



TOWNSEND WATER DEPARTMENT
540 Main Street West Townsend, Massachusetts 01474

mm
9/13/21

Todd Melanson, Chairman
David Vigeant, Superintendent

Michael MacEachern, Vice-Chairman
(978) 597-2212

Christopher Jones, Clerk
Email water@townsendwater.org

WATER COMMISSIONERS MEETING MINUTES

August 9, 2021 - 7:00 P.M.

Water Department 540 Main Street, Meeting Room

NOTE REGARDING ACCESS AND PARTICIPATION

Governor Baker updated the State of Emergency to respond to COVID-19 on June 16, 2021 and ordered an extension of certain provisions of the Open Meeting Law M.G.L. c. 30A, s 20 put into effect on March 12, 2020, until April 1, 2022 at which time the extension will be repealed.

<https://us02web.zoom.us/j/82855094307?pwd=YlJkUGVsWUwMjhwdUJLY1RtODNsZz09>

Meeting ID: 828 5509 4307 Password: 788309 Log on Monday August 9, 2021, at 7:00 P.M. to participate.

I. PRELIMINARIES:

- 1.1 TM called the meeting of the Board of Water Commissioners to order at 7:03 PM.
- 1.2 TM announced that the meeting is being audio recorded and recorded on Zoom.
- 1.3 Roll Call showed members present: Todd Melanson (TM)-Chairman, Michael MacEachern (MM)-Vice Chairman, Christopher Jones (CJ)-Clerk. Roll Call showed citizens present: Beverly Napier & David Werlin of 169 Main St, Chaz Sexton-Diranian (CSD)-Board of Selectmen, David Vigeant (DV)-Superintendent.
- 1.4 Chairman's additions or deletions. TM expressed concerns about development within the town regarding the protection of the water supply. He has requested to have a meeting with the Chairman of selected Boards to discuss Zone II development. CSD will speak more to this in 5.1.
- 1.5 Approve Meeting Minutes of July 19, 2021. MM requested that the wording for section 6.7 say for safety purposes, rather than discolored water, since that encompasses all reasons, including the discoloration. MM motioned to approve the meeting minutes of July 19, 2021, as amended. CJ seconded. Unanimous vote.
- 1.6 Review correspondence. None available.

II. APPOINTMENTS-VOTES MAY BE TAKEN

2.1

III. MEETING BUSINESS-VOTES MAY BE TAKEN:

- 3.1 Update/Discuss Cross Charge Agreement. Tabled.
- 3.2 Discuss/Review Updated Rules & Regs. After discussion, it was agreed that the section for trailers can be removed because it falls under the category of a residence, and the town bylaws do not allow any new trailers in town. TM asked DV to re-write the regs as he would like them and submit them from review at the next meeting.
 - 3.2.1 Discuss/Review pro-rated unit charges. DV said that since the condo fee is not lessened by the amount of the unit charge that is being adjusted, then no pro-rating should be occurring. TM requested that DV write an SOP for the condo association notifying them that they must show an abatement or refund to the condo owner prior to any abatement requests submitted to the office.
 - 3.2.2 Discuss/Review Installment payments for connection fees. This would be for existing homes only as an emergency such as if a well dried up or was contaminated. CSD suggested to provide three options: Pay the connection fee in full, pay half up front and half in a year, or pay on a 3-year plan, billed quarterly. TM asked DV to write up an agreement and submit it Town Council to make sure it is a legal document.
- 3.3 Discuss/Review 169 Main St and Greely Rd. The Board members and the residents attending discussed the current situation on the properties. DV proposed snaking a 2" line through the existing 4" line for the service connections. MM talked about his concerns over who is responsible for paying for these repairs. He does not think that the Water Department should be responsible for the entire cost. CSD suggested reaching out to Town Council to make sure

that everything regarding liabilities is covered. TM suggested that a site walk be scheduled followed by DV write a timeline and proposal of how long the maintenance would take and the residents would be without water. Once the proposal has been completed, it should be submitted to Tighe and Bond as well Town Counsel for review. The site walk has been scheduled for Friday, August 13, 2021, at 5:00 PM.

- 3.4 Update/Discuss PFAS. Application for the grant and funding will be submitted for the project proposal submitted to the Board on August 18th. After reviewing the proposal from Tighe and Bond, TM requested the removal of the looping projects as it brings down the grade of the project and should be treated as infrastructure. TM motioned to accept Tighe and Bond's project narrative with the exception requiring the removal of 2.3 Project 3-Looping of South End Row and Emery and the removal of 2.4 Project 4-Loop Lunenburg Rd, Bayberry Hill Rd, 1 water storage tank and booster station and submit as is with everything else. MM seconded. Unanimous vote.
- 3.5 Update/Discuss Harbor Trace. DV reported that 1.1 million gallons were pumped from this station for the month of July. This contributed to 3.9% of the town water.
- 3.6 Discuss/Review Rates and fees. It was agreed that the legalities need to be checked regarding increases. TM suggested someone from the finance committee review the increases. TM suggested that a professional rate study be completed. TM suggested that DV reach out to a few companies to gather quotes for an independent rate study.
- 3.7 Update/Discuss Emergency response vehicle. The bid is posted on CommBuys.

IV. COMMISSIONERS UPDATES AND REPORTS-VOTES MAY BE TAKEN:

- 4.1 TM addition: Selectmen meeting went well. They discussed supporting, as a Board, funding for the treatment plant.

V. LIASON UPDATES AND REPORTS-VOTES MAY BE TAKEN:

- 5.1 CSD suggested that an email be sent to chairs of the boards for a multi board meeting about the wetland's protection. TM requested that Mistie send an email proposing dates and times using Doodle Poll.

VI. SUPERINTENDENT'S UPDATES AND REPORTS-VOTES MAY BE TAKEN:

- 6.1 Update/Discuss Main Street Station. Filing a WS20 final application for putting the well in. Bid in September for work starting in October. The project should be done in Spring 2022.
- 6.2 Update/Discuss Highland Storage Tank. Insulation is being installed in the shed, then the plumbing will be brought up into the shed.
- 6.3 Update/Discuss Employee education. Ryan has submitted for his T2 (OIT), Alec passed the T2 course, Mistie and Kevin are scheduled for the T2 in September. Kevin has backflow certification with the intention of bringing that in-house. Mistie and Dave will be taking a procurement course in the future.
- 6.4 Update/Discuss 12 South St-Deluxe. Pond water flows through the connecting pipes to the fire suppression system. They have been sent a letter and need to be brought into compliance.
- 6.5 Update/Discuss Summer intern program. Within 75-100 hydrants left. TM requested any training decisions and additional benefits needs to be run by the board first.
- 6.6 Update/Discuss Meter exchange program. Up to nearly 250 meters have been changed. 1 touchpad is remaining, but it scheduled for replacement. Schools will be finished this week. Water pumping is down 12% along with a \$200,000 increase in revenue because of upgrading meters and repairing leaks.

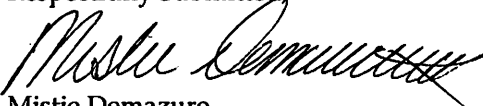
VII. OFFICE ADMINISTRATOR'S UPDATES AND REPORTS-VOTES MAY BE TAKEN:

- 7.1 The next Board of Water Commissioners meeting is scheduled for Monday, September 13 at 7:00 PM. The site walk for 169 Main St and Greely is scheduled for Friday, August 13, 2021, at 5:00 PM.
- 7.2 CJ motioned to review and sign July's end of month reports out of session. MM seconded. Unanimous vote.

ADJOURNMENT:

TM motioned to adjourn the Board of Water commissioners at 10:05 PM. CJ seconded. Unanimous vote.

Respectfully Submitted,

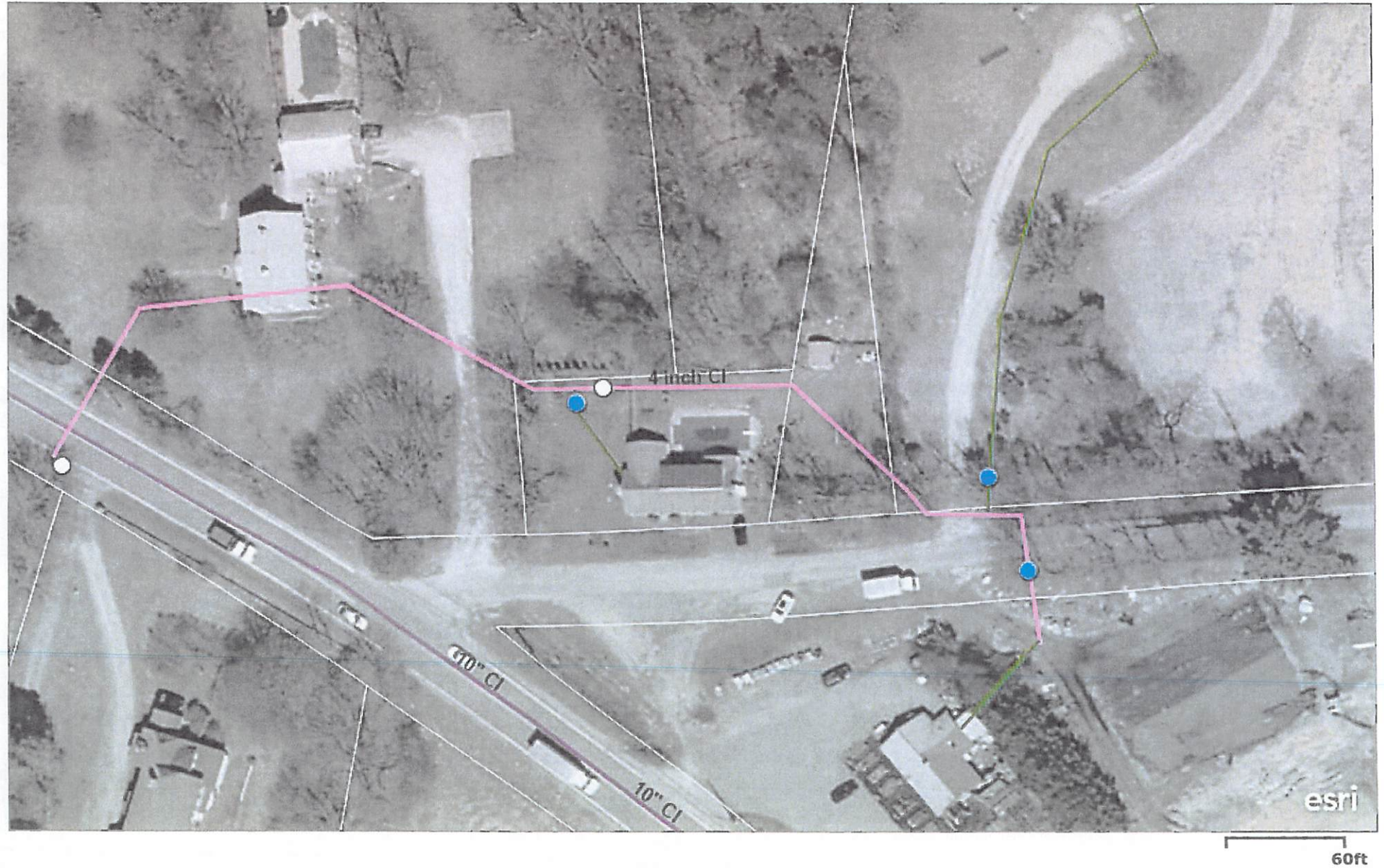


Mistie Demazure

Accounts Manager

Townsend Water Department

Townsend Water



3.3

Middlesex South Registry of Deeds
Electronically Recorded Document

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Recording Information

Document Number	: 207569
Document Type	: DEED
Recorded Date	: November 06, 2020
Recorded Time	: 02:15:54 PM
Recorded Book and Page	: 76107 / 87
Number of Pages(including cover sheet)	: 5
Receipt Number	: 2550742
Recording Fee (including excise)	: \$155.00

MASSACHUSETTS EXCISE TAX
Southern Middlesex District ROD # 001
Date: 11/06/2020 02:15 PM
Ctrl# Doc# 00207569
Fee: \$.00 Cons: \$1.00

Middlesex South Registry of Deeds
Maria C. Curtatone, Register
208 Cambridge Street
Cambridge, MA 02141
617-679-6300
www.middlesexsouthregistry.com

(Space above this line reserved for Registry of Deeds use)

QUITCLAIM DEED

We, David J. Werlin and Beverly L. Napior, Husband and Wife, of 169 Main Street, Townsend, MA

for consideration paid and in full consideration of ONE AND NO/100 (\$1.00) DOLLARS

grant to David J. Werlin and Beverly L. Napior, Trustees of the Werlin - Napior Realty Trust - 2020 under Agreement of Trust dated 10/23, 2020 to be recorded herewith, of 169 Main Street, Townsend, MA

with QUITCLAIM covenants

PARCEL I

A certain parcel of land more particularly bounded and described and made part hereof.

A certain parcel of land with the buildings thereon situated on the Northerly side of Main Street, which was formerly known as the road leading from Townsend Center to Townsend Harbor, in Townsend, Middlesex County, Massachusetts, more accurately bounded and described as follows:

BEGINNING at the Southeasterly corner of the premises on said street and at land now or formerly of Helen P. Fessenden; thence running

NORTH 11 ° 17' East by and along a stone wan and said Fessenden land Eighty-five (85) feet to a stone bound; thence

Locus: 169 Main Street, Townsend, MA

SOUTH 77° 24' East by and along said Fessenden land Ninety-five and 95/100 (95.95) feet to the end of a stone wall; thence

NORTH 04° 07' 46" East by and along other land of Alice R. Bagley One Hundred Eleven and 09/100 (111.09) feet to a drill hole in a stone at the end of the wall; thence

NORTH 10° 36' 07" East One Hundred Thirty-two and 76/100 (132.76) feet to a stone bound; thence

NORTH 18° 43' 00" East Two Hundred Twenty-two and 10/100 (222.10) feet to a stone bound; thence

NORTH 13° 51' 00" East Four Hundred Twenty-six (426) feet to a stone bound; thence

NORTH 75° 49' 09" West Five Hundred Fifty-three and 77/100 (553.77) feet to a stone bound on line of land now or formerly of Eliab Going; the last four above named courses being by remaining land of Alice R. Bagley; thence

SOUTH 13° 59' West by land now or formerly of said Going Four Hundred Seventy-eight and 15/100 (478.15) feet to a stone bound; thence

SOUTH 51° 41' 57" East by land formerly of Coleman One Hundred Sixty (160) feet to a corner in a stone wall; thence

SOUTH 04° 31' 40" West by and along the wall and land formerly of John Spaulding Three Hundred Thirty-five (335) feet to the end of the wall on the Northerly side of said Main Street; then running in an

EASTERLY direction by and along the Northerly side of said street Two Hundred Eighty-Five feet to the point of beginning.

The above described premises containing Ten and 2/10 (10.2) acres, be the same more or less and being shown on a Plan of Land in Townsend, Massachusetts owned by said Alice R. Bagley, which plan is dated September 2, 1965, by Merrill A. Brown, Civil Eng. & Surveyor recorded with the Middlesex South District Registry of Deeds in Book 10933, Page 65.

Being the same premises conveyed to Louis M. Nordlinger and Lorraine Nordlinger, as tenants by the entirety, by deed of Alice R. Bagley dated September 13, 1965 and recorded with said Deeds in Book 10933, Page 65.

PARCEL II

A certain parcel of land located on the northerly side of Main Street in Townsend, Middlesex County, Massachusetts, shown as Parcel "A" on a plan of land entitled "Plan of Land in Townsend, Mass. Prepared for JESH Realty Trust, Scale 1" = 40', June, 2007, David E. Ross Associates, Inc.", recorded with Middlesex South District Registry of Deeds as Plan Number 725 of 2007, and being more particularly bounded and described according to said plan as follows:

Beginning at a point on the northerly side of said Main Street; thence

North 50° 06' 00" West along Main Street 171.54 feet to a point; thence

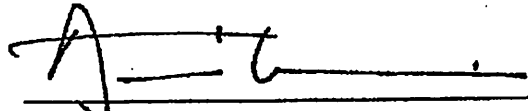
North 83° 53' 22" East by Lot 1 as shown on said plan, 136.76 feet to a point; thence

South 2° 00' 44" West by land of David J. Werlin 124.67 feet to the point of beginning.

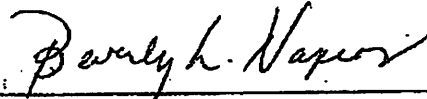
Parcel "A" contains 8,439 square feet of land according to said plan.

For Grantors' title see deeds recorded with the Middlesex South Registry of Deeds in Book 26771, Page 073 and Book 49912, Page 223.

EXECUTED as an instrument under seal this 29 day of October, 2020.



David J. Werlin

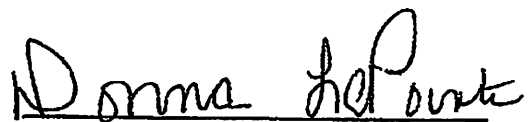


Beverly L. Napior

COMMONWEALTH OF MASSACHUSETTS

County of Worcester

On this 29 day of Oct, 2020, before me, the undersigned notary public, personally appeared David J. Werlin and Beverly L. Napior proved to me through satisfactory evidence of identification, which was [☒] a driver's license and/or [] _____ to be the persons whose names are signed on the preceding or attached document, and acknowledged to me that they signed it voluntarily for its stated purpose.

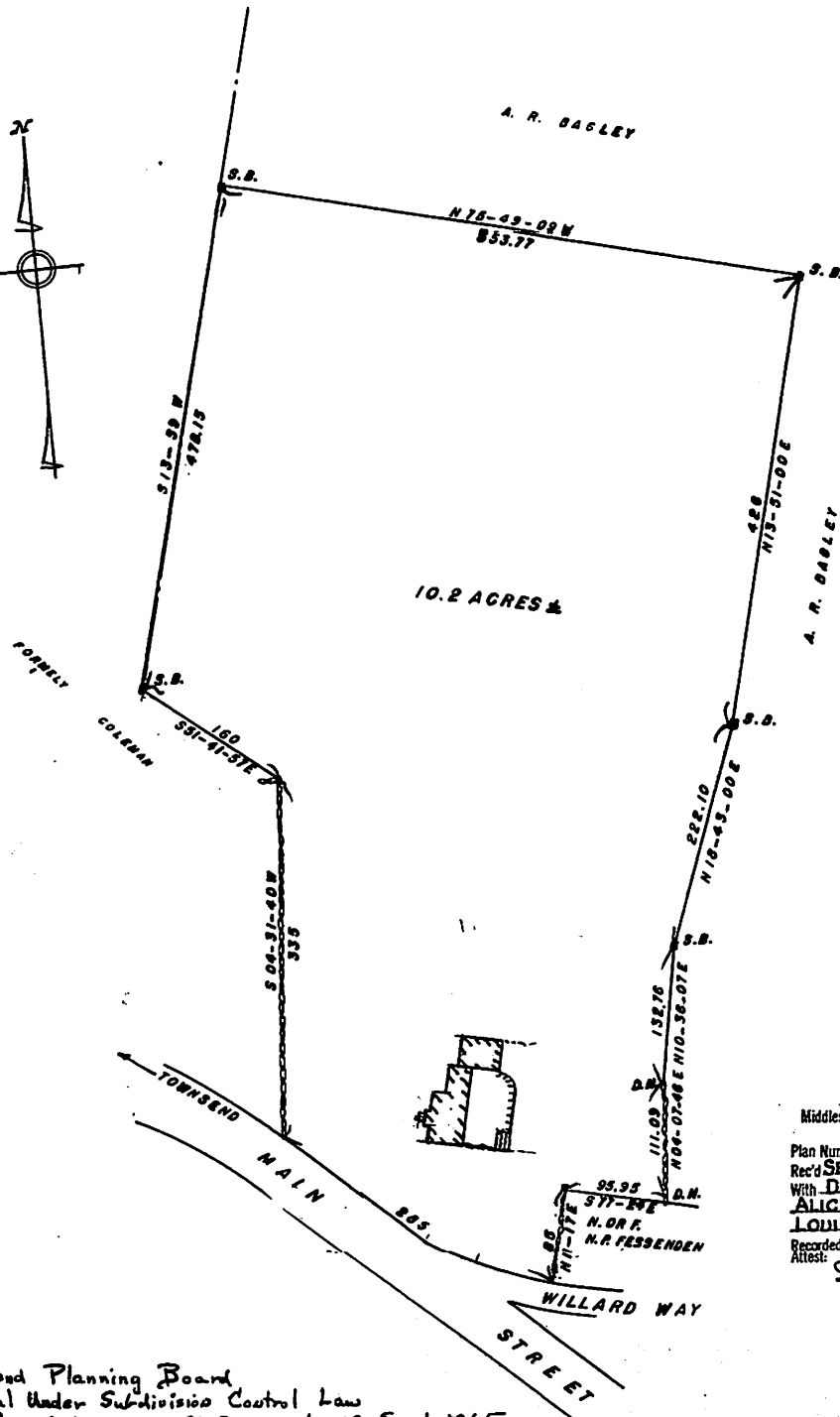


Notary Public:

My Commission Expires:



DONNA L. LAPOINTE
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 11, 2021



SEE 6.00
BY N.I.

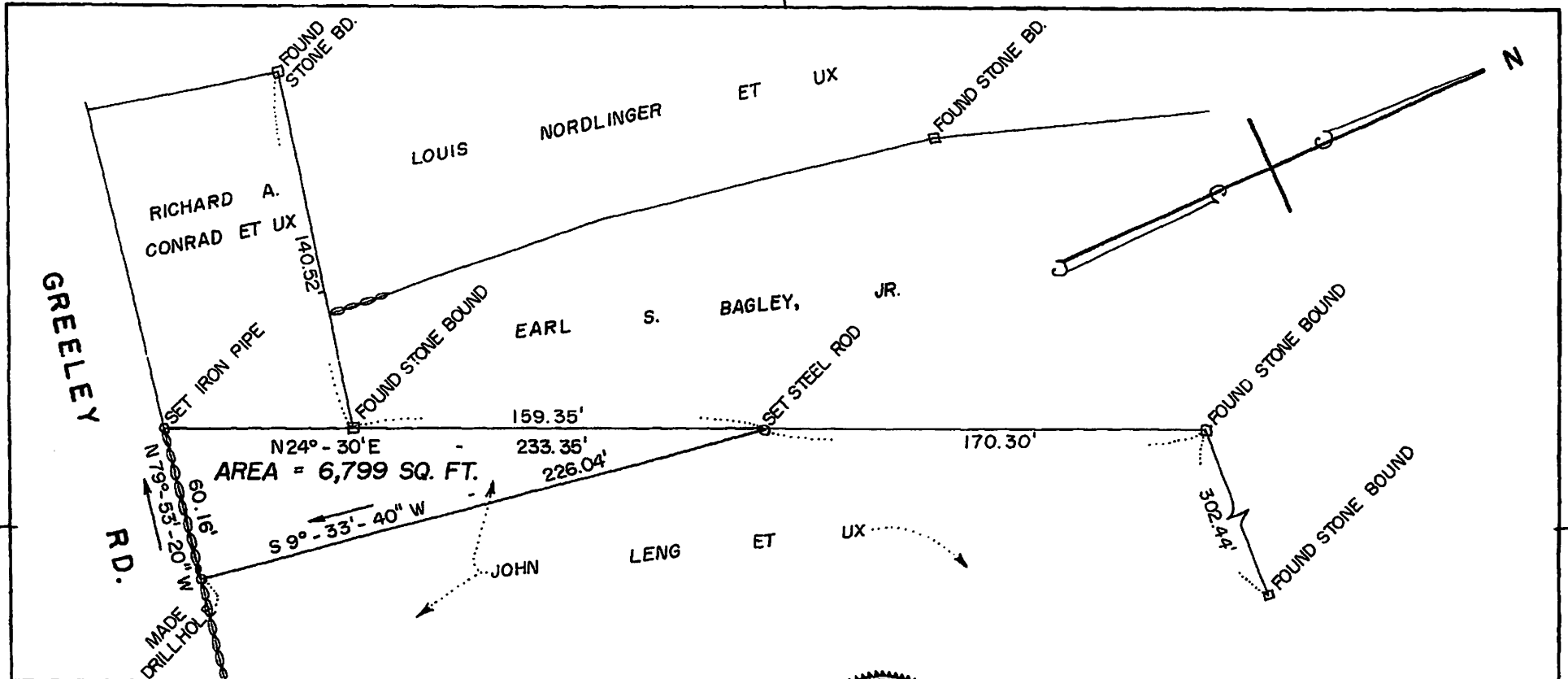
Middlesex Registry of Deeds, So. Dist.
CAMBRIDGE, MASS.
Plan Number 1171 of 1965
Rec'd SEPT. 17, 1965 at 2:16 P.M.
With DEED Doc. No. 350
ALICE R. BAGLEY
LOUIS M. NORDLINGER ET UX.
Recorded Book 10933 Page 65
Attest: *[Signature]* REGISTER

Townsend Planning Board
Approval Under Subdivision Control Law
Not Required c41 581-P Date 13 Sept. 1965
[Signatures]



PLAN OF LAND
IN
TOWNSEND, MASS.
OWNED BY
ALICE R. BAGLEY
SCALE 1"=80' - SEPTEMBER 1965
MERRILL A. BROWN
CIVIL ENGINEER & SURVEYOR
WEARE, N.H.

145
4124



Plan Number 864 of 1976
 Rec'd AUG. 5 1976 at 1:44 PM
 With DEED, Doc. No. 195
 JOHN LENG ET UX
 RICHARD A. CONRAD ET UX
 Recorded, Book 3031 Page 361

Attest: *John T. [Signature]*
 m800
 BY R
 Register

Cambridge, Mass.
 Cambridge, Mass.

I CERTIFY THAT THIS PLAN MEETS WITH
 REGULATIONS OF REGISTERS OF DEEDS.



TOWNSEND PLANNING BOARD

APPROVAL UNDER THE SUBDIVISION CONTROL LAW

DATE: 28 July 76 NOT REQUIRED.

MEMBERS: *Hugh Fowler Chairman*

John M. Williams
Martha M. Devine

LAND IN TOWNSEND, MASS.

- TO BE CONVEYED TO -

RICHARD A. CONRAD ET UX

40 0 40 80

JULY 23, 1976

WILLIAM R. BINGHAM & ASSOC.-REG. ENGRS. & SURVEYORS
 24 COLUMBIA ST. - LEOMINSTER, MASS.

864

I, Pamela P. Boynton, Trustee of Boynton-Blanchette Realty Trust
u/d/t dated December 30, 1986 and recorded with M.S.D.D.'s in Book 17724,
Page 175 of Groton, Middlesex County, Massachusetts

25.80

~~being married~~ for consideration paid, and in full consideration of One (\$1.00) Dollar

437

grant to Frank Blanchette and Martha Blanchette, husband and wife
as joint tenants with the right of survivorship, both
of 1 Greeley Road, Townsend, MA 01469

with quitclaim covenants

MSD 07/09/92 12:31:56

~~the land is~~

[Description and encumbrances, if any]

The land in said Townsend with the buildings thereon, situated on
the Northerly side of the road leading from Townsend Centre to the
house of Carl B. Willard, bounded and described as follows:

BEGINNING: on the Northerly side of said road at a point forty-
Nine (49) feet West of the house on the dwelling
house on the premises:

THENCE: Northerly by and to the end of a stone wall now
standing Forty-Nine (49) feet from a point in said
wall made by intersection of the line of the South
side of the dwelling house on the premises with said
wall;

THENCE: Easterly parallel with the South side of the said
house One Hundred (100) feet to the wall between the
premises and land late of Eri Lewis, now or formerly
of Robert G. Fessenden;

THENCE: Southerly by said wall to the aforesaid road;

THENCE: Westerly one Hundred (100) feet to the point of
beginning.

Containing about 5,000 square feet, more or less.

Also the land in or near the central part of said Townsend on the
Northerly side of a road leading from the State Highway (Route 119)
to the Carl B. Willard residence, and bounded as follows:

BEGINNING: at the Southeasterly corner of the granted premises
at a corner of land now or formerly of said Willard
at an iron pipe located twenty and 1/2 (20.5) feet
Easterly from the Southeasterly corner of the
dwelling house now or formerly of Helen P.
Fessenden;

THENCE: North 25 degrees 20' East by said Willard land
seventy-four (74) feet to an iron pipe at corner of
land of now or formerly of Elmer A. Onthank, et ux;

THENCE: North 76 degrees 20' West by last named land One
Hundred Forty and 1/2 (140.5) feet to an iron pipe;

THENCE: South 13 degrees 25' West by last named land twenty-
five (25) feet to a corner of land now or formerly
of Helen P. Fessenden, at the end of a stone wall;

THENCE: South 76 degrees 20' East by Helen P. Fessenden's
land to the Northerly side of the aforesaid road.

1 Greeley Road
Townsend, MA

Witness my hand and seal this 6th day of July, 1992.

Pamela P. Boynton
Pamela P. Boynton, Trustee of
Boynton-Blanchette Realty Trust

The Commonwealth of Massachusetts

Middlesex

ss.

July 6, 1992

Then personally appeared the above named
aforesaid

Pamela P. Boynton, Trustee as

and acknowledged the foregoing instrument to be

her free act and deed, before me

MCL

Notary Public—~~James M. Sullivan~~

My commission expires 6/28 1996

CHAPTER 183 SEC. 6 AS AMENDED BY CHAPTER 497 OF 1969

Every deed presented for record shall contain or have endorsed upon it the full name, residence and post office address of the grantee and a recital of the amount of the full consideration thereof in dollars or the nature of the other consideration therefor, if not delivered for a specific monetary sum. The full consideration shall mean the total price for the conveyance without deduction for any liens or encumbrances assumed by the grantee or remaining thereon. All such endorsements and recitals shall be recorded as part of the deed. Failure to comply with this section shall not affect the validity of any deed. No register of deeds shall accept a deed for recording unless it is in compliance with the requirements of this section.

THENCE: Easterly by the Northerly side of said road twenty-five (25) feet to the point of beginning.

Also the land in the central part of Townsend on the Northerly side of Greeley Road, being the triangular piece marked AREA=6,799 sq. ft. shown on a plan of land in Townsend, Mass. to be conveyed to Richard Conrad, et ux, drawn by William R. Bingham & Assoc. - Reg. Engrs. & Surveyors, dated July 23, 1976, and recorded at Book 13031, Page 361 and described as follows:

BEGINNING: At a drill hole in a stone wall at the Southwest corner of land of John & Claire L. Leng and following the wall as it runs along the Northerly side of Greeley Road for sixty and 16/100ths feet, to an iron pipe set at the end of the stone wall where it meets with the present boundary of the land now or formerly of Richard A. Conrad, et ux;

THENCE: Turning and running Northeast a distance of seventy-four feet along land of said Conrad to a stone bound, continuing the same course by land of Earl S. Bagley, Jr. an additional one hundred fifty-nine and 35/100ths feet to a steel rod;

THENCE: turning and running Southwest by land of the grantors two hundred and twenty-six and 04/100ths feet to the point of beginning.

Meaning and intending to convey, and hereby conveying, those same premises described in Deed of Pamela P. Boynton et als to Pamela P. Boynton as Trustee of Boynton-Blanchette Realty Trust, dated December 30, 1986, and recorded with Middlesex South District Deeds in Book 17724, Page 182.

2

QUITCLAIM DEED

I, CANDACE J. GREGOIRE,

of Townsend, Middlesex County, Massachusetts,
for consideration of LESS THAN ONE (\$1.00) DOLLAR

grant to JOHN D. BAGLEY

of 3 Greeley Road, Townsend, MA 01469

WITH QUITCLAIM COVENANTS

A certain parcel of land with any buildings thereon situated on the northerly side of Greeley Road and on the westerly side of Old Meetinghouse Road, in Townsend, Middlesex County, Massachusetts shown as Lot 2A on a plan entitled "Plan of Land in Townsend, Massachusetts, Scale 1 in. = 40 ft., July, 1991, prepared for John Leng, Joseph R. Henry & Associates, Inc., Harvard, Massachusetts", and being more particularly bounded and described according to said plan as follows:

BEGINNING at a point on the northerly side of Greeley Road, thence
NORTH 81° 45' 40" WEST along Greeley Road as shown on said plan,
288.02 feet to a point; thence

NORTH 07° 52' 10" EAST by land of Pamela P. Boynton as shown on
said plan, 226.55 feet to a point; thence

NORTH 22° 47' 00" EAST by land of Earl S. Bagley, Jr. as shown on
said plan, 170.34 feet to a point; thence

SOUTH 87° 42' 40" EAST by said Bagley land as shown on said plan
302.50 feet to a point; thence

SOUTH 08° 07' 40" WEST along Old Meetinghouse Hill Road as shown on
said plan, 125.50 feet to a point; thence

SOUTH 03° 05' 10" WEST by said Old Meetinghouse Hill Road 163.92
feet to a point; thence

SOUTH 35° 31' 29" EAST by PCL A as shown on said plan, 150.81 feet
to the point of beginning.

Lot 2A containing 3.08 acres of land according to said plan.

property address: 3 Greeley Road, Townsend, MA

RETURN TO:
ABABBITT
PO BOX 1340
PEPPERELL MA 01463



Bk: 44048 Pg: 240 Doc: DEED
Page: 1 of 2 11/05/2004 12:12 PM

Meaning and intending hereby to convey the same premises as described in a deed from John D. Bagley to Candace J. Gregoire dated September 25, 2003 and recorded with Middlesex South District Registry of Deeds, at Book 41095, Page 352, however the same may be described.

WITNESS my hand and seal this 25 day of OCTOBER, 2004

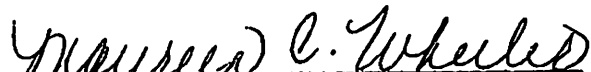

CANDACE J. GREGOIRE

COMMONWEALTH OF MASSACHUSETTS

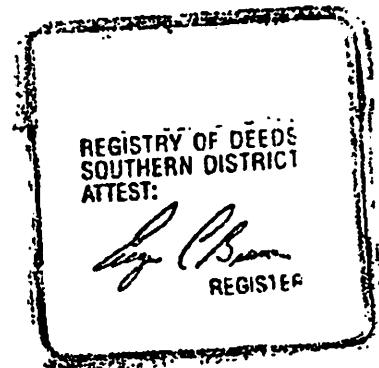
Middlesex, ss.

Date: OCT. 25, 2004

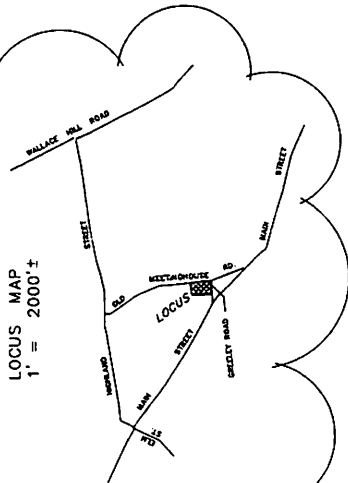
Then personally appeared the above-named Candace J. Gregoire and acknowledged the foregoing instrument to be her free act and deed, before me


Notary Public

My commission expires: 8-22-08



LOCUS MAP
1" = 2000'



PLAN No. 864 of 1976

EARLE S. BAGLEY, JR.
BK. 12127 PG. 631

EARLE S. BAGLEY, JR.
BK. 12127 PG. 631

PAMELA P. BOWTON
BK. 17724 PG. 182

LOT 2A
3.08 ACRES

OLD MEETINGHOUSE ROAD

AKA MEETINGHOUSE HILL ROAD

GREELEY ROAD

MAIN STREET
RTE 119

ZONE LINE

APPROVAL NOT REQUIRED UNDER
THE SUBDIVISION CONTROL LAW

TOWNSEND PLANNING BOARD

RESERVED FOR REGISTRY USE

MASSACHUSETTS REGISTRY OF DEEDS

RECORDING OFFICE

DATE: 07-26-1991

RECORD OWNER: JOHN LENG

DEED REFERENCE: BK. 13316 PG. 232

PLAN REFERENCE: PLAN 1-G-46 BY BINGHAM & ASSOC.

ASSESSORS REFERENCE: MAP 26 PARCEL 35

ZONING CLASSIFICATION: RESIDENTIAL B DISTRICT

NOTES: PARCEL A, AS SHOWN HEREON IS

THIS PLAN IS A DIVISION OF LOT

JULY 29, 1982 BY BINGHAM &

ASSOC. AND IS NOT THE RESULT

OF AN ON THE GROUND SURVEY.

I CERTIFY THAT THIS PLAN CONFORMS

TO THE RULES AND REGULATIONS OF

THE REGISTERS OF DEEDS OF THE

COMMONWEALTH OF MASSACHUSETTS

DATE: 07-26-1991

PLAN OF LAND IN

TOWNSEND, MASSACHUSETTS

SCALE 1" = 40' 11"

PREPARED FOR: JOHN LENG

JOSEPH R. HENRY & ASSOCIATES, INC.

6 LANCASTER COUNTY ROAD

HARVARD, MASSACHUSETTS 01451

(508) 772 - 9186

CIVIL ENGINEERS LAND SURVEYORS

LANDSCAPE ARCHITECTS ENVIRONMENTAL CONSULTANTS

FILE No. 595

PLAN No. 595-A



QUITCLAIM DEED

We, **Charles I. Wilkins and Maryann E. Wilkins**, of 155 Main Street, Townsend, Middlesex County, Massachusetts, for consideration of One (\$1.00) Dollar.

Grant to **Charles I. Wilkins**, with quitclaim covenants

A certain parcel of land with the buildings thereon situated on Main Street, Greeley Road and Meetinghouse Hill Road, Townsend, Middlesex County, Massachusetts, about one mile easterly of Townsend Center; and

Bounded on the South by the County Road leading from Townsend Harbor to Townsend Center, now known as Main Street;

On the West and North by the Town Way leading from the dwelling house now or formerly of Marshall Higgins to the dwelling house on the premises, now known as Greeley Road; and

On the East by the Town Way leading from the dwelling house on the premises to the Road first mentioned, now known as Meetinghouse Hill Road; and

Containing about five acres of land.

Being all the same premises and interest conveyed to us by deed of Jal J. Mugaseth and Karen Schwartz, n/k/a/ Karen Priest, dated January 7, 2005, and recorded in said Registry of Deeds at Book 44459, Page 71.

Witness our hands and seals this 2nd day of February, 2009.

Charles I. Wilkins

Maryann E. Wilkins

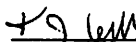
Return: Charles Wilkins
155 Main St.
Townsend MA 01469

155 Main Street, Townsend, MA 01469

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

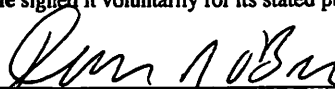
On this 2nd day of February, 2009, before me, the undersigned notary public, personally appeared **Charles I. Wilkins**, proved to me through satisfactory evidence of identification, which was license to be the persons whose names are signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.


Notary Public: ~~Randall S. Barron~~ Karen J. LavittMy Commission Expires: ~~1/29/10~~ 8/2/09

COMMONWEALTH OF MASSACHUSETTS

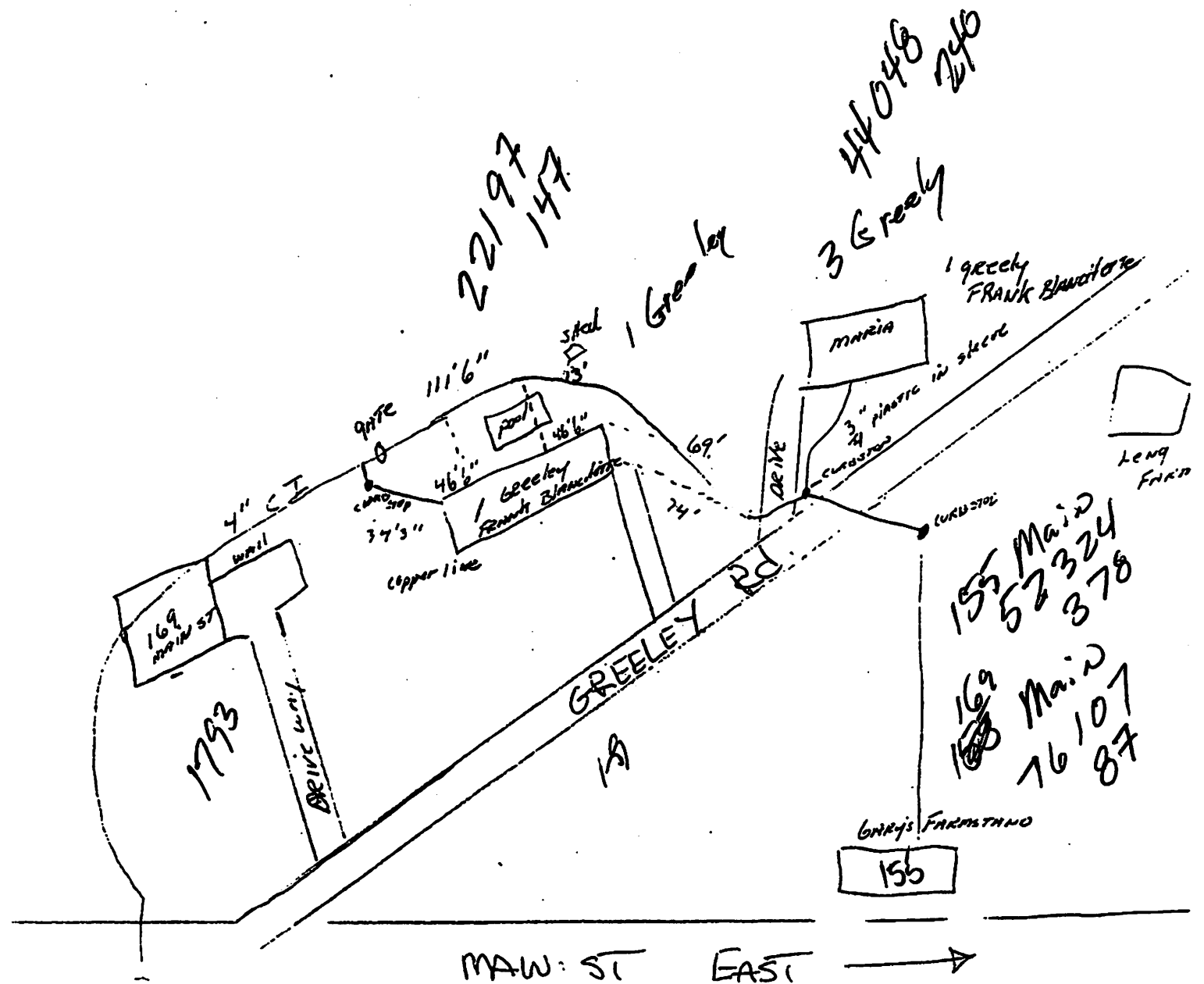
Middlesex, ss.

On this 2nd day of February, 2009, before me, the undersigned notary public, personally appeared **Maryann E. Wilkins**, proved to me through satisfactory evidence of identification, which was Mt. D.L. to be the persons whose names are signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose.


Notary Public: ~~Randall S. Barron~~ Desiree A. O'BrienMy Commission Expires: ~~1/29/10~~ Nov. 25, 2015

REGISTRY OF DEEDS
SOUTHERN DISTRICT
ATTEST:


REGISTER



NAME: FRANK BLANCHETTE STREET: 1 GREELEY ROAD		<u>SERVICE INFO</u> Main to Curb: Curb to Meter	<u>"REMARKS"</u> 8/12/13/97 RELOCATED 3" LINE
TYPE METER: SENSUS 584727967 REG.# 10974938		ACCT. NUMBER: 1119	
TYPE CURB STOP:			
MAIN SIZE: 4" CI TYPE: DEPTH: 3 1/2"			

NAME: DAVID J. WERLIN STREET: 169 MAIN ST.		<u>SERVICE INFO</u> Main to Curb: Curb to Meter		<u>"REMARKS"</u> Note! Leak Repaired on 3 1/2" C.I. to Nordingers 12-31-87 "New Couplings DEPTH 4'
TYPE METER: SEAS 0257841025 REG # 13836946		ACCT. NUMBER 1120		
TYPE CURB STOP: WHEEL GATE 18				
MAIN SIZE: 10" DEPTH: 4'6"		TYPE: CZ.		

DRIVEWAY

MAIN ST.

2'6"

2'6"

TEL. POLE #

DRIVEWAY

1 GREELEY RD. TO 167 MAIN AND LENS

DRIVEWAY

TEL. POLE #

STONE

TEL. POLE #

3 1/2" CAST IRON

2 COUPLINGS

REPAIRED 12-31-87

2" COPPER WHEEL GATE

TOWNSEND WATER DEPARTMENT
RULES, REGULATIONS AND RATES

3.2

SECTION 1
APPLICATIONS

- 1.1 Applications for water service shall be made to the Water Commissioners by the owner of the property for which the same is desired at the scheduled Water Commissioners meeting. Applications will not be accepted between November 1st and April 1st or at the discretion of the Water Commissioners.

SECTION 2
SERVICE CONNECTIONS

- 2.1 A service connection betterment fee charge will be assessed for each new service. Connection charges may be paid in installments of no less than \$50.00 per quarter, to be included in the quarterly bills. All outstanding balances must be paid upon the sale of the property.
~~A two hundred dollar (\$200.00) per hour fee will be charged for each new service tapped into the main. This charge will cover the cost of digging, tapping the main, laying the standard 1" service to the customer's property line and the cost and installation of a 5/8 x 3/4 inch meter when the distance to the property line is not over fifty (50) feet. Where larger services and meters are desired or needed, charges will be the cost of the meter plus cost of labor and materials to the property line. There will be an additional charge for any unforeseen cost such as cutting and resurfacing the road, police officer charges, etc. (Approved by BOWC April 6, 2020)~~
- 2.2 The customer will be responsible for the cost of maintaining said service at all times.
- 2.3 No drain or sewer lines shall be laid nearer than ten (10) feet to the water service pipes.
- 2.4 Repairs between the curb stop and the main will be made by the Water Department. Installation and repairs between the curbstop and the inlet side of the water meter can be made by the Water Department or an outside contractor. The customer will be charged by the Water Department for equipment, labor and materials used or provided to the contractor. Work performed and materials used by outside contractors shall strictly conform to the Townsend Water Department specifications. All service installations whether new, replaced or repaired shall be inspected by a Water Department Technician or Superintendent prior to backfilling. Outside contractors installing or replacing services shall provide a clear and, legible AS BUILT drawing illustrating the location of the following:
- Curbstop
 - Connectors
 - Meter Pits
 - Size of service line and sleeve
 - Obstruction/s causing an alternate route of the service
 - Location where the service enters the building
- All AS BUILT drawings shall have a minimum of two (2) ties from permanent structures (i.e. building corners, hydrants, gate covers, manhole covers, catch basins and, property bound posts. See Attachment A, example of Asbuilt Drawing Approved by BOWC on 3/9/2015
- 2.5 Services over Four Hundred and Seventy Five (475) feet from the property line require a meter pit.
- 2.6 Connection Charges made at the time of application are as shown on the Rate -Fee Schedule.
Connection Charges made at the time of application are as follows:

Size of Service	Cost
1"	\$2,500.00
1 1/2"	\$3,500.00
2"	\$8,000.00

~~Main or Sprinkler Connection Charges (per connection) \$5,000.00~~

- 2.7 All services replaced, repaired or changed in any way shall be brought up to current standards.
- 2.8 No new services shall be approved if any outstanding fees, charges or taxes are owed to the Water Department or the Town of Townsend.
- 2.9 No service installations allowed unless the property abuts an existing main.
- 2.10 No taps allowed off of existing services.

SECTION 3 METERS

- 3.1 All services shall be metered. Meters will be furnished, set and renewed by the Water Department; provided, however, that any meter injured through the negligence of the water taker shall be repaired at the water taker's expense. The water taker is responsible for protecting the meter from frost damage.
- 3.2 Evidence of meter tampering is unlawful and will result in a \$1,000.00 fine (see Rate Fee Schedule). In addition, water usage will be estimated for that billing period and homeowner will be charged for labor and materials.
- 3.3 Special meters over and above the minimum requirement to measure the use of water will be furnished as needed and the additional cost of the meter will be charged to the water taker.
- 3.4 All meters installed become the property of the Water Department, and all repairs thereto will be made by the Water Department. If a meter installed on the customer's property is stolen, damaged by freezing fire or otherwise, cost of repairs or replacement will be charge to the customer.
- 3.5 All compound meters to be removed, tested and rebuilt every 8-10 years at the expense of the water taker, as recommend by the manufacturer.
- 3.6 Removal, tampering or malicious damage to the Water Department property will be prosecuted by law.
- 3.7 Customers shall allow access to the water meter at all reasonable times. Adequate space around the meter shall be maintained at all times to provide Water Department personnel the ability to use all tools necessary to install, repair, replace or upgrade the water meter without obstruction. ~~Failure by customers to arrange and provide access to the water meter after repeated attempts by the Water Department to schedule an appointment by phone, email or, mail to perform the work previously described shall constitute a violation of this section. A violation of this section may result in an additional \$50.00 to the customer's bill.~~
- 3.8 Failure by customers to arrange and provide access to the water meter after repeated attempts by the Water Department to schedule an appointment by phone, email or, mail to perform the work previously described shall constitute a violation of this section. A violation of this section may result in an additional \$50.00 fee to the customer's bill.

Approved by Board of Water Commissioners on 4/11/2016

SECTION 4

ACCESS TO PREMISES

- 4.1 All apparatus, buildings and dwellings supplied with water must be made accessible at all reasonable times to the inspection of the Superintendent or other agents of the Water Department.

SECTION 5 SHUTTING OFF WATER

- 5.1 The Water Commissioners reserve the right to shut off water for:
- 1.) The purpose of making repairs or alterations.
 - 2.) Disregard of rules and regulations.
 - 3.) Non-payment of bills.
 - 4.) Backflow Failure
- 5.2 No connection will be made from an existing supply to another dwelling except by special permit from the Board of Water Commissioners and if found out doing so without a permit the service will be shut off.
- 5.3 The Town of Townsend acknowledges no liability for the explosion, collapse or injury to hot water boilers or other connections resulting from the loss of water pressure or the shutting off of water from the street mains.

SECTION 6 FROZEN WATER SERVICE

- 6.1 A charge, to be determined by the Superintendent, will be made for thawing frozen water pipes.

~~SECTION 7 TRAILERS~~

- ~~7.1 A meter pit is required for any type of trailer, which is to be used for dwelling purposes, same as a standard house service.~~

SECTION 8 WATER RATES

- 8.1 Charges will be ~~calculated as follows:~~ assessed as show on the Rate -Fee Schedule.

~~Minimum charge of \$37.50 per unit~~

~~\$4.32 per hundred cubic feet. (748 gallons)~~

~~(Approved by BOWC April 6, 2020)~~

~~Minimum charge of \$37.50 per unit.~~

~~\$5.36 per one thousand gallons.~~

A Unit shall be defined as: a dwelling unit consisting of one or more rooms with cooking, living, sanitary and sleeping facilities arranged for the use of one or more persons living together as a single housekeeping unit.

1 Dwelling Unit — 1 Unit

2 Dwelling Units — 2 Units, etc.

Apartment House — each apartment is 1 Unit

Trailer Park — Each trailer is 1 Unit

Business Establishment — each business is 1 Unit

Accessory Apartment — Each accessory apartment is 1 unit

Sprinkler Connections charged according to size, at a rate of \$35.00 per inch for a six month period.

- 8.2 A Unit shall be defined as: a dwelling unit consisting of one or more rooms with cooking, living, sanitary and sleeping facilities arranged for the use of one or more persons living together as a single housekeeping unit.

1 Dwelling Unit - 1 Unit

2 Dwelling Units — 2 Units, etc.

Apartment House — each apartment is 1 Unit

Trailer Park - Each trailer is 1 Unit

Business Establishment — each business is 1 Unit

Accessory Apartment – Each accessory apartment is 1 Unit

- 8.3 If a meter fails to register correctly the customer will be charged an estimated bill determined by using three previous seasonal (winter/summer) readings and taking the average amount of usage.

SECTION 9 WATER BILLS

- 9.1 Water bills are mailed quarterly in January, April, July and October of each year. ~~An overdue notice of payment due will be sent out to water takers whose bill remains unpaid by the end of the month in which the first bill is rendered. There shall be added to the amount due a One Dollar (\$1.00) Demand Charge per unit, plus a one and one half percent (1 1/2 % Minimum of \$.50). If the bill remains unpaid for fifteen (15) days following rendering of the overdue notice the Water Commissioners may, at their discretion, order the Superintendent to shut off the water service, after shut off procedures have been followed under Sec I IA, Chapter 165 of the Massachusetts General Laws, until such time as the bill is paid in full and a Turn on Fee of Fifty Dollars (\$50.00) is paid.~~
- 9.2 There shall be added to the amount due a one- and one-half percent monthly interest rate, accruing daily, for all outstanding balances beyond the due date. If the bill remains unpaid for thirty (30) days the Superintendent may, at their discretion, shut off the water service. After shut off procedures have been followed under Sec I IA, Chapter 165 of the Massachusetts General Laws, until such time as the bill is paid in full and a Turn on Fee is paid.
- 9.2 All outstanding balances accumulated water charges plus demands and interest, with no payment received for more than three (3) billing periods constitute a lien on the property and may be turned over to the tax collector for collection.
- 9.3 All bills for the supply of water services shall be rendered to the recorded owner of the premises Failure of the owner to receive a water bill does not relieve him from the obligation of

his payment, nor from the consequences of non-payment.

- 9.4 ~~If for any reason other than mechanical or electronically the meter reader cannot obtain a reading, the customer may be furnished with a postcard on which they are to record the meter reading and return it by mail to the Water Department. Failure to do so within one week may result in the issuance of an estimated bill for that billing period.~~
- 9.5 ~~Any buildings with ten (10) or more dwelling units, on a single meter, may submit a report for vacant units each billing period and that the unit charge for that unit/billing period may be suspended from the total billing charge. (approved 2/13/2012)~~

SECTION 10 DISCONTINUANCE OF WATER

- 10.1 Customers desiring to discontinue water service shall notify the Superintendent of the Water Department in writing at least three (3) days before the water is to be turned off. A service charge of ~~Fifty Dollars (\$50.00)~~ shall be charged each time the water is turned on ~~(see Rate Fee Schedule).~~

(Approved by BOWC April 6, 2020)

SECTION 11 TRANSFER OF OWNERSHIP

- 11.1 In the event of a transfer of ownership of the premises being supplied with water, the seller shall notify the Water Department in writing of such transfer. All bills issued to the seller and not paid at the time of transfer will become the responsibility of the new owner. ~~There will be a minimum closing charge of Fifty Dollars (\$50.00) for a final meter reading.~~ Charges are shown on the Rate-Fee Schedule.

(Approved by BOWC April 6, 2020)

SECTION 12 WATER USE RESTRICTIONS

- 12.1 In order to protect, preserve and, maintain public health, safety and, welfare the Board of Water Commissioners under their authority and, the Massachusetts Department of Environmental Protection (MassDEP) shall annually implement seasonal outdoor water use restrictions in accordance with conditions within the Townsend Water Departments Water Withdrawal Permit issued by MassDEP under M.G.L. c. 21G the "Water Management Act". ~~Outdoor water use restrictions shall be in force from May 1st - September 30th. Outdoor water use is permitted for "odd" numbered homes on "odd" numbered days and, "even" numbered homes on "even" numbered days. Outdoor water use is strictly prohibited during the day time hours between 9:00 AM - 5:00 PM. Any person/s violating this section shall be fined as follows:~~ as shown on the (Rate-Fee Schedule).
- | | |
|----------------------|-----------------|
| A. First violation: | Written Warning |
| B. Second violation: | \$50.00 |
| C. Third violation: | \$100.00 |

~~D. Each additional violation: _____ \$100.00~~

~~(Approved by BOWC April 6, 2020)~~

~~Each day in violation shall constitute a separate offense.~~

Other levels of restrictions or emergencies may be declared by the Board of Water Commissioners or the MassDEP such as a Declaration of a State of Water Supply Conservation or a Declaration of a State of Water Supply Emergency detailing but, not limited to authority, purpose, public notification and, termination as described in and in accordance with Chapter 87: Outdoor Water Use ByLaw of the Towns General Bylaws.

SECTION 13 VIOLATIONS

- 13.1 Any and all charges and fines levied by the Water Department in connection with these rules and regulations may be sued for and collected by the Board of Water Commissioners acting as agents for the Water Department.

SECTION 14 CONTROL OF HYDRANTS

- 14.1 The Fire Department shall have control of the hydrants in case of fire. In no case will any other person(s) be permitted to operate or handle hydrants or other Water Department appurtenances without prior authorization by the Superintendent of the Water Department. All authorized use of fire hydrants other than to extinguish a fire by the Fire Department shall be metered. A hydrant meter shall be installed on the hydrant prior to use, by the Water Department personnel. Only The Fire Department shall obtain authorization from the Water Department at least two (2) days prior of any proposed use of hydrants for training or purposes other than to extinguish fires.
- 14.2 ~~Fee of \$250.00 per fire flow test.~~
(Approved by BOWC April 6, 2020)
- 14.3 All Hydrant use after November 1st shall be for emergencies or firefighting only. Any exceptions will be at the discretion of the Board of Water Commissioners.

SECTION 15 DEVIATION FROM RULES AND REGULATIONS

- 15.1 The Board of Water Commissioners reserves the right to amend, suspend or deviate from any or all of the above rules and regulations acting in the best interest of the Town by; 1.) a majority vote to do so at a regular monthly meeting provided that the proposed intent to deviate, suspend or amend a rule or regulation has been discussed at the previous monthly meeting, or 2) by the unanimous consent of all Board members at any regular or special meeting of the Board.

SECTION 16 WATER INSTALLATIONS IN DEVELOPMENTS SUBJECT TO PLANNING BOARD RULES AND REGULATIONS

- 16.1 A copy of the plotted plan approved by the Planning Board and recorded with the Middlesex County Registry of Deeds showing the proposed water mains, hydrants and other appurtenances shall be submitted for the approval of the Board of Water Commissioners before work is to commence.

- 16.2 The Connection Charges shall be payable to the Townsend Water Department upon approval of water service applications to each lot at a regularly scheduled Board of Water Commissioners meeting. (see rate fee schedule).
- 16.3 All projects to be installed must be done by a qualified contractor approved by the Water Department. All materials to be used must be of the same make, or equal, now used by the Water Department. Hydrants, valves, fittings, etc must be installed as specified by the Water Department.
- 16.4 ~~A fee of \$200.00 per estimated 100,000 gallons of water for flushing new water mains to be paid for by the developer. Superintendent to establish the estimated usage.~~
- 16.5 All work and materials, including water services, will be furnished and paid for by the developer.
- 16.6 The Water Department must be notified at least Thirty (30) days before construction is to begin.
- 16.7 The developer will complete the installed water mains and services along with the required testing before he applies in writing to the Townsend Water Department for the acceptance of the water mains. Upon acceptance of the entire water installation, the system will become the property of the Town of Townsend Water Department after one (1) year, who will thereafter be responsible for its maintenance.
- 16.8 All work will be done under the supervision of the Water Department Superintendent or any person he may designate as inspector, the cost to be borne by the developer (see Rate-Fee Schedule).
- 16.9 Any and all expenses incurred by the Water Department in connection with the project may be billed to the developer.
- 16.10 For all large projects, a full-time inspector is required to ensure the quality of the work being performed.
- 16.11 When services are installed, the line must be flushed prior to attaching the service to prevent any debris entering the property through the line.

SECTION 17
~~WATER INSTALLATIONS IN PRIVATE STREETS NOT
UNDER PLANNING BOARD RULES AND REGULATIONS~~

- ~~17.1 A plan of the street showing side line locations and abutter boundaries must be made and recorded with the Middlesex County Registry of Deeds. And a copy showing the proposed water mains, hydrants and other appurtenances shall be submitted for the approval of the Board of Water Commissioners before work is to commence.~~
- ~~17.2 The Connection Charges shall be payable to the Townsend Water Department upon the approval of water service applications to each lot at a regularly scheduled Board of Water Commissioners meeting.~~
- ~~17.3 All projects to be installed must be done by a qualified contractor approved by the Water Department. All materials to be used must be of the same make, or equal, now used by the Water Department. Hydrants, valves, fittings, etc must be installed as specified by the~~

~~Water Department.~~

- ~~17.4 A fee of \$200.00 per estimated 100,000 gallons of water for flushing new water mains to be paid for by the developer. Superintendent to establish the estimated usage.~~
- ~~17.5 The Water Department will be furnished with a recorded easement covering the private street signed by all the abutters.~~
- ~~17.6 All work and materials, including water services, will be furnished and paid for by the developer.~~
- ~~17.7 The Water Department must be notified at least Thirty (30) days before construction is to begin.~~
- ~~17.8 The developer will complete the installed water mains and services along with the required testing before he applies in writing to the Townsend Water Department for the acceptance of the water mains. Upon acceptance of the entire water installation, the system will become the property of the Town of Townsend Water Department after one (1) year, who will thereafter be responsible for its maintenance.~~
- ~~17.9 All work will be done under the supervision of the Water Department Superintendent or any person he may designate as inspector, the cost to be borne by the developer.~~
- ~~17.10 Any and all expenses incurred by the Water Department in connection with the project may be billed to the developer.~~

SECTION 18
BUILDING OVER WATER LINES

- 18.1 The erection of any structure(s) over water lines attached to the Townsend Water Department system is not allowed. Any such line will have to be removed and relocated at the owner's expense.

SECTION 19
CROSS CONNECTION CONTROL PROGRAM RULES &
REGULATIONS

Purpose

- 19.1 To protect the public potable water supply of the Town of Townsend from the possibility of contamination or pollution by isolating such contaminants or pollutants this could backflow or back siphon into the public water supply system.
- 19.2 To promote the elimination or control of cross connections, actual or potential, between customer's in-plant potable water system and non-potable water systems, plumbing Fixtures and industrial piping systems.
- 19.3 To provide for the maintenance of a continuing Program of Cross Connection Control which will systematically and effectively prevent the contamination or pollution of all potable water systems from cross connections

Authority

- 19.4 As provided in The Federal Safe Drinking Water Act of 1974, (Public Law 93-523), and the Commonwealth of Massachusetts Drinking Water Regulations 310 CMR 22.22, the water purveyor has the primary responsibility for preventing water from unapproved sources or any other substances from entering the public water system.
- 19.5 The Townsend Board of Water Commissioners, Rules and Regulations, as most recently amended.

Responsibility

- 19.6 The Townsend Water Department shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow or back-siphonage of contaminants or pollutants through a potable water service connection. If, as a result of a survey of the premises, the Water Department determines that an approved backflow device is required at the town's water service connection or as in-plant protection on any customer's premises, for the safety of a potable water system, the Water Department shall give notice in writing to said customer to install approved backflow prevention devices as required. The customer shall within the time frame determined by the Water Department, install such approved backflow prevention device or devices at his or her own expense. Failure, refusal or inability on the part of the customer to install said device or devices within the established time frame shall constitute grounds for discontinuing water service to the premises until such device or devices have been properly installed.

Policy

- 19.7 No water service connection to any premises shall be installed or maintained by the Water Department unless the water distribution system is protected as required by Massachusetts State Law 310 CMR 2222 and this Regulation Service of water to any premises shall be discontinued by the Water Department if a backflow prevention device required by this Regulation is not installed and properly maintained, or if it is found that a backflow prevention device has been removed, by-passed, or if an unprotected cross connection exists on the premises. Service will not be restored until such conditions or defects are corrected.
- 19.8 In the case of a premises on which any industrial fluids or any other objectionable substance is handled, in the opinion of the Water Department, in such a fashion as to create an actual or potential hazard to the public water system, the public water system shall be protected against backflow from the premises by requiring the owner or occupant to install an approved backflow prevention device on the service line as to provide "Contaminant Protection".
- 19.9 Backflow prevention devices required by the Massachusetts Drinking Water Regulation, 310 CMR 22.22 shall be tested and maintained as required in Section (9) and must obtain an annual DEP permit as required in Section (10) (c)
- 19.10 Backflow prevention devices required, by the Water Department, to be installed under Sections 4.2 and 4.3 of this Regulation, shall be tested by the Water Department, or it's delegated agent, as required by state and federal regulations and are not required to obtain DEP permits.

- 19.11 All decisions relating to the determination of backflow devices with regards to said Cross Connection Control Program, will be made by the Townsend Water Department. Failure to comply with any directive from this office will result in termination of water service.
- 19.12 All costs, resulting from the implementation and operation of said Cross Connection Control Program, shall be the responsibility of the customer.
- 19.13 All fees for tests performed on backflow devices by the Townsend Water Department or its delegated agent will be assessed to the owner of the device.

Definitions

- 19.14 Definition as used in this section, unless the context indicates otherwise, the following words shall have the following meanings;

Approved Backflow Prevention Device: method to prevent backflow approved by the Massachusetts Department of Environmental Protection and/or the Townsend Water Department.

Backflow: the flow of water or other liquids, mixtures or substances into the distribution pipes of a potable water supply from a source other than the intended source.

Back-Siphonage: a form of backflow due to reduced or sub-atmospheric pressure within a water system.

Contamination or contaminant shall mean any physical chemical, biological or radiological substance or matter in water.

Cross connection: any actual or potential connection between a distribution pipe of potable water from a public water system, and any waste pipe, soil pipe, sewer drain, or other unapproved source. Without limiting the generality of the foregoing, the term 'cross connection' shall also include any bypass arrangements, jumper connections, removal section, swivel or changeover connection and other temporary or permanent connection through which backflow can occur.

Department: or Water Department, shall mean the Superintendent or governing body of the municipal water system who has been invested with the authority and responsibility for the implementation of the Cross Connection Control Program and for the enforcement of the provisions of this Regulation.

Health Hazard: an actual or potential threat of contamination to the potable water system which, in the opinion of the Massachusetts Department of Environmental Protection or The Townsend Water Department could endanger health.

In-plant Protection: the location of an approved backflow prevention device in a manner that provides the protection of the potable water system within the premises.

Owner or Occupant: any person maintaining a cross connection installation or owning or occupying premises on which cross connections can or do exist.

Pollution: the presence of any foreign substance (organic, inorganic or biological) in water which tends to degrade its quality so as to constitute a hazard or impair the usefulness or quality of water to a degree which does not create an actual hazard to the public health, but which does adversely and unreasonably affect such waters for domestic use.

Potable Water: water from a source which has been approved by the Massachusetts Water Supply and Pollution Control Commission for human consumption.

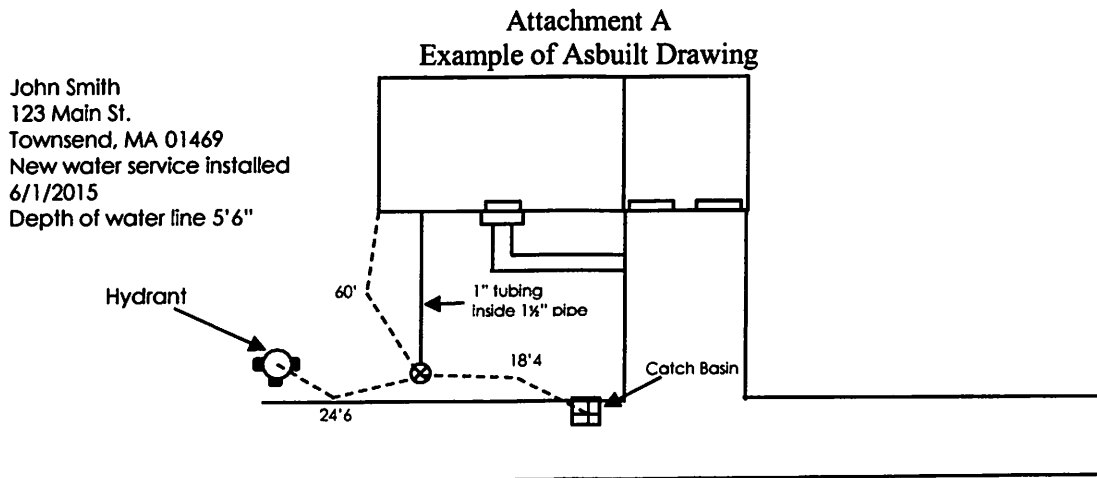
Public Water Supply: a system for the provision to provide the public with water for human consumption.

Unapproved Source: the source or distribution system for any water or other liquid or substances which has not been approved by the Massachusetts Water Supply and Pollution Control Commission as being of safe and sanitary quality for human consumption.

BOARD OF WATER COMMISSIONERS

Nathan Mattila, Chairman
Todd Melanson, Vice-Chairman
Michael MacEachern, Clerk

❖ Signatures on file Revised July 2020



TOWNSEND WATER DEPARTMENT

PFAS UPDATE

1 August 2021

1) Planning for the Harbor Trace PFAS Removal Treatment Plant is now being worked on. With hopes to break ground late 2022 to early 2023. To be completed approximately 12 months later. The plant is needed to keep our water capacity up, to be able to periodically clean, service, update, perform preventative maintenance, and as a backup to our existing wells in case something like Harbor Trace happens again. Also, to provide enough water for future growth and to expand to other parts of town without town water and fire protection. In the Spring of 2022, the New Main St Well will go online if all goes well. All initial testing is now complete, and we are working on the final permitting and bidding process. Once this process is complete, Harbor Trace can be turned off entirely. We are finalizing initial plans to submit to the State Revolving Fund for construction of the Plant. We are submitting draft plans for funding Mid-August for funding with a January-February award. This will bring us in the middle of budgets deadlines. PFAS Testing was done on 28 July 2021 on the 10 monitoring wells at Harbor Trace to detect the direction of the PFAS contamination, the test was conducted by DEP.

2) Pfas this quarter: May 97

June 81

July 58 for an average of 78.6

PFAS Treatment Plant

Support Planning

1) Finish Purchase by fall of Emergency Service Van. Also needed for the increased Staff required for the treatment plant.

2) Capital Planning Mid-January this should be:

- a) Treatment Plant**
- b) Gate exerciser**
- c) Main Street Generator and finishes**
- d) Possibly Cross St Generator**

3) Budget beginning February

A) 3% rate hike and/or a tiered system

1) Every \$0.50 of unit charge increase will bring in \$5,100 per year, there are 2547 units. \$0.50 is an 1.3% increase

2) Every 1% in water rate hike bring in \$9,950 per year. What is 1%? It is equivalent to \$0.04 per 100 cu feet or 748 gallons. A 1% increase in water rates is not a 1% increase in revenues. This is only a 0.61% revenue increase due to not changing the unit charge which would get a 0% increase.

3) the average household uses 24 units of water per quarter

4) Using the following towns: Littleton, Tyngsboro, Lancaster, Groton, West Groton, Shirley, Lunenburg, and Pepperell: the average rate is \$4.31, compared to Townsend at \$4.32. The average tier 2 kicks in at 15 units, Average tier 2 for same towns is \$5.50. Moving to a tier 2 would bring in \$22,244 per quarter. The average tier 3 is 20 units at \$6.22 per unit. Which would bring in \$5,982 per quarter. The average tier 4 is 25 unit at \$7.15 per unit.

5) Current sprinkler charges town wide is \$4830 per quarter extremely under billed, we do this at a loss just in billing and paperwork never mind lost water for unreported fire flow tests. Every \$0.50 raise in rates is 2.85% or \$138 dollars per quarter.

6) Recommendations:

A) A 3% rate increase in July 2022 and \$0.50 increase to the unit charge. \$35,000 per year. This will equate to a 2.2% increase in the water bills. Or about \$1 per quarter for the low-end users.

B) A 3% rate increase in July 2023 and \$0.50 increase to the unit charge. \$35,000 per year.

C) A 3% rate increase in July 2024 and a \$0.50 increase to the unit charge. \$35,000 per year.

D) A 3% rate increase in July 2025 and a \$0.50 increase to the Unit charge. \$35,000 per year.

E) A 3% rate increase in July 2026 and a 0.50 increase in the unit charge. \$35,000 per year.

F) A \$2.50 rise in sprinkler charges each year for 5 years. That is \$690 a quarter or \$3,450 a quarter after 5 years. Or \$13,800 per year for the entire town.

G) Move to a 2-tier system in July 2022, rate set at \$5.50 (at 15 units plus) per 100 cubic feet. For a total of \$88,976 per year revenue increase. Industrial Capped at tier 2. And a 3% rate increase per year to 2026.

H) Move to a 3-tier system in July 2023 Rate set at \$6.25 (at 20 units plus) per hundred cubic feet. For a total of \$24,924 per year revenue increase. And a 3% rate increase per year to 2026.

I) Move to a 4-Tier system in July 2024. Rate set at \$7.00. And a 3% rate increase per year to 2026.

J) Low water users will see a very small increase in their water bills about \$1 per quarter.

B) With a treatment plant being ready for running as soon as Fall 2022, the treatment plant will run 7 days a week all year long and will have to be staffed accordingly.

1) Constraints with personnel. No operator can work more than one week in three (union). A plant operator cannot work the weekend and be on-call in the distribution system at the same time.

2) Current existing employees must take leadership roles and get D2/T2 system qualified.

- a) David Vigeant D3/T3/L1/ Wetlands Biologist**
- b) Ryan LaPierre D2/T2/Asbestos**
- c) Kevin Keefe D2/T1/Backflow-T2 classes begins 21 Sept 2021**
- d) Alec Gaetz D2/T1/T2-Passed class pending T2 Exam**
- e) Brenda Boudreau Passed D1/T1 Course**
- F) Mistie Demazure D1/T1 -T2 class begins 21 Sept 2021**

3) On-call Schedule in accordance with union typical for 6-person rotation. Each worker is on-call one week in three. Typical schedule:

Operator one

- a) Week one Distribution on-call**
- b) Week Two Off**
- c) Week Three Off**
- d) Week four Treatment Operation On-call/Weekend**
- e) Week Five Off**
- f) Week six Off**

g) Operator-two starts on week two, Operator-three starts on week three, etc.

h) Office moves to treatment plant

i) Licensed office workers can mind plant for short durations of time during the working day when needed. Such as main breaks or installing water mains.

C) Operation Staff payroll will go up by \$150,000 and hidden costs like retirement and health care and other things an additional \$75,000 for new staff hiring.

Timeline: Service Tech/Plant operator (1) 1 July 2022

To be entry level train and qualify

Service Tech/Plant operator (2) 1 January 2023

To be Entry level train and qualify

Service Tech/Plant Operator (3) 1 July 2023

To be entry level train and qualify.

D) Media, chemicals, and Energy, \$80,000 per year

E) Financial:

- 1) \$120,000 per year will come off the books in July 2026 for past loan repayments.**
- 2) 0 to \$600,000 will have to be paid back per year depending on PFAS settlements, forgiveness, and grants. The rates to be reevaluated when this number is defined. \$300,000 will be generated from rate increases as proposed.**
- 3) 200 potential housing unit will be directly passed by new water main. This would bring in \$60,000 a year in revenues if just half tie into town water. With another 96 units planned soon, to existing lines. This will bring in about \$38,000 in revenues. Additional small main extensions to be done by the water department.**
- 4) Meters changeouts: there has been approximately a \$200,000 plus rise in yearly revenue directly related to meter change outs primarily in the industrial and gallon meters and new billing software. We have reduced the gallon meters from 448 to about 280. Changing the 280 gallon meters will account for a minimum of \$17,000 a year just in mis-billing rate charges alone. Meter change-outs revenue additions will go to new personnel hiring. The Town is now at 228 changed out of 2077.**
- 5) Totals: \$120,000 past loan repay
\$300,000 Rate Increases
\$100,000 New Development
\$520,000 total**



Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: 2299000 City / Town: West Townsend
PWS Name: Townsend Water Department PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information	Date Collected	Collected By
03b	Harbor Trace	<input type="checkbox"/> (M)ultiple <input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (S)ingle <input checked="" type="checkbox"/> (F)inished	07/14/21	Client
If Resubmitted Report, list below:				
Routine or Special Sample		Original, Resubmitted or Confirmation Report	(1) Reason for Resubmission	(2) Collection Date of Original Sample
<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS		<input type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction	
SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank				

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: M-IN035 Primary Lab Name: EEA Subcontracted? (Y/N) Y

Analysis Lab Cert. #: Analysis Lab Name:

If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample IDs#	
537.1	07/20/2021	07/20/2021	0.86	Primary Lab:	4955450
				Subcontracted Lab:	

CAS#	REGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL [*] ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	22		-	0.40	2.0
335-67-1	Perfluorooctanoic Acid (PFOA)	22			0.40	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	1.8	J		0.50	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	3.1			0.50	2.0
375-85-9	Perfluoroheptanoic Acid (PFHpA)	11			0.40	2.0
335-76-2	Perfluorodecanoic Acid (PFDA)	1.5	J		0.50	2.0
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column)		= 58.1	---	20	---	---
UNREGULATED PFAS CONTAMINANTS						
375-73-5	Perfluorobutane Sulfonic Acid (PFBS)	3.3		-	0.40	2.0
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND			0.40	2.0
307-24-4	Perfluorohexanoic Acid (PFHxA)	6.4			0.40	2.0
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND			0.60	2.0
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND			0.50	2.0
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND			0.50	2.0
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			0.60	2.0
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			0.50	2.0
763051-92-9	11-chloroicosafafluoro-3-oxaundecane-1-sulfonic acid(11Cl-PF3OUdS)	ND			0.50	2.0
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND			0.50	2.0
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND			0.61	2.0
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND			0.50	2.0






¹ A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.

Townsend PEF Items		Quantity	Unit Price	Cost
Project No. 1: PFAS Water Treatment Plant				
-General Conditions OH&P	1 LS	\$	10,000,000.00	\$ 10,000,000.00
			Subtotal=	\$ 10,000,000.00
Project No. 2 Raw Water Transmission Main				
-General Conditions OH&P	1 LS	\$	-	\$ 125,000.00
-New water main	5000 LF	\$	250.00	\$ 1,250,000.00
			Subtotal=	\$ 1,375,000.00
Project No. 3: Finished Water Looping Main-Emery				
-General Conditions OH&P	1 LS	\$	-	\$ 249,000.00
-New Water Main	8300 LF	\$	300.00	\$ 2,490,000.00
			Subtotal=	\$ 2,739,000.00
Project No. 4: Bayberry and Lunenburg Water Main				
-General Conditions OH&P	1 LS	\$	-	\$ 587,000.00
-New Water Main	14400 LF	\$	300.00	\$ 4,320,000.00
-Lunenburg Road Tank	1 EA	\$	800,000.00	\$ 800,000.00
-Booster Pump Station	1 EA	\$	600,000.00	\$ 600,000.00
-Valve Vault for Tank	1 EA	\$	150,000.00	\$ 150,000.00
			Subtotal =	\$ 6,457,000.00
			Subtotal (all contracts)	\$ 20,571,000.00
			Contingency (15%)	\$ 3,085,650.00
			Construction Total	\$ 23,656,650.00
			Engineering (15%)	\$ 3,085,650.00
			GRAND TOTAL	\$ 26,742,300.00

**ATTACHMENT D
PROPOSED PROJECTS**

Legend

- Legend**
-  Well Water Source
 -  Pump Station
 -  Water Storage Tank
 -  Water Main
 -  Proposed Water Main



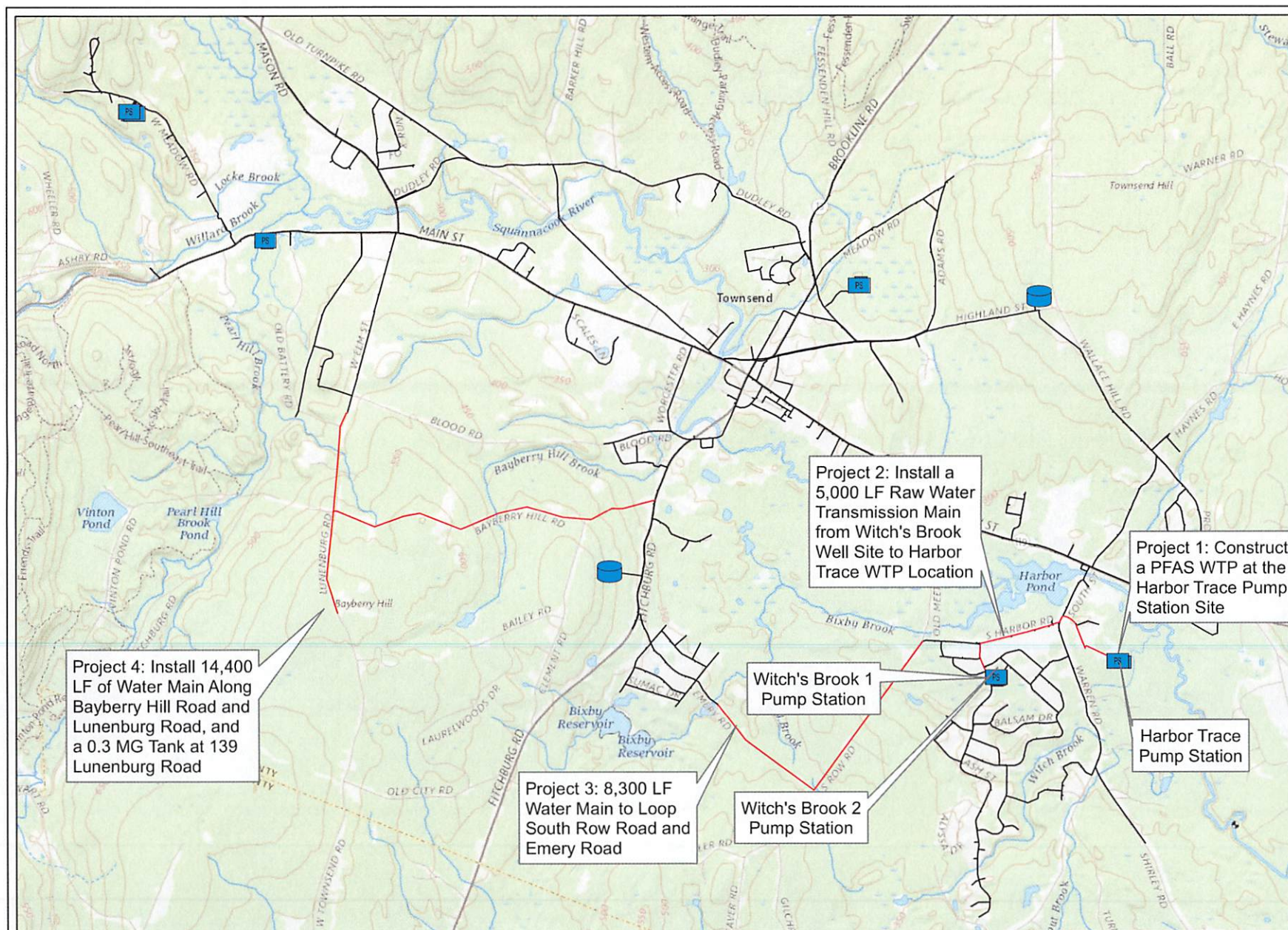
NOTES

1. Based on USGS Topographic Map

Townsend Water Department
Townsend, Massachusetts

August 2021

Tighe & Bond
Engineers | Environmental Specialists



Project Narrative

The proposed system improvements for the Townsend Water Department (Water Department) include a per- and polyfluoroalkyl substances (PFAS) treatment facility, raw water and finished water transmission mains, and one water storage tank. This narrative provides a description of the project and its benefits. The following report justifies the submission as a Tier V project and should be eligible for 0% PFAS financing as the Harbor Trace Well has detected concentrations of PFAS that exceed the Massachusetts Department of Environmental Protection (DEP) Maximum Contaminant Level (MCL).

Project Narrative 1-1

Section 1 Project Background 1-2

- 1.1 Existing Problems 1-2
 - 1.1.1 Water Sources of Supply 1-2
 - 1.1.2 Drinking Water Quality 1-2
 - 1.1.3 Resiliency Issues 1-3
- 1.2 Project Area for the Water Treatment Plant..... **Error! Bookmark not defined.**
- 1.3 Existing Public Health Issues 1-4
- 1.4 Affected Population 1-5

Section 2 Project Description 2-5

- 2.1 Work to be Completed 2-5
- 2.2 Major System Components..... 2-6
- 2.3 Energy Efficiency Measures 2-6
- 2.4 Back-Up Systems..... 2-7

Section 3 Project Implementation..... 3-7

- 3.1 Planning Efforts 3-7
- 3.2 Alternatives Discussion 3-7
- 3.3 Project Status..... 3-8

Project Attachments:

- Attachment A: 2021 Water System Master Plan Report
- Attachment B: PFAS Watershed Data
- Attachment C: Townsend Water Department System Map
- Attachment D: Proposed Projects

Section 1

Project Background

1.1 Existing Problems

The Water Department system improvements project is classified as a Tier V project as it will address significant deficiencies in the system as outlined below. The *2021 Water System Master Plan Report* prepared by Tighe & Bond analyzed many of the issues addressed in this narrative (see Attachment A).

1.1.1 Water Sources of Supply

The Water Department's water supply includes the Main Street Well Field, Harbor Trace Well, Witch's Brook Wells 1 and 2, and the Cross Street Well. Attachment C includes the Water Department's system map. Beginning in 2013, the Cross Street Well was taken offline due to water quality issues (iron and manganese), however, the well was recently put back in operation in an effort to decrease usage at the Harbor Trace Well where concentrations of PFAS have been detected in exceedance of the MCL. Water quality at Cross Street has been monitored and has not been an issue. The Water Department has been able to take Harbor Trace offline when demands are low. During high demands, the Harbor Trace Well will run up to half capacity, since the Main Street Well is also offline.

The Main Street Well is currently offline due to issues with the vacuum pump system and permitting of a new well. Construction at the Main Street Pump Station is anticipated to be complete by the Spring of 2022. Once the Main Street Well is online, the Townsend Water Department will be able to take Harbor Trace offline until a permanent treatment plant for PFAS removal has been constructed.

The Harbor Trace Well is the primary source of water for Townsend as it has the largest authorized withdrawal volume. Authorized daily withdrawals and pumping capacities are summarized in Table 1-1. The Water Department requires the supply from the Harbor Trace Well to keep up with growing water demands in the Town. Water quality issues related to PFAS at the Harbor Trace Well puts the Water Department at risk of not being able to supply water to its customers.

TABLE 1-1

Well Supply Sources

Source	DEP Source ID	Authorized Daily Withdrawals (MGD)	Pumping Capacity (MGD)
Main Street Well	2299000-01G	0.579	0.389
Cross Street Well	2299000-02G	0.439	NA
Harbor Trace Well	2299000-03G	1.000	0.576
Witch's Brook 1 Well	2299000-04G	0.320	0.504
Witch's Brook 2 Well	2299000-05G	0.390	0.504

1.1.2 Drinking Water Quality

As discussed previously, the Harbor Trace Well produces water with concentrations of PFAS greater than the MassDEP MCL of 20 ppt for six PFAS (PFAS6), combined. Water samples from each well (raw and finished water) were collected and tested for PFAS

concentrations by Eurofins Eaton Analytical in April, May, June, and July, 2021. Results are presented in Table 1-2 and Attachment B.

TABLE 1-2

Raw and Finished Water PFAS6 Concentrations (ppt)

Well	April 2021		May 2021		June 2021		July 2021	
	Raw	Finished	Raw	Finished	Raw	Finished	Raw	Finished
Main Street	ND	ND	XX	XX	XX	XX	XX	XX
Harbor Trace	69.9	68.6	XX	97.0	XX	81.0	XX	58.0
Witch's Brook 1	ND	ND	XX	XX	XX	XX	XX	XX
Witch's Brook 2	7.9	7.8	XX	XX	XX	XX	XX	XX

PFAS compounds were present in the Harbor Trace and Witch's Brook 2 wells. The PFAS levels at the Witch's Brook 2 Well were below the MCL of 20 ppt. However, the concentrations at the Harbor Trace Well were above the MCL of 20 ppt. As shown in Table 1-2, the levels of PFAS have been consistently higher than the MCL at Harbor Trace, with a quarterly average of 78.6 ppt. The Water Department plans to continue to limit use of the Harbor Trace Well until the new Main Street Well is in operation. Due to the high concentrations at Harbor Trace, blending is not an option.

High PFAS concentrations at Harbor Trace is also a concern at Witch's Brook Wells. Although, PFAS concentrations at Witch's Brook do not currently exceed the MCL, increased concentrations may be observed in the future. If this occurs, the Witch's Brook 2 Well may also require PFAS treatment.

In summary, without a treatment plant to remove PFAS from the Harbor Trace and Witch's Brook 2 Wells, the Townsend Water Department cannot:

- Utilize the full permitted capacity from the Harbor Trace Well
- Meet average day demand of the system
- Meet current water quality regulations

1.1.3 Resiliency Issues

Currently, the Water Department is trying to limit the use of the Harbor Trace Well due to PFAS concentrations above the MCL. The Harbor Trace Well is used at half capacity during high demands and will be shut down once the Main Street Well is back online. It is imperative that a PFAS treatment plant be installed at the Harbor Trace Well, since it is the Water Department's largest water supply source.

Additionally, based on detections of PFAS at Witch's Brook Well 2 and the chance that treatment may also be necessary for Witch's Brook in the future, a raw water transmission main connected to the Harbor Trace Treatment Plant via Ash Street to South Harbor Road, will allow for flexibility in operations and the ability to meet system high system demands.

Although the concentration of PFAS detected at the Witch's Brook Wells has not yet exceeded the MCL, other water quality issues including elevated concentrations of nitrates, iron, manganese, and perchlorate have been observed. The primary purpose of the treatment system at Harbor Trace is for PFAS removal, but the treatment system may also be effective in decreasing other water quality issues observed at Witch's Brook. A single facility at Harbor Trace will be more efficient and cost effective rather than operating and maintaining two separate facilities (one at Harbor Trace and one at Witch's Brook).

As described in the 2021 Master Plan, the Town also needs to expand the distribution system from South Row Road to Emery Road. This expansion will most importantly increase system resiliency. Currently, treated water from Harbor Trace and Witch's Brook Wells is directed through one water main that runs below a brook towards Main Street and is difficult to replace in the event of a failure. Extension of this water main would allow for a second pathway to distribute water through the system via South Row Road and Emery Road. Adding this loop will also eliminate several dead ends, improve water age and quality, and provide adequate fire protection.

Additional water quality issues (manganese and arsenic) have also been observed in several private wells located at the southern portion of the system along Bayberry Hill Road and Lunenburg Road where the water system does not yet extend. Extending the water system to these areas will result in improved water quality for these residents. Additionally, the extension will result in looping of the water system, which eliminates dead ends, improves water quality and age, and provides adequate fire protection. Due to the higher elevation of this area of Town the following improvements (in addition to 14,400 linear feet of new main) will be required for the extension.

1. A new water storage tank on Lunenburg Road
2. A new booster pump station

1.2 Existing Public Health Issues

Without treatment, the health-related and aesthetic issues created by the high PFAS concentrations at Harbor Trace and Witch's Brook make these sources unsuitable for distribution. The Water Department is only marginally able to meet current demands with the water quality issues associated with Cross Street and capacity issues at the Main Street Well Field. If the Harbor Trace Well must remain online to meet system demands, the customers could be exposed to water with PFAS concentrations higher than the MCL. This project addresses the health risks associated with these compounds at the Harbor Trace and Witch's Brook wells.

As discussed in Section 1.1.2, PFAS6 concentrations in the Harbor Trace Well are consistently above the MCL of 20 ppt. The proposed project will reduce concentrations at the Harbor Trace Well below the MCL and will mitigate a potential water quality threat to the Town at Witch's Brook 2.

The proposed water main extension from South Row Road to Emery Road will loop the distribution system, which will eliminate two dead ends, improve water age and quality, and increase resiliency. As described previously, extension of this water main will allow for an alternate pathway to the system in the event of water main break that stops flow towards Main Street. The extension will also eliminate dead ends. Dead ends in water

distribution systems are of concern because they can lead to poor water quality, such as increased likelihood of bacterial growth, and increased water age.

Lastly, residents in the Lunenburg Road and Bayberry Hill Road area have been experiencing water quality issues related to arsenic and manganese in their private wells. Looping the water main in this area, will provide treated water to residents. Additionally, looping the system will improve water age and quality, increase available fire flow and system resiliency.

1.2 Affected Population

The Water Department serves approximately 6,500 Townsend residents through approximately 2,000 service connections. The Town has a per capita income of \$33,553, and an adjusted per capita income of \$31,867. Based on the 2020 Affordability Calculation, the Town of Townsend is a Tier 2 community.

Section 2 Project Descriptions

Attachment D includes a visual of the proposed projects throughout the Townsend Water Distribution System.

2.1 Project 1 – PFAS Water Treatment Plant (WTP) to Treat Harbor Trace Well and Witch’s Brook Wells

This project includes the construction of a new approximately 1.7 MGD WTP. The proposed treatment system will include the construction of a new building on the Water Department’s property located at the existing Harbor Trace Well. The new building will be designed to include a PFAS filtration system capable of treating the combined flow from the Harbor Trace and Witch’s Brook wells. The existing chemical feed systems located in the Harbor Trace Pump Station will remain in use and will also be used to treat water from Witch’s Brook.

2.2 Project 2 – Raw Water Transmission Main to Combine Witch’s Brook Wells and Harbor Trace Well

This project involves construction of a 5,000 linear foot raw water transmission main between the Witch’s Brook Well Site and the Harbor Trace WTP Site (Ash Street to South Harbor Road to Harbor Trace Road). The raw water main will provide flexibility in operations in the event that the Town is required to treat Witch’s Brook Wells for PFAS. Water from the two sources will combine for a total of 1,187 gpm, or 1.7 MGD, at the proposed WTP.

The new raw water transmission main will be installed within existing roadways, minimizing impacts to resource areas. Small portions of the proposed 5,000 linear foot transmission main connecting the Witch’s Brook well to the proposed WTP will create temporary disturbances within previously disturbed buffer zones associated with wetlands, riverfront, and priority habitat. All proposed work will not permanently affect undisturbed areas.

2.3 Project 3 – Loop South Row Road and Emery Road

This project involves construction of an 8,300 linear foot water main between South Row Road and Emery Road to eliminate two dead ends within the system. Without this project, the Town only has one water main to supply water to the system. The water main runs below a brook and would be difficult to replace in the event of a failure. This project would increase the resiliency of the distribution system and provide a second option to distribute water throughout the system if the water main below the brook fails. The new water main will be installed within existing roadway, minimizing impacts to resource areas.

2.4 Project 4 – Loop Lunenburg Road and Bayberry Hill Road, One Water Storage Tank, and a Booster Pump Station

This project involves construction of a new 0.3 MG water storage tank and booster pump station at 139 Lunenburg Road to improve available fire flow and system pressure. A new 14,400 linear foot water main will also be installed along Bayberry Hill Road and Lunenburg Road to connect Fitchburg Road to Lunenburg Road. This expansion will allow residents currently experiencing water quality issues (manganese and arsenic) at their private wells to connect to the distribution system. The expansion will also eliminate the dead end at Lunenburg Road, improve system pressure, and add redundancy to the system.

2.2 Major System Components

Process Flows: The two existing wells at Witch's Brook and one existing well at Harbor Trace will combine for a total of 1.71 MGD (1,187 gpm) at the proposed WTP.

Harbor Trace Well Raw Water: The Harbor Trace Well is already treated at the Harbor Trace Pump Station. New piping from the well will be directed to the proposed WTP at the Harbor Trace site.

Witch's Brook Wells Raw Water: The Witch's Brook wells will be connected to the proposed WTP with a 5,000 linear foot transmission main. The new raw water transmission main will be installed within existing roadways to minimize impacts to resource areas.

Treatment System: The treatment systems within the WTP will consist of PFAS removal, backwash supply water storage, water storage, and existing chemical feed and storage systems from the Harbor Trace Well which include sodium hydroxide and sodium hypochlorite chemical feed systems.

2.3 Energy Efficiency Measures

Energy Efficient Process Components: Premium efficiency motors and variable frequency drives will be specified.

Energy Efficient Site and Building Components: Use of insulated windows for natural light, LED lighting fixtures, occupancy sensors, and tankless hot water heaters will be specified.

2.4 Back-Up Systems

Harbor Trace is already equipped with a backup generator. The generator will be evaluated to determine if a larger generator or additional generator will be necessary to power the entire facility to ensure delivery of potable water to all customers, even during a power outage. Since Harbor Trace Well and the Witch's Brook Wells are the two largest water sources, maintaining this supply at all times is critical for the Water Department's customers.

The raw water main between Harbor Trace Well and the Witch's Brook Wells will add flexibility to the treatment system. If the PFAS levels exceed water quality standards at the Witch's Brook Wells, treatment will be required. The transmission main will be in place if this scenario occurs, ensuring that the distribution system will not be disrupted, and the Water Department will have enough water to supply its customers. Per the 2019 Sanitary survey, the Water Department is also required to install permanent chlorine feed systems at each well. The Harbor Trace Well has a permanent chlorine feed system, allowing for treatment of Witch's Brook to be consolidated at the Harbor Trace site.

Section 3 Project Implementation

3.1 Planning Efforts

Tighe & Bond developed a Water System Master Plan throughout 2020 and early 2021, which is included in Attachment A. The Master Plan recommended the finished water main extension and the addition of a new water storage tank to alleviate known hydraulic issues and increase fire flow. At that time, there was no known presence of PFAS in any of the wells in Town. However, PFAS levels were detected in the Harbor Trace Well during routine monitoring.

3.2 Alternatives Discussion

Alternative 1 - One alternative involves making no changes to the existing well sites or distribution system. This option is not viable as the concentrations of PFAS in the Harbor Trace well will require treatment to remain in use. The Townsend Water Department requires the supply from the Harbor Trace Well to keep up with growing water demands in the Town. The PFAS levels in the Harbor Trace Well exceed the current water quality regulations so it cannot be used without additional treatment.

Without the water main extension from South Row Road to Emery Road, only one water main exists to distribute treated water from Harbor Trace and Witch's Brook to the system, which will become a problem if failure occurs at that watermain. Fire flow will also remain the same without the extension.

Lastly, without the extension on Lunenburg Road and Bayberry Hill Road, water quality for residents on private wells will continue to be poor.

Alternative 2 - The second alternative involves upgrades to only the Harbor Trace Well to maximize the existing permitted capacity and remove PFAS from the water. The existing wells at Witch's Brook have also tested positive for PFAS and may require treatment in the future. Therefore, additional work could be required down the line to add PFAS treatment and a chemical feed system at Witch's Brook. The Water Department Master

Plan indicated that the Town needs both the Harbor Trace and Witch's Brook Wells online to provide adequate supply.

Alternative 3 - The third alternative (or the "Preferred Alternative"), involves a centralized WTP at the Harbor Trace Well Site. The Witch's Brook Wells would be connected by a 5,000 LF transmission main to the Harbor Trace Well Site. This alternative also involves looping South Row Road and Emery Road, extending the water main on Lunenburg and Bayberry Hill Road, constructing a water storage tank, and a booster pump station on Lunenburg Road. This alternative results in increased resiliency and improved water quality.

The Preferred Alternative was selected as it has the least environmental impacts of the options assessed, reduces the capital investment costs, reduces the operation and maintenance costs, and meets the growing water demands of the Town. In addition, the raw water transmission main and water mains will be installed within existing roads.

3.3 Project Status

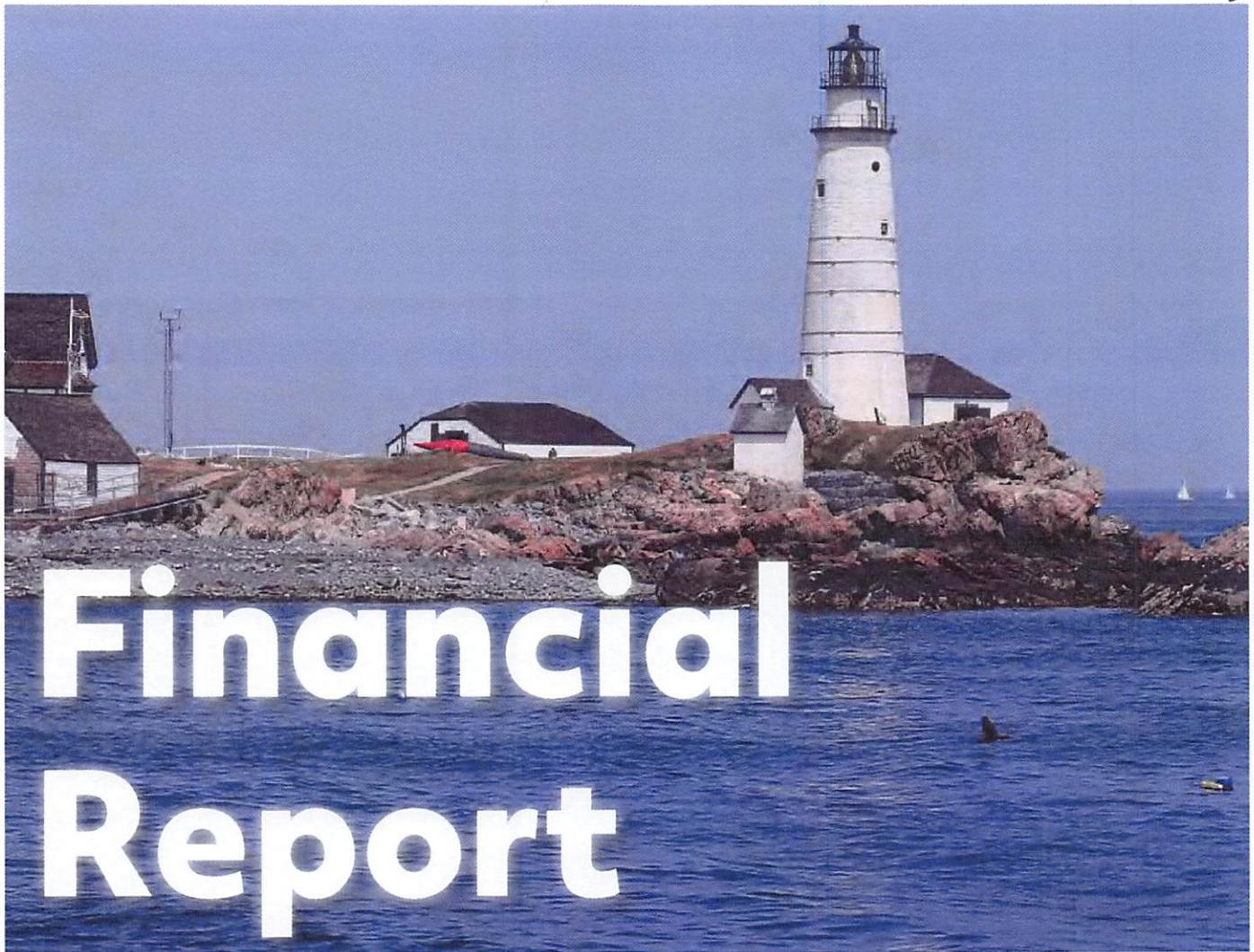
The Townsend Water Department has retained Tighe & Bond to assist with piloting treatment technologies for PFAS removal. Design of the WTP will begin after results of the pilot study are obtained. The intended goal of this project is to submit the PEF application and loan application in 2021, obtain funding on the 2022 Intended Use Plan, and bid the WTP project in early 2023. The water main and tank projects could be bid sooner (July 2022). A detailed proposed timeline is presented in Table 3-1.

TABLE 3-1

Preliminary Project Schedule

Task	Timeframe
SRF PEF Submitted to MassDEP	August 2021
WTP Pilot Study Begin	September 2021
WTP Pilot Study Complete	December 2021
Projects 2 through 4 (Watermains, Tank, Pump Station), 75% Design	February 2022
Projects 2 through 4 (Watermains, Tank, Pump Station), 100% Design	March 2022
Projects 2 through 4 (Watermains, Tank, Pump Station), Bid Documents Ready	July 2022
Projects 2 through 4 (Watermains, Tank, Pump Station) Start Construction	August 2022
Project 1(WTP) 75% Design	October 2022
Project 1(WTP) 100% Design	December 2022
Project 1 (WTP) Bid Documents Ready	January 2023
Project 1 (WTP) Start Construction	Spring 2023
Post Construction Phase/Warranty Period	September 2024 – June 2025

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Financial Report

Financial Report

Clean Water and Drinking Water Annual Summary

The Trust continues to provide subsidized financing projects that focus on the development and rehabilitation of wastewater and drinking water infrastructure with the aim of promoting sustainability, energy efficiency and green infrastructure. The CWSRF and DWSRF programs provide additional subsidies to designated Disadvantaged Communities. The Trust and MassDEP perform outreach activities to help communities realize opportunities to implement energy efficient and alternative energy projects. These activities are balanced with the promotion of cost-effective projects that maximize the protection of the environment and public health.

In SFY 2020, the Trust continued to expand its programs by providing binding commitments for 56 clean water projects totaling \$255.5 million and 23 drinking water projects totaling \$107.5 million. The total dollar amount for the CWSRF includes the Community Septic Management Program (CSMP). The CSMP provides low-interest financing to the Commonwealth's cities and towns to assist homeowners with repairing or replacing failed septic systems.

Binding Commitments

A binding commitment for a project is defined as a legal obligation by the Trust to a community that defines the terms and timing for assistance through the SRF program. Please see Appendix B for a complete list of SFY 2020 binding commitments.

Binding Commitments by Program and SFY

Dollar Amount in Millions

CWSRF			DWSRF	
SFY	Amount	Loans	Amount	Loans
2020	\$255.5	56	\$107.5	23
2019	\$299.0	45	\$72.1	17

Loan Interest Rates

	Clean Water	Drinking Water
Standard Interest Rate	2%	2%
Extended Term (up to 30 Years)	2.20%	2.20%
Housing Choice	1.50%	1.50%
Nutrient Enrichment Reduction Loans	0%	N/A
PFAS Loans	N/A	0%

Loan Programs

Most of the Trust's loans are subsidized to a 2% interest rate set by statute. However, recent legislative changes have allowed the Trust to identify priority projects and/or initiatives to receive a higher rate of subsidy. The subsidies used for these programs is supplied by the Commonwealth through contract assistance, and not counted as additional subsidy for the purposes of federal reporting. The following loan programs work to further various program or state goals by providing a higher rate of subsidy.



0% Interest Rate Nutrient Enrichment Reduction Loans

This loan program is for CWSRF loans. Due to Massachusetts' geographic location and population distribution, many communities are coastal or on rivers that flow into saltwater bodies. This leads to wastewater pollution and additional nitrogen being deposited into saltwater areas. An increase in nitrogen in affected saltwater bodies can create algae blooms which negatively affect animal habitats, cause fish kills, and cause a reduction in shellfish. The decrease in water quality is both an environmental and economic issue for coastal communities. This 0% interest rate loan program helps increase the chance of these projects moving forward by providing access to low-cost financing.

.50% Housing Choice Community Loan Reduction

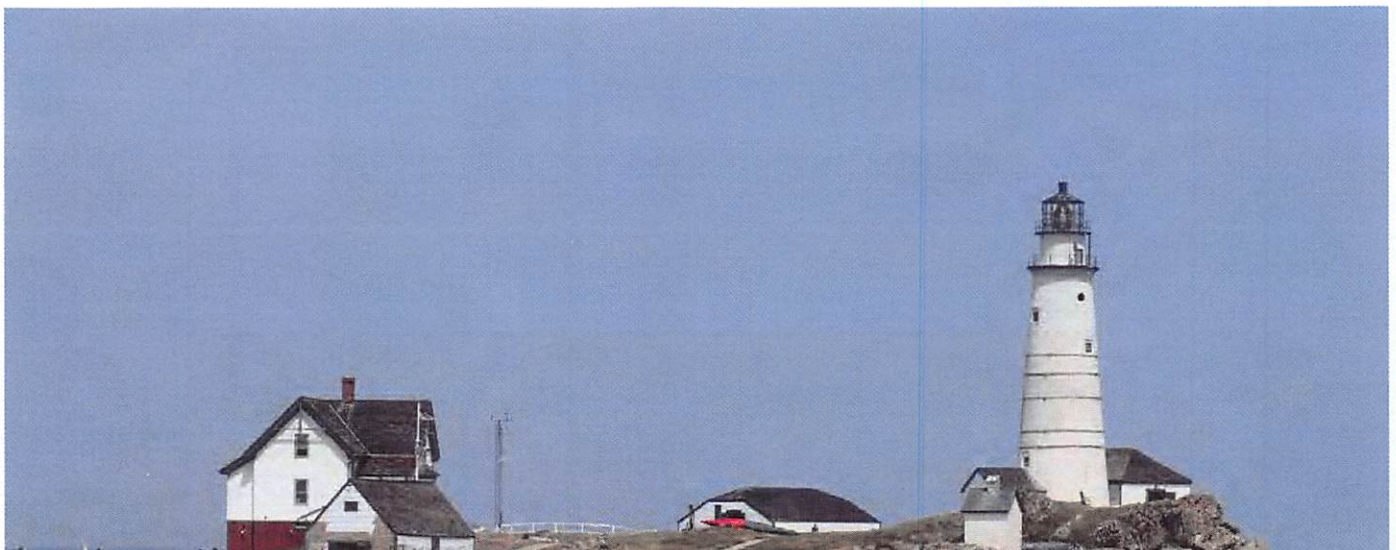
The Baker-Polito Administration has focused on creating affordable housing in the Commonwealth. The Trust has joined other state agencies in providing incentives to communities to participate in the Housing Choice Initiative by providing a .50% interest rate reduction to both Clean Water and Drinking Water loans. Loans cannot have less than 0% interest.

0% PFAS Remediation Loans

On January 31, 2020, the Board of Trustees approved a 0% interest rate loan pilot program for projects that remediate per- and polyfluoroalkyl substances (PFAS) in public water supplies for the 2020 calendar year. The program was made permanent by the Board on July 8th. These 0% interest DWSRF loans will help communities that have identified PFAS in their water to expedite and complete the remediation projects that are vital to providing clean drinking water to residents.

Average Interest Rate for Loans Closed in 2020

Average Interest Rate	Clean Water	Drinking Water
Standard Term Loans (Up to 20 Years)	1.80%	2.00%
All Loans (Includes Extended Term Loans - Up to 30 Years)	1.85%	2.05%





State Revolving Fund

State Revolving Fund

Annual Financial Summary

The following discussion provides additional details on the financial management activities of the SRF loan program.

Leveraged Financing Model

The SRF loan program receives funding from the EPA in the form of an annual grant, supplemented by a 20% state matching grant and the repayment of funds from borrowers. The Trust's SRF loan program utilizes a "leveraged" financing model, under which SRF Program Funds are used as a source of security for revenue bonds ("SRF Bonds") issued by the Trust. Proceeds from the SRF Bonds are used to finance loans to local cities, towns and other eligible borrowers for project costs.

The leveraged structure of the Trust's program permits the Trust to substantially increase the amount available to finance eligible project costs across the Commonwealth. Each federal grant and associated state matching grant dollar contributed to the program results in at least three dollars of project cost financing while assuring the perpetual nature of the revolving fund.

Highlighted Project

FRANKLIN TREATMENT PLANT AT WELL STATIONS NO.3 AND 6 -

\$12,579,500



Source: franklinmatters.org

The Franklin Water Department began the design process of building a new water treatment plant for iron and manganese removal for Wells No. 3 and No. 6, as well as replacing water mains to comply with the corrective action order by MassDEP in 2014. Many treatment options were pilot tested, and the Greensand media was chosen as the best method in iron and manganese removal through filtration systems. This system will be accompanied by centralized chemical feed equipment for the well stations, emergency back-up power, and replacement of the Well No. 6 vacuum suction system with submersible pumps in the well heads. The new plant construction and design has continued from 2018-2019, with groundbreaking in 2020.

90% of the new Grove Street plant has been designed, equipped to fully treat 1.22 million gallons per day (MGD) from both combined wells (3 and 6). Currently, Well No. 3 is only pumping .25 MGD, while .5 MGD is permitted. Well No.6 has been offline due to elevated levels of iron and manganese, and pumping 0 MGD since 2016, while .72 MGD is permitted. In addition, a replacement well has been installed in both wells to increase production within permitted volumes. The plant is designed for expansion if ground water continues to deteriorate.

Upon completion of this project, drinking water quality will be improved due to the reduced manganese and iron concentrations, and the town will have the capacity to meet its drinking water needs into the future.



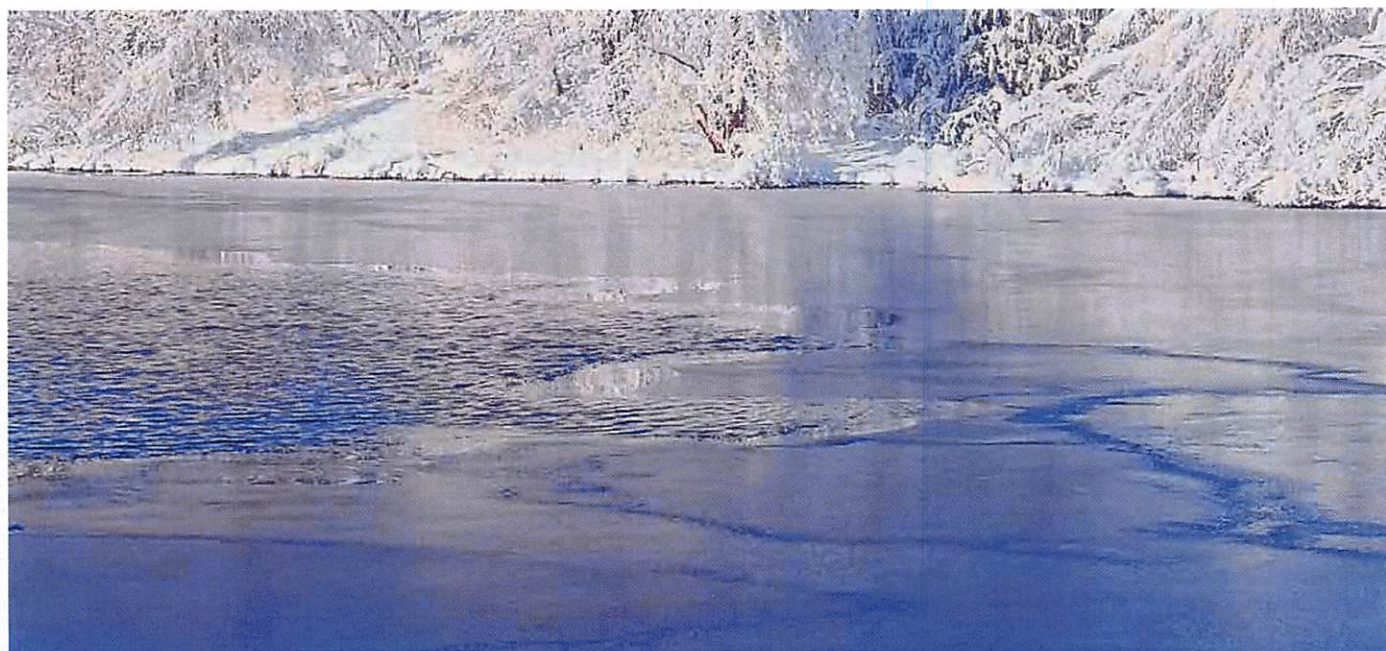
CWSRF Binding Commitments for SFY 2020

PRA No.	Borrower	Agreement Date	Project Description	Commitment Amount
CWT-19-13	Bellingham	08/01/2019	Community Septic Management Program	\$300,000
CWP-19-07	Bourne	11/01/2019	Buzzards Bay Wastewater Treatment Facility	4,660,410
CWA-19-25	Brockton	11/01/2019	Asset Management Plan Grant Program	150,000
CW-18-24	Chatham	10/01/2019	Phase 1D - Chatham/Harwich Regionalization	8,174,858
CWA-19-20	East Longmeadow	01/01/2020	Asset Management Plan	84,000
CW-18-45	Fall River	07/01/2019	Fall River Asset Management	500,000
CW-18-44	Fall River	07/01/2019	Stafford Square Collection System Evaluation	400,000
CWP-18-38	Fall River	07/01/2019	Wastewater Treatment Facility Improvements	22,372,932
CWP-18-36	Fall River	07/01/2019	President Avenue Sewer Pump Station Replacement	4,117,500
CWP-19-23*	Fall River	05/01/2020	South End Sewer Pump Station Replacement	3,231,950
CWP-19-23A	Fall River	05/01/2020	South End Sewer Pump Station Replacement	570,000
CWP-16-10B	Fitchburg	10/01/2019	Fitchburg WWTF Secondary Systems Upgrade	2,785,640
CWA-19-18	Gardner	09/01/2019	Gardner Asset Management Plan	141,000
CWP-19-44	Gloucester	05/01/2020	Sewer PS Rehabilitations & FOG Mitigation	1,504,260
CWA-19-24	Gloucester	11/01/2019	Asset Management Plan	150,000
CWP-18-23	Harwich	07/01/2019	Harwich Sewer Collection System - Phase 2	22,214,467
CW-19-12	Haverhill	09/01/2019	CSO Control Plan for the Locke Street CSO Area	1,534,800
CWP-19-04*	Holyoke	05/01/2020	Jackson Street Area Sewer Separation Project	8,051,397
CWP-19-04A	Holyoke	05/01/2020	Jackson Street Area Sewer Separation Project	854,603
CWA-19-15	Hopkinton	08/01/2019	Town of Hopkinton Asset Management Plan	103,800
CW-18-22	Hull	07/01/2019	Sanitary Sewer Evaluation Survey	1,436,820
CWP-18-29	Hull	07/01/2019	Fiscal Sustainability Plan and CMOM Upgrades	9,999,260
CWA-19-08	Ipswich	11/01/2019	Ipswich Asset Management Plan	150,000
CWP-19-06*	Lawrence	03/01/2020	Sewer and Drainage System Improvements	4,400,000
CWP-19-06A	Lawrence	03/01/2020	Sewer and Drainage System Improvements	570,000
CW-19-21	Lawrence	06/01/2020	Sanitary Sewer Evaluation Survey Phases VI through VIII	3,000,000
CWA-19-14	Leicester Water Supply District	08/01/2019	Sanitary Sewer Asset Mgt. Plans for 3 Districts	45,000
CWP-19-26	Leominster	11/01/2019	Aeration Basin and Secondary Clarifier Upgrade	11,294,000
CWP-16-15B	Lowell	03/01/2020	CIP Phase - WWTF and Infrastructure Upgrades	2,200,000
CWP-19-27	Lynn Water And Sewer Commission	06/01/2020	West Lynn Sewer Separation	11,117,687
CW-18-37	Marion	11/01/2019	WWTP & Collection System Improvements	7,663,309
CW-19-50	Massachusetts Water Resources Authority	01/01/2020	Wastewater Treatment Plant and Sewer Improvements	3,350,379
CW-19-51	Massachusetts Water Resources Authority	01/01/2020	Remote Headworks Upgrade	30,000,000
CW-19-49	Massachusetts Water Resources Authority	01/01/2020	Facility Asset Protection	7,529,886
CW-19-52	Massachusetts Water Resources Authority	01/01/2020	Dorchester Interceptor Sewer Renewal Contract 7279	4,707,485
CW-19-45	Massachusetts Water Resources Authority	01/01/2020	Nut Island HW Odor Control & HVAC - Contract 7548	20,000,000
CWA-19-19	Medford	11/01/2019	Asset Management Planning	141,445

CWSRF Binding Commitments for SFY 2020

PRA No.	Borrower	Agreement Date	Project Description	Commitment Amount
CWA-19-10	Millis	08/01/2019	Asset Management Planning	88,500
CWA-19-17	New Bedford	09/01/2019	Asset Management Plan Grant Program	410,000
CWP-18-43	Norton	07/01/2019	West Main Street Sewer Extension Project	5,289,438
CWA-19-11	Oak Bluffs	08/01/2019	Oak Bluffs Asset Management Plan	22,800
CWT-20-02	Plymouth	05/01/2020	Community Septic Management Program	300,000
CWP-19-29	Quincy	06/01/2020	FY2020 Sewer Improvements	3,781,735
CWP-16-17A	Revere	10/01/2019	Phase VII Construction - I/I, IDDE, P.S. & Drainage	9,027,431.00
CWP-17-27A	Revere	03/01/2020	Phase VIII - I/I, IDDE, P.S., & Drainage	373,953
CW-18-19	Revere	08/01/2019	Illicit Connection and Sump Pump Investigation	500,000
CW-18-26	Revere	08/01/2019	Phase X Field Investigations - I/I and IDDE	1,000,000
CWP-18-28	Revere	07/01/2019	Phase IX Construction - I/I, IDDE, P.S. & Drainage	4,700,000
CWP-19-31	Saugus	06/01/2020	Lincoln Ave Pump Station Improvements, Phase 2	536,940
CWP-18-18A	Springfield Water And Sewer Commission	07/01/2019	York St. Pump Station & Connecticut River Crossing	12,341,902
CWT-20-01	Stoughton	05/01/2020	Community Septic Management Program	400,000
CW-19-16	Sudbury	12/01/2019	Clean Water Master Plan Update	500,000
CWP-16-39B	Upper Blackstone Water Pollution Abatement District	07/01/2019	Nutrient Removal Improvements	2,100,000
CWP-19-41*	West Springfield	05/01/2020	Birnie Avenue and Piper Road Area Sewer Project	6,066,000
CWP-19-41A	West Springfield	05/01/2020	Birnie Avenue and Piper Road Area Sewer Project	745,000
CWP-19-05	Winthrop	11/01/2019	Town Center - Sewer and Drainage Improvements	7,786,451
Total Clean Water Binding Commitments SFY 2020				\$255,477,038

**Loans used for FFATA Reporting*



DWSRF Binding Commitments for SFY 2020

PRA Number	Borrower	Agreement Date	Project Description	Commitment Amount
DWA-19-21	Adams Fire District	01/01/2020	Adams Fire District - Asset Management Plan	\$19,500
DW-19-13	Andover	06/01/2020	Distribution System Improvements - Contract 1	3,253,219
DWA-19-07	Avon	08/01/2019	Integrated Water Resource Asset Management Plan	67,200
DWP-18-10*	Barnstable	07/01/2019	Maher Treatment Facility Upgrade	10,480,061
DWP-19-04*	Billerica	01/01/2020	Water Treatment Plant Upgrades	9,974,561
DWA-19-08	Canton	09/01/2019	Asset Management Planning	150,000
DW-19-05	Dunstable	08/01/2019	Dunstable Water Infrastructure Project	2,640,000
DWP-19-06*	Eastham	04/01/2020	Phase 2B of Town-Wide Water System	10,538,250
DWP-18-15	Fall River	07/01/2019	Phase 18 - Water System Improvements	1,407,170
DW-19-02	Franklin	10/01/2019	Treatment Plant at Well Stations No. 3 and 6.	12,579,500
DWP-18-06	Haverhill	07/01/2019	Phase 2 - Transmission Main Improvements	8,547,666
DWP-19-01	Lawrence	08/01/2019	Water Valve Replacement Project	2,738,768
DWP-19-03*	Lawrence	09/01/2019	Distribution System Improvements	6,014,161
DW-19-26	Massachusetts Water Resources Authority	01/01/2020	Wachusett Aqueduct PS	4,103,509
DW-19-25	Massachusetts Water Resources Authority	01/01/2020	SEH Redundancy and Storage	10,896,491
DWP-19-10	Pepperell	10/01/2019	Bemis Water Treatment Plant	8,500,000
DWP-18-09	Revere	07/01/2019	Oak Island Water Main Improvements	875,242
DW-19-18	Scituate	05/01/2020	Scituate Well 17A Water Treatment Plant	6,769,393
DWP-18-12	Southampton	07/01/2019	Southampton Water System Improvement Project	1,700,000
DWA-19-09	Springfield Water And Sewer Commission	12/01/2019	Asset Management and Capital Improvements Plan	150,000
DWP-18-07*	Taunton	07/01/2019	2018 Water Main Improvements Project	4,000,000
DWP-19-27	West Boylston Water District	05/01/2020	North Main St. & Laurel St. Water Main Replacement	1,549,777
DWP-17-13A	West Springfield	01/01/2020	Drinking Water System Improvements Project	598,042
Total Drinking Water Binding Commitments SFY 2020				\$107,552,510

**Loans used for FFATA Reporting*



Highlighted Project

DUNSTABLE WATER INFRASTRUCTURE PROJECT -

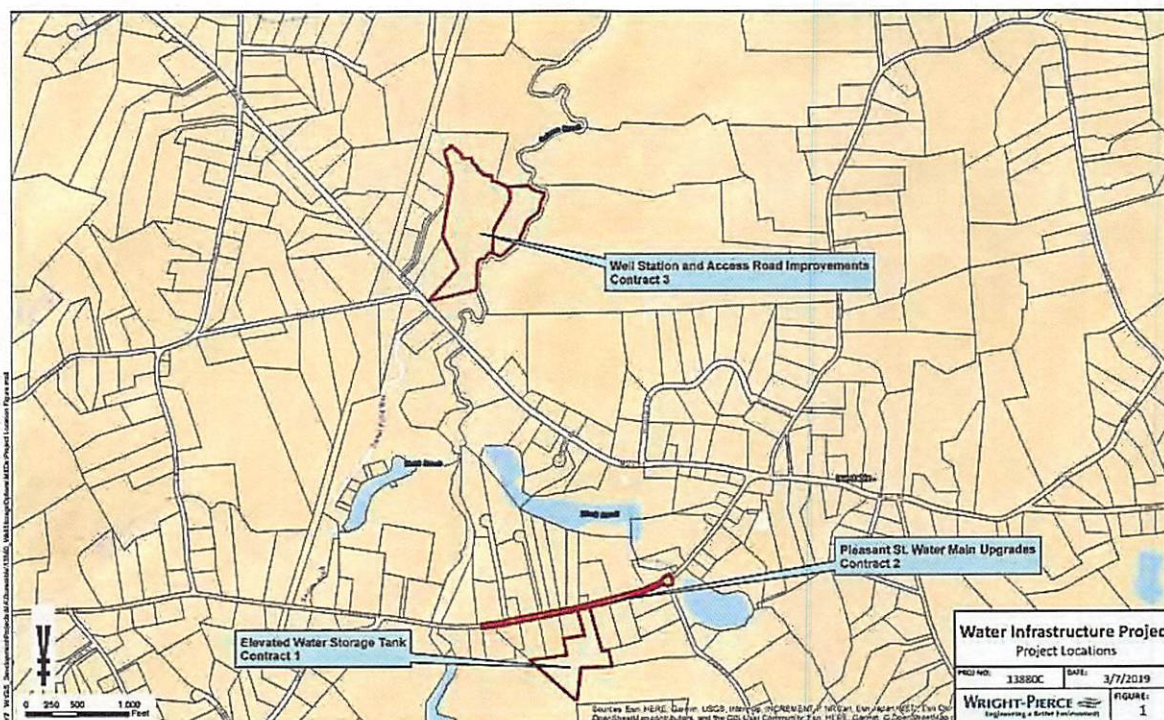
\$2,640,000

The Town of Dunstable has a limited centralized public water supply with 102 connections. Most of these connections are residential. However, an elementary school, municipal facilities and a small assortment of commercial properties are also connected to the system. This public water supply serves a drinking water population of approximately 230 people. In May 2018, MassDEP issued an Administrative Consent Order that identified inconsistent pH levels in existing well sites. Additionally, the notice noted the pre-existing hydro-pneumatic water storage tanks were failing to maintain pressure causing fluctuations in the pH levels. Inconsistent pH levels and failing tanks pose a serious threat to the public and the reliability of the system's supply.

The Town submitted a design for a water storage tank to replace the existing hydro-pneumatic system and for a water main replacement on Pleasant Street. This 75,000-gallon, pedestal type, elevated steel storage tank will meet MassDEP's guidelines. MassDEP also required corrosion control treatment to ensure that the pH level of water entering the system is 7.0 or greater.

The existing water main is an undersized 4-inch asbestos cement pipe. This project will add approximately 1,800 linear feet of 12-inch diameter piping and a 12-inch connection to the new elevated storage. Gate valves, fittings, hydrant assemblies, and road restoration will also be part of the upgrades. Finally, Various improvements to the Dunstable Well Site will optimize the existing potassium hydroxide feed system used to control the pH levels of source water. Upgrades include dedicated magnetic flow meters for chemical pacing.

Replacing the tanks with the new elevated atmospheric storage tank and optimizing the feed system are vital projects to ensure that the town is providing safe drinking water.



Source: dunstable-ma.gov

Combined Sewer Overflow (CSO) Correction Projects

These projects involve the reduction of untreated water discharged from combined sewer systems. Combined sewer systems are sewers that are designed to collect rainwater runoff, domestic sewage, and industrial wastewater in the same pipe. During wet weather events, the combined sewer systems can reach capacity and the excess overflows into surrounding waters, creating a combined sewer overflow (CSO). CSO correction projects work to reduce the amount of untreated water discharged from combined sewer systems. The elimination of CSOs is an EPA and Commonwealth priority goal that will reduce the amount of untreated wastewater that is released into the local environment.

Non-Point Source (NPS) Sanitary Landfill

These projects involve the reduction of NPS pollution from landfills by capping, installing leachate collection systems, or repairing insufficient or damaged landfill systems. NPS pollution is caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into ground and surface waters.

Planning Projects

These projects involve developing plans to address water quality and related public health problems. Infrastructure management tracking, capital investment schedules, and the adoption of best management practices are also objectives. For example, comprehensive wastewater management plans provide strategies for addressing wastewater treatment and disposal issues in a city or town. Integrated municipal stormwater and wastewater resource management planning assists municipalities with meeting requirements that arise from distinct wastewater and stormwater programs. Fiscal sustainability and asset management planning assists communities with maintaining replacement schedules and forecasting capital needs.

Drinking Water Categories

Drinking Water Treatment Projects

These projects involve the upgrade, maintenance, and construction of water treatment facilities. These projects are meant to improve the overall quality of drinking water and are targeted at removing specific pollutants that are known health risks. Treatment plant upgrades can impact the overall efficiency of a plant's energy consumption. Replacing equipment at the end of its useful life will improve overall system efficiency. New pumping and filtering equipment are designed with energy efficiency in mind.

Drinking Water Transmission and Distribution Projects

These projects involve the infrastructure that brings raw water to treatment facilities and the infrastructure that conveys treated water for consumption. This includes everything from large transmission mains from reservoirs to the service lines that provide treated water to homes and businesses. Lines at the end of their useful life can lead to inefficiency in water transmission. Older pipes, made of lead or cast iron, can be severe health risks when corrosion occurs. Upgrades to pumping and booster stations make the transmission process more energy efficient and improve the overall efficiency of the system.

Drinking Water Source and Storage Projects

These projects involve two different categories. Source water projects are related to untreated water sources – such as rehabilitating surface water in a reservoir or drilling and maintaining wells. Storage projects deal with infrastructure for maintaining and storing treated water before it is distributed into a system.

Section 3 | Drinking Water State Revolving Fund Projects

Drinking Water Treatment Projects

Treatment projects include the construction, expansion, and rehabilitation of drinking water infrastructure that reduces contamination through various treatment processes. Such processes aim to condition water or remove contaminants. Treatment processes include filtration of surface water, pH adjustment, softening, disinfection, waste handling and other treatment needs (i.e., granular activated carbon which filters out chemicals, particularly organic chemicals, aeration and iron/manganese removal) along with chemical storage tanks.

Upgrades and maintenance to water treatment plants leads to improved water quality and system efficiency. Replacing equipment that has reached the end of its useful life along with upgrading filtering and purifying equipment makes these facilities less susceptible to failures that could endanger public health. Additionally, system improvements such as corrosion control, help keep the public safe from issues related to older cast iron pipes and lead service lines. Upgraded equipment generally leads to more efficient facilities that consume less power and improves worker safety.

Highlighted Project

Norton - New Water Treatment Plant - \$10,300,000

The Town of Norton's drinking water supply is ground water which comes from the Taunton River Basin. Iron and manganese are natural elements commonly found in ground water. High concentrations of these elements can lead to water discoloration and may have adverse health effects for infants and pregnant women. The Town used corrosion control and hydrant flushing to reduce the overall buildup of these elements. To help remedy this issue, the Town of Norton constructed a 2.5 MGD pressure filtration plant to remove high levels of iron (0.9 to 3.28 mg/l) and manganese (0.18 to 0.35 mg/l) from three wells that provide over 75% of the Town's water. All three wells have combined iron and manganese levels above the sequestering limit of 1.0 mg/l. The raw water pipeline from one well will be drilled directly under the Canoe River to reach the plant.



Source: Methuenconstruction.com



Additional Subsidy

On March 10, 2020, Governor Baker declared a state of emergency for the Commonwealth of Massachusetts to respond to COVID-19. To provide more flexibility to our local partners dealing with COVID-19 state and local health restrictions, MassDEP and the Trust extended the deadline for qualifying projects to August 14, 2020. The Trust expects to award approximately \$20 million in loan forgiveness in compliance with EPA 2019 grant requirements and congressional appropriations.

Additional subsidy is dedicated to communities that would not otherwise be able to afford projects. Loan forgiveness reduces the total principal cost and interest costs paid over the life of the loan. The Trust chooses to apply all subsidy funds to communities that are deemed Disadvantaged Communities. The Trust uses the methodology detailed below to identify Disadvantaged Communities, as outlined by the Water Resources Reform and Development Act (WRRDA) of 2014 for the CWSRF, and the America's Water Infrastructure Act of 2018 (AWIA) for the DWSRF.

Using guidance outlined in WRRDA and AWIA the Trust's formula, which was approved by EPA Region 1, considers the per capita income, population trend from 2000-2010 and the employment rate for each municipality to develop an adjusted per capita income. Each municipality is then ranked against the state average and municipalities below the state average are sorted into three tiers. Tier 3 is less than 60% of the state average, tier 2 is 60%-79.99% and tier 1 is 80%-99.99%. The Trust's formula provides the subsidy to communities that are most in need and provides all communities below the state average with an additional incentive to use Trust financing.

Beginning with the 2019 IUPs, the Trust changed how it provides loan forgiveness. Previously, the Trust used a loan forgiveness allocation method that calculated the loan forgiveness based on available funds as a percent of total project cost. The method would produce a different percentage of loan forgiveness for communities in all three tiers year over year and borrowers would not know how much they could expect to receive in any given year. Now, the Trust fixes the percentages of loan forgiveness for communities in each tier and program. The fixed percentages are published each year in the IUPs. This simplifies financial planning for communities by letting them know their approximate loan forgiveness and provides a more concrete incentive to move forward with projects. The table below shows the fixed percentages.

Loan Forgiveness by Program and Affordability Tier

Tier	Clean Water	Drinking Water
1	3.3%	6.6%
2	6.6%	13.2%
3	9.9%	19.8%
Only for projects appearing on the 2019 IUP and beyond		



Office of the
Townsend Water Department
 540 Main St.
 West Townsend, Massachusetts 01474-0017
 Tel: 978-597-2212
 Fax: 978-597-5611

3.6
Board of Water Commissioners
 Todd Melanson, Chairman
 Michael MacEachern, Vice Chairman
 Christopher Jones, Clerk

Superintendent
 David W Vigeant

Schedule of Rates and Fee's

Water Rates:	T.W.D. Residential
	Tier 1 0-1500 (cu ft) \$38.00 Unit Chg. + \$4.45/100 (cu ft) Billed Quarterly
	Tier 2 1501-3000 (cu ft) \$38.00 Unit Chg + \$5.50/100 (cu ft) Billed Quarterly
	Tier 3 3001-4500 (cu ft) \$38.00 Unit Chg + \$6.25/100 (cu ft) Billed Quarterly
	Tier 4 4501 (cu ft) and up \$38.00 Unit Chg + \$7.00/100 (cu ft) Billed Quarterly
Meter Valve Replacement:	Labor Rate \$50.00/1 hour. Meter valve plus 10% and miscellaneous parts if needed
Meter Tampering:	\$1,000.00/per offence and water usage averaged and repairs or triple the amount of damages whichever is greater.
System Development Charges:	1" and under ~ \$2,500.00
	1 1/2" ~ \$3,500.00
	2" ~ \$8,000.00
	3" & Over ~ \$25,000.00
	Main and Sprinkler/connection ~ \$5,000.00
Sprinkler Charge:	According to size of the fire line at a rate of \$20.00 per inch quarterly
Overdue Accounts:	1 1/2% interest of amount due after 30 days.
Material:	Cost + 10%
Labor:	Cost + 20%
Turn On Fee:	\$65.00
Final Readings:	\$65.00
Fire Flow Tests:	\$250.00/Nozzle
Hydrant Use:	\$250.00 + water used
Meter Testing:	\$50.00.
Labor Charges:	For 1 man \$65.00 per hour minimum 1 hour. For 2 men \$115.00 per hour minimum 1 hour.
Backhoe Rate:	\$200.00/hr.
Backflow Testing Charge:	Backflow Testing Vendor Charge + 10% Admin Fee per Backflow
Water Restriction Violations:	1 st notice ~ written warning N/C
	2 nd notice ~ \$50.00
	3 rd notice ~ \$100.00
	Each additional notice ~ \$100.00
	One violation can be given each day.

TABLE OF Rates

	¹	²	³	⁴
2022	4.45	5.50	<u> </u>	<u> </u>
2023	4.58	5.66	6.25	<u> </u>
2024	4.72	5.83	6.44	7.00
2025	4.86	6.00	6.63	7.21
2026	5.01	6.18	6.82	7.43

Per inch

GO FROM \$7.50 Q TO \$20.00
PER INCH



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Open Market Bid BD-22-2207-TWD01-TWD01-65335

Status: 2BR - Ready to Send

General Items Address Accounting Routing Attachments Notes Bidders Questions Amendments Q & A Reminders **Summary**

Overall Validation Warnings

No bid bidder.

Header Information

Bid Number:	BD-22-2207-TWD01-TWD01-65335	Description:	Emergency Service Van	Status:	2BR - Ready to Send
Purchaser:	David Vigeant	Minor Status:		How Solicited:	Email
Organization:	Townsend Water Department				
Fiscal Year:	22	Department:	TWD01 - Townsend Water Department	Location:	TWD01 - Townsend Water Department
Show On Web:	No	Allow Electronic Quote:	Yes	Required Date:	08/04/2021
Bid Opening Date:	08/19/2021 12:00:00 AM	Available Date:	08/05/2021 12:00:00 AM		
Purge Date:	09/19/2021				
Bid Type:	Open Bid	Informal Bid:	Yes	Print Dest Detail:	
Control Code:		Estimated Cost:	\$0.00	Catalog Id (for contract):	
Alternate ID:		Purchase Method:	Open Market	Type Code:	NS
Blanket/Contract Begin Date:		Blanket/Contract End Date:		Pre-Bid Conference:	
Info Contact:		Bulletin Desc:	TOWNSEND WATER 5 August 2021 DEPARTMENT SPEC SHEET FOR BID HIGH TOP EXTENDED LARGE CONVERSION VAN FOR USE AS EMERGENCY SERVICE VEHICLE dvigeant@townsendwater.org 978-332-0391 for any information email or call		
U N S P S C Code Certified Required:	No	Acknowledge inclusion required:	No	Hour of Acknowledge inclusion:	0.0
Subcontractor Info:		Quote Notification:	Yes		
Date Last Updated:	08/04/2021 02:16:11 PM	User Last Updated:	David Vigeant	Item Single Award Only:	No
Ship-to Address:	David W. Vigeant 540 Main Street Townsend, MA 01474 US Email: dvigeant@townsendwater.org Phone: (978)597-2212	Bill-to Address:	David W. Vigeant 540 Main Street Townsend, MA 01474 US Email: dvigeant@townsendwater.org Phone: (978)597-2212		
Solicitation Enabled:	No	Allow vendors to submit multiple / alternate quotes:	<input checked="" type="checkbox"/>		
Invoice Method:	Three Way Match				



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Forms:

Item Information

Item # 1: Emergency Service Vehicle To be delivered no late than 17 September 2021 High Extended Van Wheelbase 156 inch or longer 20 Gallon gas tank or larger Tow Package Year 2021-2022 Rear and Side cargo Doors Rear Camera 2200 Watt power inverter Rear Bumper Step Backup Alarm Emergency Road Light amber and white Window metal mess screens Tool draw parts slider with top edge electrical shelving package Email Dvigeant@townsendwater.org Phone 978-332-0391 Townsend Water Department 540 Main St Townsend Mass 01474

2BR - Ready to Send

UNSPSC Code: 25-10-19
Specialized and recreational vehicles

Disable Pricing On Quote	Qty	Unit Cost	UOM	Total Discount Amt.	Tax Rate	Tax Amount	Total Cost
No	1.0	\$0.00	EA - Each		\$0.00	\$0.00	\$0.00
Manufacturer:	Brand:		Model:				
Make:	Packaging:						
Product Length:	Product Width:		Product Height:		Product Weight:		
UPC/ISBN:	SKU:						
Tags:	URL:						

Account Code Amount
There is no item accounting available for this item.

Pre-Bid Approval Path:

Approval Path

Delete	Order Sequence	Approver	Alternate Approver	Level	Date Requested	Date	Action	Comments
	1	David Vigeant		1	08/04/2021 02:43 PM	08/04/2021 02:44 PM	Approved (David Vigeant)	

Send Bid Actions

Option(s) ☒ Change bid status to "Sent" and notify vendors ☐ Change bid status to "Sent" only.



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Cancel Bid

Clone Bid

Print

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MASS_MASS_AWS_PROD_BUYSPED_1_bso

Ritmo America LLC

300 Acuff Road
Lake Wales, FL 33859
United States

Voice: 863-679-8655
Fax: 863-679-8685



Main St Well QUOTATION 6.1

Quote Number: 210215
Quote Date: Aug 3, 2021
Page: 1

Quoted To:

Townsend Water Dept
540 Main Street
TOWNSEND, MA 01474

Customer ID		Good Thru	Payment Terms	Sales Rep	
P20151		9/2/21	Listed Below	Tres Tuttle	
Quantity	Item	Description		Unit Price	Amount
1.00	91065718	DELTA 250 TR.V1 single ph. (120V, 50/60 Hz) w/4-wheeled butt fusion machine body, milling cutter, Easy-Life control system, heating plate & 2 lifting rollers Package includes Fusion Unit, heater, facer, support for heater/facer, carriage and instruction manual		17,745.48	17,745.48
1.00	87292304	INSERTS 2" IPS (RAM 28/DELTA250)		386.32	386.32
1.00	87292907	INSERTS 3" IPS (RAM 28/DELTA250)		386.32	386.32
1.00	87293358	INSERTS 4" IPS (RAM 28/DELTA250/RAM414)		386.32	386.32
1.00	87294154	INSERTS 6" IPS (RAM 28/DELTA250/RAM414)		386.32	386.32
1.00	87294700	INSERTS 8" IPS (RAM 28/DELTA250/RAM414)		386.32	386.32
Terms and Conditions: Prices are FOB Lake Wales, Florida (33859) Prices do not include any state or local taxes Payment Terms: Net 30 Day w/ PO with Approved Credit Account or Bank Transfer. Delivery Time: In stock ready to go!					

OPF: **Starting 10/01/2014** an Order Processing Fee (OPF) of \$ 8.00 will be added to orders less than \$ 100.00 - OPF will be waived on orders of \$100.00 and more.

RETURNS AND REFUND TERMS: Returns are accepted within 28 days from Invoice date with a 15% restocking fee calculated on the value of the returned items plus shipping costs. A RMA number is necessary in order to start the return process. Merchandise must be returned to Ritmo America LLC in the original shipping box, with all its parts and unused. Ritmo America LLC will not accept any items 28 days after Invoice date.

PAYMENT TERMS: Net 30 days unless differently noted. A 1.5% monthly finance charge will be assessed on all past due invoices.

CREDIT CARD PAYMENTS: A 3.5% fee will be added to the total value of the invoice.

Subtotal	19,677.08
Sales Tax	
Freight	
TOTAL	19,677.08

CUSTOMIZE YOUR MACHINE PACKAGE

[➔ Sign in \(/config/login.html?i=config2\)](#)

Machine

Standard Inserts

Mitered Inserts

Accessories

Request Quote



ROLLING 28

The Rolling 28 has staked its claim as the industry standard for more than 40 years. Its ease of use and rugged quality construction opened the door for the most extensive line of 8-inch fusion machines on the market. The Rolling 28 can be ordered as a Combination Unit (CU) for sidewall fusion.

The Rolling 28 incorporates an interchangeable 4-jaw carriage that can be easily removed for in-ditch fusion. For tight installations, the outer fixed jaw and skid can be removed from the carriage converting it to a 3-jaw carriage for an even more compact fusion unit.

Fusion machine, facer, heater and insulated heater stand.

- ☐ High Force, Rolling 28, High Cylinder Force, 120V CU - A860801 (<http://fusion.mcelroy.com/parts/exec?service=external/Home&sp=SA860801>)
- ☒ High Force, Rolling 28, High Cylinder Force, 120V - A860805 (<http://fusion.mcelroy.com/parts/exec?service=external/Home&sp=SA860805>)
- ☐ High Force, Rolling 28, High Cylinder Force, 240V - A860806 (<http://fusion.mcelroy.com/parts/exec?service=external/Home&sp=SA860806>)
- ☐ High Force, Rolling 28, High Cylinder Force, 240V CU - A860808 (<http://fusion.mcelroy.com/parts/exec?service=external/Home&sp=SA860808>)
- ☐ Low Force, Rolling 28, Low Cylinder Force, 100V CU - A860803 (<http://fusion.mcelroy.com/parts/exec?service=external/Home&sp=SA860803>)
- ☐ Low Force, Rolling 28, Low Cylinder Force, 120V - A860810 (<http://fusion.mcelroy.com/parts/exec?service=external/Home&sp=SA860810>)

Continue

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Bill To:
110594
TOWNSEND WATER DEPARTMENT
P.O. BOX 17
TOWNSEND, MA 01469

Ship To:
CITY OF TOWNSEND, MA
540 MAIN STREET
TOWNSEND, MA 01474

Quote Number	30021450
Quote Date	07/16/21
Expiration Date	07/23/21
Page	1 of 1

Payment Terms PREPAID	Customer Job/Project Name TOWNSEND, MA	Written By APRIL KRUEGER
Freight Terms PREPAID AND ADD	Contact KEVIN KEEFE KKEFE@TOWNSENDWATE	Sales Rep NORTHEAST - ME,MA,CT,RI,VT,NH
Ship Via Best Way	Additional Info ROLLING 28 PURCHASE	

#	Qty	UM	Product	Description	Each	Extended
1	1	EA	75280000	2" - 8" DIPS BUTT FUSION MACH HIGH FRC, 120V, 60HZ, 1PH A860805 Includes fusion machine, facer, heater, insulated heater stand and 8" IPS/DIPS insert set.	19869.93	19,869.93
2	1	EA	76520628	6" DIPS INSERT SET FOR 28 MC801525	688.20	688.20
3	1	EA	76510628	6" IPS MASTER INSERT SET 28 MACHINE 801510 (A)	856.55	856.55
4	1	EA	76520400	4" DIPS INSERT SET FOR 28/412 MC809315	577.20	577.20
5	1	EA	76510400	4" IPS INSERT SET FOR 28/412 MC809408	560.55	560.55
6	1	EA	76510328	3" IPS INSERT SET FULL SET=8 MC809304	577.20	577.20
7	1	EA	76510228	2" IPS INSERT SET FOR 28 MACH MC809204	577.20	577.20

CURRENTLY STOCK; SUBJECT TO PRIOR SALE
FREIGHT ADDITIONAL

ISCO Standard Terms and Conditions apply. Please visit <http://www.isco-pipe.com/terms-and-conditions.aspx>

Merchandise Total	Tax(1)	Freight(2)	Quote Total
23,706.83	0.00	0.00	US \$ 23,706.83
1 Sales tax will be charged based on the ship to address at the time of invoice if there is no tax certificate on file.		Accepted By: _____	
2 Freight amount in this quote is an estimate only. Actual freight terms and charges will be determined at the time the order is placed.		Printed Name: _____	
		Date: _____	

100 WITHERSPOON ST * LOUISVILLE, KY 40202
800-345-4726

HDPE SUPPLY

HDPE PIPE, FITTINGS AND FUSION EQUIPMENT

RITMO
AMERICA



QUOTE

2021

<u>U/M</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>
ea	91065718	DELTA 250 BUTT FUSION MACHINE (2" IPS - 8" DIPS) 120VAC, 50 Hz, 1 Ph also available in 230vac	\$19,851.72
Includes Fusion Unit on 4-wheeled frame and chassis, Heating Plate, Electric Facer, Support for Heater , Data Log, Instruction Manual			
STANDARD INSERT SET (1 set = 8 pieces)			
set	87292304	2" IPS Inserts	\$499.00
set	87292907	3" IPS Inserts	\$499.00
set	87293358	4" IPS Inserts	\$432.85
set	87293900	5" IPS Inserts	\$442.89
set	87294154	6" IPS Inserts	\$432.85
set	87294700	8" IPS Inserts	\$432.85
set		3" DIPS Inserts	\$432.85
set	87293237	4" DIPS Inserts	\$432.85
set	87294046	6" DIPS Inserts	\$432.85
set	87294621	8" DIPS Inserts	\$543.00

HDPE SUPPLY 715 S 59th Ave W, Duluth MN 55807

Phone 218-461-9332 Fax 218-206-8406

www.hdpesupply.com info@hdpesupply.com





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DELTA 250 TRAILER



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FEATURES

SPECIFICATION

DELTA 250 TRAILER is an electro-hydraulic butt fusion machine with fusion capabilities ranging from 2" IPS to 8" DIPS (75 mm – 250 mm) pipe sizes. It is designed for in-field fusion of HDPE pipe and fittings and other plastic pipes. RAM 28 is able to weld fittings like elbows, tees, Y - branches and flanges necks. Available in the 110 V and 230 V versions.

- ~~Wheel~~ chassis for easy maneuvering on the jobs
- Machine body and control panel can be easily removed for in ditch use
- Working range: Ø 2" IPS - 8" DIPS (75 mm – 250 mm)
- Body machine with two working position: inclined or horizontal
- On board milling cutter with safety micro switch
- Automatic Fusion Control "EASY LIFE" SMARTLock inserts
- Lateral pipe lift aids in loading and unloading pipe

ON REQUEST (ACCESSORIES)

- Tool for flange necks
- Software for data download (data logging) with serial / USB cable

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7/27/2021

DELTA 250 TRAILER - RAM - Butt Fusion Machines - Ritmo America

Ritmo America, LLC
300 Acuff Road - Lake Wales, FL
33859
Phone: 863-679-8655
Fax: 863-679-8685
info@ritmoamerica.com

CATEGORIES

Hdpe Fusion Equipment

Electrofusion Fittings

Black Hdpe Butt Fusion

Black Hdpe Socket Fusion

Yellow Hdpe Butt Fusion

Yellow Hdpe Socket Fusion

Con Stab Gas Fittings

GeoStab Geothermal Fittings

Compression Fittings

Polyethylene Fusion Pipe

Other Products

Rental Equipment

Delta 250 Trailer Butt Fusion Machine 2" - 8" Easy Life



PRODUCT DESCRIPTION

Delta 250 Trailer Butt Fusion Machine 2" - 8"



Email or Call us for a Quote!

- info@hdpesupply.com
- 218-461-9332

DELTA 250 TRAILER is an electro-hydraulic butt fusion machine with fusion capabilities ranging from 2" IPS to 8" DIPS (mm) pipe sizes. It is designed for in-field fusion of HDPE pipe and fittings and other plastic pipes. RAM 28 is able to weld elbows, tees, Y - branches and flanges necks. Available in the 110 V and 230 V versions.

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- Lateral pipe lift aids in loading and unloading pipe

ON REQUEST (ACCESSORIES)

- Tool for flange necks
- Software for data download (data logging) with serial / USB cable

RITMO

Email or Call for a Quote

SKU: 91065712

Quantity

 ADD TO WISHLIST

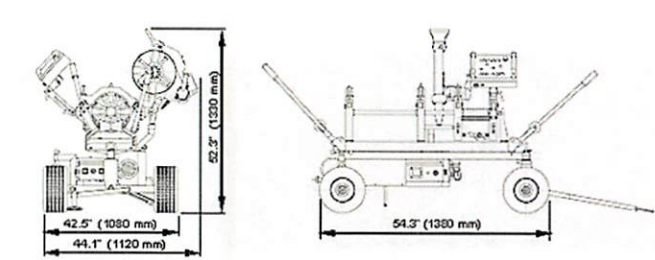
RELATED PRODUCTS

[Compare](#) [Add to Wishlist](#) [Add to Cart](#)

2 Year Ritmo Manufacturer Warranty

Specs:

Working range	2" IPS - 8" DIPS pipe (63 - 225 mm)
Overall cylinder section	1.45 in2 (9.36 cm2)
Weight	441 lbs (200 Kg)
Power supply	110V or 230 V, 50-60 Hz - 1 Ph
Maximum absorbed power	3810 W
Easy Life hydraulic unit	1100 W
Facer	710 W
Heater	2000 W
Pressure working range	0 - 2176 PSI (0 - 150 bar)
Heater working temperature	356 - 536° F (180 - 280°C)



Inserts: 2", 3", 4", 5", 6", 8" IPS and 3", 4" 6", 8" DIPS are available.

WATCH A VIDEO ON THE RITMO EXCLUSIVE EASY LIFE CONTROL SYSTEM!



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Delta 160 Butt Fusion Machine 1"
- 5"

\$3,899.95

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Delta 355 All Terrain Butt Fusion
Machine 4" - 14" Easy Life

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Electrofusion Coupling 4" IPS
230psi

\$30.29

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2" IPS SDR11
Male 304
Threaded

\$

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Butt Fusion Tee 4" IPS, DR11

\$29.30

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Delta 250 Trailer Butt Fusion
Machine 2" - 8" Easy Life

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INFORMATION

 218-461-9332
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MONDAY - FRIDAY: Office and Phone Support: 8:00am- 4:30pm CST (Central Time)
MONDAY - FRIDAY: Shipping and Warehouse: 8:00am - 4:30pm CST (Central Time)

FOLLOW US ON



PAYMENT MET





6.4

TOWNSEND WATER DEPARTMENT
540 Main Street West Townsend, Massachusetts 01474

Todd Melanson, *Chairman*
David Vigeant
Water Superintendent

Michael MacEachern, *Vice Chairman*

Christopher Jones, *Clerk*
(978) 597-2212
water@townsendwater.org

July 28, 2021

James Wood
Deluxe Corporation
12 South St
Townsend MA 01469

Mr. Wood,

On 27 July 2021 it was discovered that the fire system at 12 South St has a direct connection between potable water in the Town of Townsend water system and the non-potable water in the fire control system that pumps directly from the fire pond. This is a direct violation of Code of Massachusetts Regulations (310 CMR 22.22) Cross Connections Distribution System Protection.

- 1) **Purpose.** The Department's purpose in establishing a comprehensive distribution protection program is to prevent the contamination of drinking water to the last free flowing outlets or consumer tap. For this reason, the Department strongly advocates the elimination of all cross connection. The installation of a backflow prevention device does not eliminate a cross connection. The installation of backflow prevention devices is a protection solution when re-plumbing or re-piping is not feasible. The Installation of backflow prevention devices is a protection solution when re-plumbing or re-piping is not feasible. All cross-connection protection shall be approved and permitted in accordance with 310 CMR 22.22.
- 2) **Maintenance of a Cross Connection**
 - (a) No physical cross connection shall be maintained between the distribution system of a public water supply, the water which is which is being used for drinking, domestic, or culinary purposes, and the distribution system of a water source not approved by the Department, as being of safe sanitary quality or plumbing, fixture or devise whereby non-potable water or other substance might flow into the potable water system.

It was also found that in summer of 2020 a fire flow survey was conducted at 12 South St using the pond feed fire system. The same system was used to conduct a fire flow survey using the Townsend Distribution System water feed by the same pipes, mixing the water, and contaminating the potable water for the Town.

In conclusion, this system as is, is **UNSAFE FOR THE PUBLIC**, and needs to be addressed immediately. It is hereby asked by the Townsend Water Department that the Deluxe Corporation at 12 South St Townsend Mass cease any operation of the Fire Control Pump System using the Pond water or any other non- approved water system. Any use of this system again will be deemed as a highly dangerous and a health threat to the people of Townsend and the Water Department with take steps to terminate the service to 12 South St for public safety.

We will work closely with you to work out a permanent solution to this problem. I have talked to the Fire Department, and removing the town water from the fire system is not an option, if it was, the town would have already shut off access to the water system as requested by DEP.

The system at 12 South St was built in 1972 and the Town water main on South St was a 6in cast iron line, at the end of the distribution system feed by a single town source at 512 Main St.

Today the Town water main on South St is a 12 inch, HDPE main, with 5 wells in the water system and the main supply of water goes down South St with near 100 PSI of pressure. As of today, there is more than adequate supply on South St to meet your needs.

This will be considered an emergency repair to your water system if you need to upgrade the small section of 6 in pipe that goes into the property and no permitting fees would apply. We will work with you and help you out as much as possible for you to complete the change if needed.

It is assumed that no one now or in the past knew the gravity of the situation and that we go forward looking for a positive solution to a very bad situation.

Your cooperation with this is greatly appreciated.

Thank you,

Superintendent, David W Vigeant

Townsend Water Department

540 Main St, Townsend Mass 01474

Cell 978-332-0391 Office 978-597-2212

Email DVigeant@townsendwater.org

/dwv

CC: Townsend Board of Water Commissioner's, Townsend Board of Selectmen, Townsend Board of Health, Townsend Fire Dept

FISCAL YEAR 22 SUMMARY
TOWNSEND WATER DEPARTMENT - ACCOUNTS RECEIVABLE
July 31, 2021

UNCOLLECTED FROM JUNE 30, 2021

68,102.18

<u>CHARGED</u>	<u>07/01/21</u>	<u>07/31/21</u>	<u>7/31/2021</u>	<u>Previous Balance</u>	<u>Total</u>	
USER CHARGES			322,479.87		322,479.87	
FEES			550.00		550.00	
SERVICE CHARGES			5,580.00		5,580.00	
BACKFLOW			385.00		385.00	
SUBTOTAL			328,994.87			
TOTAL CHARGES						328,994.87
						397,097.05

<u>RECEIVED</u>	<u>07/01/20</u>	<u>07/31/21</u>	<u>7/31/2021</u>			
USER CHARGES			234,187.00		234,187.00	
FEES			357.78		357.78	
SERVICE CHARGES			4,768.46		4,768.46	
LATE CHARGES			286.93		286.93	
BACKFLOW			177.10		177.10	
SUBTOTAL			239,777.27			
TOTAL RECEIPTS						239,777.27

SENT TO LIEN						
LIENS COLLECTED						
ABATEMENTS						0.00
ADJUSTMENTS						-86.53
AJD TO MASTER						
UNCOLLECTED						157,406.31
						397,097.05

<u>OUTSTANDING:</u>						
USER CHARGES			153,566.89			
FEES			275.00			
SERVICE CHARGES			1,909.33			
LATE CHARGES			1,434.42			
BACKFLOW			220.67			
TOTAL OUTSTANDING			157,406.31			