

ADDENDUM NO. 1

August 3, 2018
223490

**RE: PEACHAM FIRE DISTRICT 1
WATER SYSTEM IMPROVEMENTS**

FROM: DuBOIS & KING, INC.
P.O. Box 339
Randolph, Vermont 05060
(802) 728-3376

TO: Prospective Bidders

This Addendum forms part of the Contract Documents and modifies the original Bidding Documents issued by the Peacham Fire District 1, Water System Improvements Project, dated July 17, 2018. **Acknowledge receipt of this Addendum in the space provided on Page 1 of the Bid Form. Failure to do so will subject the Bidder to disqualification.**

I. Pre-Bid Meeting

A Pre-Bid meeting was held at the Peacham Town Hall on July 27, 2018 at 9:00 a.m. Attendees are listed on the attached Pre-Bid Meeting Attendance Log. Chuck Goodling, P.E., of DuBois & King, Inc. described key elements of the project. **The following addresses questions received at the pre-bid meeting, as well as subsequent questions from prospective bidders.**

II. Contract Documents (Plan) Changes

REVISED sheets C13 and C14 are included as part of this Addendum and replace the corresponding original sheets in the Bid Documents.

III. Contract Documents (Specification) Changes

REVISE Section 01150 – Measurement and Payment 3.02.A.17 to include the following statement: Add Alternate 2 shall also include providing startup assistance to the Owner on the first day of operation.

IV. Questions & Answers

Question 1: Is there any further definition of the SCADA/control modifications beyond the notes on the plans?

Answer 1: Additional information has been provided on the attached revised Sheets C13 and C14.

ADDENDUM NO. 1

August 3, 2018

Page 2 of 5

Question 2: Does the pump that is specified meet the AIS requirements?

Answer 2: According to the State of Vermont guidance on AIS provisions, pumps are not subject to AIS requirements.

Question 3: Where the pipe crosses roads, can horizontal directional drilling (HDD) be used in lieu of open cut?

Answer 3: The Contractor may propose to utilize a HDD technique to cross roads. A submittal is required to identify all details associated with this proposal including such information as pipe strength design details, materials of construction, location and size of entrance and exit points, and other related installation details. The Engineer and Owner will review this submittal and provide a determination of acceptability. The costs for all related materials, equipment and labor will be considered incidental to the unit price for water main and water service installation (i.e., separate pay items for HDD installation have not been established).

NOTE: As HDD was not included in the project description, to our knowledge, the DBE notification distributed by DuBois & King did not specifically include DBE contractors that perform HDD services. It is suspected that there are DBE's that can provide this service. If the Contractor intends to utilize HDD for pipe installation, the Contractor shall make a good faith effort to solicit pricing from DBE's that provide this service.

Question 4: Where is the Chlorine Monitor installed?

Answer 4: See the attached revised Sheet C14.

Question 5: Where is the Mission control panel installed?

Answer 5: See the attached revised Sheet C14.

Question 6: Is a trailer required for the Engineer?

Answer 6: No.

Question 7: Are new water services plastic or copper?

Answer 7: The Pipe Schedule 02605-1 identifies new water services as polyethylene (PE).

Question 8: Do new water services tie into existing water services at the road right-of-way line?

Answer 8: Yes. And a new curb stop is also located at the point of connection, at the road right-of-way line. See "Water Service Connection Detail" on Sheet C10.

ADDENDUM NO. 1

August 3, 2018

Page 3 of 5

Replacement of existing house services beyond the road right-of-way line is not part of this project.

Question 9: Does anyone have an idea as to the existing main material?

Answer 9: The majority of the existing water main is suspected to be Cast Iron, approximately 100 years old. The Contractor shall be responsible for maintaining water service, repairs, connections, etc., regardless of the actual materials of construction that are encountered.

Question 10: What is the material for the existing house services?

Answer 10: House services are suspected to be primarily galvanized, if original. Services that have been recently replaced are typically copper. The Contractor shall be responsible for maintaining water service, repairs, connections, etc., regardless of the actual materials of construction that are encountered.

Question 11: What is the limit for the service, i.e. if galvanized how far do we go to connect and how does it get paid for?

Answer 11: Connections between existing water service pipe and new water service pipe will generally occur at the limit of the road right-of-way. All existing service locations are shown in an approximate way based on the existing curb stop locations; the actual service locations may vary, and shall be verified by the Contractor. A new curb stop will be installed at each of these locations. Pressure, leakage and disinfection testing will include the main and all new services to the curb stop. The bid form includes estimated quantities for water service piping and curb stops. In the event the existing water service pipe beyond the point of connection is in poor condition, the homeowner is responsible for any further improvements beyond the road right-of-way limit.

Question 12: Who is the power company in Peacham as there are two that service the community and do you have a contact?

Answer 12: Determination and coordination is the responsibility of the Contractor, but we understand Green Mountain Power serves the village area and Washington Coop serves the tank/control building location. We do not have a specific contact at either.

Question 13: What should be done with the existing maple trees near the meter pits?

Answer 13: If removal is necessary, the Contractor should attempt to save the root balls of the trees so that the trees can be transplanted (transplanting by Others).

ADDENDUM NO. 1

August 3, 2018

Page 4 of 5

V. Additional Information

- a. A DRAFT of the Permit to Construct has been received. This is attached to this Addendum and hereby made a part of the Contract Documents. The Contractor shall review the conditions and incorporate into the project as required.
- b. Don Haddox from the VT Facilities Engineering Division provided an overview of the federal requirements associated with this project. Generally summarizing, these include:
 - Davis Bacon/Federal Wage Rates
 - Disadvantage Business Enterprise
 - American Iron and Steel

Don identified the following website as providing good information to Contractors associated with American Iron and Steel requirements:

<https://www.epa.gov/cwsrf/state-revolving-fund-american-iron-and-steel-ais-requirement>

- c. All questions are due by August 1, 2018 by 5:00pm.
- d. The Engineers Estimate is in a range between \$305,000 and \$325,000.
- e. The Contractor is responsible for identifying staging areas based on needs. If staging areas are on private property, the Contractor must secure written permission from the landowner and provide a copy of that written permission to the Engineer. The Owner has identified a potentially available site near the Town Office at an empty apartment building. Peacham Community Housing owns the building. It was noted that the Town Garage is approximately 3 miles away from the downtown area.
- f. Questions were asked about the adequacy of the identified schedule. Based on this feedback, **the Contract Duration is hereby REVISED** from 44 consecutive calendar days **to 75 consecutive calendar days.**
- g. If necessary, a winter shutdown period can be incorporated into this schedule via change order. Any costs associated with a winter shutdown shall be considered incidental to the existing pay items – no additional payment will be made resulting from a winter shut down. Where pavement is required to be installed, all pavement shall be installed prior to a winter shutdown. If temporary pavement is used, this shall be considered incidental to the existing pavement pay item – no additional payment will be made resulting from the Contractor's use of temporary pavement.
- h. It is noted that one home (near the meter vault location) currently utilizes a temporary water service connection from a neighboring home, which is not suitable for winter operation. If a winter shutdown is necessary, Contractor shall

ADDENDUM NO. 1

August 3, 2018

Page 5 of 5

install a permanent, buried, “winterized” water service to this home and place it into service prior to onset of winter conditions.

- i. It is further noted that a buried telephone line is in the vicinity of the meter pits. The Contractor is responsible for coordinating with the utility owner to have the actual location marked in the field, and protecting this utility as required throughout the course of the work.
- j. The Disadvantaged Business Enterprises (DBE’s) that have expressed interest in this project include the following:

ACAD24/A-NuSIGN
781 Rice Farm Road
Dummerston, Vermont 05301-9569
Contact: Melvin L. Mayo
802-698-7635
mlmayo24vt@yahoo.com

LPD Traffic Control, LLC
106 Cheney Road
Barre, Vermont 05641
Contact: Lisa P. Donahue
802-505-3859
LPDTRAFFICCONTROL@GMAIL.COM

This document constitutes Addendum 1 for this project.

PRE-BID MEETING

**PEACHAM FIRE DISTRICT 1
WATER SYSTEM IMPROVEMENTS
PEACHAM, VERMONT
223490-4A**

July 27, 2018

9:00 AM

ATTENDANCE LOG

(Please Print)

NAME	AFFILIATION & TITLE	PHONE #	E-MAIL ADDRESS
LEE TUOTSON	N. A. MANOS H	888-5722	leet@manosh.com
Rob McLaren	Ferguson Water Works	922-0982	Rob.mclaren@Ferguson.com
JAMES FARNSWORTH	Munson HORTS Moving	863-6391	JFarnsworth@munsonearth.com
LARRY JENSEN	PFD#1 WATER OP	592-3940	JENSENVT@FAIRPOINT.NET
Jonathan KAPLAN	PFD#1 Chair; Incident Commander	751-9903	Jonathan.Kaplan@Northamherst.edu
Donald W. Mucherino	G.M. Bowen	456-7049	BwConteCalais@AOL.com
Don Haddox	VT-FED	760-0370	don.haddox@vermont.gov
Hugh Albright	Dale E. Percy Inc	253-8503	hughe.dalepercyinc.com
Michele Gaboriau	G+N Excavation Pres.	496 3735	mgaboriau@gnavt.net
Chuck Goodling	DuBois & King, Inc	(802) 728-3376	cgoodling@dubois-king.com



Vermont Department of Environmental Conservation
Agency of Natural Resources
Drinking Water and Groundwater Protection Division
One National Life Drive - Main 2 [phone] 802-828-1535
Montpelier, VT 05620-3521 [fax] 802-828-1541
<http://dec.vermont.gov/water>

PUBLIC WATER SYSTEM CONSTRUCTION PERMIT
Community

PROJECT # C-3577-18.0
WATER SYSTEM: Peacham Fire District No. 1

PIN # SJ96-0011
WSID #VT0005042

PERMITTEE: Peacham Fire District No. 1
Attn: Jonathan D. Kaplan
ADDRESS: PO Box 218
Peacham, VT 05862

PROJECT NAME: Peacham Fire District No. 1 Water System Improvements
TOWN LOCATION: Peacham, VT

This permit is issued by the Vermont Department of Environmental Conservation, Drinking Water and Ground Water Protection Division (the Division), under the authority 10 V.S.A., Chapter 56, to be constructed in accordance with the technical standards specified under the Vermont Water Supply Rule, Chapter 21, last revised December 1, 2010.

The applicant proposes to make several improvements to the water system including replacing small diameter cast iron distribution main and modifying the existing storage reservoirs and control building.

This project/activity requires a construction permit because it involves the construction, alteration, renovation, or conversion of a Public Water System by installing greater than 500 lineal feet (lf) of new piping and making improvements to the existing storage reservoirs and control building, which will affect the quality or quantity of the water to be delivered by the Public Water System, as described by Subchapter 21-4, Section 4.01 of the Vermont Water Supply Rule, Chapter 21.

Subject to the conditions included herein, the Permittee, Peacham Fire District No. 1 (WSID #VT0005042), is authorized to: replace approximately 2,700 lf of 3-inch cast iron distribution main with 4-inch C900 PVC piping and associated appurtenances on South Main and Church Streets, Bayley Hazen Road, and Old Cemetery Road; add three new flushing hydrants; install a standby power connector and transfer switch on the control building; improve the overflow piping and associated drains for the two storage reservoirs; relocate the raw water sample tap to the first floor of the control building for ease of operator use; install double check valves to prevent backflow from the storage reservoirs when the raw water samples are collected; and add remote control and monitoring of water levels in the two storage reservoirs and the choice and sequencing of the three water sources. The control package will include a Remote Telemetry Unit, reservoir level transducer,

To preserve, enhance, restore, and conserve Vermont's natural resources, and protect human health, for the benefit of this and future generations.

pump starters, and a continuous online chlorine residual analyzer. The project scope is shown on the approved design documents identified in Section A.2 of this Permit.

This permit is based on a review that determined that the proposed project, if built in accordance with the approved plans and specifications, will conform to the Vermont Standards for Water System Design, Construction, and Protection (Design and Construction Standards) contained in Appendix A of the Vermont Water Supply Rule (Rule), and will therefore not constitute a public health hazard or a significant public health risk. The review did not, however, include the structural engineering aspects of this project.

A. Standard Conditions

1. If petroleum hydrocarbon and/or chlorinated solvent contaminated soils are encountered during any phase of construction, distribution main pipe materials must be ductile iron pipe with fluorocarbon elastomer gaskets, water service piping must be copper pipe, and all other appurtenances shall be of material resistant to contamination. *The Co-permittees shall notify the Waste Management Division at (800) 641-5005 or (802) 828-1138 within 12 hours of encountering contaminated soils during this project.*

2. The project shall be constructed, tested, and inspected in accordance with this permit and the approved engineering drawings and specifications prepared by Dubois & King, Inc. listed below:

Documents Reviewed as part of Permit Application		
Document Name	Document Date	Last Revision Date
Preliminary Engineering Report	Approved Feb. 26, 2018	-
Drawings C1, C2, C3, C4, C5	3-23-2018	-
Drawings C6, C7, C8, C9	3-23-2018	04-28-2018
Drawing C10	3-23-2018	-
Drawings C11, C12, C13, C14	3-23-2018	04-28-2018
Specifications	March 26, 2018	-
Correspondence	June 25, 2018 & June 28, 2018	-

The total number of engineering drawings received by the Vermont Department of Environmental Conservation (Department) for this project is **fourteen (14)**.

These plans are approved based upon certification by the design engineer that the plans conform to the Design and Construction Standards of the Vermont Water Supply Rule.

3. All construction on this project must be completed by **July 31, 2020**. If construction has not been completed by that date, this permit shall expire, and a new permit must be obtained before construction can continue.
4. No new or modified water service connections shall be constructed without first receiving a determination by the Department whether a Wastewater System and Potable Water Supply Permit is required.
5. Field inspection of the project shall be performed under the responsible charge of a Vermont licensed professional engineer.
6. Prior to being placed in operation, the newly constructed portions of the Water System shall be flushed, pressure tested, disinfected, and flushed again. After this procedure, at least two samples must be collected from representative sample points and sent to the Vermont Department of Health Laboratory at 359 South Park Dr., Colchester, VT 05446 (or any other Vermont Department of Health certified laboratory) for Bacteriological Examination of Public Water Supply. The Permittee shall indicate on the laboratory form that it is for Construction Permit compliance. Coliform Absent sample results are required before the system may be placed "on line" for potable water use. The pressure/leakage and bacteriological test results shall be submitted to the Department of Environmental Conservation along with the Record Drawings.
7. An Operation and Maintenance (O&M) Manual addressing all work authorized by this permit must be submitted by the Permittee to the Department within 60 days of final project field inspection and approval by the responsible professional engineer.
8. Record drawings shall be prepared by the professional engineering firm responsible for observation of construction and shall depict the system as it was constructed, including any field modifications. Record Drawings shall be dated, contain the engineer's Construction Certification, shall include the professional engineer's seal and signature, and shall be submitted to the Department and the Peacham Fire District No. 1 (WSID #VT0005042), within 60 days of final field inspection and approval by the responsible professional engineer.
9. The following Construction Certification shall be prepared by the professional engineering firm responsible for observation of construction:
 - i. "I hereby certify that in the exercise of my reasonable professional judgment the construction-related information submitted is true and correct and that the components of the public water system authorized by the Public Water Supply Construction Permit # C-3577-18.0:

1. Were installed in accordance with:
 - a. The permitted design and all permit conditions; or
 - b. Record Drawings and such Record Drawings are in compliance with the applicable rule, were filed with the Secretary, and are in accordance with all other permit conditions;
 2. Were inspected;
 3. Were properly tested; and
 4. Have successfully met those performance tests.”
10. Until the construction authorized by this permit has been completed and the Record Drawings have been submitted, this permit is not transferable or assignable and it shall automatically become invalid upon a change of ownership or upon suspension or revocation.
 11. No changes shall be made to the permitted project without the written approval of the Department. A new or amended Construction Permit is required for all significant system improvements, or modifications for the Water System pursuant to Subchapter 21-4, Section 4.0.1 of the Rule and shall conform to the Design and Construction Standards.
 12. By acceptance of this permit, the Permittee agrees to allow representatives of the State of Vermont access to the project, at reasonable times, for the purpose of ascertaining compliance with Vermont environmental laws and this permit.
 13. Pursuant to 10 V.S.A. Chapters 56, 201 and 211, any violation of the terms and conditions of this permit, including any compliance schedule, is grounds for the initiation of an enforcement action by the State against the Permittee.
 14. This permit may be appealed to the Environmental Division of the Superior Court within 30 days of the date of the decision in accordance with 10 V.S.A., Chapter 220.

Signed at Montpelier, VT this _____ day of _____, 2018

Emily Boedecker, Commissioner
Department of Environmental Conservation

By: _____
Bryan Redmond, Division Director
Drinking Water and Groundwater Protection Division

Construction Permit C-3577-18.0
Peacham Fire District No. 1
Water System Improvements
Page 5 of 5

cc: Permittee by Email: Peacham Fire District No. 1 – Attn: Jonathan Kaplan
<jonathan.kaplan@lyndonstate.edu>
Designated Operator – Lawrence Jensen <jensenvt@fairpoint.net>
Dubois & King, Inc. – Jonathan Ashley, PE <jashley@dubois-king.com> and
Michael Mainer, PE <mmainer@dubois-king.com>
Rich Wilson, Sue Cross, St. Johnsbury Regional Office – DEC/DWGPD
Don Haddox, Ashley Lucht – DEC/FED
Ellen Parr-Doering, Tim Raymond, Pat Smart – DEC/DWGPD
Helen Banevicius, Theresa Petzoldt, Cindy Parks – DEC/DWGPD
WSID VT0005042

cap

DRAFT



NO.	8-3-2018	DATE
ADDENDUM #1		DESCRIPTION
JBA		CK'D
TJD		BY

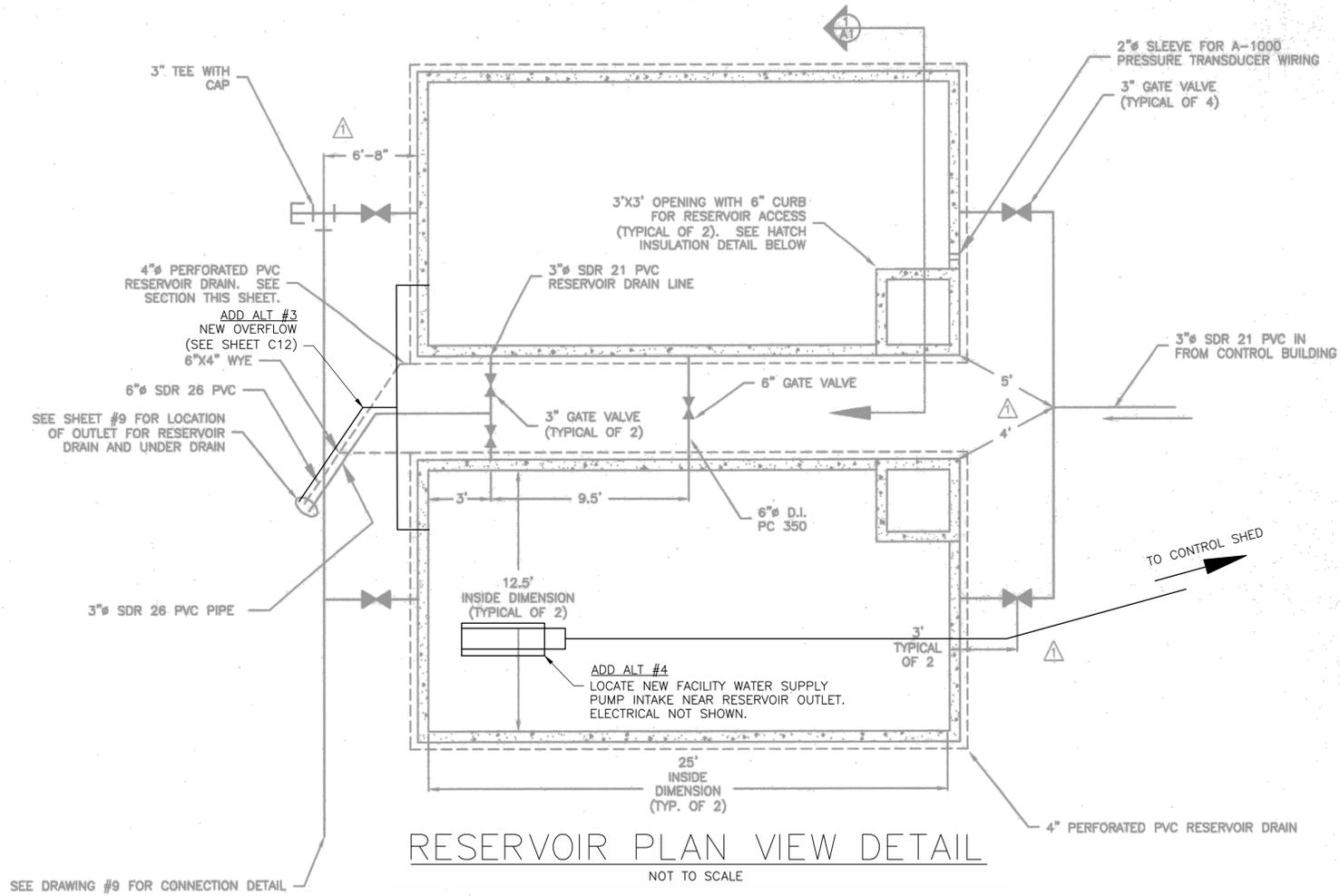
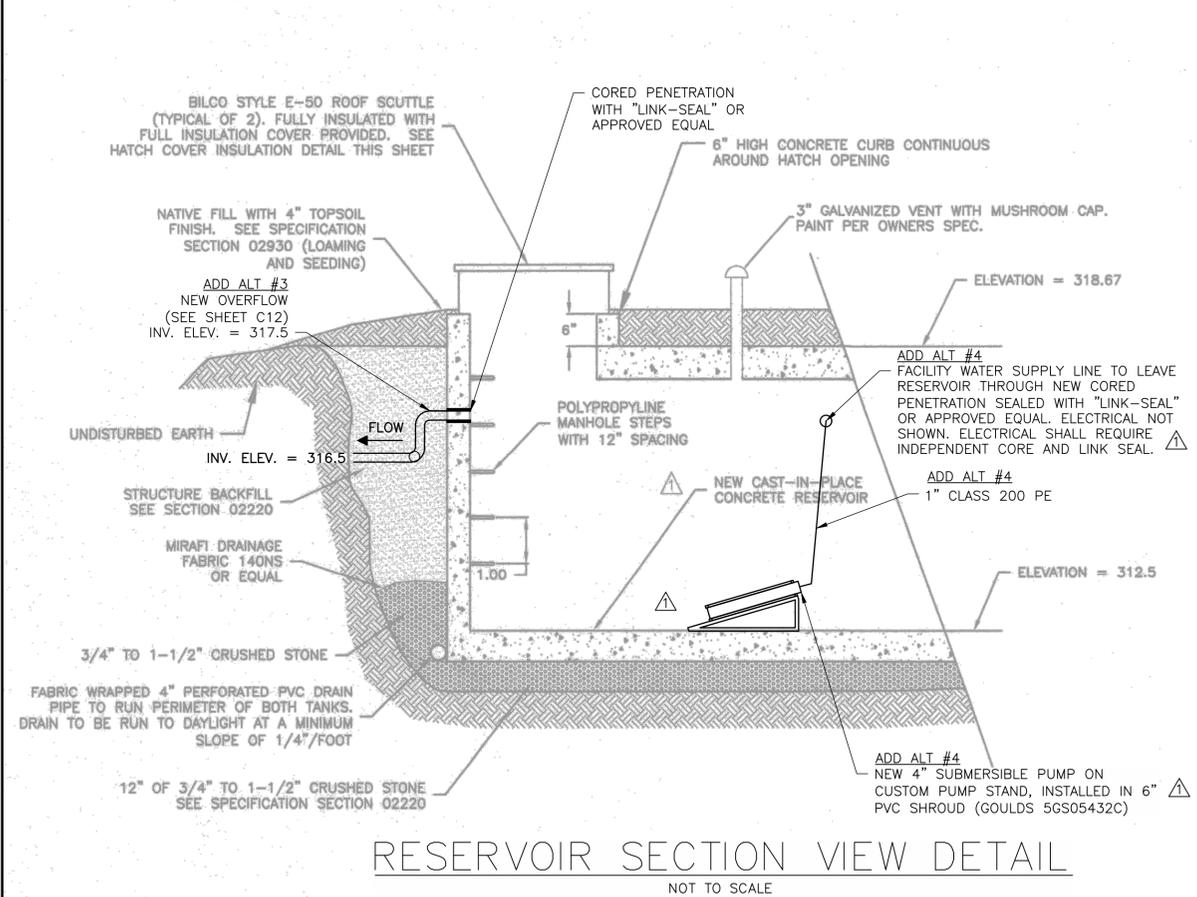
CLIENT
**PEACHAM FIRE DISTRICT 1
PEACHAM, VT 05862**

PROJECT
WATER SYSTEM IMPROVEMENTS

SHEET TITLE
RESERVOIR IMPROVEMENTS PLAN

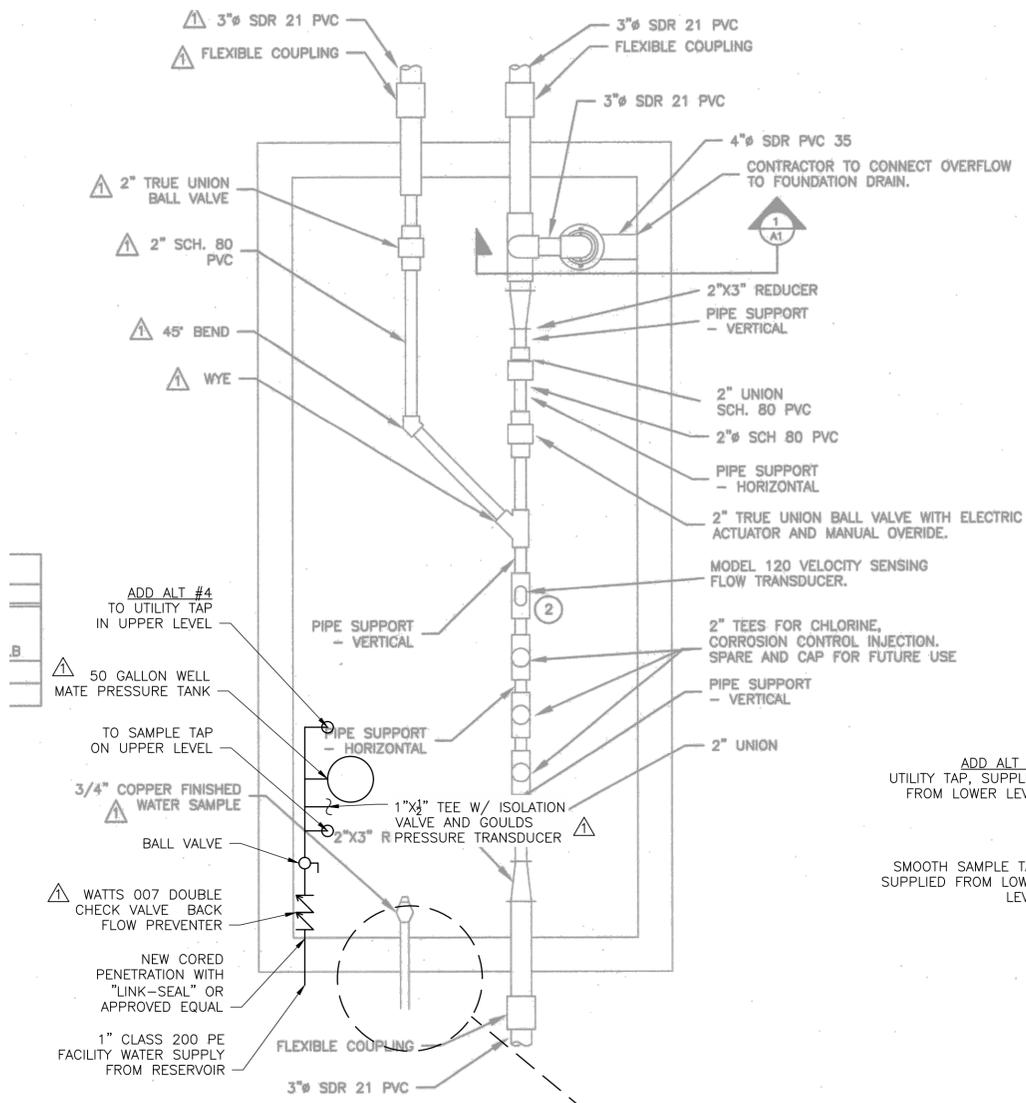
DRAWN BY EBS/AJS	DATE July 6, 2018
CHECKED BY MJM	D&K PROJECT # 223490
PROJ. ENG. JBA	D&K ARCHIVE #

SHEET NUMBER
C13



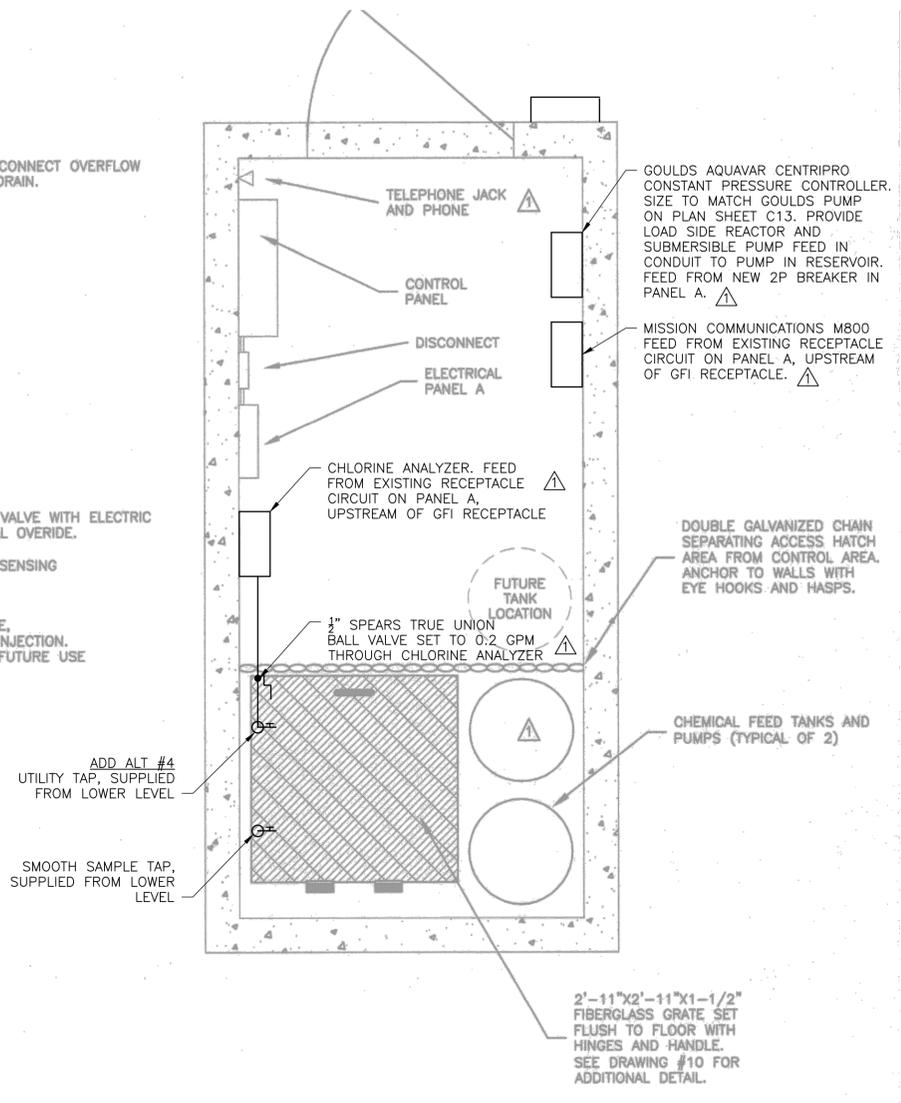
- NOTES:
- RESERVOIR PLAN BASED ON GREEN MOUNTAIN ENGINEERING DRAWING PROVIDED BY THE SYSTEM OWNER LAST DATED 1/04/00 AND REVISED 11/7/00. SITE PLAN DOES NOT ACCURATELY DEPICT GRADES AROUND RESERVOIR TANKS AND CONTROL BUILDING.
 - PRIOR TO PLACING RESERVOIRS BACK INTO SERVICE, RESERVOIRS AND PIPING SHALL BE THOROUGHLY CLEANED AND DISINFECTED PER AWWA 651, AND TESTED WITH 2 BACTERIA SAMPLES SHOWING ZERO BACTERIAL CONTAMINATION.

I:\223490 peacham fire district 1 water system\dwg\223490-SK02.dwg 8/2/2018 3:53 PM

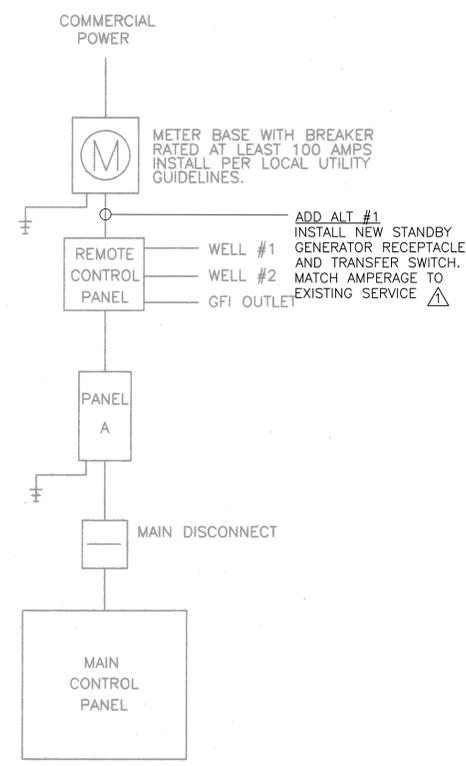


BASEMENT PIPING PLAN
SCALE: 3/4"=1'

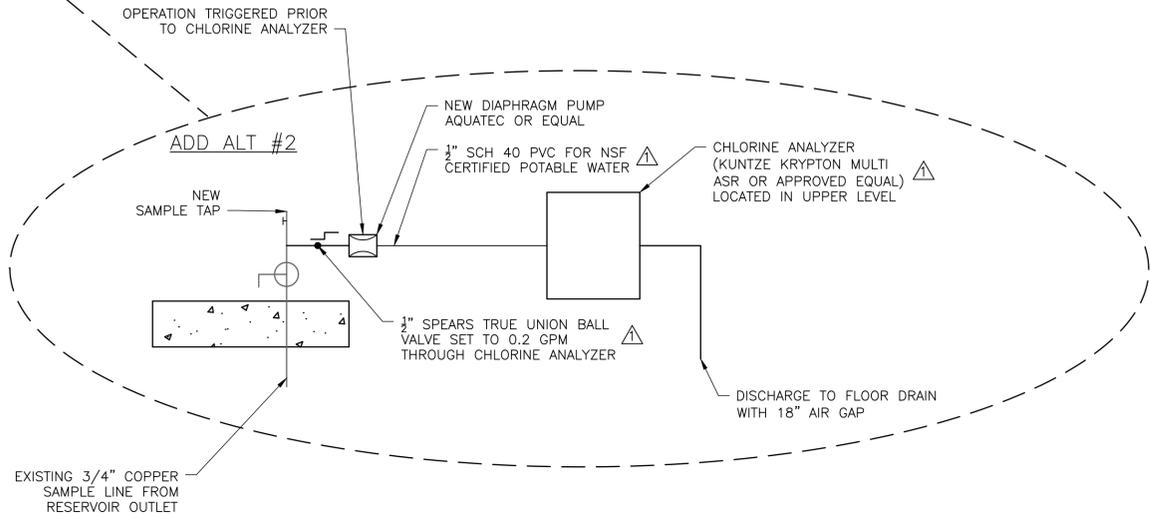
BASEMENT PIPING PLAN
NOT TO SCALE



FIRST FLOOR PLAN
NOT TO SCALE: 3/4"=1'



ELECTRICAL DIAGRAM
NOT TO SCALE



- NOTES:**
- BASEMENT AND FIRST FLOOR PLAN BASED ON GREEN MOUNTAIN ENGINEERING DRAWING PROVIDED BY THE SYSTEM OWNER LAST DATED 2/5/00 AND REVISED 1/30/01. SITE PLAN DOES NOT ACCURATELY DEPICT GRADES AROUND RESERVOIR TANKS AND CONTROL BUILDING.
 - ELECTRICAL DIAGRAM BASED ON GREEN MOUNTAIN ENGINEERING DRAWING PROVIDED BY THE SYSTEM OWNER LAST DATED 2/8/00 AND LAST REVISED 1/30/01.
 - PRIOR TO PLACING RESERVOIRS BACK INTO SERVICE, RESERVOIRS AND PIPING SHALL BE THOROUGHLY CLEANED AND DISINFECTED PER AWWA 651, AND TESTED WITH 2 BACTERIA SAMPLES SHOWING ZERO BACTERIAL CONTAMINATION.
- ADD ALT #4 NOTES:**
- PROVIDE VARIABLE SPEED PUMP DRIVE & PRESSURE TRANSDUCER (NOT SHOWN). PUMP DRIVE SHALL BE GRUNDFOS CU301 OR APPROVED EQUAL, LOCATED IN UPPER LEVEL.

NO.	DATE	DESCRIPTION	BY	CHK'D
1	8-3-2018	ADDENDUM #1	TJD	JBA

CLIENT
PEACHAM FIRE DISTRICT 1
PEACHAM, VT 05862

PROJECT
WATER SYSTEM IMPROVEMENTS

SHEET TITLE
CONTROL BUILDING IMPROVEMENTS PLAN

DRAWN BY EBS/AJS	DATE July 6, 2018
CHECKED BY MJM	D&K PROJECT # 223490
PROJ. ENG. JBA	D&K ARCHIVE #

SHEET NUMBER

C14

I:\223490 peacham fire district 1 water system\dwg\223490-SK02.dwg 8/2/2018 3:53 PM