 Lot 36
Map 42 Lot 37**

SPECIAL PERMIT - AQUIFER PROTECTION DISTRICT

Statement of Facts:

This decision relates to the renovations to the park at the Middlesex Path for a proposed Dog Park, including the creation of a dog park area, walking paths, and additional parking. A site plan was prepared by Waterman Design Group, 31 East Main St Westborough, MA and consists of the following drawings:

<u>Sheet</u>	<u>Title</u>	<u>Last Revision Date</u>
C1.01	Existing Conditions Plan	March 7, 2018
C2.01	Layout, Materials and Planting Plan	March 7, 2018
C3.01	Grading, Drainage and Utilities Plan	March 7, 2018
C4.01	Details	March 7, 2018
C4.02	Details	March 7, 2018
C4.03	Details	March 7, 2018
C4.04	Details	March 7, 2018
C4.05	Details	March 7, 2018
C4.06	Details	March 7, 2018

Statement of Facts of Public Hearing:

Notice of the Public Hearing by the Board on the matter of Aquifer Protection District was published in the MetroWest Daily News on February 13, 2018, and then again on February 20, 2018. Notice of the hearing was also sent to all "parties of interest" as certified by the Boards of Assessors of the Town of Natick and posted in the Town Hall as required by Chapter 40A, Section 11, Massachusetts General Laws.

The Public Hearing by the Board on the matter of Aquifer Protection District was held on February 28, 2018, continued to March 7, 2018 and March 14, 2018, when the Board voted to close the Public Hearing.

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At the public hearings, the Applicant presented testimony on behalf of the Application and comments were received from the public and Town Departments.

Reports of Town Agencies:

Board received final reports from Health Department Director, Jim White, dated December 4, 2017. Victoria Parsons, Conservation Agent and General Planner received comments via e-mail from the Town Engineer, William McDowell, on October 19, 2017. Board received reports from Victoria Parsons, Conservation Agent and General Planner, dated December 6, 2017 and January 10, 2018. A memo from Dave Gusmini was received on January 2, 2018. Such reports are retained in the files of the Board.

Findings:

After considering all of the information and materials that it has received, including the Plans, reports of the Applicant's consultants, correspondence it has received and comments made at the Public Hearing, the Board makes the following findings relative to the Applicant's compliance with the requirements of Development in the Aquifer Protection District.

A. Aquifer Protection District Section III-A.5

The purpose and intent of the Aquifer Protection District (hereinafter referred to as "APD") is to protect, preserve and maintain the existing and potential groundwater supply and recharge areas within the Town of Natick by the imposition of conditions, when necessary, for use of the underlying land.

Section III-A.5 (4) sets forth the Permitted Uses within the APD. The section states that unless prohibited by other sections of the Zoning Bylaw, the uses permitted by the underlying district, either as a matter of right or pursuant to a special permit shall continue to be permitted uses in the APD.

The parcel is located in the Residential Single A (RSA) Zoning District the Applicant has proposed to install a dog park (an Institutional/Allowed Use) and as such the proposed use is a Permitted Use under Section III-A.5 (4).

Section III-A.5 (5) sets forth the Prohibited Uses within the APD. This section provides the specific uses that are prohibited from occurring with the APD. The Board finds that the project is not considered a "Prohibited Use" under Section III-A.5 (5).

The Board specifically finds that the project is not considered to include the "disposal of liquid or leachable waste" per Section III-A.5 (5b) of the Natick Zoning Bylaws. The Board determined that:

- The project does not include an act of "disposal" (i.e. the bringing of liquid or leachable waste to the site from offsite.)
- There is no overt act to transfer, alienate, or direct the ownership of property or substance(s).
- There is no prior collection or concentration of material or substance that is brought to the site.
- There are no collection points or engineered systems by which liquid or leachable waste is being disposed of on site as part of the project.

Board finds that the sole incursion to a level below 5 feet above the existing approximate spring high water level is a specifically designed infiltration component of site drainage.

Section III-A.5 (7) sets forth the Special Procedures for the issuance of a Special Permit in the APD. The site lies within the Aquifer Protection District (APD). The APD regulation (Section III-A.5 (7), Special Procedures Regarding the Issuance of Special Permits in the APD District) requires: "...a design to maintain aquifer recharge at pre-permit amounts where the impervious surface will exceed 20% of the lot area, and a design to cleanse and filter the runoff from such impervious surfaces recharged to the aquifer...." The Board finds the design 1) does not create a condition where 20% of impervious surface area is exceeded, and 2) the design conforms to the intent of the APD.

Pursuant to Section III-A.5 (7) (d), the Board makes the following findings relative to the Applicant's proposal:

1. The parcel is located in the Residential Single A (RSA) Zoning District and the Aquifer Protection District and the proposed use is consistent with the purpose and intent of the RSA District and the APD.
2. The proposed use is appropriate to the natural topography, soils and other characteristics of the site.
3. The Applicant's proposal includes a variety of environmental remediation steps, including the installation of a groundwater monitoring well for pre-use and future testing as deemed necessary, which will benefit (and ensure no negative impact to) the Aquifer.
4. The proposed use will not have a detrimental impact on the Aquifer water supply during construction or thereafter, and such impact will be confirmed through the installation of a groundwater monitoring well for pre-use and future testing as deemed necessary.

Decision:

After deliberation and consideration of all of the foregoing, and after making the specific findings as set forth herein, the Planning Board, at its meeting on March 14, 2018, voted to approve the grant of a Special Permit pursuant to Section III-A.5 of the Natick Zoning By-Laws, subject to the following condition:

- The applicant shall install a groundwater monitoring well proximate to the proposed use. An initial test of the groundwater shall occur prior to the use of the site as a dog park. The monitoring well shall remain functional for future testing, as deemed necessary by the Conservation Commission or Planning Board.
- The site is subject to the Operation and Maintenance Plan approved by the Conservation Commission, dated December 2017 and which is incorporated into this Decision by reference.

NATICK PLANNING BOARD

<u>John May</u>	<u>Yes</u>	<u>Joe Woot</u>	<u>yes</u>
<u>John May</u>	<u>Yes</u>	<u>Emilia</u>	<u>yes</u>
_____	_____	_____	_____

Date: March 14, 2018

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COMMUNITY AND ECONOMIC DEVELOPMENT

BEFORE THE NATICK PLANNING BOARD

BUILDING

PLANNING

ZONING

CONSERVATION

In Re Application of:
Middlesex Path Dog Park
111 West Central Street
Natick, MA 01760

Parcel: Assessors' Maps 42, Lot 45B
Map 42 Lot 36
Map 42 Lot 37

Decision: 20-18

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SITE PLAN APPROVAL

Statement of Facts:

This decision relates to the renovations to the park at the Middlesex Path for a proposed Dog Park, including the creation of a dog park area, walking paths, and additional parking. A site plan was prepared by Waterman Design Group, 31 East Main St Westborough, MA and consists of the following drawings:

<u>Sheet</u>	<u>Title</u>	<u>Last Revision Date</u>
C1.01	Existing Conditions Plan	March 7, 2018
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C4.02	Details	March 7, 2018
C4.03	Details	March 7, 2018
C4.04	Details	March 7, 2018
C4.05	Details	March 7, 2018
C4.06	Details	March 7, 2018

Statement of Facts of Public Hearing:

Notice of the Public Hearing by the Board on the matter of Site Plan Approval was published in the MetroWest Daily News on November 22, 2017, and then again on November 29, 2017. Notice of the hearing was also sent to all "parties of interest" as certified by the Boards of Assessors of the Town of Natick and posted in the Town Hall as required by Chapter 40A, Section 11, Massachusetts General Laws.

The Public Hearing by the Board on the matter of Site Plan Review was commenced on December 6, 2017 and was continued to January 10, 2018, January 24, 2018, February 28, 2018, March 7, 2018, and March 14, 2018 when the Board voted to close the Public Hearing.

At the public hearings, the Applicant presented testimony on behalf of the Application and comments were received from the public and Town Departments.

Reports of Town Agencies:

Board received final reports from Health Department Director, Jim White, dated December 4, 2017. Victoria Parsons, Conservation Agent and General Planner received comments via e-mail from the Town Engineer, William McDowell, on October 19, 2017. Board received reports from Victoria Parsons, Conservation Agent and General Planner, dated December 6, 2017 and January 10, 2018. A memo from Dave Gusmini was received on January 2, 2018. Such reports are retained in the files of the Board.

Findings:

After considering all of the information and materials that it has received, the Board makes the following findings:

1. The parcel is located in the Residential Single A (RSA) Zoning District and the Planning Board is acting as the SPGA (Special Permit Granting Authority) for Site Plan Review under Section VI-DD of the Zoning Bylaws. The Planning Board does not have jurisdiction to consider the appropriateness of the proposed use at the proposed site, as this is under the jurisdiction of other Town boards/committees.
2. The Site Plan as referenced within this decision is in compliance with Section VI-DD.3 of the Natick Zoning By-Laws (Site Plan General Requirements).
3. The project/applicant is granted the requested waiver from the submission of a Traffic Study due to the use's minimal impact to the area roadway network and anticipated peak usage times, which are during non-peak times of the main access road to the project site (Route 135).

4. With respect to the criteria for approval required by Section VI-DD.5a-f of the Natick Zoning By-Laws, the following findings are made:
- a. Compliance with Zoning By-Law: The project complies with all other provisions of the Zoning By-Law.
 - b. Protection of Adjoining Premises: The project seeks to protect adjoining premises by improving drainage, landscaping, and access through numerous site improvements.
 - c. Convenience and Safety of Vehicular and Pedestrian Movement: Site vehicular access is not changing. Upgrades are proposed to existing site pedestrian circulation and the future site plan provides for adequate convenience and safety of pedestrian and vehicle movement.
 - d. Disposal of Wastes: No disposal of waste is considered on site for this project. All incidental waste will be disposed of properly off site as noted in the Operations and Maintenance plan for the site.
 - e. Prevention of Pollution: Site upgrades are proposed to ensure the prevention of pollution and/or site runoff including the installation of bio-retention areas, use of pervious surface materials, and the use of materials within the project area (i.e. wood chips), where appropriate.
 - f. Protection of Significant Features: The project does not impact significant site features, and improves existing site features through the removal of invasive plant species, dead or dying hazard trees, and the installation of new native trees and plantings to the site.
5. With respect to the standards for Site Plan Review required by Section VI-DD.6, the following findings are made for the project:
- a. Preservation of Landscape: The final site plan adequately preserves the existing landscape and provides improved landscaping associated with the area being disturbed.
 - b. Relation of Buildings to Environment: No buildings are proposed on site.
 - c. Open Space: The site remains as open space for the enjoyment of the public.
 - d. Circulation: As noted in Finding 4. c.; significant improvements occur to site circulation for vehicles and pedestrians
 - i. Vehicular entrances and access from existing streets: No changes are proposed.
 - ii. Access points, interior circulation, parking: Significant upgrades are made to ensure ADA compliance and multiple access points for all users of the park. The approved plans include areas for the expansion of parking if required in future.
 - iii. Pedestrian circulation, walkways, access points, separation of pedestrian and vehicular traffic: Significant upgrades are made to ensure ADA compliance and multiple access points for all users of the park, and to protect such users from vehicular access to/from the park.
 - e. Surface Water Drainage: significant upgrades are proposed to mitigate/retain surface water drainage from the project on site;



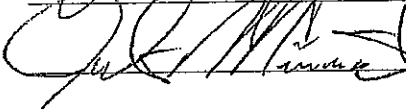
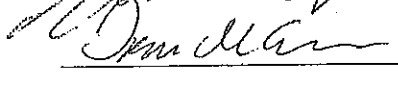
- f. Groundwater Recharge and Quality Preservation: In conjunction with surface drainage improvements, significant upgrades are proposed to improve/mitigate groundwater recharge and quality from the project,
- g. Utilities: The project includes the installation of a new water line to the site, which is adequate for the project.
- h. Advertising: No signage proposed at this time.
- i. Other Site Features: No other site features.
- j. Safety: The site improvements are situated to facilitate accessibility and visibility by fire, police and other emergency personnel and equipment.

Decision:

After deliberation and consideration of all of the foregoing, and after making the specific findings as set forth herein, the Planning Board, at its meeting on March 14, 2018, voted to **grant** Site Plan Approval pursuant to Section VI-DD of the Natick Zoning Bylaws, subject to the following conditions:

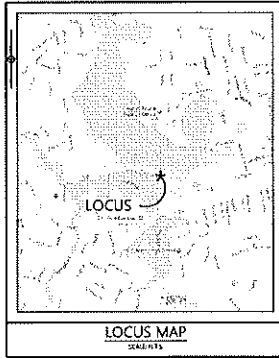
1. Any proposed construction, changes or modifications to site parking, sidewalks, or vehicle circulation not included as outlined within this decision, shall be brought before the Planning Board for review prior to completion;
2. The project shall comply with all requirements as outlined in Section III-A.5(5) (Aquifer Protection District) of the Natick Zoning Bylaw.
3. All construction shall be carried out generally in accordance with the Final Site Plan in all material respects.
4. A copy of the approved Final Site Plan and a digital file copy in a file format acceptable to CED and DPW shall be provided to the Board prior to the start of construction,
5. The applicant shall install a groundwater monitoring well proximate to the proposed use. An initial test of the groundwater shall occur prior to the use of the site as a dog park. The monitoring well shall remain functional for future testing, as deemed necessary by the Conservation Commission or Planning Board.
6. The site is subject to an Operation and Maintenance Plan approved by the Conservation Commission, dated December 2017 and which is incorporated into this Decision by reference.

NATICK PLANNING BOARD

	Yes		yes
	YES		YES

Date: March 14, 2018

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TOWN CLERK-NATICK



PREPARED BY:



OWNER:

INHABITANTS OF THE
TOWN OF NATICK
13 East Central Street
Natick, Massachusetts

PREPARED FOR:

TOWN OF
NATICK
13 East Central Street
Natick, Massachusetts

SITE PLANS

BID DRAWINGS

FOR

NATICK DOG PARK

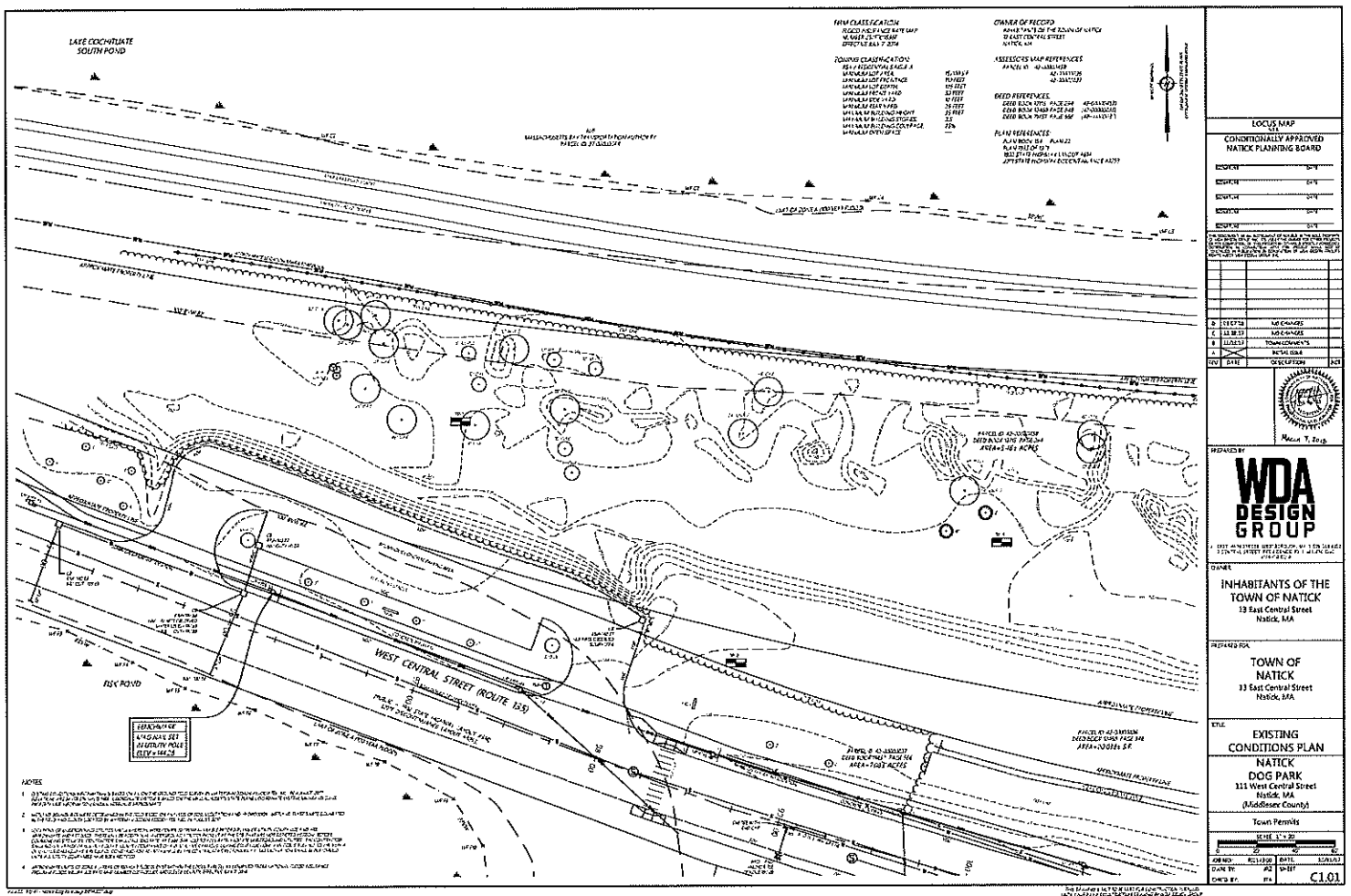
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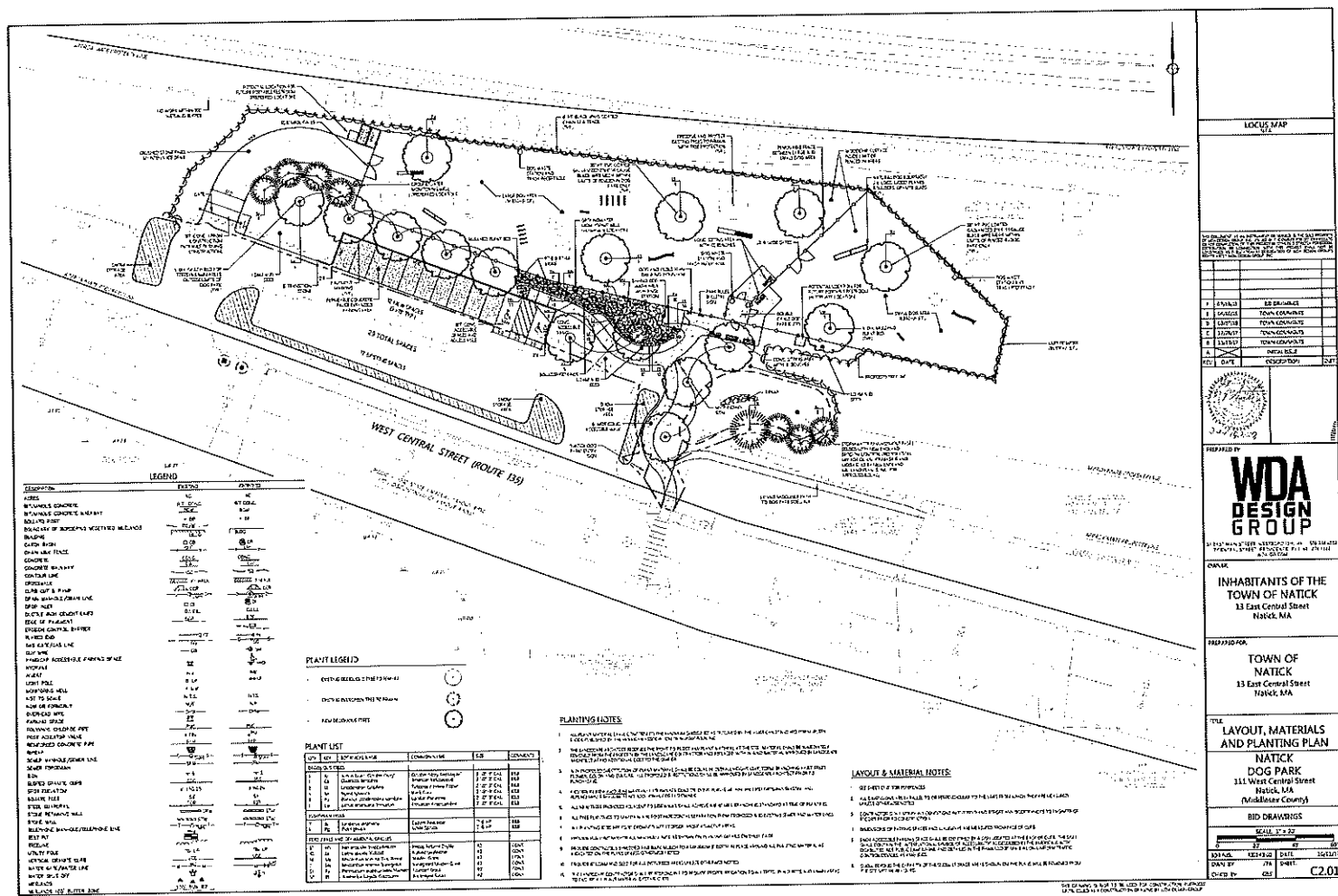
Natick, Massachusetts
(Middlesex County)

DATE: October 11, 2017
Revised: November 13, 2017
December 28, 2017
March 7, 2018
April 16, 2018
July 19, 2018

SHEET LIST:

C1.01	EXISTING CONDITIONS PLAN
C2.01	LAYOUT, MATERIALS AND PLANTING PLAN
C3.01	GRADING, DRAINAGE AND UTILITY PLAN
C4.01	DETAILS
C4.02	DETAILS
C4.03	DETAILS
C4.04	DETAILS
C4.05	DETAILS
C4.06	DETAILS





LOCUS MAP

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PREPARED BY
**WDA
DESIGN
GROUP**

**INHABITANTS OF THE
TOWN OF NATICK**
13 East Central Street
Natick, MA

TOWN OF
NATICK
13 East Central Street
Natick, MA

**THE
LAYOUT, MATERIALS
AND PLANTING PLAN**

**NATICK
DOG PARK**
111 West Central Street
Natick, MA
(Middlesex County)

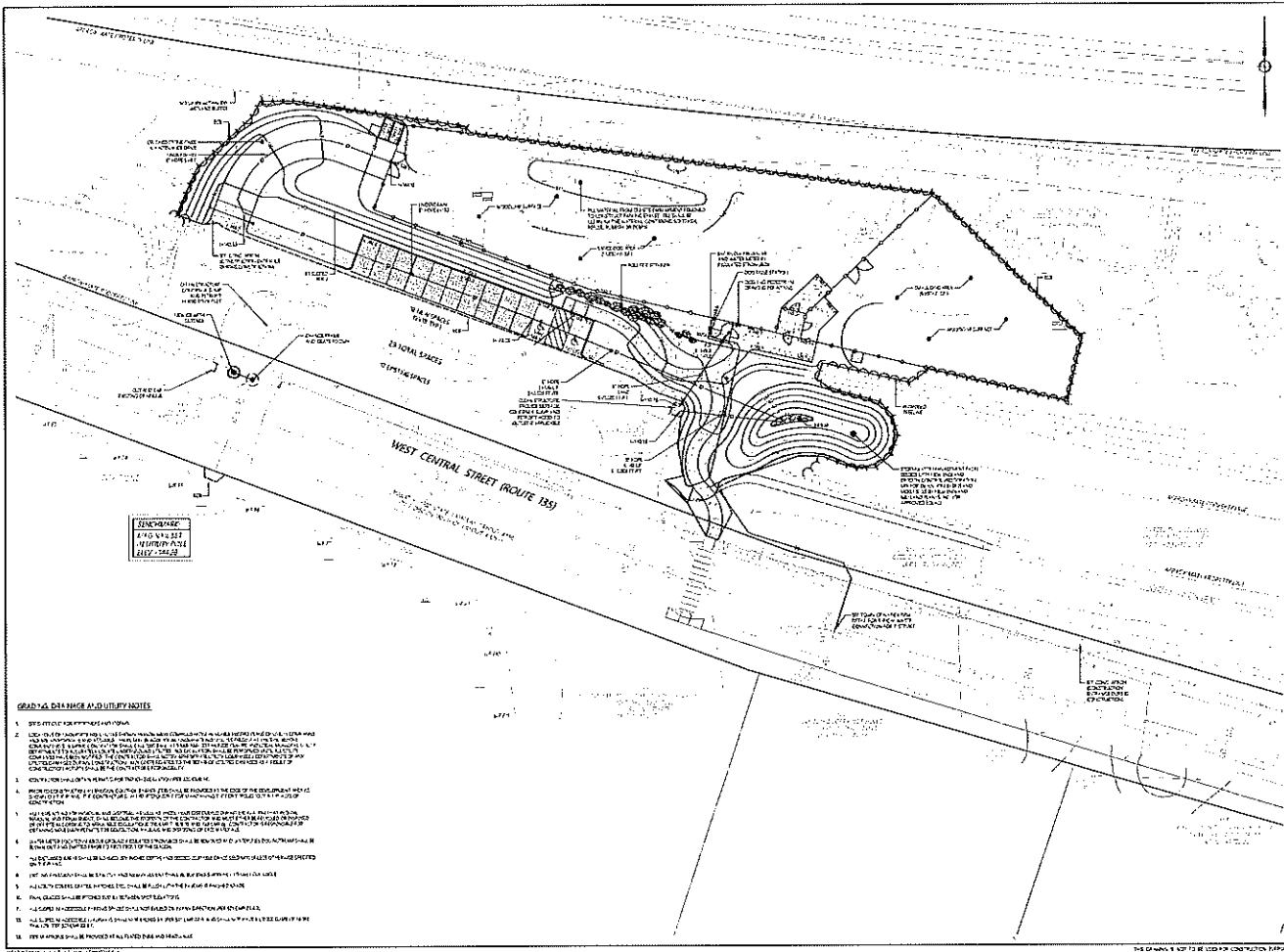
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SCALE: 3" = 20'

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- GRADING, DRAINAGE AND UTILITY NOTES**
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WDA

DESIGN

GROUP

111 East Central Street

Natick, MA

508-653-1234

INHABITANTS OF THE

TOWN OF NATICK

111 East Central Street

Natick, MA

TOWN OF

NATICK

111 East Central Street

Natick, MA

GRADING, DRAINAGE

AND UTILITY PLAN

NATICK

DOG PARK

111 East Central Street

Natick, MA

(Middlesex County)

BID DRAWINGS

SCALE: 1" = 20'

DATE: 08/11/2011

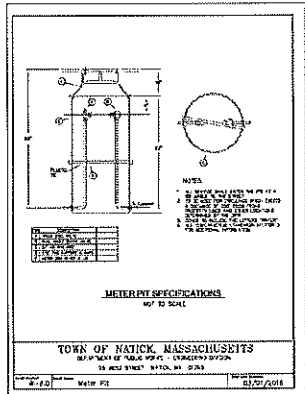
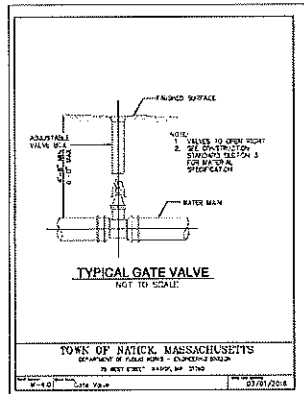
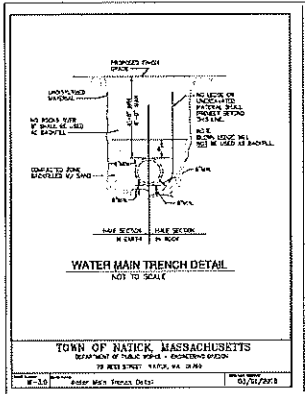
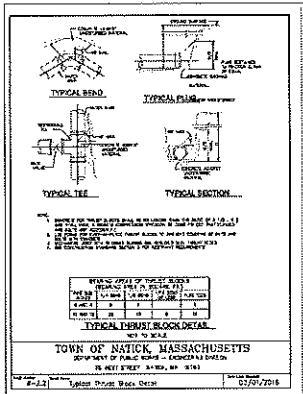
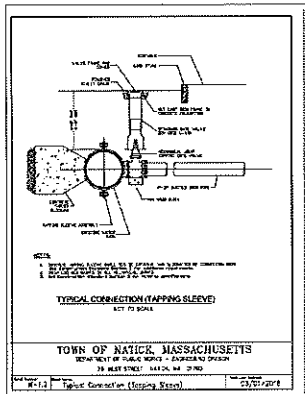
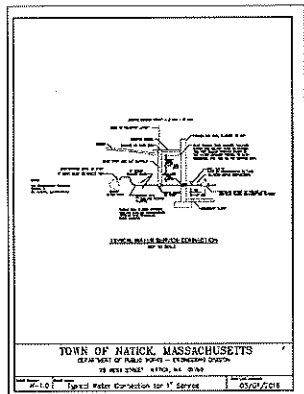
BY: J. J. J.

CHECKED: J. J. J.

DATE: 08/11/2011

BY: J. J. J.

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1. What is the main purpose of the document?
The main purpose of the document is to provide a comprehensive overview of the company's financial performance for the year 2023, including a detailed analysis of the income statement, balance sheet, and cash flow statement.

2. What are the key findings from the financial statements?
The key findings from the financial statements are as follows:
- The company achieved a net income of \$1,200,000 for the year 2023, representing a 15% increase from the previous year.
- The total assets of the company increased by 10% to \$5,000,000, while the total liabilities decreased by 5% to \$2,500,000.
- The company's cash and cash equivalents increased by 20% to \$1,500,000, indicating a strong cash position.

3. What are the major risks and challenges facing the company?
The major risks and challenges facing the company are:
- Increased competition in the market, which may lead to a decrease in market share and revenue.
- Fluctuating raw material prices, which may impact the company's cost of goods sold and profitability.
- Changes in government regulations and tax policies, which may affect the company's financial performance.

4. What are the company's future plans and goals?
The company's future plans and goals are:
- To expand its market reach by entering new geographical markets and increasing its sales volume.
- To invest in research and development to develop new products and services that meet the needs of the market.
- To maintain a strong financial position by managing its costs effectively and ensuring a steady cash flow.

LOCUS MAP 875		
<p>THIS MAP WAS PREPARED BY THE TOWN OF NATICK, MASSACHUSETTS, AND IS NOT A SURVEY. IT IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PREPARED. THE TOWN OF NATICK, MASSACHUSETTS, IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS. THE TOWN OF NATICK, MASSACHUSETTS, IS NOT RESPONSIBLE FOR ANY DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR FROM THE USE OF THIS MAP. THE TOWN OF NATICK, MASSACHUSETTS, IS NOT RESPONSIBLE FOR ANY DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR FROM THE USE OF THIS MAP.</p>		
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PREPARED BY:

**WDA
DESIGN
GROUP**

DESIGNED BY: JAMES M. WILSON, JR. - 100 HIGHLAND STREET, SUITE 200, BOSTON, MA 02118-3026

DRAWN BY: JAMES M. WILSON, JR. - 100 HIGHLAND STREET, SUITE 200, BOSTON, MA 02118-3026

DRAWN BY:		DATE:	
JAMES M. WILSON, JR.		10/10/20	

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JAMES M. WILSON, JR.		10/10/20	

DRAWN BY:		DATE:	
JAMES M. WILSON, JR.		10/10/20	

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JAMES M. WILSON, JR.		10/10/20	

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JAMES M. WILSON, JR.		10/10/20	

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JAMES M. WILSON, JR.		10/10/20	

DRAWN BY:		DATE:	
JAMES M. WILSON, JR.		10/10/20	

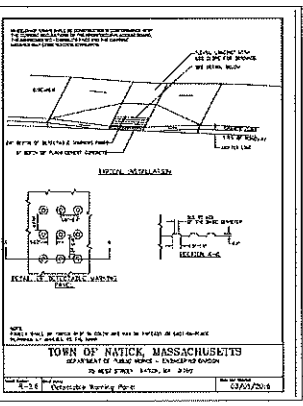
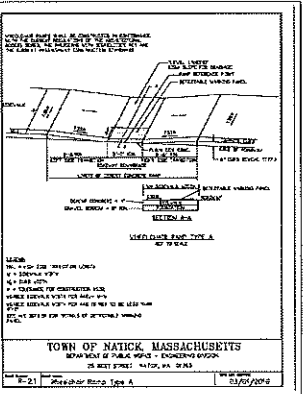
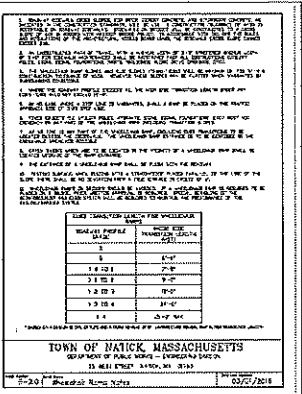
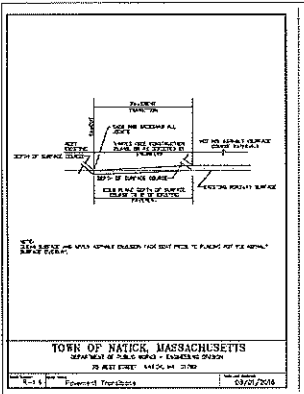
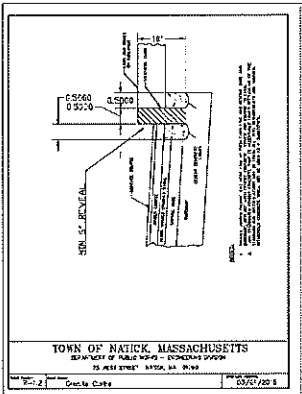
DRAWN BY:		DATE:	
JAMES M. WILSON, JR.		10/10/20	

DRAWN BY:		DATE:	
JAMES M. WILSON, JR.		10/10/20	

DRAWN BY:		DATE:	
JAMES M. WILSON, JR.		10/10/20	

DRAWN BY:		DATE:	
JAMES M. WILSON, JR.		10/10/20	

DRAWN BY:	
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LOCUS MAP

NO.	DATE	DESCRIPTION
1	03/07/2018	ISSUED FOR BIDDING
2	03/07/2018	REVISIONS
3	03/07/2018	REVISIONS
4	03/07/2018	REVISIONS
5	03/07/2018	REVISIONS
6	03/07/2018	REVISIONS
7	03/07/2018	REVISIONS
8	03/07/2018	REVISIONS
9	03/07/2018	REVISIONS
10	03/07/2018	REVISIONS

WDA
DESIGN
GROUP

INHABITANTS OF THE
TOWN OF NATICK
11 West Central Street
Natick, MA

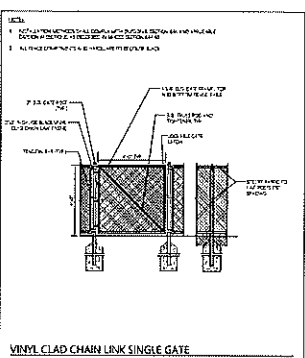
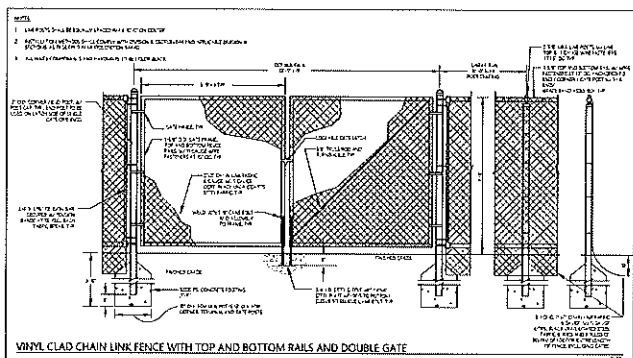
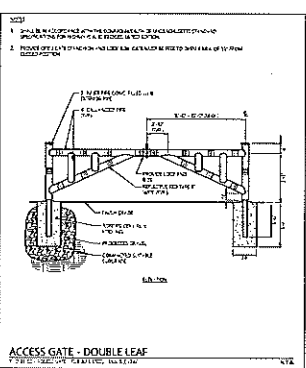
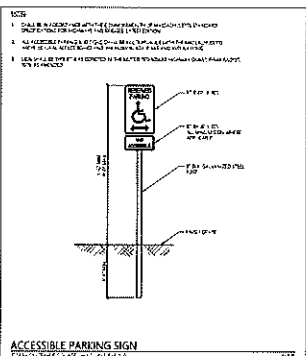
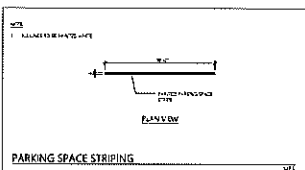
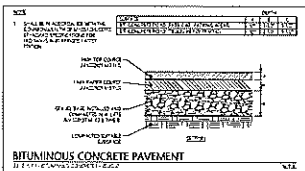
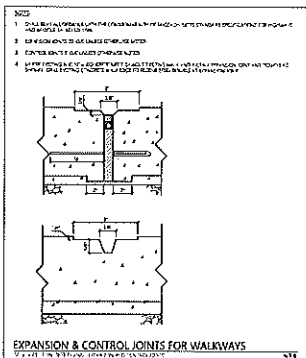
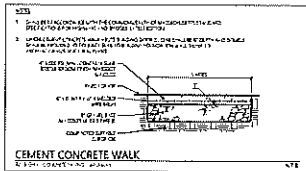
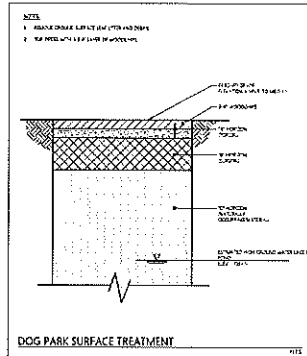
TOWN OF
NATICK
13 East Central Street
Natick, MA

DETAILS

NATICK
DOG PARK
111 West Central Street
Natick, MA
(Middlesex County)

BID DRAWINGS

NO.	DATE	DESCRIPTION
1	03/07/2018	ISSUED FOR BIDDING
2	03/07/2018	REVISIONS
3	03/07/2018	REVISIONS
4	03/07/2018	REVISIONS
5	03/07/2018	REVISIONS
6	03/07/2018	REVISIONS
7	03/07/2018	REVISIONS
8	03/07/2018	REVISIONS
9	03/07/2018	REVISIONS
10	03/07/2018	REVISIONS



LOCUS MAP

11/16

WDA DESIGN GROUP

11/16

INHABITANTS OF THE TOWN OF NATICK

11/16

TOWN OF NATICK

11/16

DETAILS

11/16

NATICK DOG PARK

11/16

BID DRAWINGS

11/16

DATE

11/16

SCALE

11/16

1/4" = 1'-0"

C4.04

ACORD™

Client#: 92178

CASSILANI

DATE (MM/DD/YYYY)

5/10/2019

CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Starkweather & Shepley (WW)
Insurance Corp. of MA
PO Box 549
Providence, RI 02901-0549

CONTACT NAME: Lauren Luke
PHONE (A/C, No, Ext): 781 320-9660
FAX (A/C, No): 401-431-9635
E-MAIL ADDRESS: lluke@starshep.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: Employers Mutual Ins	21415
INSURER B: Hartford Ins Group	19682
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

INSURED
Cassidy Landscaping LLC
54 Cummings Park, Suite 336
Woburn, MA 01801

REVISION NUMBER:

COVERAGES **CERTIFICATE NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:		5D24047	01/01/2019	01/01/2020	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$500,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$3,000,000 PRODUCTS - COM/OP AGG \$3,000,000 \$
A	<input type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		5Z24047	01/01/2019	01/01/2020	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$10000		5J24047	01/01/2019	01/01/2020	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A	02WECCS6847	04/02/2019	04/02/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Re: Construction Services Related to the Installation of a Dog Park in the Town of Natick.

CERTIFICATE HOLDER

Town of Natick
Attn: Procurement Officer
c/o Natick Public Works Building
75 West Street
Natick, MA 01760

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



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2:39 PM 05/09/19

Cassidy Landscaping LLC 2016 Customer & Job List May 9, 2019

Customer	Company	Main Phone	Main Email	Bill to 2
150 Main St LLC - Calareso's Farm Stand	150 Main St LLC-Calareso's Farm Stand Com		daddymusgrave@verizon.net	Attn: Joe Musgrave 28 A Richardson Street
28 Richardson St. Condominium				
A. Jandris & Sons	A. Jandris & Sons			17 Sherwood Road
Adam & Katherine Dilly			admackler@gmail.com	Attn: Adam Mackler
Adam Mackler - GMRI	Capital Grille	(978)995-8493	info@mpaspanish.com	844 Main Street
Alejandra Williams	Mi Pequena			
Alejandro Flores-c		6177554643	amyquattro@gmail.com	16 Plymouth Circle
Amy Williams				5 Ravenscroft Road
Amy Wrenn				51 Sullivan St
Amy Wrenn Unit				55 Sullivan St
Amy Wrenn Unit:Amy Wrenn				21 Wesley St
Amy Wrenn Unit:Amy Wrenn:McKeever Patio				5 Ravenscroft Road
Amy Wrenn:Amy Wrenn				302 Mystic St
Andy Fotopulos				upham street
Ann Mahoney			toni9898@verizon.net	2 Waterhouse Rd.
Anthony & Darlene Magno		781-568-0714	jcolarusso1@gmail.com	307 Green St
Anthony & Joe Colarusso		610 730 9366	ajfrank1313@yahoo.com	89 Red Gate Lane
Anthony Frank		347 410 3855	apriyablonsky@gmail.com	28 Walsh Ave
April Yablonsky				10 Sunset Road
Arnold Fertig			asal.naraghi@gmail.com	24 Line Road
Asal Naraghi				11 Erickson St.
Atticus Fisher				122 Chestnut Street
Audsley Bridges				5 Grant Street
Ben Craigie		508-454-6504		36 A Pleasant Street
Beth Gerardin				6 Stanton Road
Beth Stehley		617-470-5711	bstehley@bostonusa.com	79 East Emerson Street
Betsy Hosler				265 Upham Street
Betty Pothier				8 Veterans Lane
Bill Adams				38 Cottage Street
Bill Bird				127 Charles St
Bill Champa		7817756886		12 Fairchild Drive
Bill Fiscus		6176970487	wpgalatis@aol.com	4 Bria Circle
Bill Galatis				12 Pond Street
Bill Goddard				

Cassidy Landscaping LLC 2016 Customer & Job List May 9, 2019

2:39 PM 05/09/19

Customer	Company	Main Phone	Main Email	Bill to 2
Bill Moore				200 Main Street F Box 165
Bob Chiampì				86 Macarthur Road
Bob Ford		(781) 315-1853	rcford@gmail.com	73 High Street
Bob MacLaughlin		(781) 438-0809	bobbymac7001@gmail.com	223 Central Street
Bonnie Olsen			bonnieolsen72@gmail.com	24 Hall Rd.
Boys & Girls Club of Stoneham	Boys & Girls Club of Stoneham		brett.painchaud@bcbsma.com	25 Dale Court
Brett Painchaud		(617) 512-9599		22 Dartmouth Rd.
Brian Martino		(781) 953-7081		310 Ash St.
Brian Moynihan				3 Hillside Ave.
Caitlin Knox				115 Lowell St
Calareso's Farm Stand	Calareso's Farm Stand		daddymusgrave@verizon.net	Attn: Joe Musgrave
Carol & Bob Doherty		617-799-6476(Bob babynse360@yahoo.com		27 Girard Road
Carolyn Albers		781-665-4546		13 Irving Street
Cassidy Corp.	Cassidy Corp.	866-978-9788		Kevin Cassidy
Cassidy Corp.:Wayside	Cassidy Corp.	866-978-9788	silva@cassidycorp.com	Kevin Cassidy
Cassidy Yard				3 Fern Street
Cecilia Truong				3 Peters drive
Cerrato				18 Otis Park
Charles and Deana Shirley				272 Upham Street
Charles Martel				18 Bear Hill Road
Charlie Lynch		617-429-5281	cjlynch18@yahoo.com	
Charlotte & Pham Liu				29 Wilson Rd
Charlotte Lin		7814383496		47 Brookbridge Road
Cheryl Walsh				17 Orris Place
Chiara and Nick Sarata				382 William Street
Chris and Karen Aronson				4 Evans Rd
Chris Lapiana			kscarroll1@yahoo.com	23 Marshall Street
Christian & Kori Carroll				5 Keys Rd.
Christina Cough				182 Forest Street
Christine and Steve Hingston				25 Chipman Ave
Christine Davie		(781) 438-3783	flicker00@comcast.net	6 Marshall Road
Christine Gill		(339) 293-9571	christine.st.hilaire@gmail.com	37 Sanborn Lane
Christine St. Hilaire				55 Putnam Rd
Christopher Mauro & Matt Hemberger				

Customer	Company	Main Phone	Main Email	Bill to 2
Cindy Hemenway				14 Fells Road
Colleen Conway		860-690-4643		63 Reading Hill Ave
Craig Celli				270 Main Street
Cynthia Dodick				277 West Emerson Street
Dan Moynihan				15 Concord Road
Daniel & Ali Lyons		(917) 710-5562	alisorg@gmail.com	11 Sanborn St
Daniel & Susan Kirkland				17 Larson Lane
Danvers Grille and Bistro	Danvers Grille and Bistro			Attn: Dan Delorenzo
Dave Kurdzionak				65 Congress St
David & Lisa O'Connor				18 Sheldy Rd
David Cairone				43 Sullivan Street
David Goralski				5 Drury Lane
David Latta			doddtdave2@verizon.net	14 Alden Ave.
David Pinkham				19 Fieldstone Drive
David Schelzi				P.O. Box 540
David Thistle				69 High street
Debra Adamo				28 Rodgers Road
Denise & Joe Kneeland				4 Rebecca Lane
Diana Barbera			dengallo@comcast.net	27 LakeView Road
Diane McCarthy				56A Merrimac Street
Dina Adams				160 Main Street
Doug and Nancy Jackson				33 Stevens Street
Doug Fox		603-765-4217	fullonfour@gmail.com	56 Temple St
Dr. Quang De Nguyen				
E-J Electric T&D LLC.	E-J Electric T&D LLC.	203-626-9625	wnewell@ej1899.com; malmy@ej1899.com Attn: Mary Almy	Attn: Paul Wrenn
Eagle Elevator	Eagle Elevator	(781) 858-6169	edden12@comcast.net	43 Fieldstone Drive
Ed D'Entremont				3 Alonesos Way
Edward Alois				73 Robin Hood Road
Eileen & Ed Nortrup			enortrup@me.com	18 Cranmore Lane
Eleanor				22 Walsh Ave
Elio Commito				175 West Emerson Street
Elizabeth and Zachary Veaner				224 Park Street Unit A8
Elm Street Reality Trust			inhousecleanouts@gmail.com	177 Upham street
Eric				

Customer	Company	Main Phone	Main Email	Bill to 2
Eric Anderson				8 Kimball Drive
Eric Hendrickson				16 Plymouth Road
Eric Hendrickson			hallmarkradeh@yahoo.com	85 Ferdinand St.
Eric McDonald				25 Marmion Street
Erica Vining			ewata234@aol.com	11 Harrison Street
Faye Doyle		(781) 727-8602		21 Cottage Street
Ferranti Tile	Ferranti Tile			26 Dewitt Road
Frank Deluca				48 High Street
Frank Garvey C.P.A.				19 Magnolia Road
Frank McDonough				17 Mountain Ave.
Frank Walsh				7 Rose Lane
G/J Carting Inc.				22 Whitin Ave Ext
Gary Allen				53 Spring Street
George Legor#1				6 Evans Road
Gilmore Condo Assoc.	Gilmore Condo Assoc.	Deacey		8 Gilmore St.
Giuseppe & Mary Lograsso		9786642330	mglograsso57@gmail.com	22 Spruce Road
Greg Osborn				28 Green St
Gregory Osborn				28 Green St
Guild Human Services Inc.	Guild Human Services Inc.		hroc@gulidhumanservices.org	521 Virginia Rd.
Henry Der				19 Greenview
High Street Realty Trust			inhousedcleanouts@gmail.com	224 Park Street Unit A8
Howard Abrams		(617) 682 9687	habrams@law.harvard.edu	60 A Bedford St
In House Cleanouts and Disposal	In House Cleanouts and Disposal	781-568-9158	ryan@cassidylandscaping.com	224 Park St, Unit A8
Ingeborg Dewling			bblaizis@interra-innovation.com	78 Conrad Rd.
Interra Innovation, Inc.	Interra Innovation, Inc.			75 Concord Street
Ironside Bar & Grill				25 Park Street
J & K Landscaping.	J & K Landscaping			P.O. Box 215
Jack Bekkenhuis				41 Oak Street
Jack Busalacchi				42 Country Club Road
Jack DiPaola		7819538358	LSlancer@verizon.net	600 North Ave
Jack Downs				42 Franklin Road
Jackie Green		781-438-3244		418 William Street
Jacqui Webb				6 Gigante Drive
James Flynn				56 Butler Ave

2:39 PM 05/09/19

Cassidy Landscaping LLC 2016 Customer & Job List May 9, 2019

Customer	Company	Main Phone	Main Email	Bill to 2
James Klapman & Joann Pellegrino			jklapman@gmail.com	Joann Pellegrino
Janet Moakley				2 Birch Hill Ave
Jason Kerney				135 Nahant Street
Jayne Vining			jvining2@comcast.net	2 Rebecca Lane
Jean Lyon			ryan@cassidylandscaping.com	53 West Emerson
Jeff & Michelle Davis				17 Garden Road
Jeff and Heather Connor				52 Woodcrest Drive
Jeffrey DiBenedetto		(781)494-6578	JeffD@unitrends.com	3 Wescott Rd.
Jerry Silverio		781-438-4858	dsil2009@hotmail.com	20 Curve Road
Jessica Picariello				3 Hanford Road
Jessica Sacardo				27 Heritage Lane
Jim & Megan Mercer				20 Sunset Rd.
Jo Devlin				34 Pleasant Street
Joan & William Erickson				William Erickson
Joan Musial		781-258-6801		1 Gerald Road
Joanne & Daniel Muller				Daniel Muller
Joe				8 Putnam Street
Joe Auciello		(617) 548-0415	leesaauციello@gmail.com	2 Valley Road
Joe Braglionie				61 Main Street
Joe Esposito		6177910944	espo220@gmail.com	8 Putnam St
Joe Musgrave		781 953 4217	daddymusgrave@verizon.net	1 Third St
Joe Palasek				111 Red Gate Lane
Joe Santoro				10 Cherry Street
Joe Wrenn	Joe Wrenn			22 Ardley Street
Joe Wrenn: Brighton Street	Joe Wrenn			22 Ardley Street
John & Karen Gerachly		(781) 710-9743	jgeraghty@comcast.net	34 Beacon Street
John Curtis				8 Christine Ave.
John Huston		9789223959		7 Middle St
John Linehan				27 Handford Road
John Lopriore				28 Wilson Road
John Mahon				26 King Arthur Drive
John Nardone				24 Parkway Rd
Jonathan and Karen Mole		(617) 699-3431	jmalelectric2003@gmail.com	189 Franklin Street
Joseph Lobao				62 Butler Ave

Customer	Company	Main Phone	Main Email	Bill to 2
JRK Property Holding	JRK Property Holding			Attn: Sammy Castro
Julie Aylward			juliemayward@gmail.com	25 Prescott St
Julie Nelson				1 Everett Street
Karen Sweet				1 Perhing Place
Karen Walson				71 Fellway East
Katharine Stratford				204 East Foster Street
Kathy Driscoll		617-947-9275	kaceystat@gmail.com	5 Holland Road
Keisha M. Lam			cmsamom4@yahoo.com	28 Everett Street
Keith Anderson				12 Fieldstone Drive
Kenneth Keyser		781-883-9113		15 Vincent Road
Kenny & Mary Rogers				1 Macone Circle
Kenny Souza				25 Broadway Street
Ketan Patel		7813540071	k.patel@khsmanagement.com	28 Blossom St
Kevin & Cindy Rosa			spidercat@comcast.net	11 Waterhouse Rd.
Kevin Ponder				5 Birch St
Kevin Regan				223 School St
Key point partners				C/O Keypoint partners LLC
Key point partners:145 Great Rd LLC	145 Great Rd LLC		cserrano@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:145 Great Rd LLC:145 Gre	145 Great Rd LLC		cserrano@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:145 Great Rd LLC:145 Gre	145 Great Rd LLC		cserrano@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:65,49-59 Newport Ave. Qui	Stop & Shop Plaza, 65, 49-59 Newport Ave,		gkukshin@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Burlington Marketplace			keypointpartners@avidbill.com	C/O Keypoint partners LLC
Key point partners:Burlington Marketplace:Burlington Market Place Snow Removal			keypointpartners@avidbill.com	C/O Keypoint partners LLC
Key point partners:Burlington Marketplace:Bur	Linear retail Burlington #1, LLC		keypointpartners@avidbill.com	C/O Keypoint partners LLC
Key point partners:Endicott Square -Danvers			ksemon@keypointpartners.com	Property #1060
Key point partners:Linear Retail Andover #1	Linear Retail Andover #1 LLC		keypointpartners@avidbill.com	Property #1060
Key point partners:Linear Retail Andover #1	Linear Retail Andover #1 LLC		keypointpartners@avidbill.com	Property #1060
Key point partners:Linear Retail Andover #1	Linear Retail Andover #1 LLC		keypointpartners@avidbill.com	Property #1060
Key point partners:Linear Retail Boston #10	Linear Keypoint Partners		sfisone@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Linear Retail Cambridge #1	Keypoint Partners LLC		keypointpartners@avidbill.com	Property #1021
Key point partners:Linear Retail Cambridge #1	Keypoint Partners LLC		keypointpartners@avidbill.com	Property #1021
Key point partners:Linear Retail Cambridge #1	Keypoint Partners LLC		keypointpartners@avidbill.com	Property #1021
Key point partners:Linear Retail Cambridge #1	Keypoint Partners LLC		keypointpartners@avidbill.com	Property #1021
Key point partners:Linear Retail Chelmsford #	Linear Retail Chelmsford #1 LLC		keypointpartners@avidbill.com	Property #1030

Customer	Company	Main Phone	Main Email	Bill to 2
Key point partners:Linear Retail Chelmsford #	Linear Retail Chelmsford #1 LLC		keypointpartners@avidbill.com	Property #1030
Key point partners:Linear Retail Chelmsford #	Linear Retail Chelmsford #1 LLC		keypointpartners@avidbill.com	Property #1030
Key point partners:Linear Retail Chelmsford #	Linear Retail Chelmsford #1 LLC		keypointpartners@avidbill.com	Property #1030
Key point partners:Linear Retail Chelmsford #	Linear Retail Chelmsford #1 LLC		keypointpartners@avidbill.com	Property #1030
Key point partners:Linear Retail Stow #1 LLC	Linear Retail Stow #1 LLC		kmairho@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Linear Retail Waltham #1 L	Linear Retail Waltham #1 LLC		keypointpartners@avidbill.com	Property #1058
Key point partners:Linear Retail Waltham #1 L	Linear Retail Waltham #1 LLC		keypointpartners@avidbill.com	Property #1058
Key point partners:Linear Retail Waltham #1 L	Linear Retail Waltham #1 LLC		keypointpartners@avidbill.com	Property #1058
Key point partners:Mishawum Road			cmacdougali@keypointpartners.com	Property #1058
Key point partners:Mishawum Road:Linear Retail Woburn - Landscape			spetrovski@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Nashua	Keypoint Partners		spetrovski@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Natick Promenade			cserrano@keypointpartners.com	c/o Keypoint Partners, LLC
Key point partners:O'Connor Partners LLC			keypointpartners@avidbill.com	C/O Keypoint partners LLC
Key point partners:O'Connor Partners LLC:O'Connor Sweeping			jqualey@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Peabody Gardens			jqualey@keypointpartners.com	C/O Keypoint Partners, LLC
Key point partners:Peabody Gardens:Linear R Keypoint Partners, LLC			keypointpartners@avidbill.com	C/O Keypoint Partners, LLC
Key point partners:Peabody Gardens:Linear Retail Peabody Snow Removal			keypointpartners@avidbill.com	C/O Keypoint Partners, LLC
Key point partners:Peabody Gardens:Peabody - Masonry			cmacdougali@keypointpartners.com	C/O Keypoint Partners, LLC
Key point partners:Tedeschi Plaza Braintree			lferrara@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Tedeschi Plaza Braintree:T Keypoint Partners LLC.			jqualey@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:Tedeschi Plaza Braintree:TRT Braintree II LLC Masonry			jqualey@keypointpartners.com	C/O Keypoint partners LLC
Key point partners:The Braintree Marketplace Keypoint			cserrano@keypointpartners.com	c/o Keypoint Partners, LLC
Key point partners:Treble Cove Plaza	Keypoint		keypointpartners@avidbill.com	c/o Keypoint Partners, LLC
Key point partners:Treble Cove Plaza:Treble C Keypoint			zsmith@keypointpartners.com	c/o Keypoint Partners, LLC
Key point partners:Treble Cove Plaza:Treble C Keypoint Partners LLC			keypointpartners@avidbill.com	c/o Keypoint Partners, LLC
Key point partners:Treble Cove Plaza:Treble C Keypoint			keypointpartners@avidbill.com	c/o Keypoint Partners LLC
Key point partners:TRT Saugus			keypointpartners@avidbill.com	c/o Keypoint Partners LLC
Key point partners:TRT Saugus:TRT Saugus Landscaping			keypointpartners@avidbill.com	c/o Keypoint Partners LLC
Key point partners:TRT Saugus:TRT Saugus Snow Removal			keypointpartners@avidbill.com	C/O Keypoint partners LLC
Key point partners:TRT Weymouth III LLC.			ksemon@keypointpartners.com	C/O Keypoint Partners
Key point partners:Westborough 1 Oak Street		508-212-7454	cserrano@keypointpartners.com	42 Beacon Street
Kim & Derek Vachon		6178729545	derekvachon@gmail.com	7 Marie Ave.
Kim Hutchins			sheba4KK@comcast.net	19 Josephine Ave
Kirk Semons			ksemon@keypointpartners.com	

Customer	Company	Main Phone	Main Email	Bill to 2
Kosow Construction Corp.				Attn: David Pfeifer
Kyle				5 Holden Street
Kyle & Emily Maganzini				10 Rhuland Road
Kyle & Jessica Donovan			kyle.donovan@outlook.com	21 Marshall Street
Lauren Cullen				4 Bryant Street
Lauren Delaney				60 High Street
Lauren Knott				2 Walnut Street
Lauren Mosher				23 Thistedale Road
Laurie Doherty				8 Forest Glen Rd
Lawson Co	Lawson Co	781-367-8513	TLdoherty7@gmail.com	7 Buttonwood Road
Legal Seafood, LLC	Legal Seafood, LLC	(617)721-3853	mameen@legalseafoods.com	1 Seafood Way
Linda & Robert Peet				8 Ashland Street
Linda Forti		781-684-3917		52 Butler Ave
Linda Gaffney				55 Spring Street
Lisa Damore				6 Michael Circle
Lord Baron Apartments			lordbaronapts@comcast.net	Attn: Kevin Regan
Lorraine Caristo				12 Bear Hill Road
Lorraine Driver				294 Upham Street
Lou D'Angelo				9 Gigante Drive
Luana Dinatale				39 School Street
Lydia Rocco				
mal				
Manison St LLC	Manison St LLC	(617) 233 4372	mtbattaglia@gmail.com	Attn: Frank Walsh
Maria Battaglia				235 Summer Ave.
Maria Touet				24 Girard Road
Marie & Michael Vaggianos		781-727-7726	Mrs.vaggianos@gmail.com	201 Lynn Fells Parkway
Marie Christie			mariechristie@comcast.net	2 Elwood Ave
Marie Diorio		781-662-7011		282 Upham Street
Maria Mirabile		(781) 438-1164	mariemirab@hotmail.com	15 Myrtle St
Marie Salipante		781-396-6141		157 Ashcroft Road
Marilyn Showstack			jnsinc@verizon.net	9 A Richardson Ave.
Mario				33 Walnut Street
Marion Almquist				3 Victoria Lane
Marion and Rich Olsen				

Customer	Company	Main Phone	Main Email	Bill to 2
Mark Cuddy				55 A Chestnut St
Mary Eustace			starznsuch52@yahoo.com	16 Bellevue Road
Mary Uva		7814389367	m.uva@comcast.net	1 Pershing Place
Mary Walker				15 Cabot Rd
Massimo Tiberi				29 Bear Hill Road
Matt Coviello		(617)257-0155	ariatrattoria@yahoo.com	17 Heritage Street
Matthew Santangelo				24 South Street
Maureen Fucarile				6 Rhuland Rd
Michael Burns				108 Country Club Rd
Michael Ferreira				107 Rye Street
Michael Sinclair				328 Charles St
Michael Strock		(978) 539-0157	michael.strock@gmail.com	
Mike & Tiffany Deberardinis				1 Belmont Road
Mike Brucklier		(617) 755-8674	mike@flourbakery.com	162 Beech St.
Mike Ciarlante				10 Gigante drive
Mike Griffin			mgriffin@wilderco.com	8 Robert Ave
Mike Toppa				58 Nelson St.
Mike Vasapolli		617-733-2706		4 Larson Lane
Mike Vining			mvcaddy55@aol.com	8 Pebble Place
Milton Cat.	Milton Cat		Andrew_Wakem@miltoncat.com	ATTN: V966452
MPI Release			bradley@mpirelease.com	Attn: Carl Patalano
Mr. & Mrs. Campbell				1 Rebecca Lane
Mr. & Mrs. Catanzaro				286 Broadway
Mr. & Mrs. Maganzini				19 Skyewood Drive
Mr. & Mrs. Nolan				21 Sunset Rd
Mr. & Mrs. Salerno				41 Spring Street
Mr. & Mrs. Simoes				57 Morrison Road West
Mr. & Mrs. Cullen				8 Homestead Lane
Mr. & Mrs. Mitchell				59 Forest Street
Mrs. Maggio			jeanmaggio@rcn.com	9 Elizabeth Way
Nathaniel and Jill Daknatel				13 Thistledale Road
Nick Graves			ngraves5@yahoo.com	302 Ash Street
Nicole Boquet				28 Town Crest Drive.
Nicole Campbell			nmbabine@gmail.com	7 Plymouth Rd.

Customer	Company	Main Phone	Main Email	Bill to 2
Nordblom Company	Nordblom Company			Attn: Molly Bennett
Nordblom Company:Lifetime Fitness	Nordblom Company			Attn: Molly Bennett
Nordblom Company:Nordblom -3rd Ave - Lanx Nordblom Company			mbennett@nordblom.com	3rd Ave.
Nordblom Company:Nordblom Archer Hotel -L Nordblom Company			mbennett@nordblom.com	Archer Hotel
Nordblom Company:Nordblom - 3rd Ave - Sv Nordblom Company			mbennett@nordblom.com	Attn: Molly Bennett
Nordblom Company:Northwest Park	Nordblom Company			Attn: Molly Bennett
Norwich Landing Series LLC	Norwich Landing Series LLC	617 590 3090		11 New Meadow Road
O'Connor Plaza			jqualey@keypointpartners.com	C/O Keypoint partners LLC
Oliver Hayes		617-571-6378		P.O. Box 483
Oye's Chinese Restaurant	Oye's Chinese Restaurant		subyasuby@gmail.com	26 Walkers Brook Drive
Pai Jing Chen		7819622365	panelasherry@verizon.net	16 Elaine Rd.
Pam Sherry		(617) 504 - 4254	panelablessing7@gmail.com	7 Overlook Road
Pamela Blessing				23 Parkway Rd
Patrick Glendering				7 West Street
Paul Foley				32 Forest Street
Paul Moran			moran_paul@me.com	74 Robin Hood Rd
Paula Egan				13 Bennett Street
Paula Sasso				30 Bear Hill Road
Peg Daniels		(781) 438-6950	margaret.daniels1@verizon.net	2 West Street
Peter Lodi				8 Gigante Drive
Peter Pouliot				1166 Franklin Street
Phil Donovan				15 Bear Hill Rd.
Phil McGovern		(774) 230-5816	pmcgovern1991@gmail.com	582 Main St.
Piedmont Office Realty Trust	Piedmont Office Realty Trust			P.O. Box 7679
Piedmont Office Realty Trust:Piedmont 25 Ma	Piedmont Office Realty Trust, Inc.		don.fortenbacher@piedmontreit.com	c/o Piedmont Office Realty Trust, Inc.
RA Ventures	RA Ventures		nwalker@raventures.net	110 Grill WL Woburn, LLC
Ralph & Bianca				4 Wilson Road
Ralph Barile			ralph@barilefuneral.com	482 Main Street
Ralph Giannato				10 Stockwell Rd
Residential Lawn cuts				
Rich Randazzo		6172832335		32 Brook Street
Richard & Patricia Termine		781-438-9620	rtermine@comcast.net	4 Eustice Street
Richard Aylward		781 929 2227	rala1212@comcast.net	200 Revere Beach Parkway
Richard Smith			richard.smith172@gmail.com	6 Maria Lane

Customer	Company	Main Phone	Main Email	Bill to 2
Rita Desterfano				33 Valley Road
Rob Pizzi				21 Cabot Road
Robert & Kathie Decrescenzo				4 Michael Circle
Robert Di Franco			zgdm@comcast.net	54 Country Club Road
Robin Cohen		(781) 665-3802	robinsky7514@gmail.com	12 Sunset Road
Robin Wildman				33 Norman Road
Rocco & Sons funeral homes Inc.	Rocco & Sons funeral homes Inc			331 Main Street
Rocco Ciccarello		7819104171	rocco.ciccarello@gmail.com	4 Janice Lane
Roger Ferullo				6 Kathleen Drive
Ronald & Margaret Beaupre		78194494447636		37 Harvard St
Ronda Analetto				45 Park Street
Rounds Hardware	Rounds Hardware			Bill Rounds
Russ Stiering				104 Governor Road
Russell Follansbee				7 Holden Row
Ryan Mawn				17 Collincoat Street
Ryan Noonan				5 Oran Circle
Ryan Sullivan.				41 Fox Street
Sal Lograsso			riesina@comcast.net	95 MacArthur Road
Sam Horn			samhorn31@gmail.com	41 Zachary Lane
Sarah Harrington				7 Wagner Road
Scott & Nicole Campbell				7 Plymouth Road
Scott Dinan		(617) 799-7434	sdinan@stonehamford.com	124 Collincoate St
Scott Hamberg				112 Clifford Road
Sean and Laura Cronin				11 Kimball Drive
Sheila Carlson		7816062241	scronin14@verizon.net	18 Perkins Street
Signet Jewelers	Signet Jewelers		sheila.gcarlson@gmail.com	Attn: Maggie Sawicki
Skyworks Solutions inc.	Skyworks Solutions inc.		Julie.Magner@skyworksin.com	Attn: Julie Magner
Stephen O'Brien		(860) 881-7045	stephenjobrien@yahoo.com	85 Kendrick Rd.
Steve & Lidia Rocco				32 Heritage Lane
Steve Hall				246 Tremont Street
Steve Manganiello				82 Robin Hood Road
Steve McNaught		7813893120	srnesq@verizon.net	8 Phillips Road
Steve Nims		781-438-0895	spn0895@verizon.net	41 Cottage Street
Steve Nims:8 Greenview Rd		781-438-0895	spn0895@verizon.net	41 Cottage Street

Customer	Company	Main Phone	Main Email	Bill to 2
Steve O'Brien				85 Kendrick Road
Steven M. Piro		781-799-7243	s.piro@comcast.net	19 Rodgers Road
Studio 786			angela@studio786.com	Attn: Angela Nogueira
Sturgis Street Condominium Association	Sturgis Street Condominium Association			attn: Lauren Vigneau
susan Benko				36 Perkins Street
Susan Foster		781 438 2608		3 Homestead Lane
Suzanne M. Riley				48 Lee Street
Sweeping			Sweeping	
T-sheets Masonry				
Tara Lawler				53 Walsh Ave.
Teresa Dunleavy				14 Ravine Terrace
Terry Marsh		517 231 6033		5250 Bear Lake Drive
The Wilder Companies			atetreault@wilderco.com	Attn: Amy Tetreault
The Wilder Companies: Signet Jewelers			atetreault@wilderco.com	c/o The Wilder Companies
Thomas & Ellen Swanson			thomasswanson@hotmail.com	23 Erickson Street
Thomas & Kelly McCarthy			tmac2227@aol.com	8 Summit Road
Thomas & Nancy Mahoney			tmahoney@purecoatnorth.com	33 Windsor Road
Tobin & Julie Schulman				15 Chestnut St
Tom & Colleen Gerety				252 Haverhill Street
Tom Hildreth				179 Broadway
Tom Stapleton		(617)240-2180	tsjr1943@gmail.com	22 Summer St
Tom Storella				6 Alden Ave
Tom Taranti				
Tommy Day		781 589 6694	t44day@gmail.com	46 Fieldstone Drive
Tony Proia				35 Park Street
Town of Stoneham.	Town of Stoneham			Attn: Erin Wortman
Town of Westford	Town of Westford			55 Main St
TSheets -Landscape			cgumbart@westfordma.gov	
Tze Wei Yeow & Hui Jun Tay				142 Chestnut St
Village Builders	Village Builders		mcullen2189@gmail.com	17 Cyrus Street
Vinny Festino				27 Oak Street
Vinny Piro				100 Grant Ave
Walter Penny				7 West Ferdinand Street
Wayside Commons Investors LLC	Wayside Commons Investors		atetreault@wilderco.com	c/o The Wilder Companies

Customer	Company	Main Phone	Main Email	Bill to 2
Wayside Commons Investors LLC:Wayside C: Wayside Commons Investors			atetreault@wildarco.com	c/o The Wilder Companies
Wayside Commons Investors LLC:Wayside C: Wayside Commons Investors LLC			atetreault@wildarco.com	c/o The Wilder Companies
Weiss Farm	Weiss Farm		donna.weiss@comcast.net	Attn: Donna Weiss
Wendy & Joe Calareso			wendycalareso@comcast.net	24 Lilah Lane
Wendy Smith				132 Park Street
Westford Valley Marketplace	Westford Valley Marketplace			c/o The Wilder Companies, Ltd
William & Diane Delaney			wdelaney21@hotmail.com	50 High Street
Wingate Management	Wingate Management			78 Peterborough St #11
Wingate Management:Norway Housing	Wingate Management		peterborough@wingatecompanies.com	c/o Wingate Management Company
Wingate Management:Peterborough Housing	Wingate Management		peterborough@wingatecompanies.com	c/o Wingate Management Company

Bill to 3	Bill to 4
100 Main Street	Reading, Ma 01867
Wakefield, MA 01880	
Stoneham, MA 02180	
10 Wayside Road	Burlington, Ma 01803
Melrose, MA 02176	
Melrose, MA 02176	
Winchester, Ma 01890	
Charlestown, MA 02129	
Charlestown, MA 02129	
Charlestown, MA 02129	
Winchester, Ma 01890	
Arlington, MA 02474	
melrose, MA 02176	
Stoneham, MA 02180	
Stoneham, MA 02180	
Reading, MA 01867	
Stoneham, Ma 02180	
Melrose, MA 02176	
Wakefield, MA 01880	
Stoneham, MA 02180	
Wakefield, MA 01880	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Melrose, Ma 02176	
Melrose, MA 02176	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Reading, MA 01867	
Reading , MA 01867	
Saugus, Ma 01906	
Stoneham, Ma 02180	

Bill to 3	Bill to 4
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Melrose, Ma 02176	
Reading, Ma 01867	
Woburn, MA 01801	
Reading, MA 01867	
100 Main Street	Reading, Ma 01867
Stoneham, Ma 02180	
Melrose, Ma 02176	
54 Cummings Park, #304	Woburn, MA 01801
54 Cummings Park, #304	Woburn, MA 01801
Melrose, Ma 02176	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Melrose, Ma 02176	
Stoneham, Ma 02180	
Stoneham, MA 02180	
North Reading, MA 01864	
Stoneham, MA 02180	
Winchester, Ma 01890	
Melrose, MA 02176	
Stoneham, MA 02180	
Reading, MA 01867	
Reading, MA 01867	

Bill to 3	Bill to 4
Stoneham, Ma 02180	
Melrose, Ma 02176	
Stoneham, MA 02180	
Melrose, MA 02176	
Stoneham, Ma 02180	
Winchester, MA 01890	
Stoneham, Ma 02180	
161 Elliot Street	Danvers, Ma 01923
Stoneham, MA 02180	
Reading, Ma 01867	
Charlestown, Ma 02129	
Stoneham, MA 02180	
Stoneham, MA 02180	
Burlington, Ma 01803	
Wakefield, MA 01880	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Wakefield, Ma 01880	
Woburn, MA 01801	
Lynnfield, MA 01940	
Stoneham, Ma 02180	
Reading, MA 01867	
53 North Plains Industrial Drive	Wallingford, CT 06492
176 Norfolk Ave.	Boston, MA 02119
Stoneham, MA 02180	
Andover, MA 01810	
Stoneham, Ma 02180	
Melrose, Ma 02176	
Stoneham, MA 02180	
Melrose, Ma 02176	
Stoneham, MA 02180	
Melrose, MA 02176	
Stoneham, MA 02180	
Melrose, MA 02176	

Bill to 3	Bill to 4
Stoneham, MA 02180	
Reading, Ma 01867	
Melrose, MA 02176	
Melrose, Ma 02176	
Reading, MA 01867	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Melrose, Ma 02176	
Wakefield, MA 01880	
Stoneham, Ma 02180	
Revere, MA 02151	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Stoneham Ma 02180	
North Reading, MA 01864	
Lynnfield, MA 01940	
Lynnfield, MA 01940	
Concord, MA 01742	
Stoneham, MA 02180	
Stoneham, MA 02180	
Burlington , MA 01803	
Stoneham, MA 02180	
Melrose, MA 02176	
North Reading, MA 01864	
Charlestown, MA 02129	
Peabody, Ma 01960	
Stoneham, MA 02180	
Stoneham, MA 02180	
Wakefield, MA 01880	
Winchester, Ma 01890	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	

Bill to 3	Bill to 4
143 East Emerson	Melrose, Ma 02176
Wakefield, Ma 01880	
Wakefield, Ma 01880	
Stoneham, Ma 02180	
Melrose, MA 02176	
Stoneham, MA 02180	
Melrose, Ma 02176	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Lynfield, MA 01940	
Melrose, Ma 02176	
Stoneham, MA 02180	
68 Sargent St.	Melrose, Ma 02176
Stoneham, Ma 02180	
66 Sargent Street	Melrose, MA 02176
Middleton, MA 01949	
North Reading, MA 01964	
Stoneham, Ma 02180	
Middleton, MA 01949	
North Reading, Ma 01864	
Reading, MA 01867	
Stoneham, Ma 02180	
Winchester, Ma 01890	
Winchester, Ma 01890	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Beverly, MA 01915	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Londonderry, NH 03053	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	

Bill to 3	Bill to 4
Essex Apartments	1 Avalon Way Peabody, Ma 01960
Reading, MA 01867	
Winchester, Ma 01890	
Stoneham, MA 02180	
Melrose, Ma 02176	
Melrose, Ma 02176	
Melrose, Ma 02176	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Burlington, Ma 01803	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Waltham, MA 02451	
Stoneham, MA 02180	
Stoneham, MA 02180	
Westwood, MA	
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
One Burlington Woods Drive	Burlington, MA 01803
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive

Bill to 3	Bill to 4
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
One Burlington Woods Drive	Burlington, MA 01803
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
C/O Keypoint partners LLC	One Burlington Woods Drive
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, Ma 01803
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One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, Ma 01803
One Burlington Woods Drive	Burlington, MA 01803
One Burlington Woods Drive	Burlington, Ma 01803
Stoneham, Ma 02180	
Stoneham, MA 02180	
Methuen, Ma 01844	

Cassidy Landscaping LLC 2016 Customer & Job List May 9, 2019

Page 21 of

Bill to 3	Bill to 4
Wilmington, MA 01887	
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Lynnfield, Ma 01940	
Reading, MA 01867	
Reading, MA 01867	
Melrose, MA 02176	
Seekonk,MA	
Reading , MA 01876	
Wakefield, MA 01880	
Melrose, MA 02176	
Stoneham, Ma 02180	
Woburn, Ma 01801	
Winchester, Ma 01890	
Stoneham, Ma 02180	
Stoneham, MA 02180	
84 Concord Street	North Reading, Ma 01864
37 East Street	Winchester, MA 01890
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Wakefield, MA 01880	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Wakefield, Ma 01880	
Reading, Ma 01867	
Wakefield, MA 01880	
Winchester, MA 01890	

Bill to 3	Bill to 4
71 Third Ave.	Burlington, MA 01803
71 Third Ave.	Burlington, MA 01803
Attn: Molly Bennet	71 Third Ave.
Attn: Molly Bennet	71 Third Ave.
71 Third Ave.	Burlington, MA 01803
71 Third Ave.	Burlington, MA 01803
Lynnfield, Ma 01940	
One Burlington Woods Drive	Burlington, MA 01803
Reading, Ma 01867	
Reading, Ma 01867	
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Wakefield, Ma 01880	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham , MA 02180	
Woburn, MA 01801	
Merrifield, VA 22116-7679	
P.O. Box 7679	Merrifield, VA 22116-7679
4 Lan Drive	Westford, MA 01886
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Wakefield, MA	01880
Stoneham, Ma 02180	
PO Box 9100	Chelsea, MA 02150
Wakefield, Ma 01880	

Bill to 3	Bill to 4
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham, MA 02180	
Melrose, MA 02176	
Stoneham, MA 02180	
Melrose, Ma 02176	
Everett, Ma 02149	
Stoneham, Ma 02180	
Wakefield, Ma 01880	
Reading, MA 01867	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Charlestown, Ma 02129	
Stoneham, Ma 02180	
Peabody, MA 01960	
Wakefield, Ma 01880	
Stoneham, Ma 02180	
Reading , Ma 01867	
Stoneham, Ma 02180	
Winchester, MA 01890	
Stoneham, MA 02180	
Melrose, Ma 02176	
Stoneham, Ma 02180	
Stoneham, MA 02180	
8 Wayside Road	Store# 2445 Jared's Jewelers
20 Sylvan Road	Woburn, MA 01801
Wakefield, MA 01880	
Saugus, Ma 01906	
Melrose, Ma 02176	
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	

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Bill to 3	Bill to 4
Wakefield, MA 01880	
Stoneham, MA 02180	
786 Main Street	Melrose, Ma 02176
17 Sturgis St Unit 2	Woburn, MA 01801
Stoneham, MA 02180	
Wakefield, Ma 01880	
Stoneham, MA 02180	
Stoneham, MA 02180	
Stoneham, MA 02180	
Reading, Ma 01867	
Wakefield, Ma 01880	
Wakefield, MA 01880	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
Stoneham, Ma 02180	
101 Central Street	Stoneham, Ma 02180
Westford, MA 01886	
North Reading, MA 01864	
Wakefield, MA 01880	
Stoneham, MA 02180	
Medford, MA 02155	
Stoneham, Ma 02180	
8 Wayside Road	Burlington, Ma 01803

Bill to 3	Bill to 4
8 Wayside Road	Burlington, Ma 01803
8 Wayside Road	Burlington, Ma 01803
170 Franklin Street	Stoneham, Ma 02180
Reading, Ma 01867	
Stoneham, MA 02180	
800 Boylston Street, Suite 1300	Boston, MA 02199
Stoneham, MA 02180	
Boston, Ma 02215	
78 Peterborough St #11	Boston, Ma 02215
78 Peterborough St #11	Boston, Ma 02215

Cassidy Landscaping LLC
54 Cummings Park Dr. Suite 326
Woburn, MA 01801

- Cassidy Landscaping LLC has not had any legal name changes since established in 2008.
- There are no pending lawsuits against Cassidy Landscaping
- Staffing plan and experience
 - Alfredo Lopez – 8 years – Masonry, landscape construction, landscape maintenance, operating equipment, concrete work, paver installation, tree/shrubs/plant installation, excavation, drainage work
 - Elfego Lopez – 7 years – Masonry, landscape construction, landscape maintenance, operating equipment, concrete work, paver installation, tree/shrubs/plant installation, excavation, drainage work
 - Perfecto Lopez – 8 years – Masonry, landscape construction, landscape maintenance, operating equipment, concrete work, paver installation, tree/shrubs/plant installation, excavation, drainage work
 - Ryan Cassidy – 15 years – Owner of company, masonry, landscape/hardscape construction, landscape/hardscape maintenance, operating machinery, foreman, concrete work, paver installation, granite/concrete/asphalt curbing, asphalt paving, tree installation, shrub/plant installation, fencing, irrigation install/repair, seeding, hydroseeding, site work, drainage, crushed stone work, bench installation
 - Matt Pappa – 2 years – Business development manager, site layouts/planning, landscape maintenance, site work
 - Alejandro Flores – 10 years – Operations manager, masonry, landscape/hardscape construction, landscape/hardscape maintenance, operating machinery, foreman, concrete work, paver installation, granite/concrete/asphalt curbing, asphalt paving, tree installation, shrub/plant installation, fencing, irrigation install/repair, seeding, hydroseeding, site work, drainage, crushed stone work, bench installation, bark blower operator
 - Daniel Sweet – 8 years – Landscape maintenance, shrubs/trees/plants installation, seeding/hydroseeding, mulching
 - Patrick Cassidy – 15 years – Owner of company, masonry, landscape/hardscape construction, landscape/hardscape maintenance, operating machinery, foreman, concrete work, paver

installation, granite/concrete/asphalt curbing, asphalt paving, tree installation, shrub/plant installation, fencing, irrigation install/repair, seeding, hydroseeding, site work, drainage, crushed stone work, bench installation, bark blower operator

- List of equipment needed for project

Caterpillar 303.5 CR Mini Excavator – Digging, grading, stump removal

Caterpillar 262D Skid steer – Digging, grading, moving fill

Caterpillar 226D Skid steer – Digging, grading, moving fill

Volvo Excavator – Clearing trees and stumps

Caterpillar 938G Front End Loader – Grading surface, moving material, clearing stumps

More equipment available if we run in to any issues with above equipment.



List of references

1)The Wilder Companies
800 Boylston Street Suite 1300
Boston, Ma 02199

Contact: Amy Tetreault
atetreault@wilderco.com
508-237-5874

Project: Wayside phase 1 & phase 3 parking upgrades.
Scope: Plantings, Paver Installation, granite curb installation, grease trap installation, new irrigation & repairs Contract amount:\$235,000

2)Keypoint partners
1 Burlington Woods Drive #100
Burlington, Ma 01803

Contact: Julie Qualey
jqualey@keypointpartners.com
781-273-5555

Project: Natick plaza & O'Connor Plaza
Scope: concrete sidewalks(1364-1394 Worcester Rd Natick, Ma)
Scope: granite curbs & concrete repairs(446 Boston Road Billerica, Ma)
Contract amounts:\$38,000

3)Keypoint partners
1 Burlington Woods Drive #100

Burlington, Ma 01803

Contact: Chris Serrano
cserrano@keypointpartners.com
781-273-5555

Project: Acton Plaza & Treble cove Plaza
Scope: Plant installation, Brick Veneer & concrete paver install.(145 Great Road, Acton Ma)
Scope: Plant Installation & concrete walkways
Contract amounts:\$48,000

**4)Keypoint partners
1 Burlington Woods Drive #100
Burlington, Ma 01803**

Contact: Kristopher Dalen (now with Nordblom Company)
kdalen@nordblom.com
781-238-4819

Project: Mall Road Marketplace
Scope: Planting upgrade to all islands, new irrigation installation & lawn installation(69-110 Mall Rd, Burlington Ma)
Contract amount:\$75,000

**5)Cassidy Corp.
54 Cummings Park Drive suite#304
Woburn, Ma 01801**

Projects: MT. Pleasant Cemetery Arlington, Ma
Scope: Loam & grade lawn areas after asphalt paving
Contract amount:\$18,000

**6) Nordblom Company
201 Burlington Rd.
Bedford, MA 01730**

Contact: Molly Bennett
mbennett@nordblom.com
781-271-1569

7) Town of Westford

55 Main street

Westford, MA 01886

Contact: Carol Gumbart

cgumbart@westfordma.gov

Project: East Boston Camps Bath House renovation, Westford, MA.

Scope: Paver install, excavate, grade, loam, shrubs and plants install, mulch, stone dust path.



Bryan Leblanc <bleblanc@natickma.org>

Fwd: Natick Dog Park

2 messages

Matt Pappa <matt@cassidylandscaping.com>
To: Bryan Leblanc <bleblanc@natickma.org>

Fri, May 10, 2019 at 12:28 PM

Hello Bryan,

Here is the email from our insurance company.

Much appreciated,

Matt Pappa
Business Development Manager
Cassidy Landscaping
781-953-5866

----- Forwarded message -----

From: **Byrne, Charles** <CByrne@starshep.com>
Date: Fri, May 10, 2019 at 9:25 AM
Subject: RE: Natick Dog Park
To: Matt Pappa <matt@cassidylandscaping.com>

Matt,

The surety company told me just to execute the Performance & Payment bond. The purpose of the bid bond is to prequalify you

Thank you,

Charlie Byrne

Construction Surety Specialist

Starkweather & Shepley Insurance Brokerage Inc.

Phone-(401) 438-4554 Ext. 1379

Direct Dial- 401-709-7639

Cell- (401) 258-8021

From: Matt Pappa [mailto:matt@cassidylandscaping.com]
Sent: Thursday, May 09, 2019 3:41 PM
To: Byrne,Charles
Subject: Natick Dog Park

5/10/2019

Town of Natick Mail - Fwd: Natick Dog Park

Good afternoon Charlie,

We were low bidder today for our Natick Dog Park bid opening. We came in at \$299,750 and next bidder was at \$320,000. The Town of Natick is asking us for a letter of intent from a surety company that states we shall be able to obtain a Performance Bond and a Labor and Materials Payment Bond in the amount of 100% of the contract price. Please let me know if there are any questions or concerns with this! Talk to you soon.

Much appreciated,

Matt Pappa

Business Development Manager

Cassidy Landscaping

781-953-5866

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Bryan Leblanc <bleblanc@natickma.org>
To: Matt Pappa <matt@cassidylandscaping.com>

Fri, May 10, 2019 at 12:36 PM

Thanks, Matt.

[Quoted text hidden]

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Bryan R. Le Blanc
Procurement Officer
Town of Natick
75 West Street
Natick, MA 01760
bleblanc@natickma.org
(508)-647-6438