CONSTRUCTION INC.
SITE DEVELOPMENT, EXCAVATION, DEMOLITION
WATER AND SEWER SYSTEMS
AGGREGATE OPERATIONS

Solid Waste Management
Landfill Sitework and Closures
8 U.S. ROUTE 4 EAST, MENDON, VERMONT 05701 802/773-0052
FAX 802/747-7992

Submittal

To: State of Vermont Agency of Transportation
Southwest Regional Construction Office
61 Valley View
Mendon, VT 05701

Date: June 2, 2015
Project: Shrewsbury STP 1443 (44)

Contract: Shrewsbury STP 1443 (44)

Attention: Tim Pockette (RE), Bill Farley (Asst CEE)

From: Jeff Chase

Copies	CCI Submittal Number	Specification Section	Description
Electronic	1	900.645	Special Provision Maintenance of Existing Water Flows – Revision 1

Contractors Review and Comments

Reviewed By: Jacob Robinson/Jeff Chase

Comments: The attached Temporary Water Service Plan was prepared by Ruggles Engineering. Also attached a agreement between CCI and the Fillmore's that this plan is acceptable to them. There will be additional work to the permanent line that is not shown on these plans and is outside the limits and scope of this project. There is a agreement in place between CCI and Fillmore's for this permanent waterline work, available upon request.

Engineers Review Stamp and Comments

casella
CONSTRUCTION INC.
SITE DEVELOPMENT, EXCAVATION, DEMOLITION
WATER AND SEWER SYSTEMS
AGGREGATE OPERATIONS

Solid Waste Management
Landfill Sitework and Closures
8 U.S. ROUTE 4 EAST, MENDON, VERMONT 05701 802/773-0052
FAX 802/747-7992

May 29, 2015

Todd M. & Deirdre Fillmore
167 Lincoln Hill Rd.
Shrewsbury, VT 05738

RE: Maintenance of Existing Water Flows

Dear Todd and Deirdre,

In July of this year Casella Construction, Inc. (CCI) will be replacing the road culvert to the east of your shop and home on Lincoln Hill Road with a precast concrete arch. This is Vermont Agency of Transportation project Shrewsbury STP 1443 (44). As you are aware your well water line runs over the existing culvert. In order to replace the culvert we will need to temporary relocate your waterline. Attached is a plan showing the temporary relocation of the line. Within the project limits we will reinstall permanent water in the same location the existing one located. We will make sure there is a minimum of 5' of cover (top and bottom) on the pipe. If not permutable due to unforeseen condition we will install 2" ridged insulation and maintain a minimum 3.5'.

Please review the attached plan. If acceptable please sign below and return.

Sincerely,

Jeff Chase
Project Manager
Casella Construction, Inc.
Jeff.chase@casellainc.com
Cell (802) 282-1607

Agreed Upon by:

Todd M. Fillmore, Property Owner

5/30/15
Date

casella
CONSTRUCTION INC.
SITE DEVELOPMENT, EXCAVATION, DEMOLITION
WATER AND SEWER SYSTEMS
AGGREGATE OPERATIONS

Solid Waste Management
Landfill Sitework and Closures
8 U.S. ROUTE 4 EAST, MENDON, VERMONT 05701 802/773-0052
FAX 802/747-7992

Deirdre Fillmore, Property Owner

5/30/15
Date

TEMPORARY WATER LINE NOTES:

1. PRIOR TO STARTING WORK, AT LEAST 48 HOURS OF ADVANCED NOTICE WILL BE GIVEN FOR WATER LINE DISRUPTION. A BACTERIA TEST WILL BE SAMPLED PRIOR TO SYSTEM MODIFICATIONS.

2. THE PLAN DEVELOPED HAS BEEN DESIGNED TO LIMIT DISRUPTION TO LESS THAN 8 HOURS.

3. SPARE PARTS WILL BE AVAILABLE PRIOR TO CUTTING INTO THE EXISTING PIPE. BOTTLED WATER WILL ALSO BE AVAILABLE TO RESIDENT.

4. MATERIALS WILL INCLUDE NSF APPROVED, ASTM D 2239, PE3608, SDR11 TUBING BY FLYING W PLASTIC OR EQUAL.. BRASS WILL BE NO LEAD, AS MANUFACTURED BY CAMBRIDGE BRASS OR EQUAL.

5. CONNECT TO EXISTING WATER LINE WITH IPS COUPLING, CURB STOP AND TEE (SEE PHASE 1, SHEET 2).
   A. LOCATE UPSTREAM SHUT OFF. IF NO UPSTREAM VALVE EXISTS, AND PIPE CAN BE CRIMPED, INSTALL BALL VALVE WITH FLOWING WATER.
   B. SWAB CONNECTIONS WITH WATER/CHLORINE SOLUTION (200PPM MIN.) RECONNECT EXISTING PIPE AND FLUSH OUT OF NEW TEE AND CURB STOP CONNECTION. VERIFY CURB STOP DOES NOT LEAK PRIOR TO TESTING.
   C. NO THRUST RESTRAINT IS PROPOSED FOR THE SMALL DIAMETER PIPE WITH CTS COMPRESSION FITTINGS.

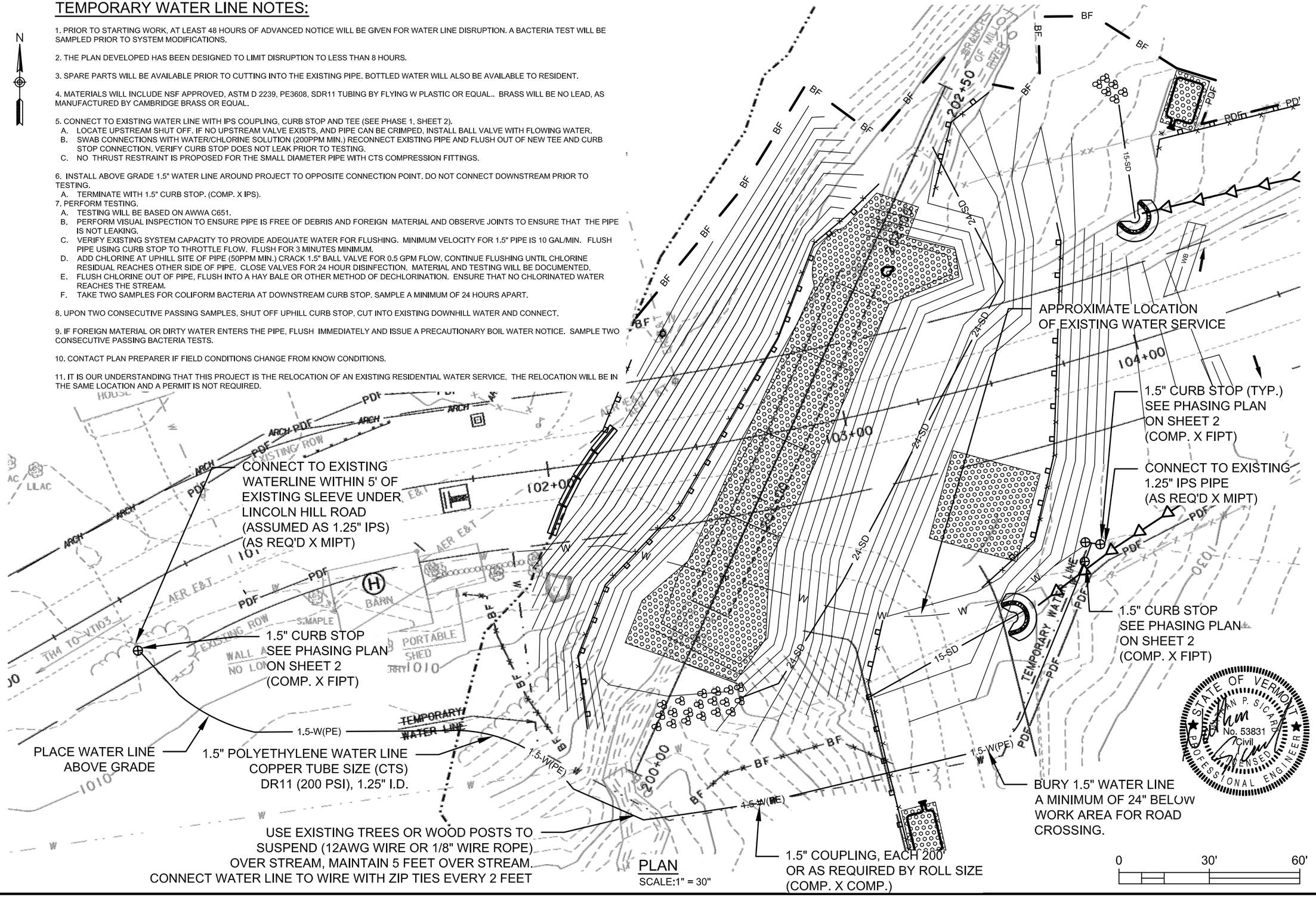
6. INSTALL ABOVE GRADE 1.5" WATER LINE AROUND PROJECT TO OPPOSITE CONNECTION POINT. DO NOT CONNECT DOWNSTREAM PRIOR TO TESTING.
   A. TERMINATE WITH 1.5" CURB STOP. (COMP. X IPS).
7. PERFORM TESTING.
   A. TESTING WILL BE BASED ON AWWA C651.
   B. PERFORM VISUAL INSPECTION TO ENSURE PIPE IS FREE OF DEBRIS AND FOREIGN MATERIAL AND OBSERVE JOINTS TO ENSURE THAT THE PIPE IS NOT LEAKING.
   C. VERIFY EXISTING SYSTEM CAPACITY TO PROVIDE ADEQUATE WATER FOR FLUSHING. MINIMUM VELOCITY FOR 1.5" PIPE IS 10 GAL/MIN. FLUSH PIPE USING CURB STOP TO THROTTLE FLOW. FLUSH FOR 3 MINUTES MINIMUM.
   D. ADD CHLORINE AT UPHILL SITE OF PIPE (50PPM MIN.) CRACK 1.5" BALL VALVE FOR 0.5 GPM FLOW, CONTINUE FLUSHING UNTIL CHLORINE RESIDUAL REACHES OTHER SIDE OF PIPE. CLOSE VALVES FOR 24 HOUR DISINFECTION. MATERIAL AND TESTING WILL BE DOCUMENTED.
   E. FLUSH CHLORINE OUT OF PIPE, FLUSH INTO A HAY BALE OR OTHER METHOD OF DECHLORINATION. ENSURE THAT NO CHLORINATED WATER REACHES THE STREAM.
   F. TAKE TWO SAMPLES FOR COLIFORM BACTERIA AT DOWNSTREAM CURB STOP. SAMPLE A MINIMUM OF 24 HOURS APART.

8. UPON TWO CONSECUTIVE PASSING SAMPLES, SHUT OFF UPHILL CURB STOP, CUT INTO EXISTING DOWNHILL WATER AND CONNECT.

9. IF FOREIGN MATERIAL OR DIRTY WATER ENTERS THE PIPE, FLUSH IMMEDIATELY AND ISSUE A PRECAUTIONARY BOIL WATER NOTICE. SAMPLE TWO CONSECUTIVE PASSING BACTERIA TESTS.

10. CONTACT PLAN PREPARER IF FIELD CONDITIONS CHANGE FROM KNOW CONDITIONS.

11. IT IS OUR UNDERSTANDING THAT THIS PROJECT IS THE RELOCATION OF AN EXISTING RESIDENTIAL WATER SERVICE. THE RELOCATION WILL BE IN THE SAME LOCATION AND A PERMIT IS NOT REQUIRED.



PLAN
SCALE:1" = 30"

RUGGLES ENGINEERING SERVICES, INC.
4580 MEMORIAL DRIVE, ST. JOHNSBURY, VT 05819
Civil Engineering-Site Permitting
Water, Sewer and Stormwater System Designs
802-748-5898

JOB No. 15007

CASELLA CONSTRUCTION, INC.
25 INDUSTRIAL LANE, MENDON, VT 05701

PREPARED FOR:
Address

TEMPORARY WATER PLAN
SHREWSBURY STP 1443(44)

REVISIONS			
No.	Description	Date	
1	REDUCE LINE SIZE. EDITS	5/8/15	-
2	RELOCATE TEMP WATER	5/29/15	-
-	-	-	-
-	-	-	-

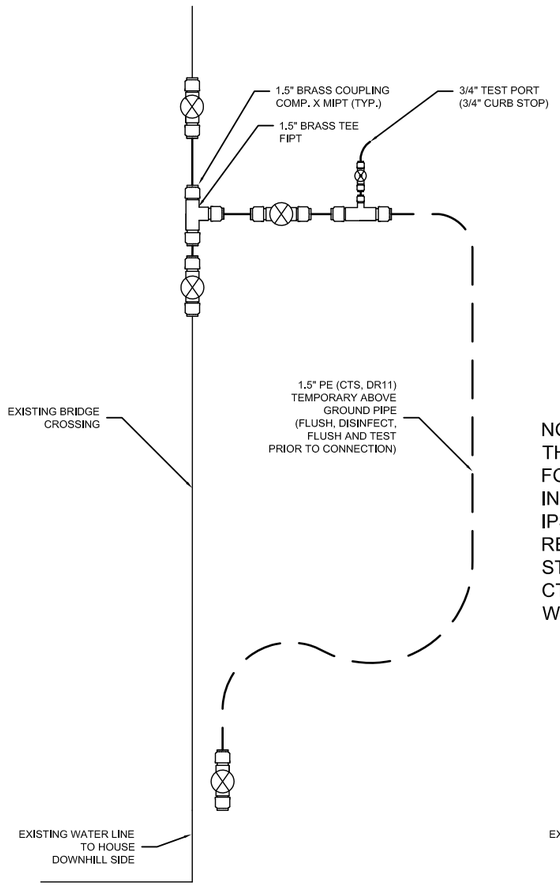
STATE OF VERMONT
BRIAN P. SICARD
No. 53831
Civil
LICENSED
PROFESSIONAL ENGINEER

Designed:
Drawn: NPS
Checked: -
DATE: 4/20/2015

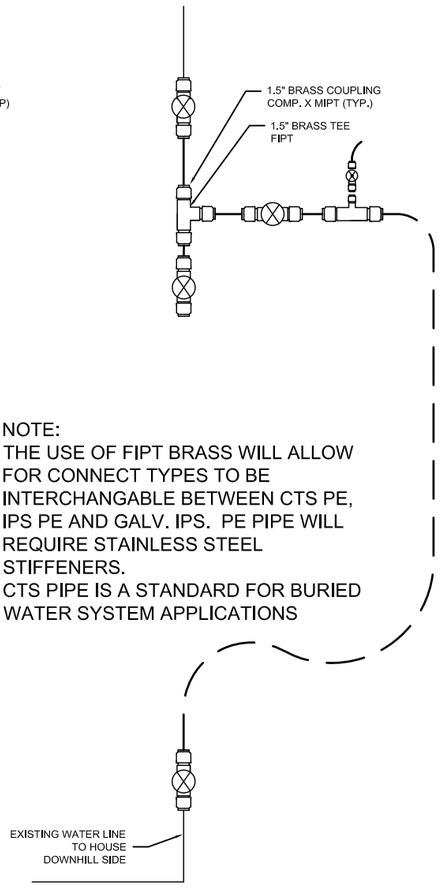
TW-1

Sheet of 2

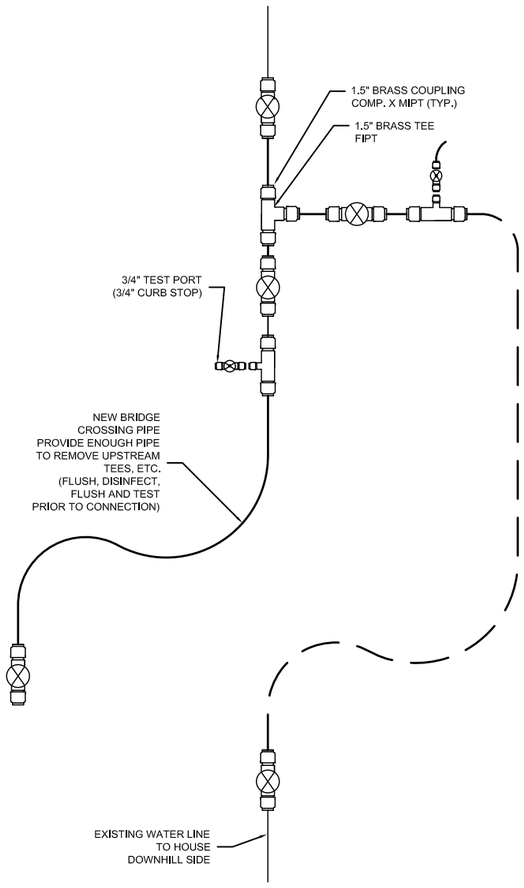
C:\Users\Sicard\Desktop\Projects\Casella Inc\Shrewsbury STP 1443(44)\Temporary Water Plan\Temp Water.dwg – 2015/05/29



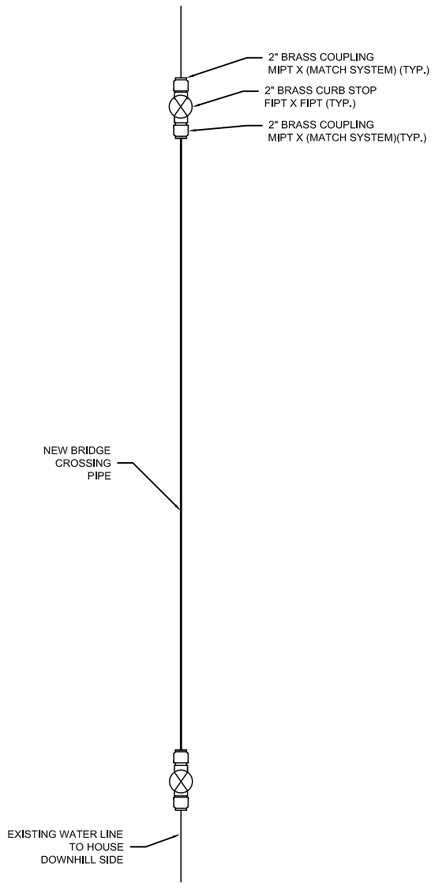
PHASE 1 - WATERLINE



PHASE 2 - WATERLINE

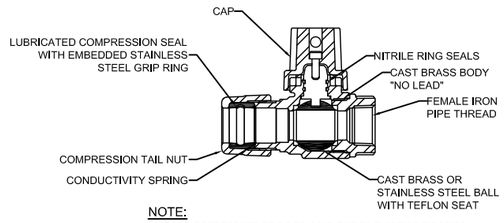


PHASE 3 - WATERLINE



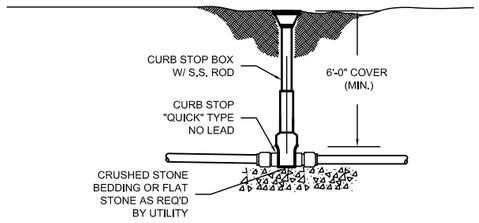
PHASE 4 - WATERLINE

NOTE:
THE USE OF FIPT BRASS WILL ALLOW FOR CONNECT TYPES TO BE INTERCHANGABLE BETWEEN CTS PE, IPS PE AND GALV. IPS. PE PIPE WILL REQUIRE STAINLESS STEEL STIFFENERS.
CTS PIPE IS A STANDARD FOR BURIED WATER SYSTEM APPLICATIONS



NOTE:
FIPT END REPRESENTS STYLE TO CONVERT TO EXISTING IPS PIPES.
THIS DEVICE IS TYPICAL FOR COPPER TUBE SIZES.

1 TYPICAL SMALL DIAMETER CURB STOP
SCALE: N.T.S.



2 PERMANENT SHUTOFF DETAIL
SCALE: N.T.S.

STATE OF VERMONT
STEVEN P. SICARD
No. 53831
Civil
LICENSED
PROFESSIONAL ENGINEER

RUGGLES ENGINEERING SERVICES, INC.
4580 MEMORIAL DRIVE, ST. JOHNSBURY, VT 05819
Civil Engineering-Site Permitting
Water, Sewer and Stormwater System Designs
802-748-5898
JOB No. 15057

PREPARED FOR:
CASELLA CONSTRUCTION, INC.
25 INDUSTRIAL LANE, MENDON, VT 05701
Address

TEMPORARY WATER DETAILS
SHREWSBURY STP 1443(44)

REVISIONS

No.	Description	Date
1	REDUCE LINE SIZE	5/8/15
,	,	,
,	,	,
,	,	,

Designed:
Drawn: NPS
Checked: -
DATE: 4/20/2015

TW-2

Sheet of 2

C:\Users\Sicard\Desktop\Projects\Casella Inc\Shrewsbury STP 1443(44)\Temporary Water Plan\Temp Water.dwg – 2015/05/08