CITY OF NEW BEDFORD
ENVIRONMENTAL STEWARDSHIP

Keith Middle School Turf Construction Project
New Bedford, Massachusetts

BID # 20171038

Jonathan F. Mitchell
Mayor

Environmental Stewardship
133 William Street
New Bedford, MA 02740
CITY OF NEW BEDFORD

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Turf Specifications Drawings: ATTACHMENT A
CITY OF NEW BEDFORD
PURCHASING DEPARTMENT

INVITATION FOR BID # 20171038

The City of New Bedford invites sealed bids in accordance with M.G.L. c.30, §39M from Contractors for:

Keith Middle School Turf Construction Project

Bids will be received until: **Friday December 13, 2019 at 10:00 am**

At the Purchasing Department, Room 208, City of New Bedford City Hall, 133 William Street. New Bedford, MA 02740. Bids will not be accepted nor may submitted bids be corrected, modified or withdrawn after the deadline for bids. Immediately following the deadline for bids, all bids received within the time specified will be publicly opened and read aloud.

The proposed project involves the complete preparation, install a Synthetic Turf System and restoration of the Nemasket Field Recreation Area (the site).

SPECIAL CONSIDERATIONS:

A. The project may require construction in areas occupied by business owners, employees and customers.
B. Contractors must accommodate customers visiting businesses adjacent to the work zone.
C. Pedestrian access and safety around the construction area is the responsibility of the contractor.
D. Upon completion of the work the affected areas, including areas within the businesses disturbed during construction, shall be restored to original condition.
E. The contractor shall review all project limits with the Engineer prior to commencement of work.

This Invitation For Bids and all related documents and attachment (collectively, “Contract Documents”) will be available visiting the City of New Bedford web page [www.newbedford-ma.gov/purchasing](http://www.newbedford-ma.gov/purchasing) or emailing purchasing@newbedford-ma.gov on or after Wednesday November 13, 2019. Bids must be submitted with one (1) original and one (1) copy.

A bid deposit in an amount that is not less than five percent (5%) of the value of the bid, including all add alternates, is required. Bid deposits, payable to the City of New Bedford, shall be either 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. The City of New Bedford will award the contract to the lowest eligible and responsible bidder. Please Note: this bid, in accordance with the Chapter 303 Acts of 2008, contains Price Adjustments and new Prevailing Wage requirements. All bidders are required to familiarize themselves with these terms and conditions before submitting a bid.

Bidders are reminded that the bid deposit covers the City for damages when a bidder withdraws its bid after the bid submission date. **Be advised that to the extent permitted by the law the City will retain all bid deposits for withdrawn bids.**

The costs of any bond and any insurance required in this Invitation For Bid are the responsibility of the bidder; such costs will not be reimbursed by City and should be included in your bid.

It is anticipated work will start upon execution of contract, when a Notice to Proceed shall be issued. **Time for completion is time frame “six (6) months” from Notice to Proceed.**
All bids are subject to the provisions of M.G.L. Chapter 30, Section §39M. Wages are subject to minimum wage rates determined by the Massachusetts Department of Labor and Industries pursuant to M.G.L. Chapter 149, Sec. 26 to 27H. The schedule of wage rates applicable to this contract is included in the bidding documents. In addition, the prevailing wage schedule will be updated annually for all public construction projects lasting longer than one (1) year. You will be required to pay the rates set out in any updated prevailing wage schedule. Increases in prevailing wage schedules will not be the basis for change order requests. The successful bidder will be required to provide a Certificate of Insurance demonstrating current coverage of the type and amounts set forth in the Project Manual. The successful bidder will be required to furnish a Labor and Materials Payment Bond in the amount of 50% of the contract total. Wages are paid to drivers for all “on-site” work.

Once you’ve downloaded this bid from the internet website www.newbedford-ma.gov/purchasing I strongly suggest you email (purchasing@newbedford-ma.gov) your company’s name, address, email, phone, fax and the INVITATION FOR BID NUMBER and project title, so that we may add you to the Bidders List and you will be notified of any/all addendums.

The City will reject any and all bids in accordance with the above referenced General Laws. In addition, the City reserves the right to waive minor informalities in any or all bids, or to reject any or all bids (in whole or in part) if it be in the public interest to do so.

In the event that any person wishes to attend a bid opening or pre-bid meeting, accessible and reasonable accommodations will be provided to persons requiring assistance. If you need a reasonable accommodation, please contact the City of New Bedford Assistant Procurement Officer/Buyer, Richard Calderon, at least two business days in advance of the meeting: richard.calderon@newbedford-ma.gov or 508-979-1433.

A Non-mandatory Site Inspection will be held on Wednesday, November 20, 2019 at 10:00 a.m. at 225 Hathaway blvd, New Bedford, MA.

AWARDING AUTHORITY
CITY OF NEW BEDFORD
PURCHASING DEPARTMENT

END OF SECTION
CITY OF NEW BEDFORD
DEPARTMENT OF PURCHASING
INSTRUCTIONS TO BIDDERS

ARTICLE 1 – BIDDER’S REPRESENTATION

1.1 Each General Bidder (herein called the “Bidder”) by making a bid (hereinafter called “bid”) represents that:

   1. The Bidder has read and understands the Bidding Documents, Contract Forms, General conditions, Conditions of the Contract, General Requirements and project Specifications (collectively, referred to as the “Contract Documents”) and the bid is made in accordance therewith.

   2. The Bidder has visited the work site and is familiar with the local conditions under which the work has to be performed.

1.2 Failure to so examine the Contract Documents and work site will not relieve any bidder from any obligation under the bid as submitted.

ARTICLE 2 – REQUEST FOR INTERPRETATION

2.1 Bidders shall promptly notify the City of any ambiguity, inconsistency, or error which they may discover upon examination of the Contract Documents, the site, and local conditions.

2.2 Bidder requiring clarification or interpretation of the Contract Documents shall make a written request by emailing purchasing@newbedford-ma.gov. The City will only answer such requests if received by 4:00 P.M. Wednesday November 27, 2019. In the event that the bid opening date is changed, the deadline for informational requests may also change as provided in an addendum issued by the City.

2.3 Interpretation, correction, or change in the Contract Documents will be made by addendum which will become part of the Contract Documents. The City will not be held accountable for any oral communication.

2.4 Addenda will be emailed to every individual or firm on record as having taken a set of Contract Documents. Addenda will be emailed to every individual or firm on record as having taken a set of Contract Documents. Receipt of all addenda issued must be acknowledged in the Bid Form. YOUR FAILURE TO ACKNOWLEDGE ALL ADDENDA MAY RESULT IN YOUR BID BEING REJECTED AS NON-RESPONSIVE.

2.5 Copies of addenda will be made available for inspection at the location listed in the Invitation for Bids where Contract Documents are on file, in addition to being available online at www.newbedford-ma.gov/purchasing.

2.6 Bidders or proposer contacting ANY CITY EMPLOYEE regarding an Invitation for Bid (IFB) or a Request for Proposal (RFP), outside of the Purchasing Department, once an IFB or RFP has been released, may be disqualified from the procurement process.

2.7 Bidders downloading information off the internet web site are solely responsible for obtaining any addenda prior to the bid opening. If the bidder makes itself known to the Purchasing Department, at purchasing@newbedford-ma.gov or via phone (508) 979-1433, it shall be placed on the bidder’s list. Bidders must provide the Purchasing Department with their company’s name, street address, city, state, zip, phone, fax, email address and INVITATION FOR BID # 20171038.
ARTICLE 3 – MBE/WBE PARTICIPATION

3.1 Notice is hereby given that the Mayor’s Affirmative Action Plan for the City of New Bedford in effect at the time of this solicitation is applicable to all construction in excess of $10,000.00.

3.2 Notice is hereby given that the City of New Bedford Minority/Women Business Enterprise Plan and the Supplemental Equal Employment Opportunity Anti-Discrimination and Affirmative Action program in effect at the time of this solicitation are applicable to all City contracts for goods and services of $50,000.00.

3.3 Copies of the Plans and Program referred to in Section 3.1 and 3.2 are available at: www.newbedford-ma.gov/purchasing.

ARTICLE 4 – PREPARATION AND SUBMISSION OF BIDS

4.1 Bids shall be submitted on the “Bid Form” as appropriate, furnished by the City.

4.2 All Entries on the Bid Form shall be made by typewriter or in ink.

4.3 Where so indicated on the Bid Form, sums shall be expressed in both words and figures. Where there is a discrepancy between the bid sum expressed in words and the bid sum expressed in figures, the words shall control.

4.4 Bid Deposits shall be submitted in the amount specified in the Invitation for Bids. They shall be made payable to the City and shall be either in the form of cash, certified check, treasurer’s or cashier’s check issued by a responsible bank or trust company, or a bid bond issued by a surety licensed to do business in the Commonwealth of Massachusetts; and shall be conditioned upon the faithful performance by the principal of the agreements contained in the bid. Bidders are reminded that the bid deposit covers the City for damages when a bidder withdraws its bid after the bid submission date. **Be advised that to the extent permitted by the law the City will retain all bid deposits for withdrawn bids.**

Bid deposits of the three (3) lowest responsible and eligible Bidders shall be retained until the execution and delivery of the City – Contractor agreement.

4.5 The Bid, including the bid deposit shall be enclosed in a sealed envelope with the following plainly marked on the outside:

* GENERAL BID FOR: BID # 20171038

* NAME OF PROJECT: Keith Middle School Turf Construction Project

* BIDDER’S NAME, BUSINESS ADDRESS, AND PHONE NUMBER

4.6 Date and time for receipt of bids is set forth in the Invitation for Bids.

4.7 Timely delivery of a bid at the location designated shall be the full responsibility of the Bidder. In the event that New Bedford City Hall is closed on the date or at the time that bids are due, the date and time for receipt of bids shall be on the next business day following that City of New Bedford City Hall and the Purchasing Department are open.

4.8 Bids shall be submitted with one (1) original and one (1) copy.

4.9 Be advised that a new Massachusetts law has been enacted that required all employees who work on Massachusetts public works construction sites must have no less than 10 hours of OSHA-approved safety and health training. See Chapter 306 of the Acts of 2004, which became effective July 1, 2006.

1. This requirement will apply to any general bid or sub bid submitted.
2. This law directs the Massachusetts Attorney General to restrain the award of construction contracts to any contractor who is in violation to this requirement and to restrain the performance of these contracts by non-complying contractors.
3. The contractor and all subcontractors on this project will be required to provide certification of compliance with this requirement. Non-compliance with this law will disqualify you from bidding on public contracts.

ARTICLE 5 – ALTERNATES

5.1 Each Bidder shall acknowledge alternatives (if any) in Section C on the Bid Form.

5.2 In the event an alternate does not involve a change in the amount of the base bid, the Bidder shall so indicate by writing “No Change”, or “N/C” or “0” in the space provided for that alternate.

5.3 Bidders shall enter on the Bid Form a single amount for each alternate which shall consist of the amount for work performed by the Contractor.

5.4 The low Bidder will be determined on the basis of the sum of the base bid and the accepted alternates.

ARTICLE 6 – WITHDRAWAL OF BIDS

6.1 Any bid may be withdrawn prior to the time designated for receipt of bids on written or electronic request. Electronic withdrawal of bids must be confirmed over the Bidder’s signature by written notice postmarked on or before the date and time set for receipt of bids.

6.2 Withdrawn bids may be resubmitted up to the time designated for the receipt of bids.

6.3 No bids may be withdrawn within sixty (60) days, Saturdays, Sundays, and legal holidays excluded, after the opening of the bids.

ARTICLE 7 – CONTRACT AWARD

7.1 The City is soliciting prices for items set forth in the Item Sheets, attached hereto. It is the City’s intent to award separate contracts for each item to the lowest, responsive and responsible bidder for each item. Accordingly, the City may award one (1) contract, or as many contracts as there are bidders. Contracts will be awarded within sixty (60) days, Saturdays, Sundays, and legal holidays excluded, after the opening of bids.

7.2 The City reserves the right to waive minor informalities in or to reject any or all Bids if it be in the public interest to do so.

7.3 The City reserves the right to reject any bidder who has failed to pay any local taxes, fees, assessments, betterments, or any other municipal charge, unless the bidder has a pending abatement application or has entered into a payment agreement with the collector-treasurer.

7.4 As used herein, 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 has met all the requirements of the invitation for bids; (3) who shall certify that he is able to furnish labor that can work in harmony with all other elements of labor employed in the work; (4) who, where the provisions of section 8 B of chapter 29 apply, shall have been determined to be qualified thereunder.

7.5 Subsequent to the award and within five (5) days, Saturday, Sundays, and legal holidays excluded, after the prescribed forms are presented for signatures, the successful bidder shall execute and deliver to the City a contract in the form included in the Contract Documents in such number of counterparts as the City may require.
7.6 In the event that the City receives low bids in identical amount from two or more responsive and responsible Bidders, the City shall select the successful Bidder by a blind selection process chosen by the City such as flipping a coin or drawing names from a hat. The low Bidders, who are under consideration, will be invited to attend and observe the selection process.

ARTICLE 8 – TAXES

8.1 The Bidder shall not include in this bid any tax imposed upon the sale or rental of tangible personal property in this Commonwealth, such as any and all building material, supplies, services, and equipment required to complete the work.

8.2 The City is exempt from payment of the Massachusetts Sales Tax, and the Bidder shall not include any sales tax on its bid. The City’s exemption Number is E-046-001-402.

ARTICLE 9 – PROPERTY SPECIFICATIONS

9.1 The City may have used a proprietary specification to describe the supply for which it is soliciting bids. Such specifications are permitted under M.G.L. 30B, §14, provided that the Chief Procurement Officer has prepared a written statement that no other manner of description suffices and the justification thereof.

9.2 The required determination and justification have been duly prepared, and a copy may be requested in accordance with the Massachusetts Public Records Law, M.G.L. c.66, §10.

ARTICLE 10 – ENVIRONMENTAL PREFERABLE PRODUCTS

10.1 The City encourages environmentally preferable products, i.e., products or services that have less negative or more positive effects on human health and the environment when compared with competing products or services that serve the same purpose. The City encourages bidders to describe, in the space provided on the Bid Form, the environmental attributes of its goods and services throughout the entire life-cycle, including manufacture, use and disposition. This information may include multiple environmental considerations such as natural resource use, recycled content, energy and water efficiency, greenhouse gas emissions, impact on climate change, packaging, hazardous materials use, and health and safety impacts on workers, consumers and the community. If you do not currently assess such attributes, please indicate that. However you respond, The City will not take your information into account in evaluating bid proposals.

10.2 Bidders are encouraged also to provide information related to steps they take internally to (a) identify any positive or negative environmental attributes of products or services they offer, as specified above, and (b) ensure that those attributes are being addressed as part of operations.
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DIVISION 01 – GENERAL REQUIREMENTS
SECTION 0111100 SUMMARY OF WORK

PART 1 GENERAL

This section summarizes the work to be completed as part of this contract to complete preparation, install a Synthetic Turf System and restoration of the Nemasket Field Recreation Area (the Site).

1.1 RELATED SECTIONS
   A. Drawings, specifications and general provisions of the Contract Documents, including General and Supplementary conditions.

1.2 CONTRACT DESCRIPTION
   A. Provide all labor, equipment, and materials necessary to perform the Scope of Work (Work) indicated in the Contract Documents.

1.3 SUMMARY OF WORK
   A. The Scope of Work specified herein includes all work specified in the Contract Documents including but not limited to:
      1. Install, maintain and inspect erosion controls until all exposed land surfaces have been stabilized
      2. Clearing as necessary to complete the work as specified in the Contract Documents.
      3. Installing and compacting fill material to achieve necessary grades as specified in the Contract Documents
      4. Installation of a Synthetic Turf System
      5. Installation of perimeter drains, outlet control structures and stormwater outlet
      6. Conduct final grading, capping, and installation of curbing as shown on Contract Drawings.
      7. Install fencing, stairs, gates, wheelchair ramps etc. to allow and control access to the field
1.4 CURRENT CONDITIONS

A. The Work overlies fill material that has been impacted by polychlorinated biphenyls (PCBs). The project design concept has been reviewed and approved by the United States Environmental Protection Agency, and any variances from the Contract Documents will require written approval from the Owner.

B. Prior work on the Nemasket Property (Property) is detailed as follows:

a. Summer 2018:
   I. Nemasket lot brush hogged
   II. Temporary fencing established around the Property
   III. Stabilized construction access/entrance on Hathaway Boulevard

b. Between October 2018 to April 2019:
   I. Erosion control installed
   II. Stabilized construction access/entrance on Ruggles Street.

c. Present Day:
   I. Property has been clear cut, grubbed, regraded and capped to affect a clean construction envelope
   II. Utility corridors have been over-excavated and backfilled with clean fill to accommodate future installation of drain lines and other utility service in a clean envelope
   III. Drainage utilities have not been installed

   IV. A safety fence warning layer has been installed at a depth of approximately 12-inches. All areas outside of and adjacent to the planned Turf Field Area have been excavated and regraded to accommodate a 3-foot separation layer which is underlain by geotextile and a “warning layer” of fluorescent orange snow fence that has been emplaced approximately 3-6” above the geotextile barrier. These areas have been subsequently covered by 2-2.5 feet of compacted processed sand and gravel import.

   V. The subgrade beneath the Turf Field Area was covered with geotextile barrier, then covered with a 1-foot drainage layer of 1¼” minus crushed stone with the “warning layer” of fluorescent orange snow fence emplaced approximately 3-6” above the geotextile barrier as indicated in the Drawings.

d. Erosion and Grading:
   I. Outwash and redistribution of steeply sloped areas required regrading
   II. The results of a survey conducted in June 2019 of the surface of the Nemasket Property is included in the Contract Documents.

e. Drainage Layer:
   I. Compacted, surveyed, and graded to grades indicated in the Contract Documents
   II. Drainage layer covered by biaxial geogrid across athletic field
   III. Grid covered by an average of 8” of rough graded ½”-minus crushed stone. This upper stone bed directly underlies the upper turf field sequence and was not finely graded as this effort would be premature due to expected differential settling anticipated due to site loading and subsidence.

f. Survey:
I. June 2019 Survey Data indicates that 0.1-0.3’ of initial settling has occurred. The survey results are included in the Contract Documents.

PART 2 PRODUCTS
Not Used.

PART 3 EXECUTION
Not Used.

END OF SECTION 011100
SECTION 014216 SUPPLEMENTARY DEFINITIONS

PART 1 GENERAL

This section adds additional definitions for the project to complement existing terms and conditions from the City of New Bedford. The definitions are as follows:

Clean Utility Corridor - The area along the southern boundary of the field with a concrete corridor to contain utilities.

Contractor – The individual or Company that is selected by the City of New Bedford to complete the work identified in the Contract Documents.

Foam Sub-Base – Material added to the sub-grade to improve the Turf Field Area’s ability to absorb impacts from sport activity.

Geotextile - Permeable textile material used to increase soil stability, provide erosion control or aid in drainage.

Nemasket Field Recreation Area – The site in total at the corner of Hathaway Boulevard and Ruggles Street.

Nemasket Property - The site in total at the corner of Hathaway Boulevard and Ruggles Street.

Representative – A person or entity chosen by and acting on behalf of the City of New Bedford.

Scope of Work – Extents and details of construction and/or installation.

Site – Nemasket Field Recreation Area.

Synthetic Turf Carpet - the top layer of the Synthetic Turf System, comprised of a layer of synthetic turf.

Synthetic Turf Installer – The contractor responsible for the installation of the Synthetic Turf System.

Synthetic Turf System – Includes the Turf Field System, Infill, Synthetic Turf Carpet and Linework if Option 9B is included in the Contract Documents. Also includes subgrade and drainage system.

Turf Field Area – Playing area covered with synthetic turf.

Work – Alternate term for Scope of Work.

END OF SECTION 014216
PART 1 GENERAL

This section describes requirements for the restoration of the Property prior to acceptance by the Owner. In this instance “site restoration” means to clean and restore the site following construction of the Synthetic Turf System and not to the original field conditions prior to remediation and construction of the Synthetic Turf System.

1.1 RELATED SECTIONS

A. All Contract Documents

1.2 ACCEPTANCE PROCEDURES

A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Owner or Owner’s Representative review.

B. Contractor will conduct a site walkover with the Owner or its Representative prior to final acceptance of the Work to ensure that all site cleaning and restoration actions have been completed to the satisfaction of the Owner or its Representative.

1.3 MATERIAL REMOVAL

A. Remove any remaining debris from clearing and grubby operations from the site. Dispose of in accordance with regulatory requirements.

B. Remove and dispose of soil stockpiles off-site in accordance with soil characteristics and regulatory requirements.

C. Remove, dispose of any drums, containers, liners, etc. off-site used to temporarily store and/or contain excavated soils.

D. Remove construction debris, waste materials, packaging material and the like from the work site, including excess stone, pipe, geotextiles, etc.

E. Remove waste and surplus materials, rubbish, and construction facilities from the Nemasket Property.

1.4 FINAL CLEANING

A. Execute final cleaning of the entire Nemasket Property prior to final project acceptance by the Owner or its Representative.

B. Clear any dirt or mud which is tracked onto paved or surfaced roadways.

C. The Site and Synthetic Turf System must be cleaned of all materials associated with the installation. The Synthetic Turf System and surfaces must be cleaned of dirt, stains, filings, and other blemishes occurring from shipment and installation.
1.5 RESTORATION

A. Upon completion of the Work remove signs, barricades, and any other temporary products used during construction from the Nemasket Property.

B. After removal of any trailers, materials, and equipment from within the fenced area, remove any temporary access fencing.

C. Restore areas used during the performance of the contract to the original or better condition.

D. Remove gravel, mats, etc. used to traverse grassed areas and restore the area to its final, playable condition, including topsoil and seeding as necessary.

E. Remove temporary environmental controls including hay bales, silt fence, inlet protections, etc.

F. Clean Nemasket Property, rake clean all surfaces.

H. Recycle, salvage, and return construction and remediation waste from project.

1.6 SITE PROTECTION

A. Existing areas that have been damaged from the cleaning and restoration operation must be restored to original condition at the Contractor’s expense.

PART 2 PRODUCTS
Not Used.

PART 3 EXECUTION
Not Used.

END OF SECTION 017440
DIVISION 31 – EARTHWORK
SECTION 312216 - FINE GRADING

PART 1 - GENERAL

1.1 SUMMARY

A. The Work in this section consists of providing material as necessary and fine grading the Work area to match the elevations and grades identified herein and in the Contract Documents. Fine grading is to be performed on the Finished Stone Layer, Perimeter Concrete Curbing and areas that will receive Underdrain Pipe and all other areas where existing conditions differ from those identified in the Contract Documents.

1.2 WORK INCLUDED

A. Provide all labor, materials, necessary equipment and services to complete the fine grading work, as indicated on the Contract Documents, as specified herein or both.

Perform the work covered by this section on all portions of the Work in the Contract Documents including, but not limited to, preparing, grading, shaping, manipulating, moisture content, and compacting material including placement of the stone drainage layer, turf support layer, in order to receive the Synthetic Turf System.

Install precast concrete curbing as necessary to install the Synthetic Turf System around the perimeter of the Synthetic Turf System and along the edge of the graded area along Ruggles Street and along the sidewalk adjacent to Hathaway Boulevard.

Fine grading shall also be performed prior to placement of the Underdrains and surrounding landscape.

B. Related Work:

1. Section 325200: Synthetic Field System
2. Section 334600: Subdrainage
3. Section 334900: Storm Drainage Structures

1.3 REFERENCES

A. ASTM International (ASTM):

2. Standard Specifications for Highways and Bridges by the Massachusetts Highway Department Metric Edition

B. Synthetic Turf Council

1. Guidelines for Synthetic Turf Base Systems, February 2017

1.4 SUBMITTALS

A. Crushed Stone

1. Gradation results
2. Certification that crushed stone is free of contamination with supporting test results
1.5 SITE INSPECTION

A. The Contractor shall visit the Site pre-bid and become acquainted with and confirm all existing conditions. The Contractor shall be responsible for their own subsurface investigations, as necessary, to satisfy requirements of this Section. All subsurface investigations shall be performed only under time schedules and arrangements approved in advance by the Owner or its Representative.

1.5 EXISTING CONDITIONS:

A. The Contract Documents show grades surveyed in June 2019 and may differ from current conditions.

B. The Contractor shall make whatever adjustments are necessary to provide finish grades consistent with the requirements of the grading shown in the Contract Documents in order to ensure effective placement of the Synthetic Turf System.

C. Verify that work may proceed in complete accordance with the Contract Documents. In the event of any noted discrepancy, immediately notify the Owner or its Representative prior to proceeding with further Work.

1.6 UTILITIES:

A. Locate all existing, active utility lines adjacent to and traversing the Nemasket Property and determine the requirements for their protection. Preserve in operating condition all active utilities adjacent to or traversing the Nemasket Property that are designated to remain. The Contractor shall contact Dig Safe to verify the presence and/or absence of utilities in the Nemasket Property and immediate vicinity.

B. Observe rules and regulations governing respective utilities while conducting all Work. Adequately protect utilities from damage. Record location of active utilities.

1.7 QUALITY ASSURANCE:

A. Comply with requirements of all applicable building codes and other public agencies having jurisdiction upon the work.

B. The Contractor shall employ skilled personnel and any necessary equipment to ensure that finish grading is compacted to the densities stated in this specification, smooth and free of undulations and meets the tolerances specified in these Contract Documents. The finished grading shall be suitable to receive the placement of the Synthetic Turf System at the slopes and grades shown on the Contract Documents to meet the Guidelines of the Synthetic Turf Council.

C. The words “Finished Grade” as used herein will mean final grade elevations indicated on the Contract Documents. Work areas will be given uniform slope between points for which finished grades are indicated or between such points and existing established grades except at the top and toe of slopes where curving, smooth and continuous slopes will be established.
D. The Contractor shall employ a Licensed Professional Land Surveyor to survey finished grade elevations at the end of work to ensure compliance with extents and grades specified in the Contract Documents.

PART 2 – PRODUCTS

2.1. CRUSHED STONE:

A. Unless otherwise specified in the Contract Documents, fill material identified in the Contract Drawings shall comply with the Standard Specifications for Highways and Bridges by the Massachusetts Highway Department Metric Edition dated 1995 as noted on the Contract Documents and as follows:

1. Crushed stone and ¾” Crushed Stone – M2.01.4
2. 1” Minus (“No. 57”) - M.2.04.1
3. 1 ¼” Minus – M2.01.3
4. Rip Rap – M2.02.3

2.2. GEOMATERIALS:

A. Geotextile Fabric

1. Mirafi 140N or approved equal
2. Excel PP5-10 or approved equal

2.3 PRECAST CONCRETE:

A. Unless otherwise specified in the Contract Documents, Precast Concrete Curbing in the Contract Documents shall comply with the Standard Specifications for Highways and Bridges by the Massachusetts Highway Department Metric Edition dated 1995 as noted on the Contract Drawings and as follows:

1. Precast Concrete Curbing – M4.02.14 with #5 rebar connecting pins measuring 6-inches in width and 18-inches in depth or approved equal.

PART 3 - EXECUTION

3.1 JOB CONDITIONS:

A. Dust Control: Use all means necessary to prevent dust from construction operations from being a nuisance on adjacent properties and from damaging finish surfaces on adjacent building, paving, etc. Methods used for dust control are subject to approval by the Owner or its Representative.

B. Burning: On-site burning will not be permitted.

C. Protection: Use all means necessary to protect curbs, gutters, sprinklers, utilities and vegetation to remain, and, in the event of damage, immediately make all repairs, replacements and dressings to damaged plants necessary to the approval of the Owner or its Representative. When at fault, Contractor shall incur all cost for the replacement of damaged objects and vegetation.

3.2 SCHEDULING:

A. Schedule all work in a careful manner with all necessary consideration for adjoining property owners and the public. All scheduled work shall be presented to the Owner or its Representative for approval prior to initiation of the Work.
3.3 SUBGRADE PREPARATION

A. PLACEMENT

Fill material shall be placed in loose lifts not exceeding six (6) inches for areas beneath site structures including underdrains, and the Synthetic Turf System.

Depressions and/or cavities shall be filled prior to Compaction and Grading using materials specified in the Contract Documents. Fill in depressions and cavities shall be in maximum lifts of 6 inches with each lift compacted to the required density.

Install Precast Concrete Curbing in accordance with the manufacturer’s recommendations. Thoroughly examine each section of Precast Concrete Curbing before being laid; do not use defective or damaged material. Do not install Precast Concrete Curbing when the trench conditions or weather is unsuitable for such work. Remove water from trenches by sump pumping or other approved methods.

3.4 COMPACTION

A. Layers in place, and additional fill beneath the Underdrains, and the Synthetic Turf System shall be compacted to 95% Dry Density in accordance with procedures provided in ASTM D1557: Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort. Drying or adding moisture to the subgrade to provide a uniformly compacted and smooth subgrade.

Fill in areas not supporting the listed Underdrains and Synthetic Turf, may be compacted to 90% Dry Density in accordance with ASTM D1557. The surface of the Fine Drainage Stone Layer shall be proof rolled prior to receiving the Foam Sub-Base.

The Contractor shall provide documentation both from the laboratory, field tests, and project inspection records that the compaction requirements are met. If specified compaction cannot be met the Contractor shall provide justification to the Owner or its Representative for an acceptable alternative density.

Precast Concrete Curbing shall be installed on a base compacted to 95% Dry Density as specified above.

3.5 GRADING:

A. The Contractor shall establish finished grades as shown on the Contract Documents or as directed by the Owner or its Representative, including areas where the existing grade has been disturbed by other work.

B. A single benchmark must be established prior to final placement of fill materials, underdrain piping, and final grading. It shall be maintained by a licensed surveyor of record during the entire construction process.

C. The surface of the subgrade shall be shaped to the lines, grades and typical sections shown on the plans to facilitate drainage to the lateral collection drains. The surface of the subgrade to support the Synthetic Turf Layer shall be graded to the lateral collection drains at a slope of 0.5%. The grading pattern shall conform to the Longitudinal Ridge Method: Center crown across the center axis, from end to end, sloping towards the sides. This pattern ensures the shortest runoff distance.

D. Surface shall not vary by more than ¼ inch over 10 feet above or below the established grade, and all ground surfaces shall vary uniformly between indicated grades as shown on the drawings.

E. The grade tolerances shall be checked over the whole surface, including the corners of the field, next to the curbs, and along the sides of the curbs around the field. After checking these areas, the remainder of the field shall be checked.
F. Lay the Precast Concrete Curbing to the grades and alignment as indicated in the Contract Drawings.

3.6 EROSION CONTROL:

A. Erosion controls have been installed as part of earlier work and may need to be modified, maintained and/or repaired by the Contractor as necessary to meet the requirement of the Stormwater Pollution Prevention Plan. The Contract Documents provide additional details on the erosion controls that must be in place during the execution of the work.

B. Erosion controls shall be installed in accordance with the manufacturer’s recommendations including using anchors, staples and/or pins as necessary.

END OF SECTION 312216
DIVISION 32 – EXTERIOR IMPROVEMENTS
SECTION 323113 – CHAIN LINK FENCES, GATES AND ACCESS

PART 1 - GENERAL

This work shall consist of the construction of chain link fence, gates, stairs and wheelchair ramps in accordance with these specifications in close conformity with the lines and grades shown on the Contract Documents. Chain link fence shall be vinyl coated steel. The portion of the fence in the northwest corner of the site has not been permitted by the New Bedford Conservation Commission. An Amendment to the existing Order of Conditions has been submitted.

1.1 SUMMARY

A. Related Documents:
   1. Drawings, specifications and general provisions of the Contract, including General and Supplementary conditions.

B. Section Includes:
   1. Fence framework, fabric, and accessories.
   2. Excavation for posts.
   3. Concrete encasement for posts.
   5. Stairs
   6. Wheelchair Access Ramp

1.2 REFERENCES

A. General:
   1. The following documents form part of the Contract Documents to the extent stated. Where differences exist between codes and standards, the one affording the greatest protection shall apply.
   2. Unless otherwise noted, the referenced standard edition is the current one at the time of commencement of the Work.
      b. ASTM C94 / C94M Standard Specification for Ready-Mixed Concrete
      c. ASTM D 412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension
      d. ASTM D 792 Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
      e. ASTM D 1499 Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Plastics
      f. ASTM D 2240 Test Method for Rubber Property—Durometer Hardness
      g. ASTM F 668 Standard Specification for Polyvinyl Chloride (PVC) and Other Organic Polymer-Coated Steel Chain-Link Fence Fabric
      h. ASTM F 1043 Specification for Strength and Protective Coatings on Steel Industrial Fence Framework
1.3 SUBMITTALS

A. Submit shop drawings and product data for approval.

B. Layout of fences, gates, handrails, stairs and wheelchair ramp with dimensions, details and finishes of components, accessories and post foundations accessories, fittings, hardware, anchorages, and schedule of components.

C. Manufacturer's catalog cuts indicating material compliance and specified options.

D. Manufacturer's installation instructions.

E. Precast concrete design drawings for stairs and wheelchair access ramp stamped by a Licensed Massachusetts Architect

1.4 DELIVERY STORAGE AND HANDLING

A. Upon receipt at the job site, all materials shall be checked to ensure that no damages occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage and to protect against damage, weather, vandalism and theft.

B. Comply with precast concrete manufacturer’s instructions and ASTM C913 for unloading, storing and moving precast structures.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Vinyl Fencing: Materials for vinyl coated chain link fence shall be as specified herein. Material shall be of the same color of vinyl coating. Painted finishes are not acceptable. The color for this job is the manufacturer’s standard black as approved by the Owner.

B. Posts and Braces:
   1. Hot-dipped galvanized Schedule 40 pipe conforming to ASTM-F1083.

C. Fabric:
   1. Galvanized (zinc) coated steel chain link fabric per ASTM A392

D. Accessories: MassHighway Specification M8.09.1

E. Gates: MassHighway Specification M8.09.1

F. Stairs: Precast concrete - MassHighway Specification M4.02.14

G. Wheelchair Ramp: Precast Concrete - MassHighway Specification M4.02.14

2.2 CONCRETE MIX

A. Concrete for Setting Fence Posts: ASTM C 94; type II Portland Cement; 2500 psi at 28 days; 3 inch (75 mm) slump;
3/4 inch (20 mm) maximum size aggregate.

2.3 COMPONENTS

A. Notwithstanding the following, post, rails and braces shall conform to strength requirements of ASTM F1043 or ASTM F1083 and Uniform Building Code: Chapter 23, Sec. 2303(d).

B. Line Posts: 2.375 inch (59 mm) outside diameter, Schedule 40 galvanized steel pipe or galvanized "H" columns weighing not less than 2.7 lb./ft (13.18 kg/m²).

C. Corner and Terminal Posts: 2.875 inch (73 mm) outside diameter, Schedule 40 galvanized steel pipe.

D. Gate Posts: 3.500-inch (89 mm) diameter for man gates and 6.625 inch (168 mm) diameter for vehicular gates; gateposts to be galvanized steel pipe.

E. Top, Bottom and Brace Rail: 1.660 inch (42.16 mm) outside diameter, plain end, sleeve coupled galvanized steel pipe.

F. Gate Frame: 1.9 inch (48.26 mm) outside diameter Schedule 40 galvanized steel pipe for fittings and truss rod fabrication.

G. Fabric/Vinyl Coated Steel: Chain link fence fabric shall be galvanized steel wire with a continuously bonded vinyl coating, with a finish size (i.e., size after coating) of 8 gauge, and shall comply with ASTM F 668. Fabric height shall be as specified in the drawings with knuckled, selvage edges on the bottom and top. Mesh shall be vertically woven diamond mesh, with a nominal distance of 2 inches (50 mm) between parallel wires.

H. Tension Bars: 3/16 inches by 3/4 inch (4.76 mm by 20 mm) galvanized steel flat bars.

I. Caps: Cast steel or malleable iron, galvanized, sized to post dimension, set screw retained.

J. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings shall be galvanized steel.

K. Extension Arms: Cast steel, to accommodate 3 strands of barbed wire, single arm, 12 inches (305 mm) high (measured vertically) above the top edge of the fence fabric, sloped to 45 degrees.

L. Gate Hardware: Fork type latch with gravity drop; center gate stop and drop rod; three 180 degree gate hinges per leaf.

2.4 FINISHES

A. Galvanized Surfaces: Galvanize surfaces in accordance with ASTM A 123, with a coating of at least 1.20 oz/sq. ft.

B. In accordance with ASTM F 1043, PVC shall be applied to all pipe and framework by the fusion bonding process (thermally fused and adhered to a primer that is thermally cured to the galvanized steel) to produce a vinyl thickness of 10-14 mils. Test for adhesion shall be bond of vinyl coating to substrate will be greater than cohesive strength of vinyl itself. Color black.

C. In accordance with ASTM F626, fittings shall have a polymer coating minimum thickness .006 (.152 mm) fused and adhered to zinc coated fittings. Color black.

D. Accessories and Components: Same finish as fabric.

2.5 VINYL COATING

A. The vinyl coating shall conform to FS RR F 191/1C.
B. Colors shall be stabilized and shall have a light fastness to withstand a minimum Weather O Meter exposure of at least 1500 hours without deterioration when tested in accordance with ASTM D 1499.
C. Specific gravity shall be between 1.26 and 1.30 in accordance with ASTM D 792.
D. Hardness shall be A90 +/- 5 in accordance with ASTM D 2240.
E. Tensile strength shall be between 2600 and 3000 psi (17.94 MPa and 20.7 MPa) in accordance with ASTM D 412.
F. Vinyl coating shall be exposure resistant to dilute solutions of most common mineral acids, sea water, salts, and alkali.
G. Vinyl coating shall be continuously bonded to the wire under 5000 psi (34.5 MPa) pressure before the wire is woven into fabric.

2.6 WHEELCHAIR RAMP
A. Must be consistent with all applicable regulations and codes.
B. Precast concrete 4,000 PSI minimum after 28 days
C. Load rating 300 psf
D. Reinforcement #3 Grade 60
E. Circular cross section galvanized steel 1 ½-inch diameter handrails consistent with applicable standards

2.7 STAIRS
A. Must be consistent with all applicable regulations and codes.
B. Precast concrete 4,000 PSI minimum after 28 days
C. Load rating 300 psf
D. Reinforcement #3 Grade 60
E. Circular cross section galvanized steel 1 ½-inch diameter handrails consistent with applicable standards

PART 3 - EXECUTION

3.1 INSTALLATION
A. Fencing
   1. Must be consistent with all applicable regulations and codes.
   2. Install framework, fabric, accessories, and gates in accordance with ASTM F567.
   3. Install security fence of fabric height shown in Drawings.
   4. Space line posts at intervals not exceeding 10 feet (3 m).
   5. Set gate and posts plumb, in concrete footings with top of footing 1 inch (25 mm) above finish grade. Slope top of concrete for water runoff. Footings for line end and corner posts are to be 8 inches (203) diameter by 3 feet (0.99 m) deep below finish grade and for gates are to be 12 inches (305 mm) diameter by 3 feet 6 inches (1 m) deep below finish grade.
   6. Provide top rail through line post tops and splice with 7 inch (178 mm) long rail sleeves.
   7. Brace each gate and corner post back to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail, one bay from end and gate posts.
8. Install center and bottom brace rail on corner and gate leaves.
9. Stretch fabric between terminal posts or at intervals of 100 feet (30.5 m) maximum, whichever is less.
10. Position bottom of fabric to no more than 2 inches (50 mm) above concrete or asphalt grade and touching dirt finish grade.
11. Fasten fabric to top rail, line posts, braces, and bottom tension wire with 11 AWG galvanized wire ties 24 inches (610 mm) maximum on centers.
12. Attach fabric to end, corner, and gateposts with tension bars and tension bar clips.
13. Install bottom rail supported at each line and terminal post in such a manner that a continuous brace between posts is formed.

B. Wheelchair Ramp

1. Must be consistent with all applicable regulations and codes.
2. Prepare subgrade prior to installation per manufacturers recommendations.
3. Install 50-inches of compacted 1 ¼-inch stone (MassDOT M2.01.3) in an excavation matching the dimensions of the ramp and components to within 4-inches of surface
4. Install a 4-inch concrete slab above compacted sub-base.
5. Allow at least 1-week for concrete to cure.
6. Place ramp and components on cured slab.
7. Final installation shall have smooth transitions between all changes in slope with no lips or other changes in level.
8. Railings shall be installed per manufacturers recommendations
9. Final installation shall meet the requirements of all applicable codes and regulations.

C. Stairs

1. Must be consistent with all applicable regulations and codes.
2. Prepare subgrade prior to installation per manufacturers recommendations.
3. Install 50-inches of compacted 1 ¼-inch gravel (MassDOT M2.01.3) in an excavation matching the dimensions of the stairs to within 4-inches of surface
4. Install a 4-inch concrete slab above compacted sub-base.
5. Allow at least 1-week for concrete to cure.
6. Place ramp and components on cured slab.
7. Final installation shall have smooth transitions between all changes in slope with no lips or other changes in level.
8. Railings shall be installed per manufacturers recommendations
9. Final installation shall meet the requirements of all applicable codes and regulations.

END OF SECTION 323113
PART 1 GENERAL

The Contractor shall perform all necessary and required work as indicated below. Such work shall include but not limited to the installation of a new Synthetic Turf System. The Contractor shall fine grade existing material prior to installation of new Synthetic Turf System. Contractor shall also supply any new material needed for this task.

The Contractor shall approve the final grading and material prior to installation of new field. The Contractor shall then install new field on final graded material. Permanent lines shall be included for the field as part of Optional Task 325200A.

1.1 RELATED SECTIONS

A. Drawings and general provisions of the Contract Documents, including General and Supplementary Conditions, apply to this section.

1.2 SCOPE OF WORK

Furnish all labor, materials, tools, and equipment necessary to install, in place, a typical Synthetic Turf System as indicated on the drawings and as specified herein, including delivery of all materials to the worksite. The installation of all new materials shall be performed in strict accordance with the specification, manufacturer’s written installation instructions, and in accordance with all approved shop drawings. A Synthetic Turf System includes the athletic field surface as specified herein.

This Scope of Work also includes installation of fencing, gates, stairs and ramps as identified in the drawings.

1.3 SUBMITTALS

A. As part of the bid response, the Contractor shall submit the following:

1. Product Manufacturer Background and Experience: Describe the history and experience of the product manufacturer with this specific product including years of experience and a count and listing of North American and worldwide synthetic turf field installations. The list shall include field locations, client, client contact names, address, telephone, material installed, date of installation, and general contractor (if any).

2. Contractor Background and Experience: Describe the history and experience of the product installer with this specific product including years of experience and a count and listing of field installations. The list shall include field locations, client, client contact names, address, telephone, material installed, date of installation, and general contractor (if any). If the installer is not the manufacturer or vendor of the product, describe the experience the installer has with this specific product.

3. Product Vendor Background and Experience: Describe your firm’s history. Include information identifying the firm’s annual volume and the firm’s stability in the marketplace. Also include the firm’s record relating to installation schedules and performance. Provide additional information regarding local representation, and post-installation support.
4. Product data on the specific type of product to be installed, including Independent Laboratory Test Results on ASTM tests as follows for Synthetic Turf carpet:
   
   A. Specific Gravity and Density of Plastics by Displacement, ASTM D792
   
   B. Tuft Bind without Infill, ASTM D1335
   
   C. Total Product Weight without Infill, ASTM D5848
   
   D. Average Pile Yarn Weight, ASTM D5848
   
   E. Average Tuft Height, ASTM D5823
   
   F. Grab Tear Strength, ASTM D5034
   
   G. Breaking Strength of Textile Fabrics (Length) – Glued or Sewn Seam Turf Sample, ASTM D5034
   
   H. Pile Height, Face Width & Total Fabric Weight, ASTM D5848
   
   I. Impact Attenuation, GMax, ASTM F355/F1936
   
   J. Coefficient of Friction, ASTM F1551
   
   K. Water Permeability with Infill, ASTM D4491
   
   L. Abrasiveness, ASTM F1015
   
   M. Primary Backing Weight, ASTM D5848
   
   N. Secondary Backing Weight, ASTM D5848
   
   O. Machine Gauge, ASTM D5793
   
   P. Yarn Dernier, ASTM D1577
   
   Q. Fiber Thickness, ASTM D5034
   
   R. Average Fiber Break Strength and Elongation, ASTM D2256
   
   S. Total Lead Content ASTM F2765-09

5. Certification that the fiber and infill contains 50 ppm or less of lead from the fiber supplier, the infill supplier and the turf vendor.

6. Sample Warranty

7. Field layout and striping plans

8. Typical details of installation of Synthetic Turf System construction, including but not limited to turf edge details, cross sections, final installed thickness of the Synthetic Turf System and base planarity acceptance tolerance, especially any details that may deviate from plans and specifications.

9. Two samples of Synthetic Turf, a minimum of 12 x 12 inches in size, illustrating details of the finished product
10. The overall base design, vertical drainage requirements, and the gradations of the aggregate required by the Synthetic Turf Manufacturer.

11. A letter and specifications sheet certifying that the products of this specification Section meet or exceed specified requirements

B. Prior to the beginning of installation, the Contractor shall provide written verification that the base has satisfactory planarity for the product to be installed.

C. Prior to Final Acceptance, the Contractor shall verify payment to sub-contractors and suppliers and submit to the Owner three (3) copies of Executed Warranty Documents and Maintenance Manuals, which will include necessary instructions for the proper care and preventative maintenance of the Synthetic Turf System, including painting and striping (if applicable).

D. Shop drawings indicating:

1. Installation details, edge detail, details related to fences, gates, stairs, wheelchair ramp, other inserts, and covers, etc., as required by contract.
2. Roll/Seaming Layout.
4. Sewing/Adhesives technical specification
5. Sieve Analysis of infill with a certification that the drainage rates comply with the Synthetic Turf Manufacturer’s requirements
6. Sample of Infill from actual source supplier
7. Concrete Curb Edging detail
8. Safety Data Sheet (SDS) for infill, turf backing system, and glue (if applicable)

1.4 WARRANTY

A. The Synthetic Turf Manufacturer and Foam Sub-Base Manufacturer shall provide a written Warranty to the Owner that specifies the conditions of the Warranty. The Warranty shall at a minimum cover defects in materials and workmanship of the Synthetic Turf for a minimum period of 8 years from the date of Substantial Completion (i.e. the stage in the progress of the Work when the Work is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use). The Synthetic Turf Manufacturer must verify that their on-site Representative has inspected the installation and that the work conforms to the Synthetic Turf Manufacturer’s requirements.

B. The Synthetic Turf Manufacturer and Foam Sub-Base Manufacturer shall provide a Warranty to the Owner that covers defects in materials and workmanship of the Synthetic Turf for a period of 8 years from the date of Substantial Completion. The Synthetic Turf Manufacturer shall include coverage for damage caused from ultraviolet (UV) degradation or defects in workmanship and materials in the manufacturing or installation of the Synthetic Turf. All Synthetic Turf warranties shall include repair or replacement of the affected areas and include all necessary materials, labor, transportation costs, etc. to complete the required repairs.

C. The Synthetic Turf System and Foam Sub-Base shall drain vertically a minimum of 14 inches per hour without prolonged accumulation of surface water. If the Synthetic Turf System does not drain in accordance with this Specification, then punching the carpet backing or any method creating additional holes in the backing other than the designed drainage holes will not be permitted. The removal and replacement of the infill will be permitted given there is not damage to the fibers in the process.
1.5 QUALITY ASSURANCE

A. Contractor’s Experience:

1. The Contractor shall have the experience of at least thirty (30) acceptable installations of full-sized infilled synthetic turf football or soccer fields globally within the past five (5) years of tufted, polyethylene, grass-like fabrics that are filled with either all rubber or a mixture of a typical infill. Submit a list of (10) applicable installations with the bid.

2. The Contractor shall have a representative of the Synthetic Turf Manufacturer perform a quality assurance check at completion in the presence of the Owner or its representative and provide the Owner written documentation of the results of the inspection and any impacts that the installation may have on any Manufacturer Warrantees. Any deficiencies noted by the quality assurance check will be repaired by the Contractor to the satisfaction of the Synthetic Turf Manufacturer at no cost to the Owner.

3. The designated supervisory personnel on the project must be certified in writing by the Synthetic Turf Manufacturer as competent in the installation of this material, including sewing seams and proper installation of the infill mixture. He/she shall have a minimum of eighteen months experience in supervising similar sized projects; and have installed Infill Synthetic Turf System products a minimum of twenty-five (20) installations.

4. The Contractor may use Subcontractors/Installers who employ only qualified and experienced Supervisors and Technicians skilled in the installation of the Synthetic Turf

5. The Contract Manager shall be a current and qualified employee of the Contractor; be skilled in the performance of the assigned duties; and have a minimum of three years of experience managing or supervising similar sized projects.

6. The Contractor shall not replace the named individuals for the duration of the contract unless the substitute individuals have equivalent qualifications as approved by the Owner.

7. All on-site workers are required to complete and sign a Criminal Record Information (CORI) Check request and will be subject to approval by the Owner.

B. The system shall be tufted on an approximately 5/8” gauge at a stitch rate of approximately 10 stitches per 3 inches. The pile height shall be approximately 1.75 inches.

C. New soccer goals (if any) and/or infield dirt mix backfill within the contiguous synthetic turf limits or immediately adjacent thereto are not to be installed by the Owner or Prime Contractor until after the new Synthetic Turf System has been completed. Damage to the Synthetic Turf System during the installation of such materials is not the responsibility of the Contractor.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in sealed unopened containers with manufacturer’s labels intact.

B. Store materials in protected and secure area at a temperature not to exceed maximum and minimum temperatures as recommended by manufacturer. Protect products from UV degradation.

1.7 SCHEDULE
A. The Contractor shall complete all work on the Synthetic Turf System in accordance with the project schedule negotiated with the Owner at the initiation of the Work, and in compliance with manufacturing procurement times as mutually agreed upon and identified in final contract negotiations.

B. The Contractor will require unencumbered use of an area within thirty (30) feet of the synthetic turf area(s) being installed in order to complete his work. The Contractor shall also be afforded unencumbered access through the construction site to reach the synthetic Turf Field Area being installed.

1.8 SURFACE AREA

A. The Contractor is to verify all measurements.

1.9 UTILITIES

A. The Contractor will supply necessary toilet, wash up facilities, adequate lighting, and electricity for installation.

2.0 PRODUCTS

2.1 MATERIALS

A. Approved product: Greenfields SlideMax XP 50 or approved equivalent.

B. Approved product: Schmitz ProPlay-Sport 20(D) or approved equivalent.

C. If the bidder proposes an equivalent, the bidder is to demonstrate equivalency through the submission of documentation. Mere submission of company or product literature is unacceptable and can be used as a basis for rejection of the claim of equivalence and the bid.

D. The synthetic infill shall be filled with Envirofill manufactured by USGreentech. Application quantities shall be consistent with manufacturers recommendations.

E. The infill shall not contain liberated fiber in an amount that exceeds 0.01% of the total weight of infill, or 0.6 lbs. per ton. The infill shall be free of all dust.

F. The infill shall be new, clean material and shall be tested for compliance.

G. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified should be able to withstand full climatic exposure in all climates, be resistant to insect infestation, rot, fungus, mildew, UV light and heat degradation, and shall have the basic characteristics of flow-through drainage, allowing free movement of surface runoff through the synthetic turf fabric where such water may flow to the existing base and into the field drainage system.

H. The finished playing surface shall appear as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use. The system shall be suitable for football, field hockey, soccer, lacrosse, baseball, softball, physical education (PE) classes, intramural, and recreational use.

I. The polyethylene multifilament pile yarn shall be a proven athletic caliber yarn designed specifically for outdoor use and stabilized to resist the effect of UV degradation, heat, foot traffic, water, and airborne pollutants.
J. All backing layers and coatings shall be firmly bonded together. Coating materials must be completely cured and bonded to the other backing layers. Synthetic turf panels or rolls that do not meet this requirement will be rejected.

K. The system including the synthetic turf, infill materials shall drain vertically a minimum of 14 inches precipitation per hour without visible surface ponding.

L. The surface shall be delivered in 15-foot-wide rolls. The rolls shall be of sufficient length to go from sideline to sideline of the soccer field. Head seams between the sidelines of the field will not be acceptable.

M. Depth of infill material at completion of placement shall be at least consistent with manufacturers’ specifications and as required to reach the required initial and subsequent Gmax ratings. Samples of infill material shall be submitted to the Owner for approval prior to installation.

N. Surplus Materials: The Contractor shall provide the Owner, as a part of the Contract, the following surplus materials transported to storage location selected by the Owner:

1. Synthetic Turf Fabric (green) – 500 square feet with at least one piece fifteen (15) feet by thirty (30) feet.
2. Foam Sub-Base – 500 square feet.
3. Infill Material – as required to infill 500 square feet. This material shall not be used by the Synthetic Turf Subcontractor to maintain depth and GMax values during the warranty period. The Contractor must provide material, matching the existing infill material, during the warranty period at no cost to the Owner.

2.2 EQUIPMENT

A. No additional equipment is anticipated to be furnished as part of this contract. The Turf Vendor will be required to review the existing maintenance equipment and allow the Owner’s continued use, without affect to the warranty.

3.0 EXECUTION

3.1 GENERAL

A. The installation of the Synthetic Turf System shall be performed in full compliance with approved Shop Drawings.

B. All designs, markings, layouts, and materials shall conform to all applicable and current FIFA, NCAA or National State High School Federation rules and other standards that may apply to this type of Synthetic Turf installation.

3.2 EXAMINATION

A. The Synthetic Turf carpet shall be installed in accordance with Manufacturer’s instructions. The Contractor shall adhere to the installation procedures outlined under this section. Any variance from these requirements must be accepted in writing, by the Owner, verifying that the changes do not in any way affect the warranty. Infill materials shall be approved by the Manufacturer and installed in accordance with the Manufacturer’s standard procedures.

B. Prior to the beginning of installation, the Contractor shall inspect the subbase and accept in writing the subbase surface planarity and compaction. The Contractor shall have the field dimensions and locations for markings measured by a licensed Land Surveyor registered in the State in order to verify conformity to the specifications and applicable standards. A record of the finished field as-built measurements shall be made and submitted to the Owner.
C. The carpet rolls shall be installed directly over 1-inch of choker sand underlain by geotextile which shall be installed over the properly prepared aggregate base. Extreme care shall be taken to avoid disturbing the aggregate base, both in regard to compaction and planarity. The Contractor shall ensure that a 2 - 5 ton static roller is on-site and available to repair and properly compact any disturbed areas of the aggregate base.

D. The full width rolls shall be laid out across the field. The Synthetic Turf shall be of sufficient length to permit full cross-field installation from sideline to sideline. No head or cross seams shall be allowed in the main playing area between the sidelines. Utilizing standard state-of-the-art sewing procedures, each roll shall be attached to the next. When all of the rolls of the playing surface have been installed, the sideline areas shall be installed at right angles to the playing field.

E. The carpet shall be affixed to the continuous concrete curb installed around the Synthetic Turf System by the Contractor using the Synthetic Turf Manufacturer’s recommended adhesive and or mechanical fastening. All primary seams must be sewn. Seams shall be flat, tight, and permanent with no separation or fraying.

F. The Contractor shall verify that all subbase, drainage, and leveling are completed prior to installation. The subbase shall be drag-boxed prior to Synthetic Turf Manufacturer’s approval of the subbase.

G. The surface must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.

H. Prior to installation, and immediately upon delivery of Synthetic Turf System and Foam Sub-Base materials to the project site, the Contractor shall inspect material as follows:

1. For damaged or defective items;
2. Measure turf pile height and thickness of each roll;
3. Measure backing perforation diameter and spacing;
4. Reject damaged materials and all materials out of tolerance with this specification.

I. After installation, inspect project area for acceptable seaming, adhesive bonding, uniformity of color of turf, bubble-free surface smoothness as laid, and edge details. Remove and/or repair deficient workmanship prior to requesting the Owner’s inspection pursuant to completion and acceptance of the work.

### 3.3 OWNER’S TESTING

A. Owner may have samples of the turf and foam sub-base submitted and tested for verification of conformance to specifications. Synthetic Turf System acceptance is subject to the results of these tests.

B. Any material so tested and found not conforming to specification will be rejected and replaced with material conforming to the specification at Contractor’s expense. Re-submittal shall be required.

### 3.4 SYNTHETIC TURF FABRIC INSTALLATION

A. Compaction of the perimeter around the playing field is essential to maintain the integrity of the perimeter and the soil surrounding the voided area.

B. Vehicles shall not be allowed to park or staged upon the completed aggregate surface either prior to or during installation of the synthetic turf.

C. Equipment utilized during construction including compressors, generators, etc. shall be in complete working order, with exhaust systems oriented vertically and away from the synthetic turf surface. At any location where
equipment is parked and/or staged on the turf surface during installation, adequate protection of the finish turf surface will be required including, but not limited to heat resistant panels to ensure 100% viability of the finish turf surface and fibers. Should a portion of the turf be damaged as a result of installation techniques, the entire turf panel may be subject to rejection and replacement at the direction of the Owner.

D. The Foam Sub-Base shall be installed in accordance with all the Manufacturer’s instructions.

E. The Synthetic Turf carpet shall be installed in accordance with Manufacturer’s instructions. The Contractor shall adhere to the installation procedures outlined under this section. Any variance from these requirements must be accepted in writing, by the Owner, verifying that the changes do not in any way affect the warranty. Infill materials shall be approved by the Manufacturer and installed in accordance with the Manufacturer’s standard procedures.

F. The full width rolls shall be laid out across the field. The Synthetic Turf shall be of sufficient length to permit full cross-field installation from sideline to sideline. No head or cross seams shall be allowed in the main playing area between the sidelines. Utilizing standard state-of-the-art sewing procedures, each roll shall be attached to the next. When all the rolls of the playing surface have been installed, the sideline areas shall be installed at right angles to the playing field.

G. The carpet shall be affixed to the continuous concrete curb installed around the Synthetic Turf System by the Contractor using the Synthetic Turf Manufacturer’s recommended adhesive and or mechanical fastening.

H. All primary seams must be sewn. Seams shall be flat, tight, and permanent with no separation or fraying.

I. The infill materials shall be installed in accordance with the Synthetic Turf Manufacturer’s recommendations. The infill materials shall be installed to a minimum depth of 1 1/2 inches on a minimum pile height of 1¾ inches of Synthetic Turf fibers.

J. The infill materials shall be installed to fill the voids between the fibers and allow the fibers to remain vertical and non-directional.

### 3.5 INFILL INSTALLATION

A. Prior to application of infill, the entire turf area shall be vacuumed clean from of all debris, loose fiber or other construction materials.

B. Infill material shall be applied in a dried condition when the turf is dry. It shall be applied in uniform layers effectively dragged to distribute the material uniformly to the backing of the turf.

C. The Synthetic Turf Installer shall not infringe upon any current or pending patents held by other synthetic turf manufacturers or installers with the installation of the infill materials.

D. For infill systems, the infill materials will be installed with a minimum of 8 applications.

E. The infill installation shall not result in fiber material trapped below the surface of the infill material. If fiber is trapped below the surface, a portion or all of the infill material must be removed and reinstalled.

F. The infill material shall be installed at a uniform depth across the entire field area.

G. The brushing of the infill material shall provide fiber fibrillation resulting in a natural surface appearance.

H. The infill materials shall be water settled to provide accelerated consolidation of the infill material prior to use by the Owner. The Contractor shall utilize portable sprinkler heads to evenly apply a minimum of 1 inch of water over the entire field area for water settlement. Upon completion of the initial water settlement, the surface will be inspected the Owner or footing stability and infill consolidation. The Contractor shall provide any additional water
settling as required by the Owner to achieve the desired level of infill stability and consolidation.

3.6 CLEANING

A. Remove all excess materials of all types, equipment, debris, etc., from the site immediately after completion of the work. Remove all stains and other blemishes from all finished surfaces. Leave work in clean, new appearing condition, ready for use by Owner.

B. The Contractor shall inspect the entire field area to identify any construction materials or tools left on the field. All such materials shall be removed prior to Owner occupancy of the field.

3.7 PROTECTION

A. Adequate protection of materials and work from damage will be the responsibility of the installer during installation and until acceptance of their work. Contractor will be responsible for protection after the acceptance of the work until final acceptance of all contract work by the Owner. All material damaged prior to acceptance by the Owner shall be replaced at no cost to the Owner.

3.8 DELIVERABLES

A. Prior to Final Acceptance, the Contractor shall submit to the Owner:

1. Three (3) copies of Maintenance Manuals, which shall include all necessary instructions for the proper care and preventive maintenance of the Synthetic Turf System, including painting and markings.

2. Project Record Documents: Recording actual locations of seams, drains or other pertinent information including three (3) copies of the certified “as-built” drawings for all work performed on this project.

3. Warranty: Manufacturer Warranty ensuring that applicable documented forms have been completed in Owner’s name and registered with the Manufacturer. The Manufacturer shall have a representative on-site to certify the installation and Warranty compliance.

4. Necessary testing data to the Owner that the finished field meets the required shock attenuation (GMax), as per ASTM F355/F1936 at turf installation. GMax to e <= 120 at installation and no greater than 170 for the life of the warranty.

END OF SECTION 325200
SECTION 325200A SYNTHETIC FIELD MARKINGS (OPTIONAL)

PART 1 GENERAL

The Contractor shall perform all necessary and required work as indicated below. Such work shall include the painting of the Synthetic Turf Carpet. Permanent lines shall be included for the field according to plans. Contractor shall also supply any new material needed for this task.

1.2 RELATED SECTIONS

A. Drawings and general provisions of the Contract Documents, including General and Supplementary Conditions, apply to this section.

1.2 SCOPE OF WORK

Furnish all labor, materials, tools, and equipment necessary paint the Synthetic Turf Carpet as indicated on the drawings and as specified herein, including delivery of all materials to the worksite. The installation of all new materials shall be performed in strict accordance with the specification, manufacturer’s written installation instructions, and in accordance with all approved shop drawings.

1.3 SUBMITTALS

A. As part of the bid response, the Contractor shall submit the following:
   1. Sample Warranty
   2. Field layout and striping plans
   3. A letter and specifications sheet certifying that the products of this specification Section meet or exceed specified requirements

B. Prior to the beginning of installation, the Contractor shall provide written verification that the Synthetic Turf Carpet is ready for painting.

C. Shop drawings indicating:
   1. Striping plan showing any field lines, markings and boundaries, and field logos per project drawings.
   2. A Field Layout with tufted/inlaid lines
   3. Safety Data Sheet (SDS) for paint and related materials (if applicable)

1.4 WARRANTY

A. The Warranty shall at a minimum cover defects in materials and workmanship of the painting of the Synthetic Turf Carpet for a minimum period of 6 months from the date of Substantial Completion (i.e. the stage in the progress of the Work when the Work is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use).

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in sealed unopened containers with manufacturer’s labels intact.

B. Store materials in protected and secure area at a temperature not to exceed maximum and minimum temperatures as recommended by manufacturer. Protect products from UV degradation.
1.7 SCHEDULE
   A. The Contractor shall complete all work on the Synthetic Turf Carpet in accordance with the project schedule negotiated with the Owner at the initiation of the Work, and in compliance with manufacturing procurement times as mutually agreed upon and identified in final contract negotiations.

1.8 SURFACE AREA
   A. The Contractor is to verify all measurements.

2.0 PRODUCTS

2.1 MATERIALS
   A. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified should be able to withstand full climatic exposure in all climates, be resistant to insect infestation, rot, fungus, mildew, UV light and heat degradation, and shall have the basic characteristics of flow-through drainage, allowing free movement of surface runoff through the synthetic turf fabric where such water may flow to the existing base and into the field drainage system.
   B. If the bidder proposes an equivalent, the bidder is to demonstrate equivalency through the submission of documentation. Mere submission of company or product literature is unacceptable and can be used as a basis for rejection of the claim of equivalence and the bid.

3.0 EXECUTION

3.1 GENERAL
   A. The painting of the Synthetic Turf Carpet shall be performed in full compliance with approved Shop Drawings.

3.2 EXAMINATION
   A. The Synthetic Turf Carpet shall be painted in accordance with Manufacturer’s instructions. The Contractor shall adhere to the installation procedures outlined under this section. Any variance from these requirements must be accepted in writing, by the Owner, verifying that the changes do not in any way affect the warranty.

3.3 OWNER’S TESTING
   A. Owner may have samples of the paint submitted and tested for verification of conformance to specifications. Synthetic Turf Carpet paint acceptance is subject to the results of these tests.
   B. Any material so tested and found not conforming to specification will be rejected and replaced with material conforming to the specification at Contractor’s expense. Re-submittal shall be required.

3.4 FIELD MARKINGS
   A. Inlaid and tufted lines and markings shall be per the drawings. Layouts shall be accurately surveyed and marked prior to installation.
   B. To the greatest extent practical, lines and markings shall be installed without compromising the primary backing.
   C. Painted lines and markings shall be crisp and distinct, with no weeping or overspray. Application of paint shall be exactly aligned with required dimensions and a guide wire/string line shall be used to produce straight lines.
D. Contractor shall reapply paint if markings exhibit any appreciable fading or degradation within three months of initial application.

3.5 CLEANING

A. Remove all excess materials of all types, equipment, debris, etc., from the site immediately after completion of the work. Remove all stains and other blemishes from all finished surfaces. Leave work in clean, new appearing condition, ready for use by Owner.

B. The Contractor shall inspect the entire field area to identify any construction materials or tools left on the field. All such materials shall be removed prior to Owner occupancy of the field.

3.6 PROTECTION

A. Adequate protection of materials and work from damage will be the responsibility of the installer during installation and until acceptance of their work. Contractor will be responsible for protection after the acceptance of the work until final acceptance of all contract work by the Owner. All material damaged prior to acceptance by the Owner shall be replaced at no cost to the Owner.

3.7 DELIVERABLES

A. Prior to Final Acceptance, the Contractor shall submit to the Owner:

1. Three (3) copies of Maintenance Manuals, which shall include all necessary instructions for the proper care and preventive maintenance of the painting and markings.

2. Project Record Documents: Recording pertinent information including three (3) copies of the certified “as-built” drawings for all work performed on this project.

3. Warranty: Manufacturer Warranty ensuring that applicable documented forms have been completed in Owner’s name and registered with the Manufacturer. The Manufacturer shall have a representative on-site to certify the installation and Warranty compliance.

END OF SECTION 32520A
DIVISION 33 – UTILITIES
SECTION 334600 SUBDRAINAGE

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes requirements for construction of underground perimeter drains, portions of a Clean Utility Corridor and related work. The Contract Drawings and specifications for this task includes obtaining and installing piping material and related materials, material submittals, piping installation methods, pipe bedding and backfilling.

B. The existing monitoring well identified in Contract Document shall be protected from damage during construction and be completed with a flush mounted watertight protective road box integrated into the concrete cap overlying the Clean Utility Corridor at the completion of the Work.

C. Provide protective matting for a portion of the concrete cover overlying the Clean Utility Corridor as specified in the Contract Documents.

1.2 WORK INCLUDED

A. Provide all labor, materials, necessary equipment and services to complete work as indicated on the drawings, as specified herein or both.

B. Related Work:

1. Section 312216: Fine Grading
2. Section 334900: Storm Drainage Structures

1.3 REFERENCES

A. American Association of State Highway and Transportation Officials (AASHTO):


B. ASTM International (ASTM):

3. D1577, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort

C. Synthetic Turf Council

1. Guidelines for Synthetic Turf Base Systems


1. Section M4- Cement and Cement Materials
1.2 SUBMITTALS

A. Product Data:
   1. Submit data on pipe drainage products, pipe accessories and jointing material for Owner’s review and approval.
   2. Corrugated polyethylene pipe and fittings (including slot perforation pattern).
   3. Protective Matting: Aer-Flo 3668-G Cross Over Zone Track Protector or approved equivalent.
   4. Flush mounted well road box
   5. PVC Pipe and fittings
   6. Clean-out sections and lids.

B. As-Built data including record location of pipe runs, connections, cleanouts and principal invert elevations.

1.3 QUALITY ASSURANCE:

A. Perform Work in accordance with Federal, state, and local regulatory requirements.

1.4 DELIVERY, STORAGE AND HANDLING

A. Keep pipe shaded from direct sunlight prior to installation in trench.

PART 2 - PRODUCTS

2.1 PERFORATED UNDERDRAIN PIPING

A. Corrugated Plastic Pipe (CPP), Fittings, and Joints Underdrain piping and fittings shall be smooth interior, Type S corrugated polyethylene (PE) tubing conforming to AASHTO M252. PE compound shall conform with the requirements of cell class 32440C as defined in ASTM D3350, except that the carbon black content shall not exceed 5%. Fittings and couplings shall conform to AASHTO M252.

B. Provide pipe perforations with a minimum water inlet area of 1,060 mm squared per linear meter; 0.5 square inch per linear foot and as specified below.

C. Cleanly cut circumferential slots so as not to restrict the inflow of water and uniformly spaced along the length and circumference of the pipe. Provide pipe with slots not exceeding 3.2 mm 1/8 inch nor less than 0.8 mm 1/32 inch in width. Provide pipe with individual slot lengths not exceeding and 63.5 mm 2-1/2 inches on 250 mm 10-inch diameter pipe. Symmetrically space rows of slots so that they are fully contained in 2 quadrants of the pipe. Center slots in the valleys of the corrugations of profile wall pipe.

2.2 GEOTEXTILE

A. Geotextile fabric shall be Mirafi 140N or equivalent.

2.3 GRAVEL BASE/GRAVEL SURFACE/CRUSHED STONE

A. Unless otherwise specified in the Drawings, fill material identified in the drawings shall comply with the Standard Specifications for Highways and Bridges by the Massachusetts Highway Department Metric Edition dated 1995 as noted on the drawings and as follows:

   1. Crushed stone and ¾” Crushed Stone – M2.01.4
   2. 1” Minus (“No. 57”) - M.2.04.1
   3. 1⅜” Minus – M2.01.3
   4. Riprap – M2.02.3
2.4 CAST IN PLACE CONCRETE WALKWAY

A. Concrete mix to be in accordance with Massachusetts Highway Department Standard Specifications - Section M4 - Cement and Cement Materials.

B. Additional concrete parameters shall be as follows:
   1. Cement type: Type III
   2. Air content: 5.5% ± 1.0% (at point of placement)
   3. Use of fly ash, pozzolan or ground granulated blast furnace slag in the concrete mix is prohibited.

C. Provide a curing compound as specified in Massachusetts Highway Department Standard Specification 476.71.

D. Concrete sealant shall be sika Ferrogard 903 or approved equivalent

2.5 PROTECTIVE MATTING

A. Constructed of polypropylene geotextile fabric with vinyl edging and steel chain around perimeter for ballast.

B. Sections shall join together with hook and loop strips.

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate underdrain placement with Site construction activities and the outfall through riprap.

3.2 INSTALLATION

A. Excavation

Excavate for placement of drainage pipe in accordance with Contract Drawings in location and to depths shown. Provide clearance around sidewalls of structure for construction operations.

   1. If groundwater is encountered, prevent accumulation of water in excavations.
   2. Soil/Stone beneath Underdrains shall be compacted to a density of 95% in accordance with ASTM D1557.

B. Placement

   1. The slope of underdrains shall be at 0.5% with no variances in excess of ¼ inch per 10 feet of pipe length.
   2. Lateral Underdrains (north and south side of Turf Field Area) shall be installed in the lower drainage stone layer as depicted in the Contract Documents. Stone shall cover the Underdrain to a depth of 6 inches or more.
   3. End Underdrain (west side of Turf Field Area) shall be installed within a special trench as shown on the Contract Documents. Stone shall surround the End Underdrain with Geotextile Fabric surrounding the stone envelope.
   4. Grade trenches to be lined with geotextile to obtain smooth side and bottom surfaces so that the geotextile will not bridge cavities in the soil or be damaged by projecting rock. Lay the geotextile flat but not stretched on the soil and secure it with anchor pins in accordance with manufacturer's instructions. Overlap at least 150 to 300 mm 6 to 12 inches, and secure with anchor pins along the overlaps.
5. Install pipe in accordance with the manufacturer’s recommendations. Thoroughly examine each section of pipe before being laid; do not use defective or damaged pipe. Do not lay pipe when the trench conditions or weather is unsuitable for such work.

Remove water from trenches by sump pumping or other approved methods.

Lay the pipe to the grades and alignment as indicated. Bed the pipe to the established grade line. Center perforations on the bottom of the pipe. Lay bell-and-spigot type with the bell ends upstream.

6. Install cleanout riser pipes with frames and covers at the locations indicated. Construct risers of non-perforated plastic pipe. Join riser pipes to the subdrain system as indicated on the Drawings.

7. Approval of all in-place pipes by the Owner’s Representative is required prior to backfilling.

C. Backfill

After perforated pipe for subdrains has been laid, inspected, and approved, backfill material around and over the pipe as indicated to the depth indicated. Place the drainage layer in layers not to exceed 200 mm 8 inches thick. Thoroughly compact each layer using mechanical tampers or ram to specific area requirements.

D. Cast in Place Concrete – Clean Utility Corridor Cap

1. The concrete slab thickness shall be 4-inches.

2. The existing Monitoring well shown in the Contract Documents shall be protected during installation of the concrete and shall be completed with a water tight protective road box mounted flush with the surface of the concrete.

3. Mix concrete in accordance with ASTM C94, Alternative No. 2. Use admixtures only when approved by the engineer. Cast-in-place concrete shall be normal weight air entrained concrete and shall have a minimum compressive strength of 4,000 psi at 28 days. The maximum slump shall be 3 ± 1 inches. Air entrainment shall be 5.5% ± 1%.

4. Concrete shall be batched, mixed, transported and handled in accordance with ASTM C94.

5. Concrete shall be placed in accordance with ACI 301 and Massachusetts Highway Department Standard Specification - Section 476 Cement Concrete Pavement.

6. Concrete shall not be placed on frozen sub-grade, sub-base or gravel base.

7. Reinforcement shall be positioned on suitable chairs, accurately placed and appropriately secured prior to concrete placement. At expansion, contraction and construction joints, place the reinforcement. Minimum reinforcement cover from the bottom, ends and sides of slabs shall be 2 inches.

8. Immediately after spreading concrete, consolidate concrete with internal type vibrating equipment along the boundaries of all slabs regardless of slab thickness. Limit duration of vibration to that necessary to produce consolidation of concrete. Excessive vibration shall not be permitted.

9. Construction joints shall be cast with shear key.

10. Transverse contraction joints shall be placed every 15 feet unless noted otherwise. Longitudinal contraction joint shall be placed along the centerline of the travelway unless noted otherwise.

11. Strike off concrete between forms using a form-riding paver-finisher machine or vibrating screed. The
paver-finisher shall be operated to produce a thoroughly consolidated slab throughout, true to line and grade within specified tolerances. Multiple passes of the paver-finisher shall not be permitted. No water, other than true sprays (mist) shall be applied to the concrete surface during paving and finishing.

12. Immediately after placement, protect concrete from premature drying, precipitation, excessive hot or cold temperatures and mechanical injury, marks or stains by the methods proposed in the contractor’s work plan.

13. After finishing and texturing operations have been completed and immediately after free water has evaporated, the surface of the pavement slab and any exposed edges shall be uniformly coated with acceptable curing compound as specified in Massachusetts Highway Department Standard Specifications - Section 476.67 Finishing Concrete.

14. Concrete shall be cured for 7 days after placement. Maintain temperature of air next to concrete above 40° f for full curing period.

15. The specified grade shall be set and compacted prior to the setting of forms. Verify compacted sub-base, sub-grade and gravel base have uniformly attained 95% in-place density in accordance with ASTM D698.

16. Verify gradients and elevations of sub-grade to ensure that the required pavement thickness shall be obtained in all locations.

17. All concrete mixes shall be proportioned so that no more than 635 pounds of cement are used per cubic yard of concrete and no more than 5.0 gallons of water are used per bag of cement (0.45 maximum w/c ratio).

18. The sequence of operations shall be the strike-off, consolidation, transverse screeding, longitudinal floating, straight edging, texturing and edging of form joints. The machine method shall be employed, except that odd widths or shapes of slabs may be finished by hand method.

19. Keep concrete surface free from vehicular traffic and other sources of abrasion for not less than 30 days after curing period.

20. Apply concrete sealant in accordance with the manufacturer’s recommendations.

21. Reinforcing steel shall be ASTM A615 gr. 60 (60 ksi yield) and shall be epoxy coated in accordance with ASTM A775. All field repairs of the epoxy coating shall conform to the requirements of ASTM A3963.

22. All lap splices of #4 epoxy coated reinforcement shall be a minimum of 24 inches unless noted otherwise.

23. The pavement shall conform to the lines, grades, thickness and typical cross section as shown in the contract documents.

24. Joint sealant shall be AASHO M 173, hot poured-type rubber compound

25. Vertical and/or horizontal construction joints will not be permitted unless noted otherwise.

26. Cure floor surfaces in accordance with the latest edition of ACI 308.

27. Joints shall be sealed in accordance with manufacturer’s directions as soon after the curing period as feasible and before the pavement is open to traffic, including construction equipment.

END OF SECTION 334600
SECTION 334600A CLEAN UTILITY CORRIDOR PIPING(OPTIONAL)

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes requirements for installing a utility conduit in an existing Clean Utility Corridor. The location of the Clean Utility Corridor has been excavated, backfilled with clean fill and a safety fence/warning layer has been installed. This work includes: installation of a 4-inch Sch. 40 PVC pipe; installing and connecting 4 handholes to this pipe; and installing sweep elbows at either end of the pipe as identified in the Contract Documents.

1.2 WORK INCLUDED

A. Provide all labor, materials, necessary equipment and services to complete work as indicated on the drawings, as specified herein or both.

B. Related Work:
   1. Section 312216: Fine Grading

1.3 REFERENCES

A. ASTM International (ASTM):
   3. D1577, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort

B. Synthetic Turf Council
   1. Guidelines for Synthetic Turf Base Systems

1.4 SUBMITTALS

A. Product Data: Submit data on pipe, elbows and jointing material for Owner’s review and approval.

B. PVC Pipe and fittings

C. Product Data: Handhole cut sheets and connection details

D. As-Built data including record location of pipe runs, connections, cleanouts and principal invert elevations.

1.5 QUALITY ASSURANCE:

A. Perform Work in accordance with Federal, state, and local regulatory requirements.
1.6 DELIVERY, STORAGE AND HANDLING

A. Keep pipe shaded from direct sunlight prior to installation in trench.

PART 2 - PRODUCTS

2.1 GEOTEXTILE

A. Geotextile fabric shall be Mirafi 140N or equivalent.

2.2 PVC PIPE

A. All pipe and fittings for use in the clean corridor shall be Schedule 40 PVC.

2.3 GRAVEL BASE/GRAVEL SURFACE/CRUSHED STONE

A. Unless otherwise specified in the Drawings, fill material identified in the drawings shall comply with the Standard Specifications for Highways and Bridges by the Massachusetts Highway Department Metric Edition dated 1995 as noted on the drawings and as follows:

1. Crushed stone and ¾” Crushed Stone – M2.01.4
2. 1” Minus (“No. 57”) - M.2.04.1
3. 1¼” Minus – M2.01.3
4. Riprap – M2.02.3

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate Clean Corridor installation with other site construction activities

3.2 INSTALLATION

A. Excavation

Excavate for placement of conduit in Clean Utility Corridor in accordance with Contract Drawings in location and to depths shown. Provide clearance around sidewalls of structure for construction operations.

1. If groundwater is encountered, prevent accumulation of water in excavations.
2. Soil/Stone beneath Underdrains shall be compacted to a density of 95% in accordance with ASTM D1557.

B. Placement

1. Install pipe in accordance with the manufacturer's recommendations. Thoroughly examine each section of pipe before being laid; do not use defective or damaged pipe. Do not lay pipe when the trench conditions or weather is unsuitable for such work.

Remove water from trenches by sump pumping or other approved methods. Lay the pipe to the grades and alignment as indicated. Bed the pipe to the established grade line.

2. Install handholes/pull boxes at the locations indicated in the Contract Drawings. Join utility pipe to handholes/pull boxes as indicated on the Contract Drawings.

3. Approval of all in-place pipes by the Owner’s Representative is required prior to backfilling.
C. Backfill

1. After pipe has been laid, inspected, and approved, backfill material around and over the pipe as indicated to the depth indicated. Place the drainage layer in layers not to exceed 200 mm 8 inches thick. Thoroughly compact each layer using mechanical tampers or ram to specific area requirements.

2. Complete backfilling of Clean Utility Corridor as indicated in the Contract Drawings including installation of Safety Fence/Warning Layer.

END OF SECTION 33460A
SECTION 334900 STORM DRAINAGE STRUCTURES

PART 1 - GENERAL

1.1 SUMMARY

A. This section provides specifications for the Storm Drainage Outlet Control structure installed to control discharge of collected stormwater to the adjacent wetland to the north of the site. The Outlet Structure will also discharge infiltrated surface water from the Underdrain Layers along the side of the Turf Field Area.

1.2 WORK INCLUDED

A. Provide all labor, materials, necessary equipment and services to install the outlet control structure as indicated on the drawings, as specified herein or both.

B. Related Work:

1. Section 312216: Fine Grading
2. Section 334600: Subdrainage

1.3 REFERENCES

A. ASTM International (ASTM):

1. C 478 - Standard Specification for Precast Reinforced Concrete Manhole Sections
7. C1433 - Standard Specification for Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers

1.4 SUBMITTALS

A. Product Data: Submit data for manufacturer, supplier, outlet control structure, inlet tops, grade adjustment rings, and fittings.

B. As-Built data including record location of pipe runs, connections, manhole rim, and principal invert elevations.

1.5 QUALITY ASSURANCE:

A. Source Quality Control:

1. Precast concrete supplier plant shall be registered and certified under either the Prestressed Concrete Institute (PCI) or the National Precast Concrete Association (NPCA) plant certification program.
1.6 DELIVERY, STORAGE AND HANDLING

A. Comply with precast concrete manufacturer’s instructions and ASTM C913 for unloading, storing and moving precast structures.

B. Store precast concrete structures to prevent damage to public or private property. Repair property damaged from materials storage.

PART 2 - PRODUCTS

2.1 PRECAST CONCRETE OUTLET CONTROL STRUCTURE

A. Materials and Construction: Conforming to requirements identified in Contract Drawings and as detailed in ASTM C478.

B. Pipe Openings as required by Contract Drawings

C. Precast Top Sections: Designs as required by Contract Drawings, of materials and construction as specified in Contract Drawings Manufactured in accordance with and conforming to ASTM C1433M.

D. 24-inch Frame and Grate Manhole Frame and Cover:
   1. Manufacturers: Neenah Foundry Company; R-1788-A; or equal.
   2. General: Gray iron castings conforming to ASTM A48, Class No. 35B, designed for AASHTO Highway Loading Class H-20. Provide castings of uniform quality, free from blowholes, porosity, hard spots, shrinkage distortion or other defects.
      a. Finish: Bearing surfaces machined to prevent rocking and rattling under traffic.
      b. Two pick holes shall be provided.

2.2 CRUSHED STONE

A. Unless otherwise specified in the Contract Drawings, fill material identified in the Contract Drawings shall comply with the Standard Specifications for Highways and Bridges by the Massachusetts Highway Department Metric Edition dated 1995 as noted on the Contract Drawings and as follows:

   1. Crushed stone and ¾” Crushed Stone – M2.01.4
   2. 1” Minus (“No. 57”) - M.2.04.1
   3. 1 ¼” Minus – M2.01.3
   4. Rip Rap – M2.02.3

2.3 OUTLET PIPE

A. Corrugated PE Pipe (non-perforated), 12 -inch diameter.

   1. Advanced Drainage Systems (ADS) N-12 Dual Wall or equal
   2. AASHTO M 294, Type S. For slow crack growth resistance, acceptance of resins shall be determined by using the notched constant ligament-stress (NCLS) test meeting the requirements of AASHTO M294.
2.2 Pipe Joints
A. Pipe joints shall be silt and watertight and shall conform to the requirements in AASHTO M 294. Water-tight joints shall be made using a PE coupling and rubber gaskets as recommended by the pipe manufacturer. Rubber gaskets shall conform to ASTM F477.

2.3 EROSION CONTROL RIPRAP
A. Provide non-erodible rock with a D50 of 6-inches in its greatest dimension and choked with sufficient small rocks to provide a dense mass with a minimum thickness of 18 inches and resting of Geotextile as shown on the Contract Drawings.

2.4 GEOMATERIALS
A. Geotextile Fabric
   1. Mirafi 140N or approved equal

PART 3 - EXECUTION
3.1 PREPARATION
A. Coordinate placement of inlet and outlet pipe required by other sections.
B. Inspect precast concrete structures immediately prior to placement in excavation to verify are internally clean and free from damage. Remove and replace damaged units.
C. Coordinate Storm Water Outlet Drainage Structure installation with earthwork and grading to construct the berm at the location of the Outfall as shown on the Contract Drawings.

3.2 INSTALLATION
A. Manhole:
   1. Construction shall be of reinforced concrete, complete with frames and covers or gratings. Pipe connections to concrete manholes and inlets shall be made with flexible, watertight connectors. Openings shall conform to Contract Drawings to allow connection of influent and effluent pipes at the elevations depicted.
B. Excavation:
   1. Excavate for Storm Drainage Structure and Inlet and Outlet piping in accordance with Contract Drawings in location and to depths shown. Provide clearance around sidewalls of structure for construction operations.
   2. If groundwater is encountered, prevent accumulation of water in excavations.
C. Placement
   1. Compact existing sub-grade crushed stone to 95% density in accordance with ASTM D1557 as indicated in Contract Drawings.
   2. Lift precast concrete structures at lifting points designated by manufacturer.
   3. Install precast concrete base to elevation and alignment indicated on Contract Drawings and level to elevation depicted on the Contract Drawings.
4. Place structure in dry trench on compacted crushed stone base and level to elevation depicted on the Contract Drawings.

5. Locate pipe(s) as indicated on plan and cut pipe to finish flush with concrete face. Connect pipe(s) to inlets and manhole structures with watertight connection as indicated in Contract Drawings.

6. Bedding for pipe shall meet the requirements of ASTM D2321.

D. Length of Pipe Connections into Structure:

1. Use pipes no longer than 5-feet in length when connecting through resilient gasket type pipe opening seals.

2. For all other pipe connections, use pipes of such length that a pipe joint is provided at the outside edge of manhole base or wall as applicable. Also use pipes no longer than 6 feet in length for first pipe joined thereto.

E. Backfill

1. For pipe placed in fill sections, backfill material and the placement and compaction procedures shall be as specified below. The fill material shall be uniformly spread in layers longitudinally on both sides of the pipe, not exceeding 6 inches in compacted depth, and shall be compacted by rolling parallel with pipe or by mechanical tamping or ramming.

2. Prior to commencing normal filling operations, the crown width of the fill at a height of 12 inches above the top of the pipe shall extend not less than twice the outside pipe diameter on each side of the pipe. After the backfill has reached at least 12 inches above the top of the pipe, the remainder of the fill shall be placed and thoroughly compacted in layers not exceeding 6 inches. Use select granular material for this entire region of backfill for flexible pipe installations.

F. Compaction

1. Backfill over and around the pipe and backfill around and adjacent to drainage structures shall be compacted to 95% density in accordance with ASTM D1557.

G. Manhole Frame and Cover Installation: Where required, make final adjustment of frame to elevation using precast grade rings. Frame and Covers shall be set within 1/8" of elevations identified in the Contract Drawings. Connect Manhole Frame to Manhole per manufacturers recommendations.

END OF SECTION 334900
CITY OF NEW BEDFORD
DEPARTMENT OF PURCHASING

BID FORM #20171038

A. The undersigned proposers to supply and deliver the materials specified below in full accordance with the Contract Documents and Project Manual supplied by the City of New Bedford entitled:

**Keith Middle School Turf Construction Project**

For the contract price specified below, subject to additions and deduction according to the terms of the specifications.

B. This bid includes addenda number(s) __________

C. The Contractor shall insert prices for each item in ink, in both words and figures.

__________________________ _____________________________.Dollars and $__________________________

COMPANY NAME: ____________________________________________

D. The undersigned has completed and submits herewith the following documents:

- Bidder’s Qualifications and References Form, 2 pages
- Certificate of Non-Collusion and Tax Compliance Form, 1 page
- Debarment Letter, 1 page
- Signed Bid Form, 2 pages
- A five percent (5%) bid deposit.

E. Prompt Payment Discounts. Bidders are encouraged to offer discounts in exchange for an expedited payment. Payments may be issued earlier than the general goal of within 3 days of receipt of the invoice only when in exchange for discounted prices. Discounts will not be considered in determining the lowest responsible bidder.

Prompt Payment Discount __________ % __________ Days
Prompt Payment Discount __________ % __________ Days
Prompt Payment Discount __________ % __________ Days

F. The undersigned agrees that, if selected as general contractor, s/he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the City of New Bedford, execute a contract in accordance with the terms of this bid and furnish a labor and materials payment bond of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the City of Newton in the sum not less than 50% of the contract price, the premiums for which are to be paid by the contractor and are included in the contract price.

The undersigned hereby certifies that s/he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that s/he will comply fully with all laws and regulations applicable to awards made subject to section forty-four A of M.G.L. Chapter 30, §39M.
The undersigned certifies 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; (2) 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 (“OSHA”) that is at least 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; and (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States OSHA that is at least 10 hours in duration. The undersigned understands that any employee found on a worksite subject to this section without documentation of successful completion of a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration shall be subject to immediate removal.

The undersigned further 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 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 undersigned further certifies under the penalties of perjury that they have familiarized themselves with the changes to the Prevailing Wage Rates, Price Adjustment Clauses, in accordance to Chapter 303 Acts of 2008.

G. Environmentally Preferable products information (which is requested but which will not be considered in awarding a contract):

Description of environmental attributes of Bidder’s goods or services:

Steps taken to (a) identify any positive or negative environmental attributes of products or services and (b) insure that those attributes are being addressed as part of operations:
Date __________________________

(Name of General Bidder)

BY: ________________________________

(Printed Name and Title of Signatory)

____________________________________

(Business Address)

____________________________________

(City, State, Zip)

____________________________________

(Telephone) (FAX)

____________________________________

(E-mail address)

NOTE: If the bidder is a corporation, indicate state of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses of all partners; if an individual, give residential address if different from business address; and, if operating as a d/b/a give full legal identity. Attach additional pages as necessary.

END OF SECTION
CITY OF NEW BEDFORD

BIDDER’S QUALIFICATIONS AND REFERENCE FORM

All questions must be answered, and the data given must be clear and comprehensive. Please type or print legibly. If necessary, add additional sheet for starred items. This information will be utilized by the City of New Bedford for purposes of determining bidder responsiveness and responsibility with regard to the requirements and specifications of the Contract.

1. FIRM NAME: ____________________________________________________________

2. WHEN ORGANIZED: ____________________________________________________

3. INCORPORATED? _____ YES _____ NO DATE AND STATE OF INCORPORATION: ________________________

4. IS YOUR BUSINESS A MBE? _____ YES _____ NO WBE? _____ YES _____ NO OR MWBE? _____ YES _____ NO

5. LIST ALL CONTRACTS CURRENTLY ON HAND, SHOWING CONTRACT AMOUNT AND ANTICIPATED DATE OF COMPLETION:
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

6. HAVE YOU EVER FAILED TO COMPLETE A CONTRACT AWARDED TO YOU?
   _____ YES _____ NO
   IF YES, WHERE AND WHY?
   __________________________________________________________
   __________________________________________________________

7. HAVE YOU EVER DEFAULTED ON A CONTRACT? _____ YES _____ NO
   IF YES PROVIDE DETAILS.
   __________________________________________________________
   __________________________________________________________
8. LIST YOUR VEHICLES/EQUIPMENT AVAILABLE FOR THIS CONTRACT:

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________


9. IN THE SPACES FOLLOWING, PROVIDE INFORMATION REGARDING CONTRACTS COMPLETED BY YOUR FIRM SIMILAR IN NATURE TO THE PROJECT BEING BID. A MINIMUM OF FOUR (4) CONTRACTS SHALL BE LISTED. PUBLICLY BID CONTRACTS ARE PREFERRED, BUT NOT MANDATORY.

PROJECT NAME: __________________________________________________________

OWNER: ___________________________________________________________________

CITY/STATE: __________________________________________________________________

DOLLAR AMOUNT: $______________ DATE COMPLETD: ________________

PUBLICLY BID?_____ YES      _____NO

TYPE OF WORK?: ___________________________________________________________________

CONTACT PERSON: ___________________________________________________________________

CONTACT PERSON’S RELATION TO PROJECT?: ____________________________ (i.e., contract manager, purchasing agent, etc.)

PROJECT NAME: __________________________________________________________

OWNER: ___________________________________________________________________

CITY/STATE: __________________________________________________________________

DOLLAR AMOUNT: $______________ DATE COMPLETD: ________________

PUBLICLY BID?_____ YES      _____NO

TYPE OF WORK?: ___________________________________________________________________

CONTACT PERSON: ___________________________________________________________________

CONTACT PERSON’S RELATION TO PROJECT?: ____________________________ (i.e., contract manager, purchasing agent, etc.)
PROJECT NAME: ____________________________________________________

OWNER: ___________________________________________________________

CITY/STATE: _______________________________________________________

DOLLAR AMOUNT: $_____________ DATE COMPLETD: _________________

PUBLICLY BID? ____ YES   ____ NO

TYPE OF WORK?: ___________________________________________________

CONTACT PERSON: _________________________________________________

CONTACT PERSON’S RELATION TO PROJECT?: __________________________ (i.e., contract manager, purchasing agent)

PROJECT NAME: __________________________________________________

OWNER: __________________________________________________________

CITY/STATE: _______________________________________________________

DOLLAR AMOUNT: $_____________ DATE COMPLETD: _________________

PUBLICLY BID? ____ YES   ____ NO

TYPE OF WORK?: ___________________________________________________

CONTACT PERSON: _________________________________________________

CONTACT PERSON’S RELATION TO PROJECT?: __________________________ (i.e., contract manager, purchasing agent, etc.)

10. The undersigned certifies that the information contained herein is complete and accurate and hereby authorizes and request any person, firm, or corporation to furnish any information requested by the City of New Bedford in verification of the recitals comprising this statement of Bidder’s qualifications and experience.

DATE: ___________  BIDDER: _________________________________________

SIGNATURE: ______________________________________________________

PRINTED NAME: ______________________________ TITLE: _______________________

END OF SECTION
CITY OF NEW BEDFORD
MASSACHUSETTS

NON-COLLUSION AND TAX COMPLIANCE FORM

CERTIFICATE OF NON-COLLUSION

The undersigned certified 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.

Signature of individual submitting bid

Name of business/organization

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes reporting of employees and contractor, and withholding and remitting child support.

Signature of person submitting bid

Name of business
City Of New Bedford

Mayor Jonathan F. Mitchell

DATE

Vendor

Re: Debarment Letter for Invitation For Bid #20171038

As a potential vendor on the above contract, the City requires that you provide a debarment/suspension certification indicating that you are in compliance with the below Federal Executive Order. Certification can be done by completing and signing this form.

Debarment:
Federal Executive Order (E.O.) 12549 “Debarment and Suspension“ requires that all contractors receiving individual awards, using federal funds, and all sub-recipients certify that the organization and its principals are not debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency from doing business with the Federal Government.

I hereby certify under pains and penalties of perjury that neither I nor any principal(s) of the Company identified below is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

_________________________ (Name)
_________________________ (Company)
_________________________ (Address)
_________________________ (Address)

PHONE __________________ FAX ______________
EMAIL ____________________________

______________________________ Signature

______________________________ Date

If you have questions, please contact Richard Calderon, Director of Purchasing at (508) 979-1433
CONTRACT FORMS

The awarded bidder will be required to complete and submit documents substantially similar in form to the following.

These forms may need to be modified on account of changed circumstances and are provided for informational purposes only.
CITY CONTRACTOR AGREEMENT

CONTRACT NO. 20171038

THIS AGREEMENT made this ___ day of __________ in the year Two Thousand and Nineteen by and between the CITY OF NEW BEDFORD, a municipal corporation organized and existing under the laws of the Commonwealth of Massachusetts, hereinafter referred to as the City, acting through its Chief Procurement Officer, but without personal liability to him, and hereinafter referred to as the CONTRACTOR.

The parties hereto for the considerations hereinafter set forth agree as follows:

ARTICLE 1. STATEMENT OF WORK. The Contractor shall furnish all labor, materials, and equipment and perform all work required in strict accordance with the Contract Documents for the following project:

Keith Middle School Turf Construction Project

ARTICLE 2. TIME OF COMPLETION. The Contractor shall commence work under this Contract on the date specified in the written notice of the City to proceed and shall fully complete all work hereunder within the time specified in the Summary of Work and Specific Work Requirements of the Project Manual. Time is of the essence with regard to this contract, and all work specified shall be completed within six (6) months of the Contractor’s receipt of a Notice to Proceed. Failure to complete within the time specified shall be subject to the assessment of liquidated damages in accordance with the provisions contained in the Project Manual.

ARTICLE 3. THE CONTRACT PRICE. The City shall pay the Contractor for the full and satisfactory performance of the Contract, in current funds a sum not to exceed:

ARTICLE 4. CONTRACT DOCUMENTS. The Contract Documents consist of the following documents which are either attached to this Agreement or are incorporated herein by reference:

a. This City-Contractor Agreement;
b. The City’s Invitation For Bid # 20171038 issued by the Purchasing Department;
c. The Project Manual for: Keith Middle School Turf Construction Project including the Instructions to Bidders; General Conditions; Special Conditions; MWBE/AA Requirements, Wage Rate requirements and Wage Rate Schedule(s) including any updated prevailing wage rate schedules if applicable; The Supplementary Special Conditions; General Requirements and Project Specifications; and Drawings, if included or referenced therein;
d. Addenda Number(s) _____;
e. The Bid Response of the CONTRACTOR submitted for this Project and accompanying documents and certifications;
f. Certificate(s) of Insurance and surety bond(s) submitted by the CONTRACTOR in connection with this Project;
g. Duly authorized and executed Amendments, Change Orders or Work Orders issued by the City after execution of this CITY-CONTRACTOR Agreement.
h. This CITY-CONTRACTOR Agreement, together with the other documents enumerated in this Article, constitute the entire Agreement between the CITY and the CONTRACTOR.

ARTICLE 5. **ALTERNATES.** The following Alternates have been accepted and their costs are included in the Contract Price stated in Article 3 of this Agreement:

Alternates: __ N/A ____________

ARTICLE 6. **APPLICABLE STATUTES.** All applicable federal, state and local laws and regulations are incorporated herein by reference and the Contractor agrees to comply with same.
IN WITNESS WHEREOF: The City of New Bedford has caused its corporate seal to be hereto affixed and the parties have executed this Agreement, signed this the _________day of __________, 2018.

(CONSULTANT) ________________ THE CITY OF NEW BEDFORD, MASSACHUSETTS

<table>
<thead>
<tr>
<th>Title:</th>
<th>CITY OF NEW BEDFORD, MASSACHUSETTS</th>
</tr>
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<tbody>
<tr>
<td>By:</td>
<td>By: Jonathan F. Mitchell</td>
</tr>
<tr>
<td>Title:</td>
<td>Title: Mayor</td>
</tr>
</tbody>
</table>

CERTIFIED that funds are available

<table>
<thead>
<tr>
<th>By: Robert Ekstrom</th>
<th>DEPT: Environmental Stewardship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title: City Auditor</td>
<td>By: Michele Paul</td>
</tr>
<tr>
<td></td>
<td>Title: Director of Environmental Stewardship</td>
</tr>
</tbody>
</table>

APPROVED as to Form and Legality

<table>
<thead>
<tr>
<th>By: Eric Cohen</th>
<th>Chief Financial Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title: Associate City Solicitor</td>
<td>By: Ari Sky</td>
</tr>
<tr>
<td></td>
<td>Title: Chief Financial Officer</td>
</tr>
</tbody>
</table>

Purchasing Department

<table>
<thead>
<tr>
<th>By: Molly Gilfeather</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title: Director of Purchasing</td>
</tr>
</tbody>
</table>
At a meeting of the Board of Directors of ________________ duly called and held on ________________, 20____ at which a quorum was present and acting throughout, the following vote was duly adopted.

VOTED: That ______________________, the ______________________ of the corporation, be and hereby is authorized to affix the Corporate Seal, sign and deliver in the name and behalf of the corporation contract documents with the City of New Bedford, the above mentioned documents to include but not be limited to Bids, Proposals, Deeds, Purchase and Sales Agreements, Agreements, Contracts, Leases, Licenses, Releases and Indemnifications; and also to seal and execute, as above, surety company bonds to secure bids and proposals and the performance of said contract and payment for labor and materials, all in such form and on such terms and conditions as he/she, by the execution thereof, shall deem proper. A true copy

ATTEST:

__________________________________________

Name (printed)

__________________________________________ (Affix Corporate Seal)

Signature

__________________________________________  __________________________
PAYMENT BOND

CITY OF NEW BEDFORD

KNOW ALL MEN BY THESE PRESENTS:

That we, ____________________________, as Principal, and ____________________________, as Surety, are held and firmly bound unto the ____________________________, City of New Bedford, as Obligee, in the sum of ____________________________ dollars ($______________) to be paid to the Obligee, for which payments, well and truly to be made, we bind ourselves, our respective heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has made a contract with the Obligee, bearing the date of __________, 20__, for the ____________________________ in ____________, Massachusetts.

NOW the conditions of this obligation are such that if the Principal and all subcontractors under said contract shall pay for all labor performed or furnished and for all materials used or employed in said contract and in any and all duly authorized modifications, alterations, extensions of time, changes or additions to said contract that may hereafter be made, notice to the Surety of such modifications, alterations, extensions of time, changes or additions being hereby waived, the foregoing to include any other purposes or items set out in, and to be subject to, provisions of M.G.L. c.30 §39A, and M.G.L. c.149 §29, as amended, then this obligation shall become null and void; otherwise it shall remain in full force and virtue.

IN WITNESS WHEREOF, the Principal and Surety have hereunto set their hands and seals this: __________ Day of ____________ 20__

PRINCIPAL ____________________________ SURETY ____________________________

By: ____________________________ By: ____________________________

SEAL ATTORNEY-IN FACT

Attest: ____________________________ Attest: ____________________________

The rate for this bond is ___% for the first $____________ and ___% for the next $____________.

The total premium for this bond is $____________.

The rate for this bond is ___% for the first $____________ and ___% for the next $____________.

The total premium for this bond is $____________.
CITY OF NEW BEDFORD

GENERAL CONDITIONS OF THE CONTRACT

FOR PUBLIC WORKS CONSTRUCTION

ARTICLE 1

Definitions

The word “Commissioner” shall mean the official duly authorized to act for the City of New Bedford in the execution of the work of this contract, acting directly or through properly authorized agents.

The word “Engineer,” or “City Engineer,” shall mean the City Engineer of the City of New Bedford, acting directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

The word “Contractor” shall mean the party or parties contracting to perform the work covered by this contract or his, or their, legal representatives, successors or assigns.

The word “Plans” shall mean plans, and related drawings, diagrams, profiles, and specifications referred to and included in the Project Manual for this contract.

The word “City” shall mean the City of New Bedford.

The word “Project” shall mean the services which are the subject of the Contract Documents.

The words “Subcontract” and Subcontractor” shall refer to project contracts between the Contractor and a subcontractor, and the subcontractor thereunder.

The Term “Substantial Completion” shall mean either that the work required by the contract has been completed except for the work having a contract price of less than one per cent of the then adjusted contract price, or substantially all of the work has been completed and opened to public use except for minor incomplete or unsatisfactory work items that do not materially impair the usefulness of the work required by the contract.

ARTICLE 2

Plans, Drawings, Profiles

1. The work shall be done in accordance with Plans referred to in Article 1 and such further working and detail plans, drawings, and profiles as may be furnished from time to time by the Engineer. All said plans, general and detail, are to be deemed a part of this contract, and the said plans, specifications and contract are to be considered together, so that any work mentioned in the contract, though not shown on the Plans, and any work shown on the Plans though not mention in the contract, is to be provided by the Contractor as a part of this contract. Figured dimensions are prevailed over scale. All things which in the opinion of the Engineer may fairly be inferred from the contract, Plans and specifications, are to be executed by the Contractor as a part of the contract; and the Engineer shall be sole judge as to whether details plans, drawings and profiles conform to the Plans and the contract.
Discrepancy in Plans

2. The Contractor shall carefully examine all said Plans, profiles, drawings, specifications and orders; all figures, dimensions, lines, marks and scales thereof, and all directions of the Commissioner and the Engineer relating to the work, and conform to those in relation to which there is no doubt or discrepancy, but at once submit all cases of doubt or discrepancy to the Engineer for adjustment. Anything done on any part of the work for which special information or drawing should be procured, unless done in accordance with such information or drawing, or anything done in relation to which there is doubt or discrepancy, except in accordance with the adjustment thereof, or done in violation of law or public authority, is to be redone if the Commissioner shall so direct.

ARTICLE 3
Inspection

The Contractor in carrying on the contract shall conform to all determinations and directions of the Engineer relating to the proper interpretation of the plans, the fitness of persons employed on the work or the number thereof, or the suitable, amount, quality, and value of anything done or any materials used, and the Contractor shall permit the Commissioner and/or the Engineer and/or persons designated by them to enter upon the work and inspect the same at all times and in all places, and shall provide safe and convenient facilities for making such entry and inspection.

ARTICLE 4
Change in Plans and Work

The City, acting through the Commissioner and upon his written order only, from time to time given to the Contractor or his foreman, may change, increase or take away any part of the work, or change the specifications, Plans, drawings, form or materials thereof. Any deduction or addition thereto is to be allowed, or paid for at a price to be determined, within not more than 15 days of the completion of the change, by the City Engineer acting in the same capacity as an architect in a building contract as between City and Contractor. Any demand for addition or deduction must be made in writing to the City Engineer within seven (7) days of the time change was ordered.

ARTICLE 5
Time and manner of Doing the Work

1. The Contractor shall begin work upon receipt of written Notice to Proceed. Once begun the work shall be carried out in a continuous and uninterrupted fashion with sufficient workforce and resources to assure completion by the date for completion established by the Contract Documents.

2. The Contractor shall carry on the work in accordance with the requirements of law and of all other public authorities, and to the satisfaction of the Commissioner; he shall give all notices, take out all permits, pay all charges and fees, give personal supervision to the work and keep thereon a competent foreman and sufficient employees, skilled in the several parts which are given them to do.
Maintenance of Travel

3. As applicable, the contractor shall conduct his work so as to interfere as little as possible with public travel, and shall give property owners proper means of access to their property where existing access has been cut off by the work. The Contractor shall keep the streets open for through travel except where, in the opinion of the Commissioner, it is necessary to close the street. The continuous length of the street occupied for the work shall be kept as short as possible, and no part of the work shall be unnecessarily delayed. Wherever the Commissioner shall direct, trenches shall be bridged by the Contractor in a proper and secure manner so as not to interrupt travel. Free access shall be maintained at all times to all water gates, gas gates, and fire hydrants.

Abandonment of Work by Contractor

4. In the event the City Engineer certifies to the Commissioner that the work is not being so carried forward or if the Contractor at any time is not carrying on the work to the satisfaction of the Commissioner, or is not observing any of the Contractor at any time is not carrying on the work to the satisfaction of the commissioner, or is not observing any of the provisions of the contract, or has abandoned the work, or become insolvent or assigned his property, the City, acting by the Commissioner and at his discretion, may, with or without notice to the Contractor, or advertising for doing the work, and by contract, day labor or otherwise, do any part of the work which the Contractor has failed to do or replace any part not done to the satisfaction of the Commissioner, or take possession of the work and complete the same, and in doing so may use any implements, machinery or materials on or about the work which are the property of the Contractor, charging the Contractor any excess cost for completing the work, which excess cost the Contractor agrees to pay.

ARTICLE 6
Compensation for Work

1. Subject to the provisions of paragraph 10 of this Article, the price named in the proposal and accepted by the City shall be paid by the City and received by the Contractor as full compensation for furnishing materials and for use of tools, forms, machinery and other implements, and for labor in moving materials and executing all the work contemplated in this contract, also for loss or damage arising from delay however occasioned, or out of the nature of the work aforesaid or from the action of the elements, from floods, or from any unforeseen obstructions or difficulties which may be encountered in the prosecution of the same and for all risks of every description connected with the work and for well and faithfully completing the work in the proper manner and according to the plans and specifications and requirements of the Commissioner under them.

2. During the first week of each calendar month, the City Engineer shall cause all work done by the Contractor during the previous month to be measured and shall estimate the value thereof and, on or before the 10th of each month issue a certificate to the commissioner of the measurements and the amount due the Contractor according to the terms of his contract.

3. The City shall pay the Contractor on approval of the Commissioner monthly on or before the 18th of each month for all work done during the preceding month according aforementioned certificate of the Engineer, less 5% percent of the amount of such work and less any amounts due the City by the Contractor.
Final and Substantial Completion

4. Upon substantial completion of the work required by the Contract, the Contractor must present to the City Engineer written certification that the work is substantially complete. Within 21 calendar days after such certification is presented, the City Engineer shall present to the Contractor either a written declaration that the work is substantially complete or an itemized list of incomplete or unsatisfactory work items sufficient to demonstrate that the work is not substantially complete. The City Engineer shall include with such itemized list a date by which the work items must be completed, which date may not be earlier than the date for substantial completion established in the Contract Documents. If the City Engineer does not respond as provided herein within 21 calendar days, then the date of the Contractor’s certification shall become the date for effective declaration of substantial completion.

5. Within 15 calendar days after the effective declaration of substantial completion, the City Engineer shall send to the Contractor by certified mail, return receipt requested, a complete list of all incomplete or unsatisfactory work items. Unless delayed by causes beyond the Contractor’s control, with an extension of the time granted pursuant to Article 8, the Contractor must complete the work items within 45 calendar days after receipt of the list, or by the contractual completion date, whichever is later. If the Contractor fails to complete the work within the required time the City may, notwithstanding other rights and remedies at its disposal, and upon seven days written notice to the Contractor terminate the contract and complete the incomplete or unsatisfactory work items and charge the cost of same to the Contractor.

6. Within 65 calendar days following the effective declaration of substantial completion, the City Engineer shall issue to the Commissioner who shall cause to be paid to the Contractor a substantial completion estimate which shall consist of the balance of the then current price less a one percent retention, the estimated cost to complete incomplete or unsatisfactory work items, the value of any outstanding claims against the Contractor and the sum of all demands for direct payment made pursuant to Article 12 herein, provided that until final acceptance, the City shall retain five percent of the value of all items planted in the ground.

7. The Contractor shall provide written notice to the Engineer when the work has been brought to final completion. Within ten days following receipt of such notice, and providing his inspection shows no work items remain incomplete or unsatisfactory, the City Engineer shall issue to the Commissioner a final certificate of the total amount of work done and the money due the Contractor thereof, crediting thereon the amounts of the previous payments. In making the final certificate, the City Engineer shall not be bound by any preceding certificate or estimate of the amounts of work done or materials furnished.

8. Within 30 calendar days following receipt of final completion, the City shall pay the Contractor, on the approval of the Commissioner, the percentages retained and balance due the Contractor according to the aforementioned final certificate of the City Engineer less any indebtedness of the Contractor for incomplete or unsatisfactory work or claims made by or against the City. If a claim or claims are made, or notice of liability given, such amounts due the Contractor may be paid upon satisfaction of such claims or upon furnishing of indemnity to said City against all loss, cost, damage or expense by reason of such claims.
9. The City, on making any payment after the completion of the work, shall be released from all claim or liability to the Contractor for anything done or used, or for any loss or injury sustained in carrying on the contract, or for any act, omission, neglect or mistake of the City or any person relating to or affecting the contract, except for the balance of any sum retained as aforesaid.

Extra Work

10. The Contractor shall be paid for any additions, or deductions as provided in Article 4, paragraph 1, and for extra labor done by, and for extra materials furnished by him in compliance with the written order only of the Commissioner, calling for work not similar in character to that covered by the items given in the proposal, and for which no price is set in the said written order, the direct (not including consequential) cost to the Contractor, as determined to be reasonable by the Commissioner, plus fifteen per cent of said costs as so determined in regard to labor only. For teams or trucks so furnished, no payment shall be made to the Contractor beyond the current local rate as determined by the Commissioner in each case. The direct cost of labor may include the cost of mechanics and laborers furnished and a reasonable proportion of the time of the foreman and timekeeper, but it shall in no case include any charge for use of tools, for establishment charges or for time spent by the Contractor. The actual cost of insurance on extra pay rolls and of materials furnished for extra work, shall be paid without any addition. The labor and materials so ordered shall constitute a part of the work to be done under the contract; and all and singular the provisions of the contract shall apply to said labor and materials as if the same were specified therein. The Contractor shall have no claim for the above mentioned extra labor and materials unless he furnishes the details and bills thereof within one week after doing any such labor or furnishing any such materials.

11. No claim of the Contractor against the City under this contract shall be deemed valid unless such claim is presented to the Commissioner within ten days from the time when the Contractor first knows of, or has opportunity to know of, the acts and circumstances on which such claim is based.

12. A payment or payments to the Contractor, in cases where these provisions or any of them, are not complied with, shall not be construed as a waiver of said provisions or any part thereof.

Contract Made Subject to Appropriations

13. This contract is made subject to appropriation heretofore made and shall not be altered unless the Contractor, the sureties on the bond, if any, the officer making the contract and the Mayor shall in writing agree thereto.

ARTICLE 7

Liquidated Damages

1. In case the work embraced in the contract shall not have been substantially completed by the date(s) stipulated therein, the Contractor shall pay to the City of New Bedford as liquidated damages a designated sum per calendar day for the entire period of overrun until the work is substantially completed in accordance with the following Schedule of Deductions and, in addition, the Contractor shall pay without reimbursement the entire cost of all traffic officers, railroad flagmen, inspectors, or other personnel the City Engineer and/or the Chief Engineer of the railroad determines to be necessary during the period of overrun of time.
SCHEDULES OF DEDUCTIONS

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2. In case the work covered by the contract shall not have been brought to final completion within 45 calendar days following the date declaration of substantial completion, the Contractor shall pay to the City of New Bedford as liquidated damages the sum of $150.00 for each week or portion thereof during the period of overrun until the work is complete.

3. Whatever sum of money may become due and payable to the City of New Bedford by the Contractor under this Article may be retained out of money belonging or owed to the Contractor in the hands and possession of or by the City of New Bedford. It is agreed that this Article shall be construed and treated by the parties to the contract not as imposing a penalty upon said Contractor for failing fully to complete said work as agreed on or before the time specified in the proposal, but as liquidated damages to compensate said City of New Bedford for all additional costs incurred by it because of the failure of the Contractor fully to complete said work on or before the date of completion specified in the proposal.

ARTICLE 8
Delays and Extensions of Time

1. If the Contractor is delayed at any time in the process of the work by an or neglect of the City, or by changes in the work ordered by the City, or by unseasonably inclement weather, or by other causes deemed by the City Engineer to be beyond the Contractor’s control, and which the City Engineer determines may justify delay, then the time for completion may be extended for such reasonable time as the City Engineer may determine.

2. No such extension of time will be allowed unless the Contractor submits a written request for an extension to the City Engineer no later than 10 calendar days of the start of the occurrence or event giving rise thereto. Each such request must describe the occurrence or event and specify the manner and extent that such occurrence or event is causing or has caused a delay in the work. The City Engineer shall promptly investigate each request and make his written determination to the Commissioner and the Contractor within 10 days after receipt of the request. In his determination the City Engineer may either grant, deny, or modify, the length of the requested extension.

3. If the City Engineer’s determination so warrants, the Commissioner shall authorize a written Change Order to the Contract extending the time for completion. No extension of time shall be deemed as granted until said Change Order has been duly executed by the parties.

4. Change Orders which may be executed by the City and the Contractor in connection with additions, extra labor and/or extra materials shall not be considered as allowing extensions of the time for completion unless the change order expressly specifies that additional time is allowed in connection
with the work under the change order. Once a Change Order has been executed by the parties, any request by the Contractor for an extension of time based solely on the fact additions, extra labor and/or extra materials are required by the Change Order will be denied by the City Engineer.

5. Permitting the Contractor to Continue and finish the work or any part of it after the times fixed for its completion, or after the date to which the time for completion may have been extended, shall in no way operate as a waiver on the part of the City of New Bedford of any of its right under the contract. The Contractor remains liable for damages caused other than by delay.

ARTICLE 9
Lines and Grades

The Contractor shall retain a Registered Land Surveyor who shall furnish such boards and stakes cause to be placed thereon, such lines, marks and directions relating to the work as the Commissioner or the City Engineer shall from time to time direct.

ARTICLE 10
Public Service Pipes and Conduits

1. The Contractor shall maintain such pipes or conduits of public service corporations or of the City as are across or within the lines of the work until such time as said public service corporations or the City assume the maintenance or removal of said pipes or conduits. The Commissioner will notify such public service corporations to that effect on the existence of such obstructions to the work being brought to his notice by the Contractor. The City will relocate either temporarily or permanently all water mains and water service pipes, or hydrants, and drains or sewer which may interfere with the work contemplated in this contract. (This clause is not to be construed as applying to such pipes as may be readily supported and protected during the progress of the work.) The cost of shutting off and turning on water in water mains during blasting shall be assumed by the City.

Protection of Existing Structures

2. All existing gas pipes, water pipes, sewers, drains, conduits, or other structures which are uncovered by the excavation shall be carefully supported and protected from injury by the Contractor, and in case of injury, they shall be restored by him, without compensation thereof, to as good condition as that in which they were found, and shall be kept in repair until 6 months after the completion of the work. The Contractor shall provide suitable temporary channels for water at all water courses. Wherever the work passes under or adjacent to street railway tracks, the Contractor shall make all necessary arrangements with the railway company for doing any work which may affect the property of the company or interfere with the operating of the railway, and he shall be liable for any damages that may be caused by any act, omission or neglect on his part, and shall pay all expenses of every kind incidental to this work.

Changing the Location of Existing Structures

3. Whenever it becomes necessary to change the location of any water or gas pipes, sewers, drains, conduits or other structures not otherwise provided for in these specifications, the Contractor shall do the whole or such portions of the work of making such changes as the Commissioner may require, and receive in payment therefor the reasonable cost of the work done as determined by the
Commissioner plus 15 cent of such cost. In estimating such cost, no allowance shall be made to the Contractor for the use of tools not especially provided for this work, for general superintendence, or for any overhead expenses except liability insurance.

ARTICLE 11
Co-operation with Other Contractors

The Contractor shall conduct the work in such manner as not to interfere with other work being done by the City, by contract or otherwise, and if deemed necessary by the Commissioner, the work under this contract shall conform to the progress of said other work: shall co-operate with other contractors or employees who may be doing work for the City, and with public service corporations affected by the work, in arranging for storage places, connections, bracings, temporary support for structures, repairs, etc.

ARTICLE 12
Subcontracts

1. The Contractor, in any contract with a Subcontractor, shall provide that the Subcontractor shall be subject to all specifications, terms, provisions, conditions, requirements and liabilities set forth in this contract so far as such specifications, terms, provisions, conditions, requirements and liabilities are applicable to the work to be done under such Subcontract, and shall also provide that such Subcontract shall be terminated by the Contractor whenever the Commissioner shall certify to him in writing that in his opinion the work of the Subcontractor is unnecessarily or unreasonably delayed or that the Subcontractor has violated any of the provisions of this contract. The Contractor shall at once terminate such subcontract if the Commissioner, after certifying as foresaid, shall in writing direct the Contractor to make such termination.

2. Subcontracts shall be made in writing and the Contractor shall furnish the Commissioner with a copy of all Subcontracts on demand.

3. Pursuant to the provisions of M.G.L. 30, Sec. 39F (1), the following provisions are included in the General Conditions:

(a) Forthwith after the Contractor receives payment on account of a periodic estimate, the Contractor shall pay to each Subcontractor the amount paid for the labor performed and the materials furnished by that Subcontractor, less any amount specified in any court proceedings barring such payment and also less any amount claimed due from the Subcontractor by the Contractor.

(b) Not later than sixty-fifth day after each Subcontractor substantially completes his work in accordance with the plans and specifications, the entire balance due under the Subcontract less amounts retained by the City as the estimated cost of completing the incomplete and unsatisfactory items of work, shall be due the Subcontractor; and the City shall pay that amount to the Contractor. The Contractor shall forthwith pay to the Subcontractor the full amount received from the City less any amount specified in any court proceedings barring the payment and also less any amount claimed due from the Subcontractor by the Contractor.

(c) Each payment made by the City to the Contractor pursuant to subparagraphs (a) and (b) of this
paragraph for the labor performed and the materials furnished by a Subcontractor shall be made to the Contractor for the account of the Subcontractor; and the City shall take reasonable steps to compel the Contractor to make each such payment to each such Subcontractor. If the City has received a demand for direct payment from a Subcontractor for any amount which has already been included in a payment to the Contractor or which is to be included in a payment to the Contractor for payment to the Subcontractor as provided in subparagraphs (a) and (b), the City shall act upon the demand as provided in this section.

(d) If, within seventy days after the Subcontractor has substantially completed the Subcontract work, the Subcontractor has not received from the Contractor the balance due under the Subcontract including any amounts due for extra labor and materials furnished to the Contractor, less an amount retained by the City, the demand shall be by a sworn statement delivered to or sent by certified mail to the City, and a copy shall be delivered to or sent by certified mail to the Contractor at the same time. The demand shall contain a detailed breakdown of the balance due under the Subcontract and also a statement of the status of the completion of the Subcontract work shall be valid even if delivered or mailed prior to the seventieth day after which the Subcontractor has substantially completed the Subcontract work. Within ten days after the Subcontractor has delivered or so mailed the demand to the City and delivered or so mailed a copy to the Contractor, the Contractor may reply to the demand. The reply shall be by a sworn statement delivered to or sent by certified mail to the City and a copy shall be delivered to or sent by certified mail to the Subcontractor at the same time. The reply shall contain a detailed breakdown of the balance due under the Subcontract including any amount due for extra labor and materials furnished to the Contractor and of the amount due for each claim made by the Contractor against the Subcontractor.

(e) Within fifteen days after receipt of the demand by the City, but in no event prior to the seventieth day after substantial completion of the Subcontract work, the City shall make direct payment to the Subcontractor of the balance due under the Subcontract including any amount due for extra labor and materials furnished to the Contractor, less any amount (i) retained by the City as the estimated cost of completing the incomplete or unsatisfactory items of work (ii) specified in any court proceedings barring such payment, or, (iii) if the reply shall not deduct from a direct payment any amount as provided in part (iii) if the reply is not sworn to, or for which the sworn reply does not contain the detailed breakdown required by subparagraph (d). The City shall make further direct payments to the Subcontractor forthwith after the removal of the basis for deductions from direct payments made as provided in parts (i) and (ii) of this subparagraph.

(f) The City shall forthwith deposit the amount deducted from a direct payment as provided in part (iii) of subparagraph (e) in an interest-bearing joint account in the names of the Contractor and the Subcontractor in a bank in Massachusetts selected by the City or agreed upon by the Contractor and the Subcontractor and shall notify the Contractor and the Subcontractor of the date of the deposit and the bank receiving the deposit. The bank shall pay the amount in the account, including accrued interest, as provided in an agreement between the Contractor and the Subcontractor or as determined by decree of a court of competent jurisdiction.

(g) All direct payments and all deductions from demands for direct payments deposited in an interest-bearing account or accounts in a bank pursuant to subparagraph (f) shall be made out of amounts
payable to the Contractor at the time of receipt of a demand for direct payment from a Subcontractor and out of amounts which later become payable to the Contractor and in the order of receipt of such demands from Subcontractors. All direct payments shall discharge the obligation of the City to the Contractor to the extent of such payment.

(h) The City shall deduct from payments to a Contractor amounts which, together with deposits in interest-bearing accounts pursuant to subparagraph (f), are sufficient to satisfy all unpaid balances of demands for direct payment received from Subcontractors. All such amounts shall be earmarked for such direct payments, and the Subcontractors shall have a right in such deductions prior to any claims against such amounts by creditors of the Contractor.

ARTICLE 13
Responsibility for work-Contractor’s Responsibility

The Contractor has made his proposal from his own examinations and estimates, and shall not hold the City, its agent, or employees, responsible for or bound by, any schedule, estimate, sounding, boring, or any plan of any part of the work; shall, if any error in any plan, drawing, specification or direction relating to anything to be done under the contract come to his knowledge, report it at once to the Commissioner; shall not, except as the Commissioner shall authorize in writing, assign or sublet any part of the contract except for the supply of materials and plant, or of anything to be done thereunder; shall subject to the provisions of the contract take all responsibility of, and bear all losses resulting to him in carrying on the contract, and shall assume the defense of, and hold the City, its agent and employees harmless from all suits and claims against them, or any of them, arising from the use of any invention, patent or patent right, material, labor or implement, by or from any act or omission or neglect of the Contractor, his Subcontractor, his agents or employees, in carrying on the contract, or for any liability of any nature arising under the contract. The Contractor shall be solely responsible and liable for, and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction, whether such damages be attributable to negligence of the Contractor, his employees or his Subcontractor or otherwise.

ARTICLE 14
Lights—Guard

1. The Contractor shall assume all responsibilities of the work and take all proper precautions to protect persons and property from injury and unnecessary interface; leave a reasonably unobstructed way along public and private places for pedestrians, teams, and vehicles, and for access to hydrants; provide proper walks over or around any obstruction made in a public or private place in carrying on the contract, and maintain from the beginning of twilight through the whole of every night, on or near the obstruction sufficient lights and guards to protect travelers from injury thereby, and if, after one notification from the Commissioner that said lights and guards are not sufficient, the Contractor has not placed additional lights and guards to the satisfaction of the Commissioner, the Commissioner shall have the right to take charge of that part of the work at the expense of the Contractor. While the work is suspended he shall keep all roadways and sidewalks in proper condition, and when the work is completed put the place and vicinity in proper condition and so leave them.

2. The Contractor shall provide proper means of access to property where the existing access is cut off by the Contractor and replace or put in good condition every conduit, catch-basin, tree, wall, fence, or other thing injured by the Contractor in carrying on the contract, unless the same has been permanently done away with, on approval of the Commissioner, as being necessary to the proper carrying on of the contract.

ARTICLE 15
Guaranty

1. Any settlement or other defect, of the failure of any part of the structure or the work due to defective materials or workmanship, that occurs within one year after the work is completed, is to be immediately repaired by the Contractor. In the event of any such settlement, defect, or failure causing liability to the City for damage to persons or property, the Contractor does by this clause agree to hold the City harmless and to assume the defense of any claims therefor.

2. Responsibility under this guaranty for the adequacy of the work does not relieve the Contractor of his obligation to comply with the terms of the contract and to conform to all the requirements of the plans and specifications, not does it give him the right to deviate in any way from the details of design of the structure or the work.

ARTICLE 16
Defective Work and Materials

The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein described, and defective work shall be made good and unsuitable materials may be rejected, notwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work or materials, or any part thereof shall be found defective at any time before the final acceptance of the whole work. The Contractor shall forthwith make good such defect in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials from the vicinity of the work. Nothing in this contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the work or the soil, but all materials shall, upon being so attached or affixed, become the property of the City.

ARTICLE 17
Employment of Labor

The Contractor shall give preference in employment, first to citizens of Massachusetts, second, to other citizens of the United States; and shall allow all employees on said work to lodge, board and trade where they choose, and shall not obstruct any other person in doing work for the City; and shall conform to all labor laws of the Commonwealth; and no laborer or teamster, workman or mechanic within this Commonwealth in the employ of the Contractor Subcontractor or other person doing or contracting to do whole or a part of the work contemplated by the Contractor shall be requested to, or required to, or work more than eight hours in any one calendar day. This contract is subject to all the laws of the Commonwealth, and ordinances of the City and if any clause thereof does not conform to such laws and ordinances, such clause shall be void and such laws and ordinances operated in lieu thereof.

ARTICLE 18
Laws and Regulations – Contractor to Comply with Law

The Contractor shall keep fully informed of all existing or future acts of the legislature, and of all municipal ordinances, prohibitions, rules and regulations in any manner affecting the conduct of the work, and of all orders or decrees of any body or tribunal having any jurisdiction or authority over the
materials, times, places and actions of those employed in the work embraced in the contract. The Contractor shall at all times observe and comply with all existing and future acts, ordinances, prohibitions, rules, regulations, orders and decrees; and shall protect and indemnify the City and its employees against any and all claims arising from or based on any violation of such acts, ordinances, prohibitions, rules, regulations, orders or decrees, and against all violations of law by the Contractor or his agents or employees.

END OF SECTION
CITY OF NEW BEDFORD

WAGE RATE REQUIREMENTS

1. GENERAL

A. This section summarizes the requirements for the payment of wages to laborers and mechanics employed under the Contract.

B. Other duties and requirements of law which may not be specified in this section apply and are inherently a part of the Contract.

2. WAGE RATES

A. The rate per hour to be paid to mechanics, apprentices, teamsters, chauffeurs, and laborers employed on the Work shall not be less than the rate of wages in the attached "Minimum Wage Rates" as determined by the Commissioner of Labor and Industries. This schedule shall continue to be the minimum rate of wages for said employees during the life of this Contract.

B. Keep posted on the site a legible copy of said schedule. Keep on file the wage rates and classifications of labor employed on this Work in order that they may be available for inspection by the Owner, Administrator, or the Architect.

C. Apprentices employed pursuant to this determination of wage rates must be registered and approved by the State Apprenticeship Council wherever rates for journeymen or apprentices are not listed.

D. Pay reserve police officers employed on the Work the prevailing rate of wages paid to regular police officers as required by M.G.L. c149, Sec. 34B, as amended. Such police officers shall be covered by Workmen's Compensation Insurance and Employers Liability Insurance by the Contractor.

E. The Contractor and all subcontractors shall, on a weekly basis throughout the term of the contract, provide to the City of Newton certified payroll affidavits verifying compliance with M.G.L. c.149, Sec. 27, 27A and 27B. The Contractor is obligated to provide such records to the City directly on a weekly basis. The City may assess a penalty of $100 for each day beyond the required submission date that such records are received, which amount shall be deducted from any amounts to the Contractor from the City. In the event of chronic late submissions, the City shall report the same to the Office of the Attorney General.

F. The Contractor and all subcontractors shall provide a Statement of Compliance within 15 days of the completion of its portion of the work. This statement shall be submitted to the Owner on the form found elsewhere in this section.

G. The Contractor shall maintain accurate and complete records, including payroll records, during the Contract term and for three years thereafter.

END OF SECTION
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

Awarding Authority: City of New Bedford
Contract Number: 20171038
City/Town: NEW BEDFORD

Description of Work: Keith Middle School Turf Construction Project - Complete preparation, install a synthetic turf & restoration of the Newmasket Field Recreation Area

Job Location: 225 Hathaway Blvd, New Bedford, MA

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 Standards Director under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H.
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

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For apprentice rates see "Apprentice - LABORER"

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For apprentice rates see "Apprentice- OPERATING ENGINEERS".

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For apprentice rates see "Apprentice- OPERATING ENGINEERS".

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For apprentice rates see "Apprentice- LABORER".

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Effective | Base Wage | Health | Pension | Supplemental | Total Rate
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### Notes:

**Apprentice to Journeyworker Ratio:** 1:5

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**Notes:**
- % Indentured After 10/1/17: 45/45/55/55/70/70/80/80
- Step 1&2 $29.99/ 3&4 $35.85/ 5&6 $54.22/ 7&8 $60.14
- Apprentice to Journeyworker Ratio: 1:5

**CARPENTER WOOD FRAME**

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All Aspects of New Wood Frame Work
### Classification

#### Effective
date

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**Notes:**

- % Indentured After 10/1/17: 45/45/55/55/70/70/80/80
- Step 1&2 $19.65/ 3&4 $27.19/ 5&6 $34.50/ 7&8 $37.29

### Apprentice to Journeyworker Ratio: 1:5

#### Effective Date - Carpenters (Wood Frame) - Zone 2

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Apprentice to Journeyworker Ratio: 1:3

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For apprentice rates see "Apprentice-LABORER"

| CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES        | 06/01/2019     | $49.18    | $12.00 | $15.60  | $0.00        | $76.78     |
| OPERATING ENGINEERS LOCAL 4                        | 12/01/2019     | $50.33    | $12.00 | $15.60  | $0.00        | $77.93     |
|                                                     | 06/01/2020     | $51.43    | $12.00 | $15.60  | $0.00        | $79.03     |
|                                                     | 12/01/2020     | $52.58    | $12.00 | $15.60  | $0.00        | $80.18     |
|                                                     | 06/01/2021     | $53.68    | $12.00 | $15.60  | $0.00        | $81.28     |
|                                                     | 12/01/2021     | $54.83    | $12.00 | $15.60  | $0.00        | $82.43     |

For apprentice rates see "Apprentice-OPERATING ENGINEERS"

| COMPRESSOR OPERATOR                                 | 06/01/2019     | $32.28    | $12.00 | $15.60  | $0.00        | $59.88     |
| OPERATING ENGINEERS LOCAL 4                        | 12/01/2019     | $33.07    | $12.00 | $15.60  | $0.00        | $60.67     |
|                                                     | 06/01/2020     | $33.82    | $12.00 | $15.60  | $0.00        | $61.42     |
|                                                     | 12/01/2020     | $34.60    | $12.00 | $15.60  | $0.00        | $62.20     |
|                                                     | 06/01/2021     | $35.35    | $12.00 | $15.60  | $0.00        | $62.95     |
|                                                     | 12/01/2021     | $36.14    | $12.00 | $15.60  | $0.00        | $63.74     |

For apprentice rates see "Apprentice-OPERATING ENGINEERS"

| DELEADER (BRIDGE)                                   | 07/01/2019     | $50.66    | $8.20  | $21.45  | $0.00        | $80.31     |
| PAINTERS LOCAL 33 - ZONE 2                          | 01/01/2020     | $50.96    | $8.20  | $22.10  | $0.00        | $81.26     |
|                                                     | 07/01/2020     | $52.06    | $8.20  | $22.10  | $0.00        | $82.36     |
|                                                     | 01/01/2021     | $53.16    | $8.20  | $22.10  | $0.00        | $83.46     |
## Classification

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### Notes:
- Steps are 750 hrs.

### Apprentice to Journeyworker Ratio: 1:1

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For apprentice rates see "Apprentice- LABORER"

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For apprentice rates see "Apprentice- LABORER"

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For apprentice rates see "Apprentice- LABORER"

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For apprentice rates see "Apprentice- LABORER"

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### Notes:
- Steps are 750 hours
- Apprentice to Journeyworker Ratio: 2:3***

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

Apprentice to Journeyworker Ratio: 1:1

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

### ELEVATOR CONSTRUCTOR HELPER

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For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

### FENCE & GUARD RAIL ERECTOR

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For apprentice rates see "Apprentice - LABORER"

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### Apprentice to Journeyworker Ratio: 1:1

#### FORK LIFT/CHERRY PICKER
OPERATING ENGINEERS LOCAL 4

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**Notes:**
- Steps are 750 hrs.
- % After 09/1/17: 45/45/55/55/70/70/80/80 (1500hr Steps)
- Step 1&2 $32.00/ 3&4 $38.36/ 5&6 $57.45/ 7&8 $63.86

For apprentice rates see "Apprentice - OPERATING ENGINEERS"
### Classification

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**Notes:**

Apprentice to Journeyworker Ratio: 1:3

**HOISTING ENGINEER/CRANES/GRADALLS**

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### Notes:

**Apprentice to Journeyworker Ratio: 1:6**

**HVAC (DUCTWORK)**

 SHEETMETAL WORKERS LOCAL 17 - B

For apprentice rates see "Apprentice- SHEET METAL WORKER"

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**HVAC (ELECTRICAL CONTROLS)**

 ELECTRICIANS LOCAL 223

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**HVAC (TESTING AND BALANCING - AIR)**

 SHEETMETAL WORKERS LOCAL 17 - B

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**HVAC (TESTING AND BALANCING - WATER)**

 PLUMBERS & PIPEFITTERS LOCAL 51

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For apprentice rates see "Apprentice- LABORER"

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**Apprentice -  ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Southern MA**

**Effective Date - 09/01/2019**

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**Notes:**
- Steps are 1 year

**Apprentice to Journeyworker Ratio: 1:4**

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### Apprentice - IRONWORKER - Local 37

#### Effective Date: 09/16/2019

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**Notes:**

Apprentice to Journeyworker Ratio: 1:4

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### JACKHAMMER & PAVING BREAKER OPERATOR

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For apprentice rates see "Apprentice - LABORER"

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### Notes:
Apprentice to Journeyworker Ratio: 1:5

#### LABORER: CARPENTER TENDER - LABORS - ZONE 2

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For apprentice rates see "Apprentice - LABORER"

#### LABORER: CEMENT FINISHER TENDER - LABORS - ZONE 2

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For apprentice rates see "Apprentice - LABORER"

#### LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER - LABORS - ZONE 2

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For apprentice rates see "Apprentice - LABORER"

#### LABORER: MASON TENDER - LABORS - ZONE 2

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For apprentice rates see "Apprentice - LABORER"
For apprentice rates see "Apprentice- LABORER"

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For apprentice rates see "Apprentice- LABORER".

| LABORER: TREE REMOVER                  | 06/01/2019     | $33.95    | $7.85  | $14.88  | $0.00        | $56.68     |
| LABORERS - ZONE 2                      | 12/01/2019     | $34.81    | $7.85  | $14.88  | $0.00        | $57.54     |
|                                        | 06/01/2020     | $35.70    | $7.85  | $14.88  | $0.00        | $58.43     |
|                                        | 12/01/2020     | $36.59    | $7.85  | $14.88  | $0.00        | $59.32     |
|                                        | 06/01/2021     | $37.51    | $7.85  | $14.88  | $0.00        | $60.24     |
|                                        | 12/01/2021     | $38.42    | $7.85  | $14.88  | $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                    | 06/01/2019     | $34.20    | $7.85  | $14.88  | $0.00        | $56.93     |
| LABORERS - ZONE 2                      | 12/01/2019     | $35.06    | $7.85  | $14.88  | $0.00        | $57.79     |
|                                        | 06/01/2020     | $35.95    | $7.85  | $14.88  | $0.00        | $58.68     |
|                                        | 12/01/2020     | $36.84    | $7.85  | $14.88  | $0.00        | $59.57     |
|                                        | 06/01/2021     | $37.76    | $7.85  | $14.88  | $0.00        | $60.49     |
|                                        | 12/01/2021     | $38.67    | $7.85  | $14.88  | $0.00        | $61.40     |

For apprentice rates see "Apprentice- LABORER".

| MARBLE & TILE FINISHERS                | 08/01/2019     | $41.49    | $10.75 | $19.61  | $0.00        | $71.85     |
| BRICKLAYERS LOCAL 3 - MARBLE & TILE   | 02/01/2020     | $42.00    | $10.75 | $19.61  | $0.00        | $72.36     |
|                                        | 08/01/2020     | $43.08    | $10.75 | $19.76  | $0.00        | $73.59     |
|                                        | 02/01/2021     | $43.59    | $10.75 | $19.76  | $0.00        | $74.10     |
|                                        | 08/01/2021     | $44.71    | $10.75 | $19.92  | $0.00        | $75.38     |
|                                        | 02/01/2022     | $45.18    | $10.75 | $19.92  | $0.00        | $75.85     |
## Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile

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### Notes:

- Apprentice to Journeyworker Ratio: 1:3

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### Apprentice - Marble-Tile-Terrazzo Mechanic - Local 3 Marble & Tile

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**Notes:**

- **Apprentice to Journeyworker Ratio**: 1:5

**For apprentice rates see "Apprentice - OPERATING ENGINEERS"**

**Mech. Sweeper Operator (On Const. Sites)**

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**For apprentice rates see "Apprentice - OPERATING ENGINEERS"**

**Mechanics Maintenance**

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**For apprentice rates see "Apprentice - OPERATING ENGINEERS"**

**Millwright (Zone 2)**

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### Apprentice - MILLWRIGHT - Local 1121 Zone 2

**Effective Date - 04/01/2019**

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**Notes:**
- Steps are 2,000 hours

**Apprentice to Journeyworker Ratio: 1:5**

### MORTAR MIXER

**LABORERS - ZONE 2**

06/01/2019 $34.20 $7.85 $14.88 $0.00 $56.93
12/01/2019 $35.06 $7.85 $14.88 $0.00 $57.79
06/01/2020 $35.95 $7.85 $14.88 $0.00 $58.68
12/01/2020 $36.84 $7.85 $14.88 $0.00 $59.57
06/01/2021 $37.76 $7.85 $14.88 $0.00 $60.49
12/01/2021 $38.67 $7.85 $14.88 $0.00 $61.40

For apprentice rates see "Apprentice - LABORER"

### OILER (OTHER THAN TRUCK CRANES, GRADALLS)

**OPERATING ENGINEERS LOCAL 4**

06/01/2019 $23.11 $12.00 $15.60 $0.00 $50.71
12/01/2019 $23.68 $12.00 $15.60 $0.00 $51.28
06/01/2020 $24.23 $12.00 $15.60 $0.00 $51.83
12/01/2020 $24.80 $12.00 $15.60 $0.00 $52.40
06/01/2021 $25.35 $12.00 $15.60 $0.00 $52.95
12/01/2021 $25.93 $12.00 $15.60 $0.00 $53.53

For apprentice rates see "Apprentice - OPERATING ENGINEERS"

### OILER (TRUCK CRANES, GRADALLS)

**OPERATING ENGINEERS LOCAL 4**

06/01/2019 $27.57 $12.00 $15.60 $0.00 $55.17
12/01/2019 $28.24 $12.00 $15.60 $0.00 $55.84
06/01/2020 $28.89 $12.00 $15.60 $0.00 $56.49
12/01/2020 $29.57 $12.00 $15.60 $0.00 $57.17
06/01/2021 $30.21 $12.00 $15.60 $0.00 $57.81
12/01/2021 $30.89 $12.00 $15.60 $0.00 $58.49

For apprentice rates see "Apprentice - OPERATING ENGINEERS"

### OTHER POWER DRIVEN EQUIPMENT - CLASS II

**OPERATING ENGINEERS LOCAL 4**

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06/01/2020 $49.91 $12.00 $15.60 $0.00 $77.51
12/01/2020 $51.05 $12.00 $15.60 $0.00 $78.65
06/01/2021 $52.14 $12.00 $15.60 $0.00 $79.74
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"  

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Issue Date: 11/01/2019  Wage Request Number: 20191101-018
### Apprentice - *PAINTER Local 35 - BRIDGES/TANKS*

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**Notes:**

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

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PAINTER (SIGN, PICTORIAL & DISPLAY)

*PAINTERS LOCAL 35 - ZONE 2*

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## Apprentice - PAINTER SIGN - Local 35 Zone 2

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### Notes:
- Steps are 4 mos.
- Apprentice to Journeyworker Ratio: 1:1

**PAINTER (SPRAY OR SANDBLAST, NEW) *
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.**

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**Notes:**
- Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:** 1:1

**Painter (Spray or Sandblast, Repaint)**

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### Apprentice - Painter Local 35 Zone 2 - Spray/Sandblast - Repaint

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### Notes:
- Steps are 750 hrs.

### Apprentice to Journeyworker Ratio: 1:1

**PAINTER (TRAFFIC MARKINGS)**

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For Apprentice rates see "Apprentice - LABORER"

**PAINTER / TAPER (BRUSH, NEW) * **

* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. **PAINTERS LOCAL 35 - ZONE 2**

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**Notes:**
- Steps are 750 hrs.
- Apprentice to Journeyworker Ratio: 1:1

### PAINTER / TAPER (BRUSH, REPAINT)

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**Effective Date** - 01/01/2020

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**Notes:**

Steps are 750 hrs.

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**Apprentice to Journeyworker Ratio:** 1:1

**PILE DRIVER LOCAL 56 (ZONE 2)**

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**TOTAL:** $124.11

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

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**TOTAL:** $124.11

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**PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)**

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$21.15    $0.00 | $75.66
### Apprentice - **PILE DRIVER - Local 56 Zone 2**  
**Effective Date:** 08/01/2019

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**Notes:** Apprentice wages shall be no less than the following Steps:  
(Same as set in Zone 1)  
1$54.34/2$58.99/3$63.65/4$65.98/5$68.31/6$68.31/7$72.96/8$72.96

**Apprentice to Journeyworker Ratio:** 1:5

### PIPELAYER  
LABORERS - ZONE 2  
**Effective Date:** 06/01/2018

| 1    | 40      | $16.82               | $10.00 | $2.50   | $0.00        | $29.32     |
| 2    | 50      | $21.02               | $10.00 | $2.50   | $0.00        | $33.52     |
| 3    | 60      | $25.22               | $10.00 | $7.85   | $0.00        | $43.07     |
| 4    | 70      | $29.43               | $10.00 | $12.56  | $0.00        | $51.99     |
| 5    | 80      | $33.63               | $10.00 | $15.70  | $0.00        | $59.33     |

**Notes:**  
Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

**Apprentice to Journeyworker Ratio:** 1:3

### PLUMBER & PIPEFITTER  
PLUMBERS & PIPEFITERS LOCAL 51  
**Effective Date:** 09/01/2018

| 1    | 40      | $16.82               | $10.00 | $2.50   | $0.00        | $29.32     |
| 2    | 50      | $21.02               | $10.00 | $2.50   | $0.00        | $33.52     |
| 3    | 60      | $25.22               | $10.00 | $7.85   | $0.00        | $43.07     |
| 4    | 70      | $29.43               | $10.00 | $12.56  | $0.00        | $51.99     |
| 5    | 80      | $33.63               | $10.00 | $15.70  | $0.00        | $59.33     |

**Notes:**  
Apprentice wages shall be no less than the following Steps;  
(Same as set in Zone 1)  
1$54.34/2$58.99/3$63.65/4$65.98/5$68.31/6$68.31/7$72.96/8$72.96

**Apprentice to Journeyworker Ratio:** 1:5

### PNEUMATIC CONTROLS (TEMP.)  
PLUMBERS & PIPEFITERS LOCAL 51  
**Effective Date:** 09/01/2018

| 1    | 40      | $16.82               | $10.00 | $2.50   | $0.00        | $29.32     |
| 2    | 50      | $21.02               | $10.00 | $2.50   | $0.00        | $33.52     |
| 3    | 60      | $25.22               | $10.00 | $7.85   | $0.00        | $43.07     |
| 4    | 70      | $29.43               | $10.00 | $12.56  | $0.00        | $51.99     |
| 5    | 80      | $33.63               | $10.00 | $15.70  | $0.00        | $59.33     |

**Notes:**  
Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

**Apprentice to Journeyworker Ratio:** 1:3

### PNEUMATIC DRILL/TOOL OPERATOR  
LABORERS - ZONE 2  
**Effective Date:** 06/01/2019

| 1    | 40      | $16.82               | $10.00 | $2.50   | $0.00        | $29.32     |
| 2    | 50      | $21.02               | $10.00 | $2.50   | $0.00        | $33.52     |
| 3    | 60      | $25.22               | $10.00 | $7.85   | $0.00        | $43.07     |
| 4    | 70      | $29.43               | $10.00 | $12.56  | $0.00        | $51.99     |
| 5    | 80      | $33.63               | $10.00 | $15.70  | $0.00        | $59.33     |

**Notes:**  
Apprentice wages shall be no less than the following Steps;  
(Same as set in Zone 1)  
1$54.34/2$58.99/3$63.65/4$65.98/5$68.31/6$68.31/7$72.96/8$72.96

**Apprentice to Journeyworker Ratio:** 1:5
For apprentice rates see "Apprentice- LABORER"
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**Notes:**
- *Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.
- (Hot Pitch Mechanics' receive $1.00 hr. above ROOFER)

---

**Apprentice - ROOFER: Local 33**

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**Notes:**
- **1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1**
- *Apprentice to Journeyworker Ratio:**

---

**Apprentice - ROOFER (Inc.Roofer Waterproof & Roofer Damproof) Local 33**

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**Notes:**
- *For apprentice rates see "Apprentice- ROOFER"*

---

**ROLLER/SPREADER/MULCHING MACHINE**

*Operating Engineers Local 4*

---

**ROOFER SLATE / TILE / PRECAST CONCRETE**

*Operating Engineers Local 33*
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Notes: 
Apprentice to Journeyworker Ratio: 1:3

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

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SPECIALIZED EARTH MOVING EQUIP > 35 TONS
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SPRINKLER FITTER
SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2

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**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

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**STEAM BOILER OPERATOR**  
OPERATING ENGINEERS LOCAL 4

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For apprentice rates see "Apprentice - OPERATING ENGINEERS"

**TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN**  
OPERATING ENGINEERS LOCAL 4

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**Notes:** See Electrician Apprentice Wages

Steps are 750hrs

Telecom Apprentice Wages shall be the same as the Electrician Apprentice Wages

Apprentice to Journeyworker Ratio: 2:3

### TERRAZZO FINISHERS

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### Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

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**Notes:**

Apprentice to Journeyworker Ratio: 1:3
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For apprentice rates see "Apprentice- LABORER"
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For apprentice rates see "Apprentice- LABORER"

| TUNNEL WORK - FREE AIR LABORERS (FREE AIR TUNNEL) | 06/01/2019     | $43.45    | $7.85  | $16.45  | $0.00        | $67.75     |
|                                                 | 12/01/2019     | $44.45    | $7.85  | $16.45  | $0.00        | $68.75     |
|                                                 | 06/01/2020     | $45.44    | $7.85  | $16.45  | $0.00        | $69.74     |
|                                                 | 12/01/2020     | $46.42    | $7.85  | $16.45  | $0.00        | $70.72     |
|                                                 | 06/01/2021     | $47.44    | $7.85  | $16.45  | $0.00        | $71.74     |
|                                                 | 12/01/2021     | $48.45    | $7.85  | $16.45  | $0.00        | $72.75     |

For apprentice rates see "Apprentice- LABORER"

| TUNNEL WORK - FREE AIR (HAZ. WASTE) LABORERS (FREE AIR TUNNEL) | 06/01/2019     | $45.45    | $7.85  | $16.45  | $0.00        | $69.75     |
|                                                              | 12/01/2019     | $46.45    | $7.85  | $16.45  | $0.00        | $70.75     |
|                                                              | 06/01/2020     | $47.44    | $7.85  | $16.45  | $0.00        | $71.74     |
|                                                              | 12/01/2020     | $48.42    | $7.85  | $16.45  | $0.00        | $72.72     |
|                                                              | 06/01/2021     | $49.44    | $7.85  | $16.45  | $0.00        | $73.74     |
|                                                              | 12/01/2021     | $50.45    | $7.85  | $16.45  | $0.00        | $74.75     |

For apprentice rates see "Apprentice- LABORER"

| VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 ZONE B | 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 | 06/01/2019     | $34.20    | $7.85  | $14.88  | $0.00        | $56.93     |
|                                       | 12/01/2019     | $35.06    | $7.85  | $14.88  | $0.00        | $57.79     |
|                                       | 06/01/2020     | $35.95    | $7.85  | $14.88  | $0.00        | $58.68     |
|                                       | 12/01/2020     | $36.84    | $7.85  | $14.88  | $0.00        | $59.57     |
|                                       | 06/01/2021     | $37.76    | $7.85  | $14.88  | $0.00        | $60.49     |
|                                       | 12/01/2021     | $38.67    | $7.85  | $14.88  | $0.00        | $61.40     |

For apprentice rates see "Apprentice- LABORER"

| WASTE WATER PUMP OPERATOR OPERATING ENGINEERS NO. 10 ZONE 6 | 06/01/2019     | $48.18    | $12.00 | $15.60  | $0.00        | $75.78     |
|                                                            | 12/01/2019     | $49.33    | $12.00 | $15.60  | $0.00        | $76.93     |
|                                                            | 06/01/2020     | $50.43    | $12.00 | $15.60  | $0.00        | $78.03     |
|                                                            | 12/01/2020     | $51.58    | $12.00 | $15.60  | $0.00        | $79.18     |
|                                                            | 06/01/2021     | $52.68    | $12.00 | $15.60  | $0.00        | $80.28     |
|                                                            | 12/01/2021     | $53.83    | $12.00 | $15.60  | $0.00        | $81.43     |

For apprentice rates see "Apprentice- OPERATING ENGINEERS"
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For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"
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, 1:2, 1:3, 1:4, 1:5, 1:6, 1:7, 1:8, 1:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

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

➢ The enclosed wage schedule applies only to the specific project listed at the top and will be updated for any public construction project lasting longer than one (1) year.

➢ You should request an updated wage schedule from the Division of Occupational Safety if you have not opened bids or selected a contractor within 90 days of the date of issuance of the enclosed wage schedule.

➢ The wage schedule shall be incorporated in any advertisement or call for bids for the project for which it has been issued.

➢ Once a contractor has been selected by the awarding authority, the wage schedule shall be made a part of the contract for that project.

NOTICE TO CONTRACTORS

➢ The enclosed wage schedule, and any updated schedule, must be posted in a conspicuous place at the work site during the life of the project.

➢ The wages listed on the enclosed wage schedule must be paid to employees on public works projects regardless of whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.

➢ The enclosed wage schedule applies to all phases of the project including the final clean-up. Contractors whose only role is to perform final clean-up must pay their employees according to this wage schedule.

➢ All apprentices must be registered with the Massachusetts Division of Apprentice Training in order to be paid at the reduced apprentice rates. If a worker is not registered with the Division of Apprentice Training, they must be paid the “total rate” listed on the wage schedule regardless of experience or skill level. For further information, please call (617) 727-3486 or write to the Division of Apprentice Training, 399 Washington Street, 4th Floor, Boston, MA 02108.
WEEKLY PAYROLL RECORDS REPORT
& STATEMENT OF COMPLIANCE

In accordance with Massachusetts General Law c149, §27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided. A Payroll Form has been printed on the reverse of this page and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

In addition, every contractor and subcontractor is required to submit a copy of their weekly payroll records to the awarding authority. This is required to be done on a weekly basis. Once collected, the awarding authority is also required to preserve those records for three years.

In addition, each such contractor, subcontractor or public body shall furnish to the Department of Labor & Workforce Development/Division of Occupational Safety within fifteen days after completion of its portion of the work a statement, executed by the contractor, subcontractor or public body who supervises the payment of wages, in the following form:

STATEMENT OF COMPLIANCE

____________________, 2018

I, ____________________________, ____________________________
(Name of signatory party) (Title)
do hereby state:
That I pay or supervise the payment of the persons employed by
____________________ on the ____________________________
(Contractor, subcontractor or public body) (Building or project)
and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty nine of the General Laws.

Signature ____________________________

Title ____________________________

DIVISION OF OCCUPATIONAL SAFETY, 399 WASHINGTON STREET, 5TH FL., BOSTON, MA. 02108