ITEMIZED PROPOSAL WITH
SPECIAL PROVISIONS

Lenox Community Center Ice Rink & Related Work

65 Walker Street
Lenox, MA

This Proposal to be Opened and Read on:
Thursday, July 10, 2025 at 2:00 PM

at the office of:
Town Manager
Lenox Town Hall
65 Walker Street
Lenox, MA 01240

Pre-Bid Conference on:
Tuesday, July 1, 2025 @ 2:00 PM
Meet at Old Center Street (next to the Tennis Courts)

Submit proposal in sealed envelope marked
"Lenox Community Center Ice Rink & Related Work"

All questions regarding this proposal must be submitted in writing via email to mmessana@foresightland.com no later than July 3, 2025 by 4:00 PM.

Prepared By: ***FORESIGHT LAND SERVICES, INC.***
1496 West Housatonic Street
Pittsfield, MA 01201

FLS Project# E2907

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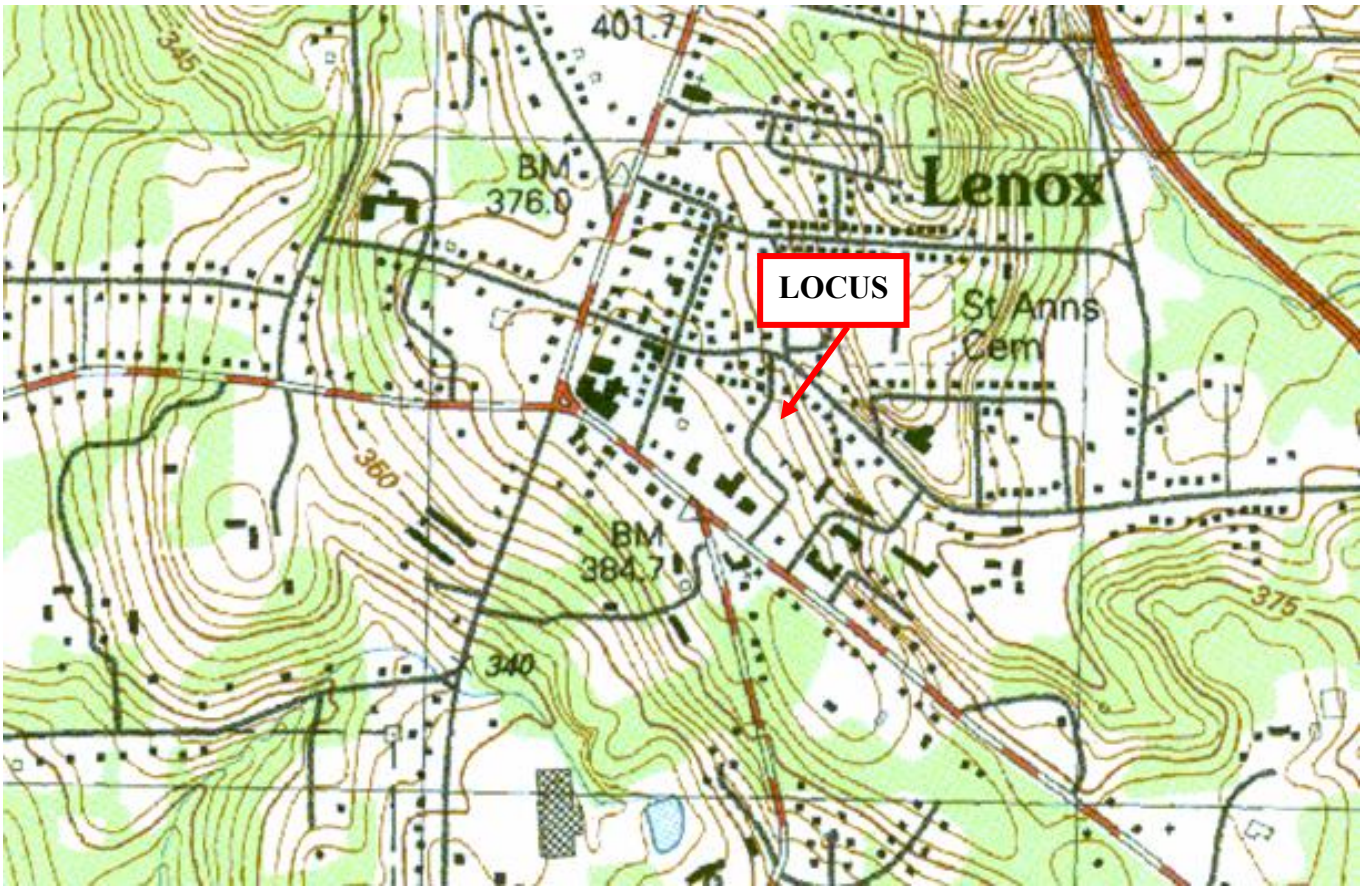
65 Walker Street, Lenox, MA

UNITED STATES GEOLOGICAL SURVEY MAP



N.T.S.

FORESIGHT LAND SERVICES, INC.
ENGINEERING • SURVEYING • PLANNING
1496 West Housatonic Street
Pittsfield, MA 01201

Exhibit A-1
USGS Stockbridge QUAD, 1987 ed.
Source MASSGIS

Lenox Community Center Ice Rink & Related Work
65 Walker Street Lenox, MA

TOWN OF LENOX
INVITATION TO BID

The Town of Lenox, acting through its Department of Public Works, invites sealed bids from contractors approved by the Massachusetts Department of Transportation for the **Lenox Community Center Ice Rink & Related Work** project. The work to be performed includes installation of a refrigerated portable ice rink (44' x 80') over the existing multi-use court, electric service, concrete chiller pad, water filler station, benches, and related work.

A Bid Proposal Package for this project, which contains detailed specifications, bid form, and other pertinent information is available electronically starting Wednesday, June 18th, 2025 @ 2:00pm by email request with company name, address, and phone # included to: mmessana@foresightland.com.

Sealed bids are due at the Lenox Town Hall, 6 Walker Street, Lenox, MA 01240 by 2:00 PM on **Thursday, July 10th, 2025** at which time they will be publicly opened and read aloud.

MassDOT prequalification of contractors with the class of work as, Recreational Facilities, for the project with an estimated value of $228,000.00, will be entitled to bid on this project. Prospective bidders should only submit a bid that is within the limit which they are pre-qualified for by MassDOT. Bids submitted that exceed the contractor's qualified limit per MassDOT will not be accepted. A detailed summary of such projects recently completed or underway, with owner contact information, must be included with the sealed bid.

The work under this contract shall be subject to the provisions of Chapter 30, Section 39M of the Massachusetts General Laws. Wages are subject to Massachusetts's minimum wage rates as required by M.G.L. Chapter 149. All applicable federal, state and local laws, regulations and rules shall be observed.

The Town of Lenox reserves the right to accept or reject any and all bids, in whole or in part, to waive any informality in the bids received, and to accept the bid deemed to be most favorable to the best interest of the Town. The bidder agrees that its bid shall be good and not withdrawn for a period of thirty (30) days, Saturdays, Sundays, and legal holidays excluded after the date of opening the bids.

William Gop
Department of Public Works Superintendent
Town of Lenox

LISTING OF PAY ITEMS

#	ITEM	UNIT
1	Unclassified Excavation	Cubic Yard
2	Class B Rock Excavation	Cubic Yard
3	Gravel Borrow for Backfilling Structures & Pipes	Cubic Yard
4	Crushed Stone	Cubic Yard
5	Concrete Pads – Chillers & Water Filler	Square Yard
6	HMA for Water Service Connection	Ton
7	2” SCH 80 Electric Service Conduit, Bedding & Backfill	Linear Foot
8	3” SCH 80 Electric Service Conduit, Bedding & Backfill	Linear Foot
9	Water Service Assembly with Branch Tee to Yard Hydrant	Each
10	Water Meter Assembly	Each
11	Water Filling Station	Each
12	Yard Hydrant – Frost Free	Each
13	Aluminum Bench	Each
14	Trash & Recycling Receptacles with Stone Base	Each
15	Portable Refrigerated Ice Rink (44’ x 80’) – Complete in Place with Chillers, Foam Leveling and Protection Over Court	Each
16	Erosion, Sedimentation & Dust Control	Lump Sum
17	Loam, HydroSeed, Straw Mulch & Clean Up	Lump Sum
18	Safety Controls for Construction Operations	Lump Sum
19	Traffic Control Services	Allowance
20	Testing Services	Allowance
21	Electrician Services (Meter Install, Wiring, & Connection to Chiller)	Allowance

The foregoing Notice to Contractors, a copy of which has been published or posted according to law, and the "**GENERAL REQUIREMENTS AND COVENANTS**" under Division 1 of the 2025 Standard Specifications for Highways and Bridges, as amended, shall constitute the "Instructions to Bidders". Attention is directed particularly to the following quotations from these sections which govern the preparation and submission of proposals.

Where the words *commission, owner, department, MHD, Mass DOT, municipality or engineer* are used herein, they shall be construed to mean the Massachusetts Department of Transportation, the Town of Lenox Board of Selectmen, the Town of Lenox, and/or authorized agents of the Town, as the context requires.

SECTION 2.00
PROPOSAL REQUIREMENTS AND CONDITIONS

2.01 Proposal Forms and Plans

A. Prequalification Prior to Requesting Proposal Forms

Subject to the requirements of Chapter 29, Section 8B of the General Laws, each prospective Bidder proposing to bid on any work, excepting the construction, reconstruction, repair or alteration of buildings, to be awarded by the Department or by a municipality under the provisions of Section 34 of Chapter 90, must be prequalified in accordance with 720 CMR 5.00, "Prequalification of Contractors", if the amount of the proposal added to the value of the uncompleted work already under contract with the Department will aggregate $50,000 or more.

For work aggregating under $50,000, prequalification is desirable but not required.

B. Issuance of Proposal Forms and Plans

All prospective Bidders, who intend to bid on work to be awarded by the Department, may obtain plans and specifications from the Department at the place specified in the Notice to Contractors.

For projects to be awarded under the provisions of Section 34, Chapter 90 of the General Laws, bidders may obtain plans and specifications from the applicable municipality at the place specified in the Notice to Contractors.

Only a prequalified bidder shall be entitled to receive an officially numbered non-transferable Proposal Pamphlet along with a set of plans for the project (if required). Informational copies of plans and specifications are available to non-prequalified individuals and firms.

Payment of the specified fee is required prior to receipt of plans and specifications from the Department. The amount will be refunded to only those who submit a formal bid for the project within the time stipulated on the proposal form furnished by the Department, provided the Notice to Contractors so specifies and further provided that the plans are returned in good condition within one week from the date of bid opening, or to a common

carrier or the post office department not later than the Friday following bid opening for subsequent delivery to the Department.

Except for projects for which Prequalification is not required under 720 CMR 5.04 (2), proposals for a project shall be limited to those bidders who have been Prequalified by the Prequalification Committee in the specified class of work on or before the time of bid opening, and who have not exceeded the Aggregate Bonding Capacity established by the bidder's surety company, and who have, if applicable, a Single Project Limit in an amount equal to or in excess of the Proposal amount, and who are otherwise in compliance with these regulations.

Official Proposal Books shall contain an officially numbered non-transferable, itemized proposal form specifying the location and description of the contemplated work; the approximate estimates of the various quantities of work to be performed and materials to be furnished; the time in which the work must be completed; and also a Notice to Contractors and Special Provisions or requirements for the particular project. The prospective Bidder shall also be entitled to a set of project plans and profiles, either full size or reduced size at the option of the Department, and detail sheets showing the preliminary estimate of quantities with information pertinent thereto.

No municipality may award a contract until the Department has determined that the bidder was prequalified in the specified class of work on or before the time of bid opening, and has not exceeded the Aggregate Bonding Capacity established by the bidder's surety company, and has, if applicable, a Single Project Limit in an amount equal to or in excess of the Proposal amount, and is otherwise in compliance with 720 CMR 5.00, "Prequalification of Contractors".

2.02 Interpretation of Basic Estimate of Quantities

A. All bids will be compared on the estimate of quantities of work to be done, as shown in the Proposal.

The parties expressly agree that these quantities are being set forth as a basis for the comparison of bids only and the parties expressly agree that the actual amount of work may not correspond therewith. The Department expressly reserves the right to adjust said quantities in accordance with actual conditions as found to exist during the course of work.

Bidders agree to submit their estimate upon the following express condition, which shall apply to and become part of every bid received, viz.:

An increase or decrease in the quantity for any item shall not be regarded as cause for an increase or decrease in the contract unit prices, nor in the time allowed for the completion of the work, except as provided in the Contract. (Also see Subsections 4.06 and 9.03.)

B. The excavation, masonry and other parts of the work have been divided into classes and items in order to enable the Bidder to bid on the different portions of the work in accordance with his/her estimate of their cost, so that in the event of an increase or decrease in the quantities of any particular class of work the actual quantities

executed shall be paid for at the price bid for that particular class of work, (except in structures bid as a lump sum item where the payment for an increase or decrease in the quantities of concrete will be adjusted as stipulated in Section 995).

2.03 Examination of Plans, Specifications, Special Provisions, and Site of Work

The Department will prepare plans and specifications giving directions that will enable any competent mechanic or contractor to carry them out. The Bidder is expected to examine carefully the site of the proposed work, the proposal, plans, specifications, supplemental specifications, special provisions, and contract forms, before submitting a Proposal. The submissions of a bid shall be considered prima facie evidence that the Bidder has made such examination of the site of the proposed work, plans, proposal, etc., and is familiar with the conditions to be encountered in performing the work and as to the requirements of the plans, specifications, supplemental specifications, special provisions, and Contract.

2.04 Preparation of Proposals

A. Bid Prices

The Bidder shall submit his/her proposal upon the blank forms furnished by, or approved by the Department. The Bidder shall specify a unit price, in both words and figures, for each item for which a quantity is given, and shall also show the products of the respective unit prices and quantities written in figures in the column provided for that purpose, and the total amount of the proposal obtained by adding the amounts of the several items. All words and figures shall be in ink. In case of a discrepancy between the unit prices written in words and unit prices written in figures, the written words shall govern. In the event the bidder fails to enter a price for a particular bid item, the Department will consider the amount bid to be zero.

When an item in the Proposal contains a choice to be made by the Bidder, the Bidder shall indicate his/her choice in accordance with the specifications for that particular item, and thereafter no further choice will be permitted.

The price for any item, bid and contracted for, unless otherwise noted or specified, shall include full compensation for all materials, equipment, tools, labor and incidental work, necessary to complete the item to the satisfaction of the Engineer. The prices without exception, shall be net, not subject to discount, and shall include all royalties and costs arising from patents, trade marks, and copyrights in any way involved in the work.

B. Signatures

All Proposals shall be signed correctly with ink in the proper place provided, as follows:

If the Proposal is made by an individual, the name and post office address shall be stated.

If the Proposal is made by a firm, partnership or corporation, it shall be signed by a person having such legal authority from the said firm, partnership or corporation and the person so signing the Proposal shall give his/her own name and title (if any) in addition to

the name and address of the firm, partnership or corporation. If the Proposal is made by a firm or partnership, the names and addresses of the individual members shall be given.

If the Proposal is made by a corporation, the name of the State under the Laws of which the corporation was chartered and the names, titles and business addresses of the President, Treasurer and clerk shall be given.

If a Proposal is made by two or more individuals, partnerships, or corporations, or any combination of these as a joint venture, each party joining to make the Proposal shall submit attached to and made apart of the Proposal all information and all signatures in compliance with the foregoing provisions applicable to an individual, firm, partnership or corporation. In addition, if any of the joint venture are a corporation, an attested copy of the vote of the corporation authorizing such joint venture shall be attached to the Proposal.

C. Affidavits

The Bidders shall file a sworn statement executed by or on behalf of the person, firm, association or corporation submitting the bid, certifying that such person, firm, association or corporation has not, either directly or indirectly, entered into an agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This sworn statement shall be in the form of an affidavit sworn to under the pains and penalties of perjury. The required form for the affidavit will be provided with the Proposal. Failure to submit the sworn statement on the required form as part of the bid approval package shall make the bid informal as to substance and not eligible for award consideration.

2.05 Delivery of Proposals

The Bidder shall submit, prior to the time set for opening of the bid, his/her Proposal in properly sealed and labeled envelopes, delivered or mailed in accordance with the requirements herein.

2.06 Proposal Guaranty Required

In order to insure the faithful fulfillment of its terms, each Proposal shall be accompanied by a bid deposit in the amount of five percent (5%) of the bid.

The bid deposit shall be a bid bond in a form satisfactory to the Party of the First Part furnished by a surety company incorporated pursuant to Chapter 175, Section 105 of the General Laws or authorized to do business in the Commonwealth under Chapter 175, Section 106 of the General Laws and satisfactory to the Party of the First Part; or cash; or a certified check drawn on a responsible bank or trust company (or a treasurer's or cashier's check issued by such bank or trust company), payable to the Party of the First Part.

The bid deposit will be returned to the Bidder unless retained by the Party of the First Part under conditions hereinafter stipulated.

2.07 Withdrawal of Proposals

A Bidder may withdraw his/her Proposal provided the request in writing is in the hands of the Engineer by the time set for opening Proposals. When such proposal is reached during the opening of the bids, it will be returned to the bidder unread.

2.08 Public Opening of Proposals

Proposals will be opened and the total price of each bid read publicly at the time and place indicated in the "Notice to Contractors". Any person may at reasonable times, and in the presence of the Engineer, examine any or all Proposals after they have been opened and read.

2.09 Rejection of Proposals

Proposals which fail to meet the requirements of Subsections 2.04, 2.05 and 2.06 or which are incomplete, conditional or obscure, or which contain additions not called for, erasures, alterations or irregularities of any kind, or in which errors occur, or which contain abnormally high or abnormally low prices for any class or item of work, may be declared informal, provided however that the Commission may, if it deems it to be in the public interest, waive any or all informalities as to form. Informalities as to substance, however, shall not be waived.

More than one Proposal from the same Bidder, whether or not the same or different names appear on the signature page, will not be considered. Reasonable proof for believing that any Bidder is so interested in more than one Proposal for the work contemplated will cause the rejection of all Proposals made by him directly or indirectly. Any Proposals will be rejected if there is reason for believing that collusion exists among the Bidders. (See Subsection 3.01).

In accordance with 720 CMR 5.00, Proposals may also be rejected if:

(i) award of the contract would result in the bidder exceeding the Aggregate Bonding Capacity established by its Surety Company, or the bidder's Proposal exceeds its single project limit, or the bidder was not prequalified in the specified class of work on or before the time of bid opening.

(ii) the bidder is presently debarred from performing work of any kind under the provisions of M.G.L. c. 29, Section 29F, or any other applicable debarment provisions of the Massachusetts General Laws or any rule or regulation promulgated thereunder; or

(iii) the bidder is presently debarred from performing work of any kind under the laws of any state other than the Commonwealth of Massachusetts, or by any Federal agency or authority; or

(iv) there is substantial reason to believe that the condition of the bidder's firm is less favorable than at the time of its last Application for Prequalification; or

(v) the bidder does not have sufficient equipment, or sufficient assets to provide necessary equipment either through purchase or lease agreements; or

(vi) the bidder's performance on past or current work with the Department or other awarding authorities is or has been unsatisfactory; or

(vii) on current projects of the Department or other public authorities the bidder frequently fails or has failed to pay its subcontractors or material suppliers in a

timely manner, or that five (5) or more subcontractors or material suppliers of the Contractor for a project currently under construction have filed demands for direct payment with the project's awarding authority in accordance with M.G.L. chapter 30, Section 39F; or

(viii) the bidder is not otherwise an eligible and responsible bidder capable of performing the work.

2.10 Disqualification of Bidders

Bidders whose Proposals have been rejected because of evidence of collusion, may be subject to debarment under applicable provisions of state and federal law.

2.11 Determination of Lowest Bid

The lowest bid shall be determined by the Department on the basis of the total price for which the entire work will be performed, arrived at by a correct computation of all the items specified in the Proposal at their estimated quantities and the unit prices submitted therefore.

2.12 Material Guaranty

Before any Contract is awarded, the Bidder may be required to furnish, without expense to the Department, a complete statement of the origin, composition and manufacture of any or all materials proposed to be used in the construction of the work, together with samples, which may be subjected to the tests required by the Department to determine the quality and fitness of the material.

SECTION 3.00
AWARD AND EXECUTION OF THE CONTRACT

3.01 Consideration of Proposals

The party of the First Part reserves the right to reject any and all bids, or any bid item, to advertise for new Proposals for the project, to waive technicalities, to waive informalities as to form, or to proceed to do the work otherwise, as may be deemed to be in the best interest of the Department.

Nothing herein shall be construed as depriving the Highway Commission of the right to reject any bid when such bid does not fully comply with the specifications for the project or the applicable public bidding law or regulations, or the Contractor is otherwise not eligible or responsible to receive award of the contract.

A proposal will be considered irregular and will be rejected if it is determined that any of the unit prices are materially unbalanced to the detriment of the Department. The bidder will be required to justify in writing the price or prices bid for the work in question before the Department decides to award the contract or reject the bid.

3.02 Award of Contract

Subject to the reservations in Subsection 3.01, the Contract will be awarded to the lowest eligible and responsible Bidder.

It is anticipated that the Contract will be awarded within 30 days after the opening of bids, or, for projects requiring concurrence by the FHWA, or other Agencies, within 45 days after the opening of bids.

The successful bidder will be notified by mail or otherwise that his/her bid has been accepted and that he has been awarded the Contract.

Award of this contract is subject to availability of Town funds. Town reserves the right to accept or reject any or all of the work subject to availability of Town funds.

3.03 Retention of Proposal Guaranty

The two lowest Bidders shall keep their bids open for at least 30 days after the opening of bids, or, for projects requiring concurrence by the FHWA, or other Agencies, for at least 45 days after the opening of bids. The Proposal guaranties of the two lowest Bidders will be retained until after execution of the Contract, prior to which, however, either Bidder may substitute a bid bond, cash or certified check (or cashier's or treasurer's check), all as described in Subsection 2.06, for the guaranty already deposited. The Department will endeavor to return the Proposal guaranties of all Bidders other than the two lowest Bidders within three days after the opening of bids.
After the bid has been kept open for the required number of days the low Bidder may withdraw his/her bid and request the return of his/her proposal guaranty, in which case the guaranty of both the two lowest Bidders will be returned and the second lowest Bidder's Proposal shall not be considered for award. After the bid has been kept open for the required number of days the second lowest Bidder may withdraw his/her bid and request the return of his/her proposal guaranty, in which case only the proposal guaranty of the second lowest Bidder will be returned.

3.04 Contract Bonds Required

A. A Performance Bond in the full amount of the Contract will be required by the Party of the First Part to ensure the faithful performance of the Contract, including Subsection 7.18.

B. A Payment Bond in an amount of the contract price will be required to be furnished by the Contractor to the Party of the First Part as security for payment by the Contractor and Subcontractors for labor, materials, rental equipment and for such other purposes as are more specifically set forth in General Laws, Chapter 149, Section 29 and Chapter 30, Section 39A and all amendments thereto.

The payment bond referred to in Chapter 149, Section 29 and Chapter 30, Section 39A is the sole security under said sections for payment by the Contractor and Subcontractor for labor performed or furnished and materials used or employed therein; said security to remain in force until the validity of all such claims shall be

established and finally determined and if determined and established as valid, all such claims shall be paid by the surety.

The Performance Bond and the Payment Bond shall be in a form satisfactory to the Party of the First Part, furnished by a surety company incorporated pursuant to Chapter 175, Section 105 of the General Laws or authorized to do business in the Commonwealth under Chapter 175, Section 106 of the General Laws and satisfactory to the awarding authority. The name of the agency or agent writing these bonds shall be identified with or on the bond.

All alterations, extensions of time, extra work and any other changes authorized under these specifications or under any part of the Contract may be made without obtaining the consent of the surety or sureties on the contract bonds.

3.05 Execution of Contract

The prepared Contract forms, bond forms and certificate of insurance forms will be sent with the notification of award to the successful Bidder who shall execute and deliver the Contract and furnish the required surety to the Department within 14 days after the date of the notice of award.

The Contract shall be in writing. When the Party of the First Part is the Commonwealth, the Contract shall be executed in duplicate, one of which duplicates shall be kept by the Department and one delivered to the Contractor. When the Party of the First Part is a municipality it shall be executed in triplicate, one of which triplicates shall be kept by the municipality, one delivered to the Department, and one delivered to the Contractor.

3.06 Failure to Execute Contract

Should the successful bidder fail to execute the contract and furnish the bonds and certificate of insurance within the time stipulated, the Party of the First Part may, at its option, determine that the Bidder has abandoned the Contract and thereupon the Proposal and acceptance shall be null and void. In accordance with M.G.L. chapter 30, Section 39M, the guaranty accompanying the Proposal may be retained and collected by the Party of the First Part as liquidated damages for the delay and expense caused by the abandonment of the Contract.

REQUIREMENTS OF MASSACHUSETTS GENERAL LAWS
CHAPTER 30, SECTION 39R

July 1, 1981

A.

1) The contractor shall make, and keep for at least six years after final payment, books, records, and accounts which in reasonable detail accurately and fairly reflect the transactions and dispositions of the contractor.

2) Until the expiration of six years after final payment, the awarding authority, office of inspector general, and the deputy commissioner of capital planning and operations shall have the right to examine any books, documents, papers or records of the contractor or of his/her subcontractors that directly pertain to, and involve transactions relating to, the contractor or his/her subcontractors.

3) If the agreement is a contract as defined herein, the contractor shall describe any change in the method of maintaining records or recording transactions which materially affect any statements filed with the awarding authority, including in his/her description the date of the change and reasons therefore, and shall accompany said description with a letter from the contractor's independent certified public accountant approving or otherwise commenting on the changes.

4) If the agreement is a contract as defined herein, the contractor shall file a statement of management on internal accounting controls as set forth in paragraph (B) below prior to the execution of the contract.

5) If the agreement is a contract as defined herein, the contractor shall file prior to the execution of the contract and will continue to file annually, an audited financial statement for the most recent completed fiscal year as set forth in paragraph (C) below.

B. Every contractor awarded a contract shall file with the awarding authority a statement of management as to whether the system or internal accounting controls of the contractor and its subsidiaries reasonably assures that:

1) Transactions are executed in accordance with management's general and specific authorization;

2) Transactions are recorded as necessary
   a. to permit preparation of financial statements in conformity with generally accepted accounting principles, and
   b. to maintain accountability for assets;

3) Access to assets is permitted only in accordance with management's general or specific authorization; and

4) The recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

Every contractor awarded a contract shall also file with the awarding authority a statement prepared and signed by an independent certified public accountant, stating that s/he has examined the statement of management on internal accounting controls, and expressing an opinion as to

a. whether the representations of management in response to this paragraph and paragraph (A) above are consistent with the result of management's evaluation of the system of internal accounting controls; and
b. whether such representations of management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the applicant's financial statement.

C. Every contractor awarded a contract by the commonwealth or by any political subdivision thereof shall annually file with the awarding authority during the term of the contract a financial statement prepared by an independent certified public accountant on the basis of audit by such accountant. The final statement filed shall include the date of final payment. All statements shall be accompanied by an accountant's report.

D. The office of inspector general, the deputy commissioner for capital planning and operations and any other awarding authority shall enforce the provisions of this section. The deputy commissioner of capital planning and operations may after providing an opportunity for the inspector general and other interested parties to comment, promulgate pursuant to the provisions of chapter thirty A such rules, regulations and guidelines as are necessary to effectuate the purposes of this section. Such rules, regulations and guidelines may be applicable to all awarding authorities. A contractor's failure to satisfy any of the requirements of this section may be grounds for disqualification pursuant to section forty-four C of Chapter one hundred and forty-nine.

Note: "Contract" means any contract awarded or executed pursuant to sections thirty B through thirty P, inclusive, of chapter seven and any contract awarded or executed pursuant to section thirty-nine M of Chapter thirty, or sections forty-four A through H, inclusive, of chapter one hundred and forty-nine, which is for an amount or estimated amount greater than one hundred thousand dollars.

THE COMMONWEALTH OF MASSACHUSETTS

SUPPLEMENTAL EQUAL EMPLOYMENT OPPORTUNITY, NON-DISCRIMINATION AND AFFIRMATIVE ACTION PROGRAM

ATTACHMENT

I. Definitions

For purposes of this contract,

"Minority" means a person who meets one or more of the following definitions:

(a) American Indian or Native American means: all persons having origins in any of the original peoples of North America and who are recognized as an Indian by a tribe or tribal organization.
(b) Asian means: All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian sub-continent, or the Pacific Islands, including, but not limited to China, Japan, Korea, Samoa, India, and the Philippine Islands.
(c) Black means: All persons having origins in any of the Black racial groups of Africa, including, but not limited to, African-Americans, and all persons having origins in any of the original peoples of the Cape Verdean Islands.
(d) Eskimo or Aleut means: All persons having origins in any of the peoples of Northern Canada, Greenland, Alaska, and Eastern Siberia.
(e) Hispanic means: All persons having their origins in any of the Spanish-speaking peoples of Mexico, Puerto Rico, Cuba, Central or South America, or the Caribbean Islands.

"State construction contract" means a contract for the construction, reconstruction, installation, demolition, maintenance or repair of a building or capital facility, or a contract for the construction, reconstruction, alteration, remodeling or repair of a public work undertaken by a department, agency, board, or commission of the commonwealth.

"State assisted construction contract" means a contract for the construction, reconstruction, installation, demolition, maintenance or repair of a building or capital facility undertaken by a political subdivision of the commonwealth, or two or more political subdivisions thereof, an authority, or other instrumentality and whose costs of the contract are paid for, reimbursed, grant funded, or otherwise supported, in whole or in part, by the commonwealth.

II. Equal Opportunity, Non-Discrimination and Affirmative Action

During the performance of this Contract, the Contractor and all subcontractors (hereinafter collectively referred to as "the Contractor") for a state construction contract or a state assisted construction contract, for him/herself, his/her assignees and successors in interest, agree to comply with all applicable equal employment opportunity, non-discrimination and affirmative action requirements, including but not limited to the following:

In connection with the performance of work under this contract, the Contractor shall not discriminate against any employee or applicant for employment because of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability, shall not discriminate in the selection or retention of subcontractors, and shall not discriminate in the procurement of materials and rentals of equipment.

The aforesaid provision shall include, but not be limited to, the following: employment upgrading, demotion, or transfer; recruitment advertising, layoff or termination; rates of pay or other forms of compensation; conditions or privileges of employment; and selection for apprenticeship or on-the-job training opportunity. The Contractor shall comply with the provisions of chapter 151B of the Massachusetts General Laws, as amended, and all other applicable anti-discrimination and equal opportunity laws, all of which are herein incorporated by reference and made a part of this Contract.

The Contractor shall post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the Massachusetts Commission Against Discrimination setting forth the provisions of the Fair Employment Practices Law of the Commonwealth (Massachusetts General Laws Chapter 151B).

In connection with the performance of work under this contract, the Contractor shall undertake, in good faith, affirmative action measures to eliminate any discriminatory barriers in the terms and conditions of employment on the grounds of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability. Such affirmative action measures shall entail positive and aggressive measures to ensure non-discrimination and to promote equal opportunity in the areas of hiring, upgrading, demotion or transfer, recruitment, layoff or termination, rate of compensation, apprenticeship and on-the-job training programs. A list of positive and aggressive measures shall include, but not be limited to, advertising employment opportunities in minority and other community news media; notifying minority, women and other community-based organizations of employment opportunities; validating all job specifications, selection requirements, and tests; maintaining a file of names and addresses of each worker referred to the Contractor and what action was taken concerning such worker; and notifying the administering agency in writing when a union with whom the Contractor has a collective bargaining agreement has failed to refer a minority or woman worker. These and other affirmative action measures shall include all actions required to guarantee equal employment opportunity for all persons, regardless of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability. One purpose of this provision is to ensure to the fullest extent possible an adequate supply of skilled tradesmen for this and future Commonwealth public construction projects.

III. Minority and Women Workforce Participation

Pursuant to his/her obligations under the preceding section, the Contractor shall strive to achieve on this project the labor participation goals contained herein. Said participation goals shall apply in each job category on this project including but not limited to bricklayers, carpenters, cement masons, electricians, ironworkers, operating engineers and those classes of work enumerated in Section 44F of Chapter 149 of the Massachusetts General Laws. The participation goals for this project shall be 15.3% for minorities and 6.9% for women. The participation goals, as set forth herein, shall not be construed as quotas or set-asides; rather, such participation goals will be used to measure the progress of the Commonwealth's equal opportunity, non-discrimination and affirmative action program. Additionally, the participation goals contained herein should not be seen or treated as a floor or as a ceiling for the employment of particular individuals or group of individuals.

IV. Liaison Committee

At the discretion of the agency that administers the contract for the construction project there may be established for the life of the contract a body to be known as the Liaison Committee. The Liaison Committee shall be composed of one representative each from the agency or agencies administering the contract for the construction project, hereinafter called the administering agency, a representative from the Office of Affirmative action, and such other representatives as may be designated by the administering agency.

The Contractor (or his/her agent, if any, designated by him/her as the on-site equal employment opportunity officer) shall recognize the Liaison Committee as an affirmative action body, and shall establish a continuing working relationship with the Liaison Committee, consulting with the Liaison Committee on all matters related to minority recruitment, referral, employment and training.

V. Reports and Records

The Contractor shall prepare projected workforce tables on a quarterly basis when required by the administering agency. These shall be broken down into projections, by week, of workers required in each trade. Copies shall be furnished one week in advance of the commencement of the period covered, and also, when updated, to the administering agency and the Liaison Committee when required.

The Contractor shall prepare weekly reports in a form approved by the administering agency, unless information required is required to be reported electronically by the administering agency, the number of hours worked in each trade by each employee, identified as woman, minority, or non-minority. Copies of these shall be provided at the end of each such week to the administering agency and the Liaison Committee.

Records of employment referral orders, prepared by the Contractor, shall be made available to the administering agency on request.

The Contractor will provide all information and reports required by the administering agency on instructions issued by the administering agency and will permit access to its facilities and any books, records, accounts and other sources of information which may be determined by the administering agency to effect the employment of personnel. This provision shall apply only to information pertinent to the Commonwealth's supplementary non-discrimination, equal opportunity and access and opportunity contract requirements. Where information required is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the administering agency and shall set forth what efforts he has made to obtain the information.

VI. Access to Work Site

A designee of the administering agency and a designee of the Liaison Committee shall each have a right to access the work site.

VII. Solicitations for Subcontracts, and for the Procurement of Materials and Equipment

In all solicitations either by competitive bidding or negotiation made by the Contractor either for work to be performed under a subcontract or for the procurement of materials or equipment, each potential subcontractor or supplier shall be notified in writing by the Contractor of the Contractor's obligations under this contract relative to non-discrimination and equal opportunity.

VIII. Sanctions

Whenever the administering agency believes the General or Prime Contractor or any subcontractor may not be operating in compliance with the provisions of the Fair Employment Practices Law of the Commonwealth (Massachusetts General Laws Chapter 151B), the administering agency may refer the matter to the Massachusetts Commission Against Discrimination ("Commission") for investigation.

Following the referral of a matter by the administering agency to the Massachusetts Commission Against Discrimination, and while the matter is pending before the MCAD, the administering agency may withhold payments from contractors and subcontractors when it has documentation that the contractor or subcontractor has violated the Fair Employment Practices Law with respect to its activities on the Project, or if the administering agency determines that the contractor has materially failed to comply with its obligations and the requirements of this Section. The amount withheld shall not exceed a withhold of payment to the General or Prime Contractor of 1/100 or 1% of the contract award price or $5,000, whichever sum is greater, or, if a subcontractor is in non-compliance, a withhold by the administering agency from the General Contractor, to be assessed by the General Contractor as a charge against the subcontractor, of 1/100 or 1% of the subcontractor price, or $1,000 whichever sum is greater, for each violation of the applicable law or contract requirements. The total withheld from any one General or Prime Contractor or subcontractor on a Project shall not exceed $20,000 overall. No withhold of payments or investigation by the Commission or its agent shall be initiated without the administering agency providing prior notice to the Contractor.

If, after investigation, the Massachusetts Commission Against Discrimination finds that a General or Prime Contractor or subcontractor, in commission of a state construction contract or state-assisted construction contract, violated the provisions of the Fair Employment Practices Law, the administering agency may convert the amount withheld as set forth above into a permanent sanction, as a permanent deduct from payments to the General or Prime Contractor or subcontractor, which sanction will be in addition to any such sanctions, fines or penalties imposed by the Massachusetts Commission Against Discrimination:

No sanction enumerated under this Section shall be imposed by the administering agency except after notice to the General or Prime Contractor or subcontractor and an adjudicatory proceeding, as that term is used, under Massachusetts General Laws Chapter 30A, has been conducted.

IX. Severability

The provisions of this section are severable, and if any of these provisions shall be held unconstitutional by any court of competent jurisdiction, the decision of such court shall not affect or impair any of the remaining provisions.

X. Contractor's Certification

A bidder for a state construction contract or state assisted construction contract will not be eligible for award of the contract unless such bidder has submitted to the administering agency the following certification, which will be incorporated into the resulting contract:

CONTRACTOR'S CERTIFICATION

_____ certifies that they:
(Contractor Name)

1. Will not discriminate in their employment practices;

2. Intend to use the following listed construction trades in the work under the contract

   _____

   _____; and

3. Will make good faith efforts to comply with the minority employee and women employee workforce participation ratio goals and specific affirmative action steps contained herein; and

4. Are in compliance with all applicable federal and state laws, rules, and regulations governing fair labor and employment practices; and

5. Will provide the provisions of the "Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program" to each and every subcontractor employed on the Project and will incorporate the terms of this Section into all subcontracts and work orders entered into on the Project.

6. Agree to comply with all provisions contained herein.

_____
(Signature of authorized representative of Contractor) Date

_____
(Printed name of authorized representative of Contractor)

XI. Subcontractor Requirements

Prior to the award of any subcontract for a state construction contract or a state assisted construction contract, regardless of tier, the Prime or General Contractor shall provide all prospective subcontractors with a complete copy of this Section entitled "Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program" and will incorporate the provisions of this Section by reference into any and all contracts or work orders for all subcontractors providing work on the Project. In order to ensure that the said subcontractor's certification becomes a part of all subcontracts under the prime contract, the Prime or General Contractor shall certify in writing to the administering agency that it has complied with the requirements as set forth in the proceeding paragraph.

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

MAURA HEALY
Governor
KIM DRISCOLL
Lt. Governor

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

LAUREN JONES
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority:	Town of Lenox	**City/Town:**	LENOX
Contract Number:	E2907		
Description of Work:	The work to be performed includes installation of a refrigerated portable ice rink (44' x 80') over the existing multi-use court, electric service, concrete chiller pad, water filler station, benches, and related work		
Job Location:	65 Walker Street, Lenox, MA 01240		

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- 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 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, the 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. The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.
- This annual update requirement is generally not applicable to 27F “rental of equipment” contracts. For such contracts, the prevailing wage rates issued by DLS shall remain in effect for the duration of the contract term. However, if the prevailing wage rate sheet issued does not contain wage rates for each year covered by the contract term, the Awarding Authority must request updated rate sheets from DLS and provide them to the contractor to ensure the correct rates are being paid throughout the duration of the contract. Additionally, if an Awarding Authority exercises an option to renew or extend the contract term, they must request updated rate sheets form DLS and provide them to the contractor.
- 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 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 a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons 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 DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker's rate.**
- Every contractor or subcontractor working on the construction project must 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. For a sample payroll reporting form go to 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.
- Contractors must obtain the wage schedules from awarding authorities. 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 criminal penalties.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2025	$40.95	$15.57	$20.17	$0.00	$0.00	$76.69
	12/1/2025	$40.95	$15.57	$21.78	$0.00	$0.00	$78.30
	1/1/2026	$40.95	$16.17	$21.78	$0.00	$0.00	$78.90
	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2025	$41.02	$15.57	$20.17	$0.00	$0.00	$76.76
	12/1/2025	$41.02	$15.57	$21.78	$0.00	$0.00	$78.37
	1/1/2026	$41.02	$16.17	$21.78	$0.00	$0.00	$78.97
	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2025	$41.14	$15.57	$20.17	$0.00	$0.00	$76.88
	12/1/2025	$41.14	$15.57	$21.78	$0.00	$0.00	$78.49
	1/1/2026	$41.14	$16.17	$21.78	$0.00	$0.00	$79.09
	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	12/1/2024	$32.29	$9.90	$9.25	$5.53	$0.00	$56.97
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.98	$9.90	$9.25	$6.60	$0.00	$61.73
	12/1/2025	$37.21	$9.90	$9.25	$6.60	$0.00	$62.96
	6/1/2026	$39.25	$9.90	$9.25	$6.60	$0.00	$65.00
	12/1/2026	$40.54	$9.90	$9.25	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	6/1/2025	$39.42	$14.50	$4.30	$6.25	$0.00	$64.47
	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47
ASPHALT RAKER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.48	$9.90	$9.25	$6.60	$0.00	$61.23
	12/1/2025	$36.71	$9.90	$9.25	$6.60	$0.00	$62.46
	6/1/2026	$38.75	$9.90	$9.25	$6.60	$0.00	$64.50
	12/1/2026	$40.04	$9.90	$9.25	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	12/1/2024	$32.29	$9.90	$9.25	$5.53	$0.00	$56.97
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2025	$35.98	$9.90	$9.25	$6.60	$0.00	$61.73
	12/1/2025	$37.21	$9.90	$9.25	$6.60	$0.00	$62.96
	6/1/2026	$39.25	$9.90	$9.25	$6.60	$0.00	$65.00
	12/1/2026	$40.54	$9.90	$9.25	$6.60	$0.00	$66.29
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
2	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
3	70.00	$33.68	$7.07	$10.03	$4.20	$0.00	$54.98
4	75.00	$36.09	$7.07	$10.74	$4.50	$0.00	$58.40
5	80.00	$38.50	$7.07	$11.45	$4.80	$0.00	$61.82
6	85.00	$40.90	$7.07	$12.18	$5.10	$0.00	$65.25
7	90.00	$43.31	$7.07	$12.88	$5.40	$0.00	$68.66
8	95.00	$45.71	$7.07	$13.62	$5.70	$0.00	$72.10

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3	2/1/2025	$54.21	$11.49	$15.57	$5.89	$0.00	$87.16
	8/1/2025	$56.36	$11.49	$15.57	$5.89	$0.00	$89.31
	2/1/2026	$57.71	$11.49	$15.57	$5.89	$0.00	$90.66

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	8/1/2026	$59.91	$11.49	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$61.31	$11.49	$15.57	$5.89	$0.00	$94.26

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$27.11	$11.49	$15.57	$5.89	$0.00	$60.06
2	60.00	$32.53	$11.49	$15.57	$5.89	$0.00	$65.48
3	70.00	$37.95	$11.49	$15.57	$5.89	$0.00	$70.90
4	80.00	$43.37	$11.49	$15.57	$5.89	$0.00	$76.32
5	90.00	$48.79	$11.49	$15.57	$5.89	$0.00	$81.74

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$11.49	$15.57	$5.89	$0.00	$61.13
2	60.00	$33.82	$11.49	$15.57	$5.89	$0.00	$66.77
3	70.00	$39.45	$11.49	$15.57	$5.89	$0.00	$72.40
4	80.00	$45.09	$11.49	$15.57	$5.89	$0.00	$78.04
5	90.00	$50.72	$11.49	$15.57	$5.89	$0.00	$83.67

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2025	$48.85	$9.90	$9.25	$9.80	$0.00	$77.80
	12/1/2025	$50.35	$9.90	$9.25	$9.80	$0.00	$79.30
	6/1/2026	$51.90	$9.90	$9.25	$9.80	$0.00	$80.85
	12/1/2026	$53.40	$9.90	$9.25	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2025	$47.70	$9.90	$9.25	$9.80	$0.00	$76.65
	12/1/2025	$49.20	$9.90	$9.25	$9.80	$0.00	$78.15
	6/1/2026	$50.75	$9.90	$9.25	$9.80	$0.00	$79.70
	12/1/2026	$52.25	$9.90	$9.25	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2025	$48.03	$9.90	$9.25	$9.80	$0.00	$76.98
	12/1/2025	$49.53	$9.90	$9.25	$9.80	$0.00	$78.48
	6/1/2026	$51.08	$9.90	$9.25	$9.80	$0.00	$80.03
	12/1/2026	$52.58	$9.90	$9.25	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - BERKSHIRE COUNTY	3/1/2025	$43.26	$7.91	$11.25	$6.90	$0.00	$69.32
	9/1/2025	$44.21	$7.91	$11.25	$6.90	$0.00	$70.27
	3/1/2026	$45.11	$7.91	$11.25	$6.90	$0.00	$71.17
	9/1/2026	$46.06	$7.91	$11.25	$6.90	$0.00	$72.12
	3/1/2027	$46.96	$7.91	$11.25	$6.90	$0.00	$73.02

Apprentice: CARPENTER

Effective Date: 3/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.47	$7.91	$0.00	$1.38	$0.00	$28.76
2	45.00	$19.47	$7.91	$0.00	$1.38	$0.00	$28.76
3	55.00	$23.79	$7.91	$0.00	$2.76	$0.00	$34.46
4	55.00	$23.79	$7.91	$0.00	$2.76	$0.00	$34.46
5	70.00	$30.28	$7.91	$11.25	$4.14	$0.00	$53.58
6	70.00	$30.28	$7.91	$11.25	$4.14	$0.00	$53.58
7	80.00	$34.61	$7.91	$11.25	$5.52	$0.00	$59.29
8	80.00	$34.61	$7.91	$11.25	$5.52	$0.00	$59.29

Apprentice: CARPENTER

Effective Date: 9/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.89	$7.91	$0.00	$1.38	$0.00	$29.18
2	45.00	$19.89	$7.91	$0.00	$1.38	$0.00	$29.18
3	55.00	$24.32	$7.91	$0.00	$2.76	$0.00	$34.99
4	55.00	$24.32	$7.91	$0.00	$2.76	$0.00	$34.99
5	70.00	$30.95	$7.91	$11.25	$4.14	$0.00	$54.25
6	70.00	$30.95	$7.91	$11.25	$4.14	$0.00	$54.25
7	80.00	$35.37	$7.91	$11.25	$5.52	$0.00	$60.05
8	80.00	$35.37	$7.91	$11.25	$5.52	$0.00	$60.05

CARPENTER WOOD FRAME CARPENTERS CARPENTERS-ZONE 3 (Wood Frame) All Aspects of New Wood Frame Work	10/1/2024	$26.65	$7.02	$3.80	$1.00	$0.00	$38.47
	10/1/2025	$27.75	$7.02	$3.80	$1.00	$0.00	$39.57
	10/1/2026	$28.85	$7.02	$3.80	$1.00	$0.00	$40.67

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$15.99	$7.02	$0.00	$0.00	$0.00	$23.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
2	60.00	$15.99	$7.02	$0.00	$0.00	$0.00	$23.01
3	65.00	$17.32	$7.02	$0.00	$1.00	$0.00	$25.34
4	70.00	$18.66	$7.02	$0.00	$1.00	$0.00	$26.68
5	75.00	$19.99	$7.02	$3.80	$1.00	$0.00	$31.81
6	80.00	$21.32	$7.02	$3.80	$1.00	$0.00	$33.14
7	85.00	$22.65	$7.02	$3.80	$1.00	$0.00	$34.47
8	90.00	$23.99	$7.02	$3.80	$1.00	$0.00	$35.81

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$16.65	$7.02	$0.00	$0.00	$0.00	$23.67
2	60.00	$16.65	$7.02	$0.00	$0.00	$0.00	$23.67
3	65.00	$18.04	$7.02	$0.00	$1.00	$0.00	$26.06
4	70.00	$19.43	$7.02	$0.00	$1.00	$0.00	$27.45
5	75.00	$20.81	$7.02	$3.80	$1.00	$0.00	$32.63
6	80.00	$22.20	$7.02	$3.80	$1.00	$0.00	$34.02
7	85.00	$23.59	$7.02	$3.80	$1.00	$0.00	$35.41
8	90.00	$24.98	$7.02	$3.80	$1.00	$0.00	$36.80

CEMENT MASONRY/PLASTERING BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	7/1/2024	$44.56	$13.20	$16.30	$2.93	$1.69	$78.68

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.28	$13.20	$16.30	$0.00	$0.00	$51.78
2	60.00	$26.74	$13.20	$16.30	$2.93	$1.69	$60.86
3	65.00	$28.96	$13.20	$16.30	$2.93	$1.69	$63.08
4	70.00	$31.19	$13.20	$16.30	$2.93	$1.69	$65.31
5	75.00	$33.42	$13.20	$16.30	$2.93	$1.69	$67.54
6	80.00	$35.65	$13.20	$16.30	$2.93	$1.69	$69.77
7	90.00	$40.10	$13.20	$16.30	$2.93	$1.69	$74.22

CHAIN SAW OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47

For apprentice rates see "Apprentice- LABORER"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
COMPRESSOR OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2025	$58.46	$9.95	$11.85	$12.10	$0.00	$92.36

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.23	$9.95	$0.00	$0.00	$0.00	$39.18
2	55.00	$32.15	$9.95	$0.00	$6.66	$0.00	$48.76
3	60.00	$35.08	$9.95	$0.00	$7.26	$0.00	$52.29
4	65.00	$38.00	$9.95	$0.00	$7.87	$0.00	$55.82
5	70.00	$40.92	$9.95	$11.85	$8.47	$0.00	$71.19
6	75.00	$43.85	$9.95	$11.85	$9.08	$0.00	$74.73
7	80.00	$46.77	$9.95	$11.85	$9.68	$0.00	$78.25
8	90.00	$52.61	$9.95	$11.85	$10.89	$0.00	$85.30

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/2/2025	$47.75	$9.90	$9.25	$9.65	$0.00	$76.55
	12/1/2025	$49.25	$9.90	$9.25	$9.65	$0.00	$78.05
	6/1/2026	$50.80	$9.90	$9.25	$9.65	$0.00	$79.60
	12/7/2026	$52.30	$9.90	$9.25	$9.65	$0.00	$81.10
	6/7/2027	$53.90	$9.90	$9.25	$9.65	$0.00	$82.70
	12/6/2027	$55.50	$9.90	$9.25	$9.65	$0.00	$84.30
	6/5/2028	$57.18	$9.90	$9.25	$9.65	$0.00	$85.98
	12/4/2028	$58.85	$9.90	$9.25	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/2/2025	$48.75	$9.90	$9.25	$9.65	$0.00	$77.55
	12/1/2025	$50.25	$9.90	$9.25	$9.65	$0.00	$79.05
	6/1/2026	$51.80	$9.90	$9.25	$9.65	$0.00	$80.60
	12/7/2026	$53.30	$9.90	$9.25	$9.65	$0.00	$82.10
	6/7/2027	$54.90	$9.90	$9.25	$9.65	$0.00	$83.70
	12/6/2027	$56.50	$9.90	$9.25	$9.65	$0.00	$85.30
	6/5/2028	$58.18	$9.90	$9.25	$9.65	$0.00	$86.98
	12/4/2028	$59.85	$9.90	$9.25	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/2/2025	$48.50	$9.90	$9.25	$9.65	$0.00	$77.30
	12/1/2025	$50.00	$9.90	$9.25	$9.65	$0.00	$78.80
	6/1/2026	$51.55	$9.90	$9.25	$9.65	$0.00	$80.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/7/2026	$53.05	$9.90	$9.25	$9.65	$0.00	$81.85
	6/7/2027	$54.65	$9.90	$9.25	$9.65	$0.00	$83.45
	12/6/2027	$56.25	$9.90	$9.25	$9.65	$0.00	$85.05
	6/5/2028	$57.93	$9.90	$9.25	$9.65	$0.00	$86.73
	12/4/2028	$59.60	$9.90	$9.25	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/2/2025	$48.75	$9.90	$9.25	$9.65	$0.00	$77.55
	12/1/2025	$50.25	$9.90	$9.25	$9.65	$0.00	$79.05
	6/1/2026	$51.80	$9.90	$9.25	$9.65	$0.00	$80.60
	12/7/2026	$53.30	$9.90	$9.25	$9.65	$0.00	$82.10
	6/7/2027	$54.90	$9.90	$9.25	$9.65	$0.00	$83.70
	12/6/2027	$56.50	$9.90	$9.25	$9.65	$0.00	$85.30
	6/5/2028	$58.18	$9.90	$9.25	$9.65	$0.00	$86.98
	12/4/2028	$59.85	$9.90	$9.25	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/2/2025	$48.50	$9.90	$9.25	$9.65	$0.00	$77.30
	12/1/2025	$50.00	$9.90	$9.25	$9.65	$0.00	$78.80
	6/1/2026	$51.55	$9.90	$9.25	$9.65	$0.00	$80.35
	12/7/2026	$53.05	$9.90	$9.25	$9.65	$0.00	$81.85
	6/7/2027	$54.65	$9.90	$9.25	$9.65	$0.00	$83.45
	12/6/2027	$56.25	$9.90	$9.25	$9.65	$0.00	$85.05
	6/5/2028	$57.93	$9.90	$9.25	$9.65	$0.00	$86.73
	12/4/2028	$59.60	$9.90	$9.25	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/2/2025	$47.75	$9.90	$9.25	$9.65	$0.00	$76.55
	12/1/2025	$49.25	$9.90	$9.25	$9.65	$0.00	$78.05
	6/1/2026	$50.80	$9.90	$9.25	$9.65	$0.00	$79.60
	12/7/2026	$52.30	$9.90	$9.25	$9.65	$0.00	$81.10
	6/7/2027	$53.90	$9.90	$9.25	$9.65	$0.00	$82.70
	12/6/2027	$55.50	$9.90	$9.25	$9.65	$0.00	$84.30
	6/5/2028	$57.18	$9.90	$9.25	$9.65	$0.00	$85.98
	12/4/2028	$58.85	$9.90	$9.25	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A $69.83, 3A $91.79,4A $102.14 Total Rate							
DIVER TENDER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A $54.20, 3A $73.93,4A $82.05 Total Rate							
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
For apprentice rates see "Apprentice- PILE DRIVER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
DRAWBRIDGE OPERATOR (Construction) DRAWBRIDGE - SEIU LOCAL 888 DRAWBRIDGE - SEIU LOCAL 888	7/1/2020	$26.77	$6.67	$3.93	$0.00	$0.16	$37.53
ELECTRICIAN (Including Core Drilling) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	12/29/2024	$51.06	$13.25	$8.23	$6.83	$0.00	$79.37
	6/29/2025	$52.16	$13.50	$8.31	$6.90	$0.00	$80.87
	12/28/2025	$53.26	$13.75	$8.40	$6.96	$0.00	$82.37
	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 12/29/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$20.42	$7.35	$0.61	$0.00	$0.00	$28.38
2	45.00	$22.98	$7.35	$0.69	$0.00	$0.00	$31.02
3	50.00	$25.53	$13.25	$7.47	$0.00	$0.00	$46.25
4	55.00	$28.08	$13.25	$7.54	$0.00	$0.00	$48.87
5	65.00	$33.19	$13.25	$9.74	$0.00	$0.00	$56.18
6	70.00	$35.74	$13.25	$11.19	$0.00	$0.00	$60.18

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/29/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$20.86	$7.50	$0.63	$0.00	$0.00	$28.99
2	45.00	$23.47	$7.50	$0.70	$0.00	$0.00	$31.67
3	50.00	$26.08	$13.50	$7.53	$0.00	$0.00	$47.11
4	55.00	$28.69	$13.50	$7.61	$0.00	$0.00	$49.80
5	65.00	$33.90	$13.50	$9.84	$0.00	$0.00	$57.24
6	70.00	$36.51	$13.50	$11.30	$0.00	$0.00	$61.31

ELEVATOR CONSTRUCTOR ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2025	$62.83	$16.28	$10.96	$10.40	$0.00	$100.47
	1/1/2026	$63.68	$16.38	$11.06	$10.70	$0.00	$101.82
	1/1/2027	$64.53	$16.48	$11.16	$11.00	$0.00	$103.17

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$31.42	$16.28	$0.00	$0.00	$0.00	$47.70

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
2	55.00	$34.56	$16.28	$10.96	$10.40	$0.00	$72.20
3	65.00	$40.84	$16.28	$10.96	$10.40	$0.00	$78.48
4	70.00	$43.98	$16.28	$10.96	$10.40	$0.00	$81.62
5	80.00	$50.26	$16.28	$10.96	$10.40	$0.00	$87.90

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$31.84	$16.38	$0.00	$0.00	$0.00	$48.22
2	55.00	$35.02	$16.38	$11.06	$10.70	$0.00	$73.16
3	65.00	$41.39	$16.38	$11.06	$10.70	$0.00	$79.53
4	70.00	$44.58	$16.38	$11.06	$10.70	$0.00	$82.72
5	80.00	$50.94	$16.38	$11.06	$10.70	$0.00	$89.08

ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2025	$43.98	$16.28	$10.96	$10.40	$0.00	$81.62
	1/1/2026	$44.58	$16.38	$11.06	$10.70	$0.00	$82.72
	1/1/2027	$45.17	$16.48	$11.16	$11.00	$0.00	$83.81
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.48	$9.90	$9.25	$6.60	$0.00	$61.23
	12/1/2025	$36.71	$9.90	$9.25	$6.60	$0.00	$62.46
	6/1/2026	$38.75	$9.90	$9.25	$6.60	$0.00	$64.50
	12/1/2026	$40.04	$9.90	$9.25	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7	12/29/2024	$51.06	$13.25	$8.23	$6.83	$0.00	$79.37
	6/29/2025	$52.16	$13.50	$8.31	$6.90	$0.00	$80.87

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ELECTRICIANS LOCAL 7	12/28/2025	$53.26	$13.75	$8.40	$6.96	$0.00	$82.37
	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING	12/29/2024	$51.06	$13.25	$8.23	$6.83	$0.00	$79.37
	6/29/2025	$52.16	$13.50	$8.31	$6.90	$0.00	$80.87
ELECTRICIANS LOCAL 7	12/28/2025	$53.26	$13.75	$8.40	$6.96	$0.00	$82.37
ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

Apprentice: FIREMAN

Effective Date: 12/1/2023

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.42	$13.78	$12.15	$3.00	$0.00	$52.35
2	70.00	$27.32	$13.78	$12.15	$3.00	$0.00	$56.25
3	80.00	$31.22	$13.78	$12.15	$3.00	$0.00	$60.15
4	90.00	$35.13	$13.78	$12.15	$3.00	$0.00	$64.06

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2025	$28.09	$9.90	$9.25	$6.60	$0.00	$53.84
LABORERS	12/1/2025	$28.09	$9.90	$9.25	$6.60	$0.00	$53.84
LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$29.21	$9.90	$9.25	$6.60	$0.00	$54.96
	12/1/2026	$29.21	$9.90	$9.25	$6.60	$0.00	$54.96
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2025	$43.26	$7.91	$11.25	$6.90	$0.00	$69.32
FLOORCOVERERS LOCAL 2168	9/1/2025	$44.21	$7.91	$11.25	$6.90	$0.00	$70.27
FLOORCOVERERS LOCAL 2168 ZONE III	3/1/2026	$45.11	$7.91	$11.25	$6.90	$0.00	$71.17
	9/1/2026	$46.06	$7.91	$11.25	$6.90	$0.00	$72.12
	3/1/2027	$46.96	$7.91	$11.25	$6.90	$0.00	$73.02

Apprentice: FLOORCOVERER

Effective Date: 3/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.47	$7.91	$0.00	$1.38	$0.00	$28.76
2	45.00	$19.47	$7.91	$0.00	$1.38	$0.00	$28.76
3	55.00	$23.79	$7.91	$0.00	$2.76	$0.00	$34.46
4	55.00	$23.79	$7.91	$0.00	$2.76	$0.00	$34.46
5	70.00	$30.28	$7.91	$11.25	$4.14	$0.00	$53.58
6	70.00	$30.28	$7.91	$11.25	$4.14	$0.00	$53.58
7	80.00	$34.61	$7.91	$11.25	$5.52	$0.00	$59.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: FLOORCOVERER

Effective Date: 3/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
8	80.00	$34.61	$7.91	$11.25	$5.52	$0.00	$59.29

Apprentice: FLOORCOVERER

Effective Date: 9/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.89	$7.91	$0.00	$1.38	$0.00	$29.18
2	45.00	$19.89	$7.91	$0.00	$1.38	$0.00	$29.18
3	55.00	$24.32	$7.91	$0.00	$2.76	$0.00	$34.99
4	55.00	$24.32	$7.91	$0.00	$2.76	$0.00	$34.99
5	70.00	$30.95	$7.91	$11.25	$4.14	$0.00	$54.25
6	70.00	$30.95	$7.91	$11.25	$4.14	$0.00	$54.25
7	80.00	$35.37	$7.91	$11.25	$5.52	$0.00	$60.05
8	80.00	$35.37	$7.91	$11.25	$5.52	$0.00	$60.05

FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2020	$39.18	$10.80	$6.70	$3.75	$0.00	$60.43

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2020

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.59	$10.80	$1.50	$0.30	$0.00	$32.19
2	56.25	$22.04	$10.80	$1.50	$0.30	$0.00	$34.64
3	62.50	$24.49	$10.80	$1.95	$0.50	$0.00	$37.74
4	68.75	$26.94	$10.80	$1.95	$0.50	$0.00	$40.19
5	75.00	$29.39	$10.80	$2.50	$0.65	$0.00	$43.34
6	81.25	$31.83	$10.80	$2.50	$0.65	$0.00	$45.78
7	87.50	$34.28	$10.80	$6.70	$3.75	$0.00	$55.53
8	93.75	$36.73	$10.80	$6.70	$3.75	$0.00	$57.98

GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63 For apprentice rates see "Apprentice- SHEET METAL WORKER"	1/1/2025	$42.23	$12.20	$10.79	$7.95	$2.13	$75.30
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7 For apprentice rates see "Apprentice- ELECTRICIAN"	12/29/2024	$51.06	$13.25	$8.23	$6.83	$0.00	$79.37
	6/29/2025	$52.16	$13.50	$8.31	$6.90	$0.00	$80.87
	12/28/2025	$53.26	$13.75	$8.40	$6.96	$0.00	$82.37
	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63 For apprentice rates see "Apprentice- SHEET METAL WORKER"	1/1/2025	$42.23	$12.20	$10.79	$7.95	$2.13	$75.30
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"	3/17/2024	$49.21	$9.55	$10.10	$7.00	$0.00	$75.86
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"	3/17/2024	$49.21	$9.55	$10.10	$7.00	$0.00	$75.86
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2025	$35.98	$9.90	$9.25	$6.60	$0.00	$61.73
	12/1/2025	$37.21	$9.90	$9.25	$6.60	$0.00	$62.96
	6/1/2026	$39.25	$9.90	$9.25	$6.60	$0.00	$65.00
	12/1/2026	$40.54	$9.90	$9.25	$6.60	$0.00	$66.29
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2024	$45.54	$14.75	$9.52	$10.09	$0.00	$79.90
	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.77	$14.75	$9.27	$5.05	$0.00	$51.84
2	60.00	$27.32	$14.75	$9.32	$6.05	$0.00	$57.44
3	70.00	$31.88	$14.75	$9.37	$7.06	$0.00	$63.06
4	80.00	$36.43	$14.75	$9.42	$8.07	$0.00	$68.67

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: INSULATOR (PIPES & TANKS)							
Effective Date: 9/1/2025							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$24.14	$14.75	$9.27	$5.05	$0.00	$53.21
2 / 60.00		$28.96	$14.75	$9.32	$6.05	$0.00	$59.08
3 / 70.00		$33.79	$14.75	$9.37	$7.06	$0.00	$64.97
4 / 80.00		$38.62	$14.75	$9.42	$8.07	$0.00	$70.86
IRONWORKER/WELDER IRONWORKERS LOCAL 12 IRONWORKERS LOCAL 12	7/1/2019	$31.55	$6.75	$15.91	$3.75	$0.00	$57.96
Apprentice: IRONWORKER/WELDER							
Effective Date: 7/1/2019							
Step / Percent		**Apprentice Base Wage**					
1 / 60.00		$18.93	$6.75	$0.00	$3.50	$0.00	$29.18
2 / 70.00		$22.09	$6.75	$11.14	$3.50	$0.00	$43.48
3 / 80.00		$25.24	$6.75	$12.72	$3.50	$0.00	$48.21
4 / 90.00		$28.40	$6.75	$14.32	$3.50	$0.00	$52.97
JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47
For apprentice rates see "Apprentice- LABORER"							
LABORER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.54	$9.90	$9.25	$5.53	$0.00	$56.22
Apprentice: LABORER							
Effective Date: 12/1/2024							
Step / Percent		**Apprentice Base Wage**					
1 / 60.00		$18.92	$9.90	$9.25	$5.53	$0.00	$43.60
2 / 70.00		$22.08	$9.90	$9.25	$5.53	$0.00	$46.76
3 / 80.00		$25.23	$9.90	$9.25	$5.53	$0.00	$49.91
4 / 90.00		$28.39	$9.90	$9.25	$5.53	$0.00	$53.07
LABORER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.23	$9.90	$9.25	$6.60	$0.00	$60.98
	12/1/2025	$36.46	$9.90	$9.25	$6.60	$0.00	$62.21
	6/1/2026	$38.50	$9.90	$9.25	$6.60	$0.00	$64.25
	12/1/2026	$39.79	$9.90	$9.25	$6.60	$0.00	$65.54

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.14	$9.90	$9.25	$6.60	$0.00	$46.89
2	70.00	$24.66	$9.90	$9.25	$6.60	$0.00	$50.41
3	80.00	$28.18	$9.90	$9.25	$6.60	$0.00	$53.93
4	90.00	$31.71	$9.90	$9.25	$6.60	$0.00	$57.46

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 12/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.88	$9.90	$9.25	$6.60	$0.00	$47.63
2	70.00	$25.52	$9.90	$9.25	$6.60	$0.00	$51.27
3	80.00	$29.17	$9.90	$9.25	$6.60	$0.00	$54.92
4	90.00	$32.81	$9.90	$9.25	$6.60	$0.00	$58.56

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.54	$9.90	$9.25	$5.53	$0.00	$56.22
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.54	$9.90	$9.25	$5.53	$0.00	$56.22
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2025	$34.40	$9.65	$9.00	$5.41	$0.00	$58.46
	12/1/2025	$35.63	$9.65	$9.00	$5.41	$0.00	$59.69
	6/1/2026	$37.67	$9.65	$9.00	$5.41	$0.00	$61.73
	12/1/2026	$38.96	$9.65	$9.00	$5.41	$0.00	$63.02
	6/1/2027	$40.26	$9.65	$9.00	$5.41	$0.00	$64.32
	12/1/2027	$41.56	$9.65	$9.00	$5.41	$0.00	$65.62
	6/5/2028	$42.91	$9.65	$9.00	$5.41	$0.00	$66.97
	12/4/2028	$44.26	$9.65	$9.00	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$33.54	$9.90	$9.25	$5.53	$0.00	$58.22
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.48	$9.90	$9.25	$6.60	$0.00	$61.23
	12/1/2025	$36.71	$9.90	$9.25	$6.60	$0.00	$62.46
	6/1/2026	$38.75	$9.90	$9.25	$6.60	$0.00	$64.50
	12/1/2026	$40.04	$9.90	$9.25	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORER: MULTI-TRADE TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.54	$9.90	$9.25	$5.53	$0.00	$56.22
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.54	$9.90	$9.25	$5.53	$0.00	$56.22
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.48	$9.90	$9.25	$6.60	$0.00	$61.23
	12/1/2025	$36.71	$9.90	$9.25	$6.60	$0.00	$62.46
	6/1/2026	$38.75	$9.90	$9.25	$6.60	$0.00	$64.50
	12/1/2026	$40.04	$9.90	$9.25	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2025	$43.84	$11.49	$15.10	$5.68	$0.00	$76.11
	8/1/2025	$44.75	$11.49	$15.10	$5.68	$0.00	$77.02
	2/1/2026	$45.83	$11.49	$15.10	$5.68	$0.00	$78.10
	8/1/2026	$47.59	$11.49	$15.10	$5.68	$0.00	$79.86
	2/1/2027	$48.71	$11.49	$15.10	$5.68	$0.00	$80.98

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.92	$11.49	$15.10	$5.68	$0.00	$54.19
2	60.00	$26.30	$11.49	$15.10	$5.68	$0.00	$58.57
3	70.00	$30.69	$11.49	$15.10	$5.68	$0.00	$62.96
4	80.00	$35.07	$11.49	$15.10	$5.68	$0.00	$67.34
5	90.00	$39.46	$11.49	$15.10	$5.68	$0.00	$71.73

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 8/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.38	$11.49	$15.10	$5.68	$0.00	$54.65
2	60.00	$26.85	$11.49	$15.10	$5.68	$0.00	$59.12
3	70.00	$31.33	$11.49	$15.10	$5.68	$0.00	$63.60
4	80.00	$35.80	$11.49	$15.10	$5.68	$0.00	$68.07
5	90.00	$40.28	$11.49	$15.10	$5.68	$0.00	$72.55

MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/6/2025 1/5/2026	$43.48 $45.76	$10.08 $10.08	$11.47 $11.47	$9.75 $9.75	$0.00 $0.00	$74.78 $77.06

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/6/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$23.91	$10.08	$0.00	$5.36	$0.00	$39.35
2	65.00	$28.26	$10.08	$0.00	$6.34	$0.00	$44.68
3	75.00	$32.61	$10.08	$11.47	$7.31	$0.00	$61.47
4	85.00	$36.96	$10.08	$11.47	$8.29	$0.00	$66.80

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/5/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$25.17	$10.08	$0.00	$5.36	$0.00	$40.61
2	65.00	$29.74	$10.08	$0.00	$6.34	$0.00	$46.16
3	75.00	$34.32	$10.08	$11.47	$7.31	$0.00	$63.18
4	85.00	$38.90	$10.08	$11.47	$8.29	$0.00	$68.74

MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47
OILER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95
OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67
PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2025	$58.46	$9.95	$11.85	$12.10	$0.00	$92.36

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.23	$9.95	$0.00	$0.00	$0.00	$39.18
2	55.00	$32.15	$9.95	$0.00	$6.66	$0.00	$48.76
3	60.00	$35.08	$9.95	$0.00	$7.26	$0.00	$52.29
4	65.00	$38.00	$9.95	$0.00	$7.87	$0.00	$55.82
5	70.00	$40.92	$9.95	$11.85	$8.47	$0.00	$71.19
6	75.00	$43.85	$9.95	$11.85	$9.08	$0.00	$74.73
7	80.00	$46.77	$9.95	$11.85	$9.68	$0.00	$78.25
8	90.00	$52.61	$9.95	$11.85	$10.89	$0.00	$85.30

PAINTER (SPRAY OR SANDBLAST, NEW) * 1/1/2025 $41.23 $9.65 $11.85 $8.05 $0.00 $70.78
* If 30% or more of surfaces to be painted are new construction,
NEW paint rate shall be used.
PAINTERS LOCAL 35
PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.62	$9.95	$0.00	$0.00	$0.00	$30.57
2	55.00	$22.68	$9.95	$0.00	$4.43	$0.00	$37.06
3	60.00	$24.74	$9.95	$0.00	$4.83	$0.00	$39.52
4	65.00	$26.80	$9.95	$0.00	$5.23	$0.00	$41.98
5	70.00	$28.86	$9.95	$11.85	$5.64	$0.00	$56.30
6	75.00	$30.92	$9.95	$11.85	$6.04	$0.00	$58.76
7	80.00	$32.98	$9.95	$11.85	$6.44	$0.00	$61.22
8	90.00	$37.11	$9.95	$11.85	$7.25	$0.00	$66.16

PAINTER (SPRAY OR SANDBLAST, REPAINT) 1/1/2025 $38.55 $9.95 $11.85 $8.05 $0.00 $68.40
PAINTERS LOCAL 35
PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.28	$9.95	$0.00	$0.00	$0.00	$29.23
2	55.00	$21.20	$9.95	$0.00	$4.43	$0.00	$35.58
3	60.00	$23.13	$9.95	$0.00	$4.83	$0.00	$37.91
4	65.00	$25.06	$9.95	$0.00	$5.23	$0.00	$40.24
5	70.00	$26.99	$9.95	$11.85	$5.64	$0.00	$54.43
6	75.00	$28.91	$9.95	$11.85	$6.04	$0.00	$56.75

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
7	80.00	$30.84	$9.95	$11.85	$6.44	$0.00	$59.08
8	90.00	$34.70	$9.95	$11.85	$7.25	$0.00	$63.75

PAINTER / TAPER (BRUSH, NEW) *	1/1/2025	$39.83	$9.95	$11.85	$8.05	$0.00	$69.68

* If 30% or more of surfaces to be painted are new construction,
NEW paint rate shall be used.
PAINTERS LOCAL 35
PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.92	$9.95	$0.00	$0.00	$0.00	$29.87
2	55.00	$21.91	$9.95	$0.00	$4.43	$0.00	$36.29
3	60.00	$23.90	$9.95	$0.00	$4.83	$0.00	$38.68
4	65.00	$25.89	$9.95	$0.00	$5.23	$0.00	$41.07
5	70.00	$27.88	$9.95	$11.85	$5.64	$0.00	$55.32
6	75.00	$29.87	$9.95	$11.85	$6.04	$0.00	$57.71
7	80.00	$31.86	$9.95	$11.85	$6.44	$0.00	$60.10
8	90.00	$35.85	$9.95	$11.85	$7.25	$0.00	$64.90

PAINTER / TAPER (BRUSH, REPAINT)	1/1/2025	$37.15	$9.95	$11.85	$8.05	$0.00	$67.00

PAINTERS LOCAL 35
PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER / TAPER (BRUSH, REPAINT)

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$18.58	$9.95	$0.00	$0.00	$0.00	$28.53
2	55.00	$20.43	$9.95	$0.00	$4.43	$0.00	$34.81
3	60.00	$22.29	$9.95	$0.00	$4.83	$0.00	$37.07
4	65.00	$24.15	$9.95	$0.00	$5.23	$0.00	$39.33
5	70.00	$26.01	$9.95	$11.85	$5.64	$0.00	$53.45
6	75.00	$27.86	$9.95	$11.85	$6.04	$0.00	$55.70
7	80.00	$29.72	$9.95	$11.85	$6.44	$0.00	$57.96
8	90.00	$33.44	$9.95	$11.85	$7.25	$0.00	$62.49

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2025	$35.23	$9.90	$9.25	$6.60	$0.00	$60.98
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2025	$36.46	$9.90	$9.25	$6.60	$0.00	$62.21
	6/1/2026	$38.50	$9.90	$9.25	$6.60	$0.00	$64.25
	12/1/2026	$39.79	$9.90	$9.25	$6.60	$0.00	$65.54

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2025	$40.78	$15.57	$20.17	$0.00	$0.00	$76.52
	12/1/2025	$40.78	$15.57	$21.78	$0.00	$0.00	$78.13
	1/1/2026	$40.78	$16.17	$21.78	$0.00	$0.00	$78.73
	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56

Apprentice: PILE DRIVER

Effective Date: 8/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2	55.00	$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3	70.00	$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4	80.00	$39.35	$10.08	$11.62	$10.14	$0.00	$71.19

PIPELAYER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.48	$9.90	$9.25	$6.60	$0.00	$61.23
	12/1/2025	$36.71	$9.90	$9.25	$6.60	$0.00	$62.46
	6/1/2026	$38.75	$9.90	$9.25	$6.60	$0.00	$64.50
	12/1/2026	$40.04	$9.90	$9.25	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION	3/17/2024	$49.21	$9.55	$10.10	$7.00	$0.00	$75.86

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$22.14	$9.55	$10.10	$0.00	$0.00	$41.79
2	50.00	$24.61	$9.55	$10.10	$0.00	$0.00	$44.26

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
3	55.00	$27.07	$9.55	$10.10	$0.00	$0.00	$46.72
4	60.00	$29.53	$9.55	$10.10	$0.00	$0.00	$49.18
5	65.00	$31.99	$9.55	$10.10	$0.00	$0.00	$51.64
6	70.00	$34.45	$9.55	$10.10	$0.00	$0.00	$54.10
7	75.00	$36.91	$9.55	$10.10	$0.00	$0.00	$56.56
8	80.00	$39.37	$9.55	$10.10	$0.00	$0.00	$59.02
9	80.00	$39.37	$9.55	$10.10	$7.00	$0.00	$66.02
10	80.00	$39.37	$9.55	$10.10	$7.00	$0.00	$66.02

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION	3/17/2024	$49.21	$9.55	$10.10	$7.00	$0.00	$75.86
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$35.48	$9.90	$9.25	$6.60	$0.00	$61.23
	12/1/2025	$36.71	$9.90	$9.25	$6.60	$0.00	$62.46
	6/1/2026	$38.75	$9.90	$9.25	$6.60	$0.00	$64.50
	12/1/2026	$40.04	$9.90	$9.25	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2024	$32.54	$9.90	$9.25	$5.53	$0.00	$57.22
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2025	$36.23	$9.90	$9.25	$6.19	$0.00	$61.57
	12/1/2025	$37.46	$9.90	$9.25	$6.19	$0.00	$62.80
	6/1/2026	$39.50	$9.90	$9.25	$6.19	$0.00	$64.84
	12/1/2026	$40.79	$9.90	$9.25	$6.19	$0.00	$66.13
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS	12/1/2024	$31.79	$9.90	$9.25	$5.53	$0.00	$56.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS - ZONE 4 (BUILDING & SITE)							
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	10/2/2024	$42.38	$10.35	$8.70	$9.30	$0.00	$70.73
	7/16/2025	$43.88	$10.35	$8.70	$9.30	$0.00	$72.23
	10/2/2025	$44.88	$10.35	$8.70	$9.30	$0.00	$73.23
	7/16/2026	$46.88	$10.35	$8.70	$9.30	$0.00	$75.23
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	10/2/2024	$41.88	$10.35	$8.70	$9.30	$0.00	$70.23
	7/16/2025	$43.38	$10.35	$8.70	$9.30	$0.00	$71.73
	10/2/2025	$44.38	$10.35	$8.70	$9.30	$0.00	$72.73
	7/16/2026	$46.38	$10.35	$8.70	$9.30	$0.00	$74.73

Apprentice: ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg)

Effective Date: 10/2/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$25.13	$10.35	$0.00	$0.00	$0.00	$35.48
2	65.00	$27.22	$10.35	$8.70	$9.30	$0.00	$55.57
3	70.00	$29.32	$10.35	$8.70	$9.30	$0.00	$57.67
4	75.00	$31.41	$10.35	$8.70	$9.30	$0.00	$59.76
5	80.00	$33.50	$10.35	$8.70	$9.30	$0.00	$61.85
6	85.00	$35.60	$10.35	$8.70	$9.30	$0.00	$63.95
7	90.00	$37.69	$10.35	$8.70	$9.30	$0.00	$66.04
8	95.00	$39.79	$10.35	$8.70	$9.30	$0.00	$68.14

ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248 ROOFERS LOCAL 248	10/2/2024	$42.38	$10.35	$8.70	$9.30	$0.00	$70.73
	7/16/2025	$43.88	$10.35	$8.70	$9.30	$0.00	$72.23
	10/2/2025	$44.88	$10.35	$8.70	$9.30	$0.00	$73.23
	7/16/2026	$46.88	$10.35	$8.70	$9.30	$0.00	$75.23
For apprentice rates see "Apprentice- ROOFER"							
SCRAPER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	1/1/2025	$42.23	$12.20	$10.79	$7.95	$2.13	$75.30

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.00	$5.49	$4.86	$0.00	$0.85	$30.20
2	50.00	$21.12	$6.10	$5.40	$0.00	$0.94	$33.56
3	55.00	$23.23	$6.71	$9.71	$0.00	$1.15	$40.80
4	60.00	$25.34	$7.32	$9.71	$0.00	$1.23	$43.60
5	65.00	$27.45	$7.93	$9.71	$0.00	$1.31	$46.40
6	70.00	$29.56	$8.54	$9.71	$0.00	$1.39	$49.20
7	75.00	$31.67	$9.15	$9.71	$0.00	$1.47	$52.00
8	80.00	$33.78	$9.76	$9.71	$7.95	$1.78	$62.98
9	85.00	$35.90	$10.37	$9.71	$7.95	$1.86	$65.79
10	90.00	$38.01	$10.98	$9.71	$7.95	$1.94	$68.59

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2025	$41.24	$15.57	$20.17	$0.00	$0.00	$76.98
	12/1/2025	$41.24	$15.57	$21.78	$0.00	$0.00	$78.59
	1/1/2026	$41.24	$16.17	$21.78	$0.00	$0.00	$79.19
	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2025	$41.53	$15.57	$20.17	$0.00	$0.00	$77.27
	12/1/2025	$41.53	$15.57	$21.78	$0.00	$0.00	$78.88
	1/1/2026	$41.53	$16.17	$21.78	$0.00	$0.00	$79.48
	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER SPRINKLER FITTERS LOCAL 669 SPRINKLER FITTERS LOCAL 669	4/1/2023	$47.43	$11.45	$7.20	$9.41	$0.00	$75.49

Apprentice: SPRINKLER FITTER

Effective Date: 4/1/2023

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$21.34	$8.22	$0.00	$0.00	$0.00	$29.56
2	50.00	$23.72	$8.22	$0.00	$0.00	$0.00	$31.94
3	55.00	$26.09	$11.45	$7.20	$0.00	$0.00	$44.74
4	60.00	$28.46	$11.45	$7.20	$1.15	$0.00	$48.26

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SPRINKLER FITTER							
Effective Date: 4/1/2023							
Step / Percent		**Apprentice Base Wage**					
5 / 65.00		$30.83	$11.45	$7.20	$1.15	$0.00	$50.63
6 / 70.00		$33.20	$11.45	$7.20	$1.40	$0.00	$53.25
7 / 75.00		$35.57	$11.45	$7.20	$1.40	$0.00	$55.62
8 / 80.00		$37.94	$11.45	$7.20	$1.40	$0.00	$57.99
9 / 85.00		$40.32	$11.45	$7.20	$1.40	$0.00	$60.37
10 / 90.00		$42.69	$11.45	$7.20	$1.40	$0.00	$62.74
TELECOMMUNICATION TECHNICIAN	12/29/2024	$51.06	$13.25	$8.23	$6.83	$0.00	$79.37
ELECTRICIANS LOCAL 7	6/29/2025	$52.16	$13.50	$8.31	$6.90	$0.00	$80.87
ELECTRICIANS LOCAL 7	12/28/2025	$53.26	$13.75	$8.40	$6.96	$0.00	$82.37
	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 12/29/2024							
Step / Percent		**Apprentice Base Wage**					
1 / 40.00		$20.42	$7.35	$0.61	$0.00	$0.00	$28.38
2 / 45.00		$22.98	$7.35	$0.69	$0.00	$0.00	$31.02
3 / 50.00		$25.53	$13.25	$7.47	$0.00	$0.00	$46.25
4 / 55.00		$28.08	$13.25	$7.54	$0.00	$0.00	$48.87
5 / 65.00		$33.19	$13.25	$9.74	$0.00	$0.00	$56.18
6 / 70.00		$35.74	$13.25	$11.19	$0.00	$0.00	$60.18
Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 6/29/2025							
Step / Percent		**Apprentice Base Wage**					
1 / 40.00		$20.86	$7.50	$0.63	$0.00	$0.00	$28.99
2 / 45.00		$23.47	$7.50	$0.70	$0.00	$0.00	$31.67
3 / 50.00		$26.08	$13.50	$7.53	$0.00	$0.00	$47.11
4 / 55.00		$28.69	$13.50	$7.61	$0.00	$0.00	$49.80
5 / 65.00		$33.90	$13.50	$9.84	$0.00	$0.00	$57.24
6 / 70.00		$36.51	$13.50	$11.30	$0.00	$0.00	$61.31
TERRAZZO FINISHERS	2/1/2025	$64.74	$11.49	$15.57	$8.02	$0.00	$99.82
BRICKLAYERS LOCAL 3	8/1/2025	$66.89	$11.49	$15.57	$8.02	$0.00	$101.97
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/10/2026	$68.24	$11.49	$15.57	$8.02	$0.00	$103.32
	8/1/2026	$70.44	$11.49	$15.57	$8.02	$0.00	$105.52
	2/1/2027	$71.84	$11.49	$15.57	$8.02	$0.00	$106.92

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TERRAZZO MECHANIC BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2025	$65.82	$11.49	$15.57	$7.99	$0.00	$100.87
	8/1/2025	$67.97	$11.49	$15.57	$7.99	$0.00	$103.02
	2/1/2026	$69.32	$11.49	$15.57	$7.99	$0.00	$104.37
	8/1/2026	$71.52	$11.49	$15.57	$7.99	$0.00	$106.57
	2/1/2027	$72.92	$11.49	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$32.37	$11.49	$15.57	$8.02	$0.00	$67.45
2	60.00	$38.84	$11.49	$15.57	$8.02	$0.00	$73.92
3	70.00	$45.32	$11.49	$15.57	$8.02	$0.00	$80.40
4	80.00	$51.79	$11.49	$15.57	$8.02	$0.00	$86.87
5	90.00	$58.27	$11.49	$15.57	$8.02	$0.00	$93.35

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$11.49	$15.57	$8.02	$0.00	$68.53
2	60.00	$40.13	$11.49	$15.57	$8.02	$0.00	$75.21
3	70.00	$46.82	$11.49	$15.57	$8.02	$0.00	$81.90
4	80.00	$53.51	$11.49	$15.57	$8.02	$0.00	$88.59
5	90.00	$60.20	$11.49	$15.57	$8.02	$0.00	$95.28

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$32.91	$11.49	$15.57	$7.99	$0.00	$67.96
2	60.00	$39.49	$11.49	$15.57	$7.99	$0.00	$74.54
3	70.00	$46.07	$11.49	$15.57	$7.99	$0.00	$81.12
4	80.00	$52.66	$11.49	$15.57	$7.99	$0.00	$87.71
5	90.00	$59.24	$11.49	$15.57	$7.99	$0.00	$94.29

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$11.49	$15.57	$7.99	$0.00	$69.04
2	60.00	$40.78	$11.49	$15.57	$7.99	$0.00	$75.83
3	70.00	$47.58	$11.49	$15.57	$7.99	$0.00	$82.63

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2025							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
4 / 80.00		$54.38	$11.49	$15.57	$7.99	$0.00	$89.43
5 / 90.00		$61.17	$11.49	$15.57	$7.99	$0.00	$96.22
TEST BORING DRILLER	6/1/2025	$51.70	$9.90	$9.25	$9.80	$0.00	$80.65
LABORERS	12/1/2025	$53.20	$9.90	$9.25	$9.80	$0.00	$82.15
LABORERS - FOUNDATION AND MARINE	6/1/2026	$54.75	$9.90	$9.25	$9.80	$0.00	$83.70
	12/1/2026	$56.25	$9.90	$9.25	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2025	$47.82	$9.90	$9.25	$9.80	$0.00	$76.77
LABORERS	12/1/2025	$49.32	$9.90	$9.25	$9.80	$0.00	$78.27
LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.87	$9.90	$9.25	$9.80	$0.00	$79.82
	12/1/2026	$52.37	$9.90	$9.25	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2025	$47.70	$9.90	$9.25	$9.80	$0.00	$76.65
LABORERS	12/1/2025	$49.20	$9.90	$9.25	$9.80	$0.00	$78.15
LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.75	$9.90	$9.25	$9.80	$0.00	$79.70
	12/1/2026	$52.25	$9.90	$9.25	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2025	$41.82	$15.57	$20.17	$0.00	$0.00	$77.56
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	$41.82	$15.57	$21.78	$0.00	$0.00	$79.17
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	$41.82	$16.17	$21.78	$0.00	$0.00	$79.77
	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2025	$59.93	$9.90	$9.25	$10.25	$0.00	$89.33
LABORERS	12/1/2025	$61.43	$9.90	$9.25	$10.25	$0.00	$90.83
LABORERS (COMPRESSED AIR)	6/1/2026	$62.98	$9.90	$9.25	$10.25	$0.00	$92.38
	12/1/2026	$64.48	$9.90	$9.25	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2025	$61.93	$9.90	$9.25	$10.25	$0.00	$91.33
LABORERS	12/1/2025	$63.43	$9.90	$9.25	$10.25	$0.00	$92.83
LABORERS (COMPRESSED AIR)	6/1/2026	$64.98	$9.90	$9.25	$10.25	$0.00	$94.38
	12/1/2026	$66.48	$9.90	$9.25	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR	6/1/2025	$52.00	$9.90	$9.25	$10.25	$0.00	$81.40
LABORERS	12/1/2025	$53.50	$9.90	$9.25	$10.25	$0.00	$82.90
LABORERS (FREE AIR TUNNEL)	6/1/2026	$55.05	$9.90	$9.25	$10.25	$0.00	$84.45
	12/1/2026	$56.55	$9.90	$9.25	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2025	$54.00	$9.90	$9.25	$10.25	$0.00	$83.40
LABORERS	12/1/2025	$55.50	$9.90	$9.25	$10.25	$0.00	$84.90
LABORERS (FREE AIR TUNNEL)	6/1/2026	$57.05	$9.90	$9.25	$10.25	$0.00	$86.45
	12/1/2026	$58.55	$9.90	$9.25	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							
VAC-HAUL	6/1/2025	$41.24	$15.57	$20.17	$0.00	$0.00	$76.98
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	$41.24	$15.57	$21.78	$0.00	$0.00	$78.59
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	$41.24	$16.17	$21.78	$0.00	$0.00	$79.19
	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	6/1/2025	$35.48	$9.90	$9.25	$6.60	$0.00	$61.23
LABORERS	12/1/2025	$36.71	$9.90	$9.25	$6.60	$0.00	$62.46
LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$38.75	$9.90	$9.25	$6.60	$0.00	$64.50
	12/1/2026	$40.04	$9.90	$9.25	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WATER METER INSTALLER	3/17/2024	$49.21	$9.55	$10.10	$7.00	$0.00	$75.86
PLUMBERS & PIPEFITTERS LOCAL 104							
PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION							
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Outside Electrical

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	$44.67	$8.00	$12.55	$0.00	$0.00	$65.22
GROUNDMAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	$30.58	$8.00	$5.48	$0.00	$0.00	$44.06
GROUNDMAN / TRUCK DRIVER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	$39.97	$8.00	$10.96	$0.00	$0.00	$58.93
HEAVY EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	$47.01	$8.00	$13.22	$0.00	$0.00	$68.23
JOURNEYMAN LINEMAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	9/1/2019	$51.71	$8.00	$15.55	$0.00	$0.00	$75.26

Apprentice: JOURNEYMAN LINEMAN

Effective Date: 9/1/2019

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$31.03	$8.00	$3.43	$0.00	$0.00	$42.46
2	65.00	$33.61	$8.00	$3.51	$0.00	$0.00	$45.12
3	70.00	$36.20	$8.00	$3.59	$0.00	$0.00	$47.79
4	75.00	$38.78	$8.00	$5.16	$0.00	$0.00	$51.94
5	80.00	$41.37	$8.00	$5.24	$0.00	$0.00	$54.61
6	85.00	$43.95	$8.00	$5.32	$0.00	$0.00	$57.27
7	90.00	$46.54	$8.00	$7.40	$0.00	$0.00	$61.94

TELEDATA CABLE SPLICER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	$30.73	$4.70	$0.92	$2.25	$0.00	$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	$28.93	$4.70	$0.89	$2.25	$0.00	$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	$28.93	$4.70	$0.89	$2.25	$0.00	$36.77
TRACTOR-TRAILER DRIVER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	9/1/2019	$44.67	$8.00	$12.55	$0.00	$0.00	$65.22

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.

RULES AND REGULATIONS CONCERNING DISTINCTIVE SLOW-MOVING VEHICLE EMBLEM

In accordance with the provisions of Section 7 of Chapter 90 of the General Laws as most recently amended by Chapter 684 of the Acts of 1970, and following due notice and a public hearing held on January 8, 1971 at the Registry of Motor Vehicles, 100 Nashua Street, Boston, Massachusetts, I hereby prescribe the following standards and specifications for a distinctive slow-moving vehicle emblem:

1. The minimum total construction and the dimensions of the emblem shall conform to Society of Automotive Engineers standards as last revised in June, 1967.

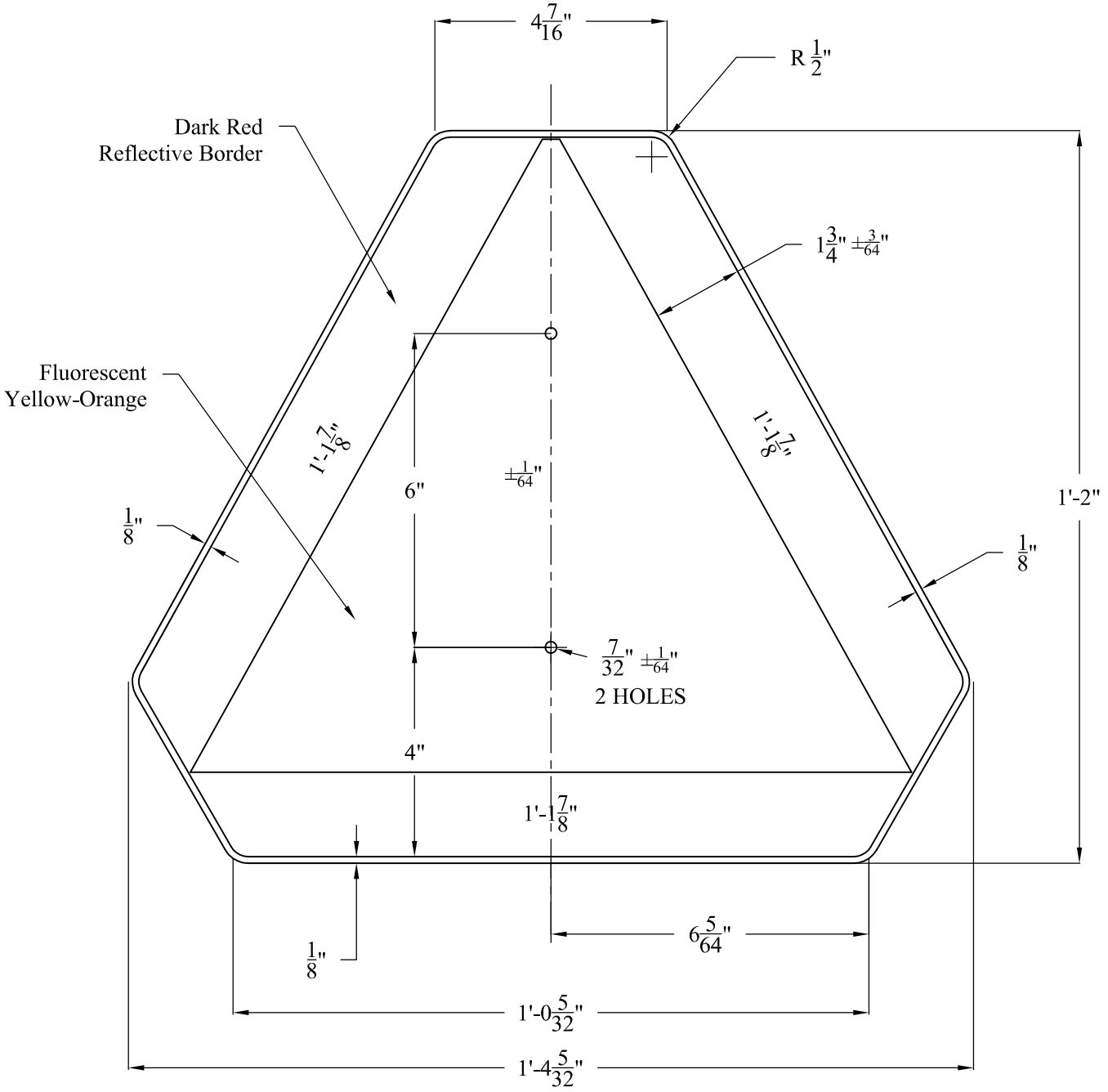
2. The emblem shall be securely mounted on the rear of the vehicle with broad base down facing squarely to the rear of said vehicle, as near to the center as possible with the bottom of the emblem not less than 3 feet nor more than 5 feet above the ground. Said emblem shall be kept clean.

Incorporated herein and made a part of these rules and regulations is the standard of the Society of Automotive Engineers, SAE-J943A as last revised in June, 1967, pertaining to a slow-moving vehicle identification emblem.

Boston, Mass., January 21, 1971

(Signed)_____
Registrar of Motor Vehicles

Filed in the Office of the
Secretary of the Commonwealth
January 22, 1971



Slow Moving Vehicle Emblem
Scale 1" = 3" ±

NOTE: Unless otherwise specified, a tolerance of ± 1/16" applies to all dimensions.

PROPOSAL

For: _____

COMMONWEALTH OF MASSACHUSETTS

LOCATION

The work referred to herein is in the Town of Lenox, County of Berkshire, Commonwealth of Massachusetts, and is shown by a set of plans and special provisions, on file in the office of the Selectmen and extends as follows:

"Lenox Community Center Ice Rink & Related Work"

To the Party of the First Part:

The undersigned, as bidder, 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.

The undersigned, as bidder, declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any other person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed form of contract, the standard specifications and plans therein referred to and the Special Provisions hereto annexed; and he proposes and agrees, if this proposal is accepted, that he will contract with the Party of the First Part, in the form of the contract referred to herein and to be annexed hereto, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the following unit prices, to wit:

The foregoing prices shall include the furnishing of all materials (except as otherwise herein specified), the performing of all the labor requisite or proper, the providing of all necessary machinery, tools, apparatus and other means of construction, the doing of all the above-mentioned work in the manner set forth, described and shown in the specifications and on the drawings for the work, and in the form of contract, and the completion thereof within the schedule enclosed in these documents.

If this proposal shall be accepted and the undersigned shall fail to contract as aforesaid and to give a performance and payment bond in the sum to be determined as aforesaid with surety satisfactory to the Party of the First Part within fourteen (14) calendar days from the date of the mailing of notice from the Party of the First Part to him, according to the address herewith given, that the contract is ready for signature, the Party of the First Part may, at his option, determine that the Bidder has abandoned the contract, and thereupon this proposal, and the acceptance thereof shall be null and void, and the proposal guaranty submitted covering this proposal shall become the property of the PARTY OF THE FIRST PART otherwise the said proposal guaranty shall be returned to the undersigned.

Full name and address of individual, firm, partnership or corporation submitting this bid:

_____

_____

_____

_____

Address for payments, if different.

_____

_____

_____

_____

Signed by: _____ (Title)

Federal Employers Identification No. or Social Security No. _____

NOTICE: Bid shall be signed in black ink by person having proper legal authority, and the person's title should be given, such as "owner" in the case of an individual, "partner" in the case of a general partnership, "president", "treasurer" or "clerk" in the case of a corporation.

_____

(Owner or Partner) (Address) (Zip Code)

If bidder is a corporation, give the State in which incorporated and the names and business addresses of the following officers:

_____
(President)

_____
(Treasurer)

_____
(Clerk)

State here if bid is submitted by joint ventures: _____

and if any of the joint venture's is a corporation, a copy of the vote of the corporation authorizing the joint venture should be attached hereto.

The proposed surety on the bond to be given is: _____

Name _____

Home Office Address _____

Massachusetts Address (if different)

Note: Include Zip Code No. with all addresses

The Contractor acknowledges receipt of the following addenda:

No._____ Date: _____

No._____ Date: _____

No._____ Date: _____

BID FORM
Lenox Community Center Ice Rink & Related Work
(65 Walker Street Lenox, MA)

ITEM NO.	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
1	50 CY	Unclassified Excavation at _____ per Cubic Yard		
2	1 CY	Class B Rock Excavation at _____ per Cubic Yard		
3	70 CY	Gravel Borrow for Backfilling Structures & Pipes at _____ per Cubic Yard		
4	3 CY	Crushed Stone at _____ per Cubic Yard		
5	17 SY	Concrete Pads – Chillers & Water Filler at _____ per Square Yard		
6	1 TON	HMA for Water Service Connection at _____ per Ton		
7	165 LF	2" SCH 80 Electric Service Conduit, Bedding, & Backfill – Wiring etc. by other at _____ per Linear Foot		
8	165 LF	3" SCH 80 Electric Service Conduit, Bedding, & Backfill – Spare at _____ per Linear Foot		
9	1 EA	Water Service Assembly (~ 70LF ¾" Type K Copper) with Branch Tee to Yard Hydrant at _____ per Each		
10	1 EA	Water Meter Assembly, Town to Supply at _____ per Each		
11	1 EA	Water Filling Station at _____ per Each		
12	1 EA	Yard Hydrant – Frost Free at _____ per Each		
13	4 EA	Aluminum Bench at _____ per Each		
14	2 EA	Trash & Recycling Receptacles with Stone Base at _____ per Each		

Contractor: _____
(Please Print)

Date: _____

ITEM NO.	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
15	1 EA	Portable Refrigerated Ice Rink (44' x 80') – Complete in Place with Chillers, Foam Leveling and Protection Over Court at _____ per Each		
16	1 LS	Erosion, Sedimentation & Dust Control at _____ per Lump Sum		
17	1 LS	Loam, HydroSeed, Straw Mulch & Clean Up at _____ per Lump Sum		
18	1 LS	Safety Controls for Construction Operations at _____ per Lump Sum		
19	1 ALLOW	Traffic Control Services at One Thousand Five Hundred Dollars and Zero Cents___ per Allowance	$1,500.00	$1,500.00
20	1 ALLOW	Testing Services at Three Thousand Dollars and Zero Cents_____ per Allowance	$3,000.00	$3,000.00
21	1 ALLOW	Electrician Services (Meter Install, Wiring, & Connection to Chiller) at Five Thousand Dollars and Zero Cents_____ per Allowance	$5,000.00	$5,000.00
		TOTAL BASE BID =		

TOTAL OF BASE BID IN WORDS:

_____

_____

TOTAL BID = $_____

Contractor: _____
(Please Print)

Date: _____

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal 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/Title

_____
Company/Firm Name

(This Form Must Be Completed and Submitted with the Bid)

CERTIFICATE OF VOTE
(Corporations Only)

At a duly authorized meeting of the Board of Directors of the _____
Name of Corporation

held on_____ , it was voted, that
Date

_____ _____
Name Officer

of this company, be and hereby is authorized to execute contracts and bonds in the name and on behalf of said company, and affix its corporate seal hereto; and such execution of any contract or obligation in this company's name on its behalf by such officer under seal of the company, shall be valid and binding upon this company.

I hereby certify that I am the clerk of the above named corporation and that

_____ is the duly elected officer as above of said company, and that the above vote has not been amended or rescinded and remains in full force and effect as of the date of this contract.

_____ _____
Date Clerk

Corporate Seal

(This Form Must Be Completed and Submitted with the Bid)

STATE TAXES CERTIFICATION CLAUSE

I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes under law.

_____ By: _____

Signature of individual or Corporate Name (Mandatory)

Corporate Officer (Mandatory, if applicable)

_____

**Social Security # (Voluntary) or Federal Identification #

* Approval of a contract or other agreement will not be granted unless the applicant signs this certification clause.

** Your Social Security Number will be furnished to the Massachusetts Department of Revenue to determine whether you have met tax filing or tax payment obligations. Providers who fail to correct their non-filing or delinquency will not have a contract or other agreement issued, renewed, or extended. This request is made under the authority of Mass. G.L.62C s. 49.A.

(This Form Must Be Completed and Submitted with the Bid)

CERTIFICATION ON INTERNAL ACCOUNTING CONTROLS

I certify under the penalties of perjury that I, to my best knowledge and belief that the corporation has internal accounting controls as required by GL c. 30, S 39R(c), that the corporation shall maintain accurate and detailed accounts for six- (6) year after the final payment, that the corporation shall file regular statements of management concerning internal auditing controls and that the corporation has filed and will continue to file an audited financial statement as required by GL c. 30, S 39R(d).

_____ By: _____

Signature of individual or Corporate Name (Mandatory)

Corporate Officer (Mandatory, if applicable)

(This Form Must Be Completed and Submitted with the Bid)

BIDDER'S CERTIFICATION REGARDING PAYMENT
OF
PREVAILING WAGES

The undersigned bidder hereby certifies, under the pains and penalties of perjury, that the foregoing bid is based upon the payment to laborers to be employed on the project of wages in an amount no less than the applicable prevailing wage rates established for the project by the Massachusetts Department of Labor and Workforce Development. The undersigned bidder agrees to indemnify the awarding authority for, from and against any loss, expense, damages actions or claims, including any expense incurred in connection with any delay or stoppage of the project work, arising out of or as a result of (1) the failure of the said bid to be based upon the payment of the said applicable prevailing wage rates or (2) the failure of the bidder, if selected as the contractor, to pay laborers employed on the project the said applicable prevailing wage rates.

_____ _____
(Date) (Name of General Bidder)

By:_____(Signature)
(Name of Person Signing Bid)

_____
(Title)

(This Form Must Be Completed and Submitted with the Bid)

LABOR HARMONY
AND
OSHA TRAINING CERTIFICATION REQUIREMENTS

I certify under the penalties of perjury that I will provide certifications regarding labor harmony and training approved by the U.S. Occupational Safety and Health Administration for all employees to be employed at the worksite in accordance with Massachusetts General Law Chapter 30, Section 39S(a), certifying that:

- that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed at the work;
- that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successfully completion of said course with the first certified payroll report for each employee; and
- 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 Occupational Safety and Health

_____
Signature/Title

_____
Company/Firm Name

(This Form Must Be Completed and Submitted with the Bid)

Revised March, 1988

AFFIDAVIT

COMMONWEALTH OF MASSACHUSETTS
HIGHWAY DEPARTMENT
10 PARK PLAZA, BOSTON, MASSACHUSETTS

PROJECT:

The undersigned, under the pains and penalties of perjury, says that he is the sole owner, partner, president, treasurer, or other duly authorized agent or official of

_____

(Name of Bidder as appearing in submitted proposal)

_____

_____

(Address of Bidder) (Zip Code)

_____

(Telephone Number of Bidder)

and says that of his own knowledge, said bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal (s). It is understood that the signing of this AFFIDAVIT is applicable to all projects for which bids are being submitted in a multi-bid proposal.

_____

DATE Signature and title of person making affidavit

NOTE: Failure to complete this form will result in this bid being declared non-responsive and not eligible for award consideration.

SUPPLEMENTAL BID DATA

(Must be filled in by all Bidders and submitted with bid)

I. All questions must be answered and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached sheets. The Bidder may submit any additional information he desires.

A. Name of Bidder: _____

B. Permanent main office address, including zip code and telephone number:

_____

_____

C. Firm, Partnership or Corporation: Title of individual signing proposal:

_____

1. If Firm or Partnership: names of other members:

_____

_____

2. If Corporation: required data:

_____

_____

D. How many years have you been engaged in the contracting business under your present firm or trade name?

_____ years

E. Contracts on hand (Schedule these, showing amount of each contract and the appropriate anticipated dates of completion).

_____

_____

_____

_____

F. Have you ever failed to complete any work awarded to you?
If so, where and why?

_____

_____

_____

G. Have you ever defaulted on a contract?
If so, where and why?

_____

_____

_____

H. List your major equipment <u>available for this contract.</u>

_____

_____

_____

I. Experience in construction work similar in importance to this project. (Provide list of public projects completed within the past 5 years including contact names and phone numbers.)

_____
_____
_____
_____
_____
_____

II. Proposed Surety

A. Name_____

B. Home Office Address_____
_____

C. Agent's Name and Address_____
_____

Dated at _____ this day _____ day of_____, 2021

_____
(Name of Bidder)

_____

_____
(Title)

State of_____

County of_____

_____ being duly sworn deposes and says that he is _____ of _____ and that the answers to the foregoing questions and all statements therein contained are true and correct.

Subscribed and sworn before me this _____ day of _____, 2021

_____
(Notary Public)

My Commission Expires_____

DRAFT **OWNER-CONTRACTOR AGREEMENT**
FOR PUBLIC WORKS CONSTRUCTION

THIS AGREEMENT made this _____ day of _____ in the year Two Thousand and Twenty Five between _____, with a usual place of business at _____, hereinafter called the Contractor, and the Town of Lenox, acting by its Town Manager, with a usual place of business at 6 Walker Street Lenox, Massachusetts 01240, hereinafter called the OWNER.

The CONTRACTOR and the OWNER, for the consideration hereinafter named, agree as follows:

1. Scope of Work

The Contractor shall furnish all labor, materials, equipment and insurance to perform all work required for the project known as **Lenox Community Center Ice Rink & Related Work**, in strict accordance with the Contract Documents and all related Drawings and Specifications. The said Documents, Specifications, Drawings and any GENERAL SUPPLEMENTARY CONDITIONS are incorporated herein by reference and are made a part of this Agreement.

2. Contract Price

The Owner shall pay the Contractor for the performance of this Agreement, subject to additions and deductions provided herein, in current funds, the sum of _____Dollars and _____Cents ($_____).

3. Commencement and Completion of Work and Liquidated Damages

It is agreed that time is of the essence of this Agreement The Contractor shall commence and prosecute the work under this Agreement upon execution hereof and shall substantially complete the work on or before _____, and finally complete the work on or before _____.

A. Definition of Term: The Term "Substantial completion" shall mean the date certified by the Owner when construction is sufficiently complete, in accordance with the Contract Documents, so the Owner may occupy the project, or designated portion(s) thereof, for the use for which it is intended.

B. Time as Essential Condition: It is understood and agreed that the commencement of and substantial completion of the work are essential conditions of this Agreement. It is further agreed that time is of the essence for each and every portion of the Contract Documents wherein a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the Contract Documents any additional time is allowed for the completion of any work, the new time fixed by such extension shall be of the essence of this Agreement. It is understood and agreed that the times for the completion of the work are reasonable, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

C. Progress and Completion: Contractor shall commence work promptly upon execution of this Agreement and shall prosecute and complete the work regularly, diligently and uninterruptedly at such a rate of progress as will insure Substantial Completion within the stipulated number of calendar days.

D. Liquidated Damages: It is expressly agreed between the Contractor and the Owner that the Contractor will be responsible for all damages which may arise due to the Contractor's failure to substantially complete the work within the above specified time. If the Contractor shall neglect, fail or refuse to complete the work within the specified number of days, or any extension thereof authorized by the Owner, Contractor agrees, as a part of the consideration for the execution of this Contract by the Owner, to pay the Owner the amount specified herein, not as a penalty, but as liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day, excluding Saturdays, Sundays and legal Holidays, that the Contractor shall be in default of Substantial completion after the date specified in the Agreement. Due to the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain, said amount is agreed to be the amount of damages which the Owner would sustain, and said amount shall be retained from time to time by the Owner from current periodic estimates. The amount of liquidated damages shall be $1,000 per day.

4. Performance of the Work

A. Direction of the Work: The Contractor shall supervise and direct the Work, using his best skills and attention which shall not be less than such state of skill and attention generally rendered by the contracting profession for projects similar to the Project in scope, difficulty and location. The Contractor shall maintain adequate supervisory personnel at the project site during the performance of the Work. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Agreement.

B. Responsibility for the Work:

1) The Contractor shall be responsible to the Owner for the acts and omissions of his employees, Subcontractors and their agents and employees, and other persons performing any of the Work under a contract with the Contractor. This obligation shall also extend to the presence on the Site of suppliers of materials or equipment, their employees, contractors, and agents engaged in the work.

2) The Contractor shall not be relieved from his obligations to perform the Work in accordance with the Contract Documents either by the activities or duties of the Owner in its administration of the Agreement, or by inspections, tests or approvals required or performed by persons other than the Contractor.

C. Permits and Fees: Unless otherwise expressly provided, the Contractor shall secure and pay for all permits and fees, licenses and inspections necessary for the proper execution and completion of the Work which are customarily secured after execution of the Agreement and which are legally required at the time the bids are received, and the same shall at all times be the property of the Owner and shall be delivered to the Owner upon completion of the Project.

D. Notices, Compliance With Laws:

1) The Contractor shall give all notices and comply with all federal, state and local laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the performance of the Work. The Contractor shall provide the Owner with reproductions of all permits, licenses and receipts for any fees paid. The Owner represents that it has disclosed to the Contractor all orders and requirements known to the Owner of any public authority particular to this Agreement.

2) If the Contractor observes that any of the Contract Documents are at variance with applicable laws, statutes, codes and regulations in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be accomplished by appropriate modification.

3) If the Contractor performs any Work, which he knows or should know is contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility therefor and shall bear all costs attributable thereto.

4) In the performance of the Work, the Contractor shall comply with all applicable federal, state and local laws and regulations including those relating to workplace and employee safety. The Contractor shall notify the Owner immediately of any conditions at the place of the work which violate said laws and regulations and shall take prompt action to correct and eliminate any such violations.

E. Project Superintendent: The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site at all times during the progress of the Work. The superintendent shall represent the Contractor and all communications given to the superintendent shall be as binding as if given to the Contractor. Important communications shall be confirmed in writing. Other communications shall be so confirmed on written request in each case.

F. Progress Schedule: The Contractor, immediately after being awarded the Contract, shall prepare and submit for the Owner's information an estimated progress schedule for the Work. The progress schedule shall be related to the entire Project to the extent required

by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

G. Drawings, Specifications and Submittals:

1) The Contractor shall maintain at the site for the Owner one record copy of all Drawings, Specifications, Addenda, Change Orders and other Modifications, and "As-Built" Drawings and Specifications in good order and marked currently to record all changes made during construction, and approved Shop Drawings, Product Data and Samples. These shall be delivered to the Owner upon completion of the Work.

2) By approving and submitting Shop Drawings, Product Data and Samples, the Contractor represents that he has determined and verified all materials, field measurements, and field construction criteria related thereto, or will do so, and that he has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

3) The Contractor shall not relieved of responsibility for any deviation from the requirements of the Contract Documents by the Owner's approval of Shop Drawings, Product Data or Samples unless the Contractor has specifically informed the Owner in writing of such deviation at the time of submission and the Owner has given written approval to the specific deviation. The Contractor shall not be relieved from responsibility for errors or omissions in the Shop Drawings, Product Data or Samples by the Owner's approval thereof.

4) The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data or Samples, to revisions other than those requested by the Owner on previous submittals.

5) No portion of the Work requiring submission of a Shop Drawing, Product Data or Sample shall be commenced until the submittal has been approved by the Owner or Owner’s representative. All such portions of the Work shall be in accordance with approved submittals.

H. Protection of the Work and Owner's Property: The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this Agreement. He shall at all times safely guard and protect his own work, and that of adjacent property from damage. The Contractor shall replace or make good any such damage, loss or injury. The Contractor shall clean the work area and restore it to its original condition upon completion of the work.

I. Quality of the Work: The Contractor shall perform the work in a good, workmanlike manner. The Contractor hereby guarantees that the entire work constructed by him under

the Agreement will meet fully all requirements thereof as to quality of workmanship and materials. The Contractor hereby agrees to make at his own expense any repairs or replacements made necessary by defects in materials or workmanship supplied to him that become evident within one (1) year after the date of the final payment, and to restore to full compliance with the requirements set forth herein any part of the work constructed hereunder, which during said one (1) year period is found to be deficient with respect to any provisions of the Contract Documents. The Contractor also agrees to hold the Owner harmless from claims of any kind arising from damage due to said defects. The Contractor shall make all repairs and replacements promptly upon receipt of written orders for same from the Owner. If the Contractor fails to make the repairs and replacements promptly, the Owner may do the work and the Contractor shall be liable to the Owner for the cost thereof.

J. Warranty: The Contractor guarantees to Owner that all materials incorporated into the work will be new unless otherwise specified or agreed. Prior to final payment, the Contractor shall deliver to the Owner all manufacturers' warranties, together with such endorsements or assignments as are necessary to ensure to the Owner the full rights and benefits of such warranties.

5. Affirmative Action/Equal Employment Opportunity

The Contractor is directed to comply with all applicable State Laws, Ordinances, Bylaws, and rules and regulations regarding affirmative action/equal employment opportunity requirements. Failure of the Contractor to comply with any such law, rule or regulation shall constitute grounds for the Owner to terminate the Agreement.

6. Site Information Not Guaranteed; Contractor's Investigation

All information given in the Contract Documents relating to subsurface and other conditions, natural phenomena, existing pipes, and other structures is from the best sources at present available to the Owner. All such information is furnished only for the information and convenience of the Contractor and is not guaranteed.

It is agreed and understood that the Owner does not warrant or guarantee that the subsurface or other conditions, natural phenomena, existing pipes, or other structures encountered during construction will be the same as those indicated in the Contract Documents.

Contractor has familiarized himself with the nature and extent of the Contract Documents, work, locality, and with all local conditions and federal, state, and local laws, rules, ordinances, and regulations that in any manner may affect costs, progress, or performance of the work. Contractor has made, or has caused to be made, examinations, investigations, and tests and studies of such reports and related data in addition to those referred to in the paragraph above as he deems necessary for the performance of the work at the Contract Price, within the Contract Time, and in accordance with the other Terms and Conditions of the Contract Documents; and no additional examinations, tests, investigations, reports, and similar data are or will be required by the Contractor for such purposes.

Contractor has correlated the results of all such observations, examinations, investigations, tests, reports, and data with the Contract Documents. Contractor has given the Owner written notice of all conflicts, errors, or discrepancies that he has discovered in the Contract Documents, and the resolution thereof by the Owner is acceptable to the Contractor.

It is further agreed and understood that the Contractor shall not use or be entitled to use any of the information made available to him or obtained in any examination made by him in any manner as a basis of or ground for any claim or demand against the Owner, arising from or by reason of any variance which may exist between the information made available and the actual subsurface conditions or other conditions or structures actually encountered during the construction work, except as may otherwise be expressly provided for in the Contract Documents.

7. Project Architect/Engineer

There is a project Architect/engineer for this project who is Foresight Land Services of Pittsfield, Massachusetts. Except as otherwise indicated in the Contract Documents, the Architect/Engineer shall be a representative of the Owner and the Contractor shall direct all communications, questions and comments on the work and the performance thereof to the Town Engineer. Except as otherwise provided, the Architect/Engineer shall have all the authority of the Owner set forth in the Contract Documents. In general, the Architect/Engineer shall have the authority to review the performance of the work, reject work, which is defective or otherwise does not comply with the Contract Documents and to order the Contractor to remedy defective work and take such actions which are necessary to make the work conform to the Contract Documents.

8. Wage Rates

Prevailing Wage Rates as determined by the Commissioner of the Department of Labor and Work Force Development under the provisions of Massachusetts General Laws, Chapter 149, Section 26 to 27G, as amended, apply to this project. It is the responsibility of the Contractor to provide the Town with certified payrolls with each pay application and to comply with all requirements of the above-cited statutes.

The schedules of prevailing wage rates are included in the Contract Documents.

9. Payments to the Contractor

A. The Owner shall make payment to the Contractor in accordance with the provisions of Sections 39F and 39G of Chapter 30 of the General Laws of the Commonwealth of Massachusetts. The Contractor shall submit requisitions for payment as required by said provisions and the directions of the Owner.

B. The Contractor's applications for payment shall be subject to approval by the Project Engineer and the Town.

C. Changes in the Work: No changes in the work covered by the approved Contract Documents shall be made without prior written approval of the Owner. Charges or credits for the work covered by the approved change shall be determined by one or more, or a combination of the following methods:

a. Unit bid prices previously approved.
b. An agreed lump sum.
c. The actual cost of:
    1) Labor.
    2) Materials entering permanently into the work.
    3) The ownership or rental cost of construction equipment during the time of use on the extra work.
    4) Power and consumable supplies for the operation of power and equipment.
    5) Wages to be paid.

To the cost under (c) there shall be added a fixed fee to be agreed upon but not to exceed fifteen percent (15%) of the actual cost of work. The fee shall be compensation to cover the cost of supervision, overhead, bonds, profit and any other general expenses.

D. Claims for Additional Costs: If the Contractor wishes to make a claim for an increase in the Contract Sum, he shall give the Owner written notice thereof within twenty days after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the Work, except in an emergency endangering life or property. No such claim shall be valid unless so made. Any change in the Contract Sum resulting from such claim shall be authorized by Change Order.

10. Final Inspection Report

A. Substantial Completion: Upon presentation of the Contractor's certification in writing that the work has been substantially completed, the Engineer, as the authorized representative of the Awarding Authority, shall carry out a final inspection of the work and shall either certify to the Owner that the work required under the Contract has been substantially completed, or that the work has not been substantially completed. In the latter event, the Engineer, as the duly authorized representative of the Awarding Authority, shall prepare and submit to the Contractor an itemized list of incomplete or unsatisfactory work items required by the Contract which will be sufficient to demonstrate that the work has not been substantially completed.

Substantial completion shall be as defined in Chapter 30, Section 39G of the M.G.L. as most recently amended.

B. Final Completion: Within thirty (30) days after receipt by the Awarding Authority of a notice from the Contractor stating that all of the work required by the Contract has been completed, the Awarding Authority shall prepare and forthwith send to the Contractor for acceptance a final estimate for the quantity and price of the work done and all retainage, if held by the Awarding Authority, on that work less all payments made to date, unless

the Awarding Authority's inspection shows that work items required by the Contract remain incomplete or unsatisfactory or that documentation required by the Contract has not been completed.

Final completion, as required for meeting the requirements of the Contract for completion within the specified time, shall occur when, in the opinion of the Engineer, all work required under the Contract has been completed including all items of work on punch lists issued by the Engineer.

Within fifteen (15) days after the effective date of the declaration of substantial completion, the Awarding Authority shall send to the Contractor by certified mail, return receipt requested, a complete list of all incomplete or unsatisfactory work items, and, unless delayed by causes beyond his control, the Contractor shall complete all such work items within forty-five (45) days after the receipt of such list or before the then Contract completion date, whichever is later. If the Contractor fails to complete such work within such time, the Awarding Authority may, subsequent to seven days' written notice to the Contractor by certified mail, return receipt requested, terminate the Contract and complete the incomplete or unsatisfactory work items and charge the cost of same to the Contractor.

11. Acceptance and Final Payment

Final payment shall be made pursuant to the provisions of M.G.L. Chapter 30, Section 39G or 39K, as applicable.

For unit price Contracts, the Engineer shall, as soon as practicable after the satisfactory completion of the final inspection report (Article 10), make a final estimate of the value of work constructed. This final estimate shall contain all final quantities for all items of the Contract and for all extra work authorized. This final estimate shall be submitted to the Contractor for certification.

For lump sum Contracts, the Contractor shall submit to the Engineer for review and comment a draft of the final payment request, including claims for all extra work authorized. Upon approval by the Engineer, the final payment request shall be certified by the Contractor.

The Owner shall, upon approval of the final estimate certified by the Engineer and the Contractor, issue a semi-final partial payment providing for payment of all amounts due less the percentage retainage and any amounts due the Owner.

All prior estimates and payments shall be subject to correction at the time of preparation of the final estimate.

The Owner shall not make final payment to the Contractor until Contractor has submitted, to the satisfaction of the Owner, all Certified Payroll, certificates of lien release from all subcontractors, vendors and any other parties under contract with the Contractor, as built plans, and all other documents required under this Agreement.

12. Final Payment, Effect

The acceptance of final payment by the Contractor shall constitute a waiver of all claims by the Contractor arising under the Agreement.

13. Guarantee Period

The Contractor shall guarantee all work under this Contract for a period of ONE YEAR from the date of acceptance of the final estimate for the quantity and price of work done, unless otherwise specified. The cost of the guarantee is to be included by the Contractor in his/her proposal form Contract and no additional payment will be provided.

The guarantee shall cover and include all workmanship, materials, equipment, performance, and all combinations thereof required in the work under the Contract. Any and all defects and/or deficiencies which become evident during the guarantee period shall be corrected, repaired, replaced, or otherwise remedied to the satisfaction of the Owner and Engineer at no cost of any nature to the Owner or Engineer. Any special guarantee or warranty specified in the projects shall be considered as being in addition to the general guarantee period.

14. Contract Documents

The Contract Documents consist of the following, together with this Agreement:

Invitation to Bid
This Contract Form
Bid Form
100 % Payment Bond
100 % Performance Bond
Non-Collusion Certificate
Tax Compliance Certificate
Certificate of Vote
Certificate of Insurance
Specifications
Contract Drawings
Schedule of Prevailing Wages

15. Terms Required By Law

This Agreement shall be considered to include all terms required to be included in it by the Massachusetts General Laws, and all other laws, as though such terms were set forth in full herein.

16. Indemnification

The Contractor shall indemnify and hold harmless the Owner from and against any and all claims, damages, losses, and expenses, including attorney's fees, arising out of the performance

of this Agreement when such claims, damages, losses, and expenses are caused, in whole or in part, by the acts, errors, or omissions of the Contractor or his employees, agents, subcontractors or representatives.

17. Notice

All notices required to be given hereunder shall be in writing and delivered to, or mailed first class to, the parties' respective addresses stated above. In the event that immediate notice is required, it may be given by telephone or facsimile, but shall, to the extent possible, be followed by notice in writing in the manner set forth above.

18. Termination

A. Each party shall have the right to terminate this Agreement in the event of a failure of the other party to comply with the terms of the Agreement. Such termination shall be effective upon seven days' notice to the party in default and the failure within that time of said party to cure its default.

B. The Owner shall have the right to terminate the Agreement without cause, upon ten (10) days' written notice to the Contractor. In the event that the Agreement is terminated pursuant to this subparagraph, the Contractor shall be reimbursed in accordance with the Contract Documents for all Work performed up to the termination date, and for all materials or equipment not incorporated in the Work, but delivered and suitably stored at the site. Payment for material or equipment stored at the site shall be conditioned upon submission by the Contractor of bills of sale or such other evidence as is satisfactory to Owner to establish the Owner's title to such material or equipment or otherwise protect the Owner's interests.

19. Miscellaneous

A. Royalties and Patents: The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner harmless from loss on account thereof, except that the Owner shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified; but if the Contractor believes or has reason to believe that the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the Owner, and thereafter the Owner insists on the use of the design, process or products specified.

B. Assignment: The Contractor shall not assign or transfer any of its rights, duties or obligations under this Agreement without the written approval of the Owner.

C. Governing Law: This Agreement shall be governed by and construed in accordance with the law of the Commonwealth of Massachusetts.

20. Insurance

The Contractor shall maintain, during the course of the agreement, liability insurance coverage in accordance with the requirements of the Special Provisions and Workers' Compensation insurance in accordance with the requirements of Chapter 152 of the General Laws. The Contractor shall also procure and maintain insurance coverage for damage to the work itself. Certificates of such insurance shall be provided to the Owner prior to commencement of work.

21. Retainage

Retainage will be held from each item in the amount of 10%. Release of retainage will be upon final completion of the work and as deemed appropriate by the engineer and owner.

22. Quantities May Vary

The quantities used in the bid form are an estimate based on the available data at the time of the bid. The quantities are not guaranteed. There will be no escalation in unit prices for quantities that vary from the estimated quantities regardless of the % divergence.

23. Change Orders

In the event a situation arises that a change order is necessitated, the Contractor shall discuss with Owner/Engineer and proceed upon direction of the Owner. Contractor shall not stop the work based on the necessity of a change order. If the Owner directs Contractor to proceed before final pricing of the change order is determined, then that pricing will be negotiated after the work is complete.

CERTIFICATE AS TO PAYMENT OF STATE TAXES

Pursuant to M.G.L. Chapter 62C, Section 49A, I certify under the penalties of perjury that I have complied with the laws of the Commonwealth of Massachusetts relating to taxes.

_____ _____

Social Security Number or Federal Identification Number

Signature of Individual or Corporate Name

by:_____

IN WITNESS WHEREOF, the parties hereto have set their hands and seals, the Owner by its authorized representatives who, however, incur no personal liability by reason of the execution hereof or of anything herein contained, as of the day and year first above written.

TOWN OF LENOX

_____ _____

Town of Lenox
Town Manager

In accordance with M.G.L. C.44, Section 31C, this is to certify that an appropriation in the amount of this contract is available therefor and that the Town Manager has been authorized to execute the contract and approve all requisitions and change orders.

Approved as to Availability of Funds:

Contract Sum: $

_____

Town Accountant

Table of Contents
Specific Conditions and Technical Specifications

SPECIFIC CONDITIONS

The following specific conditions are applicable to this project:

SC-1 The contractor shall make advance test pits and perform all other required procedures to locate and protect existing utilities in advance of the work. The contractor shall note that excavation test pits is included as incidental work.

SC-2 Prior to the start of work the contractor shall provide the Town of Lenox's Town Manager, Lenox Community Center's Director, and Engineer with a written schedule of operations for review and approval. Copies of the schedule shall also be provided by the contractor to the Lenox Police Department, Fire Department, Department of Public Works, Water Department and Conservation Commission for review and comment.

SC-3 Access to adjacent properties shall be provided for at all times.

SC-4 Trenches shall be backfilled and street swept at the end of each work day.

SC-5 Rock excavation shall be performed without blasting.

SC-6 A one year warranty shall be provided by the contractor for all materials and workmanship.

SC-7 Old Center Street shall be open to traffic at all times. No access shall be permitted from Walker Street.

SC-8 Contractor shall obtain any and all permits required for work within the town and state right-of-way. Any costs associated with these permits shall be considered incidental. All work is outside MassDOT Right-of-Way. If applicable, any and all requirements imposed by MassDOT for work within their Right-of-Way shall be considered incidental.

SC-9 All castings and materials shall be North American made.

SC-10 No extra payment will be made for extra depth excavation unless the grades required are deeper than the plans indicate. If the work will be necessary to be deeper than shown on the plans, the contractor shall coordinate the changed conditions with the engineer prior to starting the work.

SC-11 Contractor is responsible for limbing all tree branches which may interfere with construction activities. Contractor shall carefully remove any limbs without damaging tree and dispose off-site. The limbing operations necessary to complete the work will be considered incidental. Any and all trees to be removed will be considered incidental and the stumps and trees shall be grubbed and removed from the site.

SC-12 The contractor is responsible for removing and resetting all existing features located within the work area. These features shall include but not be limited to mailboxes, fencing of various types, street signs, lighting, landscaping and landscape mounds, stonewalls, mulch, shrubs, stone slopes/riprap, and all other physical features disturbed and/or relocated as a

result of the work. The contractor shall replace any features damaged during construction activities with new similar quality materials. The work required for site restoration and to remove, replace and or reset shall be considered incidental work.

SC-13 Contractor mobilization, demobilization and site prep will be considered incidental work.

SC-14 The existing tennis courts shall remain open at all times. Temporary 6-foot high panel fencing shall be installed around the perimeter of the work area at no additional compensation.

SC-15 The existing gravel parking area located adjacent to the courts may be used for temporary staging and construction access. Contractor shall coordinate with the Highway Department and the Lenox Community Center.

SPECIAL PROVISIONS

SCOPE OF WORK

The work shall consist of furnishing all labor, materials, equipment, and performing all operations necessary for the **Lenox Community Center Ice Rink and Related Work** as shown on the plans, as herein specified, as directed by the Field Engineer, and as evidently required to properly complete the following items:

1. Install erosion controls and temporary construction fence. Install temporary protection measures for existing courts.
2. Perform earthwork, trenching, utilities, and concrete pads.
3. Install new ice rink system complete in place. Coordinate with ice rink manufacturer.
4. Perform site grading
5. Perform related work including new site furnishings.
6. Loam and seed immediately following work.
7. Perform clean-up and incidental work as directed.
8. Provide Record Data.

WORK SCHEDULE

All bids are to be opened on July 10, 2025. All work shall be completed on or before October 31, 2025. Items remaining on punch list shall be completed by November 14, 2025.

PLANS AND SPECIFICATIONS

The location and details of the work to be done are shown on a set of plans dated June 18, 2025 and details included in the specifications. The plans along with these Special Provisions shall be supplemental to the Massachusetts Department of Public Works "Standard Specifications for Highways and Bridges," 2025 edition, as amended.

Plans and Special Provisions are on file at the office of the Community Center Director, 65 Walker Street, Lenox, MA.

GENERAL

The Contractor must satisfy himself/herself, by his/her own investigation and research, regarding conditions affecting the work to be done and the plant, equipment, labor, and materials needed, and make his/her bid in sole reliance thereon.

The Contractor shall furnish all labor and materials, tools, plant and equipment, and do all the work necessary to furnish and install and complete the work in accordance with the Special Provisions, the Plans and the Standard Specifications.

Wherever the term "Standard Specifications" is used in these Special Provisions, it shall mean the "Standard Specifications for Highways and Bridges" of the Department of Public Works of Massachusetts, 2025 Edition, and any and all other addenda and revisions thereto, along with the following additional addenda to the Standard Specifications:

Page 4 – delete "1.09 Commission, etc."
Page 5 – 1.17 Department – delete "Public Works" - insert "The Town of Lenox".

Page 5 - delete paragraph 1.19

The word "Department" will refer to the "Town of Lenox," and the term "Engineer" will refer to Foresight Land Services, Consulting Engineers for the Town.

Note: The work required in the following sections will be considered incidental work to the contract unless otherwise specified.

INSPECTION OF WORK

A Field Engineer, appointed by the Town, will be present when critical portions of the work are being performed. Whenever the term "Field Engineer" appears in these documents, it shall be interpreted as meaning the authorized inspector appointed to the Town.

No materials shall be used and/or paid for under this contract which have not been examined and passed by the owner and engineer or for any reason placed outside the prescribed limits of work.

EXAMINATION OF CONTRACT DOCUMENTS

Bidders shall thoroughly examine and be familiar with the Plans and Specifications. The failure or omission of any bidder to receive or examine any form, instrument, or document or to visit the site and acquaint themselves with conditions there existing, shall in no way relieve any bidder from any obligations with respect to his/her bid. By submitting a bid, the bidder agrees and warrants that he has examined the site and the Specifications and Plans, and where the Specifications require in any part of the work a given result to be produced that the Specifications and Plans are adequate to produce the required results. Any work called for in the Specifications and not shown on the Plans, or any work shown on the Plans and not called for in the Specifications shall be considered as called for in both. The Contractor shall furnish his/her own copy of the "Standard Specifications" and amendments thereto, and shall ensure that a copy is available for reference at the work site.

SOIL DATA

The Contractor must satisfy himself/herself, by his/her own investigation and research regarding conditions affecting the work to be done and the plant, equipment, labor, and materials needed, and make his/her bid in sole reliance thereon.

SURVEYING CONTROL

Survey benchmarks are shown on the plans. These reference marks will be recovered by the Engineer prior to the start of the work.

The Contractor shall provide at his/her own expense all materials and labor as may be required to establish all project control range lines, additional reference marks and line and grade stakes. The Contractor's plan for project control shall be submitted to the Engineer for approval prior to starting any work.

If the Contractor, through willfulness or carelessness, removes or permits to be removed such reference marks before the prosecution of the work requires it, they shall be replaced at his/her own expense. All work shall conform, during its progress and on its completion, truly to the lines and grades shown on the Plans, and shall be done in a thoroughly substantial and

workmanlike manner, in accordance with the plans and directions given by the Field Engineer from time to time as shall be deemed necessary by him during its execution.

The vertical datum referred to in these Special Provisions and shown on the plans is that established by the Engineer during the preliminary surveys for the work herein described.

CONFORMITY WITH PLANS AND SPECIFICATIONS (Supplementing Section 5.03)
The Contractor shall make his/her own determination of dimensions and details in the field and have no claim for differences between the plan and the actual field measurements. In all phases of the work, the Contractor will be required to conform to all local regulations as to proper use of highways, bridges, etc. The Contractor shall so limit his/her operations and carry on his/her work in such manner and sequence as to insure the lease possible interference with traffic.

Special attention is called to the requirements of Section 7.09, 7.10, 7.11, General Requirements and Covenants of the "Standard Specifications".

SCHEDULE OF OPERATIONS AND TRAFFIC DETOURS (Supplementing Subsection 8.02)
At least one week prior to starting construction, the Contractor shall submit to the Engineer and to the Board of Selectmen, Public Works Superintendent and Chief of Police, for information purposes, the schedule outlined in their bid submission, with any revisions highlighted. The schedule should include their proposed operations, including traffic detour schedule. Acceptance of such schedule of operations shall not in any way remove sole responsibility and liability from the Contractor for any and all damage occurring during the duration of the job caused by faulty construction, improper procedure or negligence.

Work on this project is restricted to a normal eight (8) hour day, five (5) day week, with the prime contractor and all subcontractors working on the same shift. No work shall be performed under this contract on Sundays, or Legal Holidays.

In all phases of the work, the Contractor will be required to conform to all local regulations as to proper use of highways, bridges, etc.

The Contractor shall so limit his/her operations and carry on his/her work in such manner and sequence as to ensure the least possible interference with traffic and pedestrian flow. Special attention is called to the requirements of Sections 7.09, 7.10, 7.11, General Requirements and Covenants of the "Standard Specifications".

PROSECUTION OF WORK (Supplementing Subsection 8.03) Mandatory
The Contractor shall secure his/her equipment outside of the limits of the roadway when not actually working so that the flow of pedestrians and vehicular traffic will not be obstructed.

ACCESS TO THE WORK SITE
The Contractor shall construct at his/her own expense such temporary access roads as may be necessary for his/her equipment, men and materials to reach the sites of the work and to carry out the terms of the contract. Upon completion of the work, all temporary access roads shall be removed and the areas graded, seeded and mulched and otherwise restored to their original

conditions satisfactory to the Engineer. Particular attention shall be paid to prevention of erosion and siltation of watercourses caused by wheel tracks and ruts.

PUBLIC SAFETY AND CONVENIENCE (Supplementing Subsection 7.09)
The Contractor's attention is called to the following:

- Industrial Bulletin No. 13-U.S. Department of Labor.
- Rules and Regulation for Structural Painting-Occupational Safety and Health Administration.
- Department of Labor and Industries, Commonwealth of Massachusetts-Construction Standards, Volume 37, No. 243, Part III, Issued December 16, 1972.

BARRICADES AND WARNING SIGNS (Supplementing Subsection 7.10)
All automotive equipment not protected by traffic cones or flares, that are working on a project, which is open to traffic, shall have one amber flashing warning light mounted on the roof or the highest practical point of the machinery. These lights shall be in operation whenever the equipment is working on the highway and/or traveling in the work area at a speed less than 20 MPH.

Amber flashers must be visible to both oncoming and overtaking vehicular traffic and shall have a minimum of 32 candlepower and a flashing frequency of 50-60 times per minute.

All vehicles, excepting passenger cars, which are assigned to the project and which operate at speeds of 25 MPH or less, shall have an official SLOW MOVING VEHICLE EMBLEM displayed.

On a project that is open to traffic, all personnel who are working on the traveled way or breakdown lanes and who are not protected by traffic cones shall wear approved safety vests.

PRECAUTIONS UNDER ELECTRIC LINES
The bidders attention is directed to the AASHTO Guide on Occupational Safety on Highway Construction Projects, Subpart N, 1926.550, relating to construction equipment clearances at overhead electric lines, which states in part "…The minimum clearance between the lines and any part of the crane or load must be at least 10 feet from lines rated 50KV or below, and greater distances for higher voltage...".

RESPONSIBILITY FOR DAMAGE CLAIMS
The Contractor's attention is called to Section 7.14 of the "Standard Specifications", "Responsibility for Damage Claims".

Particular attention of all bidders is called to Section 8.03, 8.10, and 8.11 of the "Standard Specifications" which refer to "Prosecution of Work", "Determination and Extension of Contract Time for Completion" and "Failure to Complete Work in Time".

Attention is called to the fact that Minimum Wage Rates are established for the project and are set forth herein.

INSURANCE REQUIREMENTS

See Section 7.05 of the "Standard Specifications" for Insurance Requirements.

The minimum limits of the several kinds of liability insurance required for this contract are as follows:

Contractor's Public Liability	$2,000,000/4,000,000
Contractor's Property Damage Liability	$2,000,000/2,000,000
Contractor's Protective Public Liability	$2,000,000/4,000,000
Contractor's Protective Property Damage	$2,000,000/4,000,000

WETLANDS PROTECTION ACT

Work under this contract will not take place within the areas regulated by the Wetlands Protection Act MGL Chapter 131. The Contractor shall ensure that adequate measures are taken to prevent release of sediment or other pollutants into storm drains, watercourses, or wetland areas.

Disturbance of adjacent areas will not be allowed. Erosion controls shall be placed at a minimum along the down gradient limits of work where erosion and sedimentation could occur.

AVAILABLE FUNDS

The Town reserves the right to eliminate any portion of the work under this contract, in order to bring the total expenditure within the amount available for the project or to comply with any conditions of permits obtained for this project, and to limit the prosecution of the work to such points and in such order as may be directed, without any adjustment in the contract prices for the Items, unless otherwise specified in these Special Provisions.

PLANT PEST CONTROL

All soil moving equipment operating in regulated areas in Massachusetts will be subject to plant quarantine regulations. In general, these regulations require the thorough cleaning of soil from equipment by the Contractor before such equipment is moved from regulated areas within Massachusetts to uninfested areas either within or without the Commonwealth. The cost of such cleaning shall be included in the contract price and shall not be in addition thereto.

Complete information may be obtained from the Massachusetts Department of Agriculture, Plant Pest Control Division, 100 Cambridge Street, Boston. For interstate movement of soil moving equipment, the following should be contacted:

U.S. Department of Agriculture
Plant Pest Control
424 Trapelo Road - Waltham, Massachusetts 02154

PREVENTION OF WATER POLLUTION-SANITARY PROVISIONS
(Supplementing Section 7.02)
Storm drains in the public way discharge to protected wetland resource areas.
During the performance of all work under this contract, the Contractor shall adopt such precautions in the conduct of his/her operation as may be necessary to avoid contaminating water in the river. All earthwork, grading, moving of equipment, water control and other operation likely to create silting, shall be so planned and conducted as to minimize pollution in the river. Water used for any purpose whatsoever by the Contractor, which has become contaminated with soil, bitumen, salt, concrete or other pollutants shall not be discharged in the river. Under no circumstances shall the Contractor discharge pollutants into the river. Note: The Contractor shall not store fuel nor permit any refueling of construction equipment while such equipment is within 100 feet of any storm drain or watercourse that drains to the river.

EXECUTIVE ORDER #195
In compliance with Executive Order #195 of the Governor of the Commonwealth, the Governor or his/her designee, the Secretary of Administration and Finance, and the State Auditor or his/her designee shall have the right, at reasonable times, and upon reasonable notice, to examine the books, records, and other compilations of data of the contractor which pertain to the performance of the provisions and requirements of this contract.

OVERLOADED TRUCKS
The Department will not accept any materials delivered to any project in motor vehicles or semi-trailer units that exceed the legal maximum gross weight allowed for the particular class, as specified in Section 19A of Chapter 90 of the General Laws of Massachusetts. The provisions of Subsection 7.03 of the Standard Specifications shall still apply.

EXECUTIVE ORDER #130 (Anti-Boycott Covenant)
The Contractor warrants, represents and agrees that during the time this contract is in effect, neither it nor any affiliated company, as hereafter defined, participates in or cooperates with an international boycott, as defined in Section 999 (b) (3) and (4) of the Internal Revenue Code of 1954, as amended, or engages in conduct declared to be unlawful by Section 2 of Chapter 151 E, Massachusetts General Laws. If there shall be a breach in the warranty, representation and agreement contained in this paragraph, then without limiting such other rights as it may have the Commonwealth shall be entitled to rescind this contract.

As used herein, an affiliated company shall be any business entity of which at least 51% of the ownership interests are directly or indirectly owned by the Contractor or by a person or persons or business entity or entities directly or indirectly owning at least 51% of the ownership interests of the contractor, or which directly or indirectly owns at least 51% of the ownership interests of the contractor.

STEEL AND CEMENT
Supplementing Subsection 6.01 Source of Supply and Quality)
All Steel and cement must be produced in the United States. The determination of foreign or domestic character will be based on the place of manufacture, and the origin of more that 50% of its components. Foreign cement and steel can be used if the cost of those materials does not exceed 0.1% of the total contract cost or $2,500, whichever is greater.

DISPOSAL AREA

All excavated rock and surplus earth materials, shall be properly disposed of offsite. The Contractor shall ensure that disposal is in accordance with all applicable local, state, and federal regulations.

TEMPORARY SANITARY FACILITIES

Contractor shall provide an adequate number of toilet facilities with chemical type toilets, hand washing facilities and temporary lighting rented from and serviced by an approved company, as necessary for all persons engaged on the work.

Toilets shall be erected onsite, and shall be maintained by the Contractor in a clean and orderly condition in compliance with all local and State health requirements, and shall be removed upon substantial completion of the work.

EASEMENTS

The work will be performed within the Town right-of-way or on Town-owned property. Temporary easements may be required on private properties. The contractor shall take special care when working on or near private property and communicate with property owners and occupants during the work.

PHOTOGRAPHS

The Contractor shall furnish the Engineer suitable 8" x 10" color photographs of the project in digital format and a VHS or digital video recording along the entire route.

The following photographs shall be provided: a sufficient number of exposures in the project area and the surrounding areas to document all of the existing conditions.

Photographs shall be taken prior to start of any work.

Each photograph shall have permanently written on its face, a legible description or title indicating date, location, direction from which taken, project title, and item of work photographed. A sketch showing the location and direction of each photograph shall be submitted along with the photographs.

The cost of furnishing photographs shall be included in the prices bid for the various pay items provided for in this contract.

RECORD DRAWINGS

Upon completion of all work under this contract, the Contractor is required to submit to the Engineer, a neatly marked up set of plans showing record information. The cost of furnishing record data shall be included in the prices bid for the various pay items provided for in this contract.

DIG SAFE NOTIFICATION

Contractor shall fully comply with “Dig Safe” programs and shall coordinate with other utility companies and local public works department for location of any and all facilities, and shall

notify proper authorities before proceeding with any excavation. Contractor shall submit to Owner's Representative his/her Dig-Safe verification number prior to beginning excavation.
Dig Safe 1 (888) 344-7233 or 8-1-1

PRICE ADJUSTMENT REQUIREMENTS FOR CITIES AND TOWNS
(M.G.L. Chapter 30, Section 38A)

All municipalities are required to include price adjustment clauses for diesel fuel, gasoline, liquid asphalt, Portland cement concrete, and steel for all construction contracts for road, bridge, water and sewer projects advertised for bid and awarded under Chapter 30 Section 39M after January 1, 2014.

The exact language of M.G.L Chapter 30, Section 38A states:

"Contracts for road and bridge projects awarded as a result of a proposal or invitation for bids under section 39M shall include a price adjustment clause for each of the following materials: fuel, both diesel and gasoline; asphalt; concrete; and steel. Contracts for water and sewer projects awarded as a result of a proposal or invitation for bids under said section 39M shall include a price adjustment clause for fuel, both diesel and gasoline; liquid asphalt; and Portland cement contained in cast-in-place concrete. A base price for each material shall be set by the awarding authority or agency and shall be included in the bid documents at the time the project is advertised. The awarding authority or agency shall also identify in the bid documents the price index to be used for each material. The price adjustment clause shall provide for a contract adjustment to be made on a monthly basis when the monthly cost change exceeds plus or minus 5 per cent."

DOCUMENT 00812
SPECIAL PROVISIONS
MONTHLY PRICE ADJUSTMENT FOR DIESEL FUEL AND GASOLINE – ENGLISH UNITS
Revised: 01/26/2009

This monthly fuel price adjustment is inserted in this contract because the national and worldwide energy situation has made the future cost of fuel unpredictable. This adjustment will provide for either additional compensation to the Contractor or repayment to the Commonwealth, depending on an increase or decrease in the average price of diesel fuel or gasoline.

This adjustment will be based on fuel usage factors for various items of work developed by the Highway Research Board in Circular 158, dated July 1974. These factors will be multiplied by the quantities of work done in each item during each monthly period and further multiplied by the variance in price from the Base Price to the Period Price.

The Base Price of Diesel Fuel and Gasoline will be the price as indicated in the Department's web site (www.mhd.state.ma.us) for the month in which the contract was bid, which includes State Tax.

The Period Price will be the average of prices charged to the State, including State Tax for the bulk purchases made during each month.

This adjustment will be effected only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

No adjustment will be paid for work done beyond the extended completion date of any contract.

Any adjustment (increase or decrease) to estimated quantities made to each item at the time of final payment will have the fuel price adjustment figured at the average period price for the entire term of the project for the difference of quantity.

The fuel price adjustment will apply only to the following items of work at the fuel factors shown:

ITEMS COVERED	**FUEL FACTORS**	
	Diesel	**Gasoline**
Excavation and Borrow Work:	0.29 Gallons / CY	0.15 Gallons / CY
Surfacing Work: All items containing Hot Mix Asphalt	2.90 Gallons / TON	Does Not Apply

END OF SECTION 00812

DOCUMENT 00814
SPECIAL PROVISIONS
PRICE ADJUSTMENT FOR PORTLAND CEMENT CONCRETE MIXES
January 12, 2009

This provision applies to all projects using greater than 100 Cubic Yards (76 Cubic Meters) of Portland cement concrete containing Portland cement as stipulated in the Notice to Contractors section of the Bid Documents. This Price Adjustment will occur on a monthly basis.

The Price Adjustment will be based on the variance in price for the Portland cement component only from the Base Price to the Period Price. It shall not include transportation or other charges.

The Base Price of Portland cement on a project is a fixed price determined at the time of bid by the Department by using the same method as for the determination of the Period Price (see below) and found in the Notice to Contractors.

The Period Price of Portland cement will be determined by using the latest published price, in dollars per ton (U.S.), for Portland cement (Type I) quoted for Boston, U.S.A. in the **Construction Economics** section of *ENR Engineering News-Record* magazine or at the ENR website http://www.enr.com under **Construction Economics**. The Period Price will be posted on the MassDOT website the Wednesday immediately following the publishing of the monthly price in ENR, which is normally the first week of the month.

The Contract Price of the Portland cement concrete mix will be paid under the respective item in the Contract. The price adjustment, as herein provided, upwards or downwards, will be made after the work has been performed, using the monthly period price for the month during which the work was performed.

The price adjustment applies only to the actual Portland cement content in the mix placed on the job in accordance with the Standard Specifications for Highways and Bridges, Division III, Section M4.02.01. No adjustments will be made for any cement replacement materials such as fly ash or ground granulated blast furnace slag.

The Price Adjustment will be a separate payment item. It will be determined by multiplying the number of cubic yards of Portland cement concrete placed during each monthly period times the Portland cement content percentage times the variance in price between the Base Price and Period Price of Portland cement.

This Price Adjustment will be paid only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

No Price Adjustment will be allowed beyond the Completion Date of this Contract, unless there is a Department-approved extension of time.

END OF SECTION 00814

SECTION 02000 – SITEWORK PROCEDURES AND SPECIAL CONDITIONS

PART 1 - GENERAL

1.1 DESCRIPTION

1. Section Includes:
   (1) Subsurface Investigation
   (2) Project Directory
   (3) Site-Work Coordination
   (4) Work Limits
   (5) Work Sequence and Hours; Scheduling
   (6) Contractor's Use of Premises
   (7) Protection of Property
   (8) Protection of Existing Utilities
   (9) Contractor's Field Surveying and Engineering
   (10) Reference Standards
   (11) Construction Site Safety
   (12) Noise Control
   (13) Dust Control
   (14) Debris Control and Removal of Rubbish
   (15) Pollution Control
   (16) Construction Safety Fence
   (17) Project Identification Sign
   (18) Traffic Controls
   (19) Temporary Water and Electricity
   (20) Temporary Sanitary Facilities
   (21) Contractor's Field Office and Material Storage Area
   (22) Permits
   (23) Time for Completion
   (24) Special Conditions

PART 2 – EXECUTION

2.1 SUBSURFACE INVESTIGATION

1. Subsurface investigations for the purpose of sitework construction are the responsibility of the contractor.

2.2 PROJECT DIRECTORY

1. Owner:
   Town of Lenox
   6 Walker Street
   Tel: (413) 637-5500
   William Gop, Superintendent of Public Works

2. Site/Civil Engineers and Surveyors:
   Foresight Land Services, Inc.
   1496 West Housatonic Street, Pittsfield, MA 01201

Tel: (413) 499-1560 x112
Marc A. LeVasseur, Project Engineer

3. Dig Safe: 1-888-344-7233

4. Lenox Conservation Commission:
   6 Walker Street, Lenox, MA 01240
   Tel: (413) 637-3309
   Neal Carpenter, Chair

5. National Grid
   60 Brown Street, North Adams, MA
   Tel: (413) 664-5813

6. Berkshire Gas Co.:
   115 Cheshire Road, Pittsfield, MA 01201
   Tel: (413) 442-1511

7. Verizon:
   1899 East Street, Pittsfield, MA 01201
   (413) 499-4468

8. Spectrum
   555 Hubbard Ave, Suite 210, Pittsfield, MA 01201
   Tel: 1-888-406-7063

9. Lenox Department of Public Works
   275 Main Street, Lenox, MA 01240
   Tel: (413) 637-5525
   William Gop, Superintendent of Public Works

2.3 PROJECT COORDINATION

1. The Contractor shall be responsible for the proper fitting of all work and the coordination of the operations of all trades, subcontractors, material and equipment engaged upon the work. He shall do, or cause Subcontractors to do, all cutting, fitting, adjusting and patching necessary to make the several parts of the work come together properly and to fit the work to receive or be received by that of other contractors.
2. The Contractor shall give his personal supervision to the work, or have a competent superintendent on the site at all times during the progress of the work, with the authority to act for him. The Contractor shall also provide an adequate staff for the proper coordination and expediting of the work.
3. The General Contractor shall become fully familiar with all work required under the Contract and shall be in charge of the entire work; and shall be responsible for the prompt coordination of all trades, including his own forces and his various subcontractors, as well as the Owner's separate contractors, if they are on the job during the Contractor's operations.

4. Care shall be given to the proper scheduling, delivery, and installation of items to be built into rough construction which will affect the later portions of the work, such as anchors, pipe sleeves, inserts, conduit pipes, lugs, clips, brackets, braces, hangers, bolts, miscellaneous metal, and similar items. These items are not necessarily specified under the trade Section under which they are to be installed. The Contractor shall ascertain that all are properly installed in their correct locations at the proper time, to prevent cutting and patching of finished work.
5. Changes in design locations that may be necessary in the routing of pipes and ducts, or in the location of any mechanical, electrical or other equipment, shall be anticipated and made prior to installation. Additional compensation will not be allowed for costs incurred as a result of the Contractor's failure to anticipate the necessity for such changes.
6. The Contractor's responsibility for the coordination of all work under the Contract shall be complete, and shall extend to all modifications in the work, whether or not such modifications entail a change in the Contract Price. Where the Contractor Documents allow an optional material or method of performing a portion of the work, or where the Contractor is ultimately allowed or directed to perform a part of the work using a substitute material or method, the Contractor shall provide all other coordination and additional work that such change necessitates, without any additional costs to the Owner.

2.4 WORK LIMITS

1. The Contract Site shall be as shown on Drawings, and shall include the entire area bounded by the "Contract Limit" or "Limit of Work" lines as well as all areas outside of the limit of Work Lines when required for performance of work under this Contract.
2. Contractor shall take special note to protect any areas designated on the plans as “TO REMAIN”, “AVOID & PROTECT”, or similar phrases.

2.5 WORK SEQUENCE AND HOURS; SCHEDULING

1. Sequence of work is at the option of Contractor unless otherwise required in other sections and as noted below:
   (1) Disruption to existing utility services to buildings in the vicinity is to be minimized. Advance notification of scheduled outages to affected parties shall be given as far in advance as possible, but no less than 24 hours.
   (2) Coordination with applicable utility companies (electric, telephone, cable TV, fire alarm, gas company, water department, sewer department, public works department, etc.) for relocation, replacement or renewal of facilities is responsibility of Contractor.
   (3) Other contractors may be working in the vicinity of this project. Contractor shall coordinate his work with those contractors and shall work harmoniously with them.
   (4) Construction work shall be limited to the hours between 7:00 a.m. and 4:00 p.m. on weekdays. No construction work shall be allowed on Sundays or legal holidays, nor on any days of special community events.
2. Work Schedule

(1) Contractor shall order all materials sufficiently in advance of construction, after the Engineer's written acceptance of the submittals, and shall obtain a fixed date of delivery to the project site for all materials ordered which shall not impede or otherwise interfere with construction progress.

2.6 CONTRACTOR'S USE OF THE PREMISES

1. Contractor shall limit his use of the premises during the construction term, and shall organize and carry out the construction work to comply with the following where applicable:
   (1) Contractor shall allow access by pedestrians and deliveries to front doors of all nearby buildings during work hours.
   (2) Where work is carried out in a public way or sidewalk, Contractor shall provide temporary access over excavations or freshly poured concrete as soon as possible. In all cases, temporary access shall be provided before the end of the workday.
   (3) Contractor is fully and solely responsible for the safety and adequacy of all temporary accesses including but not limited to width, slope, load bearing capacity, slip resistance, handrails, safety fencing, barriers, etc., in accordance with all applicable laws, codes, and regulations, including but not limited to OSHA and State Building Codes.
2. At a minimum, one lane for traffic shall be maintained at all times, unless otherwise allowed by the Police Department for short duration work.
   (1) Any trenching work across the street shall be performed in segments to allow one lane of traffic to be directed to the side of the construction area.
   (2) Comply with Subsection regarding Traffic Controls.
   (3) Contractor shall require all his employees to use available parking off of the public way.
3. Do not unreasonably encumber the site with materials or equipment. Contractor shall limit use of site to work in process and storage of materials to be used in the immediate area within a short period of time.
4. Do not permit materials and fabricated work to be stacked on, or be transported over, any structure in such a manner as to stress any construction beyond the safe bearing capacity.
5. Contractor has full responsibility for protection and safekeeping of materials, equipment, and products stored on premises.
6. Contractor shall be responsible for adequate site drainage during the entire construction period and shall use such appropriate temporary means that do not adversely affect construction progress or abutting property.
7. Contractor shall take all necessary safety precautions and maintain adequate routes for access by emergency vehicles to all nearby or on-site buildings at all times.

2.7 PROTECTION OF PROPERTY

1. Contractor shall take all steps necessary to protect the existing adjacent buildings, utilities and other property, above or below ground. Damage to property caused by Contractor's operations under this Contract shall be repaired at Contractor's sole expense.

2. Any damage to any street, paving, curb and/or sidewalk or any existing utilities as the result of work under this Contract, whether within or outside the limits of the work, shall be repaired and/or replaced with new matching construction by the Contractor at his sole expense and in a manner satisfactory to the Engineer and authorities having jurisdiction.
3. Where existing curbs or walks are to remain, or after new curbs or walks are constructed and trucking is required over them, they shall be suitably protected in an approved manner.
4. Trenching and other work shall be expedited to fullest extent and carried out with minimum of inconvenience to normal operations of Owner and public traffic. Walks, paved or landscaped areas over which temporary construction roads cross shall, upon completion of the work, be restored to original or better conditions. Temporary roadways or haul roads shall be plated over trenched areas.
5. Provide continuous, lawful, safe, adequate and convenient access to work site. Access to site shall generally be via existing roadways and paved surfaces that Contractor shall maintain and restore to original or better condition. Contractor shall construct and maintain in good usable condition temporary roads and appurtenances as required, and when no longer required, remove temporary construction and restore such areas to original or better condition.
6. Contractor shall construct Temporary Stabilized Construction Entrance at the locations shown on the plans, at his staging area, and wherever else it may be needed to minimize dirt, mud, debris and other materials from being tracked onto adjacent pavement. Contractor is responsible for installing the crushed stone-tracking pad at the beginning of the work, and for maintaining the pad throughout construction until pavement is placed.
7. Contractor shall maintain adjacent pavement, walks and landscaped areas clean and free from dirt, mud and debris. Pavement shall be swept at least once a day, or more often as necessary.

2.8 PROTECTION OF EXISTING UTILITIES

1. Prior to excavation, the Contractor shall locate and identify all public and private underground and overhead utilities. Utilities may include but are not limited to:
   (1) Water mains and service lines
   (2) Sewer mains and service lines
   (3) Storm Drainage
   (4) Gas mains and service lines
   (5) Primary and secondary electric mains, services, and lighting conduits
   (6) Telephone
   (7) Cable Television
2. Contractor shall fully comply with "Dig Safe" programs and shall coordinate with other utility companies and local public works department for location of any and all facilities, and shall notify proper authorities before proceeding with any excavation. Contractor shall submit to Owner his Dig-Safe verification number prior to beginning excavation.

3. Immediately repair any active existing utility lines (cables, conduits, ducts, piping, etc.), damaged during the course of construction, except where such lines are to be abandoned. Protect and maintain such active existing utilities in use, until relocation of same has been completed or utilities have been properly discontinued or prepared for new service connections, as applicable. Perform such repair and protection work at no additional cost to the Owner.
4. If any existing active utility or other underground facility is not indicated on the Drawings or marked out by the respective utility companies and is accidentally damaged, and such facility is to remain, immediately report the incident to the Engineer, and repair the damage and restore the utility to its original integrity.
   (1) Any payment for repairs to utilities as outlined above shall be made only upon satisfactory documentation that the Contractor performed his work in a prudent and careful manner at the time such damage occurred.
   (2) Reimbursement of cost for performing such repair will be made by an adjustment in the Contract Price per the unit prices specified in contract, or as determined by the Engineer. If extra expense is incurred in protecting and maintaining any utility line or other underground facility not shown on the Drawings or located by the utility markings, an adjustment in the Contract Price may be made but only if advance notification is given by Contractor and approved in advance by Engineer.
5. If it becomes necessary to interrupt power, water line or other utilities to any building, notify Owner and all affected parties as far in advance as possible. Schedule such interruptions before or after business hours or at such other times as will minimize disruption and inconvenience to property owners and/or residents, as applicable

2.9 CONTRACTOR'S FIELD SURVEYING AND ENGINEERING

1. The Engineer will provide basic Survey Control as follows:
   (1) Control datum for survey is that shown on drawings, and consists of temporary benchmarks. Contractor shall locate and protect all control and reference points, and shall perform all other layout and control.
2. Any of the Engineer's control points disturbed by Contractor's operations will be reestablished by Engineer at Contractor's expense.
3. Quantities and calculations for rock excavation shall be measured by the cross section method by Engineer. Contractor is responsible for notifying Engineer when rock excavation is required.
4. Contractor's land surveyor shall also identify, and locate by survey, all existing boundary markers (bounds, iron pipes, drill holes, etc.) on or near the work area whether shown on the plans or encountered during the work. All boundary markers shall be protected during the construction work. Any marker which will be disturbed, or destroyed by construction work shall be replaced at the end of the work by the contractor's PLS who shall issue a certificate stating that all boundary markers have been either protected in place, or replaced with new markers at their original surveyed locations.
5. Prior to commencement of any excavation or filling work on the site, Contractor's PLS shall make sufficient check measurements to verify the

locations and grades of all proposed structures and other fixed items with regard to property lines and other existing conditions. The Contractor shall be fully responsible for promptly reporting in writing to the Engineer any discrepancies between the dimensions, elevations, slopes, grades, and/or locations indicated on the Contract Drawings and those as they actually exist on the site. Contractor will be held responsible for any error resulting from his failure to exercise such precautions and checks.

6. Field Engineer Qualifications: Contractor shall engage an experienced field engineer (not necessarily a PLS) with formal training and at least 5 years experience in construction stakeout including, but not limited to, line and grade of piping, earthwork, pavements, sediment and erosion controls, utilities, grading completion, Project Record Documents. Field Engineer may lay out supplemental controls, grades, slopes, and utilities from the control net established by Engineer. Field Engineer may also take Record Data, tie measurements and elevations.

2.10 REFERENCE STANDARDS

1. The "Standard Specifications" referred to in these documents are: "Standard Specifications for Highways and Bridges", Massachusetts Highway Department (formerly Massachusetts Department of Public Works), 2025 Edition as amended; which are incorporated herein by reference. A copy of the Standard Specifications shall be maintained on the job site at all times.
2. For products specified by association or trade standards, comply with requirements of the standard, except where more rigid requirements are specified or are required by applicable codes.
3. The date of the reference standard is that in effect as of the bid date, except when a specific date is specified.
4. Obtain copies of standards when required by Contract Documents. Maintain copy at job site during progress of the specific work.

2.11 CONSTRUCTION SITE SAFETY

1. Contractor is fully and solely responsible for all safety measures and shall comply with all Federal, State, and municipal regulations and requirements for safety and accident prevention, including, but not limited to OSHA Construction Standards (29 CFR Part 1926), those of the Associated General Contractors of America, the American National Standards Institute (ANSI Standard A10.2) and the Massachusetts State Building Code (780 CMR).
2. Special attention is directed to OSHA regulations dealing with Trench Excavation.
3. Neither the Owner nor the Engineer shall be responsible for providing a safe working place for the Contractor, Subcontractors, or their employees, or any individual responsible to them for the work.

2.12 NOISE CONTROL

1. Develop and enforce a noise-abatement program. Maintain strict discipline over all personnel to keep noise to a minimum. Submit program to Owner and Engineer for review. Revise as necessary to meet the intent.

2. Execute construction work by methods and by use of equipment which will reduce excess noise and which will provide minimum interference with normal activities, in the area including but not limited to:
   (1) Employ construction methods and equipment that will produce the minimum amount of noise.
   (2) Equip air compressors with silencers, and power equipment with mufflers.
   (3) Handle vehicular traffic and scheduling to minimize noise during early morning hours.
3. Do not allow radios and electronic entertainment equipment on site to be operated at excessive levels.

2.13 DUST CONTROL

1. Maintain the construction site, (including, but not limited to work areas, field office, material stockpiles, access, detour, and haul roads, staging and parking areas), free of dust which would cause a hazard or a nuisance to those at the site or adjacent sites.
2. Provide positive methods and apply dust control materials to minimize raising dust from construction operations, and provide positive means to prevent airborne dust from dispersing into the atmosphere.
3. These measures do not supersede any specific requirements for methods of construction or applicable General Conditions set forth elsewhere in the Contract with regard to performance obligations of the Contractor.

2.14 DEBRIS CONTROL AND REMOVAL OF RUBBISH

1. Contractor shall implement a specific program to prevent the accumulation of debris at the construction site, storage and parking areas, or along access roads and haul routes, including as a minimum:
   (1) Provide containers for deposit of debris and schedule periodic collection and disposal of debris.
   (2) Prohibit overloading of trucks to prevent spillage on access and haul routes.
2. Carry out cleanup operations concurrently with construction operations. Do not defer until the end of the job.
3. Daily clean up of the work site is required, including sweeping of adjacent road and sidewalks.
4. Immediately after unpacking, all packing materials, case lumber, excelsior, wrapping or other rubbish, flammable and otherwise, shall be collected and removed from the site and placed in a receptacle provided by the Contractor for that purpose.
5. Contractor shall ensure that each Subcontractor engaged upon the work bears his full responsibility for cleaning up during and immediately upon completion of his work, and removes all rubbish, waste, tools, equipment, and excess materials caused by or used in the execution of his work. This shall in no way be construed to relieve the Contractor of his primary responsibility for maintaining the building and site clean and free of debris, leaving all work in a clean and proper condition satisfactory to the Engineer and Owner.

6. Solid waste, including any demolition debris, shall be properly disposed of off-site at a state approved solid waste disposal facility. Stumps and other wood waste shall either be ground or otherwise processed so they are not classified as solid waste, or shall be disposed of off site as noted above.

2.15 POLLUTION CONTROL

1. Provide methods, means and facilities required to prevent contamination of soil, water or atmosphere by the discharge of noxious substances from construction operations.
2. In the event of a discharge of oil or other hazardous materials, Contractor shall immediately notify the applicable authorities, the Owner and Engineer shall provide equipment and personnel, trained and certified to carry out emergency measures necessary to contain any discharge or contamination. Removal, disposal and remediation of any discharge shall be the contractor's sole responsibility.
3. Take special measures to prevent harmful substances from entering public waters. Prevent disposal of wastes, effluent, chemicals, or other such substances adjacent to streams or into sanitary or storm sewers.
4. Provide systems for control of atmospheric pollutants. Prevent toxic concentrations of chemicals. Prevent harmful dispersal of pollutants into the atmosphere.

2.16 CONSTRUCTION SAFETY FENCE

1. A construction fence shall be provided where the Contractor deems necessary for construction site safety, and where required by governmental agency regulations.
2. Construction fence shall be as required by OSHA, erected and maintained throughout construction in a substantial manner, straight, plumb and true.
3. Fencing shall be removed at such time before final completion as the Engineer directs. Restore site to acceptable condition after removing fence.
4. Other construction barricades, gates, fences, warning signs and other safety measures shall be implemented by Contractor as required and appropriate for the conditions.

2.17 PROJECT IDENTIFICATION SIGN - Not Applicable

2.18 TRAFFIC CONTROLS

1. Any construction work in the public way shall require traffic controls for safety, which may include but are not limited to: traffic police, advance warning signs, barricades, trench plates, flashing lights, barrels, etc.

2.19 TEMPORARY WATER, ELECTRICITY, AND TELEPHONE

1. Contractor is responsible for arranging, installing, paying all service and usage charge, and removing all temporary utilities, connections and services for water supply (potable, washing or non-potable), electricity and telephone.

2.20 TEMPORARY SANITARY FACILITIES

1. Contractor shall provide an adequate number of toilet facilities with chemical type toilets, hand washing facilities and temporary lighting rented from and serviced by an approved company, as necessary for all persons engaged on the work.
2. Toilets shall be erected at contractor's staging area, and shall be maintained by the Contractor in a clean and orderly condition in compliance with all local and State health requirements, and shall be removed upon substantial completion of the work.

2.21 CONTRACTORS FIELD OFFICE AND MATERIAL STORAGE AREA

1. Contractor is responsible for making arrangements for use of areas for temporary field office trailer, staging, storage and other temporary facilities.
2. Contractor is solely responsible for all costs of furnishing temporary facilities, and all electric, telephone and other associated costs; for security of storage areas; and for restoring area to original or better condition upon completion of construction.
3. Contractor shall install staked straw bales or fabric silt fence around stockpile areas to prevent silt and sediments from leaving the area. This is a performance requirement, and contractor shall implement whatever additional measures may be necessary to prevent siltation or pollution.

2.22 PERMITS:

1. Entry on a Public Way, or Connection to Municipal utility.
   (1) The Contractor shall make application for and obtain all required entry permits for work within public ways.
   (2) The Contractor shall furnish a bond or surety to the municipal Public Works Department and shall provide all engineering data required by the municipality, and/or public utility relative to methods of construction, schedules, details of connections to existing utilities, traffic controls, barriers and warning lights, protection of adjacent structures, pavements, utilities and trees. Fees for bonds and permits are to be included in the contract sum.
2. Wetlands Protection Act: **NOT APPLICABLE**
   (1) The Contractor shall provide trained and experienced supervisory personnel to ensure compliance with all permit requirements imposed by the municipal Conservation Commission. Copies of permits are appended to this Section. This shall include the DEP sign, notifications and reporting to the Conservation Commission.

2.23 TIME FOR COMPLETION

All work shall be completed within the following schedule:

Begin Work:	August 18, 2025
Substantial Completion:	October 31, 2025
Final Completion:	November 14, 2025

2.24 SPECIAL CONDITIONS

1. In addition to the General Conditions and the requirements contained in the various sections of these specifications, contractor shall comply with the following Special Conditions:
   (1) At contractor's staging area, do not work within 100 feet from any wetland area unless granted permission by the municipal Conservation Commission.
2. Any artifacts or items of historic interest shall remain the property of the property owner or municipality. Such items include, but are not limited to, marble steps, hitching posts, old bottles, coins, glass, utensils, etc. Contractor shall take measures to avoid damage to artifacts, and shall notify the municipal Historic Commission if artifacts are uncovered or identified. Whenever possible, artifacts shall be left in place until they can be inspected and documented by Historic Commission. Contractor is directed to work cooperatively with the Historic Commission if asked to remove such artifacts.
3. Excess earth and rock materials shall be properly disposed of in off-site areas in accordance with all applicable codes and regulations. There shall be no on-site disposal of materials. The cost to haul and dispose of materials shall be included as incidental work.
4. See Specific Conditions for more information.

END OF SECTION 02000

SECTION 02050 – CONTROL OF EROSION & SEDIMENTATION

PART 1 – GENERAL

1.1 DESCRIPTION

1. Section Includes: construction and maintenance throughout the construction phase of all measures needed to:
   (1) Minimize erosion and sedimentation.
   (2) Retain sediments on the site.
   (3) Prevent direct or indirect alteration of wetlands.
2. Related Sections:

(1) Earthwork	02200
(2) Clearing and Grubbing	02110
(3) Loam, Seed, Straw Mulch and Cleanup	02900

3. Related Work Performed by Others:
   (1) Not Applicable.

1.2 SUBMITTALS

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.
2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this Section:
   (1) Silt Fence.
3. Shop Drawings:
   (1) Not Applicable.
4. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:
   (1) Not Applicable.
5. Stormwater Pollution Prevention Plan and NPDES Notice of Intent for Construction Sites:
   (1) Not Applicable.

1.3 QUALITY ASSURANCE

1. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

1.4 CODES AND STANDARDS

1. Wetlands Protection Act Permit – Not Applicable
2. NPDES Stormwater Notice of Intent and General Permit – Not Applicable

PART 2 – PRODUCTS

2.1 The materials furnished under this Section shall conform to the following specifications:

1. Wherever in this Section the term "MHD Standard Specifications" is used, it shall be read to mean the relevant provisions of the Mass. Highway Department 2025 Standard Specifications for Highways and Bridges, as amended through the Supplemental Specifications to date.
2. Type 1 Sediment Control Barrier shall consist of staked straw bales as shown on plans.
3. Type 2 Silt Fence shall be equivalent to American Engineering Fabrics, Inc. Pre-Assembled Silt Fence, Type II or equivalent, as shown on plans.
4. Type 3 Sediment Control Barrier is a combination of Types 1 and 2 SCB as shown on plans.
5. Straw mulch shall consist of mowed and properly cured grass, clover or other acceptable plants.
6. Seed mixture for erosion control shall contain a high percentage of annual rye grass and shall conform to the Massachusetts Highway Department Specification M6.03.1.

PART 3 – EXECUTION

3.1 Refer to MHD Standard Specifications where applicable.

3.2 As a minimum all work shall be carried out in strict conformance to all conditions and procedures contained within NPDES Storm Water General Permit which are incorporated by reference. Wherever there are conflicts between methods or specifications contained herein and those in the permits, the permit conditions shall rule.

3.3 Stormwater Pollution Prevention Plan (SWPPP) on sites with over 1 acres of disturbance: Not Applicable

3.4 The locations of Sediment Control Barriers and Temporary Sediment Traps shall be marked out in advance of Construction by the Contractor's Field Engineer who shall then request approval of limits by the Engineer.

3.5 Prior to beginning any site-work, Contractor shall install all Sediment Control Barriers in accordance with the attached plans and details and shall obtain approval of Engineer and, where applicable, of Conservation Commission.

3.6 Temporary stabilization of disturbed areas shall be established over all disturbed areas in which further construction will not occur within 21 days. This will include earth stockpiles that will not be reused within the period. Temporary stabilization shall consist of rough grading, application of erosion control seed, and mulching with straw mulch.

3.7 Where disturbed areas will not be worked on for more than two months, temporary vegetation shall be established. Erosion control seed shall be applied in two directions at right angles to each other at the total rate of 3 lbs. per 100

square yards. Application of 12 inches of wood chip mulch may be substituted for temporary vegetation.

3.8 Water courses, including intermittent drainage swales, shall be protected from siltation by silt fences, check dams, etc. as shown on the plans and as directed.

3.9 Sediment traps shall at a minimum, be installed at locations shown on the plans and additional or relocated sediment traps shall be installed as work progresses wherever required to control runoff and remove at least 80% of Total Suspended Solids from the runoff.

3.10 The Contractor shall provide a stockpile of a minimum of 100 spare straw bales on-site at all times for use as they are needed.

3.11 Install and maintain stabilized construction entrance ("tracking pad") between the edge of pavement of the existing access driveway and the gravel access road for site access. Install per plans. The Contractor shall promptly remove any tracked, spilled or flowing sediment from public ways and on-site roadways.

3.12 Perform inspection of all sediment and erosion controls at least once every seven days and within 24 hours after each rainfall of more than one-half (0.5) inch. Perform any needed maintenance and repairs, and add measures as needed to control erosion and sediments. Sediments shall be removed from sediment traps and behind silt fences before they reach 50% of capacity. Sediments shall be disposed of in upland area, stabilized to prevent further erosion or sedimentation. Contractor shall maintain daily written records of all inspections, maintenance and repairs, and shall submit copies of the written reports to the Engineer at the end of each month of work.

3.13 Conduct operations to ensure minimum interference with roads, streets, and other adjacent occupied or used properties. Allow no equipment to enter designated wetland areas beyond limits shown on plans.

3.14 Clean up mud tracked onto pavement areas of public streets as required to prevent nuisance conditions. This shall be done at least once a day.

3.15 Contractor is responsible for control of dust from construction operations, by whatever means and methods are necessary and suitable to minimize dust, including but not limited to calcium chloride, or water. Oil or any material that may be potentially hazardous shall not be used. (See Section 440 of the Standard Specifications) The work under this item shall conform to the relevant provision of Section 440 of the Standard Specifications and the following:

1. The contractor shall sufficiently sweep the roadway surface to expose any hidden structures required to be adjusted.
2. The Town will not be liable for any damage to equipment resulting from unknown structures, buried structures, or structures not marked or sufficiently adjusted.

3. The Town will not be liable for any damage caused by improper control of dust.
4. The Contractor shall maintain traffic flow on all streets to be improved. The Contractor shall coordinate traffic control requirements with the Lenox Police Department as incidental work.
5. The Contractor shall keep street dust to a minimum by the use of calcium chloride and or water as practically necessary as directed by the Engineer.

3.16 TESTING AND INSPECTION

1. Immediately before completing of the work, when Contractor feels that final stabilization of the site and establishment of permanent vegetation has been achieved, Contractor shall clean all accumulated sediments from sediment traps, including sediments in the detention basins and catch basins, and prepare the site for inspection by the Engineer and the Conservation Commission.
2. Contractor shall maintain all sediment and erosion control barriers until the Engineer and Conservation Commission have approved the stabilization and authorized the removal.
3. Contractor shall then carefully remove all non-permanent sediment and erosion controls and repair any disturbance to the site.

PART 4 - BASIS OF PAYMENT

4.1 Item 16, Erosion, Sedimentation and Dust Control, shall be paid for at the unit price per **lump sum**. Dust control shall include placement, hauling, all labor, tools, equipment, materials and all incidental work thereto to ensure dust control throughout construction by all necessary means. In order to equitably apportion payment between initial installation, maintenance during construction, and final stabilization and removal, Contractor shall itemize the portion of the stipulated price to be attributed to this item.

1. This item shall be paid for according to the following schedule:
   (1) 25% Initial Installation of Measures;
   (2) 50% Maintenance of measures throughout construction phase, to be paid for pro-rata as site-work proceeds; and
   (3) 25% Final completion of project stabilization and removal of measures after stabilization is completed to satisfaction of Engineer and Conservation Commission (if applicable).

END OF SECTION 02050

SECTION 02200 – EARTHWORK

PART 1 – GENERAL

1.1 DESCRIPTION

1. Section Includes: requirements for earthwork related to construction of sitework other than the buildings, including but not limited to:
   (1) Strip, screen and stockpile topsoil for reuse on-site as loam borrow.
   (2) Perform all earthwork for site utilities, and landscaping areas as indicated on drawings.
   (3) All cuts and fills, embankments, controlled fills, slopes, excavation, compaction, granular aggregate materials, trenching, bedding and backfills site utilities, rough grading, roadway grading, subgrade, and geotextile roadway stabilization fabric.
   (4) Rock excavation.
   (5) Discharge aprons, vegetated swales, reinforced vegetated waterway and embankment repair, sub-drain, and other drainage appurtenances.
2. Related Sections:
   (1) Sediment and Erosion Controls 02050
   (2) Paving 02511
   (3) Loam, Seed, Straw Mulch and Cleanup 02900
3. Related Wok Performed by Others:
   (1) Not Applicable.

1.2 SUBMITTALS

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.
2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this Section:
   (1) Geotextile Filter Fabric
3. Shop Drawings:
   (1) Not Applicable
4. Tests and Samples:
   (1) Ordinary Gravel, Gravel Borrow Type C, Processed Gravel, Crushed Stone
5. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:
   (1) Location of materials used shown on plans and profiles.

1.3 QUALITY ASSURANCE

1. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

1.4 CODES AND STANDARDS

1. Perform earthwork complying with requirements of authorities with jurisdiction.

PART 2 – PRODUCTS

2.1 The materials furnished under this Section shall conform to the following specifications. Wherever in this Section the term "MHD Standard Specifications" is used, it shall be read to mean the relevant provisions of the Mass. Highway Department 2025 Standard Specifications for Highways and Bridges, as amended through the Supplemental Specifications.

2.2 Soil Materials: Provide approved borrow soil materials from off-site. Existing site soils that comply, or are made to comply with the specifications may be reused.

2.3 Gravel Borrow: Shall consist of hard, durable sand and gravel, and shall be free from ice, snow, roots, sod, rubbish and other deleterious or organic matter. Gravel Borrow shall conform to MHD Standard Specifications, M1.03.0 Type C 2-inch maximum stone size.

2.4 Processed Gravel Borrow: Shall conform to the MHD Standard Specifications, M1.03.1.

2.5 Unsatisfactory Soil Materials: ASTM D 2487 classification groups GC, SC, ML, MH, CL, CH, OL, OH, and PT and topsoil, subsoil and man-made fill containing brick, concrete, trash, debris, clay or other deleterious material.

2.6 Backfill and Fill Materials: Granular off-site soils as specified. Note: Processed materials from on-site excavation may be reused provided they are made to comply with the specifications.

2.7 Granular Fill Types I and II shall be free from ice, snow, roots, sod, rubbish, and other deleterious or organic matter. It shall conform to the following gradation requirements.

Sieve Size	Percent Finer by Weight
*	100
No. 10	30 – 95
No. 40	10 – 70
No. 200	0 – 15

*Note: Granular Fill Type I shall have maximum size equal to two-thirds (2/3) of the loose lift thickness when not being used as pipe bedding or two (2) inches when used as pipe bedding. Granular Fill Type II shall have minimum size of one-half (1/2) inches when used as pipe bedding.

2.8 Loam Borrow shall conform to MHD Standard Specifications, M1.05.0. This may include screened topsoil obtained from the site.

2.9 Crushed Stone shall consist of durable crushed stone, free from ice, snow, and clay, loam, or other deleterious material. The Crushed Stone shall be uniformly blended and shall conform to the following requirements:

Sieve Size	Percent Finer by Weight
1 inch	100
¾ inch	90 – 100
½ inch	10 – 50
3/8 inch	0 – 20
No. 4	0 – 5

2.10 Dumped Riprap: Meet requirements of Subsection M2.02.4 of the MHD Standard Specifications for modified rockfill. Riprap shall be well graded.

2.11 Geotextile: For Roadway Stabilization – To be Mirafi 170N Non Woven Filter Fabric or approved equal. For Bank Stabilization – To be North American Green P550 or equal.

PART 3 – EXECUTION

3.1 GENERAL

1. Refer to MHD Standard Specifications where applicable.

3.2 DEFINITIONS OF TERMS used in this Section include the following:

1. Unclassified Excavation includes excavation of pavements and other obstructions visible on ground surface; underground structures, utilities and other items indicated to be demolished and removed; together with earth and all other materials encountered that are not classified as rock or unauthorized excavation. Unclassified excavation shall also include the removal and disposal of items under clearing and grubbing.
2. Rock excavation in trenches and pits includes removal and disposal of materials and obstructions encountered which cannot be excavated with a 1.0 cubic yard (heaped) in capacity, 42" wide bucket on track-mounted power excavator equivalent to Caterpillar Model 215, rated at not less than 90 HP flywheel power and 30,000 lb. drawbar pull. Trenches in excess of 10'-0" in width and pits in excess of 30'-0" in either length or width are classified as open excavation.
3. Rock excavation in open excavation includes removal and disposal of material and obstructions encountered that cannot be dislodged and excavated with modern track mounted heavy-duty excavation equipment without drilling, blasting or ripping. Rock excavation equipment is defined as Caterpillar Model No. 973 or No. 977K, or equivalent track mounted loader, rated at not less than 170 HP flywheel power and developing 40,000 lb. break out force (measured in accordance with SAE J732C).

4. Typical of materials classified as rock are boulders two (2) cubic yards or more in volume, solid rock, rock in ledges, and rockhard cementitious aggregate deposits.
5. Intermittent drilling, blasting, or ripping performed to increase production and not necessary to permit excavation of material encountered will be classified as unclassified excavation.
6. Do not perform rock excavation work until a pre-blast survey in accordance with Massachusetts State Regulations has been performed and material to be excavated has been cross-sectioned and classified by Architect/Engineer. Such excavation will be paid for on basis of contract conditions relative to changes in work.
7. Unit Price rock Measurement: Volume of rock or solid concrete masonry actually removed, measured in original position, but not to exceed the following:
   (1) 8 inches below finish grades of areas to be vegetated (other than bottoms of storm water detention or water quality basins).
   (2) 12 inches outside of concrete forms at footings.
   (3) 6 inches outside of minimum required dimensions of concrete cast against grade.
   (4) 6 inches beneath bottom of concrete bases or slabs on grade.
   (5) 6 inches beneath invert elevation of pipe in trenches, and 24 inches wider than pipe diameter.
   (6) Unit prices for rock excavation include replacement with approved materials.
   (7) 24 inches beyond and beneath balled roots of tree plantings.
   (8) 12 inches below subgrade of organic soil for bottoms of water quality basins.
8. Subgrade: The lowermost surface of an excavation below fill or the surface of a fill or backfill immediately below subbase, drainage fill, or topsoil materials.
9. Borrow: Soil material obtained off-site when sufficient approved soil material is not available from excavations.
10. Subbase Course: The layer placed between the subgrade and surface pavement or walk.
11. Drainage Fill: Washed granular material as specified.
12. Unauthorized excavation consists of removing materials beyond indicated subgrade elevations or dimensions without direction by the Architect and Owner's Geotechnical Engineer. Unauthorized excavation, as well as remedial work directed by the Architect and Owner's Geotechnical Engineer, shall be at the Contractor's expense.
13. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below ground surface.
14. Utilities include underground pipes, conduits, ducts, cables, and underground services including related structures.

3.3 Preparation: Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.

3.4 Install and maintain erosion and sedimentation control measures throughout duration of project.

3.5 Prevent surface water and subsurface or ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area. De-water with pumping from sumps as required to maintain all excavations in the dry with water level at least twelve (12) inches below final excavation bottom.

3.6 Protect subgrades and foundation soils from softening and damage by rain or water accumulation and from freezing temperatures or frost. Frozen or overly wet materials shall not be used as backfill and shall be replaced with Gravel Borrow.

3.7 Explosives: Use of explosives shall be by licensed personnel in accordance with applicable safety code regulations and comply with conditions of permits for this project. There shall be no blasting within 200 feet of any portion of a building foundation.

3.8 Excavation includes excavation of earth, pavements and other obstructions visible on surface; underground structures, utilities, and other items indicated to be demolished and removed, and other material encountered that are not classified as rock. Rock excavation includes removal and disposal of rock materials, solid concrete masonry, and boulders two (2) cubic yards or more in volume, that cannot be removed without systematic drilling or ripping.

3.9 Excavate for structures, pavements, and walks to indicated elevations and dimensions. Widen excavations and stabilize side slopes as required to permit placing and removing concrete formwork, installing foundation drains, services and other construction, and for inspections. Trim subgrades to required lines and grades to leave solid base to receive other work. All topsoil, subsoil and unsuitable (such as brick fill, debris) within the building, parking and roadway limits shall be excavated to suitable bearing soils. Excavation shall extend laterally outside the building to limits determined by a 1-horizontal to 1-vertical line projected downward from the edges of the perimeter footings to the top of the bearing soil.

3.10 Excavate utility trenches to indicated slopes, lines, depths, and invert elevations of uniform widths to provide a maximum of 12-inches of working clearance on each side of pipe or conduit. NOTE: The Contractor shall be responsible for design and implementation of trench support works required by all applicable safety codes.

1. Excavate and shape trench subgrade to provide uniform bearing and continuous support for pipe and conduit. Where encountering rock or other

unyielding bearing surface, carry trench excavation below invert elevation to receive bedding course in accordance with bedding details.

3.11 Foundations or specified base course for pavements shall be placed as soon as possible following excavation of final subgrade and subgrade approval by the Owner's Geotechnical Engineer. Final excavation to subgrade shall be performed using a smooth-edged bucket.

3.12 Where groundwater is more than four (4) feet below exposed subgrade for pavement and building foundations, the subgrade shall be proof-compacted with four (4) passes of a 1,200 to 1,500 pound vibratory drum roller.

3.13 Where groundwater is four (4) feet or less below exposed subgrade for building foundations, the subgrade shall be over excavated twelve (12) inches and ¾ inch crushed stone surrounded with non-woven filter fabric shall be placed to subgrade elevation. Compaction of the subgrade shall not be performed.

3.14 Where groundwater is four (4) feet or less below pavement subgrade, proof compacting with a 1,200 to 1,500 pound vibratory drum roller may be performed based on observations and approval by the Owner's Geotechnical Engineer.

3.15 Upon final approval of all subgrades, no traffic shall be allowed on the exposed subgrades.

3.16 Approval of Subgrade: When the Owner's Geotechnical Engineer determines that unforeseen unsatisfactory soil is present, continue excavation and replace with Granular Fill, Type I, as directed. Payment will be made according to Contract provisions for changes in the work.

1. Remove and replace subgrade soils or previously placed fill damaged by freezing temperatures, frost, rain, accumulated water, or construction activities at no additional cost to the Owner. Limits of removal shall be determined by Owner's Geotechnical Engineer. Replacement soil shall be Granular Fill, Type I.

3.17 Fill unauthorized excavation under foundations or wall footings with compacted Granular Fill, Type I, by extending indicated bottom elevation of concrete foundation or footing to excavation bottom, without altering required top elevation. Fill unauthorized excavations under other construction as directed by Owner's Geotechnical Engineer.

3.18 Store excavated and borrow soil materials acceptable for backfill and fill in shaped, graded, drained, and covered stockpiles. Locate stockpiles away from edge of excavations and outside drip line of remaining trees.

3.19 Backfill excavations promptly following acceptance of affected work below final grade.

3.20 Utility Trench Backfill: Place, compact, and shape Granular fill, Type I or II as required on the drawings, to provide continuous support for pipes and conduits over rock and other unyielding bearing surfaces and to fill unauthorized excavations. NOTE: Place and compact initial backfill of Granular Fill, Type I or II, free of particles larger than 1 inch, to a height of 12 inches over the utility pipe or conduit. Place and compact final backfill of Granular Fill, Type I or II to final subgrade.

1. Coordinate backfilling with utilities testing.
2. Install warning tape directly above utilities, 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

3.21 Fill Preparation: Bench existing sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing surface.

3.22 Uniformly moisten or aerate backfill layer to within 2 percent of optimum moisture content before compaction.

1. Remove and replace, or scarify and air dry, backfill that is too wet to compact so specified density.

3.23 Compaction: Place backfill and fill materials in layers not more than 12 inches in loose depth for material compacted by heavy compaction equipment, and not more than 6 inches in loose depth for material compacted by hand-operated tampers. Place evenly alongside structures and utilities to required elevations.

3.24 Compact soil to not less than the following percentages of maximum dry density according to ASTM D 1557:

1. Embankments-Compact full height and width to 95 percent.
2. Under structures, building slabs, steps, and pavements, compact the top 12 inches below subgrade and each layer of backfill or fill material to 95 percent.
3. Under lawn or unpaved areas, compact the top 6 inches below subgrade and each layer of backfill or fill material to 85 percent.
4. Under walkways, compact the top 6 inches below subgrade and each layer of backfill or fill material to 95 percent.
5. Impervious Sol Embankments-Compact full depth to 95%.
6. Organic soil for wetland plantings-compact to 85 percent.

3.25 Grading: Uniformly grade areas to a smooth surface, free from irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated. Grade lawns, walks, and unpaved subgrades to tolerances of plus or minus 0.10 foot and pavements and areas within building lines to plus or minus ½ inch.

3.26 Subbase: Under pavements and walks, place subbase course material on prepared subgrades and compact at optimum moisture content to required grades, lines, cross sections, and thickness.

1. Place shoulders along edges of subbase to prevent lateral movement. Construct shoulders at least 12 inches wide of acceptable soil materials and compact simultaneously with each subbase layer.

3.27 Protection: Repair and reestablish grades where completed or partially completed surfaces become eroded, rutted, settled, or lose compaction.

3.28 Disposal: Remove waste material, which are unsatisfactory for reuse, including unsatisfactory fill materials, trash, and debris and legally dispose of it off the Owner's property.

3.29 Off-site Stockpile: There are no designated off-site stockpiles.

3.30 Control sediments to prevent entry into drainage system.

3.31 Any areas of old fill that is determined by the Owner's Geotechnical Engineer to be unsuitable shall be removed and replaced with granular fill, and re-compacted.

3.32 Construct subdrain if required to intercept groundwater springs, as directed by the site civil Engineer and as shown on the plans.

3.33 Geotextile for roadway stabilization as shown on the plans and as directed by the Field Engineer.

3.34 Geotextile for bank stabilization as shown on the plans and per manufacturer recommendations.

3.35 Testing and Inspection:

1. Testing and Inspection Service: Owner will engage a qualified independent testing agency to perform laboratory testing of proposed on-site and borrow soils to verify that soils comply with specified requirements.
2. Material Tests shall be performed and results submitted to the Owner's Geotechnical Engineer for review and approval a minimum of five (5) working days prior to use.
3. Laboratory gradation tests shall be performed as per Item 17 at the frequency of at least one (1) test per proposed soil type per source and as necessary judged by the Owner's Geotechnical Engineer based on visual variations during construction from the soil originally submitted and approved.
4. Field Quality Control: Allow Owner's Engineer access to inspect and test each subgrade and each fill or backfill layer. Do not proceed until test results for previously completed work verify compliance with requirements.
   (1) Perform field in-place density tests according to ASTM D 1556 (sand cone method), ASTM D 2167 (rubber balloon method), ASTM D 2922 *nuclear method) or ASTM D 2937 (drive cylinder method), as applicable.

(2) Paved Areas: At subgrade and at each compacted fill and backfill layer, perform at least one field in-place density test for every 2,000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests.
(3) Foundation Wall Backfill: At each compacted backfill layer, perform at least one field in-place density test for each 100 feet or less of wall length, but in no case fewer than two tests.
(4) Trench Backfill: In each compacted initial and final backfill layer, perform at least one field in-place density test for each 150 feet or less of trench, but in no case fewer than two tests.

3.36 When testing results indicate that subgrades, fills, or backfills are below specified density, scarify and moisten or aerate, or remove and replace soil to the depth required, re-compact or retest until obtaining required density.

PART 4-MEASUREMENT AND PAYMENT

4.1 Unit Price Items: The following items will be measured in place according to the limits specified herein and paid for at the contract unit price.

Note: All unit price items shall include labor, tools, equipment, materials, compacting, dewatering, excavations, backfills, shoring, grading, compacting, and any other necessary work to complete the item as specified and as shown on plans. The following are additional requirements for each item.

Item 1, Unclassified Excavation, will be measured and paid for at the contract unit price, per **cubic yard**, which price will include all earth moving operations, unclassified excavations, pavement excavations, grading to subgrade and finish grades, cuts, fills, embankments, stripping of topsoil and removing excess topsoil from the site stockpiles, underground structures, utilities and other items indicated to be demolished and removed, earth and all other materials encountered that are not classified as rock excavation and any other earthwork operations not accounted for in other items and required to complete the work. Item additionally includes trucking and disposal of all items as required and as noted herein, as applicable, all gravel and backfilling operations, removing and stacking, resetting and/or relocating items and all permits and work required to obtain permits.

Unclassified Excavation will be measured and paid for by the contract unit price, per cubic yard, which price shall include all labor, materials, equipment, excavation, disposal of excess and unsuitable excavated materials, fine and rough grading, site preparation, mobilization, demobilization, fence resetting (if required), and all incidental work thereto.

The work shall include excavation of existing earth materials, base material, existing concrete, and any bituminous concrete to the proposed subbase, fine grading and compacting of the proposed gravel subgrade. Contractor is responsible for all earthworks necessary to provide a firm and suitable subbase for the work.

As a minimum, Contractor shall remove any unsuitable overly wet subbase soils and replace them with clean, compacted gravel, strip and stockpile topsoil, rough grade and compact subbase, and landscaping as shown on the plans.

The work shall include the offsite disposal of all excess excavated materials, approved by the Engineer, shown on the drawings to be removed. No separate payment will be made for the offsite disposal of excess materials.

The work under this item shall conform to the relevant provisions of Section 120 and Section 170 of the Standard Specifications.

Item 2, Class B Rock Excavation, will be measured and paid for at the contract unit price, per **cubic yard**, which prices shall include all labor, materials, tools, equipment, removal and disposal of excavated materials and all incidental work thereto. Work shall include excavation to lines and grades as indicated on the plans, these specifications and as directed by the Engineer.

Item 3, Gravel Borrow for Backfilling Structures & Pipes, will be measured and paid for by the **cubic yard** compacted in place where required as borrow backfill for pipes and structures. No replacement borrow shall be placed without first obtaining permission from the Engineer and onsite excavated material shall be used when appropriate at no additional charge.

Item 4, Crushed Stone, will be measured and paid for by the **cubic yard** compacted in place where required as bedding for piping and structures.

The contractor shall provide the Town or Town Representative with signed and dated weight slips. For purposes of conversion the unit weight of the dense graded crushed stone will be 105 lbs/cubic foot. The dense graded crushed stone to be used shall meet Material Specification M2.01.7.

There will be no additions or deductions for compaction and swelling.

For purposes of weight conversion, the unit weight of gravel borrow, compacted in place, will be 128 lbs/cubic foot or 1.728 tons/cubic yard. The Contractor shall provide the Field Engineer with signed and dated weight slips.

END OF SECTION 02200

SECTION 02511 – BITUMINOUS CONCRETE PAVING

PART 1 – GENERAL

1.1 DESCRIPTION

1. Section includes: paving and miscellaneous related items including but not limited to the following:
   (1) Construct bituminous concrete pavements for roadways – various types.
   (2) Construct bituminous concrete pavements for playing court, aprons, and paved waterways and match existing pavements with key trench.
   (3) Saw cut existing pavement. Protect existing pavement, walkways, and playing courts to remain.
   (4) Repair existing pavement.
   (5) Acrylic Color Coating System
2. Related Sections:
   (1) Sediment and Erosion Controls 02050
   (2) Earthwork 02200
3. Related Work Performed by Others:
   (1) Not Applicable.

1.2 SUBMITTALS

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.
2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this section.
   (1) Certified Job Mixes for Bituminous Concrete Binder and Top Course respectively. NOTE: No Recycled Asphalt Products (RAP) shall be allowed in the Job Mixes. ½" Maximum aggregate size.
   (2) Tack Coat.
   (3) Acrylic paint chip color samples.
3. Show Drawings:
   (1) Not Applicable.
4. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:
   (1) As-built surveyed locations and/or tie measurements of all underground utilities shall be submitted to Owner prior to paving.
   (2) Not Applicable.

1.3 QUALITY ASSURANCE

1. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
2. Provide job mix from the same source throughout construction.
3. Weather Conditions: Paving shall be scheduled and carried out only when weather conditions are suitable, the gravel base course is dry and firm, and the

air temperature is above 50°F and rising. Paving shall not be carried out on frozen or wet ground.

4. Codes and Standards:
   (1) Americans with Disabilities Act: Construct finished surfaces to the grades and tolerances shown on the plans and as necessary to comply with applicable portions of Uniform Federal Accessibility Standards pertaining to grading, paving, sidewalks, handicap parking stalls and curb cut ramps.
   (2) Any lips formed along juncture between pavement and curb ramps shall be no higher than ¼".
   (3) Grade any paved areas which are designated as Handicap Parking Spaces to slope at no more than 2%.
5. Testing Pavement Compaction: Owner may elect to have its testing service perform compaction testing on pavement during paving operations.
6. Performance Requirements: Construct pavement to withstand heavy-duty traffic loads.

PART 2 – PRODUCTS

2.1 The materials furnished under this Section shall conform to the following specifications. Wherever in this Section the term "MHD Standard Specification" is used, it shall be read to mean the relevant provisions of the Mass. Highway Department 2025 Standard Specifications for Highways and Bridges, as amended through the Supplemental Specifications to date.

1. Class 1 Bituminous Concrete, Type l-1,
   Binder Course and Top Course M3.11.00
   NOTE: No Recycled Asphalt Products (RAP) shall be allowed in the Job Mixes. ½" Maximum aggregate size.
2. Bituminous Tack Coat
   (Emulsified asphalt, ASTM D 977 or ASTM D 2397) M3.00
3. Gravel Borrow M1.03.00 Type C
4. Processed Gravel Borrow M1.03.01
5. Mineral Filler: ASTM D 242.
6. Acrylic Coatings and Painting – SportMaster® Sport Surfaces or equal Crack and Leveling Binder Patch, Acrylic Resurfacer, and Acrylic Filler, Acrylic Color Coat, Acrylic Resilient Cushion Course, and Acrylic Textured White Line Paint.

PART 3 – EXECUTION

3.1 General: Refer to MHD Standard Specifications where applicable.

3.2 Preparation:

1. Subgrade and gravel base shall be completed.
2. Insure all utility mains and structures occurring within the area to be paved, have been installed, tested and inspected.
3. Provide Owner and Engineer with As-Built Plans showing locations of any underground conduits or other structures crossing the surface to be paved.

4. Insure that fine grading of gravel base, testing and inspection has been completed to required tolerances. Maintain positive drainage of base course and furnished surface.
5. Any areas of the gravel sub-base which are not within the required tolerances shall be scarified, regraded and recompacted to the required lines and grades prior to paving.
6. Adjust all castings, frames, grates, valve boxes, manhole covers, and other structures to finished grade prior to finished paving. Install concrete collar around castings.
7. Insure that all utility and underground structures have been located, tie measurements taken, and record documents updated prior to paving.
8. Where paving is adjacent to curbing, sidewalks, wheelchair ramps and curb cuts, and other structures, insure that work lines, grades, and sequences have been properly coordinated to the required tolerances.

3.3 INSTALLATION OF BITUMINOUS CONCRETE PAVING

1. Conform to all relevant portions of Sections 420 and 460 of the MHD Standard Specifications.
2. Immediately prior to paving, mop the surface of any adjacent curbing or walls with tack coat.

3.4 BITUMINOUS CONCRETE BINDER COURSE

1. Spread binder course onto prepared subgrade with proper and uniform thickness and compact to required thickness. Spreading shall be by means of a mechanical, self-propelled paver capable of spreading and finishing the mixture true to line, grade, width and crown by means of automatic or manual controls for both longitudinal and transverse slope. Mixture shall be spread without tearing or pulling the surface, or excessively segregating the aggregate. The screeded finished shall be smooth, true to cross section and grade, uniform in density and texture, shall provide positive drainage and shall be free from hollows, transverse imperfections honey combing, open joints, and other irregularities.
2. Manual spreading may only be done in particular locations where irregularity, inaccessibility or other unavoidable obstacles do not allow mechanical spreading and finishing.
3. After the paving mixture has been properly spread and screeded, and before roller compaction is begun, the surface shall be checked and any irregularities adjusted and imperfections corrected.
4. Roller compaction shall be by means of a self-propelled 10-ton steel wheel roller, or approved equivalent. Special care shall be taken to properly roll and seal the joint between successive passes.
5. The density of the completed pavement shall not be less than 95% of the maximum density obtained from laboratory compaction of the job-mix. Testing shall be performed by the Owner's testing service by nuclear density meter. Any area of unsuitable paving shall be removed and the section repaved at the Contractor's expense.

6. After initial rolling, the surface shall be checked again with a 10-foot straight edge to verify that the required tolerances have been met. Any humps or depressions or thickness deficiencies exceeding tolerances shall be corrected by removing the defective work and replacing with new material, and reworking or re-compacting as required.
7. Cold joints shall not be allowed. Bond breakers shall be installed at the end of each day's paving to provide a proper working surface for the next day's paving.
8. Where new pavement will abut existing pavement, sawcut edge of existing blacktop to a clean vertical face and mop the face with bituminous tack coat prior to paving.
9. Where new pavement will abut existing pavement, a key in trench shall be cut in to a clean vertical face and mop the face with bituminous tack coat prior to paving.

3.5 BITUMINOUS CONCRETE TOP COURSE

1. Install in accordance with relevant portions of Section 460 of the Standard Specifications. Sweep and remove any deleterious materials from the binder course prior to final paving.
2. Where Top Course Mix is used as a leveling course or for grade adjustment and abuts existing pavement, excavate a trench in the existing pavement to the dimensions shown on the plan to "toe" in the new pavement without forming a feather edge. Excavation may be performed by jackhammer, planer or out suitable means. The vertical joint between the old and the new pavements shall be treated with tack coat.
3. Construct Top Course in same manner as for Binder Course. If Binder Course has become dirty or aged for more than 10 days, the binder course shall be treated with Bituminous Tack Coat at the rate of 0.05 gal. per square yard prior to applying Top Course.
4. Pave against and around drain inlets to provide positive drainage into the structure. As a minimum all frames and grates of catch basins shall be set 1" below the finished grade of the pavement.
5. Pave against and around other utility frames and structures to provide flush surfaces.
6. Where no curbs occur, tamp pavement edges to 45 degree angle.
7. Compact pavement by rolling to achieve the specified compaction.
8. Perform rolling to achieve an even and smooth finish without roller marks.
9. All minor surface projections, joints and minor honey combed surfaces shall be ironed out smoothly to grade as may be directed. Should any irregularities, surface defects, honey combing, humps or depressions, ponded areas greater than 1/8" deep, open joints, or other surface defects remain in the top course after final compaction, the defective work shall be corrected by removing and replacing the material to form a true and even surface of regular texture as herein specified.

3.6 DIMENSIONS AND TOLERANCES

Conform to the dimensions shown on the plans and specified herein within the following tolerances:

1. Thickness Tolerances from thickness' shown on plans or specified herein:
   (1) Binder Course: minimum compacted thickness minus 0.0" to plus 0.5".
   (2) Top Course: minimum compacted thickness minus 0.0" to plus 0.5".
2. Elevation tolerance:
   (1) Binder Course: Finished surface of pavement shall conform to design finished grade minus 0.5" to plus 0.5";
   (2) Top Course: Finished surface of pavement shall conform to design finished grade minus 0.25" to plus 0.25";
3. Positive drainage shall be maintained throughout the finished surface. Unless otherwise noted, a paved surfaces shall have a finished slope no less than 1%; preferably 2% minimum. Isolated ponded depressions, or "bird baths", deeper than 1/8" will not be accepted.
4. Finished Grade of pavement shall meet the elevation of existing or proposed Curb Ramps, walkways, sidewalks, stairs, landings, doorway thresholds or other pedestrian areas, to produce no greater than a 3" lip.
5. Smoothness Tolerance: Produce the lines and grades specified within a tolerance of 1/4" in ten feet, as measured with a 10 foot straight edge as per Section 460.67 of the Standard Specifications.

3.7 PROTECTION OF PAVEMENT

1. Protect the finished surface of pavement from traffic until it has properly set and cured. Prevent marring of surface finish during subsequent construction.

3.8 BITUMINOUS CONCRETE PAVEMENT REPAIR

1. Where required in order to install new work, utilities, structures or to match new pavement to existing pavement, remove the existing pavement to the lines required. Sawcut the edges of the pavement to a neat vertical line at least 12" beyond the limit of the trench excavation.
2. Any pavement which is cracked, undermined or raveled during construction shall be cut back by saw cutting to a neat line.
3. Install the utilities or other new work and properly backfill and compact the trench to the subgrade of the pavement, as specified in other sections of these Specifications.
4. Take special care to provide proper compaction of trenches to avoid subsequent settlement of the trench backfill underlying the pavement repair. Contractor shall remove any settled, loose, or unsuitable backfill and replace with clean gravel, compacted to the required density.
5. Remove existing aggregate to a width of at least 6" (six inches) beyond the vertical edge of the excavated trench. Do not undermine existing pavement edge.
6. Install processed gravel borrow for pavement base in maximum 6" (six inch) lifts to the minimum thickness specified for new paving (12" minimum) or the existing gravel thickness in place, whichever is greater.
7. Compact each lift of gravel to 95% of Standard Proctor density for the full width of the repaired area.

8. Mop the saw cut edge of the existing pavement with bituminous tack coat, immediately prior to placing the binder course and top course paving.
9. The thickness of the binder course shall meet the minimum specified for new pavement or the existing thickness, whichever is greater.
10. Place and compact the pavement repair top course to the same thickness as is specified for new work. The new and existing pavement shall be flush, and the joint between old and new pavement shall be tight. Grade the finished surface to drain properly.

3.9 ONE YEAR WARRANTY

1. Contractor shall repair any settlement in the repaired pavement which occurs within the one year warranty period. Remove the area of settled pavement, scarify the gravel subbase, recompact the subbase, adding additional gravel and compact again, and re-pave as specified above.

3.10 TESTING AND INSPECTION

1. The density of the completed pavement shall not be less than 95% of the maximum density obtained from laboratory compaction of the job-mix. Testing shall be performed by the Owner's testing service by nuclear density meter.

PART 4 – MEASUREMENT AND PAYMENT

4.1 Lump Sum Price: This item shall be paid for as part of the contract stipulated price with no separate measurement or payment, except for the following unit price items.

4.2 Unit Price Items: The following items will be measured in place according to the limits specified herein and paid for at the contract unit price:

Note: All unit price items shall include labor, tools, equipment, materials, compacting, dewatering, excavations, backfills, shoring, grading, and any other necessary work to complete the item as specified and as shown on plans. The following are additional requirements for each item.

Item 6, HMA for Water Service Connection, will be measured and paid for at the contract unit price per **ton**. Contractor shall submit signed weight slips for payment consideration. All asphalt paving operations base & top i.e. roadway paving, intersection paving, pavement repairs, driveway transitions, widening, PWW, catch basin areas(berm), walkways and any other paving operations approved by field engineer, will be considered for payment under this item. Price shall include all preparation, materials, equipment and labor and all incidental work, including any required subbase preparation and repair of non-conforming sections of pavements, i.e. “birdbaths” and other non-conformities.

END OF SECTION 02511

SECTION 02521 – CONCRETE PADS FOR CHILLERS & WATER FILLER

PART 1 - GENERAL

1.1 DESCRIPTION

1. Section Includes
   (1) Concrete Pads for Chillers & Water Filler
2. Related Sections

(1) Earthwork	02200
(2) Bituminous Concrete Pavement	02511
(3) Curbing	02525

3. Related Work Performed by Others
   (1) Foundations

1.2 SUBMITTALS

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.
2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this Section:
   (1) Submit proposed Concrete Mix design for each class of concrete for review prior to commencement of work.
   (2) Submit color samples of proposed finished concrete.
   (3) Submit laboratory test data demonstrating conformance to design requirements from samples of proposed Concrete Mix, from a certified independent testing laboratory.
   (4) Expansion Joint Filler
   (5) Curing Compound
   (6) Steel Reinforcement
3. Mockup: Prepare sample panels on site showing:
   (1) Concrete color
   (2) Proposed broom finish and tooling of edges and control joints in sidewalk and apron.
   (3) Scoring pattern on curb ramps.
   (4) Expansion joints, expansion joint filler, and caulking.
   (5) Curing compound
   (6) Mockup panels may be incorporated into the finished work, if accepted.
4. Shop Drawings
   (1) Not applicable
5. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:
   (1) Not applicable

1.3 QUALITY ASSURANCE

1. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

2. Provide concrete mix from the same source throughout construction.
3. Weather Conditions: Concrete work shall be scheduled and carried out only when weather conditions are suitable, the aggregate base course is dry and firm, and the air temperature is above 40° F and stable or rising. Concrete shall not be poured onto frozen or wet ground.
4. Codes and Standards
   (1) Americans with Disabilities Act: Construct finished surfaces to the grades and tolerances shown on the plans and as necessary to comply with applicable portions of Uniform Federal Accessibility Standards pertaining to grading, paving, sidewalks, handicap parking stalls and curb cut ramps.
   (2) Perform work in accordance with ACI-301 and the requirements of the standard specifications, the plans, details, and as stated herein.
5. Performance Requirements: Construct concrete pavement, sidewalks, driveway aprons, and appurtenances to withstand pedestrian and heavy duty traffic loads.

PART 2 – PRODUCTS

2.1 The materials furnished under this Section shall conform to the following specifications. Wherever in this Section the term "MHD Standard Specifications" is used, it shall be read to mean the relevant provisions of the Mass. Highway Department 2025 Standard Specifications for Highways and Bridges, as amended through all Supplemental Specifications issued.

2.2 FORM AND JOINT MATERIALS

1. Wood form materials profiled to suit conditions.
2. Preformed Joint Filler: Bituminous impregnated cane fiber, non-extruding; ASTM D1751, 1/2" thick, as supplied by A.H. Harris or approved equal. Include plastic cap to provide recess for joint sealant
3. Joint Sealant

2.3 REINFORCEMENT

1. Reinforcing Steel and Wire Fabric: Per plans.

2.4 CONCRETE MATERIALS

1. Provide in accordance with Massachusetts Highway Department Standard Specifications, as specified in Section 701.
2. Mix shall be MHD Class D, 4000 psi at 28 days, 3/4" aggregate, 610 pounds per cubic yard cement content, 7% air entrainment (±1%).
   (1) Fiber Reinforced Concrete is not allowed as an alternate.

Concrete Mix Proportions, Quantities per Cubic Yard

cement, sacks	7.0
cement, lbs.	658
sand, lbs.	1200
¾" aggregate, lbs.	1740

Polyheed® 997, oz.	32
micro air, oz.	6.0
water, gals	31
w/c ratio	0.39
gals/sack	4.4
slump, in.	4" +/- 1"

3. Finished color of concrete shall be buff; color to be approved by Engineer.
4. Use of accelerating admixtures in cold weather, or retarding admixtures in hot weather, or use of calcium chloride, shall not be permitted unless specifically allowed in writing by the Engineer.

2.5 AGGREGATE BASE COURSE MATERIALS

1. Processed Gravel Borrow - M1.03.00 Type C
2. Washed Crushed Stone - 1/2" M2.01.05

2.6 ACCESSORIES

1. Curing Compound: Acrylic-based compound having at least 15% solids, conforming to ASTM C309.
2. Liquid Surface Sealer:
   a. Salt guard by Prosoco, Inc. or engineer-approved equivalent.
      1. All exterior concrete slabs, stoops, aprons, sidewalks and patios.
   b. Handle and apply according to manufacturers recommendations.
   c. Apply salt guard sealer to slabs that are a minimum of 28 days old, have been thoroughly moist cured and have been allowed to air dry.
3. Surface Retarder: (Not Applicable)
4. Joint Sealers: Silicon Caulk, color dark-gray (not white).
5. Salt Guard

2.7 Cement concrete handicapped ramps shall be constructed at locations shown on the Plans and in conformance with the MHD Wheelchair Ramp Standards (MassDOT latest edition), the American with Disabilities Act (28 CFR Part 36, July 1991) as amended, and the Architectural Access Board (AAB) Regulations 521CMR as amended. Detectable Warning Panels shall be as specified in MHD Engineering Directive E-04-007 and dated 12/16/2007 and Engineering Directive E-04-003, dated 4/16/2004.

2.8 Welded Steel Wire Fabric shall also consist of meeting the requirements of M8.01.2.

2.9 Filter Fabric: Shall conform to M9.50.0, Geotextile Fabrics, non-woven, Type II.

2.10 The Contractor shall conform to all the handicapped curb ramp requirements prior to placing concrete. Any curb ramps found not conforming shall be removed and replaced by the Contractor at no additional expense to the Town. Final layout of the curb ramps will be reviewed by the Engineer prior to placement of concrete.

2.11 COLOR ADMIXTURE (If Applicable)

Concrete shall be colored by use of an approved concrete coloring agent. Materials and procedures for coloring the concrete shall be as specified in ITEM 701.01. Care shall be taken to ensure that the final concrete color of the ramps and sidewalks match. No variation in color between the ramps and sidewalks shall be allowed. The color of the ramp shall contrast with the color of the detectable warning panel. The concrete coloring agent shall be a color-conditioning admixture meeting the requirements of ASTM C494 as manufactured by:

1. CHROMIX admixture, as manufactured by L.M. SCOFIELD Company, Douglasville, GA. 30134.
2. DUNAMIC COLOR SOLUTINS, Inc., 2024 South Lenox Street, Milwaukee, WI 53207
3. DAVIS COLORS, 3700 East Olympic Blvd., Los Angeles, CA 90023
4. An Engineer approved equivalent.

PART 3 – EXECUTION

3.1 GENERAL: Refer to MHD Standard Specifications where applicable.

3.2 PREPARATION

1. Subgrade and gravel base shall be completed.
2. Insure that all utility mains, conduits, structures, light pole bases, fence post or railing sleeves or bases, weep holes, and embedded items, which occur within or near the area to be covered, have been properly installed, tested and inspected.
3. Insure that compaction and fine grading of the aggregate base, testing and inspection has been completed to required tolerances.
4. Any areas of the aggregate base course which are not within the required tolerances shall be scarified, re-graded and re-compacted to the required lines and grades prior to placing concrete.
5. Adjust all castings, frames, grates, valve boxes, manhole covers, embedded items, and other structures to finished grade prior to placing concrete.
6. Where existing fire hydrants, traffic light poles and other structures are to remain in place, insure proper clearance from new finished grade.
   (1) Minimum clearance between outside of nozzle to finished grade = 12".
7. Do not cover base plate or bolts of light poles, traffic light poles or other fixtures.
8. Insure that all utility and underground structures have been located, tie measurements taken, and record documents updated prior to placing concrete.
9. Where concrete work is adjacent to bituminous concrete pavement, curbing, wheelchair ramps and curb cuts, building facades and doorways, insure that work lines, grades, and sequences have been properly coordinated.

10. Notify Engineer at least 72 hours prior to initial commencement of concrete pouring in each area, and at least 24 hours prior to individual pours.
11. Lay out lines and grades. Review layout with Engineer in field prior to forming.

3.3 FORMING

1. Place and secure forms to correct location, dimension, elevation, profile, and gradient. Lay out forms to produce the patterns of score joints, expansions joints, and alignments shown on the plans and as directed in the field.
2. Assemble form-work to permit easy stripping and dismantling without damaging concrete.
3. Place joint filler vertical in position, in straight lines. Secure to form-work during concrete placement.
4. Place a polyethylene moisture barrier over prepared aggregate base course.
5. Where indicated under brick pavers, install weep holes filled with clean washed stone covered with filter fabric through concrete base. Recess top of weep holes approximately 1/2" below adjacent finished grade of concrete base to allow collected water to drain. Temporarily cover top of weep hole with plastic

3.4 REINFORCEMENT

1. Place reinforcement as indicated on the plans.
2. If welded wire mesh is used, a first layer of concrete shall be placed on the prepared subgrade of the formed panel. The wire mesh shall be placed onto the first layer in order to assure that mesh is at approximately the middle of the thickness. The top layer of concrete is then placed and finished. Do not allow concrete layers to set between pours.
3. Interrupt continuous steel reinforcement at expansion joints.
4. If Fiber Reinforcement is used, the fibers shall be added and mixed at the concrete batching plant. Standard procedures for placing, finishing, and curing the concrete shall be followed when using fiber reinforced concrete.

3.5 PLACING CONCRETE

1. Coat surfaces of forms, manhole or catch basin frames with oil to prevent bond with concrete.
2. Place all concrete for sidewalks, handicapped curb cut ramps, driveway aprons, and other flatwork in accordance with the relevant portions of Section 03300 and section 476 and 701 of the MHD Standard Specifications.
3. Ensure that reinforcement, inserts, embedded parts, formed joints, and other required components are in proper position during concrete placement.
4. Ensure that reinforcement bars and wire mesh are properly supported and raised to provide required clearances.
5. Place concrete continuously over the full area of the panel and between predetermined construction joints. Do not break or interrupt successive pours such that cold joints occur.
6. Place concrete to the patterns indicated on the plans.

3.6 JOINTS

1. Place expansion joints at pre-determined intervals as detailed on the plans. Align joints in sidewalk with curbs, walls, ramps, stairways, as shown on the plans and as directed. Recess top of joint filler as indicated. Maximum distance between expansion joints shall be twenty feet (20').
2. Place preformed joint filler between concrete surface and buildings, retaining walls, concrete steps, and other structures. Recess top of joint filler by 1/2" below finished surface and fill the recess with silicon caulk.
3. All intersecting faces of accessible curb ramps and driveway aprons shall have a tooled control joint. Pre-formed expansion joint fillers, ½" thick shall be installed to the full depth of the concrete around all three sides between the ramp or apron and the sidewalk.
4. Place asphalt impregnated building felt against new curbing and walls to act as a bond breaker. Recess top of felt approximately 1/2" below finished surface.
5. Provide scored contraction joints at intervals and patterns shown on plans. The maximum panel area shall not exceed 36 square feet. The depth of scoring shall be at least one inch (1").
6. All joints and transitions between sections and adjoining work shall be smooth and flush, so as to avoid trip hazards for pedestrians, and to prevent trapping drainage.

3.7 FINISHING

1. Finishing operations shall be performed while free water is present. Do not work bleed water back into the surface during finishing.
2. Once all bleed water and sheen have left the surface and the concrete has begun to stiffen, carry out screeding, floating, edging, tooling and jointing operations.
3. Apply surface finish and edging as follows:
   (1) Sidewalk Paving: Light Broom finish perpendicular to sidewalk direction.
   (2) Tool joint edges to dimensions and radius shown on plans, including the edge along the back of the curbing.
   (3)Accessible Curb Ramps: Light Broom finish perpendicular to slope. Tool joint edges. Detectable warning panel as shown on plan.
4. Driveway Aprons: Light Broom finish perpendicular to sidewalk direction. Tool joint edges to dimensions and radius shown on plans.
5. Concrete Base for Brick Pavers: Wood float finish. Contour surface to create positive drainage to weep holes.
6. Seal concrete per manufacturer’s specifications for salt protection.

3.8 TOLERANCES

1. General
   (1) Maximum Variation of Surface Flatness: 1/4 inch in ten feet measured with a straight edge.
2. Accessible Curb Cut Ramps

(1) Curb cut ramps shall be constructed at the locations and configurations as shown on the plans, and shall meet the requirements of the Americans with Disabilities Act, Uniform Federal Accessibility Standards.
(2) The maximum slope of the ramp shall be 1:12 (except a maximum of 1:10 where required to meet existing conditions, as shown on the plans and details).Maximum rise shall be 6".
(3) Minimum width of ramp shall be as shown on plan (4' minimum).
(4) Finished surface of ramp shall be flush with the finished pavement surface and adjacent sidewalk surface (tolerance = minus 0" to plus ¼").
(5) Flared sides shall have a maximum slope of 1:12 unless otherwise directed.

3. Concrete Sidewalks and Paver Base
   (1) Construct concrete sidewalks and concrete base for pavers in accordance with the plans and details. All sidewalks are intended to be used primarily by pedestrians, but shall be constructed to withstand vehicular traffic from delivery vehicles and emergency vehicles.
   (2) All concrete sidewalks and concrete base for pavers shall be constructed to the grades shown on the plans, and shall be sloped to drain at a slope of at least one percent (1.00%) and no more than five percent (5.00%) in the direction of travel. Maximum cross slope of any walkway surface shall not exceed two percent (2.00%), unless otherwise directed.

3.9 CONCRETE DRIVEWAY APRONS

1. Concrete driveway aprons shall be constructed to the lines, grades, and thickness shown on the plans and details. Apron shall be constructed so as to be easily mountable by passenger vehicles, trucks and emergency vehicles.
2. Concrete aprons shall be constructed to withstand heavy vehicle loads.

3.10 CONCRETE CURB RAMPS WITH DETECTABLE WARNING PANELS

1. Cement concrete handicapped ramps shall be constructed at required locations in conformance with the MHD Wheelchair Ramp Standards (16 MAY 96), the American with Disabilities Act (28 CFR Part 36, July 1991) as amended, and the Architectural Access Board (AAB) Regulations 521CMR as amended. Detectable Warning Panels shall be as specified in MHD Engineering Directive E-04-007 and dated 12/16/2007 and Engineering Directive E-04-003, dated 4/16/2004 (see attached details).
2. The Contractor shall conform to all the handicapped curb ramp requirements prior to placing concrete. Any curb ramps found not conforming shall be removed and replaced by the Contractor at no additional expense to the Town. Final layout of the curb ramps will be reviewed by the Engineer prior to placement of concrete.
3. Contractor shall adequately protect wet concrete from vandalism as required. Vandalized portion of sidewalk will not be accepted by the Town and the Contractor shall replace any vandalized sidewalk at no additional expense to the Town.
4. After removal of the existing pavement and concrete, the underlying subbase material shall be graded to provide a uniform pavement replacement depth

and compacted to not less than 95 percent of maximum dry density of the material before placement of the new cement concrete material.

5. Concrete sidewalks and concrete base shall be placed on a compacted gravel base per details. Any utility structures located within the sidewalk shall be adjusted to grade.
6. The cement concrete sidewalk formwork shall be installed for a 6-inch slab thickness at all areas.
7. Repair all disturbed bituminous concrete driveways and bituminous concrete curbing where the sidewalk is proposed. All driveway transitions shall be sawcut to allow for a flush joint with existing pavement. The transitions shall be reasonable and will vary due to existing slopes.
8. The contractor shall saw cut full depth all intermediate joints along the new concrete sidewalks, incidental to item.

3.11 PROTECTION OF SURFACES

1. Immediately after placement, protect finished concrete from premature drying, excessive hot or cold temperatures, mechanical injury, vandalism, or other factors which might damage the concrete or mar the finished surface.
2. Place curing compound on exposed concrete surfaces immediately after finishing. Apply in accordance with manufacturer's instructions.
3. Contractor shall take all necessary measures to protect the concrete surface from marring, including, but not limited to posting a guard at the worksite to prevent vandalism.
4. Do not permit pedestrian or vehicular traffic directly over the finished surface of the concrete for at least seven days after finishing. In the case of driveway aprons, protect the surface with plates, boards, or other such means. In the case of sidewalks providing direct access to businesses or homes, protect the surface by providing bridging, plates, or other means sufficient to allow access without damaging the surface.

3.12 TESTING AND INSPECTION

1. Contractor's Testing Firm will take cylinders and perform slump and air entrainment tests in accordance with ACI-301, as per the following:
2. Four concrete test cylinders will be taken for every 50 cubic yards or less of concrete placed each day.
3. One slump test, concrete and air temperature, and one air entrainment test will be taken for each set of test cylinders taken.
4. Contractor shall provide the testing firm with a nearby location for on-site storing of the test cylinders during the initial curing period.
5. Concrete cylinders will be broken: one at seven days, one at 14 days, two at 28 days.
6. Any concrete work which does not achieve the required strength as evidenced by the concrete testing shall be removed by the Contractor and replaced at no additional cost.

3.13 ADDITIONAL REQUIREMENTS

1. After removal of the existing pavement and concrete, the underlying subbase material shall be graded to provide a uniform pavement replacement depth and compacted to not less than 95 percent of maximum dry density of the material before placement of the new cement concrete material.
2. Concrete sidewalks and concrete base (if applicable) shall be placed on a compacted gravel base or crushed stone base per details. Any utility structures located within the sidewalk shall be adjusted to grade.
3. The cement concrete sidewalk formwork shall be installed for a 6-inch slab thickness at all areas.
4. Repair all disturbed bituminous concrete driveways and bituminous concrete curbing (if applicable) where the sidewalk is proposed. All driveway transitions shall be sawcut to allow for a flush joint with existing pavement. The transitions shall be reasonable and will vary due to existing slopes.
5. The contractor shall saw cut full depth all intermediate joints along the new concrete sidewalks, incidental to item.
6. Back of sidewalk grades shall be blended into existing grades, lawns, etc.

PART 4 – MEASUREMENT AND PAYMENT

4.1 Unit Price Items: The following items will be measured in place according to the limits specified herein and paid for at the contract unit price:

Note: All unit price items shall include labor, tools, equipment, materials, compacting, dewatering, excavations, backfills, shoring, grading, fine grading and any other necessary work to complete the item as specified and as shown on plans. The following are additional requirements for each item.

Item 5, Concrete Pads – Chillers & Water Filler will be measured and paid for by the **square yard**, complete in place which price will include wire mesh, expansion joints, filling joints, salt guard, coloring ad mixtures (if applicable), sawcutting and matching existing surfaces, labor, tools, equipment, materials, and incidental work required to complete the work.

END OF SECTION 02521

SECTION 02660 – WATER DISTRIBUTION SYSTEM

PART 1 – GENERAL

1.1 DESCRIPTION

1. Section Includes:
   (1) Water Main
   (2) Line Valving
   (3) Hydrant Assembly
   (4) Meter Pit
   (5) Fittings, Reducers, Bends, etc.
   (6) Thrust Restraint
   (7) Water Service Connections
   (8) Testing
   (9) Abandon Existing Water Line(s)
2. Related Sections

(1) Earthwork	02200
(2) Bituminous Concrete Paving	02511
(3) Loam, Seed, and Cleanup	02900

1.2 SUBMITTALS

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.
2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this Section:
   (1) Water Main
   (2) Hydrant Assembly
   (3) Fittings, Reducers, Bends, etc.
   (4) Repair Sleeves, Clamps
   (5) Thrust Restraint Rods
   (6) Gate Valve
   (7) Valve Box
   (8) Water Service Connections
3. Shop Drawings:
   (1) Submit Temporary Water Service Plans as Required
4. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:
   (1) Tie measurements and depths at all valves, bends, service connections, curb stops.
   (2) Notation of locations, volume and characteristics of any trench rock excavation or groundwater conditions encountered.
   (3) Notation of locations and characteristics of all utility crossing whether live or abandoned; clearance, condition, etc.

1.3 QUALITY ASSURANCE

1. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the

specified requirements and the methods needed for proper performance of the work of this Section.

1.4 CODES AND STANDARDS

1. Municipal Public Works Department specifications and installation requirements, especially with regard to threading of nozzles, open direction for valves and hydrants, and acceptable manufacturers. Obtain required permits and inspections.
2. National Fire Protection Association (NFPA) Standard 24, Installation of Private Fire Service Mains and their Appurtenances, latest edition.
3. Plumbing Code Compliance: Comply with applicable portions of Massachusetts Standard Plumbing Code pertaining to selection and installation of potable water system materials and products.
4. AWWA Section C-600 and Section C651.

PART 2 – PRODUCTS

2.1 The materials furnished under this Section shall conform to the following specifications. Wherever in this Section the term "MHD Standard Specifications" is used, it shall be read to mean the relevant provisions of the Mass. Highway Department 2025 Standard Specifications for Highways and Bridges. All products shall be North American made.

2.2 DUCTILE-IRON PIPE

1. AWWA C151, thickness class 52.
2. Lining: AWWA C104, cement mortar, seal coated, double cement lined.
3. Gaskets, Glands, and Bolts and Nuts: AWWA C111.
4. Push-On Joint Type Pipe: AWWA C111, rubber gaskets.
5. Mechanical-Joint-Type Fitting: AWWA C111, rubber gaskets, ductile or cast-iron glands, and steel bolts and nuts “Megalug” or approved equivalent.
6. Pipe shall be U.S. pipe, Griffon Pipe, Clow Corp., or approved equal.

2.3 COPPER TUBE

1. ASTM B 88, Type K

2.4 GATE VALVES

1. AWWA C515, ductile-iron body and bonnet, stem nut, 200 psig working pressure, mechanical joint ends, and retainer glands.
2. Shall be epoxy coated resilient wedge style.
3. Open Direction: As specified by municipal Public Works Department
4. Manufacturers: Kennedy, or as approved by municipal Public Works Department.

2.5 VALVE BOXES

1. Cast-iron box having top section and cover with lettering "WATER"; bottom section with base of size to fit over valve and barrel approximately 5 inches (124 mm) in diameter, and adjustable cast-iron extension of length required

for depth of bury of valve plus six inches for future adjustment. To be North American made.

2.6 TAPPING SLEEVE AND TAPPING VALVE – N/A

1. Complete assembly, including tapping sleeve, tapping valve, enlarger fitting, and bolts and nuts. Use sleeve and valve compatible with tapping machine and existing and proposed water main. Tap to be made under pressure.
2. Tapping sleeve shall be stainless steel integral mechanical joint outlet.
3. Tapping sleeve shall be certified to ANSI/NSF-61.
4. Tapping sleeve shall be U.S. pipe H 304MJ or equal.

2.7 HYDRANT

1. Hydrants shall be compression type with valve opening against the pressure and have a minimum rated water working pressure of 200 psi.
2. The hydrant valve opening shall have a minimum diameter of 5 ¼ inches.
3. The inlet connection shall be six-inch mechanical joint furnished with wedge action mechanical joint restraint gasket, gland and bolts, North American made, Megalug by Ebba Iron or equal and shall meet the requirements of AWWA Specification C111 (ANSI A21.11). All hydrant bolts above and below grade shall be stainless steel.
4. The minimum bury length shall be 5 ½ feet minimum or as required in each individual specification. Minimum height from finish grade to center of lowest nozzle shall be 18".
5. Hydrants shall be furnished with two 2 ½ inch hose nozzles and one 5 inch Storz pumper nozzle. Hose nozzles shall be furnished with National Standard fire hose coupling screw thread. Nozzles are to be bronze or aluminum (Storz) and designed to permit field replacement without special tools or excavation.
6. The hydrant operating and outlet nozzle cap nuts shall open to the left (counterclockwise) and shall be National Standard pentagonal with a flat to point dimension of 1 ½ inches.
7. The color of the hydrant shall be red.
8. The hydrant design shall be such that the extension of the hydrant or the repair and/or replacement of the main working parts of the hydrant can be accomplished without excavation.
9. Hydrant shall be of the traffic model breakaway type.
10. The hydrant shall be Kennedy Guardian, K81A or K81D, as manufactured by ITT Kennedy Valve. The Town has standardized on Kennedy Gaurdian, K81A or K81D hydrants manufactured by ITT Kennedy Valve, as such, there is no approved equal.

2.8 FITTINGS

1. Corporation Stop and Curb Cock-Bronze body as per Municipal DPW requirements.
2. Corporations: corporations, with compression joints, shall be in accordance with ANSI/AWWA C800-84 and shall be one (1) inch minimum Mueller or Ford Corporation Ball Valves, or approved equal. Corporations shall be ball

type AWWA (CC) by Compression.

3. Curb Stops and Boxes: Curb stops shall be provided with compression ends, shall be in accordance with ANSI/AWWA 800-84 and shall be one (1) inch minimum diameter Mueller or Ford Curb Ball Valves, or approved equal. Provide brass transition fittings as required to connect the new one (1) inch curb stop and service line to existing service line. Curb boxes located outside of the road surface shall be Erie style with a cast iron two hole cover with a bronze thread inset, five (5) foot bury. Box extensions shall also be provided if bury depths exceed five (5) feet. The curb box shall have a 9/16ths inch-stainless steel service box rod 24" long and an arched foot pieces for the centering over the proper size curb stop without transferring weight on the stop or service line. The foot piece shall be set on a 4" x 8" x 16" concrete block for support below the curbs stop. For curb boxes required to be located within the road surface, an additional 5.25" upper valve box section, 26" in height, and cover shall be installed around the curb box. The curb box cover shall be a 5 sided plug style and be left 6" down from 5.25" valve box cover. Curb stops shall be placed outside the back edge of proposed sidewalk. Curb stops required to be placed within the sidewalk shall have a curb box and cover according to the water main specification. Curb Stops and Boxes shall be North American made.

2.9 ANCHORAGE MATERIALS

1. Miscellaneous Steel
   (1) ASTM A 506 clamps, straps, and washers;
   (2) ASTM A 575 rods;
   (3) ASTM A 307 bolts.
2. Miscellaneous Iron
   (1) ASTM A 197 malleable iron, rod couplings;
   (2) ASTM A 126 gray iron, cast-iron washers.
3. Concrete for thrust blocks and anchors: Portland cement concrete mix, 3000 psi; with ASTM C 150, Type I cement; ASTM C 33 sand and crushed gravel; and potable water.
4. Ductile-Iron and Cast-Iron Pipe Fittings: AWWA C 110, ductile-iron or cast-iron, 250-psig (1725 kPa) minimum pressure rating; or AWWA C 153, ductile-iron compact fittings, 350-psig (2400 kPa) pressure rating. Include AWWA C 104, cement mortar, seal-coated lining.

2.10 METER PIT

1. Furnish and install plastic pit meter setter with cover. Pit shall have 20" inside diameter, inlet angle ball valve, and a residential style dual check valve on the outlet. A pressure regulator shall be installed in the pit before the meter if water pressure is 150 psi or more. Meter setter piping shall be of proper height to allow changing of meter without excavation. Meter pit shall be Ford Plastic Pit Setter or approved equal. Cover shall be cast iron with double lid. Cover shall be Ford Wabash style W3 or approved equal.
2. Contractor to furnish and install one pressure treated 4"x4" post, 4' in height above ground level suitable to the Lenox DPW. Furnish and install 1/2"

conduit at a depth of 1' between the meter pit and post.
3. Pit shall be installed off road or driveway where feasible.
4. Furnish and install a curb stop between the water main and meter pit.
5. No plastic pipe shall be installed between the water main and meter pit.
6. Installation shall be pressure tested and approved prior to final acceptance.
7. Install 2" meter and Neptune R900 radio read. Meter shall be Neptune T-10 E-Coder pit style encoder and oval flanges. Readout to be in gallons. Town of Lenox shall furnish 5/8" x 3/4" meter with radio read for $250.00 or 1" meter with radio read for $400.00.

2.11 WATER MAIN INSULATION-N/A
1. Water main insulation shall be Trymer 2000 XP Polyisocyanurate Insulation or approved equal.
2. Vapor retarder shall be Saran 560 CX or approved equal.

PART 3 – EXECUTION

3.1 GENERAL
1. Refer to MHD Standard Specifications where applicable.
2. Municipal Standards and Specifications: Refer to municipal Public Works Department standards and specifications.
3. Do not operate any valves on the Public Water System without the prior approval of the municipal Water Department.
4. Coordinate with municipal Public Works Department before performing any operations on the Public Water System, including tapping water main, flushing lines, flow testing, excavation, backfilling, and pavement repair.
5. Excavation, trenching, and backfilling are specified in Section 02200 "Earthwork."

3.2 SPECIAL CONDITIONS
1. Design Pressure: All components of the Water Distribution System shall be designed for Working Pressure of 200 psig.
2. Piping Applications: Refer to "Products" article for detailed specifications for pipe and fittings products listed below.
   (1) Use pipe, tube, fittings, and joining methods according to following applications.
   (2) 3 Inches (80 mm) and Smaller: Copper tube, Type K.
   (3) 4 Inches (100 mm) to 8 Inches (200 mm): Ductile-iron pipe, ductile-iron or gray-iron fittings, and push-on or mechanical joints.
   (4) Drawings indicate valve types to be used. Where specific valve types are not indicated, the following requirements apply:
   (5) Buried Valves 3 Inches (80 mm) and Larger: AWWA, gate valves, non-rising stem, with valve box.
3. On all water pipe and fittings, contractor shall make provisions for the electrical continuity of the pipeline. This may be accomplished by inserting three (3) serrated bronze wedges into the joint. Wedges shall be placed at 3 o'clock, 9 o'clock, and 12 o'clock positions. Confirm with Town that this is

required prior to installation.

4. Service connections will include a new corporation, copper tubing and brass adapter coupling. Length of new copper tubing shall be kept to a minimum. The new service connection shall be new 1" copper extending from the Main to the edge of the right-of-way and new 1" curb stop unless otherwise indicated, or as directed by the engineer.

3.3 JOINTS

1. Ductile-Iron Piping Gasketed Joints: Construct joints according to AWWA C600. Mechanical Joints (Mega Lug).
2. Threaded Joints: Apply tape or joint compound and apply wrench to valve ends into which pipes are being threaded.
3. Copper Tube and Fittings, Soldered Joints: Construct joints according to AWS "Soldering Manual," Chapter "The Soldering of Pipe and Tube."
4. Install fittings for all changes in direction (horizontal or vertical) and branch connections.
5. Install unions, in piping 2 inches (50 mm) and smaller, adjacent to each valve.

3.4 WATER MAIN CONNECTION (UNDER PRESSURE)

1. Arrange with water utility for connection to in water main, of size and in location indicated.
2. Tap water main under pressure with size and in location as indicated according to requirements of water utility.
3. Obtain all permits required for work in the state highway right-of-way and for work on the Town's water main.
4. Connect to existing water main tee with size and in location as indicated according to requirements of water utility.
5. Install tapping sleeve and tapping valve according to manufacturer's installation instructions.
6. Position flanged outlet for gate valve.
7. Install gate valve. Comply with AWWA C600. Install valve with stem pointing up and with cast-iron valve box.
8. Use tapping machine compatible with valve and tapping sleeve; cut hole in main. Remove tapping machine and connect water service piping.
9. Use existing water valve stub for water main extension at the properly line as indicated on the plans.
10. Minimum cover 5 feet in paved and unpaved areas; maximum cover 7 feet in all areas unless otherwise approved.
11. Pipe bedding and backfill and installation methods shall conform to the pipe manufacturer's recommendations.

3.5 WATER MAIN CONNECTION (ACTIVE LINE DRAINED)

1. If a tap under pressure is not possible or feasible, minimize the number and duration of the shutdown of the active water and/or fire main.
2. Make all necessary arrangements with the Owner, municipal Water Department and Fire Department.
3. Be prepared with all necessary equipment, tools, hardware, manpower, repair

clamps and sleeves, pumps, thrust restraints, disinfection materials, flushing equipment, etc. Have a written emergency response plan in effect before beginning work.
4. Use extreme care in slowly opening and closing valves.
5. Isolate the smallest possible section of water main to be worked on.
6. Drain water from main into a suitable drainage structure; do not cause erosion.
7. Disinfect the water main.
8. After connection is made and thrust restraint is in place and secure, slowly refill main and expel air from all parts of the water main. Check for leaks.
9. Carefully restore service and check system for proper pressure, flow, and safe conditions. Confirm that water is properly disinfected prior to allowing use.
10. Minimum cover 5 feet in all areas; maximum cover 7 feet in all areas unless otherwise approved. Where cover is less than 5 feet, water main shall be insulated.
11. Pipe bedding and backfill and installation methods shall conform to the pipe manufacturer's recommendations.

3.7 FIRE HYDRANTS

1. Comply with AWWA-M17.
2. Verify bury depth of existing and proposed water mains in advance of ordering hydrant assembly. Assure that the hydrant length is adequate to provide clearances from finished grade to the pumper nozzles of at least 18" but no more than 24".
3. Hydrant extension assemblies necessary to achieve proper height for clearance will only be allowed or paid for as additional work if required due to changed conditions which could not be foreseen or verified in advance by the Contractor. Hydrant extensions, if required to meet the line and grades indicated on the plans and herein, will be considered incidental.
4. Set hydrant plumb and to grade, with all nozzles clear above finished grade by at least 18" but no more than 24".
5. Provide 5' radius around all fire hydrants clear of any obstructions and with a slope < or equal to 5%.
6. Locate pumper nozzle perpendicular to and facing roadway.
7. Locate control valve as close to hydrant as possible. Provide proper thrust restraint and anchor tees. However, if the control valve is a lateral valve, it should be mounted at the anchor tee for the hydrant lateral piping.
8. Provide a drainage pit 36" square by 24" deep filled with washed crushed stone. Encase elbow of hydrant in washed crushed stone to 6" above drain opening.
9. Paint hydrant with primer and two coats of finish enamel; color in municipal standards.

3.8 DISTRIBUTION PIPING

1. Install ductile-iron pipe and ductile-iron and cast-iron fittings according to AWWA C600.
2. Install copper tube and wrought-copper fittings according to CDA No. 404/0

"Copper Tube Handbook."

3. Bury piping to provide a minimum depth of cover over pipe of five (5) feet below finished grade.
4. Concrete arches or cradles shall be constructed where necessary as detailed on the drawings. A concrete arch or cradle shall be provided where pipes cross with less than 6 inches of vertical clearance.

3.9 THRUST RESTRAINTS

1. Install anchorages and thrust blocks for tees, plugs and caps, bends, crosses, valves, and hydrant branches.
2. Restraints shall be sized for the working pressure, pipe size and fitting type.
3. Apply full coat of corrosion-retarding material to surfaces of installed ferrous anchorage devices.
4. Concrete Thrust Blocks: Thrust blocks shall be poured against undisturbed earth in accordance with plans. The minimum bearing area for thrust blocks shall be 6 square feet against undisturbed earth for 6 inch and 8 inch diameter pipes. Concrete blocks to anchor vertical bends shall contain at least 1-1/2 cubic yards of concrete. Do not backfill concrete until concrete has hardened at least 12 hours. See details for more information.

3.10 VALVES

1. Use mechanical-joint-end valves for 3-inch (80 mm) and larger buried installation.
   (1) Valve shall open per municipal requirements
   (2) Resilient wedge
   (3) Epoxy coated ductile iron meeting AWWA C515
2. Use bronze corporation stops and valves, with ends compatible with piping, for 2-inch (50 mm) and smaller installation.
3. AWWA-Type Gate Valves: Comply with AWWA C600. Install buried valves with stem pointing up and with cast-iron valve box.
4. Bronze Corporation Stops and Curb Stops: Comply with manufacturer's installation instructions. Install buried curb stops with head pointed up and with cast-iron curb box.
5. AWWA-Type Fire Hydrant Installation: Comply with AWWA M17. Install with gate valve and make provision for drainage as indicated.

3.11 DISINFECTION

1. Disinfection of the water main shall conform to ANSI/AWWA C651-92. The completed pipeline is to be disinfected with a chlorine concentration of approximately 50-ppm prior to being placed in service. The introduction of this chlorine concentration of approximately 50 ppm shall occur prior to being placed in service. The introduction of this chlorine may be accomplished using one of the following methods:
   (1) By sticking calcium hypochlorite tablets to the interior wall of each length of pipe as it is laid; or
   (2) By pumping or siphoning a calcium hypochlorite solution into the main during the initial filling operations.

2. Regardless of the method employed, the chlorinated water is to remain in the new pipeline for a period of at least 24 hours (unless otherwise directed). During this period, proper precautions are to be taken to prevent this chlorinated water from flowing back into the existing system.
3. After all disinfection and leakage/pressure testing is completed, the Contractor shall blow out the new water mains under the direction of the Engineer and/or the water department. Blowing out of the main is to be accomplished at as high a velocity as possible consistent with the ability of the area around the blow-off point to drain the water. After clean water substantially free of chlorine is obtained at the blowoff point, the flow of water at reduced rates is to be continued for at least one hour.
4. The contractor shall have the water in the main tested by and independent state-registered testing laboratory selected by the owner. Testing shall be done in accordance with AWWA testing and disinfection requirements. Coliform count shall be zero (0). Submit written report of test results to Town, Owner and Engineer. Do not put new main into service until proper disinfection is achieved according to test results.
5. Disinfection of Service Connections:
   (1) Disinfection of water service connection shall comply with the requirements of the State Plumbing Code, 248 CMR 2.14(15).
6. Contractor shall provide enough sampling points, as project is done in phases, to properly disinfect and test the main.

3.12 TESTING

1. After thrust blocks have sufficiently cured, the Contractor shall test all sections of the water mains for leakage and furnish all necessary materials, equipment and labor to perform the tests as herein specified and as directed by the Engineer.
2. All water mains or service lines shall be flushed clean and inspected for major defects before testing.
3. The water main shall be pressure tested and leak tested in accordance with NPPA-24. The method of test shall be as follows:
   (1) The pipeline under test shall be raised to at least 200 psi or 150% of working pressure whichever is greater and maintained at that pressure by pumping clean water into the pipeline.
   (2) Expel all air from line and hold test pressure for 4 hours or until approved by the Engineer.
   (3) The leakage shall be determined by measuring the amount of water required to maintain the test pressure after air has been expelled.
   (4) The maximum allowable leakage shall be determined from the following formula:

$$L = \frac{N*D*(P)^2}{3700}$$

where L = Allowable leakage in gallons per hour
N = Number of joints
D = Nominal pipe diameter in inches
P = Average test pressure in pounds per square inch

4. Any section of the water mains or service connections which fails to pass the pressure and leakage test shall have the defect located, and without additional compensation, repaired or replaced and retested until the work is satisfactory to the Engineer and Owner.
5. Contractor shall prepare and submit NFPA-24 Certification Form to Owner and Engineer.

PART 4 – MEASUREMENT AND PAYMENT

4.1 Unit Price Items: The following items will be measured in place according to the limits specified herein and paid for at the respective Contract Unit Price:

All unit price items shall include labor, tools, equipment, materials, compacting, dewatering, excavations, in situ backfill, shoring, grading, and any other necessary work to complete the item as specified and as shown on plans or as directed by the Field Engineer. The following are additional requirements for each item.

Excavation will be considered incidental. Trench protection and dewatering will be considered incidental work.

Rock excavation will be paid for separately under Item 2.

Replacement borrow for insufficient or unsuitable backfill material will be paid for separately under Item 3. Use of replacement borrow is to be coordinated with the Owner and the Engineer prior to the work being performed.

No payment will be made for extra depth excavation unless unforeseen circumstances warrant deeper installation than shown on the plans/profiles.

Thrust restraints at all horizontal and vertical bends are incidental.

Title 5 Sand for pipe bedding will be considered incidental.

Item 9, Water Service Assembly with Branch Tee to Yard Hydrant, will be measured and paid for at the contract unit price, per **each**, which price shall include all labor, materials, tools, equipment, and all incidental work thereto.

Item 10, Water Meter Assembly, will be measured and paid for at the contract unit price, per **each**, which price shall include all labor, materials, tools, equipment, and all incidental work thereto.

Item 11, Water Filling Station, will be measured and paid for at the contract unit price, per **each**, which price shall include all labor, materials, tools, equipment, and all incidental work thereto.

Item 12, Yard Hydrant – Frost Free, will be measured and paid for at the contract unit price, per **each**, which price shall include all labor, materials, tools, equipment, and all incidental work thereto.

END OF SECTION 02660

ELKAY®
SPECIFICATIONS

Elkay Outdoor ezH2O Bottle Filling Station Pedestal Non-Filtered Non-Refrigerated Freeze Resistant
Model LK4400BFFRK

PRODUCT SPECIFICATIONS

Elkay Outdoor ezH2O® Bottle Filling Station Pedestal, Non-Filtered Non-Refrigerated Freeze Resistant. Features shall include 316 Stainless, Laminar Flow, Heavy Duty Vandal Resistant, Sealed Freeze Resistant. Mechanical Front Bubbler Button activation. Product shall be Floor Mount/Freestanding, for Outdoor applications, serving 1 station(s). Unit shall be lead-free design which is certified to NSF/ANSI 61 & 372 (lead free) and meets Federal and State low-lead requirements.

Special Features:	316 Stainless, Laminar Flow, Heavy Duty Vandal Resistant, Sealed Freeze Resistant
Finish:	Beige (BGE), Black (BK), Blue (BLU), Brown (BRN), Evergreen (EVG), Gray (GRY), Orange (ORN), Purple (PUR), Red (RED), Terracotta (TER), White (WHT), Yellow (YLW)
Power:	No Electrical Required
Bubbler Style:	No Bubbler
Activation by:	Mechanical Front Bubbler Button
Mounting Type:	Floor Mount/Freestanding
Chilling Option:	Non-refrigerated
Dimensions (L x W x H):	14" x 14" x 64"
Approx. Shipping Weight:	203 lbs.
Installation Location:	Outdoor
No. of Stations Served:	1

Special Note: Bottle Filler Stations-1, Choose from 12 color options

- Mechanically-Activated bubbler continues to supply water in event of service disruptions.
- Laminar flow provides clean fill with minimal splash.
- Base material constructed from marine-grade 316 stainless steel provides the ultimate corrosion protection from even the most corrosive elements.
- Sealed Freeze Resistant Valve System: Fully sealed freeze resistant system that minimizes chance of ground water contamination, and prevents drain water from mixing with fresh water. Designed for ground installation below the frost line.

AMERICAN PRIDE. A LIFETIME TRADITION.
Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

Included with Product: **Outdoor Bottle Filler, Freeze Resistant Valve**

▼ Ships in multiple boxes.

PRODUCT COMPLIANCE

ADA & ICC A117.1

Buy American Act

GreenSpec®

NSF/ANSI 61 & 372 (lead free)

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary.

Installation Instructions (PDF)

Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.

Warranty (PDF)

PART:_____QTY: _____

PROJECT:_____

CONTACT:_____

DATE:_____

NOTES:_____

APPROVAL:_____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Elkay Outdoor ezH2O Bottle Filling Station Pedestal Non-Filtered Non-Refrigerated Freeze Resistant
Model LK4400BFFRK

OPTIONAL ACCESSORIES

LK4471LHB - Locking Hose Bib
97890C - Accessory - Direct Bury Adaptor

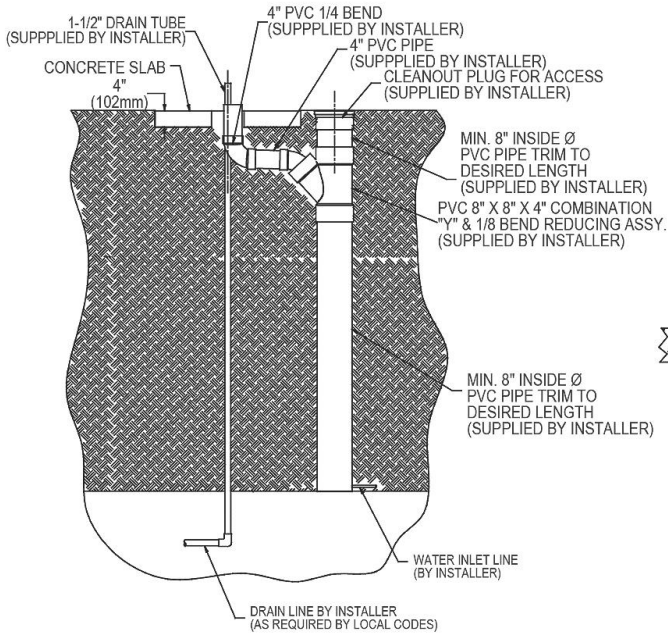
MOUNTING INSTRUCTIONS and PLUMBING CONNECTIONS

Site and drainage excavation is required for fountain installation. Refer to owner's manual for site preparation details. Provide solid, well-drained smooth, flat, finished surface to mount pedestal fountain (concrete pad recommended) with adequate support (300 lb. load minimum). (6) 3/8" minimum fasteners (not included) should be attached securely to mounting surface in order to secure fountain, (Refer to rough-in diagram), and be sure to allow an opening for the freeze-resistant valve in the ground as shown in the installation instructions that accompany the fountain. (Refer to the rough-in diagram below). Refer to local codes for any additional requirements.
Locate and install plumbing through ground as required. Assemble fountain to prepared site and mounting pad.
Locate and install plumbing through ground as required.
NOTE: Unit is not furnished with service valve.

Position pedestal over plumbing and secure base to fasteners. Remove access panels and connect supply and water lines. Turn on water supply and check for leaks. Reassemble access panels to pedestal.

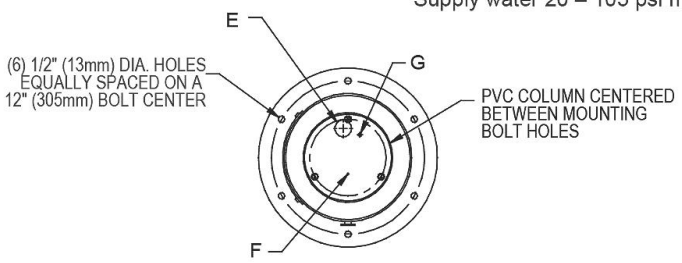
Trap and service stop not included.

SANITARY FREEZE-RESISTANT VALVE GROUND INSTALL DETAIL



LEGEND
A = Access panel (8" X 10")

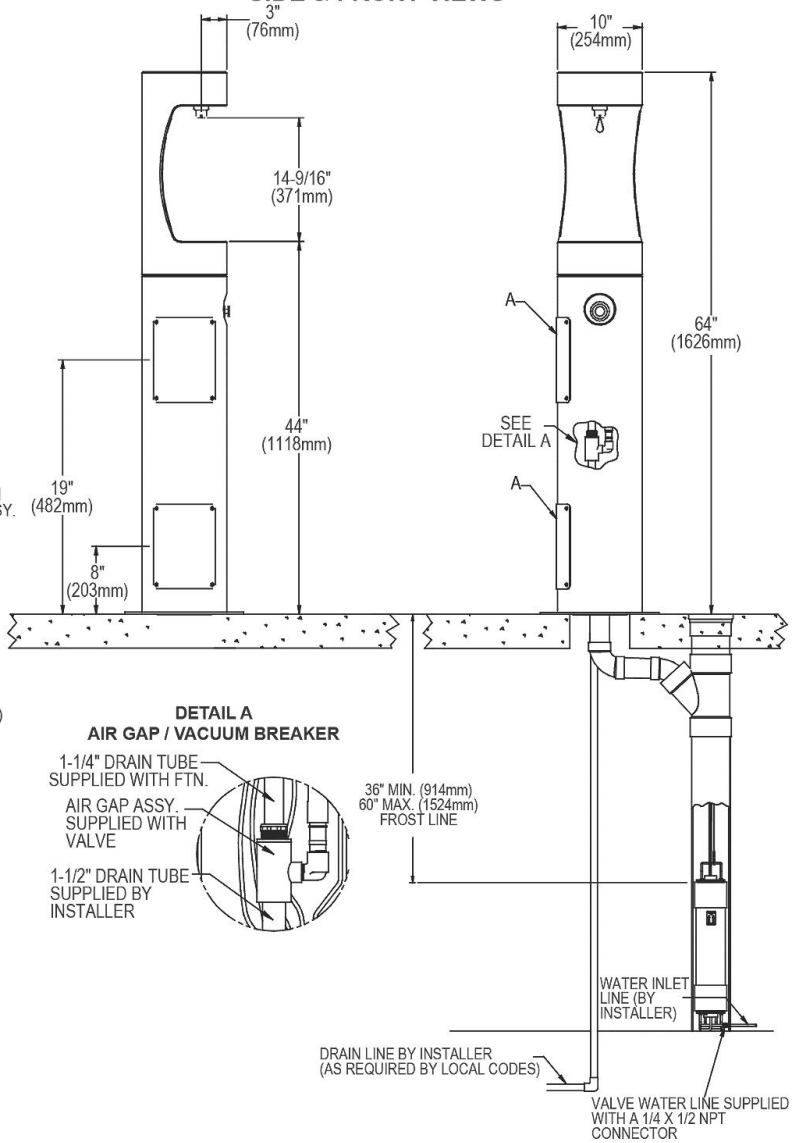
TOP VIEW



OPERATING PRESSURES:

Supply water 20 – 105 psi maximum

SIDE & FRONT VIEWS



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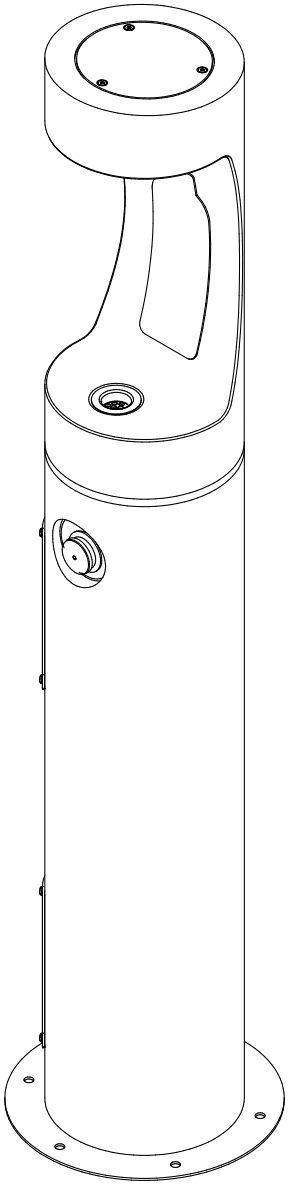
Owners Manual

Model 4400BF

Floor Mount Tubular Bottle Filler Fountain



INSTALLER

4400BF Fountains are among the easiest to install Fountains on the market today. To assure you install these models easily and correctly, PLEASE READ THESE SIMPLE INSTRUCTIONS BEFORE STARTING THE INSTALLATION. CHECK YOUR INSTALLATION FOR COMPLIANCE WITH PLUMBING, ELECTRICAL, AND OTHER APPLICABLE CODES. After installation, leave these instructions with the Fountain for future reference.

INSTALLATION INSTRUCTIONS

IMPORTANT

ALL SERVICE TO BE PERFORMED BY AN AUTHORIZED SERVICE PERSON

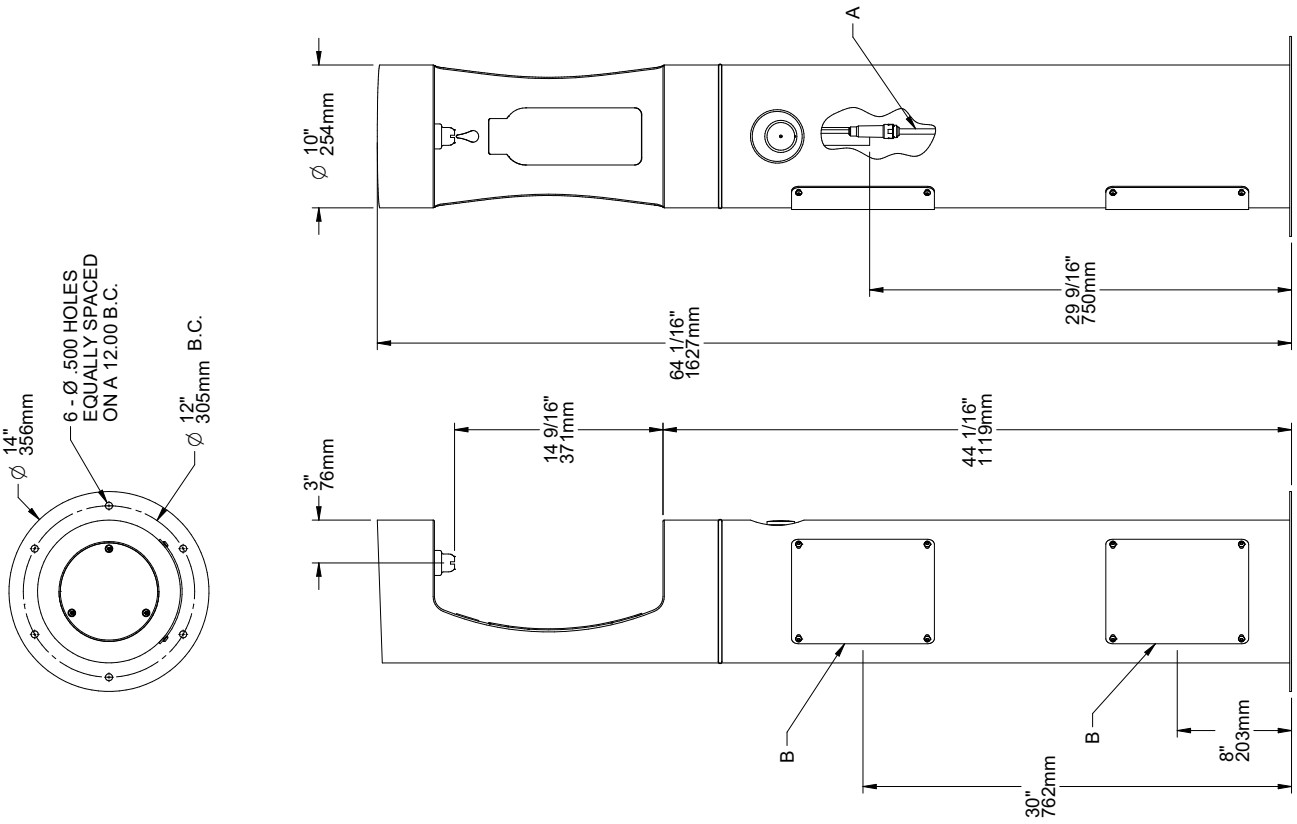
IMPORTANT! INSTALLER PLEASE NOTE.

THE GROUNDING OF ELECTRICAL EQUIPMENT SUCH AS TELEPHONE, COMPUTERS, ETC. TO WATER LINES IS A COMMON PROCEDURE. THIS GROUNDING MAY BE IN THE BUILDING OR MAY OCCUR AWAY FROM THE BUILDING. THIS GROUNDING CAN CAUSE ELECTRICAL FEEDBACK INTO A FOUNTAIN, CREATING AN ELECTROLYSIS WHICH CAUSES A METALLIC TASTE OR AN INCREASE IN THE METAL CONTENT OF THE WATER. THIS CONDITION IS AVOIDABLE BY USING THE PROPER MATERIALS AS INDICATED. ANY DRAIN FITTINGS PROVIDED BY THE INSTALLER SHOULD BE MADE OF PLASTIC TO ELECTRICALLY ISOLATE THE FOUNTAIN FROM THE BUILDING PLUMBING SYSTEM.

1. This fountain is to be mounted on a smooth, flat, finished surface with adequate support structure. NOTE: Mounting structure must be capable of supporting 300 lb. load on fountain.
2. Refer to rough-in for plumbing.
3. Install shut-off valve on water supply. (Valve not furnished)
4. Locate and install fountain using 3/8" minimum fasteners. (Fasteners not furnished).
5. Prior to installing the Bottle Filler to the fountain, insert drain tube (Item # 4) by positioning the short end of drain pipe through the mounting plate of bottle filler. Next, place the aesthetic collar (item # 15) onto the center mounting position of the fountain ensuring the vertical edge of the collar is upright and the curved edge sits below the mounting surface. Mount bottle filler to fountain with collar centered between the two pieces. Secure with supplied hardware.
6. Connect water supply and fountain drain. Water connection and drain must comply with local codes.
7. Turn on water supply and check all connections for leaks.

CAUTION: This fountain is rated for inlet water pressure of 20-105 PSI. A pressure reducing regulator should be used if the inlet water supply exceeds 105 PSI. Any damage caused by reason of connecting this product to supply line

8. Water supply 3/8" O.D. unplated copper tube. Waste 1-1/4" IPS. Contractor to supply waste trap and service stop valve in accordance with local code.
9. Connecting lines to be made of unplated copper and should be thoroughly flushed to remove all foreign matter before being connected to fountain. This fountain is manufactured in such a manner that it does not in any way cause taste, odor, color, or sediment problems.
10. Connect fountain to supply line with a shut-off valve and install a 3/8" unplated copper water line between the valve and the fountain. Remove any burrs from outside of water line. Push the tubes straight into the fittings until they reach a positive stop, approximately 3/4" (See Fig. 2). DO NOT SOLDER TUBES INSERTED INTO THE STRAINER AS DAMAGE TO THE O-RINGS MAY RESULT.



LEGEND
A = 3/8" O.D. UNPLATED COPPER TUBE CONNECT - SHUT OFF VALVE BY OTHERS
B = ACCESS PANEL (8" X 10")

TROUBLESHOOTING AND MAINTENANCE

ACTUATION OF QUICK CONNECT WATER FITTINGS:

Fountain is provided with lead-free connectors which utilize an o-ring water seal. To remove tubing from the fitting, relieve water pressure, push in on the gray collar while pulling on the tubing. (see Fig.2) To insert tubing, push tube straight into fitting until it reaches a positive stop, approximately 3/4".

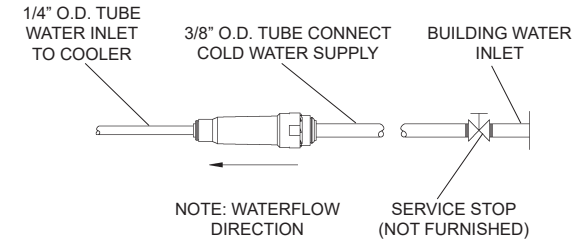


FIG. 1

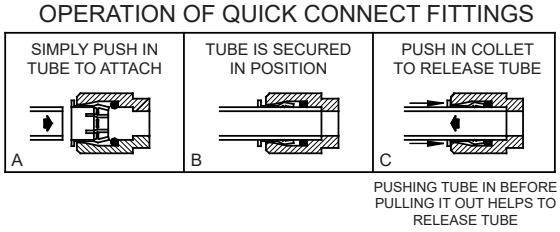
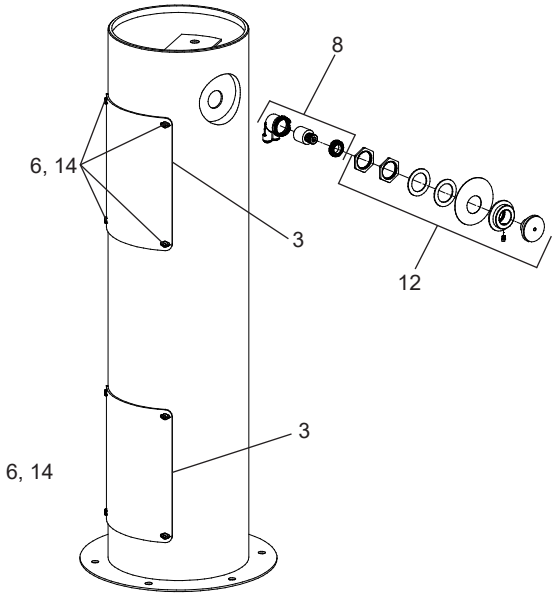
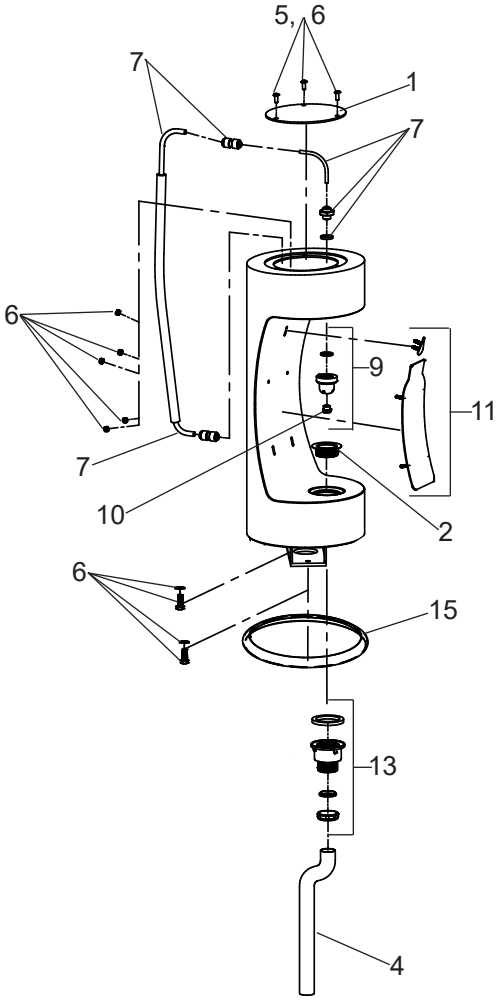


FIG. 2





ITEMIZED PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION
1	1000003814*	Cover - Round Plate
2	45931C	Outdoor Bottle Filler Drain Plug
3	1000003812*	Access Panel
4	66815C	Tube - Drain
5	75724C	Screw - 1/4"x20 x 3/4" LG. Pinned Torx
6	98685C	Kit - Hardware/Bolts/Nuts/Wshrs/Torx Screws
7	98686C	Kit - (BF) Waterway/Nipple/Gasket/Tubes/Ftgs
8	98678C	Kit - 1.0 GPM Regulator (BF Only)
9	98679C	Kit - Nozzle/Aerator/Gasket/Pin/Key
10	98680C	Kit - Aerator/Key
11	98681C	Kit - Blank Bottle Filler Trim
	1000003692	Kit - LK4400BF Bottle Filler Trim
	1000003693	Kit - 4400BF Bottle Filler Trim
12	98682C	Kit - Push Button w/Blank Nameplate
	1000003694	Kit - Push Button w/LK4400BF Nameplate
	1000003695	Kit - Push Button w/4400BF Nameplate
13	98683C	Kit - Drain Adapter/Gasket/Nut/Washer
14	97247C	Kit - VR Torx Screws/Bit
15	1000005456	Aesthetic Collar
NS	55996C	In-Line Strainer

NS = Not Shown
*select color option to complete part number

FINISH COLOR OPTIONS** – ***Choose color option to complete your model number, add as suffix example: 4400BFEVG

Matte finish: ☐ Evergreen = **EVG**

Gloss finish:

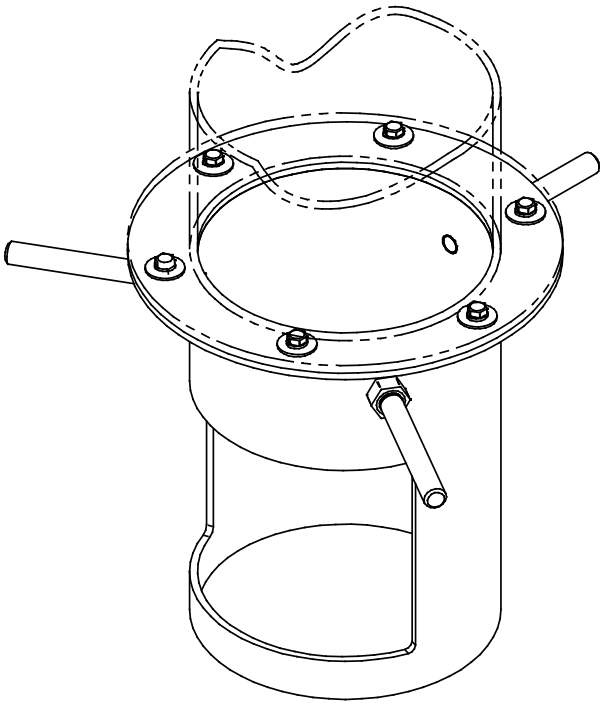
☐ Beige = **BGE**	☐ Gray = **GRY**	☐ Terracotta = **TER**
☐ Black = **BLK**	☐ Orange = **ORN**	☐ White = **WHT**
☐ Blue = **BLU**	☐ Purple = **PUR**	☐ Yellow = **YLW**
☐ Brown = **BRN**	☐ Red = **RED**	

PRINTED IN U.S.A.
Halsey Taylor – halseytaylor.com
Elkay – elkay.com

FOR PARTS CONTACT YOUR LOCAL DISTRIBUTOR OR CALL TECHNICAL SERVICES AT 1.800.834.4816
1333, BUTTERFIELD ROAD, DOWNERS GROVE, ILLINOIS 60515

Installation Sheet

DIRECT BURY FOUNTAIN ADAPTER
For Use On 4400, 4410, 4420, & 4430 Model Fountains



Installer

To assure you install this model easily and correctly, PLEASE READ THESE SIMPLE INSTRUCTIONS BEFORE STARTING THE INSTALLATION. CHECK YOUR INSTALLATION FOR COMPLIANCE WITH PLUMBING, ELECTRICAL AND OTHER APPLICABLE CODES.

IMPORTANT

ALL SERVICE TO BE PERFORMED BY AN AUTHORIZED SERVICE PERSON

IMPORTANT! INSTALLER PLEASE NOTE.

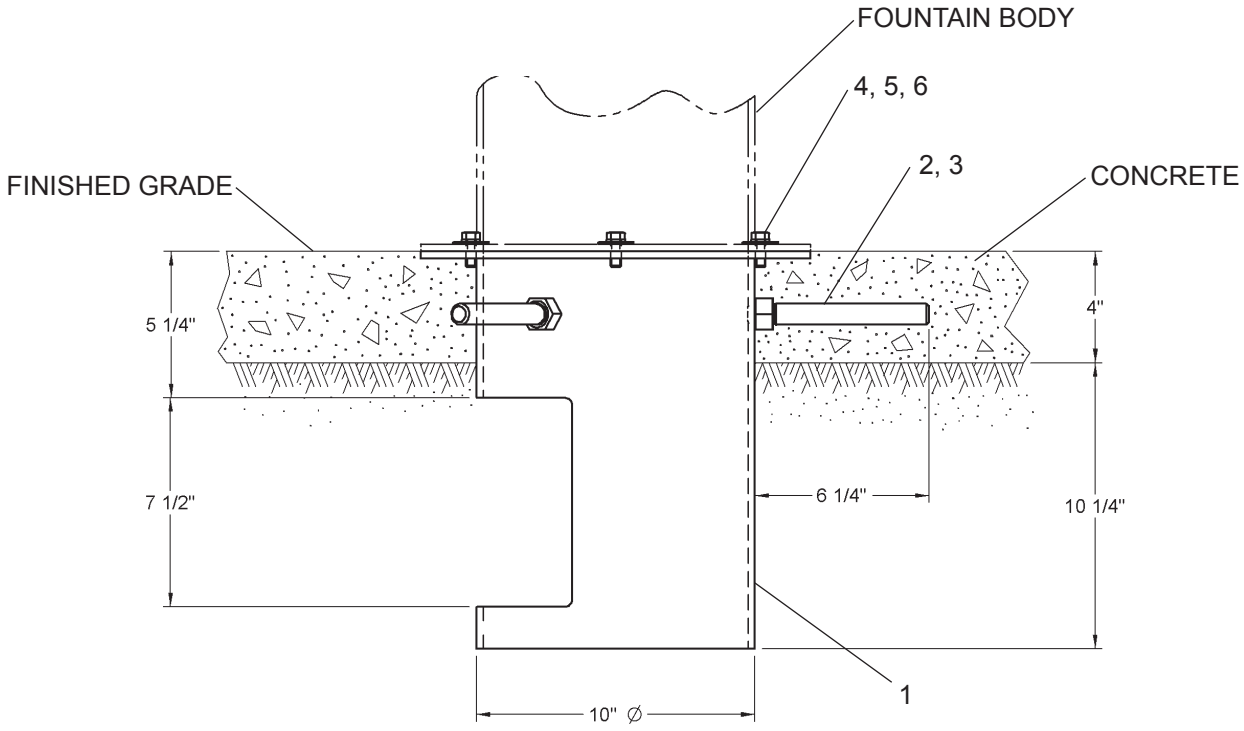
THE GROUNDING OF ELECTRICAL EQUIPMENT SUCH AS TELEPHONE, COMPUTERS, ETC. TO WATER LINES IS A COMMON PROCEDURE. THIS GROUNDING MAY BE IN THE BUILDING OR MAY OCCUR AWAY FROM THE BUILDING. THIS GROUNDING CAN CAUSE ELECTRICAL FEEDBACK INTO A FOUNTAIN, CREATING AN ELECTROLYSIS WHICH CAUSES A METALLIC TASTE OR AN INCREASE IN THE METAL CONTENT OF THE WATER. THIS CONDITION IS AVOIDABLE BY USING THE PROPER MATERIALS AS INDICATED. ANY DRAIN FITTINGS PROVIDED BY THE INSTALLER SHOULD BE MADE OF PLASTIC TO ELECTRICALLY ISOLATE THE FOUNTAIN FROM THE BUILDING PLUMBING SYSTEM.

97864C (Rev. D - 06/16)

PARTS LIST		
ITEM NO.	PART NO.	DESCRIPTION
1	45835C	Adapter - Direct Bury Fountain
2	75617C	ROD -3/4" DIA (UNPAINTED)
3	75616C	Nut - 3/4" - 10UNC-2B Hex.
4	70204C	Bolt - 3/8"-16UNC-2A Hex. Hd.
5	75611C	Washer - 3/8" Lock
6	70421C	Washer - 3/8" Plain

INSTALLATION INSTRUCTIONS

1. Thread nuts (Item 3) onto rods (Item 2) (one nut per rod).
2. Thread rods into adapter cylinder (Item 1) and tighten nuts against cylinder securely.
3. Place washers (Item 6) on bolts (Item 4) (one washer per bolt). Assemble bolts into adapter flange. **Thread bolts all the way in.**
4. Secure adapter into concrete forms as per Standard Practice and as shown below. Be sure to align adapter for proper location of **Water inlet line**, **Drain line**, and required **fountain alignment**.
5. After sufficient cure of concrete, remove flange bolts and washers.
6. Mount fountain assembly per instructions supplied with fountain and Items 4, 5, & 6 (See below).



PRODUCT SPECIFICATIONS

Accessory - Direct Bury Adaptor. Overall dimensions are 14" x 14" x 14-1/4".

Finish:	Evergreen (EVG)
Dimensions:	14" x 14" x 14-1/4"
Shipping Weight:	36 lbs.

Special Note: For use with outdoor tubular fountains and bottle fillers

- Simplifies rough-in and installation for tubular bottle filling and fountain style units.

Included with Product: **Adapter panel, rods and installation hardware**

AMERICAN PRIDE. A LIFETIME TRADITION.
Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

Product Compliance: Buy American Act

Installation Instructions (PDF)

PART:_____QTY: _____

PROJECT:_____

CONTACT:_____

DATE:_____

NOTES:_____

APPROVAL:

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

THE FORD METER BOX COMPANY, INC.
CERTIFIED TO ISO 9001:2015
10004466

Section **FA**

Ford® Plastic Pit Setters

02/15
Web Revision 04/07/21

Contents

Page

Plastic Pits

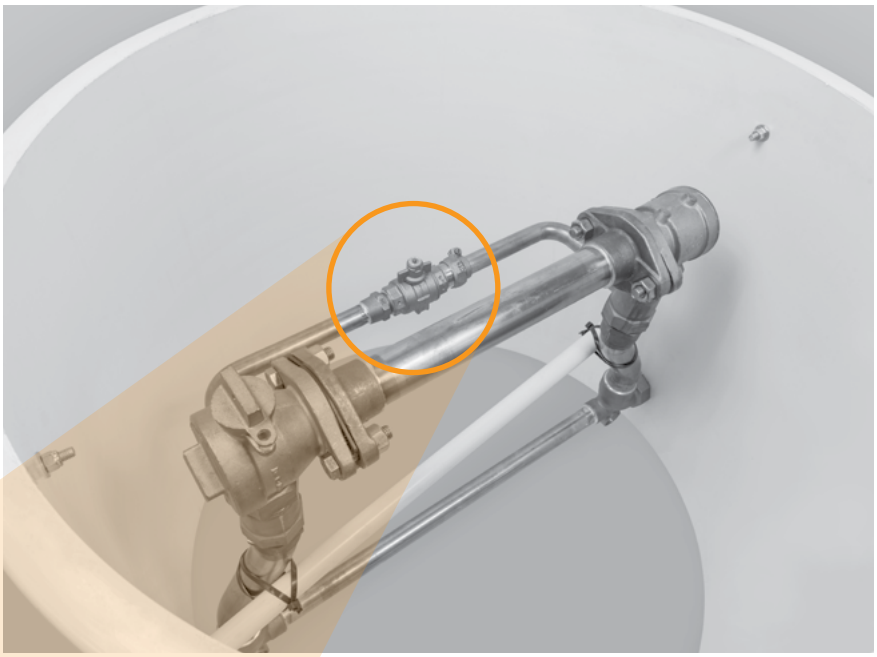
Coil Pits

Locking Valves for Pit Setters

Secura-Lok™ Valves for Pit Setters

(Patent Number 10,794,514)

Whether you choose to lock a pit setter open, closed or operational, secure your decision with Ford Secura-Lok™ locking valves. Available on the inlet, outlet or by-pass valve.



Secura-Lok Options

Part Number Code	Description	Example
SB1	Barrel-style Secura-Lok on inlet valve only	PFCBH-288-15-36-SB1-NL
SB2	Barrel-style Secura-Lok on inlet and outlet valves	PSBB-188-18-48-SB2-NL
SB3	Barrel-style Secura-Lok on inlet, outlet and by-pass valves	PMBB-688-36HB-36-SB3-NL
SB4	Barrel-style Secura-Lok on by-pass valve only	PDVH-788-36HB-42-SB4-NL

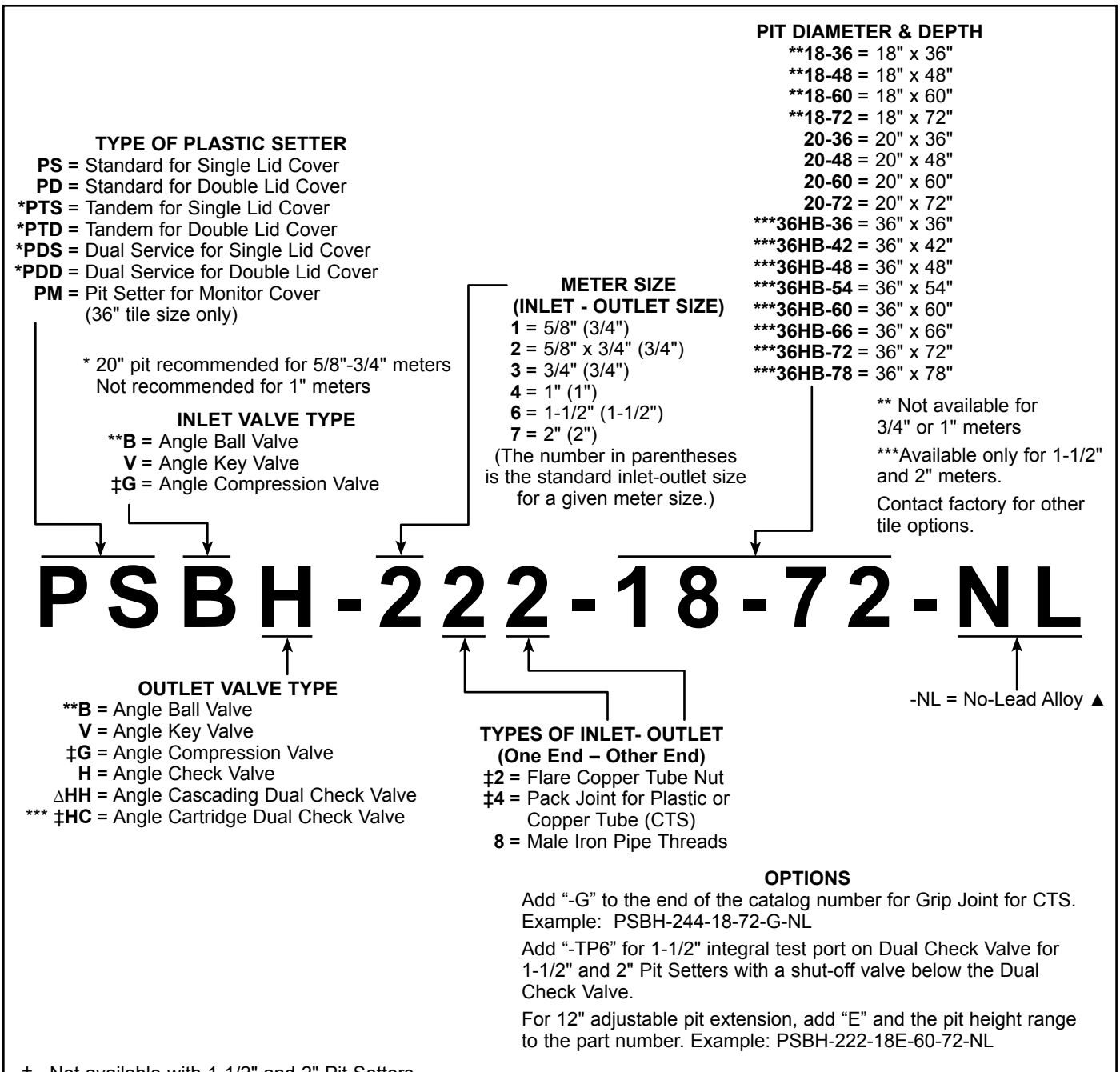
To order Secura-Lok™ valves on Ford Pit Setters, insert the “SB” code into the part number.

Note: Due to the wide variety of pit setter configurations, please contact customer service for a speific part number

Ford Plastic Pit Setter Numbering System

For Copper Riser Plastic Pit Setters.

See page 21 for Coil Pit numbering system.



OPTIONS

Add “-G” to the end of the catalog number for Grip Joint for CTS. Example: PSBH-244-18-72-G-NL

Add “-TP6” for 1-1/2" integral test port on Dual Check Valve for 1-1/2" and 2" Pit Setters with a shut-off valve below the Dual Check Valve.

For 12" adjustable pit extension, add “E” and the pit height range to the part number. Example: PSBH-222-18E-60-72-NL

‡ Not available with 1-1/2" and 2" Pit Setters.

Δ 1" Angle Cascading Check Valve contains 3/4" internal components.

** The 5/8" port angle Ball Valve is a one-way directional valve designed for the inlet of the meter and should not be used as a customer shut-off on the customer side of the meter. 5/8"x3/4", 3/4" & 1" setters with angle ball valves will be reduced port unless otherwise specified. Reduced port valves usually provide suitable water flow. Add “-FP” to the end of catalog number for full port.

*** Cartridges with enhanced chlorine/chloramine resistance are available. Add “CR” to the end of the alpha code. Example: PSBHCCR-344-20-36-NL. Cartridge style dual checks not available with 1-1/2" and 2" Pit Setters.

▲ Ford Meter Box no-lead brass products manufactured from UNS/CDA No. 89833 alloy shall contain no more than 0.25% total lead content by weight. United States federal and state laws allow the use of products manufactured from UNS C83600 85-5-5-5 brass alloy for only non-potable water systems within the United States..

Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.

Introduction

The setting of meters outdoors in covered pits is an idea that dates back to the late 19th century when Edwin Ford, founder of The Ford Meter Box Company, Inc., first utilized this principle to meter the town of Hartford City, Indiana. Mr. Ford's idea has been modified extensively over the intervening years, but the pit setting remains one of the most popular ways of installing meters.

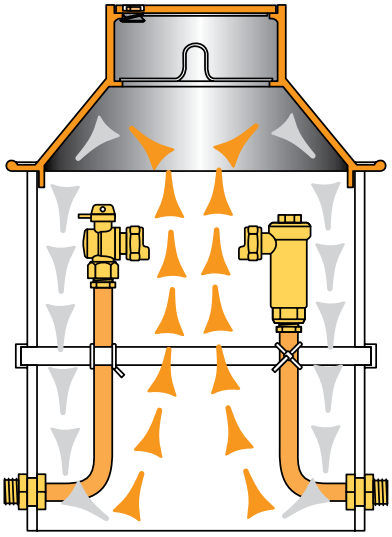
Outdoor meter pit settings offer the utility a number of advantages, including easy access to the meter, protection and control of the meter setting device and a clear division of responsibility for maintaining the utility's and the customer's service line. However, cost considerations have led many utilities to install pit settings that have been less than satisfactory and which become maintenance and freeze-up problems.

Introduced in 1981, the Ford Plastic Pit Setter offers a real cost-saving alternative to the standard "build-your-own" pit setting. Constructed of high-quality 15", 18", 20" or 36" PVC pipe, the Plastic Pit Setter has the service lines attached firmly to the pit walls, with all the valves and meter coupling materials necessary to install the meter as part of the total package. Installation of the Ford Plastic Pit Setter is easy. Simply dig an appropriately sized hole, connect your inlet and outlet piping to the connections at the bottom of the box, place a cover on top, and complete the job of installing a meter.

In the pages that follow, we will describe the principles of a good meter setting device and offer engineering drawings of standard plastic pit type settings. We are not limited to the styles and sizes shown in this catalog section. Our production methods allow us to custom build plastic pit settings for practically any conceivable requirement.

Principles of Meter Pit Design

One of the most important jobs of a meter pit setting in northern climates is to prevent meter and service line freeze-ups during the winter months. Several factors affect freezing in meter pits. These are air temperature, snow cover, type of soil, temperature of the service water, and the frequency of customer water consumption. The theory of pit design is that the depth of the service shall be below that of the lowest frost line and the heat from the base of the meter pit shall circulate and keep the meter setting above it from freezing. If the base of the meter pit is above the frost line, the only thing that would keep the meter from freezing is the continuous use of the service during the winter months.



Not only should meter pits be deep, but they also should be sufficiently wide. Larger diameter pits may allow a greater loss of heat through the pit walls, but that is more than compensated for by the increased amount of warm air generated by warm soil exposed at the base of the pit. Furthermore, the large diameter provides greater clearance between the cold pit walls and the riser pipes. If these pipes are allowed to touch the walls, the pipes will freeze, the flow of water will stop and meter or valve damage will likely result. In the Ford Plastic Pit Setter, the service lines are kept at a minimum of 2" from the pit wall, thus providing important protection.

The top of the pit is equally important. In colder climates, a double lid cover such as our Wabash Cover is desirable, as it provides a dead air space between the top lid and the interior of the pit. This "dead air" acts as an insulator, retaining ground heat and keeping outside cold from entering. The Ford Plastic Pit Setter offers the Wabash Cover as an option. Also available are single lid iron covers or single lid plastic covers for climates that are less severe. Most Ford covers are "hat shaped" (wider at the base than at the top) which exposes as little surface area as possible to the cold outside air. Flat cast iron covers, for mild climates, are also available. See Ford Catalog Section D.

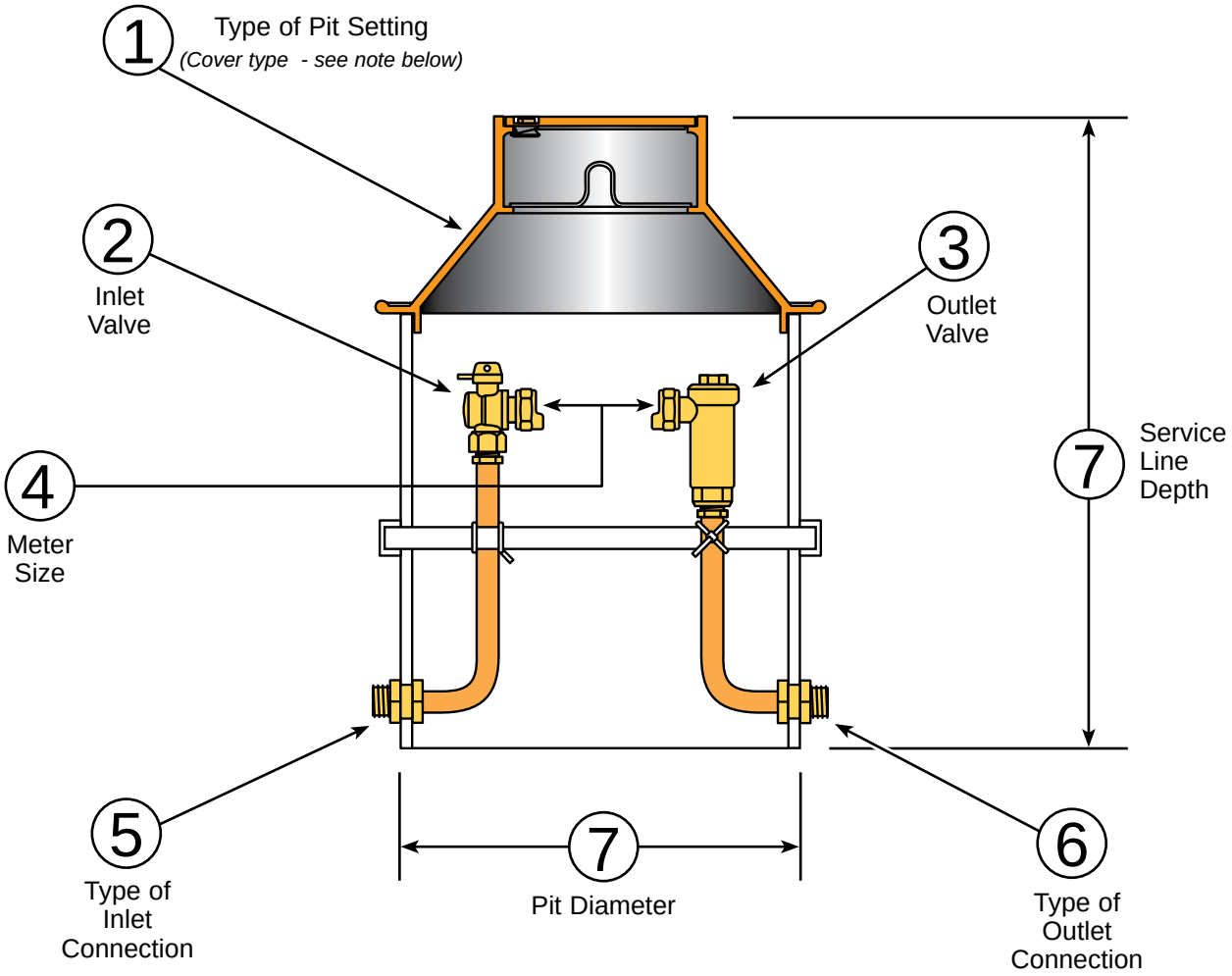
In summary, the basic points of meter pit design provided by Ford Plastic Pit Setters are as follows: (1) Keep the meter pit depth below the deepest frost penetration line; (2) Keep the meter pit diameter sufficiently large to provide a good base of warm soil as well as to prevent pipe from freezing due to "frost jump" from the pit walls; (3) Use a hat shaped meter pit cover, with an inner lid where necessary.

These pit setting principles have been proven in over a century of outdoor pit design. The Ford Plastic Pit Setter is designed around these conservative principles in order that you, the utility customer, will not be faced with the expense of frozen services and unhappy customers. Remember, don't cut corners with pit settings that are too shallow or too small in diameter.

Plastic Pit Setter for Moderate to Cold Climates

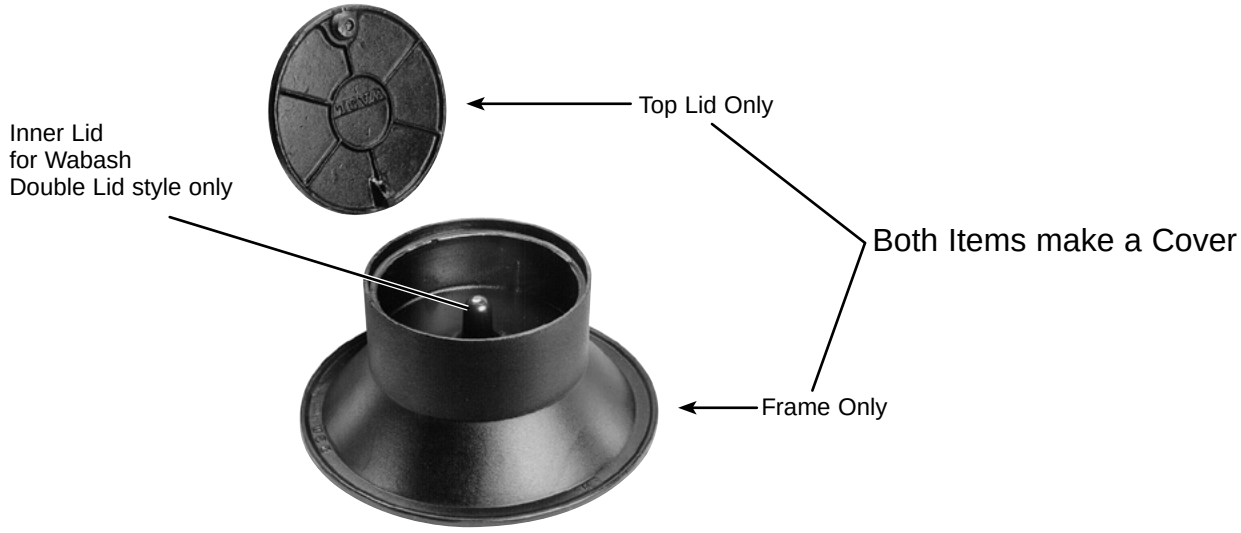
For 5/8", 5/8"x3/4", 3/4" and 1" Meters

How To Order A Plastic Pit Setter



NOTE: A wide variety of 18" and 20" covers can be purchased for Plastic Pit Setters. A complete selection of covers with their specifications and available options are listed in Ford Catalog Section D and must be ordered separately. An abbreviated selection of covers is shown on pages FA-16 and FA-17 of this catalog section.

See pages 10 & 11 for configuration and dimensional information.



Plastic Pit Setter for Moderate to Cold Climates

For 5/8" or 5/8"x3/4" Meters

How To Order A Plastic Pit Setter

1. What type of pit setting is required?

+

2. What type of inlet valve is required?

+

3. What type of outlet valve is required?

+ (Insert dash)

4. What meter size is required?

+

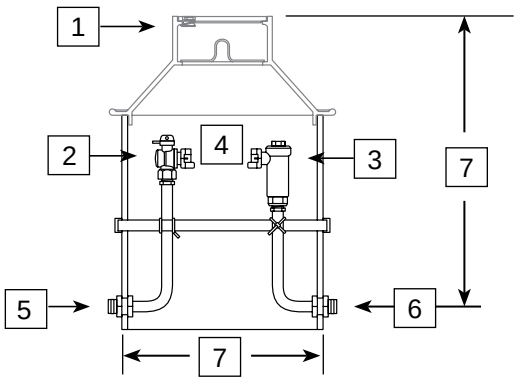
5. What type of inlet connection is required?
(see note below)

+

6. What type of outlet connection is required?
(see note below)

+ (Insert dash)

7. What pit diameter and depth is required?
(Depth is measured from ground level to service line. The service line is 2" higher than bottom of pit setter.)



	Setting Type	Code
	Standard for Single Lid Cover	PS
	Standard for Double Lid Cover	PD
***	Tandem for Single Lid Cover	PTS
***	Tandem for Double Lid Cover	PTD
***	Dual Service Line for Single Lid Cover	PDS
***	Dual Service Line for Double Lid Cover	PDD

	Inlet Valve Type	Code
	Angle Key Valve	V
▼	Angle Ball Valve	B
	Angle Compression Valve	G
	No Inlet Valve	-

	Outlet Valve Type	Code
▼	Angle Ball Valve	B
	Angle Key Valve	V
	Angle Compression Valve	G
	Angle Check Valve	H
	Angle Dual Check Valve	HH
*	Angle Cartridge Dual Check Valve	HC
	No Outlet Valve	-

Meter Size	Code
5/8" Meter	1
5/8" x 3/4" Meter	2

	3/4" Inlet Type	Code
	Flared Copper	2
	PET/CTS Pack Joint	4
♦	Male Iron Pipe	8

3/4" Outlet Type	Code
Flared Copper	2
PET/CTS Pack Joint	4
Male Iron Pipe	8

♦ 1" MIP inlet only on 5/8" x 3/4" Dual Setters

Pit Diameter and Depth	Smooth Wall Tile Code	Corrugated Tile Code
18" x 36"	18-36-NL	18C-36-NL
18" x 48"	18-48-NL	18C-48-NL
18" x 60"	18-60-NL	18C-60-NL
18" x 72"	18-72-NL	18C-72-NL
20" x 36"	20-36-NL	**20C-36-NL
20" x 48"	20-48-NL	**20C-48-NL
20" x 60"	20-60-NL	**20C-60-NL
20" x 72"	20-72-NL	**20C-72-NL

Contact factory for other pit dimensions and types not listed.

Grip Joint for CTS and PEP can be ordered by adding "-G" to the catalog number.

* Cartridges available with enhanced chlorine/chloramine resistance. Add "CR" to the end of the alpha code. Example: PSBCHCR-288-20-36-NL.

** Pitsetters manufactured from 20" corrugated tile require Ford iron covers for 21" ID Tile.

*** 20" pit diameter is recommended for Tandem and Dual Settings.

▼ 5/8"x3/4", 3/4" and 1" setters with angle ball valve will be reduced port unless otherwise requested. Reduced port valves usually provide suitable water flow. (Add "-FP" to the end of the catalog number for full port.) The 5/8" port angle ball valve is a one-way directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter.

HOW TO ORDER A PLASTIC PIT SETTER:
Answer each question to create a catalog number. The catalog codes will build the **Plastic Pit Setter** that meets your setting requirements.

PART NUMBER EXAMPLE:
PSBH-222-18-72-NL = a standard single lid style plastic pit setter with an inlet angle ball valve, outlet angle check valve, 5/8"x3/4" meter, inlet connection for flared copper, outlet connection for flared copper and a pit diameter and depth of 18"x72".

A variety of inlet and outlet couplings for copper, PEP, PVC and lead are available. See catalog section J. Engineering drawings are available for standard and/or custom pit setter designs.

Note: Inlet and outlet connections are 3/4" in size, for 5/8", and 5/8"x3/4" meter settings on 5/8" x 3/4" dual setters, inlet will be 1" with two 3/4" outlets, unless otherwise specified.

Female iron pipe by Pack Joint couplings are available for a variety of inlet/outlet combinations (see catalog section J) and are sold separately.

Covers are sold separately in catalog section D.

Plastic Pit Setter for Moderate to Cold Climates

For 3/4" Meters

See pages 10 and 11 for configuration and dimensional information.

How To Order A Plastic Pit Setter

1. What type of pit setting is required?

+

2. What type of inlet valve is required?

+

3. What type of outlet valve is required?

+ (Insert dash)

4. What meter size is required?

+

5. What type of inlet connection is required?
(see note below)

+

6. What type of outlet connection is required?
(see note below)

+ (Insert dash)

7. What pit diameter and depth is required?
(Depth is measured from ground level to service line. The service line is 2" higher than bottom of pit setter.)

Setting Type	Code
Standard for Single Lid Cover	PS
Standard for Double Lid Cover	PD
Tandem for Single Lid Cover	PTS
Tandem for Double Lid Cover	PTD

Inlet Valve Type	Code
Angle Key Valve	V
▼ Angle Ball Valve	B
Angle Compression Valve	G
No Inlet Valve	-

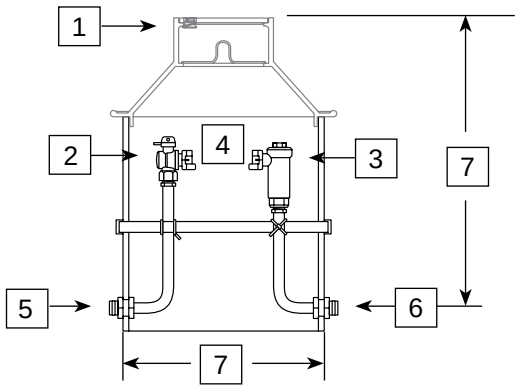
Outlet Valve Type	Code
▼ Angle Ball Valve	B
Angle Key Valve	V
Angle Compression Valve	G
Angle Check Valve	H
Angle Dual Check Valve	HH
* Angle Cartridge Dual Check Valve	HC
No Outlet Valve	-

Meter Size	Code
3/4" Meter	3

3/4" Inlet Type	Code
Flared Copper	2
PET/CTS Pack Joint	4
Male Iron Pipe	8

3/4" Outlet Type	Code
Flared Copper	2
PET/CTS Pack Joint	4
Male Iron Pipe	8

Pit Diameter and Depth	Smooth Wall Tile Code	**Corrugated Tile Code
20" x 36"	20-36-NL	** 20C-36-NL
20" x 48"	20-48-NL	** 20C-48-NL
20" x 60"	20-60-NL	** 20C-60-NL
20" x 72"	20-72-NL	** 20C-72-NL



Contact factory for other pit dimensions and types not listed.

Grip Joint for CTS and PEP can be ordered by adding "-G" to the catalog number.

* Cartridges with enhanced chlorine/chloramine resistance are available. Add "CR" to the end of the alpha code. Example: PSBHCCR-388-20-36-NL.

** Pitsetters manufactured from 20" corrugated tile require Ford iron covers for 21" ID Tile.

▼ 5/8"x3/4", 3/4" and 1" setters with angle ball valve will be reduced port unless otherwise requested. Reduced port valves usually provide suitable water flow. (Add "-FP" to the end of the catalog number for full port.) The 5/8" port angle ball valve is a one-way directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter.

HOW TO ORDER A PLASTIC PIT SETTER:
Answer each question to create a catalog number. The catalog codes will build the **Plastic Pit Setter** that meets your setting requirements.

PART NUMBER EXAMPLE:
PSBH-322-20-72-NL = a standard single lid style plastic pit setter with an inlet angle ball valve, outlet angle check valve, 3/4" meter, inlet connection for flared copper, outlet connection for flared copper and a pit diameter and depth of 20"x72".

Note: Inlet and outlet connections are 3/4" in size, for 3/4" meter settings, unless otherwise specified.
Female iron pipe by Pack Joint couplings are available for a variety of inlet/outlet combinations (see catalog section J) and are sold separately.
Covers are sold separately in catalog section D.

Plastic Pit Setter for Moderate to Cold Climates

For 1" Meters

See pages 10 and 11 for configuration and dimensional information.

How To Order A Plastic Pit Setter

1. What type of pit setting is required?

Setting Type	Code
Standard for Single Lid Cover	PS
Standard for Double Lid Cover	PD

+

2. What type of inlet valve is required?

Inlet Valve Type	Code
Angle Key Valve	V
▼ Angle Ball Valve	B
No Inlet Valve	-

+

3. What type of outlet valve is required?

Outlet Valve Type	Code
▼ Angle Ball Valve	B
Angle Key Valve	V
Angle Check Valve	H
* Angle Cartridge Dual Check Valve	HC
■ Angle Dual Check Valve	HH
No Outlet Valve	-

+ (Insert dash)

4. What meter size is required?

Meter Size	Code
1" Meter	4

+

5. What type of inlet connection is required?
(see note below)

1" Inlet Type	Code
Male Iron Pipe	8

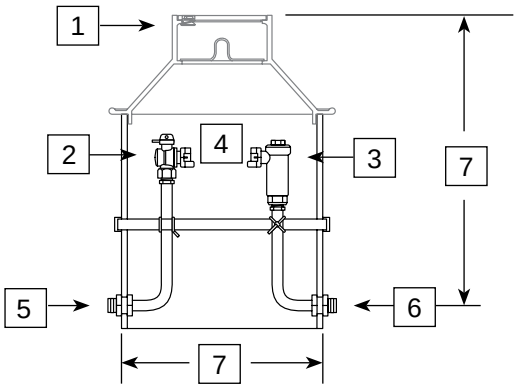
+

6. What type of outlet connection is required?
(see note below)

1 " Outlet Type	Code
Male Iron Pipe	8

+ (Insert dash)

7. What pit diameter and depth is required?
(Depth is measured from ground level to service line. The service line is 2" higher than bottom of pit setter.)



Pit Diameter and Depth	Smooth Wall Tile Code	**Corrugated Tile Code
20" x 36"	20-36-NL	** 20C-36-NL
20" x 48"	20-48-NL	** 20C-48-NL
20" x 60"	20-60-NL	** 20C-60-NL
20" x 72"	20-72-NL	** 20C-72-NL

Contact factory for other pit dimensions and types not listed.

* Cartridges with enhanced chlorine/chloramine resistance are available. Add "CR" to the end of the alpha code. Example: PSBHCCR-488-20-36-NL.

** Pitsetters manufactured from 20" corrugated tile require Ford iron covers for 21" ID Tile.

▼ 5/8"x3/4", 3/4" and 1" setters with angle ball valve will be reduced port unless otherwise requested. Reduced port valves usually provide suitable water flow. (Add "-FP" to the end of the catalog number for full port.) The 5/8" port angle ball valve is a one-way directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter.

■ Angle cascading dual check valves contain 3/4" internal components. This valve meets the ASSE flow requirements of a 1" valve. For a full port valve, order the cartridge style check valve.

HOW TO ORDER A PLASTIC PIT SETTER:
Answer each question to create a catalog number. The catalog codes will build the **Plastic Pit Setter** that meets your setting requirements.

PART NUMBER EXAMPLE:
PSBH-488-20-60-NL = a standard single lid style plastic pit setter with an inlet angle ball valve, outlet angle check valve, 1" meter, inlet connection for male iron pipe, outlet connection for male iron pipe and a pit diameter and depth of 20"x 60".

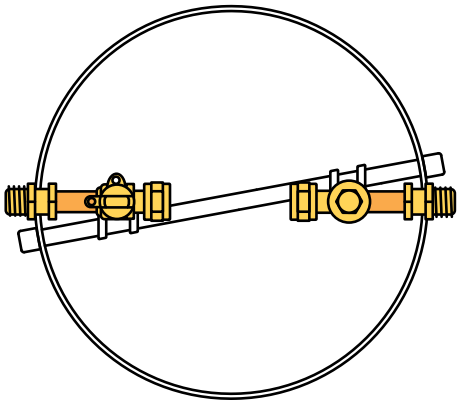
Note: Inlet and outlet connections are 1" in size, for 1" meter settings, unless otherwise specified.
Female iron pipe by Pack Joint couplings are used to provide 1" PET, PEP or PVC inlet/outlet combinations (see catalog section J) and are sold separately.

Covers are sold separately in catalog section D.

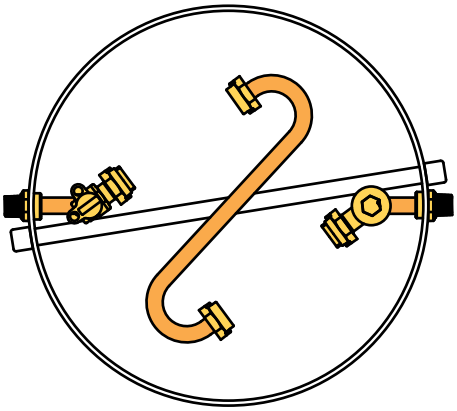
Plastic Pit Setter for Moderate to Cold Climates

For 5/8", 5/8"x3/4", 3/4" and 1" Meters (Configuration and Dimensional Information)

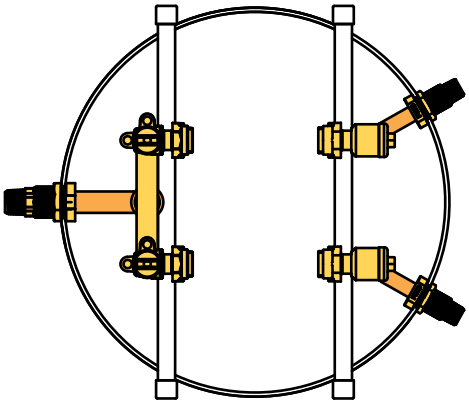
Plastic Pit Setter Design for Single Lid Type *(Cover with a 4" depth)*



Single Meter Setting



Tandem Setting

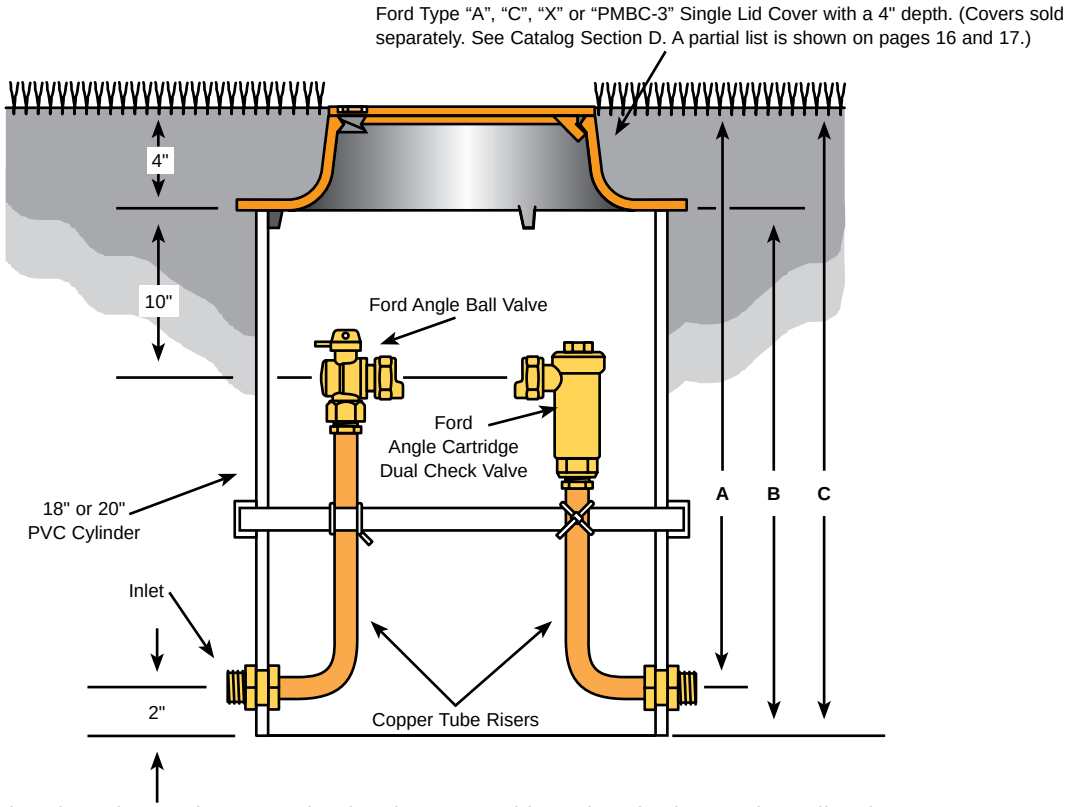


Dual Setting

Vertical Measurements

(Pit Diameter is 18" or 20")

Pit Depth	Service Line Depth "A"	PVC Cylinder Length "B"	Total Pit Depth "C"
3 Ft. Pit	36"	34"	38"
4 Ft. Pit	48"	46"	50"
5 Ft. Pit	60"	58"	62"
6 Ft. Pit	72"	70"	74"

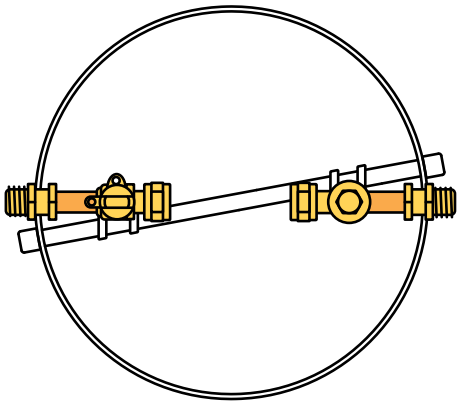


The drawing above shows a Plastic Pit Setter with optional Inlet Angle Ball Valve and Outlet Angle Cartridge Dual Check Valve.

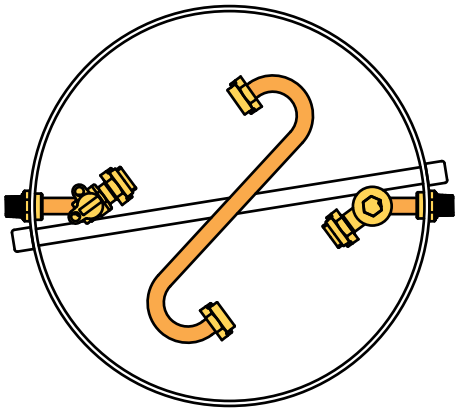
Plastic Pit Setter for Cold Climates

For 5/8", 5/8"x3/4", 3/4" and 1" Meters (Configuration and Dimensional Information)

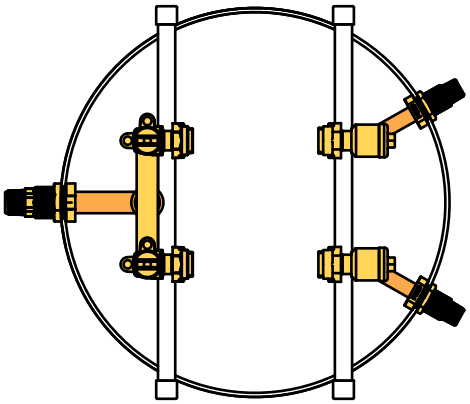
Plastic Pit Setter Design for Double Lid Type *(Cover with a 10" depth)*



Single Meter Setting



Tandem Setting



Dual Setting

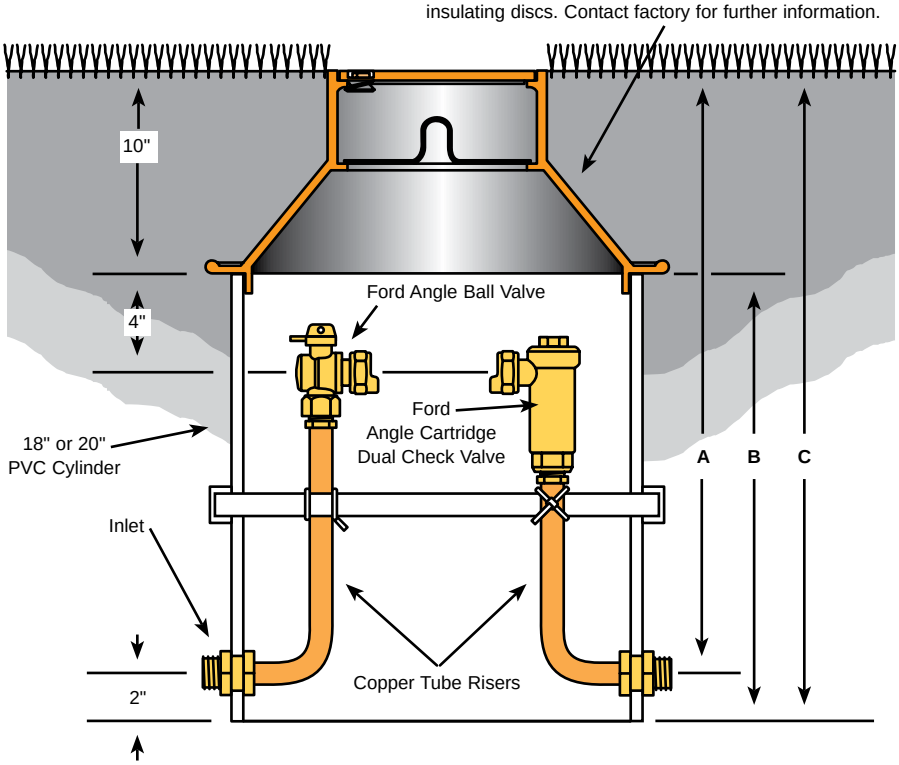
Vertical Measurements

(Pit Diameter is 18" or 20")

Pit Depth	Service Line Depth "A"	PVC Cylinder Length "B"	Total Pit Depth "C"
3 Ft. Pit	36"	28"	38"
4 Ft. Pit	48"	40"	50"
5 Ft. Pit	60"	52"	62"
6 Ft. Pit	72"	64"	74"

Ford Type "W" Wabash Double Lid Cover with a 10" depth. (Covers sold separately. See Catalog Section D. A partial list is shown on pages 16 and 17.)

Special meter depth should be considered when using Double Lid Covers along with insulating discs. Contact factory for further information.

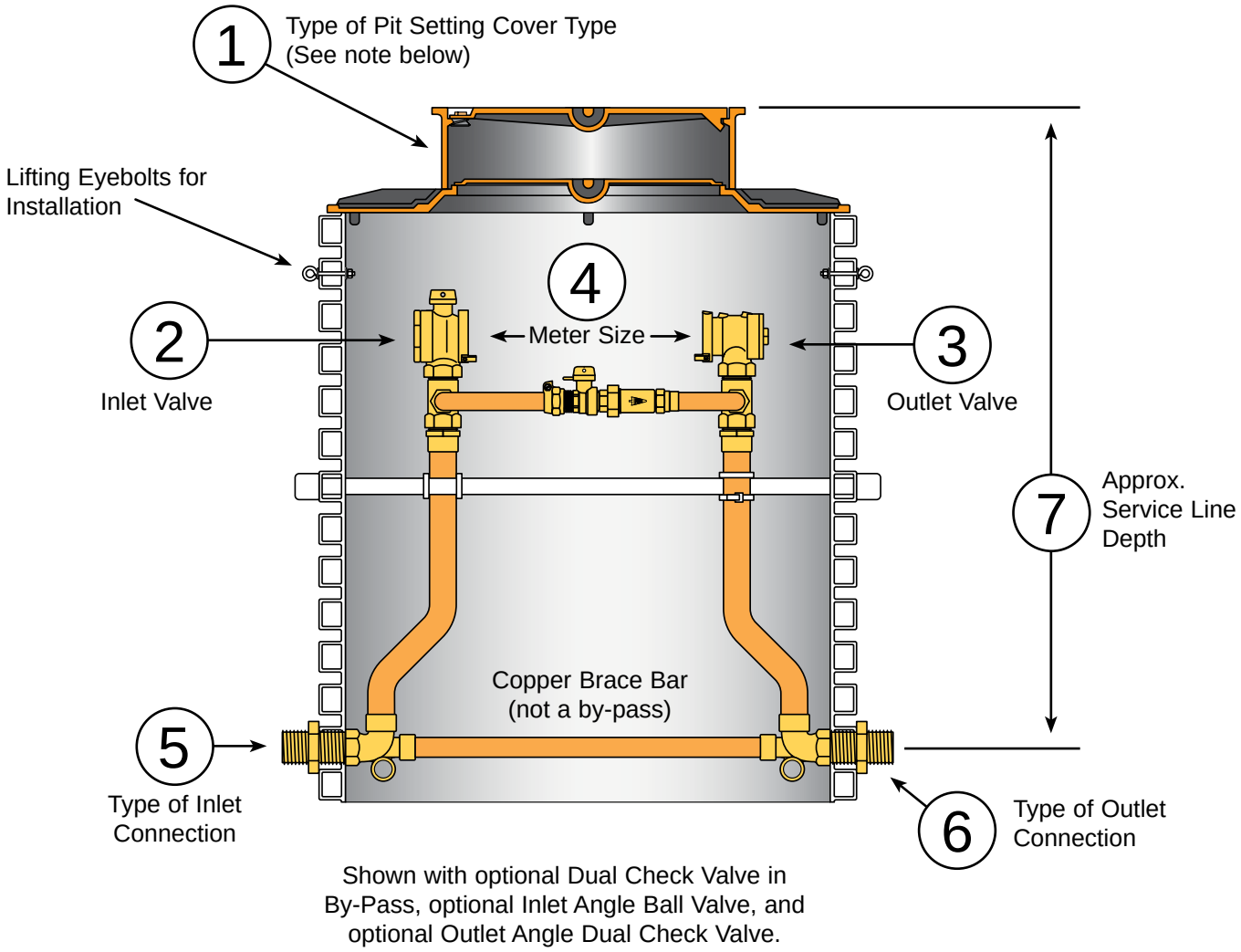


The drawing above shows a Plastic Pit Setter with optional Inlet Angle Ball Valve and Outlet Angle Cartridge Dual Check Valve.

Plastic Pit Setters for 1½" and 2" Meters

For Flanged Meter Settings

See pages 14 & 15 for configuration and dimensional information.



Shown with optional Dual Check Valve in By-Pass, optional Inlet Angle Ball Valve, and optional Outlet Angle Dual Check Valve.

NOTE: A wide variety of covers can be purchased for Plastic Pit Setters. A complete selection of covers with their specifications and available options are listed in Catalog Section D and must be ordered and priced separately. An abbreviated selection of covers is shown on pages FA-16 and FA-17 of this catalog section.

Plastic Pit Setters for 1½" and 2" Meters

For Flanged Meter Settings

1. What type of pit setting is required?

+

2. What type of inlet valve is required?

+

3. What type of outlet valve is required?

+ (Insert dash)

4. What meter size is required?

+

5. What type of inlet connection is required?
(see note below)

+

6. What type of outlet connection is required?
(see note below)

+ (Insert dash)

7. What pit depth is required?
(Depth is measured from ground level to service line.
The service line is 4" higher than bottom of pit setter.)

	Setting Type	Code
	Standard for Monitor Cover	PM
	Standard for Single Lid Cover	PS
	Standard for Double Lid Cover	PD
*	Tandem for Monitor Cover	PTM
*	Tandem for Single Lid Cover	PTS
*	Tandem for Double Lid Cover	PTD

Inlet Valve Type	Code
Angle Key Valve	V
Angle Ball Valve	B

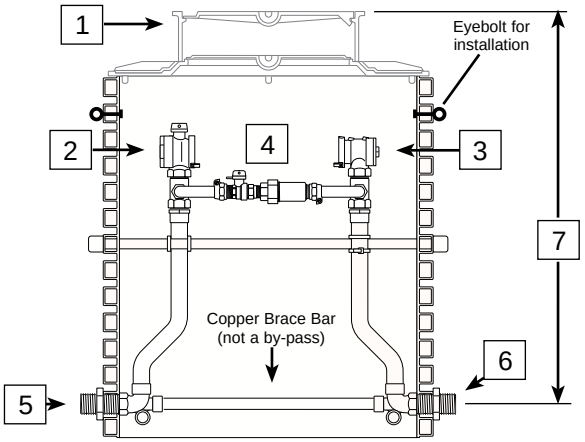
Outlet Valve Type	Code
Angle Ball Valve	B
Angle Key Valve	V
Angle Check Valve	H
Angle Dual Check Valve	HH
No Outlet valve (no by-pass)	-

Meter Size	Code
1-1/2" Meter	6
2" Meter	7

Inlet Type	Code
Male Iron Pipe	8

Outlet Type	Code
Male Iron Pipe	8

	Approx. Pit Diameter and Depth	Code
▲	36" x 36"	36HB-36-NL
	36" x 42"	36HB-42-NL
	36" x 48"	36HB-48-NL
	36" x 54"	36HB-54-NL
	36" x 60"	36HB-60-NL
	36" x 66"	36HB-66-NL
	36" x 72"	36HB-72-NL
	36" x 78"	36HB-78-NL



1-1/2" Pit Setter shown with Optional Dual Check Valve in By-Pass

1-1/2" and 2" Pit Setters are standard with a high by-pass. The by-pass can be deleted by omitting the "HB" from the catalog number. Example: PMBHH-688-36-60-NL.

For optional dual cartridge check valve in by-pass, insert "HC" into the catalog number. Example: PMBHH-688-36HBHC-60-NL.

Optional Test Port for dual check 1-1/2" and 2" pit setters is available. See catalog section F for more information.

HOW TO ORDER A PLASTIC PIT SETTER: Answer each question to create a catalog number. The catalog codes will build the **Plastic Pit Setter** that meets your setting requirements.

PART NUMBER EXAMPLE:
PMBHH-688-36HB-60-NL = a standard monitor cover style plastic pit setter with an inlet angle ball valve, outlet angle dual check valve, 1-1/2" meter, inlet connection for male iron pipe, outlet connection for male iron pipe, high by-pass and a pit diameter and depth of 36"x 60".

* Meter Flange S-Tube is supplied. Provide PRV length and connection type with order. PRV Adapters are sold separately.

▲ 36" depth not available on 2" Tandem Meter Setters with High By-pass.

Note: Inlet and outlet connections are 1-1/2" in size, for 1-1/2" meter settings, 2" for 2" meters.
Meter spacing is 13" for 1-1/2" meters and 17" for 2" meters.
Female iron pipe by Pack Joint couplings are used to provide PET, PEP or PVC inlet/outlet combinations (see catalog section J) and are sold separately.

Extension rings are priced separately in catalog section D.

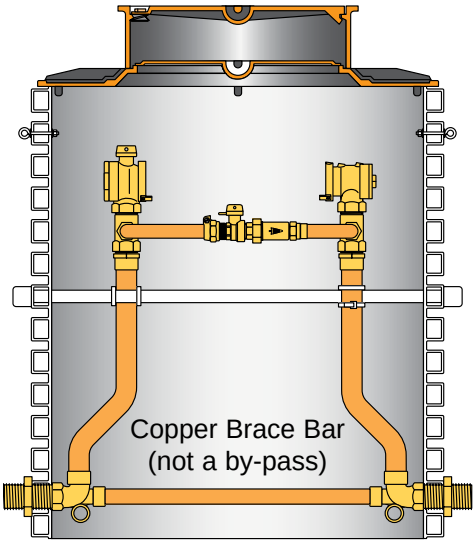
Plastic Pit Setters for 1½" and 2" Meters

For Flanged Meter Settings

The Ford Plastic Pit Setter is extremely popular with water companies due to its lightweight, durable construction, and ease of installation. The Plastic Pit Setter for 1½" and 2" water meters extends this design to large meters. You can set larger meters with the same ease and assurance as smaller meters and receive the same benefits offered by our original Pit Setters.

The Ford Plastic Pit Setter for 1½" and 2" meters features a pit constructed from heavy duty corrugated plastic for lighter weight and extra strength. The 1½" and 2" sizes have male iron pipe threads on the inlet and outlet service line connections. A full range of connecting couplings for various types of pipe and tubing are available. A variety of inlet and outlet valves are also available. The risers are anchored to a sturdy PVC brace pipe to prevent shifting inside the setting. A copper brace bar (not a by-pass) spans the lower structure, supporting the entire Pit Setter and riser assembly, providing superb structural integrity.

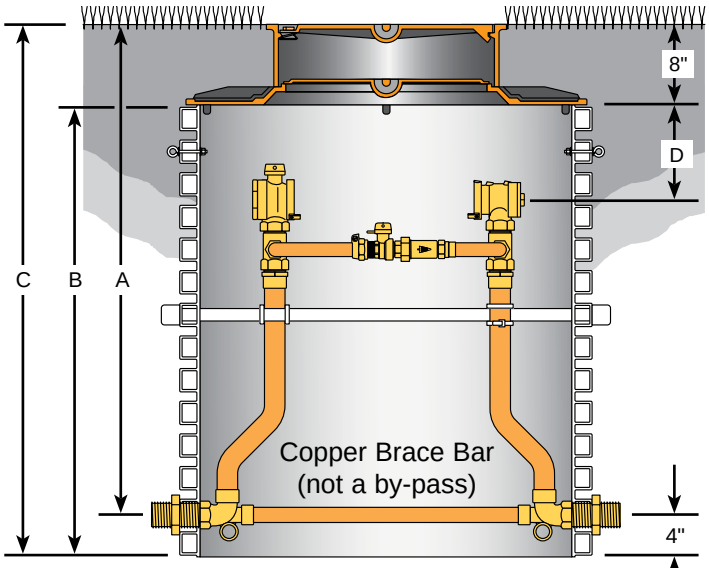
The pit has an open bottom to allow warm air from below the frost line to circulate within the pit setting, preventing freeze-ups. The pit is designed with adequate distance between the side wall and riser to prevent frost jump. *See "Principles of Meter Pit Design" on page FA-5*.



Shown with optional Dual Check Valve in By-Pass, optional Inlet Angle Ball Valve, and optional Outlet Angle Dual Check Valve.

Ford Meter Box offers a special lid with precast holes for a remote electronic meter reading module. This lid is specially configured for this purpose, and it is manufactured so that the electronic meter reading module will seat against a flat surface. *See Catalog Section D for details*.

Monitor Lid Pit Setter - *Monitor Cover Shown* (Configuration and Dimensional Information)



Shown with optional Dual Check Valve in By-Pass, optional Inlet Angle Ball Valve, and optional Outlet Angle Dual Check Valve.

Approximate Vertical Measurements

(Pit Diameter is 36")

Service Line Depth	PVC Cylinder Length	Total Pit Depth	Tile to Centerline Depth
"A"	**"B"**	**"C"**	**"D"**
36"	32"	40"	**8"
42"	38"	46"	12"
48"	44"	52"	12"
54"	50"	58"	12"
60"	56"	64"	12"
66"	62"	70"	12"
72"	68"	76"	12"
78"	74"	82"	12"

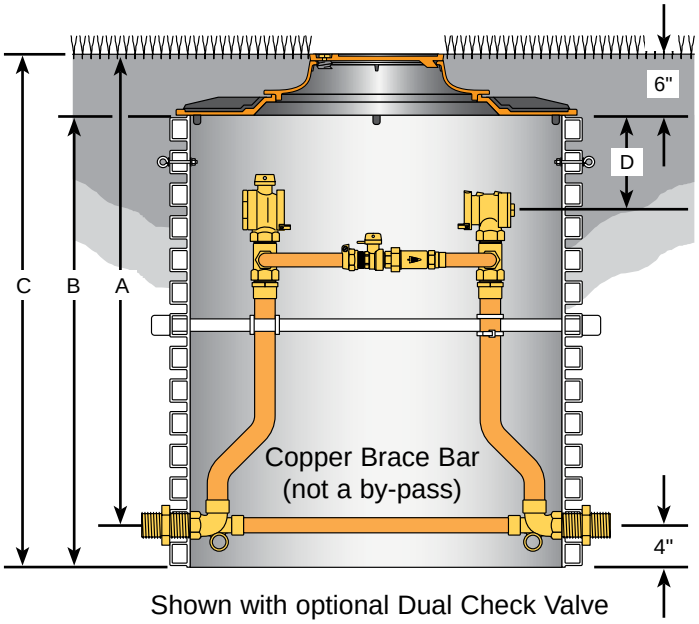
** This dimension is 12" without a high bypass.

Plastic Pit Setters for 1½" and 2" Meters

Configuration and Dimensional Information

For Flanged Meter Settings

Single Lid Pit Setter - *Type C Cover and Extension Ring (EXT-5) Shown*



Shown with optional Dual Check Valve in By-Pass, optional Inlet Angle Ball Valve, and optional Outlet Angle Dual Check Valve.

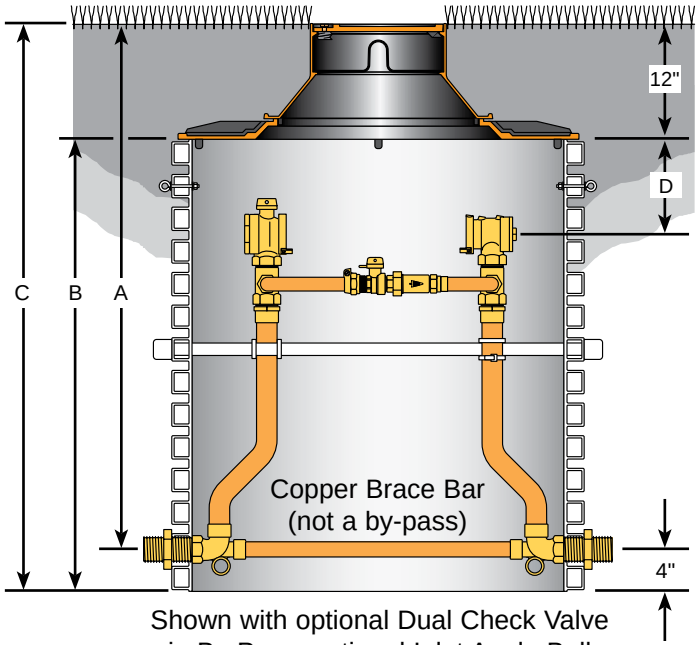
Approximate Vertical Measurements

(Pit Diameter is 36")

Service Line Depth	PVC Cylinder Length	Total Pit Depth	Tile to Centerline Depth
"A"	**"B"**	**"C"**	**"D"**
36"	34"	40"	**10"
42"	40"	46"	14"
48"	46"	52"	14"
54"	52"	58"	14"
60"	58"	64"	14"
66"	64"	70"	14"
72"	70"	76"	14"
78"	76"	82"	14"

** This dimension is 14" without a high bypass.

Double Lid Pit Setter - *Wabash Cover and Extension Ring (EXT-5) Shown*



Shown with optional Dual Check Valve in By-Pass, optional Inlet Angle Ball Valve, and optional Outlet Angle Dual Check Valve.

Approximate Vertical Measurements

(Pit Diameter is 36")

Service Line Depth	PVC Cylinder Length	Total Pit Depth	Tile to Centerline Depth
"A"	**"B"**	**"C"**	**"D"**
36"	28"	40"	**4"
42"	34"	46"	8"
48"	40"	52"	8"
54"	46"	58"	8"
60"	52"	64"	8"
66"	58"	70"	8"
72"	64"	76"	8"
78"	70"	82"	8"

** This dimension is 8" without a high bypass.

How to Order a Cover

A modest selection of popular covers is listed below. For a complete listing of available lids and covers, along with installation instructions and precautions, please refer to **Ford Catalog Section D**.

Covers with a 10" depth and *inset* lids - The Wabash Double Lid Cover

Inset lids provide an installation that is flush with the surface of the sidewalk or lawn. The inner lid provides greater frost protection for meters. These cast iron covers are 10" in depth and include the lifter Worm Lock with a standard Pentagon Bolt unless a larger bolt is specified.

Wabash Double Lid Covers

Catalog Number	Description		Approx. Wt. Lbs.
	Lid Size*	Tile I.D.	
Cover with Locking Lid			
W2	9-1/2"	18"	42.0
*** W32**	11-1/2"	18"	50.0
• * W3	11-1/2"	20"	55.0
Cover with Lockless Lid			
W32-LL	11-1/2"	18"	50.0
• W3-LL	11-1/2"	20"	55.0
Cover with Locking Electronic Meter Read Lid			
W2-T	9-1/2"	18"	42.0
W32-T	11-1/2"	18"	50.0
• W3-T	11-1/2"	20"	55.0
Cover with Locking Double Electronic Meter Read Lid			
W32-TT	11-1/2"	18"	50.0
• W3-TT	11-1/2"	20"	55.0
Extra Heavy Frame and Extra Heavy Locking Lid			
• W3H	11-1/2"	20"	89.0
Extra Heavy Frame and Extra Heavy Locking Electronic Meter Read Lid			
• W3H-T	11-1/2"	20"	89.0

* Plastic lid and optional ERT bracket available. See Catalog Section D for more information.
• Use with EXT-5 (extension ring) for use on 36" tile applications

Covers with a 4" depth and *inset* lids - The Type A Single Lid Cover

Inset lids provide an installation that is flush with the surface of the sidewalk or lawn. These cast iron covers are 4" in depth and include the lifter Worm Lock with a standard Pentagon Bolt unless a larger bolt is specified.

Type A Single Lid Covers

Catalog Number	Description		Approx. Wt. Lbs.
	Lid Size*	Tile I.D.	
Type A Cover with Locking Lid			
A2	9-1/2"	18"	30.0
*** A32**	11-1/2"	18"	32.0
• * A3	11-1/2"	20"	37.0
Type A Cover with Lockless Lid			
A32-LL	11-1/2"	18"	32.0
• A3-LL	11-1/2"	20"	37.0
Type A Cover with Locking Electronic Meter Read Lid			
A2-T	9-1/2"	18"	30.0
A32-T	11-1/2"	18"	32.0
• A3-T	11-1/2"	20"	37.0
Type A Cover with Locking Double Electronic Meter Read Lid			
A32-TT	11-1/2"	18"	32.0
• A3-TT	11-1/2"	20"	37.0
Extra Heavy Frame and Extra Heavy Locking Lid			
• A3H	11-1/2"	20"	54.0
Extra Heavy Frame and Extra Heavy Locking Electronic Meter Read Lid			
• A3H-T	11-1/2"	20"	54.0

* Plastic lid and optional ERT bracket available. See Catalog Section D for more information.
• Use with EXT-5 (extension ring) for use on 36" tile applications

How to Order a Cover

Covers with a 4" depth and *overlapping* lids - The Type C Single Lid Cover

Overlapping style lid is primarily for installation in lawns. Locking lids have a standard pentagon bolt unless a larger size bolt is specified.

Type C Single Lid Covers

Catalog Number	Description		Approx. Wt. Lbs.
	Lid Size*	Tile I.D.	
Cover with Locking Lid			
C12	8"	18"	27.0
* **C32**	11-1/2"	18"	29.0
C52	15"	18"	39.0
• * **C3**	11-1/2"	20"	34.0
Cover with Lockless Lid			
C32-LL	11-1/2"	18"	29.0
• **C3-LL**	11-1/2"	20"	34.0
Cover with Locking Electronic Meter Read Lid			
C12-T	8"	18"	27.0
C32-T	11-1/2"	18"	29.0
C52-T	15"	18"	39.0
• **C3-T**	11-1/2"	20"	34.0
• **C53-T**	15"	20"	47.0
Extra Heavy Frame with Extra Heavy with Locking Lid			
C32H	11-1/2"	18"	46.0
• **C3H**	11-1/2"	20"	52.0

* Plastic lid and optional ERT bracket available. See Catalog Section D for more information.
• Use with EXT-5 (extension ring) for use on 36" tile applications

Cover with a 4" depth and *overlapping* lid - The Ford PMBC-3 Plastic Meter Box Cover

The Ford PMBC-3 plastic meter box cover is an economical alternative to iron covers. Its light weight means reduced shipping costs and easier installation. Constructed of high strength polypropylene, which resists chemical attack and the weakening effect of ultraviolet light, the PMBC-3 fits both 18" and 20" meter pits. As plastic is an excellent insulator, the PMBC-3 provides superior protection against meter pit freeze-ups in all but the harshest climates.

PMBC-3 Plastic Meter Box Cover

Catalog Number	Description		Approx. Wt. Lbs.
	Lid Size*	Tile I.D.	
Locking lid			
♦ **PMBC-3**	11"	18" and 20"	8.0

* Lid size indicates pit access opening; lid diameter is approximately 1" larger.
♦ Optional ERT bracket add "-BR" to catalog number. Example: PMBC-3-BR

Covers for 1-1/2" and 2" Pit Setters - The Ford Monitor Cover

Monitor Covers are designed for use on large tiles where a large lid opening is desired. Each Monitor Cover consists of a flange casting to fit on the tile, a ring, which is centered in place on the flange by a circular bead, and the top lid with a Lifter Worm Lock. An optional plastic inner lid provides added protection against frost damage in cold climates. The Monitor Cover is not designed to withstand traffic, but heavier lids are available for driveway installations where only light traffic is likely.

Monitor Covers

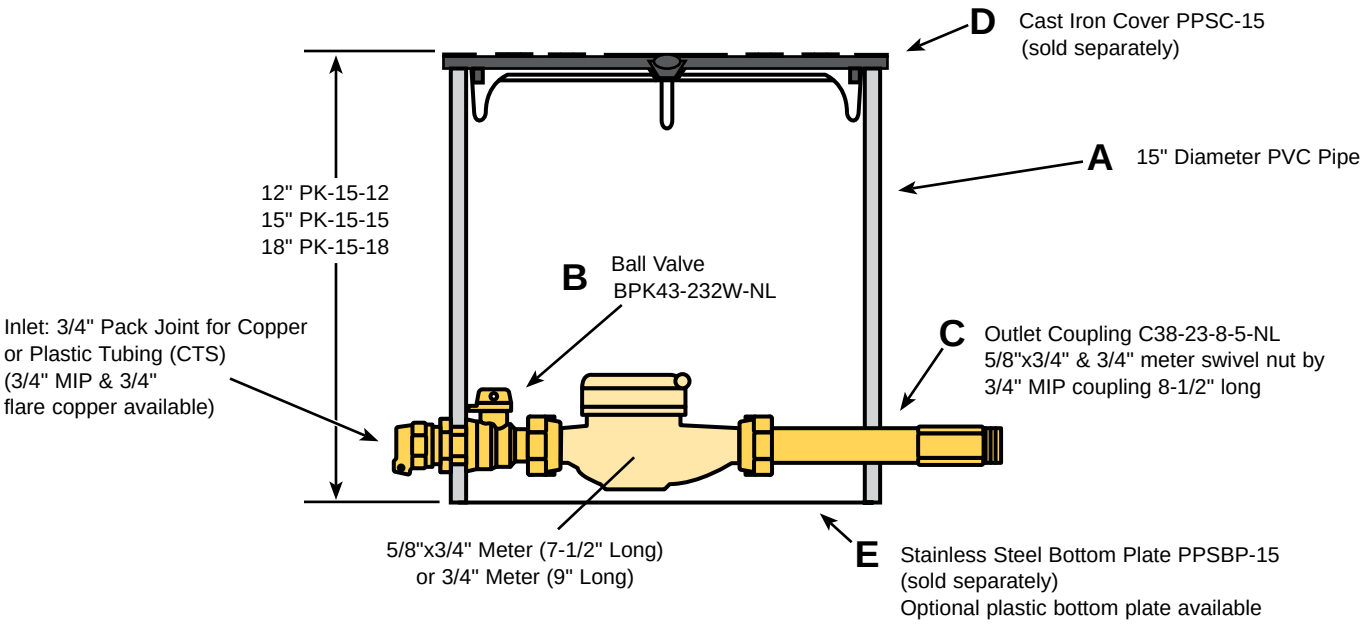
Catalog Number	Description		Approx. Wt. Lbs.
	Lid Size*	Tile I.D.	
Locking Lid			
MC-36	20"	36"	185.0
Lockless Lid			
MC-36-LL	20"	36"	185.0
Locking Lid with Plastic Inner Lid			
MC-36-MB	20"	36"	205.4
Locking Electronic Meter Reading Lid with Plastic Inner Lid			
MC-36-MB-T	20"	36"	205.2

* Lid size indicates pit access opening; lid diameter is approximately 1" larger.

Smaller lids for 20" I.D. tile will fit 1-1/2" and 2" Pit Setters by using an EXT-5 extension ring, which adapts 20" covers to 36" tile.

The Standard 15" Diameter Style “K” Pit Setter

For 5/8"x3/4" and 3/4" Meters



3/4" MALE IRON PIPE INLET
BY 3/4" MALE IRON PIPE OUTLET

Catalog Number	Description	Height
PK288-15-12-NL	Standard Pit Setter (less Lid and Bottom Plate)	12"
PK288-15-15-NL	Standard Pit Setter (less Lid and Bottom Plate)	15"
PK288-15-18-NL	Standard Pit Setter (less Lid and Bottom Plate)	18"

3/4" FLARED COPPER INLET
BY 3/4" MALE IRON PIPE OUTLET

Catalog Number	Description	Height
PK228-15-12-NL	Standard Pit Setter (less Lid and Bottom Plate)	12"
PK228-15-15-NL	Standard Pit Setter (less Lid and Bottom Plate)	15"
PK228-15-18-NL	Standard Pit Setter (less Lid and Bottom Plate)	18"

3/4" FLARED COPPER INLET
BY 3/4" MALE IRON PIPE OUTLET

Catalog Number	Description	Height
PK248-15-12-NL	Standard Pit Setter (less Lid and Bottom Plate)	12"
PK248-15-15-NL	Standard Pit Setter (less Lid and Bottom Plate)	15"
PK248-15-18-NL	Standard Pit Setter (less Lid and Bottom Plate)	18"

NOTE: Cast Iron Cover and Stainless Steel Bottom Plate must be ordered separately.

“K” Pit Setter Components

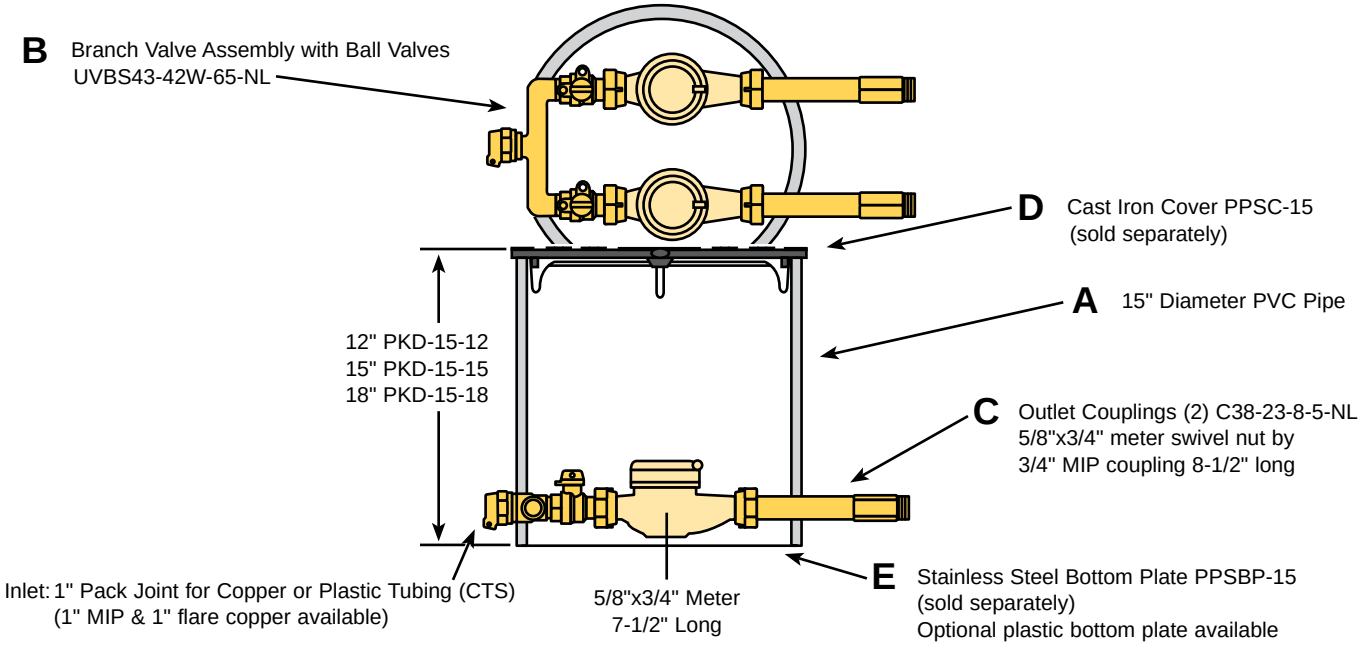
Catalog Number	Component Category	Description
PK-15-12	A	Plastic Pit Only - 12" High
PK-15-15	A	Plastic Pit Only - 15" High
PK-15-18	A	Plastic Pit Only - 18" High
BPK23-232W-NL	B	Ball Valve for 3/4" Flared Copper
BPK43-232W-NL	B	Ball Valve for 3/4" Pack Joint for CTS*
BPK83-232W-NL	B	Ball Valve for 3/4" Male Iron Pipe
C38-23-8-5-NL	C	5/8"x3/4" & 3/4" Meter by MIP Coupling – 8-1/2" Long
PPSC-15	D	One Piece Flat Cast Iron Cover (No Separate Top Lid)
PPSBP-15	E	Stainless Steel Bottom Plate
PPSBP-15-P	E	Plastic Bottom Plate
Add “R” to Catalog Number		360 Degree Turn Ball Valve

Component parts in categories A, B, and C are standard. Components in categories D and E, as well as 360° turning Ball Valves are optional and must be ordered separately.

* **Grip Joint** - for CTS is available. Add “-G” to the Catalog Number.

The 15" Diameter Style “K” Pit Setter

For Dual 5/8"x3/4" Meter Settings



1" MALE IRON PIPE INLET
BY TWO 3/4" MALE IRON PIPE OUTLETS

Catalog Number	Description	Height
PKD288-15-12-NL	Dual Pit Setter (less Lid and Bottom Plate)	12"
PKD288-15-15-NL	Dual Pit Setter (less Lid and Bottom Plate)	15"
PKD288-15-18-NL	Dual Pit Setter (less Lid and Bottom Plate)	18"

1" FLARED COPPER INLET
BY TWO 3/4" MALE IRON PIPE OUTLETS

Catalog Number	Description	Height
PKD228-15-12-NL	Dual Pit Setter (less Lid and Bottom Plate)	12"
PKD228-15-15-NL	Dual Pit Setter (less Lid and Bottom Plate)	15"
PKD228-15-18-NL	Dual Pit Setter (less Lid and Bottom Plate)	18"

1" PACK JOINT FOR COPPER OR PLASTIC TUBING INLET*
BY TWO 3/4" MALE IRON PIPE OUTLETS

Catalog Number	Description	Height
PKD248-15-12-NL	Dual Pit Setter (less Lid and Bottom Plate)	12"
PKD248-15-15-NL	Dual Pit Setter (less Lid and Bottom Plate)	15"
PKD248-15-18-NL	Dual Pit Setter (less Lid and Bottom Plate)	18"

“K” Pit Setter for Dual Meter Setting Components

Catalog Number	Component Category	Description
PKD-15-12	A	Plastic Pit Only - 12" High
PKD-15-15	A	Plastic Pit Only - 15" High
PKD-15-18	A	Plastic Pit Only - 18" High
UVBS23-42W-65-NL	B	Branch Valve Assembly with Ball Valves 1" Flared Copper to 5/8"x3/4" Meter
UVBS43-42W-65-NL	B	Branch Valve Assembly with Ball Valves 1" Pack Joint for CTS* to 5/8"x3/4" Meter
UVBS83-42W-65-NL	B	Branch Valve Assembly with Ball Valves 1" Male Iron Pipe to 5/8"x3/4" Meter
C38-23-8-5-NL	C	5/8"x3/4" Meter by MIP Coupling - 8-1/2" Long
PPSC-15	D	One-Piece Flat Cast Iron Cover (No Separate Top Lid)
PPSBP-15	E	Stainless Steel Bottom Plate
PPSBP-15-P	E	Plastic Bottom Plate
Add “R” to Catalog Number		360 Degree Turn Ball Valve

Component parts in categories A, B, and C are standard. Components in categories D and E, as well as 360° turning Ball Valves are optional and must be ordered separately.

* **Grip Joint** - for CTS is available. Add “-G” to the Catalog Number.

The Ford Coil Pit Setter

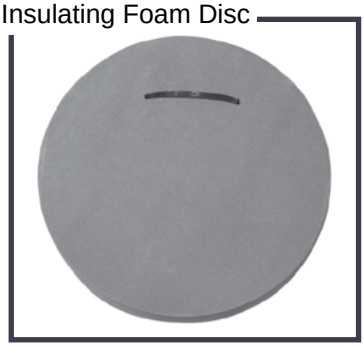
For 5/8", 5/8"x3/4", 3/4" and 1" Meter Settings

Ford Coil Pit Setters and Components are 100% made in the USA

The Ford Meter Box Coil Pit Setter design positions the meter below the frost line and allows the meter to be raised for easy meter access.

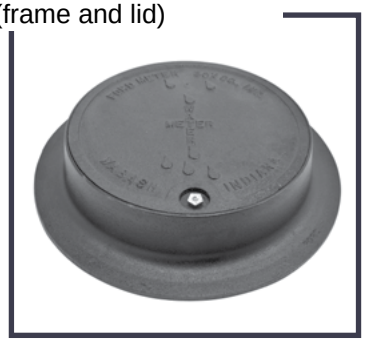
Accessories

Insulating Foam Disc



Cast Iron Flat Lockless Lid

Driveway Cover
(frame and lid)



Insulating disc and lids
sold separately
see page 25 for details

The Ford Coil Pit Setter

For 5/8", 5/8"x3/4", 3/4" and 1" Meter Settings

Ford Coil Pit Setter Numbering System

TYPE OF PLASTIC COIL PIT SETTER
PFC = Standard Single Setting
PDFC = Dual Setting (5/8"x3/4", 18" tile only)
PTFC = Tandem Setting

INLET VALVE TYPE
V = Angle Key Valve
*B = Angle Ball Valve

METER SIZE (INLET - OUTLET SIZE)
1 = 5/8" (3/4")
2 = 5/8" x 3/4" (3/4")
3 = 3/4" (3/4")
4 = 1" (1")
(The number in the parentheses is the standard inlet-outlet size for a given meter size.)

DEPTH
36"
42"
48"
54"
60"
66"
72"
78"
84"
90"
96"

Optional 1" Tubing and MIP Service Connections for 5/8", 5/8" x 3/4" and 3/4" Setters - NOT AVAILABLE on 15" tiles or dual settings

-NL = No-Lead Alloy ▲

PFCBHH-288-15-72A-FP-NL

OUTLET VALVE TYPE
V = Angle Key Valve
* B = Angle Ball Valve
H = Angle Check Valve
△ HH = Angle Cascading Dual Check Valve
** HC = Angle Cartridge Dual Check Valve (on 1" only)
L = ELL (No Valve)

TYPE OF INLET - OUTLET
8 = Male Iron Pipe Threads

TILE DIAMETER
15 = 15"
18 = 18"

FULL PORT BALL VALVE

OPTION

For 12" adjustable pit extension, add "E" and the pit height range to the part number. Example: PFCBHH-288-18E-60-72-NL

* The 5/8" Port Angle Ball Valve is a one-way directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter. 5/8"x3/4", 3/4" & 1" setters with angle ball valves will be reduced port unless otherwise specified. Reduced port valves usually provide suitable water flow. Add "-FP" to end of catalog number for full port.

△ 1" Angle Cascading Dual Check Valve contains 3/4" internal components. This valve meets the ASSE flow requirements of a 1" valve. For a full port valve, order the cartridge style check valve.

** 3/4" and 1" cartridges with an enhanced chlorine/chloramine resistance are available. Insert "CR" at the end of the alpha code. Example: PFCBHCCR-488-18-60-NL.

If PRV lengths are outside of range (see chart on page 22) or have connections other than FNPT, contact factory for price and availability.

▲ Ford Meter Box no-lead brass products manufactured from UNS/CDA No. 89833 alloy shall contain no more than 0.25% total lead content by weight. United States federal and state laws allow the use of products manufactured from UNS C83600 85-5-5-5 brass alloy for only non-potable water systems within the United States.

Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.

STANDARD SPECIFICATIONS	15" Diameter PVC Tile (.300" Thick)	18" Diameter PVC Tile (.360" Thick)
SETTING TYPE		
5/8" Single Setting	X	X
5/8" Tandem Setting	X	X
5/8" Dual Setting		X
5/8" x 3/4" Single Setting	X	X
5/8" x 3/4" Tandem Setting	X	X
5/8" x 3/4" Dual Setting		X
3/4" Single Setting		X
3/4" Tandem Setting		X
3/4" Dual Setting		X
*1" Single Setting		X
*1" Tandem Setting		X
INLET AND OUTLET SERVICE LINE CONNECTIONS		
3/4" Coil Tubing with 3/4" MIP	X	X
1" Coil Tubing with 1" MIP **inlet** with 3/4" MIP **outlets** & 3/4" tubing (Dual Pits Only)		X
1" Coil Tubing with 1" MIP (Standard on 1" Setters. Add "A" to all other meter sizes)		X
COIL TUBING (HDPE 3408) ASTM D2737 200 PSI		
3/4" Tubing	X	X
1" Tubing	X	X
ADJUSTABLE METER PLATFORM PLATE		
All settings	X	X
SUPPORT BRACKETS		
All settings	X	X
INSULATION DISC		
1-1/2" - 6" thickness	X	X
CAST IRON LID		
Locking	X	X
Lockless	X	X
Cast Iron Covers (Standard iron lid will not fit frame)	X	X
COIL PIT SETTER HEIGHT		
36" up to 96"	X	X

*1" Angle Cascading Dual Check Valve contains 3/4" components.

The Ford Coil Pit Setter

For 5/8", 5/8"x3/4" and 3/4" Meter Settings

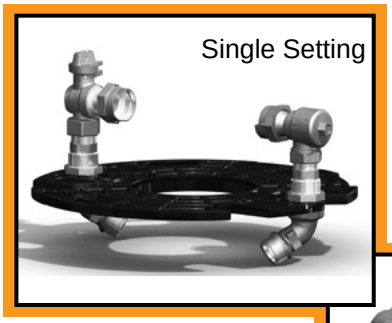
15" Diameter Coil Pit Setter with Single or Tandem Settings for 5/8", or 5/8" x 3/4" Meters	
Setting Type	**Code**
Standard Coil Pit Setter (flat lid ordered separately)	PFC
Tandem Coil Pit Setter (flat lid ordered separately)	PTFC
Inlet Valve Type	
Angle Key Valve	V
Angle Ball Valve (reduced port)	B
* Full Port Angle Ball Valve (see page 23)	♦ B (-FP-R)
Outlet Valve Type	
Angle Key Valve	V
Angle Ball Valve (reduced port) (see page 23)	■ ♦ B
* Full Port Angle Ball Valve (see page 23)	♦ B (-FP-R)
Angle Check Valve	H
Cascading Angle Dual Check Valve (ASSE)	HH
Ell (no valve)	L
Meter Size	
5/8"	1
5/8" x 3/4"	2
Type of Inlet/Outlet Service Connection	
3/4" MIP x 3/4" MIP with 3/4" tubing	88
Pit Diameter and Depth	
15" x 36"	15-36-NL
15" x 42"	15-42-NL
15" x 48"	15-48-NL
15" x 54"	15-54-NL
15" x 60"	15-60-NL
15" x 66"	15-66-NL
15" x 72"	15-72-NL
15" x 78"	15-78-NL
15" x 84"	15-84-NL
15" x 90"	15-90-NL
15" x 96"	15-96-NL

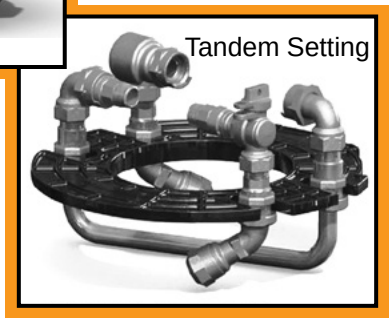
Example: PFCBHH-288-15-54-NL

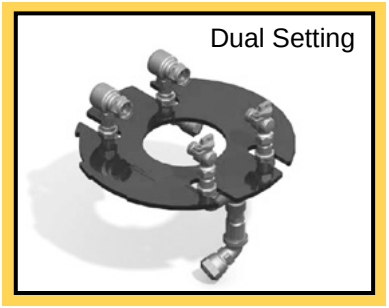
Note: Regulator adapters are furnished with all standard tandem coil pits. For PRV lengths with end connections other than FNPT or lengths outside of range, see chart below. Contact factory for price and availability.

Coil Pit setters with a ball valve inlet and a ball valve outlet are not recommended on 15" tile; using an 18" tile is advised. The 5/8" port angle ball valve should not be used as a customer shut-off on the customer side of the meter.

*5/8"x3/4" setters with angle ball valves will be reduced port unless otherwise requested. Reduced port valves usually provide suitable water flow. Add "-FP-R" to the catalog number for full port. Full port ball valves shall have a 360° tee-head rotation. Example: PFCBH-288-15-48-FP-R-NL







18" Diameter Coil Pit Setter with Dual Settings for 5/8", 5/8" x 3/4" or 3/4" Meters	
Setting Type	**Code**
Dual Setting (flat lid ordered separately)	PDFC
Inlet Valve Type	
Angle Key Valve	V
Angle Ball Valve (reduced port)	♦ B
** Full Port Angle Ball Valve (see page 23)	♦ B (-FP)
Outlet Valve Type	
Angle Key Valve	V
Angle Ball Valve (reduced port) (see page 23)	■ ♦ B
** Full Port Angle Ball Valve (see page 23)	♦ B (-FP)
Angle Check Valve	H
Cascading Angle Dual Check Valve (ASSE)	HH
Ell (no valve)	L
Meter Size	
5/8"	1
5/8" x 3/4"	2
** 3/4"	3
Type of Inlet/Outlet Service Connection	
1" MIP Inlet/Tubing x (2) 3/4" MIP Outlet/Tubing	88
Pit Diameter and Depth	
18" x 42"	18-42-NL
18" x 48"	18-48-NL
18" x 54"	18-54-NL
18" x 60"	18-60-NL
18" x 66"	18-66-NL
18" x 72"	18-72-NL
18" x 78"	18-78-NL
18" x 84"	18-84-NL
18" x 90"	18-90-NL
18" x 96"	18-96-NL

Example: PDFCBHH-288-18-48-NL

** Full port ball valves for 3/4" dual setters shall have a 360° rotation. Example: PDFCBHH-388-18-42-FP-R-NL

Custom Coil Pit Setters are available, contact factory.

Tandem Coil Pitsetter PRV Length Range		
Tile Size and Meter Settings	**Min**	**Max***
5/8" Meter Setting		
15" Tile	4-1/4"	5-1/4"
15" Tile w/Full port ball valve	3-1/2"	4-1/2"
5/8" x 3/4" Meter Setting		
15" Tile	4"	4-3/4"
15" Tile w/Full port ball valve	3-3/8"	4-1/8"
18" Tile	4-1/2"	5-3/4"
18" Tile w/Full port ball valve	3-7/8"	4-7/8"
3/4" Meter Settings		
18" Tile	4-5/8"	6-5/8"
18" Tile w/Full port ball valve	4-1/8"	6-1/8"
1" Meter Settings		
18" Tile	4"	4-1/4"
18" Tile w/Full port ball valve	3-1/2"	3-3/4"

PRV lengths with connections other than FNPT or lengths outside of the range; please contact factory for price and availability.

***** Max length may differ on pitsetters with a Secura-Lok valve.

The Ford Coil Pit Setter

For 5/8", 5/8"x3/4", 3/4"and 1" Meter Settings

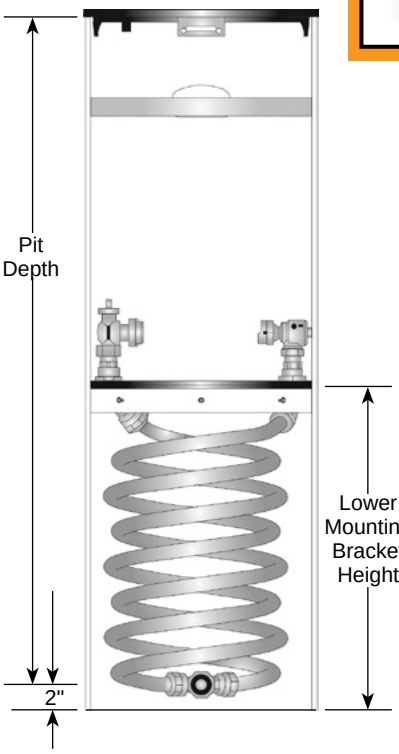
18" Diameter Coil Pit Setter with Single or Tandem Settings for 5/8", 5/8" x 3/4", 3/4" or 1" Meters	
Setting Type	**Code**
Standard Coil Pit Setter (single) (flat lid ordered separately)	PFC
Tandem Coil Pit Setter (flat lid ordered separately)	PTFC
Inlet Valve Type	
Angle Key Valve	V
Angle Ball Valve (reduced port)	B
* Full Port Angle Ball Valve (see ♦ below)	♦ B (-FP)
Outlet Valve Type	
Angle Key Valve	V
Angle Ball Valve (reduced port)	■ B
* Full Port Angle Ball Valve (see ♦ below)	♦ B (-FP)
Angle Check Valve	H
Cascading Angle Dual Check Valve (ASSE)	***HH (see below)
1" Cartridge Angle Dual Check Valve (ASSE)	HC
With enhanced chlorine/chloramine resistant cartridges	HCCR
Ell (no valve)	L
Meter Size	
5/8"	1
5/8" x 3/4"	2
3/4"	3
**1"	4
Type of Inlet/Outlet Service Connection	
3/4" MIP x 3/4" MIP (for 5/8", 5/8"x3/4", and 3/4" meter settings) with 3/4" tubing	▲88
1" MIP x 1" MIP (for 1" meter settings) with 1" tubing	88
Pit Diameter and Depth	
18" x 36"	18-36-NL
18" x 42"	18-42-NL
18" x 48"	18-48-NL
18" x 54"	18-54-NL
18" x 60"	18-60-NL
18" x 66"	18-66-NL
18" x 72"	18-72-NL
18" x 78"	18-78-NL
18" x 84"	18-84-NL
18" x 90"	18-90-NL
18" x 96"	18-96-NL

Example: PTFCVHH-488-18-60-NL

*5/8"x3/4", 3/4" & 1" setters with angle ball valves will be reduced port unless otherwise requested. Reduced port valves usually provide suitable water flow. Add “-FP” to the catalog number for full port. Add “-FP-R” where a 360° tee-head rotation is required.

1" Full Port Single Setting

Tandem Setting



Pit Depth	Lower Mounting Bracket Height
36"	14"
42"	20"
48"	26"
54"	26"
60"	26"
66"	26"
72"	26"
78"	26"
84"	26"
90"	26"
96"	26"

Note: Regulator adapters furnished with all standard tandem coil pits. For PRV lengths with end connections other than FNPT or lengths outside range, see chart on page FA-22 and contact factory.

**** All Coil Pit Setters for 1" meters must have a 360° tee-head rotation (-R) Example: PTFCBH-488-18-36-R-NL, except for single coil pits with full port ball valves. Example: PFCBH-488-18-36-FP-NL**

	Optional if required	**Code**
♦	**Optional Full Port Ball Valve** 5/8"x3/4", 3/4" & 1" setters with angle ball valves will be reduced port unless otherwise requested. Reduced port valves usually provide suitable water flow. (Add “FP” to the catalog number for full port.) Example: PFCBHH-288-15-48-FP-NL. Add “FP-R” where 360° rotation is required. Example PFCBH-488-18-36-FP-R-NL	**-FP** **-FP-R**
▲	Optional 1" tubing and service line connections are available. Add “A” to the end of the catalog number. Example: PFCBH-288-18-36A-NL. (1" tubing and connections are standard on 1" meters) NOT AVAILABLE on 15" tile or dual settings	**A**
■	The 5/8" Port Angle Ball Valve is a one-way directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter.	
***	Angle Cascading Dual Check Valves contain 3/4" internal components. This valve meets the ASSE flow requirements of a 1" valve. For a full port valve, order the cartridge style check valve.	
	Optional Covers, Insulating Disc, Frames and Lids: (Order separately) see page 25.	

The Ford Coil Pit Setter

Features

HOUSING:

- SDR 51 PVC PIP tile, per ASTM D2241
- Lightweight to provide easy installation
- Heights range from 36" to 96"
- Bottom is open to allow ground heat from below the frost line to circulate in the pit, preventing freeze-ups
- 15" diameter PVC tile (.300" thick)
  - 5/8" and 5/8"x3/4" single meter settings
  - 5/8" and 5/8"x3/4" tandem meter settings
- 18" diameter PVC tile (.360" thick)
  - 5/8", 5/8"x3/4" and 3/4" single, dual and tandem meter settings
  - 1" single and tandem meter settings

COIL:

- Coiled high-density polyethylene (HDPE) tubing, per ASTM D2737, SDR 9 CTS sized
- Complies with AWWA C901 (Note: Other comparable products in the market place may use polybutylene coil tubing and claim it meets AWWA C902 Standards. **Caution:** AWWA has *withdrawn* Standard C902 and is no longer a valid standard.)
- Coil is ANSI/NSF Standard 61 approved
- Working pressure 200 PSIG. (This pressure rating should be adequate for any Ford Coil Pit Setter or comparable competitor's product, as some of the connecting valves have a lesser pressure rating.)
- Coils are formed by a proprietary process specific to each tile diameter and pit depth, thus allowing consistent mobility while retaining its original form and providing minimal stress to the coil
- Ford provides 12" coil extension length standard with each pit to accommodate risers for future grade changes

CONNECTIONS:

- Brass components that come in contact with potable water conform to AWWA Standard C800 (UNS NO C89833)
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS NO C83600 - 85-5-5-5)
- Inlet and outlet service line connections are MIP and are clearly labeled
- Angled 60° elbows provide minimal stress on the tubing and maintain proper coil orientation
- Quick Joint Nuts (QJN) with thin stainless steel inserts are used for connecting to the HDPE tubing allowing full water flow, unlike crimping techniques requiring a thick brass insert that reduces the tubing ID at *every* connection
- Special lubricants within the QJN allow it to rotate on the tubing without becoming loose or compromising the connection
- If ever necessary, removal of coil or replacement of connections is easy and inexpensive as it only requires replacing the QJN gasket, unlike crimping techniques that require special tools, complete replacement of tubing and the entire crimped connection

METER MOUNTING PLATFORMS:

- Single or tandem platforms are molded polypropylene with structural ribs for rigidity
- Dual setting platforms are made from e-coated aluminum
- Various product heights may require spacers for alignment purposes

PLATFORM ACCESS RODS (ordered separately):

- Carbon Steel wire ASTM A510 with black e-coat finish
- Constructed with opposing fingers that fit over meter and hook under meter spuds which securely holds platform and meter during vertical movement
- Reduces potential tube drag by allowing a counterclockwise movement of the meter assembly that slightly tightens coil, reducing coil diameter
- Available 36" up to 72" long

EXTENSION RINGS (ordered separately):

- SDR 51 PVC PIP tile, per ASTM D2241
- Available in 2" increments up to 12". (Coil pits are standard with an extra 12" of tubing to accommodate up to 12" extension)
- Three separate locating supports
- Support/lid bracket factory installed

BOTTOM PLATES:

- Available as stainless steel partial tile bottom for 15" (15.30 O.D.) and 18" (18.70 O.D.) heavy walled PVC
- Available as plastic solid bottom for 15" (15.30 O.D.) and 18" (18.70 O.D.) heavy walled PVC
- Drain holes may be field installed in solid pit bottom or at factory

BRASS VALVES:

- Brass components that come in contact with potable water conform to AWWA Standard C800 (UNS NO C89833)
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS NO C83600 - 85-5-5-5)
- All dual check valves are ASSE 1024 approved
- 1" full port ball valve settings shall have the ball valve rotated and a 120° elbow will be assembled to maintain meter alignment within the tile ID. 5/8", 5/8" x 3/4", 3/4" and 1" Coil Pit Setters with angle ball valves will be reduced port unless otherwise specified. Add “-FP” to the catalog number for full port.
- Brass valves and fittings will maintain their individual NSF/ANSI Standard 61 Approval where applicable

IRON LIDS (Order separately):

- Locking and lockless lids are cast iron, per ASTM A48, Class 25
- Available with single or double 2" EMR holes
- Optional under-the-lid AMR plastic mounting plate
- Not for use with Coil Pit Driveway Covers below

IRON DRIVEWAY COVERS (Order separately):

- Load rating of 25,000 pounds
- Standard Ford worm latch with Pentagon Bolt
- Mounting wide cast lugs used in place of mounting bracket
- Available with electronic meter read feature (2" hole), -T or -TT
- Not for use with standard coil pit flat iron lid

INSULATING DISC (Order separately):

- 1-1/2" - 6" thick, minimum R-value 6.0 - 12.0
- Closed-cell polyethylene foam resists moisture absorption
- Provides extra protection against meter freeze-ups
- Plastic tie strap handle to assist in disc removal

The Ford Coil Pit Setter

Optional Items Ordered Separately

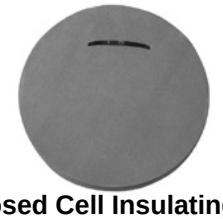
Coil Pit Lids and Bottom Plates

Cast Iron Flat Lids

Catalog Number	Size	Approx. Wt	Catalog Number	Size	Approx. Wt.
Lockless Lids					
PPSC-15	15"	20.0	**PPSC-18**	18"	28.0
Locking Lids					
PPSC-15-L	15"	20.0	**PPSC-18-L**	18"	28.0
Locking Lids with Plastic ERT Bracket					
PPSC-15-L-BR	15"	20.0	**PPSC-18-L-BR**	18"	28.0
Locking Electronic Read Lid					
PPSC-15-L-T	15"	20.0	**PPSC-18-L-T**	18"	28.0
Locking Double Electronic Read Lid					
PPSC-15-L-TT	15"	20.0	**PPSC-18-L-TT**	18"	28.0
Recessed Locking Electronic Read Lid					
PPSC-15-L REC-T	15"	20.0	**PPSC-18-L-REC-T**	18"	28.0
Lockless Electronic Read Lid					
PPSC-15-T	15"	20.0	**PPSC-18-T**	18"	28.0
Double Lockless Electronic Read Lid					
PPSC-15-TT	15"	20.0	**PPSC-18-TT**	18"	28.0
Recessed Lockless Electronic Read Lid					
PPSC-15-REC-T	15"	17.2	**-**	-	-
Recessed Lockless Electronic Read Lid (Extra Heavy)					
PPSCH-15-REC-T	15"	40.5	**-**	-	-

H-20 Rated Composite Flat Lids

Locking Lids					
PPSC-15-L-P	15"	18.5	**PPSC-18-L-P**	18"	27.0
Locking Lids with Plastic ERT Bracket					
PPSC-15-L-P-BR	15"	18.8	**PPSC-18-L-P-BR**	18"	27.3



Coil Pit Iron Driveway Cover (Frame and Lid)

Catalog Number	Description and Size	Approx. Wt
Cover (Frame and Locking Lid)		
A51H	15"	65.0
A62H	18"	74.0
Cover (Frame with Electronic Read Locking Lid)		
A51H-T	15"	65.0
A62H-T	18"	74.0
Cover (Frame with Double Electronic Read Locking Lid)		
A51H-TT	15"	65.0
Cover (Frame with Recessed Electronic Read Lockless Lid (Extra Heavy))		
A51H-LL-REC-T	15"	70.0
Iron Frame Only		
***PFC15F**	15"	30.0
***PFC18F**	18"	39.0
Locking Lid Only		
WA5LH	15"	35.0
WA6LH	18"	35.0
Locking Electronic Read Lid Only		
WA5LH-T	15"	35.0
WA6LH-T	18"	35.0
Locking Double Electronic Read Lid Only		
WA5LH-TT	15"	35.0
WA6LH-TT	18"	35.0

Closed Cell Insulating Discs

Catalog Number	Meter Pit Diameter	Thickness	Minimum R-Value	Color
CCID-15	15"	1-1/2"	6.0	Gray
CCID-15-2		2"	4.0	Green or White
CCID-15-4		4"	8.0	Green or White
CCID-15-6		6"	12.0	Green or White
CCID-18	18"	1-1/2"	6.0	Gray
CCID-18-2		2"	4.0	Green or White
CCID-18-4		4"	8.0	Green or White
CCID-18-6		6"	12.0	Green or White

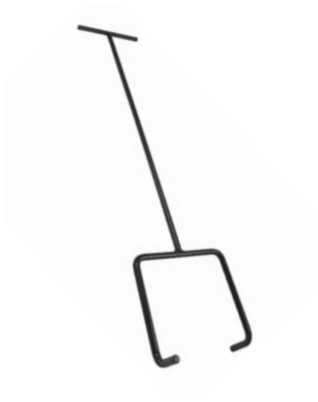
Special meter depth may be required on meter pits depending on lid type and disc thickness. Contact factory for further information.

* Frames cannot be used with standard coil pit flat lids, must be used with these matching lids only.
These covers carry a 25,000 pound load rating.

Ford Pit Setter Accessories

Optional Items Ordered Separately

Pit Access Rods and Extension Rings



Coil Pit Meter Platform Access Rods

Catalog Number	Meter Size	Service Line Depth	Approx. Wt.
CPLR-2-36	5/8" or 5/8" x 3/4"	Up to 60"	5.0
CPLR-2-48	5/8" or 5/8" x 3/4"	Up to 72"	6.0
CPLR-2-60	5/8" or 5/8" x 3/4"	Up to 84"	7.0
CPLR-2-72	5/8" or 5/8" x 3/4"	Up to 96"	8.0
CPLR-3-36	3/4"	Up to 60"	5.0
CPLR-3-48	3/4"	Up to 72"	6.0
CPLR-3-60	3/4"	Up to 84"	7.0
CPLR-3-72	3/4"	Up to 96"	8.0
CPLR-4-36	1"	Up to 60"	5.0
CPLR-4-48	1"	Up to 72"	6.0
CPLR-4-60	1"	Up to 84"	7.0
CPLR-4-72	1"	Up to 96"	8.0

Rods are sold by meter pit size and service line depth.

Coil Pit Extension Rings

Extension Length	15" Diameter Tile	Approx. Wt.	18" Diameter Tile	Approx. Wt.
2"	**CPS-EXT15-2**	1.7	**CPS-EXT18-2**	2.5
4"	**CPS-EXT15-4**	3.3	**CPS-EXT18-4**	4.8
6"	**CPS-EXT15-6**	4.9	**CPS-EXT18-6**	7.2
8"	**CPS-EXT15-8**	6.5	**CPS-EXT18-8**	9.6
10"	**CPS-EXT15-10**	8.2	**CPS-EXT18-10**	12.0
12"	**CPS-EXT15-12**	9.6	**CPS-EXT18-12**	14.3

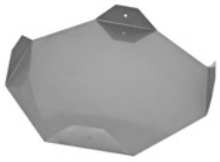
Standard Coil Pits can accommodate up to a maximum 12" extension ring. Extension lengths are in 2" increments from 2" to 12" for each tile diameter.

Pitsetter Extension Rings

Extension Length	18" Diameter Tile	Approx. Wt.	20" Diameter Tile	Approx. Wt.
4"	**PS-EXT18-4**	7.0	**PS-EXT20-4**	3.6
6"	**PS-EXT18-6**	9.7	**PS-EXT20-6**	4.9
8"	**PS-EXT18-8**	12.4	**PS-EXT20-8**	6.4
10"	**PS-EXT18-10**	15.1	**PS-EXT20-10**	7.8
12"	**PS-EXT18-12**	17.8	**PS-EXT20-12**	9.2

Adjustable Pit Setter Extender (Patent Pending)

Catalog Number	Extension Length	Description	Approx. Wt.
CPS-EXT18ADJ	3" - 12"	Adjustable Pit Extender for coil pits with 18" tile	110.4
PS-EXT18ADJ	3" - 12"	Adjustable Pit Extender for pits with 18" tile	110.3



Stainless Steel Bottom Plate

Catalog Number	Size	Approx. Wt.	Catalog Number	Size	Approx. Wt.
PPSBP-15	15.3"	3.3	**PPSBP-18**	18.7"	3.9

Solid Plastic Bottom Plate

Catalog Number	Size	Approx. Wt.	Catalog Number	Size	Approx. Wt.
PPSBP-15-P	15.3"	1.0	**PPSBP-18-P**	18.7"	2.0

The Ford Coil Pit Setter

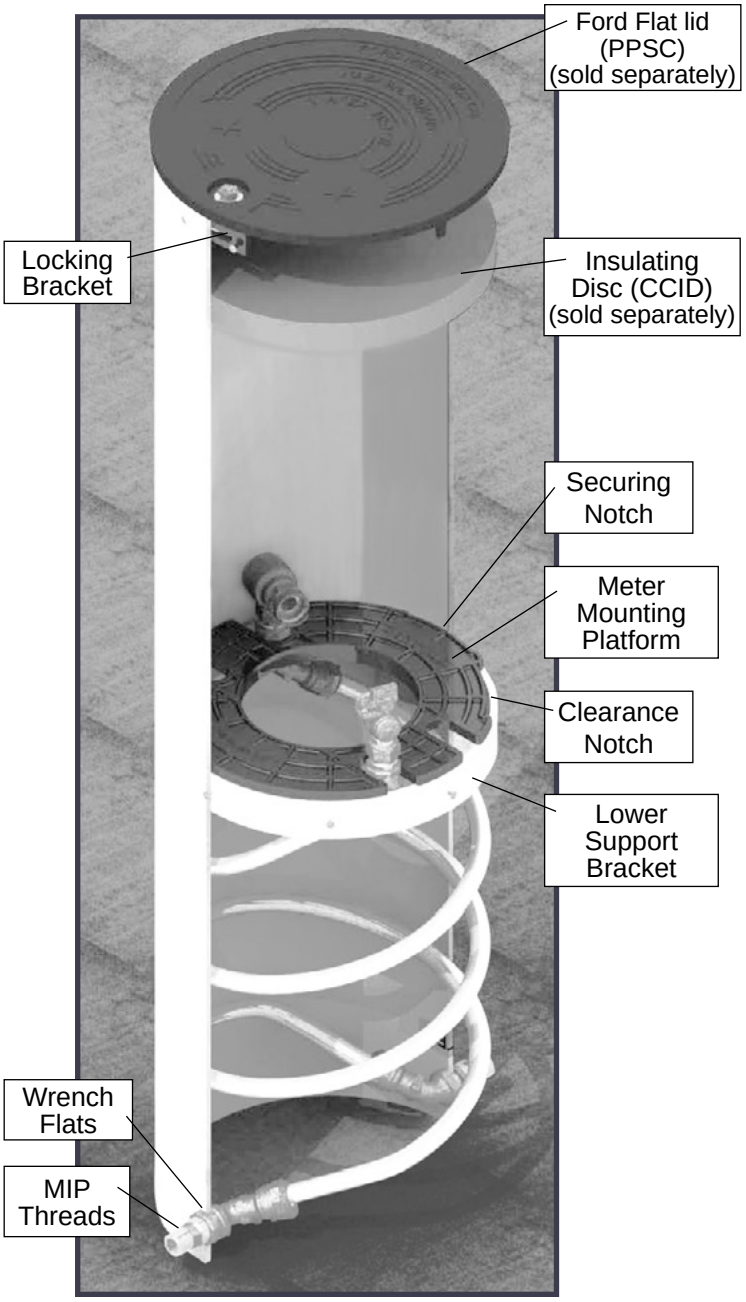
Installation Instructions

INSTALLATION INSTRUCTIONS FOR THE FORD COIL PIT SETTER

1. Dig trench to proper depth for Coil Pit Setter and lid, also allow for bottom support/drainage.
2. Place crushed gravel or an even layer of concrete blocks in the bottom of hole; if using a bottom plate, place in hole before installing the Coil Pit Setter.
3. Lower the pit setter in the hole so that the top edge is flush with grade level.
4. Connect the inlet and outlet service lines to the appropriate connection as marked on the tile by placing an additional wrench on the wrench flats of the MIP fitting to avoid unintentional twisting of the coil tubing.
5. Pressure test the Coil Pit Setter prior to backfilling to ensure all valves and joints are secured tightly and no leaks are detected.
6. **IMPORTANT:** Carefully backfill around the tile, 12" at a time, tamping each layer. Improper backfill may distort tile, resulting in immobility of the meter mounting platform.

PRECAUTIONS

1. Do not kink, fold, or over-stress the coil tube or damage may result. Avoid cuts, nicks and abrasions to the coil tube as they may affect service life and pressure integrity. Damaged coils should be replaced.
2. Be sure to lift the meter mounting platform just past both locking brackets. Rest the platform on the locking brackets and engage securing the notch of the platform onto one of the locking brackets. This secures the assembly while servicing the meter.
3. Ford's flat lid should be placed properly on the tile after each entry. Locking lid should have the lug and locking mechanism aligned within the tile's locking brackets to secure lock.
4. Meter mounting platform should be completely lowered to the lower support bracket when meter is not being serviced.
5. Store Coil Pit Setter in upright position, do not stack on its side.



Section **FA**

Ford® Plastic Pit Setters

Warranty

All merchandise is warranted to be free from defects in material and factory workmanship for one year from date of shipment from our factory. We will provide, free of charge, new products in equal quantities for any that prove defective within one year from date of shipment from our factory. Manufacturer shall not be liable for any loss, damage, or injury, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for user's intended use and user assumes all risk and liability whatever in connection therewith. No claims for labor or consequential damage will be allowed. The foregoing may not be changed except by agreement signed by an officer of the manufacturer.

No other warranties are applicable or may be implied, including the implied warranty of merchantability and the implied warranty of fitness for particular purpose and any warranty relating to infringement or the like, all of which are disclaimed.

Please Note:
Consult the Ford Meter Box Company, Inc. website (www.fordmeterbox.com) for the most recent catalog information. The Ford Meter Box Company considers the information in this catalog to be correct at the time of publication. Items and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.

SECTION 02900 – LOAM, SEED, STRAW MULCH & CLEANUP

PART 1 – GENERAL

1.1 DESCRIPTION

1. Work of this item consists of furnishing all labor, materials, equipment and performing all operations necessary for the repair, installation, replacement, and restoration of vegetated surfaces as shown on the drawings, as herein specified as directed by the Field Engineer and as evidently required to properly complete the following items:
   (1) Loam, seed and straw mulch all disturbed areas.

1.2 MATERIALS

1. The following materials shall conform to the following sections of the specifications:
   (1) Loam Borrow M1.05.0
   (2) Limestone M6.01.0
   (3) Fertilizer M6.02.0
   (4) Grass Seed M6.03.0 - Erosion Control Mixture
   (5) Straw Mulch M6.04.2

1.3 SUBMITTALS

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.
2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this Section:
   (1) Seed Mix
3. Shop Drawings:
   (1) Not Applicable.
4. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:
   (1) Not Applicable.

PART 2 – METHOD OF CONSTRUCTION

2.1 Loaming and seeding shall conform to Section 751 and 765, respectively, of the Standard Specifications. Spread straw mulch in accordance with Section 767 of the Standard Specifications. Depth of compacted loam borrow shall be 4-inches.

2.2 In existing lawn areas, special care should be given to spreading, grading, compacting, and raking of loam, limestone, fertilizer, seeding, straw mulch and all incidental work of disturbed areas to original conditions, as shown on the plans.

2.3 All surfaces shall be graded to drain toward drainage structures and waterways. Care shall be taken by the contractor to allow no depressions which could pond water.

2.4 Any slopes 4:1 or steeper shall be treated with slope stabilization matting to establish the designated grass or groundcovers.

2.5 Any vegetated waterways have slopes of 5% or steeper shall be protected with Erosion Control Reinforcement Matting.

PART 3 – METHOD OF MEASUREMENT AND PAYMENT

3.1 Lump Sum Price: This item shall be paid for as part of the Contract Stipulated Price with no separate measurement or payment, except for the following unit price items:

Item 17, Loam, HydroSeed, Straw Mulch & Cleanup, will be measured at the contract unit price per **lump sum**, which price will include all loam, seed, straw mulch, and cleanup required to restore the site to original conditions including, but not limited to driveway restoration, lawn restoration, installation of slope reinforcement materials North American Green SC150 or equal (if applicable), and all other restoration required to complete the work in accordance with the plans, details, and as stated herein and required to restore the site. No extra payment will be made for imported loam borrow.

END OF SECTION 02900

ITEM 7 **2" SCH 80 Electric Service Conduit, Bedding & Backfill** **LF**
(Wiring etc. by other)

ITEM 8 **3" SCH 80 Electric Service Conduit, Bedding & Backfill** **LF**
(Spare)

The work under this item shall conform to the relevant provisions of the Standard Specifications, the details and plans, and the following:

The work shall consist of installing buried electric service conduit with sand bedding and backfill and coordinating for connection to the existing electric meter installation (by others) per applicable specifications.

Method of Measurement and Payment:

Item 7, 2" SCH 80 Electric Service Conduit, Bedding & Backfill will be measured and paid for at the contract unit price, per **linear foot**, complete in place, including excavation, sand bedding and backfill, and coordination with electrical contractor.

Item 8, 3" SCH 80 Electric Service Conduit, Bedding & Backfill – Spare will be measured and paid for at the contract unit price, per **linear foot**, complete in place, including excavation, sand bedding and backfill, and coordination with electrical contractor.

END OF SECTION

ITEM 13 **Aluminum Bench** **EA**

ITEM 14 **Trash & Recycling Receptacles with Stone Base** **EA**

The work under these items shall include the furnishing and installation of new benches on concrete posts, and new trash and recycling receptacles with stone bases as shown on the plans and construction details, and as directed by the Engineer. Bench and Trash/Recycle Receptacle locations shall be as shown on the plans, in accordance with these specifications, and/or as required by the Engineer.

Work in this section shall include all labor, materials, and equipment to perform all operations required for the completion of the work within this section and as shown on plans and details.

Benches and Trash/Recycle Receptacles shall be set level. Benches shall be anchored in concrete base - see plans for locations and details.

STANDARDS

Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern.

- ASTM – American Society for Testing and Materials
- AWS – American Welding Society

SUBMITTALS

The Contractor shall submit shop drawings to the Engineer for approval. No materials shall be fabricated or shipped prior to approval of the shop drawings by the Engineer.

Manufacturer's information within 14 days after award of the contract, submit manufacturer's literature, brochures and/or specifications for the following:

- Bench
- Trash and Recycling Receptacle
- Anchoring hardware

QUALITY ASSURANCE AND WARRANTY

Units shall be free of cracks, chips, scratches and any other defect at the time of delivery.

Cutting, painting (other than touch-up), and welding in the field will not be permitted.

Contractor shall provide to the Engineer the written maintenance and operational instructions, all warranties, and guarantees provided by the Manufacturers for the specific improvements and finishes, for a minimum of one year after Final Acceptance. If Manufacturer does not provide warrantee for materials installed, Contractor shall assume all cost for replacement of specified material, if product fails during warrantee period.

Contractor shall provide a guarantee of minimum of one year after acceptance of Workmanship and against defect as determined by the Department, and shall completely replace or repair site improvements at their own expense within two months after item is identified in the field.

DELIVERY, HANDLING AND STORAGE

Deliver units to the site in manufacturer's original, unopened containers and packaging. All units shall be placed in a storage area, protected from damage prior to and during transit to the Owner's or Contractor's site. Upon delivery examine packages immediately to ensure all products are complete and undamaged. Remove and replace damaged items.

Store units in covered, dry locations, protected from weather, stored off the ground, and secured on-site. Avoid use of protective materials that trap heat and moisture

Protect product's finish from damage during handling and installation.

Secure all items from damage for any reason, including vandalism, and theft.

MATERIALS

The Bench shall be as specified on the plans. Bench shall be supplied by the following manufacturer or approved equivalents:

1. BSN Sports Players Bench with Back, 7'-6" long, ribbed non-slip 10" wide bench, anodized aluminum with galvanized steel legs, safety caps, and hardware.

Concrete: Section 901 of the MHS Standard Specifications and Cast-in-place concrete according to ACI 318, ACI 350R, and the following:

1. Cement: ASTM C 150, Type II
2. Aggregates: ASTM C 33Provide all materials from new stock, free from defects impairing strength, durability and appearance, and of best commercial quality for the purpose specified.

Supply all equipment hardware and required accessories required for complete, operating and installed site improvement item specified herein.

All hardware shall be fabricated from steel conforming to ASTM A36 and shall be galvanized by the hot-dip process in conformity with ASTM A153-73 for Zinc Coating (Hot-Dip) on Iron and Steel Hardware, unless otherwise specified as stainless steel conforming to ASTM Type 316 and 317 stainless steel bolts, anchors, clips, and fasteners shown on the Drawings and indicated herein.

Provide all exposed fasteners of the same material, color and painted finish as the fastened material unless otherwise indicated in the Drawings and specified herein.

Provide all exposed fasteners vandal-proof (spanner-head type), unless otherwise noted in the Drawings or specified herein. Some items will require removal for regular maintenance or for other uses. Provide fasteners and sleeves that allow for removal without damaging the fasteners

or the item.

Bench and Trash/Recycle Receptacle shall meet the visual illustration shown on the Drawings and shall be manufactured to the dimensions and quantities shown on the Drawings and Specifications.

All welds shall be continuous and ground smooth and watertight, without compromising the structural integrity of the weld.

All new trash/recycle receptacles and benches shall be of identical model.

INSTALLATION

The Contractor shall stake the trash/recycle receptacle and bench locations in the field and the locations shall be approved by the Engineer, in consultation with the Town, prior to trash/recycle receptacle and bench related construction, including concrete bases.

Trash/Recycle Receptacles and Benches shall be installed as recommended by the manufacturer. Anchor bolts, sleeves and mounting hardware shall be designed and constructed per manufacturer specifications.

The Contractor shall install the trash/recycle receptacles and benches once all heavy construction is complete, as approved by the Engineer. The Contractor shall protect trash/recycle receptacles and benches from paint spatter, concrete splashes and other construction damage by wrapping in plastic sheeting or heavy kraft paper and taping in place. The protective wrap shall not be removed until adjacent work is completed. The Contractor shall repair any damage to the trash/recycle receptacle and bench finish.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 13 Aluminum Bench will be measured for payment as a unit, complete in place. Item 14 Trash & Recycling Receptacles with Stone Base will be measured for payment as a unit, complete in place.

Item 13, Aluminum Bench, and Item 14, Trash & Recycling Receptacles with Stone Base, will be paid for at the contract unit price, per **each**, which price shall include all labor, materials, hardware, equipment labor and equipment, concrete pole base, bedding and backfill, excavation, and incidental costs required to complete the work.

Concrete posts shall be considered incidental to Item 13.

Rock Excavation will be paid for at the contract unit prices per cubic yard under the item for Class B Rock Excavation. Excavation shall be considered incidental under this item.

END OF SECTION

ITEM 15 Portable Refrigerated Ice Rink (44' x 80') – Complete in Place with Chillers, Foam Leveling and Protection Over Court EA

The work under this item shall include the furnishing and installation of a new portable refrigerated ice rink, complete in place with chillers, foam leveling and protection over the existing multi-use court as shown on the plans and construction details, and as directed by the Engineer.

Work in this section shall include all labor, materials, and equipment to perform all operations required for the completion of the work within this section and as shown on plans and details.

STANDARDS

Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern.

- ASTM – American Society for Testing and Materials
- AWS – American Welding Society

SUBMITTALS

The Contractor shall submit shop drawings to the Engineer for approval. No materials shall be fabricated or shipped prior to approval of the shop drawings by the Engineer.

Manufacturer's information within 14 days after award of the contract, submit manufacturer's literature, brochures and/or specifications for the following:

- Portable Refrigerated Ice Rink with Chillers, Foam Leveling and Protection (over existing multi-use court)

QUALITY ASSURANCE AND WARRANTY

Units shall be free of cracks, chips, scratches and any other defect at the time of delivery.

Contractor shall provide to the Engineer the written maintenance and operational instructions, all warranties, and guarantees provided by the Manufacturers for the specific improvements and finishes, for a minimum of one year after Final Acceptance. If Manufacturer does not provide warrantee for materials installed, Contractor shall assume all cost for replacement of specified material, if product fails during warrantee period.

Contractor shall provide a guarantee of minimum of one year after acceptance of Workmanship and against defect as determined by the Department, and shall completely replace or repair site improvements at their own expense within two months after item is identified in the field.

DELIVERY, HANDLING AND STORAGE

Deliver units to the site in manufacturer's original, unopened containers and packaging. All units shall be placed in a storage area, protected from damage prior to and during transit to the

Owner's or Contractor's site. Upon delivery examine packages immediately to ensure all products are complete and undamaged. Remove and replace damaged items.

Store units in covered, dry locations, protected from weather, stored off the ground, and secured on-site. Avoid use of protective materials that trap heat and moisture

Protect product's finish from damage during handling and installation.

Secure all items from damage for any reason, including vandalism, and theft.

MATERIALS

The Portable Refrigerated Ice Rink – Complete in Place with Chillers, Foam Leveling and Protection Over Court shall be as specified on the plans. Item shall be supplied by the following manufacturer or approved equivalents:

1. Iron Sleek, Inc. 44' wide x 80' long refrigerated portable ice-skating rink floor and refrigeration system.

Supply all equipment hardware and required accessories required for complete, operating and installed site improvement item specified herein.

The Portable Refrigerated Ice Rink – Complete in Place with Chillers, Foam Leveling and Protection Over Court shall meet the visual illustration shown on the Drawings and shall be manufactured to the dimensions and quantities shown on the Drawings and Specifications.

INSTALLATION

The Portable Refrigerated Ice Rink – Complete in Place with Chillers, Foam Leveling and Protection Over Court shall be installed as recommended by the manufacturer.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 15, Portable Refrigerated Ice Rink (44' x 80') – Complete in Place with Chillers, Foam Leveling and Protection Over Court, will be paid for at the contract unit price, per **each**, which price shall include all labor, materials, hardware, equipment labor and equipment, bedding and backfill, excavation, and incidental costs required to complete the work.

END OF SECTION

Iron Sleek, Inc.
2101 Executive Dr.
Addison, IL 60101
P: 877.825.2334
Anthony Barbanente
(773)732-3865
anthony@ironsleek.com

www.ironsleek.com

BUDGET PROPOSAL

April 22, 2025

15 Pages

RE: Iron Sleek Portable Rink Kit

Iron Sleek is pleased to offer the following budget proposal for a ***44' wide x 80' long refrigerated portable ice-skating rink*** in Lenox, MA, USA.

Iron Sleek proposes to provide a fully operational refrigerated portable ice rink floor and refrigeration system to create a 44' x 80' outdoor ice-skating rink suitable for up to 3-4 months of ice under typical weather conditions of 8-10°C (45-50°F) or less.

The rink configuration includes a new Roll-Out-Rink™ portable ice floor piping system and (2) new RinkMate™ 10-ton, air cooled packaged refrigeration units. This configuration is suitable for seasonal takedown and storage or expansion in future.

Our contract includes the following Main Components:

1. Main Components:

A. Ice Rink Floor System - Iron Sleek Ice will supply only:

- One (1) 44' x 80' Roll-Out-Rink™ portable ice rink floor piping system consisting of 11 rolls of 1/2" polyethylene refrigeration tubes spaced at 1.5" c/c, 4' wide x 80' long.
- Plastic spacer strips will be used to keep the pipes straight and level for maximum efficiency.
- Each 4' piping roll will be finished at one end with 1" copper supply and return subheaders and 1" copper reversing subheaders at the other end.
- These supply and return subheaders will then connect to 3" SCH 10 steel supply and return headers via two (2) flexible hoses per 4' Roll-Out-Rink™ section for simple setup, takedown, and glycol charging.
- Cam Locks will be provided to permit fast and simple installation.
- This system is suitable for rolling up and storing for seasonal take down or relocating as required.
- Rink floor piping will be placed on level grade **(leveling by others)** with the waterproof liner supplied by Iron Sleek.
- The perimeter will be finished with a containment frame or dasher boards with support brackets all by Iron Sleek.

B. Refrigeration System: Iron Sleek will supply only:

- Two (2) RinkMate™ refrigeration chiller capable of approximately 20 tons of refrigeration using R404a at design conditions. Currently offered as single phase. Three phase chillers are also available at similar pricing.
- This refrigeration capacity is suitable for up to 3-4 months of outdoor ice operation up to 8-10°C (45-50° F).

- Refrigeration units will be controlled by automatic ice temperature control systems which will start and stop the chillers to maintain the desired ice temperature (ex. 23° F)
- Unit shall be connected to ice rink piping using 3" flexible hoses.
- Refrigeration units will be placed on level minimum 10' x 12' 4" concrete pad or suitable level location (Pad and leveling By Others).
- **Units require 2 to 3' of clearance on all sides for service access and air flow.**
- Each Refrigeration system includes one (1) internal glycol circulation pump, external expansion tank, all required valves, fittings, gauges and connections and complete charge of ethylene glycol solution.
- ***Each RinkMate™ Kit refrigeration system requires one (1) 100-amp breaker, 230 vac, 1 ph, 60 hz.***
- ***Chiller Dimensions: 80" x 36" x 48"***

Please Note: Electrical service and connections to chiller are by others.

C. Main Piping: Iron Sleek will supply only:

- 3" flexible main hoses connecting the refrigeration equipment to the ice rink headers up to 30' away with standard rink design.
- The steel headers will sit outside of the rink area at one end only on a level area on grade with the rink that is approximately 3' width.
- Main hose connections at the headers and refrigeration equipment will also use Cam Lock fittings for fast and simple installation.

D. Ice Making and Maintenance: Iron Sleek will supply only:

- Complete Operations and Maintenance Manual
- One (1) manual ice resurfacer, 4' wide complete with flow control valve, towel bar and towel to maintain and flood your ice.
- This resurfacer connects to any common garden hose and can easily be passed around the ice to maintain a high-quality ice surface.

ESTIMATED BUDGET PRICE

Complete System	44x80 20 Tons Cooling 200 amps MOP
Rink Size	
44 x 80	96,995
Complete System: Chillers (2 each 10 Ton Units), All Brackets, 6 Mil liner, Glycol, 8" Kick Plate, Header Pipe, and Expansion Tank.	
Includes Best in Industry One Year warranty (New Unit Only)	
■ Hybrid Boards	11,760
Equipment Total	108,755
Tax Exempt Comm 0.00% Sales Tax	0
Delivery	2,650
Sub Total With Delivery	111,405
Installation	7,500
Travel Installation Team	1,800
Total Investment	120,705
Custom Upgrades	
Foam: 1" Foam sheets for covering Court	1,800
Leaveling Foam based on 1 degree of pitch to assist in leveling the rink	8,500

All equipment included in this proposal is guaranteed for one (1) year from date of completion of the original installation and payment of contract in full. Any item that is defective, under normal working conditions, during this time period will be repaired or replaced, at our option.

Terms & Conditions:

- All pricing in USD Funds
- 12-16 weeks lead time required from receipt of approved customer drawings is recommended
- Applicable taxes are extra
- Customer is responsible for any applicable sales and use tax
- Pricing is valid for **30 days** from above noted date
- **Local permits or licensing are not included and are the responsibility of the buyer**

Payment Schedule:

- 60% Deposit with signed contract
- 40% 1 week prior to shipping of rink materials
- Or by Contractual Agreement

Lenox
MASSACHUSETTS

Iron Sleek Outdoor Rink Solutions
2101 Executive Drive
Addison IL 60101
(877) 825-2334 Anthony@Ironsleek.com
Anthony Barbanente Cell (773) 732-3865

IRON SLEEK
OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

2025/2026 Estimated Pricing Quotation

The Iron Sleek Difference

LOW MAINTENANCE
Our system is PLUG & SKATE. Refrigeration systems help maintain constant ice. They require significantly less weather-dependent maintenance than natural or flooded rinks.

EXTENDED SEASON
SKATE ALL WINTER LONG! Refrigerated Ice Rink Systems can EXTEND THE SKATING SEASON from late November to early March.

EASY STORAGE
Our ROLL-UP REFRIGERATION MATS are easily stored at the season's end & are ready for the next season. Components quickly disconnect for storage.

FULL SUPPORT
CUSTOMER SERVICE AND DEDICATED SUPPORT TEAM. Our staff engineers, technicians, installers, & customer service specialists provide extensive support & troubleshooting should the need arise, even during weekends.

PORTABLE
100% PORTABLE! Chiller Components snap together. they are "easy up" in the fall & "easy down" in the spring. Professional installation, teardown, and storage services are available.

DEPENDABLE ICE
Refrigerated ice rink systems help reduce the effects of UNSEASONABLY WARM WEATHER and the occasional warmer day.

EXPANDABLE
CUSTOM CONFIGURATIONS ARE AVAILABLE. Expandable up to 85' X 200'. Easy single-phase electrical setup. Chiller units come in 3, 7, and 10 Tons and can be mixed and matched.

TURNKEY REFRIGERATED RINKS

Skate all season long with our Refrigerated Rink Solutions

Lenox
MASSACHUSETTS

IRON SLEEK
OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

Previous Project: Seasonal Turn-Key Refrigerated Ice Rink Waterford, WI

Check out what this one community had to say about their new rink...

PS watch the video here.

Village of Waterford WI
(Installed 2023)

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OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

Our **Commercial System** has a distinct advantage because **it does not require spikes** to secure the boards in place.

On A Court

On Turf

On Grass

MODULAR **MOVABLE** **EXPANDABLE**

UPDATED
"NO STAKE"
NEW DESIGN

IRON SLEEK
OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

Previous Project: Refrigerated Ice Rink On Clay Tennis Court

From our experience, covering a hard court (tennis court) with a rink in winter protects it from freezing water. Ice is less likely to enter the court's micro-cracks since the surface is covered. Overall, covering a surface with a rink can help reduce the risk of surface damage (cracking).

- **Rigid Foam Insulation** provides added Court Protection
- **New Bracket Design** Freezes Support Under the Rink, so stakes are not generally not needed as long as rink is frozen

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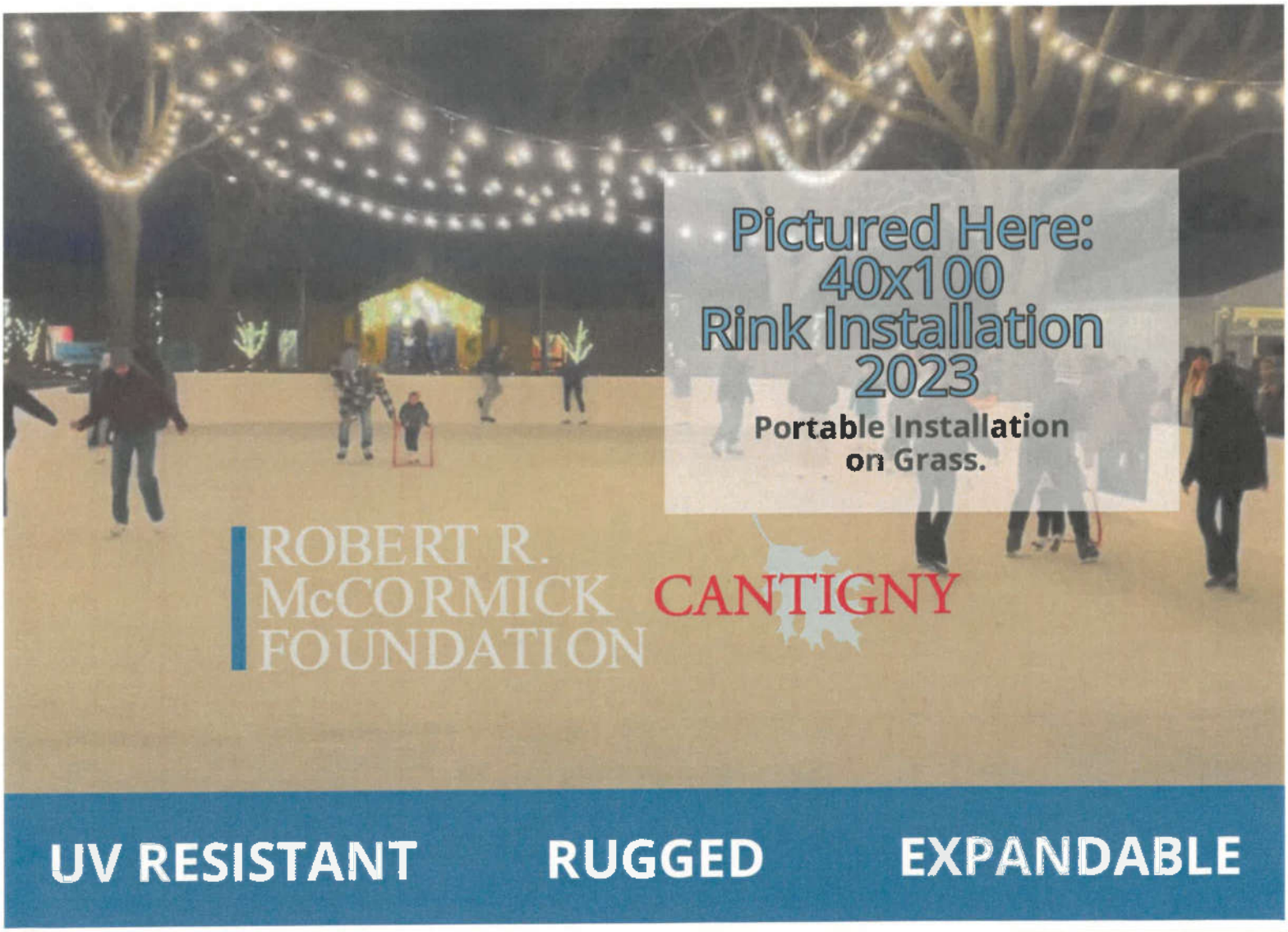
OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

In The Past Years, we've Installed rinks for several Municipalities, Park Districts, Foundations & Clubs:

- Kohler, WI
- McHenry, IL
- Morris, IL
- waterford, WI
- Middletown, NY
- Grayslake, IL
- Minnesota Vikings, MN
- Cantigny Park



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OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

Information For Electrician

- TWO 100-AMP CIRCUITS: INSTALL TWO SEPARATE 100-AMP CIRCUITS TO THE OUTDOOR BREAKER DISCONNECTS.
- TOTAL POWER REQUIREMENT: THE TWO 10-TON CHILLER SYSTEMS REQUIRE A TOTAL OF 200 AMPS.
- ELECTRICAL SUPPLY: USE 208/240 SINGLE-PHASE ELECTRICITY.
- DIRECT WIRING: ELECTRICAL CONNECTIONS SHOULD BE WIRED DIRECTLY TO EACH CHILLER UNIT.
- WIRING CONFIGURATION: EACH CIRCUIT SHOULD HAVE 2 HOT WIRES AND A GROUND WIRE (NO NEUTRAL WIRE IS NEEDED).
- DISCONNECT BREAKERS: EACH CHILLER MUST HAVE ITS OWN DEDICATED DISCONNECT BREAKER.

* PLEASE HAVE A LICENSED ELECTRICIAL REVIEW AND VERIFY ALL RECOMMENDATIONS.

THIS SYSTEM IS SUITABLE FOR ROLLING UP AND STORING FOR SEASONAL TAKEDOWN OR RELOCATING

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OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

Basic Warranty
(One Year Warranty)

WARRANTY:

ALL EQUIPMENT INCLUDED IN THIS PROPOSAL IS GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF COMPLETION OF THE ORIGINAL INSTALLATION AND PAYMENT OF THE CONTRACT IN FULL. ANY ITEM THAT IS DEFECTIVE, UNDER NORMAL WORKING CONDITIONS, DURING THIS TIME PERIOD WILL BE REPAIRED OR REPLACED AT OUR OPTION.

THIS SYSTEM IS SUITABLE FOR ROLLING UP AND STORING FOR SEASONAL TAKEDOWN OR RELOCATING

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OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

Basic Refrigeration System Specifications

MAIN COMPONENTS:

- TWO (2) NEW RINKMATE™ REFRIGERATION CHILLERS CAPABLE OF APPROXIMATELY 20 TONS OF REFRIGERATION AT DESIGN CONDITIONS
- ONE NEW (1) 44' X 80' ROLL-OUT-RINK™ PORTABLE ICE RINK FLOOR PIPING SYSTEM CONSISTING OF 1/2" POLYETHYLENE REFRIGERATION TUBES SPACED AT 1.5" C/C
- AUTOMATIC ICE TEMPERATURE CONTROL SYSTEMS THAT START AND STOP THE CHILLERS TO MAINTAIN THE DESIRED ICE TEMPERATURE (EX. 22° F)
- CHILLER CONTAINS AN INTERNAL GLYCOL CIRCULATION PUMP, EXTERNAL EXPANSION TANK, ALL REQUIRED VALVES, FITTINGS, GAUGES, AND CONNECTIONS
- POLYETHYLENE SPACER STRIPS KEEP THE PIPES STRAIGHT AND LEVEL FOR MAXIMUM EFFICIENCY
- SUPPLY AND RETURN SUBHEADERS CONNECT TO 2" SCH 10 STEEL SUPPLY AND RETURN HEADERS VIA TWO (2) FLEXIBLE HOSES PER 4' ROLL-OUT-RINK™ SECTION FOR SIMPLE SETUP AND TAKEDOWN
- GLYCOL COOLANT IS SUPPLIED
- IRON SLEEK 1/2 INCH THICK POLY STEEL™ DASHER BOARDS WITH STEEL REINFORCED FRAMING

THIS SYSTEM IS SUITABLE FOR ROLLING UP AND STORING FOR SEASONAL TAKEDOWN OR RELOCATING

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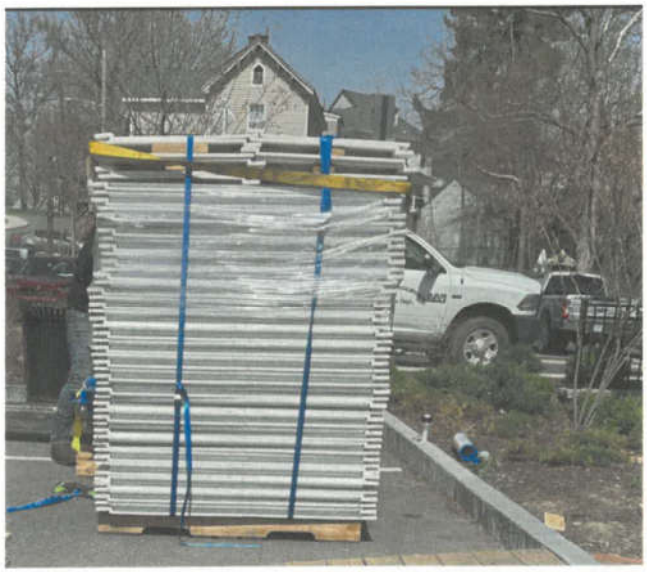
MASSACHUSETTS

IRON SLEEK
OUTDOOR ICE RINK SYSTEMS AND SPORT COURT ENCLOSURES

Storage:
The system is Portable and The Boards Stack

We provide Teardown and Storage Services across the US.

We can also train municipal staff on all aspects of rink maintenance.



THIS SYSTEM IS SUITABLE FOR ROLLING UP AND STORING FOR SEASONAL TAKEDOWN OR RELOCATING

COMMERCIAL REFERENCES

JOHN BIANCHI
CITY OF MIDDLETOWN, NY
DEPUTY COMMISSIONER OF PARKS DEPARTMENT
CELL: (845) 741-6117
393 COUNTY ROUTE 78
MIDDLETOWN, NY 10940

CHER WOEHL
TOWN OF NEVERSINK, NY
PARKS & REC DIRECTOR
(845)985-2401
CWPARKSANDREC@GMAIL.COM
PO BOX 307
273 MAIN STREET
GRAHAMSVILLE, NY 12740

STAN KNUDSON
CITY OF MORRIS, IL
COMMUNITY AFFAIRS DIRECTOR
CELL: (815) 258-6195
SKNUDSON@MORRISIL.ORG
700 N. DIVISION ST
MORRIS IL 60450

SCOTT WITTE
CANTIGNY PARK (MCCORMICK FOUNDATION)
SPECIAL PROJECTS COORDINATOR
CELL: (630) 362-2567
SWITTE@CANTIGNY.ORG
1 S, 151 WINFIELD RD
WHEATON, IL 60189

ADDITIONAL REFERENCES ARE AVAILABLE UPON REQUEST

ITEM 18 **SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS** **LUMP SUM**

This work will conform to the relevant provisions of Section 850 and the following:

All moveable or portable signing shall be paid for under this item. The placement of necessary devices, cones, and high level warning devices will be for the daily work period and shall be removed immediately after the conclusion of the work operation.

Signs having messages irrelevant to normal traffic conditions will be removed or properly covered at the end of each workday.

The contractor shall maintain all devices in a satisfactory condition. Signs are to be kept clean at all times and legends shall be distinct and unmarred.

Also, included in this item shall be two pair of two-way radios, complete with rechargeable batteries that will be recharged on a daily basis by the contractor. These radios shall have a minimum range of three (3) miles and shall be available for use by traffic police to aid in paving operations and/or daily construction operations. These radios are to be returned to the contractor upon completion of the project.

The contractor shall provide a safety truck capable of carrying the necessary signs, cones, high level warning devices and barrels needed for the difficult daily construction operations. This safety truck shall be equipped with a radio, so communication between contractor superintendent and the safety truck is continuous. Also, included in this item shall be two (2) Contractor personnel who have full knowledge and understanding of the principles, standards, and regulations as set forth in the Manual on Uniform Traffic Control Devices (Latest Edition). These personnel shall provide safety set-ups and operate from the safety truck.

The Contractor shall maintain traffic flow on all streets and driveways (at least one lane and/or means of egress suitable to the local authorities) to be improved. The Contractor shall coordinate traffic control requirements with the Local Police Department.

As necessary and/or as directed by the Engineer, traffic police shall be employed for the protection and maintenance of traffic. Reasonable facilities shall be provided by the Contractor for the convenient and safe passage of pedestrians and vehicles through the project and also to and from properties abutting the site of improvement. If required, pedestrian traffic detours shall be ADA / AAB compliant.

The Contractor's attention is directed to the need for insuring that the roadside is clean of all construction vehicles after working hours that equipment and materials not in use and debris are removed from the edge of the traveled way and that modification to these items is possible if necessary to insure the safety of the traveler.

All work shall conform to MassDOT standards and requirements and details and such work, materials, labor, etc…shall be included as incidental under Item 15.

METHOD OF MEASUREMENT AND PAYMENT

Roadway safety signing and operations for construction operations will be considered incidental to this item.

Compensation for all the above shall be incidental to the lump sum payment under Item 18.

END OF SECTION

ITEM 19 TRAFFIC CONTROL SERVICES ALLOWANCE

ITEM 20 TESTING SERVICES ALLOWANCE

The Contractor shall furnish traffic control services required to direct traffic on existing roadways where traffic is maintained.

The Contractor shall provide such police officers as may be deemed necessary by either the Engineer or the Town for the direction and control of all traffic traveling within and through the project area. The police officers shall be obtained from the Town Police Department as applicable. The police officers shall be paid by the Contractor at the prevailing rate of wages established by the Town.

ALLOWANCE FOR TRAFFIC CONTROL SERVICES

An allowance for the furnishing of traffic control services has been included in all bids. This allowance is determined by multiplying the number of hours estimated as necessary by the prevailing hourly rate of wages established for such services. The Contractor shall submit certified copies of itemized bills of services rendered for review and approval by the Engineer. The allowance will be adjusted to the actual amount paid for authorized and approved police services as stipulated and shall include other payments due to any legal requirements of the State land Federal governments.

ALLOWANCE FOR TESTING

Testing of earthwork materials or subbase conditions to ensure compliance with these Special Provisions. The Town will select a testing laboratory for this work. The contractor shall then coordinate with the laboratory to be present on the work site to perform the testing. Test reports shall be provided to the Engineer with copies to the contractor. Work on materials that fail to meet the requirements of these Special Provisions shall be promptly corrected by the contractor. The cost of tests that fail to show compliance will not be reimbursed to the contractor. The contractor shall be reimbursed for testing based on paid invoices from the laboratory.

PAYMENTS

The quantity to be paid for under these items shall be the actual amount paid by the Contractor to provide satisfactory police services and testing operations as stipulated and required. Any overhead costs shall be considered to be included in the prices bid for the other items of the Contract.

END OF SECTION

ITEM 21 **Electrician Services (Meter Install, Wiring, & Connection to Chiller)** **ALLOWANCE**

The Contractor shall furnish electrician services required for meter installation, wiring, and connection to chiller for the ice rink.

The Contractor shall provide electrician as may be deemed necessary by either the Engineer or the Town.

ALLOWANCE FOR ELECTRICIAN SERVICES

An allowance for the furnishing of electrician services has been included in all bids. This allowance is determined by multiplying the number of hours estimated as necessary by the prevailing hourly rate of wages established for such services. The Contractor shall submit certified copies of itemized bills of services rendered for review and approval by the Engineer. The allowance will be adjusted to the actual amount paid for authorized and approved services as stipulated and shall include other payments due to any legal requirements of the State land Federal governments.

PAYMENTS

The quantity to be paid for under these items shall be the actual amount paid by the Contractor to provide satisfactory services and operations as stipulated and required. Any overhead costs shall be considered to be included in the prices bid for the other items of the Contract.

END OF SECTION