STATE OF VERMONT PUBLIC UTILITY COMMISSION

| Investigation pursuant to 30 V.S.A. §§ 30 and |) | |
|---|---|----------------------|
| 209 regarding the alleged failure of Vermont |) | |
| Gas Systems, Inc. to comply with the |) | Case No. 17-3550-INV |
| certificate of public good in Docket 7970 by |) | |
| burying the pipeline at less than required |) | |
| depth in New Haven, Vermont |) | |

Affidavit and Certification of John St. Hilaire

- I, John St. Hilaire, being duly sworn, hereby depose and state as follows:
- 1. I am employed by Vermont Gas Systems, Inc. ("VGS") as Vice President of Operations and I have held that position since 2015. I have been employed by VGS for 26 years in positions of increasing authority including Manager Gas Supply/Control and Director, Operations Services, Gas Supply and Gas control. I have an Associate in Science Degree in Mechanical Engineering Technology from Vermont Technical College (1989), a B.S. in Business Management from Champlain College (1999), an M.S. in Administration from St. Michaels College (2005) and a B.S. in Accounting from Champlain College (2010). I have personal knowledge of the information submitted in this affidavit, except where noted to be on information and belief.
- 2. The Addison Natural Gas Project ("ANGP" or "Project") route commences at the pre-existing transmission line at Severance Road in Colchester and extends to Route 7 in Middlebury traversing through portions of the towns of Essex, Williston, St. George, Hinesburg, Monkton and New Haven. The Public Utility Commission approved the Certificate of Public Good for the Project on December 23, 2013. *Petition of Vermont Gas Systems, Inc., for a certificate of public, pursuant to 30 V.S.A. § 248, authorizing the construction of the "Addison"*

Natural Gas Pipeline," Docket 7970 (Vt. Pub. Util. Comm., Dec. 23, 2013) Final Order (hereafter "2013 Final Order").

Depth of Cover Survey Information for Project

- 3. I am personally familiar with the 2013 Final Order in Docket 7970 (Vt. Pub. Util. Comm., Dec. 23, 2013), the plans and evidence submitted in Docket 7970, and the permits and other agreements that contain requirements for the construction of the Project (collectively all referred to as "Project Documents").
- 4. VGS engaged the engineering firm of Clough, Harbour & Associates ("CHA") to provide survey services, including staking out right-of-way and the pipeline centerline, and taking top of pipe readings at the time of installation and depth of cover readings after final grade was achieved by the pipeline contractor. VGS also engaged CHA to provide as-built drawings, which CHA has not yet completed.
- 5. Based on the depth of cover information from CHA and that gathered by VGS employed surveyors, more than 95% of the ANGP pipeline was installed to a depth of at least 4 feet.
- 6. The entire ANGP pipeline was installed at least 36 inches underground at every one of the more than 4500 welds along its 41 mile length.
- 7. Based on the CHA survey data and that gathered by VGS employed surveyors, VGS has prepared a Depth Table that provides information about the depth of cover at each of over 4,500 locations. The Depth Table is attached here as **Exhibit 1.**
- 8. VGS' survey engineers confirmed installed depth of cover at approximately 4500 welds and inflection points along the length of the pipeline (approximately 4050 through survey

measurement of welds and 450 from Horizontal Directional Drilling ("HDD") reports and pipe locators).

- 9. The several portions of ANGP within an HDD or other drilled section were not measured at every weld. With respect to the HDDs, compliance is described in the notes section of the Depth Table, which specifically references the drill profile and describes our method for determining the shallowest depth of cover. For the road bores not involving HDD, compliance is described in the notes section of the Depth Table, which specifically references the depth identified using the pipe locator.
- 10. The Commission's summary of the Project's construction made this finding expressly related to depth of cover:
 - e. Pipe lengths will be welded together, inspected, laid in the trench and warning tape will be laid over the line, and then the trench will be backfilled. The pipe will be covered by at least 36 inches of soil. The pipeline will have four feet of cover in agricultural areas and within the VELCO ROW, generally five feet of cover at road crossings, and seven feet of cover at open cut streams.

2013 Final Order at 40, Finding 62(e).

- 11. The PUC ordered VGS to comply with the terms of all state and federal agency permits and all separate landowner and other agreements, some of which contained specific depth of cover requirements. 2013 Final Order, at 11.
- 12. These specific permits and agreements include the Department of Environmental Conservation stream alteration permit and water quality permit, VTrans ROW permits, railroad licenses, Army Corp of Engineer permits, the VELCO MOA, and landowner agreements. VGS entered into agreements with more than 30 landowners along the route that specified depth of cover requirements. These requirements were at 3 or 4 feet, except one (Hurlburt) that required 5 feet; none set forth any deeper standard.

- 13. As outlined in VGS' August 4 filing, there is no requirement in the 2013 Final Order regarding depth of cover for "residential areas."
- 14. The attached Depth Table lists the type of regulation, permit or agreement that requires the deepest installed cover applicable to every measured location, and what that requirement is, except where that standard is tied to "as built" depths, which are described in the notes section. Notes in the Depth Table provide detail where needed on permit changes or amendments, and on other information specific to a particular measured location. For example, the depth required by VTrans per its permit varied by location. There are five locations in the VTrans right-of-way that VTrans has preliminarily indicated are acceptable at the installed depth, but which are subject to final inspection by VTrans once it has the "as-built" drawings from VGS. There are also individual location notations for a spot where a landowner put in a drainage swale over the pipeline between the time of installation and final measurement (and we have agreed that VGS will come onsite to restore this spot).
- 15. Also based upon these survey data and measurements, VGS has prepared maps for each town through which the ANGP passes. These maps illustrate the surveyed depths of cover over the pipeline, along with showing the depth of cover that VGS' contractors used to guide the pipeline construction. The maps are attached to this affidavit as **Exhibits 2 through** 15.
- 16. I am personally familiar with and knowledgeable about the information in Exhibits 1 through 15 because I worked closely with CHA and VGS personnel to compile the measurement data into Exhibit 1 and to prepare the maps attached as Exhibits 2 through 15.

- 17. The attached Depth Table and maps show that based on survey data, the pipeline's installed depth of cover complies with applicable regulations, permits and agreements, with the exception of the 18 locations in the Clay Plains Swamp.
- 18. On behalf of VGS, I certify that, other than the 18 welds in the Clay Plains Swamp, based on the information compiled by the CHA and VGS survey teams as shown in the Depth Table attached here as Exhibit 1, the pipeline's installed depth complies with the Project's permits, agreements, and the 2013 Final Order.

ANGP Project Background

- 19. VGS engaged Over & Under and later Michels Corporation ("Michels") for the Project to perform pipeline construction and related activities including clearing/grading, ditching, stringing (transporting and placing pipe along the right-of-way), bending, welding, coating, lowering-in, backfill, testing, clean up, and restoration.
- 20. Vermont Gas contracted with Michels to undertake mainline construction in 2015 and 2016, including approximately 30 miles of the ANGP in 2016. As the contractor, Michels was responsible for construction means and methods.
- 21. As noted above, VGS engaged the engineering firm of CHA to provide survey services, including staking out right-of-way and the pipeline centerline, taking top of pipe readings at the time of installation and depth of cover readings after final grade was achieved by the pipeline contractor, and providing as-built services.
- 22. VGS engaged Hatch Mott McDonald ("HMM") in 2016 to provide construction inspection services including providing inspection of the construction management and all construction, welding, and coating inspectors. Previously, McDaniel Technical Services, Inc.

provided inspection services in 2015, and AK Environmental, LLC, provided construction inspection services in 2014.

- 23. VGS engaged PWC to provide construction management services.
- 24. In addition, VGS had a management team of VGS employees, who, together with PWC personnel, oversaw construction of the Project, providing, among other things, engineering support and project management services.
- 25. Throughout the construction of this pipeline, VGS worked with the Department of Public Service ("Department"), through both its gas engineer G.C. Morris and John MacCauley, its outside expert hired to help with field oversight for Project.
- 26. VGS had weekly meetings during the construction with the Department to address any concerns that arose, and the Department's representatives were on-site frequently during installation. VGS continues to have weekly meetings with the Department to review and close out remaining details on the Project.
- 27. The Project, which consists of 41 miles of pipeline, is connected by over 4,500 welds and buried beneath the ground either through open trenching or Horizontal Directional Drilling ("HDD").
- 28. As constructed, the pipeline passes through a portion of New Haven that is identified in the ANR MOU as the Red/Silver Maple Green Ash Swamp. This area is also called the Clay Plains Swamp and will be referred to as such in this Affidavit.
- 29. The pipeline contractors and CHA knew the required depth of cover for a particular area based on the documents provided to them by VGS at the time of construction, including the 2013 Final Order, and related materials submitted to the PUC in Docket 7970, the collateral permits related to the ANGP, and construction level plans.

30. Michels began construction work for the season on approximately May 23, 2016 and completed construction activities on December 12, 2016. During construction, Michels met with VGS personnel frequently, including weekly construction management meetings to discuss the current status of pipeline construction and plans for upcoming work.

The Process for Determining Depth of Cover Along the Pipeline

- 31. During the construction process for the ANGP, depth of cover verification involved the following four step process for open cut installations:
 - a. Sections of the pipeline were prepared for installation and "cribbed" or placed in a "staging trench" to protect it while the trench was prepared. Pipelines are typically staged on wood cribbing along a trench line until they are ready to be lowered into the final trench. In wet swamp conditions, where the soil does not support the pipeline on wood cribbing, the pipe is put in a shallow "staging trench" until the contractor is ready to move forward with installing the pipe by digging along each side to remove muddy soil and slowly lower the pipe. To do this, the contractor digs a small trench, not much larger than the pipe, to stage the pipe until the trenching and installation can occur. Once the pipeline contractor has completed welding, coating, x-ray, trenching, and lowered the pipe into the trench, CHA was called in to take an electronic measurement of "elevation" at the top of each weld. The elevation measurement records an X, Y, Z coordinate. This gave a longitudinal and latitudinal measurement for each weld.
 - b. The pipeline contractor then backfilled and restored the site including replacing topsoil and contouring to return the site as close to its original condition as practicable. Once this step was complete, CHA returned to the location and took a second elevation recording at the top of cover and a new X, Y, Z coordinate. Collecting the data took several weeks.
 - c. CHA then compiled its survey data and compared the initial top of weld elevations with the post installation top of cover elevation measurements to calculate depth of the pipe.
 - d. After performing its data compilation, CHA then provided VGS with a list of welds where the expected depth of cover may not have been achieved. VGS then did further surveys at locations provided by CHA to again measure depth of cover.
- 32. In general, if a calculation confirmed a weld was not at required depth of cover, VGS worked with Michels to remediate the depth of cover at these locations.

33. After remediation, CHA or VGS personnel performed additional survey work to confirm that the required depth of cover had been met through the remediation efforts.

The Installation of the Pipeline in the Clay Plains Swamp

- 34. The VELCO MOA provides: "VGS will design the Project in VELCO's ROW and access roads into VELCO's ROW to meet an HS-20+15% standard which VGS plans to meet by using Class 3 pipe interred at a depth of 4 feet." VELCO MOA, at 3, attached here as **Exhibit 16**.
- 35. Consistent with VGS' plan to meet the VELCO loading standard as set forth in the VELCO MOA, the construction specifications provided to Michels called for a 4-foot depth of cover in this area.
- 36. I am informed that the pipe was staged in the Clay Plains Swamp in early September and installed on September 15, 16, 19 and 20, 2016. It took four days to install approximately 2,500 feet of pipeline due to the wet conditions. Based on the pace of work in other locations, I would have expected it to take around two days to install this amount of pipe.
- 37. There is very limited public access in the area of the Clay Plains Swamp where the pipe was installed. There is no road or trail meant for a vehicle. For practical purposes, the only expected loading in this area would be by VELCO to access its own facilities, though the loading standard would protect the pipeline from public uses as well.
- 38. I oversaw the completion of the Root Cause Analysis of the Clay Plains depth of cover matter requested by the Commission, which is attached here as **Exhibit 17**. I believe the following facts in Paragraphs 39-62 reflected in that Root Cause analysis to be true based upon the work done to create it.

- 39. Given the wet soil conditions in this location, Michels began its work by constructing a mat road to access and install the pipeline, using 8 foot wooden mats. In the Clay Plains Swamp area, the ROW and work space was narrow, compared to other areas of the ANGP. Michels used a staging trench as the field team prepared for actual trenching and pipe lowering at a later date.
- 40. On September 15, Michels began the process of excavating to lower the pipe and was unable to achieve depth within the planned working hours.
- 41. On September 16, Michels continued efforts to lower the pipe, using wider wooden mats placed along the wall of the dug trench along with multiple excavators to help hold wet soil and aid in lowering the pipe. The work proceeded slowly, extending into the following work week on September 19 and 20. Michels reported progress, but told VGS representatives that great care had to be taken to protect equipment and workers using the wooden mats for stability. Michels reported that at one point, a piece of equipment exiting the site slipped off its mat and became stuck temporarily in mud.
- 42. VGS personnel directed its inspection contractor, HMM, to inform Michels to continue using its best efforts to get the pipe buried to the planned depth of four feet.
- 43. On September 19, VGS informed VELCO of the challenges Michels was experiencing installing the pipeline within the Clay Plains Swamp ROW. Concerned that Michels may not achieve the planned 4-foot depth specified, VGS discussed with VELCO whether its loading standards could be achieved with a shallower burial at this location. On September 20, VGS shared with VELCO an engineering analysis performed in May 2016 that showed VELCO's loading standard would be met with depths at 3 feet. See September 20 email from John St. Hilaire to Peter Lind at VELCO, with Mr. Lind's response, attached hereto at

Exhibit 18 (the attachment to this email is the May 25 Mott McDonald engineering analysis of the loading standard VGS provided to VELCO). VGS also informed VELCO that its contractor would continue to work to reach a 4-foot depth and complete installation in this area.

- 44. Following the protocol for the pipeline installed though open trenching, during initial installation VGS' survey contractor CHA took a measurement at the top of the pipe at each weld in the Clay Plains Swamp, so that final interred depth could be determined after fill, contouring and clean-up. Actual depth of cover cannot be determined until after these steps occur and cover is placed on the pipe.
- 45. On September 20, Michels completed installation in this section of the VELCO ROW and discontinued trenching activities.
- 46. On September 21, VELCO told VGS that it agreed that its loading standard could be met at a shallower depth than 4 feet, so long as other protective measures were put in place, such as additional markers, and the companies memorialized in writing any modified methods employed. See Exhibit 18.
- 47. After the installation, Michels spent approximately 8 days on clean-up and final grade in the Clay Plains Swamp. Based on the pace of work in other locations, I would have expected it to take about 3 days for these activities in typical open field conditions.
- 48. Due to the wet, muddy soil, CHA was unable to reenter the Clay Plains Swamp until November 4 and 6 to take final grade depth of cover measurements.
- 49. On November 9, 2016, CHA reported to VGS that, for the 2016 season, 290 welds may not have been installed to depth, including 18 in Clay Plains Swamp. All other measurements in the Clay Plains Swamp met the 4-foot specification.

- 50. On November 11, 2016, VGS informed Michels of the depth deficiencies for the 2016 season identified by the surveyor, and Michels worked to remediate these locations.
- 51. By December 12, 2016, Michels had remediated the depth of cover issues except the 18 locations in the Clay Plains Swamp. The remediation work typically involves adding more cover and further contouring the soil surface.
- 52. Michels informed VGS during this remediation work that the Clay Plains Swamp locations could not be successfully remediated through adding cover and further contouring due to the environmentally-sensitive area. As well, Michels communicated to VGS that it lacked confidence that a second attempt at burying the pipe would be any more successful in terms of getting the pipe to four feet throughout the Clay Plains Swamp.
- 53. Given the challenges faced by VGS' contractors when installing the pipeline within the Clay Plains Swamp, VGS believes that any attempts to rebury the pipeline at these locations would cause greater environmental harm than leaving the pipeline where it is.
- 54. The 18 locations in the Clay Plains Swamp had an installed depth of between 3.0 and 3.8. At these depths, the VELCO MOA loading standard is still met according to the engineering analysis VGS obtained.
- 55. The 18 locations in the Clay Plains Swamp were installed at a safe depth because they are at least as deep as the federal depth requirement adopted by the PUC, and meet the VELCO loading standard. VGS also implemented additional protective measures requested by VELCO, as described below.
- 56. Given the practical challenges of working in the Swamp and the environmental concerns, VGS management determined that it would pursue leaving the pipeline interred at

installed depth at those locations since VELCO loading standards were achieved at those depths, and would seek party and regulatory approval for that plan.

- 57. During remediation work in mid-November, 2016, VGS informed VELCO that certain locations within the Clay Plains Swamp did not meet 4-foot planned installation depth according to survey measurements.
- 58. On December 1, 2016, I updated the Department's gas engineer regarding its depth of cover survey results and remediation, including the locations in the Clay Plains Swamp.
- 59. During the week of December 28, I discussed the "leave in place" option with the Department's public advocacy staff.
- 60. On January 3, 2017, I spoke in detail with the Department engineer regarding the 18 locations in the Clay Plains Swamp, the work involved in installing the pipeline, and the decision to pursue leaving the pipeline as is with Department support if VELCO agreed.
- 61. From January through April 25, 2017, VGS worked with VELCO to determine whether VELCO, consistent with its initial September review of the issue, would agree to leave the pipe as installed given satisfaction of the loading standard. On April 25, 2017, VELCO provided its letter of approval to VGS to leave the pipe in place with additional conditions. See VELCO April 25, 2017 Letter, attached here **Exhibit 19** (also provided with VGS' June 2 NSC request).
- 62. This letter and the engineering analysis performed in May 2016 that showed VELCO's loading standard would be met with depths at 3 feet was provided to the Department on April 26, 2017 for review by the Department gas engineer and Dave Berger, the Department independent engineering consultant.

Safety Measurement Implemented By VGS

- 63. VGS has implemented numerous "layers of protection," to maintain the integrity of the pipeline in addition to burying it at a certain depth. Together, these measures are all aimed at protecting the buried pipe and include: 1) placement of pipeline markers, 2) implementation of a damage prevention program, 3) use of the One-Call System federal law requiring use of 811, 4) patrolling the pipeline, 5) performing leak surveys, 6) utilizing the company's public awareness programs, 7) odorization of the gas, 8) observation of excavations, and 9) requirements for soft excavation techniques in tolerance zones, meaning use of hand shoveling close to pipe.
- 64. The PUC's 2013 Final Order specifically requires ongoing monitoring and remediation:
 - 273. VGS will also develop and implement a plan to monitor for and mitigate occurrence of unstable soil and ground movement and if observed conditions indicate the possible loss of cover, perform a depth of cover study, and replace cover as necessary to restore the depth of cover or apply alternative means to provide protection equivalent to the originally required depth of cover for both transmission and distribution pipes. Berger reb. pf. at 9.
 - 65. VGS' ongoing Transmission Maintenance Plan fulfills this requirement.
- 66. As I described above, VGS also has kept the Department involved in its progress on the Project during construction and to date.
- 67. Department compliance personnel were present regularly on site during construction of the ANGP, for the purpose of monitoring pipeline safety compliance. In addition, the Department's gas engineer conducted weekly meetings with VGS project team members to review, discuss and assess pipeline construction safety and compliance. Those meetings still occur, as VGS closes out remaining items with the Department.

Project Opponents' Two Claims Regarding Depth Of Cover

- 68. The picture attached to the Project Opponent's June 23 filing, submitted by Lawrence Shelton, shows the pipeline during an interim point of construction, in a staging trench where it would be lowered and installed at a later date. Mr. Shelton has also sent this photo to PHMSA. PHMSA has not yet closed its review, but as VGS has noted, all locations along the pipeline were installed deeper than the 3-foot depth of cover required by federal regulations.
- 69. Based on its review of the photo and description of it being taken just south of the Hurlburt property, it appears the photo was taken in the VELCO ROW within Clay Plains Swamp.
- 70. I cannot say specifically which section of the Clay Plains Swamp pipeline is shown in Mr. Shelton's photo, but based on survey data, VGS has information that all of the pipeline in the Clay Plains Swamp was installed between 3 and 4 feet, not at 18 inches as suggested by Mr. Shelton's photo.
- 71. Project Opponents' comments also claim that G.C. Morris, the Department's gas engineer, informed Mr. Shelton that VGS made the pipeline deeper at this location by pushing a backhoe down directly on the pipe or the ground above it. I can say unequivocally that the method described was not utilized here (or elsewhere it is not a method of pipe installation). It is possible that what was described was instead the common industry installation method described above for swampy areas that was in fact used in this location to stage the pipe in a shallow trench and then dig through the muddy soil on each side next to the pipe, creating a deeper trench as the digging continues and thereby lowering the staged pipe as mud beneath it subsides into the void created by the trenching.

- 72. Regarding the photograph claiming to depict a crossing on the Sucker Brook in Williston covered by the DEC's Stream Alteration Permit, the Project Opponents reference a VELCO inspector field note on August 29, 2016 that the pipe is not to required depth at a stream in Williston. The note itself suggests additional work in the rock is needed to achieve depth.
- 73. The installation of this crossing was not completed on August 29. The contractors were able to install the pipe under the Sucker Brook to a depth in excess of 7 feet. See Attachment 1 (ANGP Stream Depth Table) to my August 4, 2017 Affidavit submitted in this matter.

Root Cause Analyses

- 74. Attached to this Affidavit are Root Cause Analyses for: a) the Clay Plains Swamp depth of cover matter; b) the 2016 Harsh Sunflower incident that was the subject of Docket 8791; c) and the induced voltage protections subject to a Notice of Potential Violation and settlement in Docket 8814, which are labeled **Exhibits 17, 20, and 21**, respectively
- 75. I oversaw the preparation of these documents for VGS and am familiar with their content, including the information regarding contractor work onsite which I believe to be true.
- 76. These Root Cause Analyses demonstrate that VGS' project management has been proactive and effective in addressing compliance issues that have arisen in this large and complex Project.

Dated at Burlington, Vermont this <u>I</u> day of August, 2017.

Subscribed and sworn to before me this 11 day of August, 2017.

Notary Public
My commission expires: 21019

| Generic | l | Required | | | _ |
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| Location Identifier # | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Location 0 | 4.3 | 3.0 | PHMSA | | Colchester |
| Location 1 | 3.6 | 3.0 | PHMSA | | Colchester |
| Location 2 | 3.2 | 3.0 | PHMSA | | Colchester |
| Location 3 | 4.9 | 3.0 | PHMSA | | Colchester |
| Location 4 | 5.9 | 3.0 | PHMSA | | Colchester |
| Location 5 | 5.3 | 3.0 | PHMSA | | Colchester |
| Location 6 | 6.2 | 3.0 | PHMSA | | Colchester |
| Location 7 | 6.7 | 3.0 | PHMSA | | Colchester |
| Location 8 | 6.4 | 3.0 | PHMSA | | Colchester |
| Location 9 | 5.5 | 4.0 | VTRANS | | Colchester |
| Location 10 | 5.2 | 4.0 | VTRANS | | Colchester |
| Location 11 | 6.8 | 4.0 | VTRANS | | Colchester |
| Location 12 | 6.7 | 4.0 | VTRANS | | Colchester |
| Location 13 | 6.8 | 4.0 | VTRANS | | Colchester |
| Location 14 Location 15 | 6.3 5.9 | 4.0 | VTRANS VTRANS | | Colchester Colchester |
| Location 16 | 6.1 | 4.0 | VTRANS | | Colchester |
| Location 17 | 6.0 | 4.0 | VTRANS | | Colchester |
| Location 18 | 6.0 | 4.0 | VTRANS | | Colchester |
| Location 19 | 6.2 | 4.0 | VTRANS | | Colchester |
| Location 20 | 6.3 | 4.0 | VTRANS | | Colchester |
| Location 21 | 6.0 | 4.0 | VTRANS | | Colchester |
| Location 22 | 6.5 | 4.0 | VTRANS | | Colchester |
| Location 23 | 7.7 | 4.0 | VTRANS | | Colchester |
| Location 24 | 7.6 | 4.0 | VTRANS | | Colchester |
| Location 25 | 6.5 | 4.0 | VTRANS | | Colchester |
| Location 26 | 6.8 | 4.0 | VTRANS | | Colchester |
| Location 27 | 6.8 | 4.0 | VTRANS | | Colchester |
| Location 28 | 6.7 | 4.0 | VTRANS | | Colchester |
| Location 29 | 6.6 | 4.0 | VTRANS | | Colchester |
| Location 30 | 6.5 | 4.0 | VTRANS | | Colchester |
| Location 31 | 7.1 | 4.0 | VTRANS | | Colchester |
| Location 32 | 7.0 | 4.0 | VTRANS | | Colchester |
| Location 33 | 6.8 6.6 | 4.0 | VTRANS | | Colchester |
| Location 34 Location 35 | 7.2 | 4.0 | VTRANS VTRANS | | Colchester Colchester |
| Location 36 | 6.3 | 4.0 | VTRANS | | Colchester |
| Location 37 | 7.6 | 4.0 | VTRANS | | Colchester |
| Location 38 | 7.2 | 4.0 | VTRANS | | Colchester |
| Location 39 | 6.4 | 4.0 | VTRANS | | Colchester |
| Location 40 | 5.6 | 4.0 | VTRANS | | Colchester |
| Location 41 | 5.4 | 4.0 | VTRANS | | Colchester |
| Location 42 | 5.8 | 4.0 | VTRANS | | Colchester |
| Location 43 | 4.9 | 4.0 | VTRANS | | Colchester |
| Location 44 | 6.1 | 4.0 | VTRANS | | Colchester |
| Location 45 | 6.4 | 4.0 | VTRANS | | Colchester |
| Location 46 | 6.7 | 4.0 | VTRANS | | Colchester |
| Location 47 | 6.2 | 4.0 | VTRANS | | Colchester |
| Location 48 | 7.0 | 4.0 | VTRANS | | Colchester |
| Location 49 | 6.6 | 4.0 | VTRANS | | Colchester |
| Location 50 | 7.3 | 4.0 | VTRANS VTRANS | | Colchester Colchester |
| Location 51 Location 52 | 7.0 5.7 | 4.0 | VTRANS | | Colchester |
| Location 52 | 6.8 | 4.0 | VTRANS | | Colchester |
| Location 54 | 11.4 | 4.0 | VTRANS | | Colchester |
| Location 55 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Colchester |
| Location 56 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Colchester |
| Location 57 | ROADBORE | 5.0 | Road Crossing | Mill Pond Road, Pipeline locator indicated a depth of 11.6 feet in roadway. | Colchester |
| Location 58 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Colchester |
| Location 59 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Colchester |
| Location 60 | 6.1 | 4.0 | VTRANS | · | Colchester |
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|----------------------------|--------------|----------|------------------|---|--------------------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier# | | Depth | | | |
| Location 61 | 4.5 | 4.0 | VTRANS | | Colchester |
| Location 62 | 4.9 | 4.0 | VTRANS | | Colchester |
| Location 63 | 4.7 | 4.0 | VTRANS | | Colchester |
| Location 64 | 6.4 | 4.0 | VTRANS | | Colchester |
| Location 65 | 7.5 | 4.0 | VTRANS | | Colchester |
| Location 66 | 7.7 | 4.0 | VTRANS | | Colchester |
| Location 67 | 8.5 | 4.0 | VTRANS | | Colchester |
| Location 68 | 8.1 | 4.0 | VTRANS | | Colchester |
| Location 69 | 7.3 | 4.0 | VTRANS | | Colchester |
| Location 70 | 6.3 | 4.0 | VTRANS | | Colchester |
| Location 71 | 5.1 | 4.0 | VTRANS | | Colchester |
| Location 72 | 5.3 | 4.0 | VTRANS | | Colchester |
| Location 73 | 6.1 | 4.0 | VTRANS | Crossing ID #01, 2012-SC-CM-1 (P) | Colchester |
| Location 74 | 6.5 | 4.0 | VTRANS | Crossing ID #01, 2012-SC-CM-1 (P) | Colchester |
| Location 75 | 6.8 | 4.0 | VTRANS | Crossing ID #01, 2012-SC-CM-1 (P) | Colchester |
| Location 76 | 8.5 | 4.0 | VTRANS | | Colchester |
| Location 77 | 8.2 | 4.0 | VTRANS | | Colchester |
| Location 78 | 9.5 | 4.0 | VTRANS | | Colchester |
| Location 79 | 8.3 | 4.0 | VTRANS | | Colchester |
| Location 80 | 12.6 | 4.0 | VTRANS | | Colchester |
| Location 81 | 11.8 | 4.0 | VTRANS | | Colchester |
| Location 82 | 16.4 | 4.0 | VTRANS | | Colchester |
| Location 83 | 14.9 | 4.0 | VTRANS | | Colchester |
| Location 84 | 14.5 | 4.0 | VTRANS | | Colchester |
| Location 85 | 7.1 | 4.0 | VTRANS | | Colchester |
| Location 86 | 5.3 | 4.0 | VTRANS | | Colchester |
| Location 87 | 5.2 | 4.0 | VTRANS | | Colchester |
| Location 88 | 6.2 6.6 | 4.0 | VTRANS VTRANS | | Colchester |
| Location 89 Location 90 | 6.8 | 4.0 | VTRANS | | Colchester Colchester |
| Location 91 | 7.1 | 4.0 | VTRANS | | Colchester |
| Location 92 | 7.1 | 4.0 | VTRANS | | Colchester |
| Location 93 | 7.0 | 4.0 | VTRANS | | Colchester |
| Location 94 | 7.0 | 4.0 | VTRANS | | Colchester |
| Location 95 | 8.2 | 4.0 | VTRANS | | Colchester |
| Location 96 | 7.8 | 4.0 | VTRANS | | Colchester |
| Location 97 | 6.0 | 4.0 | VTRANS | | Colchester |
| Location 98 | 5.7 | 4.0 | VTRANS | | Colchester |
| Location 99 | 6.2 | 4.0 | VTRANS | | Colchester |
| Location 100 | 6.4 | 4.0 | VTRANS | | Colchester |
| Location 101 | 9.8 | 4.0 | VTRANS | | Colchester |
| Location 102 | 10.1 | 4.0 | VTRANS | | Colchester |
| Location 103 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 104 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 105 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 106 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 107 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 108 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 109 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 110 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 111 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 112 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 113 | HDD | 7.0 | DEC Stream | Crossing ID #02, 2012-SC-CM-3 (P) (Tributary to Indian Brook), Estimated location for Depth from HDD profile (36.0 feet). | Colchester |
| Location 114 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 115 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 116 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 117 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 118 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 119 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 120 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| | | | | | |

| Generic | 1 | ll | | 1 | 1 |
|------------------------------|--------------|----------|------------------|--|--------------------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | | |
| Location 121 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 122 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 123 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 124 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 125 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 126 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 127 Location 128 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| | HDD HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester Colchester |
| Location 129 Location 130 | HDD | 4.0 | VTRANS VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 131 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 132 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 133 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 134 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 135 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 136 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 137 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 138 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 139 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 140 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 141 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 142 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 143 | 8.1 | 4.0 | VTRANS | , | Colchester |
| Location 144 | 5.7 | 4.0 | VTRANS | | Colchester |
| Location 145 | 7.2 | 4.0 | VTRANS | | Colchester |
| Location 146 | 4.0 | 4.0 | VTRANS | | Colchester |
| Location 147 | 4.2 | 4.0 | VTRANS | | Colchester |
| Location 148 | 4.6 | 4.0 | VTRANS | | Colchester |
| Location 149 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 150 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 151 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 152 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 153 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 154 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 155 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 156 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 157 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 158 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 159 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 160 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 161 | HDD | | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 162 | HDD | | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Colchester |
| Location 163 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 164 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 165 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 166 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 167 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 168 Location 169 | HDD HDD | 4.0 | VTRANS VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| | | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 170 | HDD HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 171 Location 172 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 173 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 173 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| | | | | Crossing ID #03, 2012-TB-IB-1 (P) (Indian Brook), Estimated location for Depth from | |
| Location 175 | HDD | | DEC Stream | HDD Profile (46.0 feet). | Essex |
| Location 176 | HDD | | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 177 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 178 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 179 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 180 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |

| Generic | 1 | Required | | | |
|------------------------------|--------------|------------|------------------|--|---------|
| Location | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Identifier # | | · | | | <u></u> |
| Location 181 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 182 Location 183 | HDD HDD | 4.0 4.0 | VTRANS VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 184 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 185 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 186 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 187 | 5.1 | 4.0 | VTRANS | based of 1100 Frome, filmman depth is defease no feet. | Essex |
| Location 188 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 189 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 190 | 5.6 | 4.0 | VTRANS | | Essex |
| Location 191 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 192 | 6.3 | 4.0 | VTRANS | | Essex |
| Location 193 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 194 | 7.0 | 4.0 | VTRANS | | Essex |
| Location 195 | 7.8 | 4.0 | VTRANS | | Essex |
| Location 196 | 8.6 | 4.0 | VTRANS | | Essex |
| Location 197 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 198 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 199 | 10.5 | 4.0 | VTRANS | | Essex |
| Location 200 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 201 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 202 | 9.6 | 4.0 | VTRANS | | Essex |
| Location 203 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 204 Location 205 | 8.3 7.7 | 4.0 | VTRANS VTRANS | | Essex |
| Location 206 | 10.0 | 4.0 | VTRANS | | Essex |
| Location 207 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 208 | 6.2 | 4.0 | VTRANS | | Essex |
| Location 209 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 210 | 6.2 | 4.0 | VTRANS | | Essex |
| Location 211 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 212 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 213 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 214 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 215 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 216 | 5.1 | 4.0 | VTRANS | | Essex |
| Location 217 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 218 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 219 | 7.5 | 4.0 | VTRANS | | Essex |
| Location 220 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 221 | 6.9 | | VTRANS | | Essex |
| Location 222 | 6.5 6.3 | | VTRANS VTRANS | | Essex |
| Location 223 Location 224 | 10.6 | | VTRANS | | Essex |
| Location 224 | 6.8 | 4.0 | VTRANS | | Essex |
| Location 226 | 11.2 | 4.0 | VTRANS | | Essex |
| Location 227 | 6.6 | 4.0 | VTRANS | | Essex |
| Location 228 | 5.6 | 4.0 | VTRANS | | Essex |
| Location 229 | 4.9 | | VTRANS | | Essex |
| Location 230 | 6.1 | | VTRANS | | Essex |
| Location 231 | 6.5 | 4.0 | VTRANS | | Essex |
| Location 232 | 7.0 | 4.0 | VTRANS | | Essex |
| Location 233 | 6.9 | 4.0 | VTRANS | | Essex |
| Location 234 | 7.6 | 4.0 | VTRANS | | Essex |
| Location 235 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 236 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 237 | HDD | 5.0 | Road Crossing | Route 2A, Pipeline locator indicated a depth of 18.3 feet in roadway. | Essex |
| Location 238 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 239 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 240 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 241 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |

| Generic Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
|-------------------------------------|--------------|-------------------|------------------|---|----------------|
| Location 242 | HDD | 4.0 | VTRANS | Railroad Crossing nearby this weld, Pipeline locator indicated a depth of 27.0 feet under railroad. 25-foot minimum required under this railroad. | Essex |
| Location 243 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 244 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 245 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 246 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 247 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 248 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 249 | 5.1 | 4.0 | VTRANS | | Essex |
| Location 250 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 251 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 252 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 253 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 254 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 255 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 256 Location 257 | 8.0 7.9 | 4.0 | VTRANS VTRANS | | Essex Essex |
| Location 257 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 258 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 260 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 261 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 262 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 263 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 264 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 265 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 266 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 267 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 268 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 269 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 270 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 271 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 272 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 273 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 274 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 275 | 5.4 | 4.0 | VTRANS | | Essex |
| Location 276 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 277 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 278 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 279 | 4.1 4.4 | 4.0 | VTRANS VTRANS | | Essex |
| Location 280 Location 281 | 4.4 | | VTRANS | | Essex |
| Location 282 | 4.1 | | VTRANS | | Essex |
| Location 283 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 284 | 4.1 | | VTRANS | | Essex |
| Location 285 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 286 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 287 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 288 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 289 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 290 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 291 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 292 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 293 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 294 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 295 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 296 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 297 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 298 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 299 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 300 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 301 | 4.3 | 4.0 | VTRANS | | Essex |

| Generic | 1 | Danwinad | | | |
|------------------------------|--------------|-------------------|------------------|-------|----------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 302 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 303 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 304 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 305 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 306 | 4.0 4.3 | 4.0 | VTRANS | | Essex |
| Location 307 | | 4.0 | VTRANS | | Essex |
| Location 308 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 309 | 4.3 | | VTRANS | | Essex |
| Location 310 Location 311 | 4.0 | 4.0 | VTRANS VTRANS | | Essex Essex |
| Location 312 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 313 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 314 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 315 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 316 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 317 | 6.4 | 4.0 | VTRANS | | Essex |
| Location 318 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 319 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 320 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 321 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 322 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 323 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 324 | 6.4 | 4.0 | VTRANS | | Essex |
| Location 325 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 326 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 327 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 328 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 329 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 330 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 331 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 332 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 333 | 5.4 | 4.0 | VTRANS/VELCO | | Essex |
| Location 334 | 5.7 | 4.0 | VTRANS/VELCO | | Essex |
| Location 335 | 5.9 | 4.0 | VTRANS/VELCO | | Essex |
| Location 336 | 6.0 | 4.0 | VTRANS/VELCO | | Essex |
| Location 337 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 338 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 339 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 340 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 341 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 342 | 4.9 | | VTRANS | | Essex |
| Location 343 | 5.7 | | VTRANS | | Essex |
| Location 344 | 5.2 | | VTRANS | | Essex |
| Location 345 | 4.7 | | VTRANS | | Essex |
| Location 346 | 6.1 | 4.0 | VTRANS VTRANS | | Essex |
| Location 347 Location 348 | 6.2 7.6 | 4.0 | VTRANS | | Essex Essex |
| Location 349 | 7.8 | 4.0 | VTRANS | | Essex |
| Location 350 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 350 | 6.9 | | VTRANS | | Essex |
| Location 351 | 5.8 | | VTRANS | | Essex |
| Location 353 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 354 | 5.8 | | VTRANS | | Essex |
| Location 355 | 5.8 | | VTRANS | | Essex |
| Location 356 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 357 | 5.7 | | VTRANS | | Essex |
| Location 358 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 359 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 360 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 361 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 362 | 4.2 | 4.0 | VTRANS | | Essex |
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| Location Actual Depth Popular Popular | Generic | | Danwinad | | | 1 |
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| | Location | Actual Depth | Required | Reason for Depth | Notes | Town |
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| Cacation 365 4.5 4.0 VITANS | | | | | | |
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| IGACTION 358 4.1 | | | | | | |
| DICATION 369 | | | | | | |
| LOCATION 377 | | | | | | |
| Location 372 | Location 370 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 373 4.0 4.1 4.0 VTRANS Essex Exaction 375 4.0 4.0 VTRANS Essex Exaction 375 4.0 4.0 VTRANS Essex Exaction 375 4.0 4.0 VTRANS Essex Exaction 377 4.4 4.0 VTRANS Essex Exaction 377 4.4 4.0 VTRANS Essex Exaction 377 4.4 4.0 VTRANS Essex Exaction 379 4.1 4.0 VTRANS Essex Exaction 379 4.1 4.0 VTRANS Essex Exaction 379 4.1 4.0 VTRANS Essex Exaction 381 4.6 4.0 VTRANS Essex Exaction 382 4.2 4.0 VTRANS Essex Exaction 382 4.2 4.0 VTRANS Essex Exaction 382 4.2 4.0 VTRANS Essex Exaction 382 4.0 4.0 VTRANS Essex Exaction 384 4.5 4.0 VTRANS Essex Exaction 384 4.5 4.0 VTRANS Essex Exaction 385 4.1 4.0 VTRANS Essex Exaction 386 4.1 4.0 VTRANS Essex Exaction 386 4.1 4.0 VTRANS Essex Exaction 388 4.1 4.0 VTRANS Essex Exaction 389 4.7 4.0 VTRANS Essex Exaction 390 4.0 4.0 VTRANS Essex Exaction 400 4.0 VTRANS Essex | Location 371 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 374 | Location 372 | | 4.0 | VTRANS | | Essex |
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| Display | | | | | | |
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| DOCATION 384 | | | | | | |
| Decation 385 | Location 383 | 4.0 | 4.0 | VTRANS | | Essex |
| Decation 386 | Location 384 | 4.5 | 4.0 | VTRANS | | Essex |
| Coation 387 | Location 385 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 388 | | | | | | Essex |
| Decition 389 | | | | | | |
| Docation 390 | | | | | | |
| Location 391 | | | | | | |
| Location 392 | | | | | | |
| Location 393 | | | | | | |
| Location 394 | | | | | | |
| Location 395 | | | | | | |
| Location 397 8.7 4.0 VTRANS Essex Location 398 10.2 7.0 DEC Stream Crossing ID #04, 2012-TB-IB-2 (P) (Indian Brook) Essex Location 399 8.8 7.0 DEC Stream Crossing ID #04, 2012-TB-IB-2 (P) (Indian Brook) Essex Location 400 7.0 4.0 VTRANS Essex Location 401 5.2 4.0 VTRANS Essex Location 402 4.0 4.0 VTRANS Essex Location 403 4.5 4.0 VTRANS Essex Location 404 4.0 4.0 VTRANS Essex Location 405 4.1 4.0 VTRANS Essex Location 406 6.9 4.0 VTRANS Essex Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex L | | 4.0 | 4.0 | VTRANS | | Essex |
| Location 398 10.2 7.0 DEC Stream Crossing ID #IO4, 2012-TB-IB-2 (P) (Indian Brook) Essex Location 399 8.8 7.0 DEC Stream Crossing ID #IO4, 2012-TB-IB-2 (P) (Indian Brook) Essex Location 400 7.0 4.0 VTRANS Essex Location 401 5.2 4.0 VTRANS Essex Location 402 4.0 4.0 VTRANS Essex Location 403 4.5 4.0 VTRANS Essex Location 404 4.0 4.0 VTRANS Essex Location 405 4.1 4.0 VTRANS Essex Location 406 6.9 4.0 VTRANS Essex Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | Location 396 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 399 8.8 7.0 DEC Stream Crossing ID #04, 2012-TB-IB-2 (P) (Indian Brook) Essex Location 400 7.0 4.0 VTRANS Essex Location 401 5.2 4.0 VTRANS Essex Location 402 4.0 4.0 VTRANS Essex Location 403 4.5 4.0 VTRANS Essex Location 404 4.0 4.0 VTRANS Essex Location 405 4.1 4.0 VTRANS Essex Location 406 6.9 4.0 VTRANS Essex Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 400 4.0 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4. | Location 397 | 8.7 | 4.0 | VTRANS | | Essex |
| Location 400 7.0 | | | | | | Essex |
| Location 401 5.2 4.0 VTRANS Essex Location 402 4.0 4.0 VTRANS Essex Location 403 4.5 4.0 VTRANS Essex Location 404 4.0 4.0 VTRANS Essex Location 405 4.1 4.0 VTRANS Essex Location 406 6.9 4.0 VTRANS Essex Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 | | | | | Crossing ID #04, 2012-TB-IB-2 (P) (Indian Brook) | |
| Location 402 | | | | | | |
| Location 403 | | | | | | |
| Location 404 4.0 4.0 VTRANS Essex Location 405 4.1 4.0 VTRANS Essex Location 406 6.9 4.0 VTRANS Essex Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex Location 423 4.0 4.0 VTRANS Essex Location 424 4.0 4.0 VTRANS Essex Location 425 4.0 4.0 VTRANS Essex Location 426 4.0 4.0 VTRANS Essex Location 427 4.0 4.0 VTRANS Essex Location 428 4.0 | | | | | | |
| Location 405 4.1 4.0 VTRANS Essex Location 406 6.9 4.0 VTRANS Essex Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 VTRANS Essex Location 413 4.0 VTRANS Essex Location 414 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| Location 406 6.9 4.0 VTRANS Essex Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS | | | | | | |
| Location 407 6.4 4.0 VTRANS Essex Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS | | | | | | |
| Location 408 4.2 4.0 VTRANS Essex Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 VTRANS Essex Location 415 4.0 VTRANS Essex Location 416 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 409 4.4 4.0 VTRANS Essex Location 410 4.0 4.0 VTRANS Essex Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 411 4.0 4.0 VTRANS Essex Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | 4.4 | | | | |
| Location 412 4.0 4.0 VTRANS Essex Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | Location 410 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 413 4.0 4.0 VTRANS Essex Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | Location 411 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 414 4.0 4.0 VTRANS Essex Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | Location 412 | | | | | Essex |
| Location 415 4.0 4.0 VTRANS Essex Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 416 4.0 4.0 VTRANS Essex Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 417 4.0 4.0 VTRANS Essex Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 418 4.0 4.0 VTRANS Essex Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 419 4.0 4.0 VTRANS Essex Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 420 4.0 4.0 VTRANS Essex Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 421 4.0 4.0 VTRANS Essex Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 422 4.0 4.0 VTRANS Essex | | | | | | |
| Location 423 4.0 4.0 VTRANS Essex | | | | | | |
| | Location 423 | 4.0 | 4.0 | VTRANS | | Essex |

| Generic | l | | | I | I |
|------------------------------|--------------|----------|------------------|--|----------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | • | Depth | • | | |
| Location 424 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 425 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 426 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 427 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 428 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 429 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 430 | 5.4 | 4.0 | VTRANS | | Essex |
| Location 431 | 5.7 | 4.0 | VTRANS | | Essex |
| Location 432 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 433 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 434 Location 435 | 4.8 4.8 | 4.0 | VTRANS VTRANS | | Essex |
| Location 436 | 4.8 | 4.0 | VTRANS | | Essex Essex |
| Location 437 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 438 | 7.7 | 4.0 | VTRANS | | Essex |
| LOCATION 438 | 7.7 | 4.0 | VIIVANS | Route 15 (Upper Main Street), Based on HDD Profile, minimum depth is at | LSSEX |
| Location 439 | HDD | 5.0 | Road Crossing | least 5.0 feet. | Essex |
| Location 440 | HDD | 5.0 | Road Crossing | Route 15 (Upper Main Street), Estimated location for Depth from HDD Profile (24.0 feet). | Essex |
| Location 441 | HDD | 5.0 | Road Crossing | Route 15 (Upper Main Street), Based on HDD Profile, minimum depth is at least 5.0 feet. | Essex |
| Location 442 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 443 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Essex |
| Location 444 | 5.4 | 4.0 | VTRANS | | Essex |
| Location 445 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 446 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 447 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 448 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 449 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 450 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 451 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 452 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 453 | 4.3 4.7 | 4.0 | VTRANS | | Essex |
| Location 454 Location 455 | 5.0 | 4.0 | VTRANS VTRANS | | Essex |
| Location 456 | 4.2 | 4.0 | VTRANS | | Essex Essex |
| Location 457 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 458 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 459 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 460 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 461 | 5.2 | | VTRANS | | Essex |
| Location 462 | 5.5 | | VTRANS | | Essex |
| Location 463 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 464 | 6.2 | | VTRANS | | Essex |
| Location 465 | 8.6 | | VTRANS | | Essex |
| Location 466 | 8.4 | 4.0 | VTRANS | | Essex |
| Location 467 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 468 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 469 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 470 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 471 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 472 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 473 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 474 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 475 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 476 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 477 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 478 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 479 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 480 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 481 | 5.0 | 4.0 | VTRANS | | Essex |

| Generic | | Required | | | |
|------------------------------|--------------|----------|------------------|---|-------|
| Location | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Identifier # | 4.0 | 4.0 | VITRANC | | Facey |
| Location 482 Location 483 | 4.9 4.8 | 4.0 | VTRANS VTRANS | | Essex |
| Location 484 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 485 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 486 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 487 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 488 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 489 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 490 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 491 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 492 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 493 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 494 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 495 | 8.4 | 4.0 | VTRANS | | Essex |
| Location 496 | 8.5 | 4.0 | VTRANS | | Essex |
| Location 497 | 8.6 | 4.0 | VTRANS | | Essex |
| Location 498 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Essex |
| Location 499 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Essex |
| Location 500 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Essex |
| Location 501 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Essex |
| Location 502 | ROADBORE | 5.0 | Road Crossing | Essex Way, Pipeline locator indicated a depth of 7.8 feet in roadway. | Essex |
| Location 503 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Essex |
| Location 504 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 505 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 506 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 507 | 6.7 | 4.0 | VTRANS | | Essex |
| Location 508 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 509 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 510 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 511 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 512 | 8.2 | 4.0 | VTRANS | | Essex |
| Location 513 | 6.3 | 4.0 | VTRANS | | Essex |
| Location 514 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 515 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 516 Location 517 | 5.6 5.5 | 4.0 | VTRANS | | Essex |
| Location 517 | 5.5 | 4.0 | VTRANS VTRANS | | Essex |
| Location 519 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 520 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 521 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 522 | 5.0 | | VTRANS | | Essex |
| Location 523 | 5.4 | | VTRANS | | Essex |
| Location 524 | 5.2 | | VTRANS | | Essex |
| Location 525 | 6.2 | | VTRANS | | Essex |
| Location 526 | 5.9 | 4.0 | VTRANS | | Essex |
| Location 527 | 4.2 | | VTRANS | | Essex |
| Location 528 | 4.0 | | VTRANS | | Essex |
| Location 529 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 530 | 6.5 | 4.0 | VTRANS | | Essex |
| Location 531 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 532 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 533 | 6.3 | | VTRANS | | Essex |
| Location 534 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 535 | 4.8 | | VTRANS | | Essex |
| Location 536 | 6.6 | | VTRANS | | Essex |
| Location 537 | 8.0 | 4.0 | VTRANS | | Essex |
| Location 538 | 6.8 | 4.0 | VTRANS | | Essex |
| Location 539 | 6.0 | | VTRANS | | Essex |
| Location 540 | 5.8 | | VTRANS | Crossing ID #05, 2012-SC-CM-16 (I), Stream runs parallel to the pipe. | Essex |
| Location 541 | 6.3 | 4.0 | VTRANS | Crossing ID #05, 2012-SC-CM-16 (I), Stream runs parallel to the pipe. | Essex |
| Location 542 | 7.9 | 4.0 | VTRANS | Crossing ID #05, 2012-SC-CM-16 (I), Stream runs parallel to the pipe. | Essex |

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| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier# | - | Depth | • | | |
| Location 543 | 8.9 | 4.0 | VTRANS | Crossing ID #05, 2012-SC-CM-16 (I), Stream runs parallel to the pipe. | Essex |
| Location 544 | 6.5 | 4.0 | VTRANS | | Essex |
| Location 545 | 7.2 | 4.0 | VTRANS | | Essex |
| Location 546 | 6.4 | 4.0 | VTRANS | | Essex |
| Location 547 | 7.4 | 4.0 | VTRANS | | Essex |
| Location 548 | 11.9 | 4.0 | VTRANS | | Essex |
| Location 549 | 9.5 | 4.0 | VTRANS | | Essex |
| Location 550 | 8.0 | 4.0 | VTRANS | | Essex |
| Location 551 | 7.1 | 4.0 | VTRANS | | Essex |
| Location 552 | 9.0 | 4.0 | VTRANS | | Essex |
| Location 553 | 9.9 | 4.0 | VTRANS | | Essex |
| Location 554 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 555 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 556 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 557 | 7.0 | 4.0 | VTRANS | | Essex |
| Location 558 | 8.5 | 4.0 | VTRANS | | Essex |
| Location 559 | 7.4 | 4.0 | VTRANS | | Essex |
| Location 560 | 6.7 | 4.0 | VTRANS | Crossing ID #6, 2012-TB-AB-1 (P), Pipe crosses at a culvert. No impact to stream channel. (Avoided, as noted in JAN-7) | Essex |
| Location 561 | 5.9 | 4.0 | VTRANS | Crossing ID #6, 2012-TB-AB-1 (P), Pipe crosses at a culvert. No impact to stream channel. (Avoided, as noted in JAN-7) | Essex |
| Location 562 | 6.3 | 4.0 | VTRANS | | Essex |
| Location 563 | 6.4 | 4.0 | VTRANS | | Essex |
| Location 564 | 6.5 | 4.0 | VTRANS | | Essex |
| Location 565 | 6.9 | 4.0 | VTRANS | | Essex |
| Location 566 | 6.8 | 4.0 | VTRANS | | Essex |
| Location 567 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 568 | 6.6 | 4.0 | VTRANS | | Essex |
| Location 569 | 10.7 | 4.0 | VTRANS | | Essex |
| Location 570 | 8.7 | 4.0 | VTRANS | | Essex |
| Location 571 | 6.7 | 4.0 | VTRANS | | Essex |
| Location 572 | 7.2 | 4.0 | VTRANS | | Essex |
| Location 573 | 7.0 | 4.0 | VTRANS | | Essex |
| Location 574 | 6.3 | 4.0 | VTRANS | | Essex |
| Location 575 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 576 | 6.4 | 4.0 | VTRANS | | Essex |
| Location 577 | 6.3 | 4.0 | VTRANS | | Essex |
| Location 578 | 5.6 | 4.0 | VTRANS | | Essex |
| Location 579 | 5.7 | 4.0 | VTRANS | | Essex |
| Location 580 | 7.4 | 4.0 | VTRANS | | Essex |
| Location 581 | 5.5 | | VTRANS VTRANS | | Essex |
| Location 582 | 4.6 | | | | Essex |
| Location 583 Location 584 | 7.0 6.9 | 4.0 | VTRANS VTRANS | | Essex Essex |
| Location 584 | 6.3 | 4.0 | VTRANS | | |
| Location 585 | 6.2 | 4.0 | VTRANS | | Essex Essex |
| Location 587 | 6.9 | 4.0 | VTRANS | | Essex |
| Location 588 | 6.7 | 4.0 | VTRANS | | Essex |
| Location 589 | 7.0 | 4.0 | VTRANS | | Essex |
| Location 590 | 5.0 | | VTRANS | | Essex |
| Location 591 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 592 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 593 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 594 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 595 | 6.9 | 4.0 | VTRANS | | Essex |
| Location 596 | 7.3 | 4.0 | VTRANS | | Essex |
| Location 597 | 7.1 | 4.0 | VTRANS | | Essex |
| Location 598 | 6.1 | | VTRANS | Crossing ID #7, 2012-SC-CM-22 (I), Pipe crosses at a culvert. No impact to stream channel. | Essex |
| Location 599 | 7.8 | 4.0 | VTRANS | Stream Chaine. | Essex |
| Location 600 | 8.7 | 4.0 | VTRANS | | Essex |
| | J., | 1.0 | | 1 | 12350 |

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| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | • | Depth | • | | |
| Location 601 | 8.1 | 4.0 | VTRANS | | Essex |
| Location 602 | 6.7 | 4.0 | VTRANS | | Essex |
| Location 603 | 7.5 | 4.0 | VTRANS | | Essex |
| Location 604 | 6.5 | 4.0 | VTRANS | | Essex |
| Location 605 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 606 | 5.9 | 4.0 | VTRANS | | Essex |
| Location 607 | 6.2 | 4.0 | VTRANS | | Essex |
| Location 608 Location 609 | 6.2 5.3 | 4.0 | VTRANS VTRANS | | Essex |
| Location 610 | 5.1 | 4.0 | VTRANS | | Essex Essex |
| Location 611 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 612 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 613 | 5.9 | 4.0 | VTRANS | | Essex |
| Location 614 | 6.4 | 4.0 | VTRANS | | Essex |
| Location 615 | 6.4 | 4.0 | VTRANS | | Essex |
| Location 616 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 617 | 5.5 | 4.0 | VTRANS | | Essex |
| Location 618 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 619 | 6.9 | 4.0 | VTRANS | | Essex |
| Location 620 | 5.9 | 4.0 | VTRANS | | Essex |
| Location 621 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 622 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 623 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 624 | 7.4 | 4.0 | VTRANS | | Essex |
| Location 625 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 626 | 7.0 | 4.0 | VTRANS | | Essex |
| Location 627 | 6.9 | 4.0 | VTRANS | | Essex |
| Location 628 | 6.3 | 4.0 | VTRANS | | Essex |
| Location 629 Location 630 | 6.0 7.0 | 4.0 | VTRANS VTRANS | | Essex Essex |
| Location 631 | 5.7 | 4.0 | VTRANS | | Essex |
| Location 632 | 5.9 | 4.0 | VTRANS | | Essex |
| Location 633 | 6.2 | 4.0 | VTRANS | | Essex |
| Location 634 | 5.4 | 4.0 | VTRANS | | Essex |
| Location 635 | 5.1 | 4.0 | VTRANS | | Essex |
| Location 636 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 637 | 5.8 | 4.0 | VTRANS | | Essex |
| Location 638 | 6.9 | 4.0 | VTRANS | | Essex |
| Location 639 | 5.9 | 4.0 | VTRANS | | Essex |
| Location 640 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 641 | 7.3 | | VTRANS | | Essex |
| Location 642 | 5.5 | | VTRANS | | Essex |
| Location 643 | 5.7 | 4.0 | VTRANS | | Essex |
| Location 644 | 5.7 | | VTRANS | | Essex |
| Location 645 | 5.6 | | VTRANS | | Essex |
| Location 646 | 5.0 | | VTRANS | | Essex |
| Location 647 | 6.3 5.3 | | VTRANS VTRANS | | Essex |
| Location 648 Location 649 | 5.3 | | VTRANS | | Essex |
| Location 650 | 10.0 | | VTRANS | | Essex |
| Location 651 | 9.5 | | VTRANS | | Essex |
| Location 652 | 8.0 | | VTRANS | | Essex |
| Location 653 | 6.8 | | VTRANS | | Essex |
| Location 654 | 6.0 | | VTRANS | | Essex |
| Location 655 | 6.3 | | VTRANS | | Essex |
| Location 656 | 7.0 | | VTRANS | | Essex |
| Location 657 | 7.2 | 4.0 | VTRANS | | Essex |
| Location 658 | 7.5 | 4.0 | VTRANS | | Essex |
| Location 659 | 9.3 | 4.0 | VTRANS | | Essex |
| Location 660 | 9.3 | 4.0 | VTRANS | | Essex |
| Location 661 | 8.4 | 4.0 | VTRANS | | Essex |

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|------------------------------|--------------|------------|------------------|--|----------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | , | Depth | | | 10 |
| Location 662 | 7.8 | 4.0 | VTRANS | | Essex |
| Location 663 | 7.4 | 4.0 | VTRANS | | Essex |
| Location 664 | 7.4 | 4.0 | VTRANS | | Essex |
| Location 665 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 666 | 4.7 | 4.0 | VTRANS | | Essex |
| Location 667 | 6.1 | 4.0 | VTRANS | | Essex |
| Location 668 | 12.7 | 4.0 | VTRANS | | Essex |
| Location 669 | 12.5 | 4.0 | VTRANS | | Essex |
| Location 670 | 5.6 | 4.0 | VTRANS | | Essex |
| Location 671 | 5.7 | 4.0 | VTRANS | | Essex |
| Location 672 | 5.8 5.1 | 4.0 | VTRANS VTRANS | | Essex |
| Location 673 Location 674 | 5.3 | 4.0 | VTRANS | | Essex Essex |
| Location 675 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 676 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 677 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 678 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 679 | 4.4 | 4.0 | VTRANS | Crossing ID #08A, 2012-TB-AB (P), Pipe crosses at a culvert. No impact to stream channel. (Avoided, as noted in JAN-7) | Essex |
| Location 680 | 5.2 | 4.0 | VTRANS | | Essex |
| Location 681 | 6.0 | 4.0 | VTRANS | | Essex |
| Location 682 | 5.0 | 4.0 | VTRANS | | Essex |
| Location 683 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 684 | 5.4 | 4.0 | VTRANS | | Essex |
| Location 685 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 686 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 687 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 688 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 689 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 690 | 4.4 | 4.0 | VTRANS | | Essex |
| Location 691 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 692 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 693 Location 694 | 4.4 4.5 | 4.0 4.0 | VTRANS VTRANS | | Essex Essex |
| Location 695 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 696 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 697 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 698 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 699 | 4.9 | 4.0 | VTRANS | | Essex |
| Location 700 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 701 | 4.8 | | VTRANS | | Essex |
| Location 702 | 5.0 | | VTRANS | | Essex |
| Location 703 | 4.8 | 4.0 | VTRANS | | Essex |
| Location 704 | 4.5 | 4.0 | VTRANS | | Essex |
| Location 705 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 706 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 707 | 4.4 | | VTRANS | | Essex |
| Location 708 | 4.1 | 4.0 | VTRANS | | Essex |
| Location 709 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 710 | 4.6 | | VTRANS | | Essex |
| Location 711 | 5.5 | | VTRANS | | Essex |
| Location 712 | 4.0 | | VTRANS | | Essex |
| Location 713 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 714 | 4.3 | | VTRANS | | Essex |
| Location 715 | 4.3 | 4.0 | VTRANS | | Essex |
| Location 716 | 4.2 5.1 | | VTRANS VTRANS | | Essex |
| Location 717 Location 718 | 4.0 | | VTRANS | | Essex Essex |
| Location 718 | 4.0 | | VTRANS | | Essex |
| Location 720 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 721 | 4.1 | 4.0 | VTRANS | | Essex |
| | | 5 | · ···- | I . | 1 |

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| Location Identifier # | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Location 722 | 4.6 | 4.0 | VTRANS | | Essex |
| Location 723 | 4.0 | 4.0 | VTRANS | | Essex |
| Location 724 | 5.3 | 4.0 | VTRANS | | Essex |
| Location 725 | 6.7 | 4.0 | VTRANS | | Essex |
| Location 726 | 6.2 | 4.0 | VTRANS | | Essex |
| Location 727 | 4.2 | 4.0 | VTRANS | | Essex |
| Location 728 | 3.7 | 3.0 | PHMSA | | Essex |
| Location 729 | 5.2 | 3.0 | PHMSA | | Essex |
| Location 730 | 12.3 | 7.0 | DEC Stream | Crossing ID #124, 2012-TB-AB-7 (P) (Alder Brook) | Essex |
| Location 731 | 14.0 | 7.0 | DEC Stream | Crossing ID #124, 2012-TB-AB-7 (P) (Alder Brook) | Essex |
| Location 732 | 16.7 | 7.0 | DEC Stream | Crossing ID #124, 2012-TB-AB-7 (P) (Alder Brook) | Essex |
| Location 733 | 15.6 | 7.0 | DEC Stream | Crossing ID #124, 2012-TB-AB-7 (P) (Alder Brook) | Essex |
| Location 734 | 6.0 | 3.0 | PHMSA | | Essex |
| Location 735 | 5.4 | 3.0 | PHMSA | | Essex |
| Location 736 | 6.3 | 3.0 | PHMSA | | Essex |
| Location 737 | 6.3 | 3.0 | PHMSA | | Essex |
| Location 738 | 5.9 | 3.0 | PHMSA | | Essex |
| Location 739 | 6.2 | 3.0 | PHMSA | | Essex |
| Location 740 | 5.9 | 3.0 | PHMSA | | Essex |
| Location 741 | 6.2 | 3.0 | PHMSA | | Essex |
| Location 742 | 4.4 | 4.0 | Agriculture | | Essex |
| Location 743 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 744 Location 745 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 745 | 4.3 | 4.0 | Agriculture | | Essex |
| Location 747 | 4.0 | 4.0 | Agriculture Agriculture | | Essex Essex |
| Location 747 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 748 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 750 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 751 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 752 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 753 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 754 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 755 | 4.4 | 4.0 | Agriculture | | Essex |
| Location 756 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 757 | 4.4 | 4.0 | Agriculture | | Essex |
| Location 758 | 4.1 | 4.0 | Agriculture | | Essex |
| Location 759 | 4.1 | 4.0 | Agriculture | | Essex |
| Location 760 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 761 | 4.0 | 4.0 | Agriculture | | Essex |
| Location 762 | HDD | 5.0 | Road Crossing | Route 117 (River Road), Pipeline locator indicated a depth of 8.6 feet in roadway. | Essex |
| Location 763 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Essex |
| Location 764 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Essex |
| Location 765 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Essex |
| Location 766 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Essex |
| Location 767 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Essex |
| Location 768 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Essex |
| Location 769 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Essex |
| | | | | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Estimated location for | _ |
| Location 770 | HDD | 7.0 | DEC Stream | Depth from HDD profile (16.0 feet). Subject to USCAE as-built submittal. See | Essex |
| | | | | Permit Modification (M1) issued by the USACE dated July 31, 2015. | |
| | | | DEG 6. | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Based on HDD Profile, | _ |
| Location 771 | HDD | 7.0 | DEC Stream | minimum depth is at least 7.0 feet. Subject to USCAE as-built submittal. See | Essex |
| | | | | Permit Modification (M1) issued by the USACE dated July 31, 2015. | |
| Lanable : 330 | 1100 | 7.0 | DEC Change | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Based on HDD Profile, | F |
| Location 772 | HDD | 7.0 | DEC Stream | minimum depth is at least 7.0 feet. Subject to USCAE as-built submittal. See | Essex |
| | | | | Permit Modification (M1) issued by the USACE dated July 31, 2015. | |
| Location 773 | HDD | 7.0 | DEC Stream | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Based on HDD Profile, minimum depth is at least 7.0 feet. Subject to USCAE as-built submittal. See | Essex |
| LOCATION //3 | טטוו | 7.0 | DEC Stream | Permit Modification (M1) issued by the USACE dated July 31, 2015. | LOSEA |
| | | | | i errint mounication (mit) issued by the OSACE dated July 31, 2013. | |

| Generic Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
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| Location 774 | HDD | 7.0 | DEC Stream | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Based on HDD Profile, minimum depth is at least 7.0 feet. Subject to USCAE as-built submittal. See Permit Modification (M1) issued by the USACE dated July 31, 2015. | Essex |
| Location 775 | HDD | 7.0 | DEC Stream | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Based on HDD Profile, minimum depth is at least 7.0 feet. Subject to USCAE as-built submittal. See Permit Modification (M1) issued by the USACE dated July 31, 2015. | Williston |
| Location 776 | HDD | 7.0 | DEC Stream | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Based on HDD Profile, minimum depth is at least 7.0 feet. Subject to USCAE as-built submittal. See Permit Modification (M1) issued by the USACE dated July 31, 2015. | Williston |
| Location 777 | HDD | 7.0 | DEC Stream | Crossing ID #09, 2012-TB-WR (P) (Winooski River), Estimated location for Depth from HDD Profile (20.0 feet). Subject to USCAE as-built submittal. See Permit Modification (M1) issued by the USACE dated July 31, 2015. | Williston |
| Location 778 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 779 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 780 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 781 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 782 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 783 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 784 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 785 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 786 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 787 | 4.2 | 4.0 | Agriculture | | Williston |
| Location 788 | 4.1 | 4.0 | Agriculture | | Williston |
| Location 789 | 4.1 | 4.0 | Agriculture | | Williston |
| Location 790 | 4.1 | 4.0 | Agriculture | | Williston |
| Location 791 | 4.0 | 4.0 | Agriculture | | Williston |
| Location 792 | 4.0 | 4.0 | Agriculture | | Williston |
| Location 793 | 4.6 | 4.0 | Agriculture | | Williston |
| Location 794 | 7.9 | 4.0 | Agriculture | | Williston |
| Location 795 | 9.3 | 4.0 | Agriculture | Crossing ID #10, 2012-SC-CM-84 (I) | Williston |
| Location 796 | 8.8 | 4.0 | Agriculture | Crossing ID #10, 2012-SC-CM-84 (I) | Williston |
| Location 797 | 7.4 | 4.0 | Agriculture | | Williston |
| Location 798 | 4.3 | 4.0 | Agriculture | | Williston |
| Location 799 | 4.2 | 4.0 | Agriculture | | Williston Williston |
| Location 800 | 4.3 | 4.0 | Agriculture | | Williston |
| Location 801 Location 802 | 6.2 | 4.0 | Agriculture Agriculture | | Williston |
| Location 803 | 4.3 | 4.0 | Agriculture | | Williston |
| Location 804 | 4.3 | 4.0 | Agriculture | | Williston |
| Location 805 | 4.6 | 4.0 | Agriculture | | Williston |
| Location 806 | 4.1 | 4.0 | Agriculture | | Williston |
| Location 807 | 4.9 | 4.0 | Agriculture | | Williston |
| Location 808 | 4.6 | 4.0 | Agriculture | | Williston |
| Location 809 | 4.0 | 4.0 | Agriculture | | Williston |
| Location 810 | 5.0 | 4.0 | Agriculture | | Williston |
| Location 811 | 6.3 | 4.0 | Agriculture | | Williston |
| Location 812 | 7.5 | 4.0 | Agriculture | | Williston |
| Location 813 | 8.4 | 4.0 | Agriculture | | Williston |
| Location 814 | 11.8 | 4.0 | Agriculture | | Williston |
| Location 815 | 19.3 | 4.0 | Agriculture | | Williston |
| Location 816 | 11.9 | 10.0 | Railroad Crossing | | Williston |
| Location 817 | 12.9 | 3.0 | PHMSA | | Williston |
| Location 818 | 14.8 | 3.0 | PHMSA | | Williston |
| Location 819 | 13.1 | 3.0 | PHMSA | | Williston |
| Location 820 | 8.6 | 3.0 | PHMSA | | Williston |
| Location 821 | 6.3 | 3.0 | PHMSA | | Williston |
| Location 822 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 823 | 3.4 | 3.0 | PHMSA | | Williston |
| Location 824 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 825 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 826 | 3.2 | 3.0 | PHMSA | | Williston |

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| Incidence 2 | | Actual Depth | Required | Reason for Depth | Notes | Town |
| Location 828 3.3 3.0 PMMSA Williston Location 830 3.0 3.0 PMMSA Williston Location 830 3.0 3.0 PMMSA Williston Location 831 3.0 3.0 PMMSA Williston Location 832 3.2 3.0 PMMSA Williston Location 832 3.2 3.0 PMMSA Williston Location 834 4.0 3.0 PMMSA Williston Location 834 4.0 3.0 PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Depth pending final inspection after review of as-builts per VTRANS PMMSA Identifier # | | Depth | - | | |
| Location 829 3.0 3.0 PHMSA Williston Location 831 3.0 3.0 PHMSA Williston Location 831 3.0 3.0 PHMSA Williston Williston Location 833 3.2 3.0 PHMSA Williston Location 833 5.7 3.0 PHMSA Williston Location 835 4.0 3.3 PHMSA Williston Location 835 3.0 4.0 VTRANS Depth pending final imspection after review of as builts per VTRANS permit. Williston Location 837 3.8 4.0 VTRANS Depth pending final imspection after review of as builts per VTRANS permit. Williston Location 837 3.8 4.0 VTRANS Depth pending final imspection after review of as builts per VTRANS permit. Williston Location 839 3.0 4.0 VTRANS Depth pending final imspection after review of as builts per VTRANS permit. Williston Location 839 3.0 4.0 VTRANS Depth pending final imspection after review of as builts per VTRANS permit. Williston Location 840 3.0 3.0 PHMSA Depth pending final imspection after review of as builts per VTRANS permit. Williston Location 841 3.4 3.0 PHMSA PHMS | Location 827 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 830 3.0 3.0 PHMSA Williston Location 812 3.2 3.0 PHMSA Williston Location 813 3.0 3.0 PHMSA Williston Location 813 3.0 3.0 PHMSA Williston Location 834 4.0 3.0 PHMSA Williston Location 835 3.0 4.0 VTRANS Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 836 3.7 4.0 VTRANS Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 836 3.7 4.0 VTRANS Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 818 3.3 4.0 VTRANS Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 818 3.3 4.0 VTRANS Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 840 3.0 3.0 PHMSA Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 840 3.0 3.0 PHMSA Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 840 3.0 3.0 PHMSA Depth pending final inspection after review of as-builts per VTRANS permit. Williston Location 840 3.0 3.0 PHMSA Williston Location 840 3.0 3.0 PHMSA Williston Location 840 3.0 3.0 PHMSA Williston Location 841 3.0 3.0 PHMSA Williston Location 841 3.0 3.0 PHMSA Williston Location 841 3.0 3.0 PHMSA Williston Location 843 3.3 3.0 PHMSA Williston Location 844 4.4 3.0 3.0 PHMSA Williston Location 855 3.3 3.0 PHMSA Williston Location 857 4.2 3.0 PHMSA Williston | Location 828 | 3.3 | 3.0 | PHMSA | | Williston |
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| Location 933 3.8 3.0 PHMSA Williston Location 934 3.3 3.0 PHMSA Williston Location 935 3.7 3.0 PHMSA Williston Location 936 3.0 3.0 PHMSA Williston Location 937 3.1 3.0 PHMSA Williston Location 938 3.2 3.0 PHMSA Williston Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | Location 931 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 934 3.3 3.0 PHMSA Williston Location 935 3.7 3.0 PHMSA Williston Location 936 3.0 3.0 PHMSA Williston Location 937 3.1 3.0 PHMSA Williston Location 938 3.2 3.0 PHMSA Williston Location 939 3.1 3.0 PHMSA Williston Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | Location 932 | | 3.0 | PHMSA | | |
| Location 935 3.7 3.0 PHMSA Williston Location 936 3.0 3.0 PHMSA Williston Location 937 3.1 3.0 PHMSA Williston Location 938 3.2 3.0 PHMSA Williston Location 939 3.1 3.0 PHMSA Williston Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 936 3.0 3.0 PHMSA Williston Location 937 3.1 3.0 PHMSA Williston Location 938 3.2 3.0 PHMSA Williston Location 939 3.1 3.0 PHMSA Williston Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 937 3.1 3.0 PHMSA Williston Location 938 3.2 3.0 PHMSA Williston Location 939 3.1 3.0 PHMSA Williston Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 938 3.2 3.0 PHMSA Williston Location 939 3.1 3.0 PHMSA Williston Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 939 3.1 3.0 PHMSA Williston Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 940 3.5 3.0 PHMSA Williston Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 941 3.1 3.0 PHMSA/Landowner Williston Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 942 3.2 3.0 PHMSA/Landowner Williston Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 943 4.0 3.0 PHMSA/Landowner Williston Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | <u> </u> | | |
| Location 944 3.3 3.0 PHMSA Williston Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | • | | |
| Location 945 3.0 3.0 PHMSA Williston Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | • | | |
| Location 946 3.5 3.0 PHMSA Williston Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 947 3.0 3.0 PHMSA Williston | | | | | | |
| Location 948 3.5 3.0 PHMSA Williston | Location 947 | 3.0 | 3.0 | PHMSA | | Williston |
| | Location 948 | 3.5 | 3.0 | PHMSA | | Williston |

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|------------------------------|--------------|----------|------------------|---|------------------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | | |
| Location 949 | 6.7 | 3.0 | PHMSA | | Williston |
| Location 950 | 7.0 | 3.0 | PHMSA | | Williston |
| Location 951 | 6.2 | 3.0 | PHMSA | | Williston |
| Location 952 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 953 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 954 | 3.1 | 3.0 | PHMSA | | Williston |
| Location 955 | 3.6 | 3.0 | PHMSA | | Williston |
| Location 956 | 5.3 | 3.0 | PHMSA | | Williston |
| Location 957 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 958 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 959 | 4.8 | 4.0 | VELCO | | Williston |
| Location 960 | 4.2 | 4.0 | VELCO | | Williston |
| Location 961 | 4.4 | 4.0 | VELCO | | Williston |
| Location 962 | 4.8 | 4.0 | VELCO | | Williston |
| Location 963 | 5.0 | 4.0 | VELCO | | Williston |
| Location 964 | 5.8 | | VELCO | | Williston |
| Location 965 | 8.9 | 4.0 | VELCO | | Williston |
| Location 966 | 9.5 | 4.0 | VELCO | | Williston |
| Location 967 | 7.3 | 4.0 | VELCO | | Williston |
| Location 968 | 6.5 | 4.0 | VELCO | | Williston |
| Location 969 | 10.6 | 4.0 | VELCO | | Williston |
| Location 970 | 8.9 | | VELCO | | Williston |
| Location 971 | 5.7 | 4.0 | VELCO | | Williston |
| Location 972 | 4.6 | 4.0 | VELCO | | Williston |
| Location 973 | 6.2 | 4.0 | VELCO | | Williston |
| Location 974 | 4.3 | 4.0 | VELCO | | Williston |
| Location 975 | 4.2 | 3.0 | PHMSA | | Williston Williston |
| Location 976 Location 977 | 4.4 | 3.0 | PHMSA PHMSA | | Williston |
| Location 977 | 3.0 4.2 | 3.0 | PHMSA | | Williston |
| Location 979 | 3.6 | 3.0 | PHMSA | | Williston |
| Location 980 | 3.6 | 3.0 | PHMSA | | Williston |
| Location 981 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 982 | 4.6 | 3.0 | PHMSA | | Williston |
| Location 983 | 6.1 | | PHMSA | | Williston |
| Location 984 | 6.6 | 3.0 | PHMSA | Crossing ID #12, 2012-SC-CM-57 (I) | Williston |
| Location 985 | 6.7 | | PHMSA | Crossing ID #12, 2012-SC-CM-57 (I), Estimated location for Depth of 7.6 feet by locator on 7/28/2017 in stream channel. | Williston |
| Location 986 | 6.4 | 3.0 | PHMSA | ay toodest on 7, 25, 2527 in our cam chainen | Williston |
| Location 987 | 4.1 | | PHMSA | | Williston |
| Location 988 | 4.1 | | PHMSA | | Williston |
| Location 989 | 3.0 | | PHMSA | | Williston |
| Location 990 | 3.2 | 3.0 | PHMSA | | Williston |
| Location 991 | 3.7 | | PHMSA | | Williston |
| Location 992 | 3.0 | | PHMSA | | Williston |
| Location 993 | 3.7 | | PHMSA | | Williston |
| Location 994 | 3.4 | | PHMSA | | Williston |
| Location 995 | 3.0 | | PHMSA | | Williston |
| Location 996 | 3.4 | 3.0 | PHMSA | | Williston |
| Location 997 | 3.5 | 3.0 | PHMSA | | Williston |
| Location 998 | 3.1 | 3.0 | PHMSA | | Williston |
| Location 999 | 3.6 | | PHMSA | | Williston |
| Location 1000 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1001 | 4.1 | 3.0 | PHMSA | | Williston |
| Location 1002 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1003 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1004 | 3.6 | 3.0 | PHMSA | | Williston |
| Location 1005 | 3.8 | 3.0 | PHMSA | | Williston |
| Location 1006 | 3.5 | 3.0 | PHMSA | | Williston |
| Location 1007 | 3.5 | 3.0 | PHMSA | | Williston |
| Location 1008 | 3.4 | 3.0 | PHMSA | | Williston |

| Generic | | Required | | | |
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| Location Identifier # | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Location 1009 | 3.7 | 3.0 | PHMSA | | Williston |
| Location 1010 | 3.7 | 3.0 | PHMSA | | Williston |
| Location 1011 | 3.7 | 3.0 | PHMSA | | Williston |
| Location 1012 | 3.8 | 3.0 | PHMSA | | Williston |
| Location 1013 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1014 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1015 | 3.9 | 3.0 | PHMSA | | Williston |
| Location 1016 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1017 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1018 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1019 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1020 | 5.1 | 4.0 | VELCO | | Williston |
| Location 1021 | 4.2 | 4.0 | VELCO | | Williston |
| Location 1022 | 4.9 | 4.0 | VELCO | | Williston |
| Location 1023 | 5.0 | 4.0 | VELCO | | Williston |
| Location 1024 | 4.9 | 4.0 | VELCO | | Williston |
| Location 1025 | 5.3 | 3.0 | PHMSA | | Williston |
| Location 1026 | 5.3 | 3.0 | PHMSA | D | Williston |
| Location 1027 | 3.3 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1028 | 3.7 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1029 | 4.1 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1030 | 4.2 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1031 | 3.4 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1032 | 3.7 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 | Williston |
| Location 1033 | 3.7 | 4.0 | VTRANS | (dated 10/7/2015) for information. Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 | Williston |
| Location 1034 | 4.1 | 4.0 | VTRANS | (dated 10/7/2015) for information. Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 | Williston |
| Location 1035 | 5.2 | 4.0 | VTRANS | (dated 10/7/2015) for information. Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 | Williston |
| _ | | | | (dated 10/7/2015) for information. Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 | |
| Location 1036 | 6.3 | 4.0 | VTRANS | (dated 10/7/2015) for information. Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 | Williston |
| Location 1037 | 7.2 | 4.0 | VTRANS | (dated 10/7/2015) for information. | Williston |
| Location 1038 | 5.0 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1039 | 4.6 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1040 | 3.9 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1041 | 4.2 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1042 | 4.0 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1043 | 4.3 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1044 | 4.3 | 4.0 | VTRANS | Depth accepted - VTRANS Cut Area # VTRANS-1, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1045 | 4.0 | 4.0 | VTRANS | Tuated 10/7/2013/10/11/10/11/10/11/ | Williston |
| Location 1046 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1047 | 3.1 | 3.0 | PHMSA | | Williston |
| Location 1048 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1049 | 3.2 | 3.0 | PHMSA | | Williston |
| Location 1050 | 3.5 | 3.0 | PHMSA | | Williston |
| Location 1051 | 4.0 | 3.0 | PHMSA | | Williston |

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| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | | |
| Location 1052 | 3.6 | 3.0 | PHMSA | | Williston |
| Location 1053 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1054 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1055 | 3.4 | 3.0 | PHMSA | | Williston |
| Location 1056 | 3.3 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| LOCATION 1036 | 3.3 | 3.0 | VIRANS | for information. | Williston |
| Location 1057 | 3.2 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| Location 1037 | 3.2 | 3.0 | VINANS | for information. | Williston |
| Location 1058 | 3.5 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| | 3.3 | 3.0 | VIIIANS | for information. | Williston |
| Location 1059 | 3.2 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| | 3.2 | 3.0 | VIIIANS | for information. | Williston |
| Location 1060 | 3.3 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| | 5.5 | 3.0 | VIIIANS | for information. | Williston |
| Location 1061 | 3.5 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| | 3.3 | 3.0 | 7110.003 | for information. | · · · · · · · · · · · · · · · · · · · |
| Location 1062 | 3.2 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| | 5.2 | 5.0 | | for information. | |
| Location 1063 | 3.0 | 3.0 | VTRANS | VTRANS Cut Area # VTRANS-2, See Permit Amendment #6 (dated 10/7/2015) | Williston |
| | | | | for information. | |
| Location 1064 | 3.1 | 3.0 | PHMSA | | Williston |
| Location 1065 | 3.2 | 3.0 | PHMSA | | Williston |
| Location 1066 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1067 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1068 | 3.2 | 3.0 | PHMSA | | Williston |
| Location 1069 | 3.1 | 3.0 | PHMSA | | Williston |
| Location 1070 | 3.1 | 3.0 | PHMSA | | Williston |
| Location 1071 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1072 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1073 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1074 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1075 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1076 Location 1077 | 3.4 3.6 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1078 | 3.6 | 3.0 | PHMSA | | Williston |
| Location 1079 | 3.7 | 3.0 | PHMSA | | Williston |
| Location 1080 | 3.7 | 3.0 | PHMSA | | Williston |
| Location 1081 | 3.1 | 3.0 | PHMSA | | Williston |
| Location 1082 | 3.0 | 3.0 | PHMSA | | Williston |
| Location 1083 | 6.0 | 3.0 | PHMSA | | Williston |
| Location 1084 | 6.4 | | PHMSA | | Williston |
| Location 1085 | 7.6 | | PHMSA | | Williston |
| Location 1086 | 10.9 | 5.0 | Road Crossing | Mountain View Drive | Williston |
| Location 1087 | 9.5 | | Road Crossing | Mountain View Drive | Williston |
| Location 1088 | 10.7 | | PHMSA | | Williston |
| Location 1089 | 11.1 | 3.0 | PHMSA | | Williston |
| Location 1090 | 10.8 | 3.0 | PHMSA | | Williston |
| Location 1091 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1092 | 3.9 | 3.0 | PHMSA | | Williston |
| Location 1093 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1094 | 3.5 | 3.0 | PHMSA | | Williston |
| Location 1095 | 3.6 | 3.0 | PHMSA | | Williston |
| Location 1096 | 3.7 | 3.0 | PHMSA | | Williston |
| Location 1097 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1098 | 3.5 | 3.0 | PHMSA | | Williston |
| Location 1099 | 3.3 | 3.0 | PHMSA | | Williston |
| Location 1100 | 3.4 | 3.0 | PHMSA | | Williston |
| Location 1101 | 3.4 | 3.0 | PHMSA | | Williston |
| Location 1102 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1103 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1104 | 4.1 | 4.0 | VTRANS | | Williston |

| Generic Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
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| Location 1105 | 4.2 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1106 | 4.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1107 | 4.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1108 | 4.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1109 | 4.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1110 | 4.4 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1111 | 4.6 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1112 | 4.3 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-3, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1113 | 4.6 | 4.0 | VTRANS | | Williston |
| Location 1114 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1115 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1116 | 4.0 | 4.0 | VTRANS | | Williston |
| Location 1117 | 4.1 | 4.0 | VTRANS | | Williston |
| Location 1118 | 4.2 | 4.0 | VTRANS | | Williston |
| Location 1119 | 4.8 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-4, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1120 | 4.3 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-4, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1121 | 4.4 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-4, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1122 | 4.3 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-4, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1123 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1124 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1125 | 4.0 | 4.0 | VTRANS | | Williston |
| Location 1126 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1127 | 4.1 | 4.0 | VTRANS | | Williston |
| Location 1128 | 4.0 | 4.0 | VTRANS | | Williston |
| Location 1129 | 4.9 | 4.0 | VTRANS | | Williston |
| Location 1130 | 4.9 | 4.0 | VTRANS | | Williston |
| Location 1131 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1132 | 4.1 | 4.0 | VTRANS | | Williston |
| Location 1133 | 4.0 | 4.0 | VTRANS | | Williston |
| Location 1134 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1135 | 4.6 | 4.0 | VTRANS | | Williston |
| Location 1136 | 4.2 | 4.0 | VTRANS | | Williston |
| Location 1137 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1138 | 4.6 | 4.0 | VTRANS | | Williston |
| Location 1139 | 4.8 | 4.0 | VTRANS | | Williston |
| Location 1140 | 4.4 | 4.0 | VTRANS | | Williston |
| Location 1141 | 4.2 | 4.0 | VTRANS | | Williston |
| Location 1142 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1143 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1144 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1145 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1146 | 4.2 | 4.0 | VTRANS | | Williston |
| Location 1147 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1148 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1149 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1150 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1151 | 4.1 | 4.0 | VTRANS | | Williston |
| Location 1152 | 4.7 | 4.0 | VTRANS | | Williston |
| Location 1153 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1154 | 4.1 | 4.0 | VTRANS | | Williston |

| Generic | | Required | | | 1 |
|--------------------------|--------------|----------|------------------|--|-----------|
| Location Identifier # | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Location 1155 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1156 | 4.2 | 4.0 | VTRANS | | Williston |
| Location 1157 | 5.9 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-5, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1158 | 5.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-5, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1159 | 4.0 | 4.0 | VTRANS | | Williston |
| Location 1160 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1161 | 5.9 | 4.0 | VTRANS | | Williston |
| Location 1162 | 5.7 | 4.0 | VTRANS | | Williston |
| Location 1163 | 5.7 | 4.0 | VTRANS | | Williston |
| Location 1164 | 5.7 | 4.0 | VTRANS | | Williston |
| Location 1165 | 5.4 | 4.0 | VTRANS | | Williston |
| Location 1166 | 4.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-6, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1167 | 5.3 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-6, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1168 | 5.3 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-6, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1169 | 4.2 | 4.0 | VTRANS | | Williston |
| Location 1170 | 4.2 | 4.0 | VTRANS | | Williston |
| Location 1171 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1172 | 4.0 | 4.0 | VTRANS | | Williston |
| Location 1173 | 4.7 | 4.0 | VTRANS | | Williston |
| Location 1174 | 4.8 | 4.0 | VTRANS | | Williston |
| Location 1175 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1176 | 4.4 | 4.0 | VTRANS | | Williston |
| Location 1177 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1178 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1179 | 4.7 | 4.0 | VTRANS | | Williston |
| Location 1180 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1181 | 4.7 | 4.0 | VTRANS | | Williston |
| Location 1182 | 4.3 | 4.0 | VTRANS | ATDANG C. I. A HATDANG T. C D 'I. A II. C. I. | Williston |
| Location 1183 | 4.6 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-7, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1184 | 4.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-7, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1185 | 5.4 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-7, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1186 | 5.6 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-7, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1187 | 5.4 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-7, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1188 | 5.1 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-7, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1189 | 4.9 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-7, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1190 | 4.9 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-8, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1191 | 4.4 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-8, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1192 | 4.2 | 4.0 | VTRANS | VTRANS Cut Area # VTRANS-8, See Permit Amendment #6 (dated 10/7/2015) for information. | Williston |
| Location 1193 | 5.4 | 4.0 | VTRANS | | Williston |
| Location 1194 | 4.4 | 4.0 | VTRANS | | Williston |
| Location 1195 | 4.6 | 4.0 | VTRANS | | Williston |
| Location 1196 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1197 | 4.1 | 4.0 | VTRANS | | Williston |
| Location 1198 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1199 | 4.3 | 4.0 | VTRANS | | Williston |

| Location 1200 5-9 | Generic Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
|--|-------------------------------------|--------------|-------------------|------------------|---|-----------|
| Location 2002 4.1 | Location 1200 | 5.9 | 4.0 | VTRANS | | Williston |
| Location 1202 A.1 | Location 1201 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1204 4.0 4.0 VTRANS | Location 1202 | 4.1 | 4.0 | VTRANS | | Williston |
| Location 1205 4.5 4.0 VIRANS | Location 1203 | 4.3 | 4.0 | VTRANS | for information. | Williston |
| Location 1206 | Location 1204 | 4.0 | 4.0 | VTRANS | for information. | Williston |
| Location 120 5.0 4.0 VIRANS Williston Location 120 5.0 4.0 VIRANS Williston Location 1208 4.1 4.0 VIRANS Williston Location 1208 4.1 4.0 VIRANS Williston Location 1201 5.0 4.0 VIRANS Williston Location 1201 5.0 4.0 VIRANS Williston Location 1211 4.1 4.0 VIRANS Williston Location 1211 4.1 4.0 VIRANS Williston Location 1213 4.0 4.0 VIRANS Williston Location 1213 4.0 4.0 VIRANS Williston Location 1213 4.0 4.0 VIRANS Williston Location 1215 5.3 4.0 VIRANS Williston Location 1215 5.3 4.0 VIRANS Williston Location 1215 6.2 4.0 VIRANS Williston Location 1217 4.6 4.0 VIRANS Williston Location 1219 5.3 4.0 VIRANS Williston Location 1219 5.5 4.0 VIRANS Williston Location 1219 5.5 4.0 VIRANS Williston Location 1219 5.5 4.0 VIRANS Williston Location 1219 5.6 4.0 VIRANS Williston Location 1220 5.6 4.0 VIRANS Williston Location 1221 7.0 4.0 VIRANS Williston Location 1222 7.0 4.0 VIRANS Williston Location 1222 8.8 4.0 VIRANS Williston Location 1223 4.8 4.0 VIRANS Williston Location 1224 8.8 4.0 VIRANS Williston Location 1225 8.8 4.0 VIRANS Williston Location 1226 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 [P] [Allen Brook] Williston Location 1226 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 [P] [Allen Brook] Williston Location 1226 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 [P] [Allen Brook] Williston Location 1227 4.6 4.0 VIRANS Williston Location 1228 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 [P] [Allen Brook] Williston Location 1236 5.0 4.0 VIRANS Williston Location 1237 4.0 4.0 VIRANS Williston Williston | Location 1205 | 4.5 | 4.0 | VTRANS | for information. | Williston |
| Location 1208 | | | | | | |
| Location 1209 | | | | | | |
| Location 1210 | | | | | | |
| Location 1211 | Location 1209 | | | | | |
| Location 1212 | Location 1210 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1213 | Location 1211 | 4.1 | 4.0 | | | |
| Location 1214 5.2 | Location 1212 | 4.0 | 4.0 | VTRANS | | Williston |
| Location 1215 6.3 | Location 1213 | 4.3 | 4.0 | VTRANS | | Williston |
| Location 1216 6.2 4.0 VTRANS Williston Location 1217 4.6 4.0 VTRANS Williston Location 1218 4.5 4.0 VTRANS Williston Location 1219 5.3 4.0 VTRANS Williston Location 1219 5.3 4.0 VTRANS Williston Location 1219 5.3 4.0 VTRANS Williston Location 1212 7.0 4.0 VTRANS Williston Location 1221 7.0 4.0 VTRANS Williston Location 1222 5.8 4.0 VTRANS Williston Location 1223 4.8 4.0 VTRANS Williston Location 1224 6.4 4.0 VTRANS Williston Location 1224 6.4 4.0 VTRANS Williston Location 1225 9.1 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1226 10.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1226 10.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1229 10.3 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1229 10.3 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1229 10.4 4.0 VTRANS Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1229 10.4 4.0 VTRANS Williston Location 1229 4.6 4.0 VTRANS Williston Location 1231 4.7 4.0 VTRANS Williston Location 1231 4.7 4.0 VTRANS Williston Location 1234 4.8 4.0 VTRANS Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1236 9.1 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1236 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 P | Location 1214 | 5.2 | 4.0 | VTRANS | | Williston |
| Decation 1217 | Location 1215 | 6.3 | 4.0 | VTRANS | | Williston |
| Location 1218 | Location 1216 | 6.2 | 4.0 | VTRANS | | Williston |
| Location 1219 5.3 | Location 1217 | 4.6 | 4.0 | VTRANS | | Williston |
| Decation 1220 5.6 | Location 1218 | 4.5 | 4.0 | VTRANS | | Williston |
| Location 1221 7.0 | Location 1219 | 5.3 | 4.0 | VTRANS | | Williston |
| Location 1222 5.8 | Location 1220 | 5.6 | 4.0 | VTRANS | | Williston |
| Location 1223 | Location 1221 | 7.0 | 4.0 | VTRANS | | Williston |
| Location 1224 | Location 1222 | 5.8 | 4.0 | VTRANS | | Williston |
| Decation 1225 9.1 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1226 10.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1227 10.3 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1228 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1229 10.4 4.0 VTRANS Williston Location 1230 5.0 4.0 VTRANS Williston Location 1230 5.0 4.0 VTRANS Williston Location 1230 4.7 4.0 VTRANS Williston Location 1232 4.6 4.0 VTRANS Williston Location 1234 6.5 4.0 VTRANS Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1236 9.1 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1239 4.1 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4. | Location 1223 | 4.8 | 4.0 | VTRANS | | Williston |
| Location 1226 10.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1227 10.3 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1228 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1229 10.4 4.0 VTRANS Williston Location 1230 5.0 4.0 VTRANS Williston Location 1231 4.7 4.0 VTRANS Williston Location 1232 4.6 4.0 VTRANS Williston Location 1233 4.8 4.0 VTRANS Williston Location 1233 4.8 4.0 VTRANS Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1236 9.1 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Williston Location 1251 4.2 4.0 Agriculture Williston Williston Williston Williston Location 1252 4.8 4.0 Agriculture Williston Willist | Location 1224 | 6.4 | 4.0 | VTRANS | | Williston |
| Location 1227 10.3 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1228 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Williston Location 1229 10.4 4.0 VTRANS Williston Location 1230 5.0 4.0 VTRANS Williston Location 1231 4.7 4.0 VTRANS Williston Location 1232 4.6 4.0 VTRANS Williston Location 1233 4.8 4.0 VTRANS Williston Location 1233 4.8 4.0 VTRANS Williston Location 1234 6.5 4.0 VTRANS Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1237 6.4 3.0 PHMSA Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.8 4.0 Agriculture Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Location 1250 4.8 4.0 Agriculture Location 1250 4.8 4.0 Agriculture Location 1250 | Location 1225 | 9.1 | 7.0 | DEC Stream | Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) | Williston |
| Decation 1228 8.8 7.0 DEC Stream Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) Williston Location 1229 10.4 4.0 VTRANS Williston Williston Location 1230 5.0 4.0 VTRANS Williston Location 1231 4.7 4.0 VTRANS Williston Location 1232 4.6 4.0 VTRANS Williston Location 1232 4.6 4.0 VTRANS Williston Location 1233 4.8 4.0 VTRANS Williston Location 1234 6.5 4.0 VTRANS Williston Location 1234 6.5 4.0 VTRANS Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1237 6.4 3.0 PHMSA Williston Location 1237 6.4 3.0 PHMSA Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1250 4.8 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Williston Location 1252 4.8 4.0 Agriculture Location 1250 4.8 4.0 A | Location 1226 | 10.8 | 7.0 | DEC Stream | | Williston |
| Location 1229 10.4 4.0 VTRANS Williston Location 1230 5.0 4.0 VTRANS Williston Location 1231 4.7 4.0 VTRANS Williston Location 1232 4.6 4.0 VTRANS Williston Location 1233 4.8 4.0 VTRANS Williston Location 1234 4.5 4.0 VTRANS Williston Location 1234 4.5 4.0 VTRANS Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1236 9.1 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1237 6.4 3.0 PHMSA Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Williston Location 1252 4.8 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston Williston Location 1252 4.8 4.0 Agriculture Williston Location 1254 4.8 4.0 Agriculture Williston Location 1254 4.8 4.0 Agriculture Williston Location 1254 4.8 4.0 Agriculture Williston Location 1 | Location 1227 | 10.3 | 7.0 | DEC Stream | Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) | Williston |
| Location 1230 5.0 | Location 1228 | 8.8 | 7.0 | DEC Stream | Crossing ID #116, 2012-TB-ALB-1 (P) (Allen Brook) | Williston |
| Location 1231 4.7 | Location 1229 | 10.4 | 4.0 | VTRANS | | Williston |
| Location 1232 4.6 | Location 1230 | 5.0 | 4.0 | VTRANS | | Williston |
| Location 1233 4.8 | Location 1231 | 4.7 | 4.0 | VTRANS | | Williston |
| Location 1234 6.5 4.0 VTRANS Williston Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1236 9.1 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1237 6.4 3.0 PHMSA Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Williston Location 1252 4.8 4.0 Agriculture Williston Williston Williston Williston Location 1250 4.8 4.0 Agriculture Williston Williston Williston Williston Location 1252 4.8 4.0 Agriculture Williston Willi | Location 1232 | 4.6 | 4.0 | VTRANS | | Williston |
| Location 1235 9.7 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1236 9.1 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1237 6.4 3.0 PHMSA Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMS | Location 1233 | 4.8 | 4.0 | VTRANS | | Williston |
| Location 1236 9.1 5.0 Road Crossing Route 2 (Williston Road) Williston Location 1237 6.4 3.0 PHMSA Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston <t< td=""><td>Location 1234</td><td>6.5</td><td>4.0</td><td>VTRANS</td><td></td><td>Williston</td></t<> | Location 1234 | 6.5 | 4.0 | VTRANS | | Williston |
| Location 1237 6.4 3.0 PHMSA Williston Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2< | Location 1235 | 9.7 | | | Route 2 (Williston Road) | |
| Location 1238 5.8 3.0 PHMSA Williston Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston | ·- | | | _ | Route 2 (Williston Road) | |
| Location 1239 4.1 3.0 PHMSA Williston Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | | 6.4 | 3.0 | PHMSA | | |
| Location 1240 4.2 3.0 PHMSA Williston Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1238 | 5.8 | 3.0 | PHMSA | | Williston |
| Location 1241 4.6 3.0 PHMSA Williston Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1239 | 4.1 | 3.0 | PHMSA | | Williston |
| Location 1242 7.1 3.0 PHMSA Williston Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1240 | 4.2 | 3.0 | | | Williston |
| Location 1243 6.4 3.0 PHMSA Williston Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1241 | 4.6 | 3.0 | PHMSA | | Williston |
| Location 1244 4.2 3.0 PHMSA Williston Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1242 | 7.1 | 3.0 | PHMSA | | |
| Location 1245 4.3 3.0 PHMSA Williston Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1243 | 6.4 | 3.0 | PHMSA | | Williston |
| Location 1246 4.2 3.0 PHMSA Williston Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1244 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1247 4.8 3.0 PHMSA Williston Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1245 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1248 5.5 3.0 PHMSA Williston Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1246 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1249 5.5 3.0 PHMSA Williston Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1247 | 4.8 | 3.0 | PHMSA | | Williston |
| Location 1250 4.6 3.0 PHMSA Williston Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1248 | 5.5 | 3.0 | PHMSA | | Williston |
| Location 1251 4.2 4.0 Agriculture Williston Location 1252 4.8 4.0 Agriculture Williston | Location 1249 | 5.5 | 3.0 | PHMSA | | Williston |
| Location 1252 4.8 4.0 Agriculture Williston | Location 1250 | 4.6 | 3.0 | PHMSA | | Williston |
| | Location 1251 | 4.2 | 4.0 | Agriculture | | Williston |
| Location 1253 4.6 4.0 Agriculture Williston | Location 1252 | 4.8 | 4.0 | Agriculture | | Williston |
| | Location 1253 | 4.6 | 4.0 | Agriculture | | Williston |

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|--------------------------------|--------------|-------------------|-------------------------|--|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | • | | | |
| Location 1254 | 5.7 | 4.0 | Agriculture | | Williston |
| Location 1255 | 5.3 | 4.0 | Agriculture | | Williston |
| Location 1256 Location 1257 | 5.9 5.0 | 4.0 | Agriculture Agriculture | | Williston Williston |
| Location 1258 | 4.6 | | Agriculture | | Williston |
| Location 1259 | 4.6 | 4.0 | Agriculture | | Williston |
| Location 1260 | 4.8 | | Agriculture | | Williston |
| Location 1261 | 4.5 | 4.0 | Agriculture | | Williston |
| Location 1262 | 4.5 | 4.0 | Agriculture | | Williston |
| Location 1263 | 4.5 | 4.0 | Agriculture | | Williston |
| Location 1264 | 4.1 | 4.0 | Agriculture | | Williston |
| Location 1265 | 4.0 | 4.0 | Agriculture | | Williston |
| Location 1266 | 5.4 | 4.0 | Agriculture | | Williston |
| Location 1267 | 4.5 | 4.0 | Agriculture | | Williston |
| Location 1268 | 4.4 | 4.0 | Agriculture | | Williston |
| Location 1269 | 4.0 | 4.0 | Agriculture | | Williston |
| Location 1270 | 4.0 | 4.0 | Agriculture | | Williston |
| Location 1271 Location 1272 | 4.0 4.6 | 4.0 | Agriculture | | Williston |
| Location 1272 | 4.6 | 4.0 | Agriculture Agriculture | | Williston Williston |
| Location 1273 | 5.4 | | Agriculture | | Williston |
| Location 1275 | 5.6 | 4.0 | Agriculture | | Williston |
| Location 1276 | 5.2 | 4.0 | Agriculture | | Williston |
| Location 1277 | 5.2 | | Agriculture | | Williston |
| Location 1278 | 4.7 | 4.0 | Agriculture | | Williston |
| Location 1279 | 4.3 | 4.0 | Agriculture | | Williston |
| Location 1280 | 4.6 | 4.0 | Agriculture | | Williston |
| Location 1281 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1282 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1283 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1284 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1285 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1286 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1287 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1288 | 4.1 | 3.0 | PHMSA | | Williston |
| Location 1289 | 4.6 | 3.0 | PHMSA PHMSA | | Williston |
| Location 1290 Location 1291 | 4.6 4.8 | 3.0 | PHMSA | | Williston Williston |
| Location 1292 | 6.4 | 3.0 | PHMSA | Crossing ID #117, 2012-SC-CM-34 (I) | Williston |
| Location 1293 | 6.7 | 3.0 | PHMSA | Crossing ID #117, 2012-SC-CM-34 (I) | Williston |
| Location 1294 | 4.8 | 3.0 | PHMSA | crossing is willy, zoll so city si (i) | Williston |
| Location 1295 | 5.1 | | PHMSA | | Williston |
| Location 1296 | 4.4 | | PHMSA | | Williston |
| Location 1297 | 4.0 | | PHMSA | | Williston |
| Location 1298 | 6.2 | 3.0 | PHMSA | Crossing ID #15, 2012-TB-CM-35 (P) | Williston |
| Location 1299 | 5.7 | 3.0 | PHMSA | Crossing ID #15, 2012-TB-CM-35 (P) | Williston |
| Location 1300 | 4.9 | | PHMSA | | Williston |
| Location 1301 | 5.2 | 3.0 | PHMSA | | Williston |
| Location 1302 | 5.4 | 3.0 | PHMSA | Crossing ID #16, 2012-TB/SC-CM-36 (P) | Williston |
| Location 1303 | 5.4 | | PHMSA | Crossing ID #16, 2012-TB/SC-CM-36 (P) | Williston |
| Location 1304 | 4.8 | 3.0 | PHMSA | | Williston |
| Location 1305 | 5.5 5.5 | 3.0 | PHMSA | | Williston |
| Location 1306 Location 1307 | 4.4 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1307 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1309 | 4.1 | | PHMSA | | Williston |
| Location 1310 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1311 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1312 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1313 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1314 | 4.0 | 3.0 | PHMSA | | Williston |
| _ | | | | | |

| Location 1355 4.33 3.0 PMINSS PMINSS Milliston Mil | Generic | I | l | 1 | 1 | l |
|--|---------------|--------------|-------|------------------|--|-----------|
| Incident 1515 4.3 3.0 PMMA | | Actual Depth | | Reason for Depth | Notes | Town |
| Location 1316 MDD | Identifier# | | Depth | | | |
| | Location 1315 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1318 HOD | Location 1316 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 1319 HOD 40 VTRANS Sased on HDD Profile, minimum depth is at least 4.0 feet. Williston Location 1321 HOD 40 VTRANS Based on HDD Profile (an HDD Profile (27.0 feet), Williston Location 1322 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1323 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1324 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1325 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1325 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1326 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1327 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1327 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1329 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1329 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1331 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1331 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1331 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1333 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1333 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1333 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1334 HOD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Lo | Location 1317 | HDD | 22.0 | Road Crossing | I89 Northbound, Estimated location for Depth from HDD Profile (23.0 feet). | Williston |
| Bostino 1320 HDD 25.0 Road Crossing 88 Southbound, Extimated location for Depth from HDD Profile (27.0 feet), Williston Location 1322 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1324 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1324 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1326 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1326 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1326 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1326 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1328 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1328 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1330 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1330 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1332 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1337 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1337 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1337 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1336 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1340 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1340 HDD 3.0 PHMSA Rased on HDD Profile, minimum depth is at | Location 1318 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 1322 HDD | Location 1319 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| | Location 1320 | HDD | 25.0 | Road Crossing | I89 Southbound, Estimated location for Depth from HDD Profile (27.0 feet). | Williston |
| Location 1323 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1326 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1326 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1327 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1327 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1329 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1329 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1329 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1329 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1333 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1333 HDD 3.0 PHMSA Saed on HDD Profile, minimum depth is at least 3 of feet. Williston Location 1333 T3 S.0 Road Crossing Hurricane Lane Williston Location 1333 T3 S.0 Road Crossing Hurricane Lane Williston Location 1334 LD LOCATION LOCATI | Location 1321 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | Williston |
| Location 1324 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1326 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1327 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1328 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1328 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1329 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1329 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1329 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1331 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1332 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1332 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1332 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1333 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1334 6.3 S 5.0 Road Crossing Hurricane Lane Williston Location 1334 6.3 S DRAMSA Williston Location 1334 4.5 S 3.0 PMMSA Read on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1334 HDD 3.0 PMMSA Read on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1344 HDD 3.0 PMMSA Read on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1344 HDD 3.0 PMMSA Read on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1344 HDD 3.0 PMMSA Read on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1345 HDD | Location 1322 | HDD | 3.0 | PHMSA | Based on HDD Profile, minimum depth is at least 3.0 feet. | Williston |
| Location 1325 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1327 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1328 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1329 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1330 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1331 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1332 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1333 7.3 5.0 Road Crossing Hurricane Lane Williston Location 1333 7.3 5.0 Road Crossing Hurricane Lane Williston Location 1333 7.3 5.0 Road Crossing Hurricane Lane Williston Location 1334 6.3 5.0 Road Crossing Hurricane Lane Williston Location 1334 7.3 7.3 7.5 | | HDD | | | Based on HDD Profile, minimum depth is at least 3.0 feet. | |
| | Location 1324 | HDD | 3.0 | PHMSA | | |
| Location 1327 HDD | | | | | | |
| Location 1328 HDD | | | | | | |
| Decation 1329 HDD | | | | | | |
| Location 1330 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1332 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1334 Get Williston Location 1335 Total To | | | | | | |
| Decision 1331 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1334 F. | | | | | | |
| Decation 1332 | | | | | | |
| Location 1333 7.3 5.0 Road Crossing | | | | | | |
| Location 1334 6.3 5.0 Road Crossing | | | | | | |
| Location 1335 5.1 3.0 PMMSA Williston Williston Location 1337 4.2 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1338 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1340 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1340 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1341 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1342 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1342 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1344 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1344 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1345 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1346 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1346 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1349 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1349 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1349 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1350 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1351 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1355 HDD 3.0 PMMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1356 4.4 VELCO Williston | | | | - | | |
| | | | | | Hurricane Lane | |
| | | | | | | |
| Decation 1338 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston | | | | | | |
| Location 1339 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1340 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1342 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1342 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1343 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1344 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1344 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1345 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1345 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1347 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1349 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1349 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1351 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1351 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1352 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1352 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1355 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1355 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston Location 1355 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Will | | | | | | |
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| Location 1351 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston | | | | | | |
| Location 1352 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston | | | | | | |
| Location 1353 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston | | | | | | |
| Location 1354 HDD 3.0 PHMSA Based on HDD Profile, minimum depth is at least 3.0 feet. Williston | | | | | | |
| Location 1355 5.1 4.0 VELCO Williston Location 1356 6.3 4.0 VELCO Williston Location 1357 6.1 4.0 VELCO Williston Location 1358 4.8 4.0 VELCO Williston Location 1359 4.8 3.0 PHMSA Williston Location 1360 5.1 3.0 PHMSA Williston Location 1361 4.9 3.0 PHMSA Williston Location 1362 4.9 3.0 PHMSA Williston Location 1363 5.1 3.0 PHMSA Williston Location 1364 5.9 3.0 PHMSA Williston Location 1365 5.3 3.0 PHMSA Williston Location 1366 4.7 3.0 PHMSA Williston Location 1367 5.0 3.0 PHMSA Williston Location 1379 4.5 3.0 PHMSA Williston Location 1370 4.5< | | | | | | |
| Location 1356 6.3 4.0 VELCO Williston Location 1357 6.1 4.0 VELCO Williston Location 1358 4.8 4.0 VELCO Williston Location 1359 4.8 3.0 PHMSA Williston Location 1360 5.1 3.0 PHMSA Williston Location 1361 4.9 3.0 PHMSA Williston Location 1362 4.9 3.0 PHMSA Williston Location 1363 5.1 3.0 PHMSA Williston Location 1364 5.9 3.0 PHMSA Williston Location 1365 5.3 3.0 PHMSA Williston Location 1366 4.7 3.0 PHMSA Williston Location 1367 5.0 3.0 PHMSA Williston Location 1368 4.4 3.0 PHMSA Williston Location 1370 4.5 3.0 PHMSA Williston Location 1371 5.2< | | | | | | |
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| Location 1358 4.8 4.0 VELCO Williston Location 1359 4.8 3.0 PHMSA Williston Location 1360 5.1 3.0 PHMSA Williston Location 1361 4.9 3.0 PHMSA Williston Location 1362 4.9 3.0 PHMSA Williston Location 1363 5.1 3.0 PHMSA Williston Location 1364 5.9 3.0 PHMSA Williston Location 1365 5.3 3.0 PHMSA Williston Location 1366 4.7 3.0 PHMSA Williston Location 1367 5.0 3.0 PHMSA Williston Location 1368 4.4 3.0 PHMSA Williston Location 1370 4.5 3.0 PHMSA Williston Location 1371 5.2 3.0 PHMSA Williston Location 1372 4.7 3.0 PHMSA Williston Location 1374 4.8< | | | | | | |
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| Location 1371 5.2 3.0 PHMSA Williston Location 1372 4.7 3.0 PHMSA Williston Location 1373 4.8 3.0 PHMSA Williston Location 1374 4.8 3.0 PHMSA Williston | | | | | | |
| Location 1373 4.8 3.0 PHMSA Williston Location 1374 4.8 3.0 PHMSA Williston | | | | PHMSA | | |
| Location 1374 4.8 3.0 PHMSA Williston | Location 1372 | 4.7 | 3.0 | PHMSA | | Williston |
| | Location 1373 | 4.8 | 3.0 | PHMSA | | Williston |
| Location 1375 5.8 3.0 PHMSA Williston | Location 1374 | 4.8 | 3.0 | PHMSA | | Williston |
| | Location 1375 | 5.8 | 3.0 | PHMSA | | Williston |

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|--------------------------------|--------------|-------------------|------------------|-------|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 1376 | 5.8 | 3.0 | PHMSA | | Williston |
| Location 1377 | 5.1 | 3.0 | PHMSA | | Williston |
| Location 1378 Location 1379 | 5.2 5.7 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1379 | 6.0 | 3.0 | PHMSA | | Williston |
| Location 1381 | 6.1 | 3.0 | PHMSA | | Williston |
| Location 1382 | 6.2 | 3.0 | PHMSA | | Williston |
| Location 1383 | 5.6 | 4.0 | VELCO | | Williston |
| Location 1384 | 5.6 | 4.0 | VELCO | | Williston |
| Location 1385 | 5.7 | 4.0 | VELCO | | Williston |
| Location 1386 | 5.7 | 4.0 | VELCO | | Williston |
| Location 1387 | 5.2 | 4.0 | VELCO | | Williston |
| Location 1388 | 5.6 | 4.0 | VELCO | | Williston |
| Location 1389 | 5.5 | 4.0 | VELCO | | Williston |
| Location 1390 | 5.5 | 4.0 | VELCO | | Williston |
| Location 1391 | 8.3 | 4.0 | VELCO | | Williston |
| Location 1392 | 5.9 | 4.0 | VELCO | | Williston |
| Location 1393 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1394 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1395 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1396 | 4.5 | 4.0 | VELCO | | Williston |
| Location 1397 | 5.0 | 4.0 | VELCO | | Williston |
| Location 1398 | 5.4 | 4.0 | VELCO | | Williston |
| Location 1399 | 4.4 | 4.0 | VELCO | | Williston |
| Location 1400 | 4.8 | 4.0 | VELCO | | Williston |
| Location 1401 Location 1402 | 4.8 4.0 | 4.0 | VELCO VELCO | | Williston Williston |
| Location 1402 | 4.6 | 4.0 | VELCO | | Williston |
| Location 1404 | 4.5 | 4.0 | VELCO | | Williston |
| Location 1405 | 4.7 | 4.0 | VELCO | | Williston |
| Location 1406 | 4.7 | 4.0 | VELCO | | Williston |
| Location 1407 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1408 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1409 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1410 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1411 | 4.3 | 4.0 | VELCO | | Williston |
| Location 1412 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1413 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1414 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1415 | 5.3 | 4.0 | VELCO | | Williston |
| Location 1416 | 4.3 | 4.0 | VELCO | | Williston |
| Location 1417 | 5.0 | | VELCO | | Williston |
| Location 1418 | 4.0 | 4.0 | VELCO VELCO | | Williston Williston |
| Location 1419 Location 1420 | 4.2 4.3 | 4.0 | VELCO | | Williston |
| Location 1420 | 4.5 | 4.0 | VELCO | | Williston |
| Location 1422 | 4.6 | 4.0 | VELCO | | Williston |
| Location 1423 | 4.6 | 3.0 | PHMSA | | Williston |
| Location 1424 | 4.1 | 3.0 | PHMSA | | Williston |
| Location 1425 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1426 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1427 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1428 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1429 | 4.1 | 3.0 | PHMSA | | Williston |
| Location 1430 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1431 | 4.0 | | PHMSA | | Williston |
| Location 1432 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1433 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1434 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1435 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1436 | 4.1 | 4.0 | VELCO | | Williston |

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|--------------------------------|--------------|-------------------|-------------------------|----------|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | • | | | |
| Location 1437 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1438 Location 1439 | 4.2 4.4 | 4.0 | VELCO | | Williston Williston |
| Location 1440 | 4.4 | 4.0 | Agriculture Agriculture | | Williston |
| Location 1441 | 4.4 | 4.0 | Agriculture | | Williston |
| Location 1442 | 4.5 | 4.0 | Agriculture | | Williston |
| Location 1443 | 4.3 | | Agriculture | | Williston |
| Location 1444 | 4.0 | 4.0 | Agriculture | | Williston |
| Location 1445 | 5.0 | 4.0 | Agriculture | | Williston |
| Location 1446 | 6.3 | 5.0 | Road Crossing | Route 2A | Williston |
| Location 1447 | 7.7 | 3.0 | PHMSA | | Williston |
| Location 1448 | 7.8 | 3.0 | PHMSA | | Williston |
| Location 1449 | 7.7 | 3.0 | PHMSA | | Williston |
| Location 1450 | 7.3 | 3.0 | PHMSA | | Williston |
| Location 1451 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1452 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1453 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1454 Location 1455 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1455 | 4.5 4.1 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1457 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1458 | 4.7 | 4.0 | VELCO | | Williston |
| Location 1459 | 4.9 | 4.0 | VELCO | | Williston |
| Location 1460 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1461 | 4.2 | 4.0 | VELCO | | Williston |
| Location 1462 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1463 | 4.1 | 3.0 | PHMSA | | Williston |
| Location 1464 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1465 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1466 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1467 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1468 | 5.1 | 3.0 | PHMSA | | Williston |
| Location 1469 | 5.3 | 3.0 | PHMSA | | Williston |
| Location 1470 | 4.8 | 3.0 | PHMSA | | Williston |
| Location 1471 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1472 Location 1473 | 4.7 4.6 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1474 | 4.8 | 3.0 | PHMSA | | Williston |
| Location 1475 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1476 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1477 | 4.8 | | PHMSA | | Williston |
| Location 1478 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1479 | 4.5 | | PHMSA | | Williston |
| Location 1480 | 4.8 | 3.0 | PHMSA | | Williston |
| Location 1481 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1482 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1483 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1484 | 4.1 | 3.0 | PHMSA | | Williston |
| Location 1485 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1486 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1487 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1488 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1489 Location 1490 | 4.8 4.0 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1490 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1491 | 4.2 | | PHMSA | | Williston |
| Location 1493 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1494 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1495 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1496 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1497 | 4.6 | 3.0 | PHMSA | | Williston |
| | | | | | |

| Generic Location Identifier# | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
|------------------------------------|--------------|-------------------|------------------|-------|-----------|
| Location 1498 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1499 | 5.0 | 3.0 | PHMSA | | Williston |

| Generic | | Danis d | | | |
|--------------------------------|--------------|-------------------|------------------|-------|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 1500 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1501 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1502 Location 1503 | 4.2 4.0 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1504 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1505 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1506 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1507 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1508 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1509 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1510 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1511 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1512 | 5.3 | 3.0 | PHMSA | | Williston |
| Location 1513 | 5.6 | 3.0 | PHMSA | | Williston |
| Location 1514 | 5.3 | 3.0 | PHMSA | | Williston |
| Location 1515 | 5.8 | 3.0 | PHMSA | | Williston |
| Location 1516 | 5.9 | 4.0 | VELCO | | Williston |
| Location 1517 | 5.9 5.3 | 4.0 | VELCO | | Williston |
| Location 1518 Location 1519 | 4.1 | 4.0 | VELCO VELCO | | Williston Williston |
| Location 1519 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1521 | 4.9 | 4.0 | VELCO | | Williston |
| Location 1522 | 5.2 | 4.0 | VELCO | | Williston |
| Location 1523 | 4.5 | 4.0 | VELCO | | Williston |
| Location 1524 | 4.8 | 4.0 | VELCO | | Williston |
| Location 1525 | 4.2 | 4.0 | VELCO | | Williston |
| Location 1526 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1527 | 4.3 | 4.0 | VELCO | | Williston |
| Location 1528 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1529 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1530 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1531 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1532 | 5.4 | 4.0 | VELCO | | Williston |
| Location 1533 | 4.4 | 4.0 | VELCO | | Williston |
| Location 1534 | 4.2 | 4.0 | VELCO | | Williston |
| Location 1535 | 4.3 4.2 | 4.0 | VELCO VELCO | | Williston |
| Location 1536 Location 1537 | 4.2 | 4.0 | VELCO | | Williston Williston |
| Location 1538 | 4.2 | 4.0 | VELCO | | Williston |
| Location 1539 | 4.1 | 4.0 | VELCO | | Williston |
| Location 1540 | 4.3 | 4.0 | VELCO | | Williston |
| Location 1541 | 4.1 | | VELCO | | Williston |
| Location 1542 | 4.9 | 4.0 | VELCO | | Williston |
| Location 1543 | 5.3 | 4.0 | VELCO | | Williston |
| Location 1544 | 5.5 | 4.0 | VELCO | | Williston |
| Location 1545 | 5.0 | 4.0 | VELCO | | Williston |
| Location 1546 | 4.9 | 4.0 | VELCO | | Williston |
| Location 1547 | 4.3 | 4.0 | VELCO | | Williston |
| Location 1548 | 4.3 | 4.0 | VELCO | | Williston |
| Location 1549 | 6.0 | | VELCO | | Williston |
| Location 1550 | 6.1 | 4.0 | VELCO | | Williston |
| Location 1551 | 6.9 | 4.0 | VELCO | | Williston |
| Location 1552 | 4.9 | 4.0 | VELCO | | Williston |
| Location 1553 Location 1554 | 4.8 4.7 | | PHMSA PHMSA | | Williston Williston |
| Location 1555 | 5.1 | 3.0 | PHMSA | | Williston |
| Location 1556 | 5.2 | 3.0 | PHMSA | | Williston |
| Location 1557 | 5.1 | 3.0 | PHMSA | | Williston |
| Location 1558 | 5.7 | 3.0 | PHMSA | | Williston |
| Location 1559 | 5.5 | 3.0 | PHMSA | | Williston |
| Location 1560 | 5.5 | 3.0 | PHMSA | | Williston |
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|--------------------------------|--------------|-------------------|-------------------------|--|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 1561 | 5.6 | 3.0 | PHMSA | | Williston |
| Location 1562 Location 1563 | 5.0 4.9 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1564 | 4.9 | 3.0 | PHMSA | | Williston |
| Location 1565 | 5.2 | 3.0 | PHMSA | | Williston |
| Location 1566 | 5.9 | 3.0 | PHMSA | | Williston |
| Location 1567 | 4.0 | 4.0 | VELCO | | Williston |
| Location 1568 | 4.8 | 4.0 | VELCO | | Williston |
| Location 1569 | 6.6 | | Agriculture | | Williston |
| Location 1570 | 6.2 | 4.0 | Agriculture | | Williston |
| Location 1571 | 5.1 | 4.0 | Agriculture | | Williston |
| Location 1572 | 5.9 | 4.0 | Agriculture | | Williston |
| Location 1573 | 6.1 | 4.0 | Agriculture | | Williston |
| Location 1574 | 6.0 | | Agriculture | | Williston |
| Location 1575 | 6.1 | | Agriculture | | Williston |
| Location 1576 | 5.1 | | Agriculture | | Williston |
| Location 1577 | 5.1 | | Agriculture | | Williston |
| Location 1578 | 4.6 | | Agriculture | | Williston |
| Location 1579 Location 1580 | 6.3 6.7 | | Agriculture | | Williston Williston |
| Location 1580 | 7.8 | | Agriculture Agriculture | | Williston |
| Location 1581 | 7.8 | | Agriculture | | Williston |
| Location 1583 | 7.6 | | DEC Stream | Crossing ID #17, 2012-TB-SB-1 (P) (Sucker Brook) | Williston |
| Location 1584 | 9.0 | | DEC Stream | Crossing ID #17, 2012-TB-SB-1 (P) (Sucker Brook) | Williston |
| Location 1585 | 9.4 | | DEC Stream | Crossing ID #17, 2012-TB-SB-1 (P) (Sucker Brook) | Williston |
| Location 1586 | 9.7 | 7.0 | DEC Stream | Crossing ID #17, 2012-TB-SB-1 (P) (Sucker Brook) | Williston |
| Location 1587 | 5.6 | 4.0 | VELCO/Agriculture | <u> </u> | Williston |
| Location 1588 | 5.5 | 4.0 | VELCO/Agriculture | | Williston |
| Location 1589 | 4.5 | 4.0 | VELCO/Agriculture | | Williston |
| Location 1590 | 4.1 | 4.0 | VELCO/Agriculture | | Williston |
| Location 1591 | 4.1 | 4.0 | VELCO/Agriculture | | Williston |
| Location 1592 | 4.3 | 4.0 | VELCO/Agriculture | | Williston |
| Location 1593 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1594 | 4.9 | 3.0 | PHMSA | | Williston |
| Location 1595 Location 1596 | 4.8 4.8 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1597 | 4.3 | | PHMSA | | Williston |
| Location 1598 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1599 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1600 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1601 | 5.4 | 3.0 | PHMSA | | Williston |
| Location 1602 | 4.6 | 3.0 | PHMSA | | Williston |
| Location 1603 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1604 | 5.1 | 3.0 | PHMSA | | Williston |
| Location 1605 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1606 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1607 | 5.1 | | PHMSA | | Williston |
| Location 1608 Location 1609 | 5.1 5.2 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1610 | 4.6 | 3.0 | PHMSA | | Williston |
| Location 1611 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1612 | 4.8 | 3.0 | PHMSA | | Williston |
| Location 1613 | 4.7 | | PHMSA | | Williston |
| Location 1614 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1615 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1616 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1617 | 4.9 | 3.0 | PHMSA | | Williston |
| Location 1618 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1619 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1620 | 4.9 | 3.0 | PHMSA | | Williston |
| Location 1621 | 4.6 | 3.0 | PHMSA | | Williston |

| Generic | | 1 | 1 | I | ſ |
|--------------------------------|--------------|----------|---------------------------------------|---|------------------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | • | Depth | · | | |
| Location 1622 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1623 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1624 | 4.9 | 3.0 | PHMSA | | Williston |
| Location 1625 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1626 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1627 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1628 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1629 Location 1630 | 4.7 5.1 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1630 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1632 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1633 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1634 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1635 | 4.9 | 3.0 | PHMSA | | Williston |
| Location 1636 | 4.0 | 3.0 | PHMSA | | Williston |
| | | | | Lincoln Road - Road Crossing nearby this weld, Pipeline locator indicated a | |
| Location 1637 | 4.0 | 3.0 | PHMSA | depth of 6.0 feet in roadway. 5-foot minimum required under road. | Williston |
| Location 1638 | 5.2 | 3.0 | PHMSA | MLV #2 | Williston |
| Location 1639 | 5.0 | 3.0 | PHMSA | | Williston |
| Location 1640 | 4.1 5.2 | 3.0 | PHMSA PHMSA | | Williston Williston |
| Location 1641 Location 1642 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1643 | 4.7 | 3.0 | PHMSA | | Williston |
| Location 1644 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1645 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1646 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1647 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1648 | 4.4 | 3.0 | PHMSA | | Williston |
| Location 1649 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1650 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1651 | 4.5 | 3.0 | PHMSA | | Williston |
| Location 1652 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1653 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1654 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1655 | 4.2 | 3.0 | PHMSA | | Williston |
| Location 1656 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1657 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1658 | 4.0 | 3.0 | PHMSA | | Williston |
| Location 1659 | 4.0 | 3.0 | PHMSA PHMSA | | Williston |
| Location 1660 | 4.3 | 3.0 | PHMSA | | Williston |
| Location 1661 Location 1662 | 4.1 4.8 | | VTRANS/Agriculture | | Williston Williston |
| Location 1663 | 5.3 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1664 | 5.4 | | VTRANS/Agriculture | | Williston |
| Location 1665 | 4.9 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1666 | 4.3 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1667 | 4.6 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1668 | 5.1 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1669 | 4.4 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1670 | 5.2 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1671 | 4.5 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1672 | 4.4 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1673 | 4.5 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1674 | 4.0 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1675 | 4.1 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1676 | 4.9 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1677 | 5.1 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1678 | 7.3 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1679 | 9.6 | 4.0 | VTRANS/Agriculture | | Williston |
| Location 1680 | 5.8 | 4.0 | VTRANS/Agriculture VTRANS/Agriculture | | Williston |
| Location 1681 | 4.8 | 4.0 | v i naivo/agriculture | | St. George |

| Generic | 1 | ١ | | | 1 |
|--------------------------------|--------------|-------------------|-------------------------|---|--------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | · | | | |
| Location 1682 | 4.5 | 4.0 | Agriculture | | St. George |
| Location 1683 Location 1684 | 4.3 | 4.0 | Agriculture | | St. George |
| Location 1684 | 4.8 4.5 | 4.0 4.0 | Agriculture Agriculture | | St. George St. George |
| Location 1686 | 4.5 | 4.0 | Agriculture | | St. George |
| Location 1687 | 4.6 | 4.0 | Agriculture | | St. George |
| Location 1688 | 4.5 | 4.0 | Agriculture | | St. George |
| Location 1689 | 4.0 | 4.0 | Agriculture | | St. George |
| Location 1690 | 4.6 | 4.0 | Agriculture | | St. George |
| Location 1691 | 5.1 | 4.0 | Agriculture | | St. George |
| Location 1692 | 4.7 | 4.0 | Agriculture | | St. George |
| Location 1693 | 4.1 | 4.0 | Agriculture | | St. George |
| Location 1694 | 4.5 | 4.0 | Agriculture | | St. George |
| Location 1695 | 4.4 | 4.0 | Agriculture | | St. George |
| Location 1696 | 4.0 | 4.0 | Agriculture | | St. George |
| Location 1697 | 4.3 | 4.0 | Agriculture | | St. George |
| Location 1698 | 4.0 | 4.0 | Agriculture | | St. George |
| Location 1699 | 4.3 | 4.0 | Agriculture | | St. George |
| Location 1700 Location 1701 | 4.6 4.4 | 4.0 4.0 | Agriculture Agriculture | | St. George St. George |
| Location 1701 | 4.4 | 4.0 | Agriculture | | St. George |
| Location 1703 | 4.8 | 4.0 | Agriculture | | St. George |
| Location 1703 | 4.0 | 4.0 | Agriculture | | St. George |
| Location 1704 | 7.1 | 4.0 | Agriculture | Breezy Valley Lane - Road Crossing nearby this weld, Pipeline locator indicated a depth of 8.5 feet in roadway. 5-foot minimum required under road. | St. George |
| Location 1705 | 7.7 | 4.0 | Agriculture | | St. George |
| Location 1706 | 4.4 | 4.0 | Agriculture | | St. George |
| Location 1707 | 5.5 | 4.0 | Agriculture | | St. George |
| Location 1708 | 4.9 | 4.0 | Agriculture | | St. George |
| Location 1709 | 5.1 | 4.0 | Agriculture | | St. George |
| Location 1710 | 5.7 | 4.0 | Agriculture | | St. George |
| Location 1711 | 5.6 | 4.0 | Agriculture | | St. George |
| Location 1712 | 5.4 | 4.0 | Agriculture | | St. George |
| Location 1713 | 5.4 | 4.0 | Agriculture | | St. George |
| Location 1714 | 6.6 | 4.0 | Agriculture | | St. George |
| Location 1715 Location 1716 | 6.2 6.1 | 4.0 4.0 | VTRANS VTRANS | | St. George St. George |
| Location 1716 | 5.6 | 4.0 | VTRANS | | St. George |
| Location 1717 | 5.9 | 4.0 | VTRANS | | St. George |
| Location 1719 | 4.9 | 4.0 | VTRANS | | St. George |
| Location 1720 | 4.2 | 4.0 | VTRANS | | St. George |
| Location 1721 | 5.9 | 4.0 | VTRANS | | St. George |
| Location 1722 | 4.2 | 4.0 | VTRANS | | St. George |
| Location 1723 | 4.1 | 3.0 | PHMSA | | St. George |
| Location 1724 | 4.2 | 3.0 | PHMSA | | St. George |
| Location 1725 | 4.3 | 3.0 | PHMSA | | St. George |
| Location 1726 | 4.2 | 3.0 | PHMSA | | St. George |
| Location 1727 | 4.1 | 3.0 | PHMSA | | St. George |
| Location 1728 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1729 | 4.7 | 4.0 | Agriculture | | St. George |
| Location 1730 | 4.1 | 4.0 | Agriculture | | St. George |
| Location 1731 | 4.7 | 4.0 | Agriculture | | St. George |
| Location 1732 | 4.2 | 4.0 | Agriculture | | St. George |
| Location 1733 Location 1734 | 4.1 4.4 | 4.0 4.0 | Agriculture Agriculture | | St. George St. George |
| Location 1734 Location 1735 | 5.1 | 4.0 | Agriculture | | St. George |
| Location 1736 | 5.3 | 4.0 | Agriculture | | St. George |
| Location 1737 | 9.4 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1738 | 6.5 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1739 | 6.3 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1740 | 7.2 | 4.0 | VELCO/Agriculture | | St. George |
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| Town | Generic | | l | | | |
|--|---------------|--------------|-------------------|-------------------|--|-------------|
| Incation 1741 11.9 4.0 Agriculture St. Ceorge Location 1743 11.8 4.0 Agriculture St. Ceorge Location 1743 11.8 4.0 Agriculture St. Ceorge Location 1745 7.9 4.0 Agriculture St. Ceorge Location 1745 4.5 4.0 Agriculture St. Ceorge Location 1745 4.3 4.0 Agriculture St. Ceorge Location 1745 4.3 4.0 Agriculture St. Ceorge Location 1747 4.0 4.0 Agriculture St. Ceorge Location 1747 4.0 4.0 Agriculture St. Ceorge Location 1747 4.0 4.0 Agriculture St. Ceorge Location 1748 4.8 4.0 Agriculture St. Ceorge Location 1749 4.6 4.0 Agriculture St. Ceorge Location 1753 4.1 4.0 Agriculture St. Ceorge Location 1754 4.3 4.0 Agriculture St. Ceorge Location 1754 4.3 4.0 Agriculture St. Ceorge Location 1755 4.1 4.0 Agriculture St. Ceorge Location 1755 4.1 4.0 Agriculture St. Ceorge Location 1756 4.1 4.0 Vit.CO/Agriculture St. Ceorge Location 1757 4.2 4.0 Vit.CO/Agriculture St. Ceorge Location 1757 4.1 4.0 Vit.CO/Agriculture St. Ceorge Location 1757 4.1 4.0 Vit.CO/Agriculture St. Ceorge Location 1757 4.1 4.0 Vit.CO/Agriculture St. | Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Section 1742 12.6 | | 11.0 | 4.0 | Agriculturo | | St. George |
| DECEMBER 1743 11.8 4.0 Agriculture S. C. GOOGRE | | | | | | |
| Section 1744 7-9 4-0 Agriculture S. C. George S. C. | | | | - | | |
| Location 1745 4.5 4.0 Agriculture St. George Location 1747 4.0 4.0 Agriculture St. George Location 1748 4.8 4.0 Agriculture St. George Location 1749 4.6 4.0 Agriculture St. George Location 1749 4.6 4.0 Agriculture St. George Location 1750 4.3 4.0 Agriculture St. George Location 1751 4.0 4.0 Agriculture St. George Location 1751 4.0 4.0 Agriculture St. George Location 1751 4.0 4.0 Agriculture St. George Location 1752 4.2 4.0 Agriculture St. George Location 1753 4.1 4.0 Agriculture St. George Location 1755 4.2 4.0 Agriculture St. George Location 1755 4.3 4.0 Agriculture St. George Location 1756 4.1 4.0 Agriculture St. George Location 1756 4.1 4.0 Agriculture St. George Location 1756 4.1 4.0 Agriculture St. George Location 1757 4.3 4.0 VELCO/Agriculture St. George Location 1756 4.1 4.0 VELCO/Agriculture St. George Location 1756 5.8 4.0 VELCO/Agriculture St. George Location 1757 4.1 4.0 VELCO/Agriculture St. George Location 1758 4.1 4.0 VELCO/Agriculture St. George Locat | | | | | | St. George |
| | | | | • | | St. George |
| | | | | | | St. George |
| DOCATION 1748 4.8 4.0 Agriculture St. George DOCATION 1750 4.3 4.0 Agriculture St. George DOCATION 1750 4.3 4.0 Agriculture St. George DOCATION 1752 4.2 4.0 Agriculture St. George DOCATION 1752 4.2 4.0 Agriculture St. George DOCATION 1752 4.2 4.0 Agriculture St. George DOCATION 1752 4.3 4.0 Agriculture St. George DOCATION 1754 4.3 4.0 Agriculture St. George DOCATION 1754 4.3 4.0 Agriculture St. George DOCATION 1755 4.2 4.0 Agriculture St. George DOCATION 1756 4.1 4.0 VELCO/Agriculture St. George DOCATION 1756 4.3 4.0 VELCO/Agriculture St. George DOCATION 1756 5.8 4.0 VELCO/Agriculture St. George DOCATION 1756 4.1 4.0 VELCO/Agriculture St. George DOCATION 1756 4.1 4.0 VELCO/Agriculture St. George DOCATION 1756 4.1 4.0 VELCO/Agriculture St. George DOCATION 1757 4.1 4.0 VELCO/Agriculture St. | | | | ū | | St. George |
| | | | | Agriculture | | St. George |
| | | | | 0 | | St. George |
| Incention 1753 4.0 4.0 Agriculture St. George | | | 4.0 | | | St. George |
| | | | | Agriculture | | |
| Decision 1755 4.3 | Location 1752 | 4.2 | 4.0 | Agriculture | | St. George |
| Location 1755 4.2 | Location 1753 | 4.1 | 4.0 | Agriculture | | St. George |
| Dicastion 1755 4.2 | Location 1754 | 4.3 | 4.0 | Agriculture | | St. George |
| Deciation 1757 | | 4.2 | 4.0 | Agriculture | | St. George |
| Decision 1758 4.0 | Location 1756 | 4.1 | 4.0 | Agriculture | | |
| Location 1759 5.1 | Location 1757 | 4.3 | 4.0 | VELCO/Agriculture | | |
| Location 1760 | Location 1758 | 4.0 | 4.0 | VELCO/Agriculture | | |
| Location 1765 | Location 1759 | 5.1 | 4.0 | | | |
| Location 1762 4.3 4.0 VELCO/Agriculture St. George | Location 1760 | 4.1 | 4.0 | VELCO/Agriculture | | |
| Location 1765 4.3 | Location 1761 | 4.2 | 4.0 | VELCO/Agriculture | | |
| Location 1764 | Location 1762 | 4.3 | 4.0 | | | |
| Dication 1765 4.3 | Location 1763 | 4.3 | 4.0 | , 0 | | |
| Location 1766 5.8 | Location 1764 | 4.1 | 4.0 | | | |
| Dication 1767 6.1 4.0 VELCO/Agriculture St. George Location 1768 4.5 4.0 VELCO/Agriculture St. George Location 1769 4.0 4.0 VELCO/Agriculture St. George Location 1770 4.3 4.0 VELCO/Agriculture St. George Location 1771 4.3 4.0 VELCO/Agriculture St. George Location 1771 4.3 4.0 VELCO/Agriculture St. George Location 1772 4.1 4.0 VELCO/Agriculture St. George Location 1773 4.0 4.0 VELCO/Agriculture St. George Location 1774 4.0 4.0 VELCO/Agriculture St. George Location 1775 4.1 4.0 VELCO/Agriculture St. George Location 1775 4.2 4.0 VELCO/Agriculture St. George Location 1775 4.2 4.0 VELCO/Agriculture St. George Location 1776 4.0 4.0 VELCO/Agriculture St. George Location 1777 4.1 4.0 VELCO/Agriculture St. George Location 1777 4.1 4.0 VELCO/Agriculture St. George Location 1777 4.1 4.0 VELCO/Agriculture St. George Location 1779 4.5 4.0 VELCO/Agriculture St. George Location 1779 4.5 4.0 VELCO/Agriculture St. George Location 1780 3.5 4.0 VELCO/Agriculture New Drainage ditch constructed over pipe by Landowner after installation, but before final depth measurement. Remediation in process. St. George Location 1782 4.1 4.0 VELCO/Agriculture St. George Location 1783 4.0 4.0 VELCO/Agriculture St. George Location 1784 4.7 4.0 VELCO/Agriculture St. George Location 1785 4.1 4.0 VELCO/Agriculture St. George Location 1786 4.8 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1797 4 | Location 1765 | | 4.0 | | | |
| Location 1768 | Location 1766 | 5.8 | 4.0 | | | |
| Location 1769 4.0 4.0 VELCO/Agriculture St. George | Location 1767 | | | | | |
| Location 1770 | | | | | | |
| Docation 1777 | | | | . 0 | | |
| Location 1772 | | | | | | |
| Location 1773 4.0 4.0 VELCO/Agriculture St. George | | | | . 5 | | |
| Location 1774 | | | | . 5 | | |
| Location 1775 | | | | . 5 | | |
| Location 1776 | | | | . 0 | | |
| Docation 1777 | | | | | | |
| Location 1778 | | | | | | |
| Location 1779 | | | | . 0 | | |
| Location 1780 3.5 4.0 VELCO/Agriculture but before final depth measurement. Remediation in process. Location 1781 4.4 4.0 VELCO/Agriculture St. George Location 1782 4.1 4.0 VELCO/Agriculture St. George Location 1783 4.0 4.0 VELCO/Agriculture Location 1784 4.7 4.0 VELCO/Agriculture Location 1785 5.5 4.0 VELCO/Agriculture Location 1786 4.8 4.0 VELCO/Agriculture Location 1787 4.2 4.0 VELCO/Agriculture Location 1788 4.5 4.0 VELCO/Agriculture Location 1789 4.4 4.0 VELCO/Agriculture Location 1789 4.4 4.0 VELCO/Agriculture Location 1789 4.4 4.0 VELCO/Agriculture Location 1790 4.3 4.0 VELCO/Agriculture Location 1791 4.8 4.0 VELCO/Agriculture Location 1792 4.4 4.0 VELCO/Agriculture Location 1793 4.7 4.0 VELCO/Agriculture Location 1794 6.3 4.0 VELCO/Agriculture Location 1795 4.8 4.0 VELCO/Agriculture Location 1796 4.5 4.0 VELCO/Agriculture Location 1797 4.8 4.0 VELCO/Agriculture Location 1798 4.8 4.0 VELCO/Agriculture Location 1799 5.0 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George Location 1799 5.0 VELCO/Agriculture St. George | | | | . 0 | | |
| Location 1780 3.5 | Location 1779 | 4.5 | 4.0 | VELCO/Agriculture | Now Prainage ditch constructed over pine by Landowner after installation | |
| St. George | Location 1780 | 3.5 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1782 4.1 4.0 VELCO/Agriculture St. George Location 1783 4.0 4.0 VELCO/Agriculture St. George Location 1784 4.7 4.0 VELCO/Agriculture St. George Location 1785 5.5 4.0 VELCO/Agriculture St. George Location 1786 4.8 4.0 VELCO/Agriculture St. George Location 1787 4.2 4.0 VELCO/Agriculture St. George Location 1788 4.5 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location | Location 1781 | 4.4 | 4.0 | VELCO/Agriculture | · | St. George |
| Location 1783 4.0 4.0 VELCO/Agriculture St. George Location 1784 4.7 4.0 VELCO/Agriculture St. George Location 1785 5.5 4.0 VELCO/Agriculture St. George Location 1786 4.8 4.0 VELCO/Agriculture St. George Location 1787 4.2 4.0 VELCO/Agriculture St. George Location 1788 4.5 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location | | | | | | |
| Location 1784 4.7 4.0 VELCO/Agriculture St. George Location 1785 5.5 4.0 VELCO/Agriculture St. George Location 1786 4.8 4.0 VELCO/Agriculture St. George Location 1787 4.2 4.0 VELCO/Agriculture St. George Location 1788 4.5 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location | | | | | | St. George |
| Location 1785 5.5 4.0 VELCO/Agriculture St. George Location 1786 4.8 4.0 VELCO/Agriculture St. George Location 1787 4.2 4.0 VELCO/Agriculture St. George Location 1788 4.5 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location | | | | | | |
| Location 1786 4.8 4.0 VELCO/Agriculture St. George Location 1787 4.2 4.0 VELCO/Agriculture St. George Location 1788 4.5 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | | | | . 0 | | St. George |
| Location 1787 4.2 4.0 VELCO/Agriculture St. George Location 1788 4.5 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | | | | | | |
| Location 1788 4.5 4.0 VELCO/Agriculture St. George Location 1789 4.4 4.0 VELCO/Agriculture St. George Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | | | 4.0 | | | |
| Location 1790 4.3 4.0 VELCO/Agriculture St. George Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | | 4.5 | 4.0 | VELCO/Agriculture | | |
| Location 1791 4.8 4.0 VELCO/Agriculture St. George Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | Location 1789 | 4.4 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1792 4.4 4.0 VELCO/Agriculture St. George Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | Location 1790 | 4.3 | 4.0 | VELCO/Agriculture | | |
| Location 1793 4.7 4.0 VELCO/Agriculture St. George Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | Location 1791 | 4.8 | 4.0 | VELCO/Agriculture | | |
| Location 1794 6.3 4.0 VELCO/Agriculture St. George Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | Location 1792 | 4.4 | 4.0 | VELCO/Agriculture | | |
| Location 1795 4.8 4.0 VELCO/Agriculture St. George Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | Location 1793 | 4.7 | 4.0 | VELCO/Agriculture | | |
| Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | Location 1794 | 6.3 | 4.0 | | | |
| Location 1796 4.5 4.0 VELCO/Agriculture St. George Location 1797 4.8 4.0 VELCO/Agriculture St. George Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | | | 4.0 | | | |
| Location 1798 4.7 4.0 VELCO/Agriculture St. George Location 1799 5.0 4.0 VELCO/Agriculture St. George | | | 4.0 | VELCO/Agriculture | | |
| Location 1799 5.0 4.0 VELCO/Agriculture St. George | Location 1797 | 4.8 | 4.0 | | | |
| 2000000017735 | Location 1798 | 4.7 | 4.0 | VELCO/Agriculture | | |
| Location 1800 4.3 4.0 VELCO/Agriculture St. George | Location 1799 | 5.0 | 4.0 | | | |
| | Location 1800 | 4.3 | 4.0 | VELCO/Agriculture | | St. George |

| Generic Location | Actual Depth | Required | Reason for Depth | Notes | Town |
|--------------------------------|--------------|------------|-------------------|-------|--------------------------|
| Identifier # | Actual Depth | Depth | neason ioi zopiii | | |
| Location 1801 | 4.3 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1802 | 4.4 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1803 | 4.4 | 4.0 | VELCO/Agriculture | | St. George |
| Location 1804 | 4.9 | | VELCO/Agriculture | | St. George |
| Location 1805 | 4.4 | | PHMSA | | St. George |
| Location 1806 | 5.0 | | PHMSA | | St. George |
| Location 1807 | 4.2 | | PHMSA | | St. George |
| Location 1808 | 4.1 | 3.0 | PHMSA | | St. George St. George |
| Location 1809 | 4.2 | 3.0 | PHMSA | | St. George |
| Location 1810 | 4.2 | 3.0 | PHMSA | | St. George |
| Location 1811 | 4.0 | 3.0 | PHMSA | | St. George |
| Location 1812 | 4.1 | 3.0 | PHMSA PHMSA | | St. George |
| Location 1813 | 4.0 | 3.0 | PHMSA | | St. George |
| Location 1814 Location 1815 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1816 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1817 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1818 | 5.0 | 3.0 | PHMSA | | St. George |
| Location 1819 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1820 | 4.4 | 3.0 | PHMSA | | St. George |
| Location 1821 | 4.2 | 3.0 | PHMSA | | St. George |
| Location 1822 | 4.8 | 3.0 | PHMSA | | St. George |
| Location 1823 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1824 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1825 | 5.6 | 3.0 | PHMSA | | St. George |
| Location 1826 | 6.3 | 3.0 | PHMSA | | St. George |
| Location 1827 | 4.7 | 3.0 | PHMSA | | St. George |
| Location 1828 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1829 | 4.4 | 3.0 | PHMSA | | St. George |
| Location 1830 | 4.8 | 3.0 | PHMSA | | St. George |
| Location 1831 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1832 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1833 | 5.1 | 3.0 | PHMSA | | St. George |
| Location 1834 | 4.0 | 3.0 | PHMSA | | St. George St. George |
| Location 1835 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1836 | 5.0 | 3.0 | PHMSA | | St. George |
| Location 1837 | 5.7 | 3.0 4.0 | PHMSA VELCO | | St. George |
| Location 1838 Location 1839 | 5.0 4.2 | 4.0 | VELCO | | St. George |
| Location 1840 | 4.2 | 4.0 | VELCO | | St. George |
| Location 1841 | 4.3 | 4.0 | VELCO | | St. George |
| Location 1842 | 4.8 | 3.0 | PHMSA | | St. George |
| Location 1843 | 4.1 | 3.0 | PHMSA | | St. George |
| Location 1844 | 4.4 | 3.0 | PHMSA | | St. George |
| Location 1845 | 4.0 | 3.0 | PHMSA | | St. George |
| Location 1846 | 4.1 | 3.0 | PHMSA | | St. George |
| Location 1847 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1848 | 4.9 | 3.0 | PHMSA | | St. George |
| Location 1849 | 6.1 | 3.0 | PHMSA | | St. George |
| Location 1850 | | 3.0 | PHMSA | | St. George |
| Location 1851 | 4.8 | 3.0 | PHMSA | | St. George |
| Location 1852 | | 3.0 | PHMSA | | St. George |
| Location 1853 | 4.0 | 3.0 | PHMSA | | St. George |
| Location 1854 | | 3.0 | PHMSA | | St. George St. George |
| Location 1855 | | 3.0 | PHMSA | | St. George |
| Location 1856 | | 3.0 | PHMSA | | St. George |
| Location 1857 | | 3.0 | PHMSA | | St. George |
| Location 1858 | | 3.0 4.0 | PHMSA VELCO | | St. George |
| Location 1859 Location 1860 | | 4.0 | VELCO | | St. George |
| Location 1860 | 4.6 | 4.0 | VELCO | | St. George |
| FOCUTION 1901 | 4.0 | 1 4.0 | 1.2200 | | 1 0- |

| Generic | l | Required | | | |
|--------------------------------|--------------|------------|-------------------------|--|--------------------------|
| Location | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Identifier # Location 1862 | 4.5 | 4.0 | VELCO | | St Coorgo |
| Location 1863 | 4.5 | 4.0 | VELCO | | St. George St. George |
| Location 1864 | 5.2 | 4.0 | VELCO | | St. George |
| Location 1865 | 6.0 | 4.0 | VELCO | | St. George |
| Location 1866 | 5.0 | 4.0 | VELCO | | St. George |
| Location 1867 | 5.3 | 4.0 | VELCO | | St. George |
| Location 1868 | 7.1 | 4.0 | VELCO | | St. George |
| Location 1869 | 7.4 | 4.0 | VELCO | | St. George |
| Location 1870 | 9.0 | 4.0 | VTRANS | | St. George |
| Location 1871 | 8.7 | 4.0 | VTRANS | | St. George |
| Location 1872 | 4.5 | 4.0 | VTRANS | | St. George |
| Location 1873 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | St. George |
| Location 1874 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | St. George |
| Location 1875 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | St. George |
| Location 1876 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | St. George |
| Location 1877 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | St. George |
| Location 1878 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | St. George |
| Location 1879 | HDD | 4.0 | VTRANS | Estimated location for Depth from HDD profile (8.0 feet). | St. George |
| Location 1880 | HDD | 4.0 | VTRANS | Based on HDD Profile, minimum depth is at least 4.0 feet. | St. George |
| Location 1881 | 5.0 | 4.0 | VTRANS | | St. George |
| Location 1882 | 4.2 | 4.0 | VTRANS | | St. George |
| Location 1883 | 4.1 | 4.0 | VTRANS | | St. George |
| Location 1884 | 4.5 | 4.0 | VTRANS | | St. George |
| Location 1885 | 6.1 | 4.0 | VTRANS | | St. George |
| Location 1886 | 5.5 | 4.0 | VTRANS | | St. George |
| Location 1887 | 5.1 | 4.0 | VTRANS | | St. George |
| Location 1888 | 5.1 | 4.0 | VTRANS | | St. George |
| Location 1889 | 5.8 | 4.0 | VTRANS | | St. George |
| Location 1890 | 5.6 | 4.0 | VTRANS | | St. George |
| Location 1891 | 5.0 | 4.0 | VTRANS | | St. George |
| Location 1892 | 4.3 | 4.0 | VTRANS | | St. George |
| Location 1893 | 4.6 | 4.0 | VTRANS | | St. George |
| Location 1894 | 4.7 | 4.0 | VTRANS | | St. George |
| Location 1895 | 4.9 | 4.0 | VTRANS | | St. George |
| Location 1896 | 4.1 | 4.0 | VTRANS | | St. George |
| Location 1897 | 4.1 | 4.0 | VTRANS | | St. George |
| Location 1898 | 4.0 | 4.0 | VTRANS | | St. George |
| Location 1899 | 4.0 | 4.0 | VTRANS | | St. George |
| Location 1900 | 4.1 | 4.0 | VTRANS | | St. George |
| Location 1901 | 4.2 | 4.0 | VTRANS | | St. George |
| Location 1902 | 4.2 | | VTRANS | | St. George |
| Location 1903 | 5.2 | 4.0 | VTRANS | | St. George |
| Location 1904 | 6.1 | 4.0 | VTRANS | | St. George |
| Location 1905 | 5.8 | 4.0 | VTRANS Road Crossing | Pouto 2A Displing locator indicated a death of 6 4 feet in read | St. George |
| Location 1906 | ROADBORE | 5.0 4.0 | | Route 2A, Pipeline locator indicated a depth of 6.4 feet in roadway. | St. George |
| Location 1907 | 5.4 | 4.0 | Agriculture | | St. George |
| Location 1908 Location 1909 | 5.6 5.8 | 4.0 | Agriculture Agriculture | | St. George St. George |
| Location 1909 | 6.2 | 4.0 | Agriculture | | St. George |
| Location 1910 | 5.4 | | Agriculture | | St. George |
| Location 1911 Location 1912 | 4.9 | | Agriculture | | St. George |
| Location 1913 | 4.9 | 4.0 | Agriculture | | St. George |
| Location 1914 | 5.2 | | Agriculture | | St. George |
| Location 1915 | 4.9 | 4.0 | Agriculture | | St. George |
| Location 1916 | 4.9 | | Agriculture | | St. George |
| Location 1917 | 6.8 | | Agriculture | | St. George |
| Location 1918 | 7.0 | 4.0 | Agriculture | | St. George |
| Location 1919 | 6.7 | 4.0 | Agriculture | | St. George |
| Location 1920 | 8.9 | 5.0 | Road Crossing | Route 116 (Hinesburg Road) | St. George |
| Location 1921 | 7.0 | 3.0 | PHMSA | | St. George |
| Location 1922 | 7.4 | 3.0 | PHMSA | | St. George |
| | | | • | • | _ |

| Generic | | L | | | 1 |
|--------------------------------|--------------|-------------------|---|------------------------------------|--------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | 4 |
| Location 1923 | 6.9 | 3.0 | PHMSA | | St. George |
| Location 1924 | 5.3 | 3.0 | PHMSA PHMSA | | St. George |
| Location 1925 Location 1926 | 5.7 4.6 | 3.0 | PHMSA | | St. George St. George |
| Location 1927 | 4.0 | 3.0 | PHMSA | | St. George |
| Location 1928 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1929 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1930 | 4.5 | 3.0 | PHMSA | | St. George |
| Location 1931 | 4.4 | 3.0 | PHMSA | | St. George |
| Location 1932 | 4.4 | 3.0 | PHMSA | | St. George |
| Location 1933 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1934 | 4.1 | 3.0 | PHMSA | | St. George |
| Location 1935 | 4.9 | 3.0 | PHMSA | | St. George |
| Location 1936 | 5.1 | 3.0 | PHMSA | | St. George |
| Location 1937 | 4.4 | 3.0 | PHMSA | | St. George |
| Location 1938 | 4.6 | 3.0 | PHMSA | | St. George |
| Location 1939 | 6.6 | 4.0 | VELCO | | St. George |
| Location 1940 | 6.3 | 4.0 | VELCO | | St. George |
| Location 1941 Location 1942 | 5.8 4.2 | 4.0 3.0 | PHMSA | | St. George St. George |
| Location 1942 | 4.2 | 3.0 | PHMSA | | St. George |
| Location 1944 | 4.0 | 3.0 | PHMSA | | St. George |
| Location 1945 | 5.6 | 3.0 | PHMSA | | St. George |
| Location 1946 | 5.6 | 3.0 | PHMSA | | St. George |
| Location 1947 | 5.2 | 3.0 | PHMSA | | St. George |
| Location 1948 | 5.2 | 3.0 | PHMSA | | St. George |
| Location 1949 | 4.9 | 3.0 | PHMSA | | St. George |
| Location 1950 | 8.3 | 3.0 | PHMSA | Crossing ID #19, 2012-SC-PW-42 (P) | St. George |
| Location 1951 | 8.3 | 3.0 | PHMSA | Crossing ID #19, 2012-SC-PW-42 (P) | St. George |
| Location 1952 | 8.1 | 3.0 | PHMSA | Crossing ID #19, 2012-SC-PW-42 (P) | St. George |
| Location 1953 | 5.0 | 3.0 | PHMSA | | St. George |
| Location 1954 | 5.5 | 3.0 | PHMSA | | St. George |
| Location 1955 | 5.0 | 3.0 | PHMSA | | St. George |
| Location 1956 | 5.4 | 3.0 | PHMSA | | St. George |
| Location 1957 | 5.1 | 3.0 | PHMSA | | St. George |
| Location 1958 | 4.7 | 3.0 | PHMSA | | St. George |
| Location 1959 | 4.4 | 3.0 | PHMSA | | St. George |
| Location 1960 Location 1961 | 4.6 4.6 | 3.0 | PHMSA PHMSA | | St. George St. George |
| Location 1962 | 5.4 | 3.0 | PHMSA | | St. George |
| Location 1963 | 5.1 | 3.0 | PHMSA | | Hinesburg |
| Location 1964 | 4.9 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1965 | 4.2 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1966 | 4.8 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1967 | 4.9 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1968 | 4.1 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1969 | 4.2 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1970 | 4.4 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1971 | 4.1 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1972 | 4.2 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1973 | 4.6 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1974 | 4.3 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1975 | 4.0 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1976 | 4.3 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1977 | 4.3 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1978 | 4.7 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1979 Location 1980 | 4.1 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | Hinesburg |
| Location 1980 Location 1981 | 4.3 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 1982 | 4.2 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1983 | 4.0 | 4.0 | Agriculture/Landowner | | Hinesburg |
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| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | | |
| Location 1984 | 4.1 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1985 | 4.0 | | Agriculture/Landowner | | Hinesburg |
| Location 1986 | 5.3 5.7 | | Agriculture/Landowner | | Hinesburg |
| Location 1987 Location 1988 | 5.7 | | Agriculture/Landowner Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 1989 | 5.5 | | Agriculture/Landowner | | Hinesburg |
| Location 1990 | 5.4 | | Agriculture/Landowner | | Hinesburg |
| Location 1991 | 5.0 | | Agriculture/Landowner | | Hinesburg |
| Location 1992 | 4.0 | | Agriculture/Landowner | | Hinesburg |
| Location 1993 | 4.4 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1994 | 4.3 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 1995 | 4.9 | 4.0 | Agriculture | | Hinesburg |
| Location 1996 | 5.0 | 4.0 | Agriculture | | Hinesburg |
| Location 1997 | 5.0 | | Agriculture | | Hinesburg |
| Location 1998 | 5.2 | | VELCO/Agriculture | | Hinesburg |
| Location 1999 | 5.2 | | VELCO/Agriculture | | Hinesburg |
| Location 2000 | 4.5 | | VELCO/Agriculture | | Hinesburg |
| Location 2001 | 4.5 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2002 | 5.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2003 Location 2004 | 4.5 4.3 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | Hinesburg Hinesburg |
| Location 2004 | 4.3 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2006 | 4.4 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2007 | 4.7 | | VELCO/Agriculture | | Hinesburg |
| Location 2008 | 4.4 | | VELCO/Agriculture | | Hinesburg |
| Location 2009 | 4.1 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2010 | 4.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2011 | 4.1 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2012 | 4.6 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2013 | 4.0 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2014 | 4.0 | | VELCO/Agriculture | | Hinesburg |
| Location 2015 | 4.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2016 | 4.3 | | VELCO/Agriculture | | Hinesburg |
| Location 2017 | 4.6 | | VELCO/Agriculture | | Hinesburg |
| Location 2018 Location 2019 | 4.3 4.1 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2019 | 4.1 | | VELCO/Agriculture VELCO/Agriculture | | Hinesburg Hinesburg |
| Location 2021 | 4.3 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2022 | 4.4 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2023 | 4.2 | | VELCO/Agriculture | | Hinesburg |
| Location 2024 | 5.2 | | VELCO/Agriculture | | Hinesburg |
| Location 2025 | 4.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2026 | 4.0 | | VELCO/Agriculture | | Hinesburg |
| Location 2027 | 4.0 | | VELCO/Agriculture | | Hinesburg |
| Location 2028 | 4.0 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2029 | 6.4 | 3.0 | PHMSA | | Hinesburg |
| Location 2030 | 6.5 | | PHMSA | | Hinesburg |
| Location 2031 | 6.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2032 | 5.2 | 3.0 | PHMSA PHMSA | | Hinesburg |
| Location 2033 Location 2034 | 5.1 4.8 | 3.0 | PHMSA | | Hinesburg |
| Location 2034 | 4.8 | 3.0 | PHMSA | | Hinesburg Hinesburg |
| Location 2036 | 4.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2037 | 4.4 | 3.0 | PHMSA | | Hinesburg |
| Location 2038 | 5.2 | 3.0 | PHMSA | | Hinesburg |
| Location 2039 | 7.8 | 3.0 | PHMSA | Hickory Place - Road Crossing nearby this weld, Pipeline locator indicated a depth of 7.3 feet in roadway. 5-foot minimum required under road. | Hinesburg |
| Location 2040 | 5.6 | 3.0 | PHMSA | | Hinesburg |
| Location 2041 | 4.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2042 | 4.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2043 | 4.3 | 3.0 | PHMSA | | Hinesburg |

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|--------------------------------|--------------|-------------------|-------------------------|--|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | 4.0 | | DUNACA | | I.P b |
| Location 2044 Location 2045 | 4.0 4.1 | 3.0 | PHMSA PHMSA | | Hinesburg |
| Location 2046 | 4.1 | 3.0 | PHMSA | | Hinesburg Hinesburg |
| Location 2047 | 4.5 | 3.0 | PHMSA | | Hinesburg |
| Location 2048 | 5.2 | 3.0 | PHMSA | | Hinesburg |
| Location 2049 | 4.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2050 | 5.1 | 3.0 | PHMSA | | Hinesburg |
| Location 2051 | 4.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2052 | 4.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2053 | 5.2 | 3.0 | PHMSA | | Hinesburg |
| Location 2054 | 6.2 | 3.0 | PHMSA | | Hinesburg |
| Location 2055 | 5.3 | 3.0 | PHMSA | | Hinesburg |
| Location 2056 | 4.0 | 3.0 | PHMSA | | Hinesburg |
| Location 2057 | 4.3 | 4.0 | Agriculture | | Hinesburg |
| Location 2058 Location 2059 | 7.5 7.1 | 4.0 | Agriculture Agriculture | | Hinesburg Hinesburg |
| Location 2060 | 6.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2061 | 6.2 | 4.0 | Agriculture | | Hinesburg |
| Location 2062 | 5.8 | 4.0 | Agriculture | | Hinesburg |
| Location 2063 | 4.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2064 | 6.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2065 | 5.8 | 4.0 | Agriculture | | Hinesburg |
| Location 2066 | 8.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2067 | 6.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2068 | 4.9 | 4.0 | Agriculture | | Hinesburg |
| Location 2069 | 5.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2070 | 4.5 | 4.0 | Agriculture | | Hinesburg |
| Location 2071 | 4.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2072 | 4.2 | 4.0 | Agriculture | | Hinesburg |
| Location 2073 | 4.2 | 4.0 | Agriculture | | Hinesburg |
| Location 2074 Location 2075 | 4.2 4.0 | 4.0 | Agriculture Agriculture | | Hinesburg Hinesburg |
| Location 2076 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2077 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2078 | 4.3 | 4.0 | Agriculture | | Hinesburg |
| Location 2079 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2080 | 4.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2081 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2082 | 4.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2083 | 4.3 | 4.0 | Agriculture | | Hinesburg |
| Location 2084 | 4.0 | | Agriculture | | Hinesburg |
| Location 2085 | 4.3 | | Agriculture | | Hinesburg |
| Location 2086 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2087 | 4.6 | 4.0 | Agriculture | | Hinesburg |
| Location 2088 Location 2089 | 4.1 4.6 | 4.0 | Agriculture | | Hinesburg |
| Location 2089 | 4.6 | 4.0 | Agriculture Agriculture | | Hinesburg Hinesburg |
| Location 2091 | 5.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2092 | 5.3 | 4.0 | Agriculture | | Hinesburg |
| Location 2093 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2094 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2095 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2096 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2097 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2098 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2099 | HDD | | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2100 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2101 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2102 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2103 | HDD | | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2104 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |

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|--------------------------------|--------------|-------------------|---|---|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 2105 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2106 Location 2107 | HDD HDD | 30.0 30.0 | Geprags Park Property Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2107 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg Hinesburg |
| Location 2109 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2110 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2111 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2112 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2113 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2114 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2115 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2116 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2117 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2118 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2119 | HDD | | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2120 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2121 Location 2122 | HDD HDD | 30.0 30.0 | Geprags Park Property Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg Hinesburg |
| Location 2123 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2124 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2125 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2126 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2127 | HDD | | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2128 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2129 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2130 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2131 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2132 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2133 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2134 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2135 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2136 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2137 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2138 | HDD | 30.0 | Geprags Park Property | Crossing ID #20, 2012-SC-JB-10 (P), FEH Stream Crossing, Geprags depth requirement is greater. Estimated location for Depth from HDD Profile (38.0 feet). | Hinesburg |
| Location 2139 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2140 | HDD | 30.0 | Geprags Park Property | Based on HDD Profile, minimum depth is at least 30.0 feet. | Hinesburg |
| Location 2141 | HDD | 5.0 | Road Crossing | Shelburne Falls Road, Estimated location for Depth from HDD Profile (32.0 feet). | Hinesburg |
| Location 2142 | HDD | | Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2143 | HDD | | Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2144 | HDD | 4.0 | Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2145 | HDD | 4.0 | Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2146 Location 2147 | 6.6 | 4.0 | Landowner Landowner | | Hinesburg Hinesburg |
| Location 2148 | 4.9 | 4.0 | Landowner | | Hinesburg |
| Location 2149 | 5.2 | 4.0 | Landowner | | Hinesburg |
| Location 2150 | 5.1 | 4.0 | Landowner | | Hinesburg |
| Location 2151 | 4.8 | 4.0 | Landowner | | Hinesburg |
| Location 2152 | 4.8 | 4.0 | Landowner | | Hinesburg |
| Location 2153 | 5.1 | 4.0 | Landowner | | Hinesburg |
| Location 2154 | 4.7 | 4.0 | Landowner | | Hinesburg |
| Location 2155 | 4.6 | 4.0 | Landowner | | Hinesburg |
| Location 2156 | 4.4 | 4.0 | Landowner | | Hinesburg |
| Location 2157 | 4.8 | 4.0 | Landowner | | Hinesburg |
| Location 2158 | 4.6 | 4.0 | Landowner | | Hinesburg |
| Location 2159 | 5.5 | 4.0 | Landowner | | Hinesburg |
| Location 2160 | 5.3 | 4.0 | Landowner | | Hinesburg |
| Location 2161 | 4.7 | 4.0 | Landowner | | Hinesburg |
| Location 2162 | 4.5 | 4.0 | Landowner | | Hinesburg |

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| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | Бериі | | | |
| Location 2163 | 4.6 | 4.0 | Landowner | | Hinesburg |
| Location 2164 | 5.1 | 4.0 | Landowner | | Hinesburg |
| Location 2165 | 5.1 | 4.0 | Landowner | | Hinesburg |
| Location 2166 Location 2167 | 5.0 | 4.0 | Landowner | | Hinesburg |
| Location 2168 | 4.9 5.0 | 4.0 | Landowner Landowner | | Hinesburg |
| Location 2169 | 5.1 | 4.0 | Landowner | | Hinesburg Hinesburg |
| Location 2170 | 5.2 | 4.0 | Landowner | | Hinesburg |
| Location 2171 | 5.2 | 4.0 | Landowner | | Hinesburg |
| Location 2172 | 4.8 | 4.0 | Landowner | | Hinesburg |
| Location 2173 | 4.7 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2174 | 4.7 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2175 | 4.2 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2176 | 4.5 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2177 | 4.5 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2178 | 4.6 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2179 | 5.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2180 | 4.8 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2181 | 4.4 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2182 | 4.0 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2183 | 4.1 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2184 | 4.4 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2185 | 4.8 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2186 | 4.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2187 Location 2188 | 4.5 4.1 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | Hinesburg |
| Location 2189 | 5.5 | 4.0 | VELCO/Agriculture | | Hinesburg Hinesburg |
| Location 2190 | 6.0 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2191 | 5.6 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2192 | 4.8 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2193 | 4.5 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2194 | 4.7 | | Agriculture/Landowner | | Hinesburg |
| Location 2195 | 4.7 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2196 | 4.1 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2197 | 5.1 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2198 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2199 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2200 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2201 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2202 | HDD | 7.0 | DEC Stream | Crossing ID #21, 2012-TB-LPR-1 (P) (LaPlatte River), Estimated location for | Hinesburg |
| | | | | Depth from HDD Profile (25.0 feet). | |
| Location 2203 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2204 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2205 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2206 Location 2207 | HDD HDD | 4.0 | Agriculture/Landowner Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg Hinesburg |
| Location 2207 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2209 | 5.4 | | Agriculture/Landowner | passes on 1155 Frome, minimum departs defease the feet. | Hinesburg |
| Location 2210 | 4.4 | | Agriculture/Landowner | | Hinesburg |
| Location 2211 | 4.4 | | Agriculture/Landowner | | Hinesburg |
| Location 2212 | 4.0 | | Agriculture/Landowner | | Hinesburg |
| Location 2213 | 4.9 | | Agriculture/Landowner | | Hinesburg |
| Location 2214 | 4.5 | | Agriculture/Landowner | | Hinesburg |
| Location 2215 | 4.4 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2216 | 4.7 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2217 | 4.8 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2218 | 4.5 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2219 | 4.0 | | Agriculture/Landowner | | Hinesburg |
| Location 2220 | 4.3 | | Agriculture/Landowner | | Hinesburg |
| Location 2221 | 4.1 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2222 | 4.2 | 4.0 | Agriculture/Landowner | | Hinesburg |

| Generic | | Danwinad | | | |
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| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | <u> </u> |
| Location 2223 | 4.5 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2224 | 4.6 | | Agriculture/Landowner | | Hinesburg |
| Location 2225 Location 2226 | 4.0 | | Agriculture/Landowner Agriculture/Landowner | | Hinesburg |
| Location 2227 | 4.3 | | VELCO/Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 2228 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2229 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2230 | 4.2 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2231 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2232 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2233 | 4.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2234 | 4.6 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2235 | 4.3 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2236 | 4.8 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2237 | 4.5 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2238 | 4.5 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2239 | 4.3 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2240 | 4.1 | | Agriculture/Landowner | | Hinesburg |
| Location 2241 | 4.7 | | Agriculture/Landowner | | Hinesburg |
| Location 2242 | 5.4 | | Agriculture/Landowner | | Hinesburg |
| Location 2243 | 7.5 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2244 | 6.2 | | Agriculture/Landowner | Charlotte Road - Road Crossing nearby this weld, Pipeline locator indicated a depth of 8.4 feet in roadway. 5-foot minimum required under road. | Hinesburg |
| Location 2245 | 6.4 | | Agriculture | | Hinesburg |
| Location 2246 | 6.1 | | Agriculture | | Hinesburg |
| Location 2247 | 5.7 | | Agriculture | | Hinesburg |
| Location 2248 | 5.0 | | Agriculture | | Hinesburg |
| Location 2249 | 4.7 | | Agriculture | | Hinesburg |
| Location 2250 | 4.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2251 | 4.0 4.2 | | Agriculture | | Hinesburg |
| Location 2252 Location 2253 | 4.2 | | Agriculture Agriculture | | Hinesburg Hinesburg |
| Location 2254 | 5.9 | | Agriculture | | Hinesburg |
| Location 2255 | 6.8 | | Agriculture | | Hinesburg |
| Location 2256 | 6.2 | | Agriculture | | Hinesburg |
| Location 2257 | 6.2 | | Agriculture | | Hinesburg |
| Location 2258 | 5.6 | | Agriculture | | Hinesburg |
| Location 2259 | 7.0 | | Agriculture | | Hinesburg |
| Location 2260 | 6.6 | 4.0 | Agriculture | | Hinesburg |
| Location 2261 | 5.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2262 | 5.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2263 | 6.6 | | Agriculture | | Hinesburg |
| Location 2264 | 5.9 | | Agriculture | | Hinesburg |
| Location 2265 | 6.2 | | Agriculture | | Hinesburg |
| Location 2266 | 7.0 | | Agriculture | | Hinesburg |
| Location 2267 | 4.4 | | Agriculture | | Hinesburg |
| Location 2268 | 4.6 | | Agriculture | | Hinesburg |
| Location 2269 | 4.8 | | Agriculture | | Hinesburg |
| Location 2270 Location 2271 | 4.9 4.1 | | Agriculture Agriculture | | Hinesburg Hinesburg |
| Location 2271 | 4.1 | | Agriculture | | Hinesburg |
| Location 2273 | 4.1 | | Agriculture | | Hinesburg |
| Location 2274 | 4.2 | | Agriculture | | Hinesburg |
| Location 2275 | 4.5 | | Agriculture | | Hinesburg |
| Location 2276 | 4.0 | | Agriculture | | Hinesburg |
| Location 2277 | 4.0 | | Agriculture | | Hinesburg |
| Location 2278 | 4.6 | | Agriculture | | Hinesburg |
| Location 2279 | 4.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2280 | 4.2 | 4.0 | Agriculture | | Hinesburg |
| Location 2281 | 4.5 | 4.0 | Agriculture | | Hinesburg |
| Location 2282 | 4.2 | 4.0 | Agriculture | | Hinesburg |

| Generic | | 1 | 1 | I | |
|--------------------------------|--------------|----------|-------------------------|--|------------------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier# | | Depth | | | |
| Location 2283 | 4.6 | 4.0 | Agriculture | | Hinesburg |
| Location 2284 | 4.5 | 4.0 | Agriculture | | Hinesburg |
| Location 2285 | 4.6 | 4.0 | Agriculture | | Hinesburg |
| Location 2286 | 4.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2287 | 4.7 | 4.0 | Agriculture | | Hinesburg |
| Location 2288 | 4.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2289 | 4.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2290 | 4.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2291 | 4.5 | 4.0 | Agriculture | | Hinesburg |
| Location 2292 | 4.7 | 4.0 | Agriculture | | Hinesburg |
| Location 2293 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2294 | 4.3 | 4.0 | Agriculture | | Hinesburg |
| Location 2295 | 4.3 | 4.0 | Agriculture | | Hinesburg |
| Location 2296 | 4.5 | 4.0 | Agriculture | | Hinesburg |
| Location 2297 | 5.6 | 4.0 | Agriculture | | Hinesburg |
| Location 2298 | 5.4 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2299 | 4.7 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2300 | 4.5 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2301 | 4.2 | 4.0 | VELCO/Agriculture | 0 1 10 11400 0047 00 4 (0) (7 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Hinesburg |
| Location 2302 | 8.8 | 7.0 | DEC Stream | Crossing ID #123, 2015-SC-1 (P) (Tributary to LaPlatte River, previously 2012-AS-CM-3) | Hinesburg |
| Location 2303 | 9.1 | 7.0 | DEC Stream | Crossing ID #123, 2015-SC-1 (P) (Tributary to LaPlatte River, previously 2012-AS-CM-3) | Hinesburg |
| Location 2304 | 9.4 | 7.0 | DEC Stream | Crossing ID #123, 2015-SC-1 (P) (Tributary to LaPlatte River, previously 2012-AS-CM-3) | Hinesburg |
| Location 2305 | 9.7 | 7.0 | DEC Stream | Crossing ID #123, 2015-SC-1 (P) (Tributary to LaPlatte River, previously 2012-AS-CM-3) | Hinesburg |
| Location 2306 | 6.9 | 4.0 | Agriculture | · | Hinesburg |
| Location 2307 | 6.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2308 | 5.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2309 | 4.9 | 4.0 | Agriculture | | Hinesburg |
| Location 2310 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2311 | 4.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2312 | 4.2 | 4.0 | Agriculture | | Hinesburg |
| Location 2313 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2314 | 4.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2315 | 4.9 | 4.0 | Agriculture | | Hinesburg |
| Location 2316 | 5.0 | | Agriculture | | Hinesburg |
| Location 2317 | 5.3 | 4.0 | Agriculture | | Hinesburg |
| Location 2318 | 4.7 | | Agriculture | | Hinesburg |
| Location 2319 | 4.6 | | Agriculture | | Hinesburg |
| Location 2320 | 4.9 | | Agriculture | | Hinesburg |
| Location 2321 | 5.1 | | Agriculture | | Hinesburg |
| Location 2322 | 7.8 | | Agriculture | | Hinesburg |
| Location 2323 | 7.2 | | Agriculture | | Hinesburg |
| Location 2324 | 5.7 | 4.0 | Agriculture | | Hinesburg |
| Location 2325 | 5.2 | | Agriculture | | Hinesburg |
| Location 2326 | 5.0 | | Agriculture | | Hinesburg |
| Location 2327 | 4.2 | | Agriculture | | Hinesburg |
| Location 2328 | 4.3 | | Agriculture | | Hinesburg |
| Location 2329 | 4.7 | | Agriculture | | Hinesburg |
| Location 2330 | 4.7 | | Agriculture | | Hinesburg |
| Location 2331 | 4.7 | | Agriculture | | Hinesburg |
| Location 2332 | 4.8 | | Agriculture | | Hinesburg |
| Location 2333 | 4.8 4.7 | | Agriculture | | Hinesburg |
| Location 2334 Location 2335 | 5.0 | | Agriculture Agriculture | | Hinesburg Hinesburg |
| Location 2336 | 4.0 | | Agriculture | | Hinesburg |
| Location 2337 | 4.0 | 4.0 | Agriculture | | Hinesburg |
| Location 2338 | 4.0 | | Agriculture | | Hinesburg |
| Location 2339 | 4.1 | | Agriculture | | Hinesburg |
| 20000011 2333 | 1.1 | | .DSuitui C | I . | 1 |

| Generic | | | | | |
|--------------------------------|--------------|-------------------|--|---|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 2340 | 4.1 | 4.0 | Agriculture | | Hinesburg |
| Location 2341 | 4.1 | | Agriculture | | Hinesburg |
| Location 2342 Location 2343 | 4.4 5.0 | | Agriculture Agriculture | | Hinesburg Hinesburg |
| Location 2344 | 4.6 | | Agriculture | | Hinesburg |
| Location 2345 | 4.9 | | Agriculture | | Hinesburg |
| Location 2346 | 4.7 | | Agriculture | | Hinesburg |
| Location 2347 | 4.1 | | Agriculture | | Hinesburg |
| Location 2348 | 4.4 | | Agriculture | | Hinesburg |
| Location 2349 | 5.8 | 4.0 | Agriculture | | Hinesburg |
| Location 2350 | 6.7 | 4.0 | Agriculture | | Hinesburg |
| Location 2351 | 4.8 | 4.0 | Agriculture | | Hinesburg |
| Location 2352 | 5.4 | 4.0 | Agriculture | | Hinesburg |
| Location 2353 | 5.7 | | Agriculture | | Hinesburg |
| Location 2354 | 5.1 | | Agriculture | | Hinesburg |
| Location 2355 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2356 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2357 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2358 Location 2359 | 5.1 5.0 | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2360 | 5.0 | | VELCO/Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 2361 | 5.2 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2362 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2363 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2364 | 4.6 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2365 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2366 | 4.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2367 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2368 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2369 | 4.4 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2370 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2371 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2372 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2373 | 5.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2374 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2375 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2376 | 4.1 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2377 Location 2378 | 4.7 7.1 | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 2379 | 9.6 | | Agriculture/Landowner | | Hinesburg |
| Location 2380 | 4.0 | | Agriculture/Landowner | | Hinesburg |
| Location 2381 | 10.5 | | Agriculture/Landowner | | Hinesburg |
| Location 2382 | 10.0 | 4.0 | Agriculture/Landowner | | Hinesburg |
| Location 2383 | 6.3 | 4.0 | Landowner | Baldwin Road - Road Crossing nearby this weld, Pipeline locator indicated a depth of 8.6 feet in roadway. 5-foot minimum required under road. | Hinesburg |
| Location 2384 | 5.7 | 4.0 | Landowner | | Hinesburg |
| Location 2385 | 5.5 | 4.0 | Landowner | | Hinesburg |
| Location 2386 | 5.5 | 4.0 | Landowner | | Hinesburg |
| Location 2387 | 4.7 | 4.0 | Landowner | | Hinesburg |
| Location 2388 | 4.2 | 4.0 | Landowner | | Hinesburg |
| Location 2389 | 4.4 | 4.0 | Landowner | | Hinesburg |
| Location 2390 | 4.1 | 4.0 | Landowner | | Hinesburg |
| Location 2391 | 5.2 | 4.0 | Landowner | | Hinesburg |
| Location 2392 | 4.8 | 4.0 | Landowner | | Hinesburg |
| Location 2393 | 5.2 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2394 | 5.2 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2395 | 5.2 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2396 | 4.8 | 4.0 | VELCO/Landowner | | Hinesburg |
| Location 2397 | 4.6 | 4.0 | VELCO/Landowner VELCO/Landowner | | Hinesburg |
| Location 2398 | 4.2 6.4 | 4.0 | VELCO/Landowner VELCO/Landowner | | Hinesburg |
| Location 2399 | 0.4 | 4.0 | velco/ candowner | | Hinesburg |

| Location Actual Depth De | Generic | | Danii inad | | | 1 |
|--|---------------|--------------|------------|-----------------------------|-------|-------------|
| Interchanger | Location | Actual Depth | Required | Reason for Depth | Notes | Town |
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| Location 2409 5.1 4.0 VELCO/Landowner filtresburg Location 2405 5.1 4.0 VELCO/Landowner filtresburg Location 2405 5.0 4.0 VELCO/Landowner filtresburg Location 2405 5.0 4.0 VELCO/Landowner filtresburg Location 2407 4.8 4.0 VELCO/Landowner filtresburg Location 2407 4.8 4.0 VELCO/Landowner filtresburg Location 2407 4.8 4.0 VELCO/Landowner filtresburg Location 2409 4.0 4.0 VELCO/Landowner filtresburg Location 2409 4.0 4.0 VELCO/Landowner filtresburg Location 2410 4.1 4.0 VELCO/Landowner filtresburg Location 2411 5.0 4.0 Landowner filtresburg Location 2411 5.0 4.0 Landowner filtresburg Location 2411 4.0 4.0 Landowner filtresburg Location 2411 4.5 4.0 Landowner filtresburg Location 2413 4.5 4.0 Landowner filtresburg Location 2413 4.5 4.0 Landowner filtresburg Location 2415 4.5 4.0 Landowner filtresburg Location 2416 4.5 4.0 Landowner filtresburg Location 2418 4.1 4.0 VELCO/Lagiculture/Landowner filtresburg Location 2418 4.1 4.0 VELCO/Lagiculture/Landowner filtresburg Location 2419 4.0 4.0 VELCO/Lagiculture/Landowner filtresburg Location 2420 4.7 4.0 VELCO/Lagiculture/Landowner filtresburg Location 2420 5.7 4.0 VELCO/Lagiculture/Landowner filtresburg Location 2420 5.5 4.0 VELCO/Lagiculture/Landowner filtresburg Loca | | | | - | | |
| Incestion 2404 5.1 | | | | • | | |
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| Location 2496 | | | | • | | |
| Location 2410 | Location 2408 | | 4.0 | VELCO/Landowner | | |
| | Location 2409 | 4.0 | 4.0 | VELCO/Landowner | | Hinesburg |
| | Location 2410 | 4.1 | 4.0 | VELCO/Landowner | | Hinesburg |
| | Location 2411 | 5.0 | 4.0 | Landowner | | Hinesburg |
| | | | | Landowner | | Hinesburg |
| Incation 2415 4.9 4.0 Incation 2416 4.1 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2417 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2417 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2419 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2419 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2420 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2421 4.2 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2421 4.2 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2421 5.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2422 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2423 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2424 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2424 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2426 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2426 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2428 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2428 5.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2428 5.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2429 5.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2430 5.3 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2431 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2431 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2433 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2435 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2436 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2436 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2437 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Incation 2436 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Hinesburg Hinesburg Hinesburg Hinesburg Hinesbur | | | | | | |
| Incation 2416 | | | | | | |
| Discrition 2417 | | | | | | |
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| Incation 2419 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2421 4.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2421 4.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2422 5.7 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2423 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2424 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2424 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2425 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2426 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2426 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2426 4.0 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2429 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2429 5.7 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2430 5.3 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2431 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2431 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2431 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2431 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2433 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2434 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2435 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2436 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2437 4.5 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2439 4.8 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2439 4.8 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2440 4.5 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2440 | | | | | | |
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| Decation 2424 5.5 | | | | | | |
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| Ucation 2426 | | | | | | |
| Location 2427 | | | | | | |
| Location 2429 5.7 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2430 5.3 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2431 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2432 5.5 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2433 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2434 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2435 5.2 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2436 4.7 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2437 4.5 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2438 4.8 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2440 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2440 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg Location 2442 4.5 4.0 | Location 2427 | | | _ | | |
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| Location 24504.34.0VELCO/Agriculture/LandownerHinesburgLocation 24514.14.0VELCO/Agriculture/LandownerHinesburgLocation 24524.34.0VELCO/Agriculture/LandownerHinesburgLocation 24534.64.0VELCO/Agriculture/LandownerHinesburgLocation 24544.64.0VELCO/Agriculture/LandownerHinesburgLocation 24555.24.0VELCO/Agriculture/LandownerHinesburgLocation 24565.64.0VELCO/Agriculture/LandownerHinesburgLocation 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24514.14.0VELCO/Agriculture/LandownerHinesburgLocation 24524.34.0VELCO/Agriculture/LandownerHinesburgLocation 24534.64.0VELCO/Agriculture/LandownerHinesburgLocation 24544.64.0VELCO/Agriculture/LandownerHinesburgLocation 24555.24.0VELCO/Agriculture/LandownerHinesburgLocation 24565.64.0VELCO/Agriculture/LandownerHinesburgLocation 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24524.34.0VELCO/Agriculture/LandownerHinesburgLocation 24534.64.0VELCO/Agriculture/LandownerHinesburgLocation 24544.64.0VELCO/Agriculture/LandownerHinesburgLocation 24555.24.0VELCO/Agriculture/LandownerHinesburgLocation 24565.64.0VELCO/Agriculture/LandownerHinesburgLocation 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24534.64.0VELCO/Agriculture/LandownerHinesburgLocation 24544.64.0VELCO/Agriculture/LandownerHinesburgLocation 24555.24.0VELCO/Agriculture/LandownerHinesburgLocation 24565.64.0VELCO/Agriculture/LandownerHinesburgLocation 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24544.64.0VELCO/Agriculture/LandownerHinesburgLocation 24555.24.0VELCO/Agriculture/LandownerHinesburgLocation 24565.64.0VELCO/Agriculture/LandownerHinesburgLocation 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24555.24.0VELCO/Agriculture/LandownerHinesburgLocation 24565.64.0VELCO/Agriculture/LandownerHinesburgLocation 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24565.64.0VELCO/Agriculture/LandownerHinesburgLocation 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24574.74.0VELCO/Agriculture/LandownerHinesburgLocation 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 24585.24.0VELCO/Agriculture/LandownerHinesburgLocation 24595.14.0VELCO/Agriculture/LandownerHinesburg | | | | | | |
| Location 2459 5.1 4.0 VELCO/Agriculture/Landowner Hinesburg | | | | | | |
| | Location 2459 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | |
| | Location 2460 | 5.6 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |

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| Location | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Identifier # Location 2461 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2462 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2463 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2464 | 4.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2465 | 4.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2466 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2467 | 5.2 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2468 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2469 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2470 | 4.4 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2471 | 4.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2472 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2473 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2474 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2475 | 4.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2476 | 4.5 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2477 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2478 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2479 Location 2480 | 4.3 4.3 | 4.0 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2481 | 4.5 | | VELCO/Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 2482 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2483 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2484 | 4.0 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2485 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2486 | 5.7 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2487 | 6.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2488 | 4.2 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2489 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2490 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2491 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2492 | 5.3 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2493 | 4.8 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2494 | 5.2 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2495 | 5.2 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2496 | 5.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2497 | 5.5 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2498 Location 2499 | 4.7 4.7 | 4.0 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 2500 | 4.7 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2501 | 5.2 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2502 | 4.8 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2503 | 4.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2504 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2505 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2506 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2507 | 7.4 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2508 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2509 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2510 | HDD | | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2511 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2512 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2513 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2514 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2515 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2516 Location 2517 | HDD HDD | 4.0 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg Hinesburg |
| Location 2517 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2519 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2520 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2521 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
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|--------------------------------|--------------|-------------------|--|--|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | NELOO (A | | |
| Location 2522 Location 2523 | HDD HDD | 4.0 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg Hinesburg |
| Location 2524 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2525 | HDD | 5.0 | Road Crossing | Drinkwater Road, Estimated location for Depth from HDD Profile (55.0 feet). | Hinesburg |
| Location 2526 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2527 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2528 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2529 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2530 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2531 | 6.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2532 | 6.6 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2533 | 7.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2534 | 6.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2535 Location 2536 | 7.8 6.4 | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 2537 | 6.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2538 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | Crossing ID # 118, 2012-SC-PW-38 (P) | Hinesburg |
| Location 2539 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | Crossing ID # 118, 2012-SC-PW-38 (P) | Hinesburg |
| Location 2540 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | 2, 2 22 () | Hinesburg |
| Location 2541 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2542 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2543 | 4.4 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2544 | 4.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2545 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2546 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2547 | 5.2 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2548 Location 2549 | 5.1 6.9 | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | Hinesburg Hinesburg |
| Location 2550 | 5.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2551 | 5.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2552 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2553 | 5.6 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2554 | 9.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2555 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2556 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2557 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2558 | HDD | 4.0 | VELCO/Agriculture/Landowner | Estimated location for Depth from HDD Profile (45.0 feet). | Hinesburg |
| Location 2559 | HDD | | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2560 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2561 | HDD HDD | 4.0 4.0 | <u> </u> | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2562 Location 2563 | HDD | | | | Hinesburg Hinesburg |
| Location 2564 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2565 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2566 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2567 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2568 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2569 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2570 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2571 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2572 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2573 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2574 | HDD | 7.0 | DEC Stream | Crossing ID #122, 2012-TB-LC-1 (P) (Lewis Creek), Estimated location for Depth from HDD Profile (60.0 feet). | Hinesburg |
| Location 2575 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2576 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2577 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2578 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2579 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2580 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2581 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |

| Generic Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
|-------------------------------------|--------------|-------------------|-------------------------------------|--|------------------------|
| Location 2582 | HDD | 4.0 | VELCO/Agriculture/Landowner | Crossing ID #104, 2012-SC-PW-36 (I), Estimated location for Depth from HDD Profile (140.0 feet). | Hinesburg |
| Location 2583 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2584 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2585 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2586 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2587 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2588 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2589 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2590 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2591 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2592 | HDD | 4.0 | VELCO | Crossing ID #120, 2012-SC-PW-33 (I) (North Crossing), Estimated location for Depth from HDD Profile (75.0 feet). | Hinesburg |
| Location 2593 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2594 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2595 | HDD | 4.0 | VELCO | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2596 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2597 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2598 | HDD | 4.0 | VELCO/Agriculture/Landowner | Crossing ID #120, 2012-SC-PW-33 (I) (South Crossing), Estimated location for Depth from HDD Profile (30.0 feet). | Hinesburg |
| Location 2599 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2600 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Hinesburg |
| Location 2601 | 7.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2602 | 5.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2603 | 6.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2604 | 7.0 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2605 | 7.1 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2606 | 5.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2607 | 5.7 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2608 | 5.4 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2609 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2610 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2611 | 5.9 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2612 | 6.1 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2613 | 6.6 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2614 | 6.5 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2615 | 6.6 | 4.0 | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2616 | 4.5 | | VELCO/Agriculture/Landowner | | Hinesburg |
| Location 2617 | 5.3 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2618 | 5.6 | | VELCO/Agriculture | | Hinesburg |
| Location 2619 | 5.7 | | VELCO/Agriculture | | Hinesburg |
| Location 2620 | 5.3 | | VELCO/Agriculture | | Hinesburg |
| Location 2621 | 5.3 4.6 | | VELCO/Agriculture VELCO/Agriculture | | Hinesburg |
| Location 2622 Location 2623 | 4.6 | | VELCO/Agriculture | | Hinesburg |
| Location 2624 | 4.4 | | VELCO/Agriculture | | Hinesburg |
| Location 2625 | 5.0 | | VELCO/Agriculture | | Hinesburg Hinesburg |
| Location 2626 | 5.3 | | VELCO/Agriculture | | Hinesburg |
| Location 2627 | 5.6 | | VELCO/Agriculture | | Hinesburg |
| Location 2628 | 5.4 | | VELCO/Agriculture | | Hinesburg |
| Location 2629 | 4.7 | | VELCO/Agriculture | | Hinesburg |
| Location 2630 | 4.5 | | VELCO/Agriculture | | Hinesburg |
| Location 2631 | 4.0 | | VELCO/Agriculture | | Hinesburg |
| Location 2632 | 4.8 | | VELCO/Agriculture | | Hinesburg |
| Location 2633 | 4.8 | | VELCO/Agriculture | | Hinesburg |
| Location 2634 | 4.7 | | VELCO/Agriculture | | Hinesburg |
| Location 2635 | 4.0 | | VELCO/Agriculture | | Hinesburg |
| Location 2636 | 4.2 | | VELCO/Agriculture | | Hinesburg |
| Location 2637 | 4.0 | | VELCO/Agriculture | | Hinesburg |
| Location 2638 | 4.0 | | VELCO/Agriculture | | Hinesburg |
| Location 2639 | 4.8 | | VELCO/Agriculture | | Hinesburg |
| | | | · | | |

| Generic | | | | | 1 |
|--------------------------------|--------------|------------|---|-------------------------------------|------------------------|
| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | | |
| Location 2640 | 5.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2641 | 5.1 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2642 Location 2643 | 5.1 4.9 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2643 | 4.9 | 4.0 4.0 | VELCO/Agriculture VELCO/Agriculture | | Hinesburg |
| Location 2645 | 4.7 | 4.0 | VELCO/Agriculture | | Hinesburg Hinesburg |
| Location 2646 | 4.3 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2647 | 4.4 | | VELCO/Agriculture | | Hinesburg |
| Location 2648 | 4.2 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2649 | 4.0 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2650 | 4.9 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2651 | 4.1 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2652 | 4.1 | 4.0 | VELCO/Agriculture | | Hinesburg |
| Location 2653 | 4.5 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2654 | 4.8 | | VELCO/Agriculture | | Monkton |
| Location 2655 | 4.8 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2656 | 4.5 | | VELCO/Agriculture | | Monkton |
| Location 2657 | 4.8 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2658 Location 2659 | 4.0 4.3 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | Monkton Monkton |
| Location 2660 | 4.5 | | VELCO/Agriculture | | Monkton |
| Location 2661 | 4.5 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2662 | 5.1 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2663 | 4.6 | | VELCO/Agriculture | | Monkton |
| Location 2664 | 4.4 | | VELCO/Agriculture | | Monkton |
| Location 2665 | 4.3 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2666 | 5.1 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2667 | 4.4 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2668 | 5.0 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2669 | 4.9 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2670 | 4.6 | | VELCO/Agriculture | | Monkton |
| Location 2671 | 4.2 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2672 | 4.1 | | VELCO/Agriculture | | Monkton |
| Location 2673 | 4.5 | | VELCO/Agriculture | | Monkton |
| Location 2674 Location 2675 | 4.4 | 4.0 | VELCO/Agriculture | | Monkton Monkton |
| Location 2676 | 5.1 | | VELCO/Agriculture VELCO/Agriculture | | Monkton |
| Location 2677 | 4.0 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2678 | 5.0 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2679 | 4.7 | | VELCO/Agriculture | | Monkton |
| Location 2680 | 4.1 | | VELCO/Agriculture | | Monkton |
| Location 2681 | 4.7 | | VELCO/Agriculture | | Monkton |
| Location 2682 | 4.1 | | VELCO/Agriculture | | Monkton |
| Location 2683 | 4.7 | | VELCO/Agriculture | | Monkton |
| Location 2684 | 4.2 | | VELCO/Agriculture | | Monkton |
| Location 2685 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2686 | 4.2 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2687 | 4.3 5.6 | 4.0 | VELCO/Agriculture/Landowner | | Monkton Monkton |
| Location 2688 Location 2689 | 4.8 | | Agriculture/Landowner Agriculture/Landowner | | Monkton |
| Location 2690 | 5.2 | | Agriculture/Landowner | | Monkton |
| Location 2691 | 5.4 | | Agriculture/Landowner | | Monkton |
| Location 2692 | 5.9 | | Agriculture/Landowner | | Monkton |
| Location 2693 | 6.0 | | Agriculture/Landowner | | Monkton |
| Location 2694 | 5.7 | | Agriculture/Landowner | | Monkton |
| Location 2695 | 5.6 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2696 | 5.9 | | Agriculture/Landowner | | Monkton |
| Location 2697 | 5.9 | | Agriculture/Landowner | | Monkton |
| Location 2698 | 6.8 | | Agriculture/Landowner | Crossing ID #106, 2012-SC-PW-29 (I) | Monkton |
| Location 2699 | 4.5 | | Agriculture/Landowner | | Monkton |
| Location 2700 | 4.4 | 4.0 | Agriculture/Landowner | | Monkton |

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|--------------------------------|--------------|----------|---|--|--------------------|
| | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | 1.0133 | 10 |
| Location 2701 | 5.1 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2702 | 5.4 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2703 | 4.7 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2704 | 4.4 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2705 | 4.1 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2706 | 4.2 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2707 | 4.4 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2708 | 4.0 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2709 | 4.1 | | Agriculture/Landowner | | Monkton |
| Location 2710 | 4.5 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2711 | 4.3 | 4.0 | Agriculture/Landowner | | Monkton Monkton |
| Location 2712 Location 2713 | 4.2 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | Monkton |
| Location 2713 | 4.3 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2715 | 4.2 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2716 | 5.3 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2717 | 4.3 | | Agriculture/Landowner | | Monkton |
| Location 2718 | 4.5 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2719 | 4.5 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2720 | 5.1 | | Agriculture/Landowner | | Monkton |
| Location 2721 | 4.9 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2722 | 5.0 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2723 | 4.8 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2724 | 4.7 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2725 | 5.9 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2726 | 5.4 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2727 | 8.6 | 4.0 | Agriculture | | Monkton |
| Location 2728 | 11.4 | 7.0 | DEC Stream | Crossing ID #107, 2012/2015-TB/SC-PW-28 (P) (Tributary to Lewis Creek, previously 2013-AS-CM-6) | Monkton |
| Location 2729 | 11.9 | 7.0 | DEC Stream | Crossing ID #107, 2012/2015-TB/SC-PW-28 (P) (Tributary to Lewis Creek, previously 2013-AS-CM-6) | Monkton |
| Location 2730 | 11.2 | 7.0 | DEC Stream | Crossing ID #107, 2012/2015-TB/SC-PW-28 (P) (Tributary to Lewis Creek, previously 2013-AS-CM-6) | Monkton |
| Location 2731 | 8.2 | 4.0 | Agriculture | | Monkton |
| Location 2732 | 5.9 | 4.0 | Agriculture | | Monkton |
| Location 2733 | 4.9 | 4.0 | Agriculture | | Monkton |
| Location 2734 | 5.2 | 4.0 | Agriculture | | Monkton |
| Location 2735 | 4.7 | | Agriculture/Landowner | | Monkton |
| Location 2736 | 4.5 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2737 | 4.2 | | Agriculture/Landowner | | Monkton |
| Location 2738 | 4.7 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2739 | 8.5 | 4.0 | Agriculture/Landowner | Rotax Road - Road Crossing nearby this weld, Pipeline locator indicated a depth of 11.3 feet in roadway. 5-foot minimum required under road. | Monkton |
| Location 2740 | 7.2 | | Agriculture/Landowner | | Monkton |
| Location 2741 | 5.8 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2742 | 5.9 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2743 | 5.8 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2744 | 5.6 | | Agriculture/Landowner | | Monkton |
| Location 2745 Location 2746 | 5.3 5.2 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | Monkton Monkton |
| Location 2746 Location 2747 | 5.5 | | Agriculture/Landowner Agriculture/Landowner | | Monkton |
| Location 2748 | 5.2 | | Agriculture/Landowner | | Monkton |
| Location 2749 | 4.7 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2750 | 4.0 | | Agriculture/Landowner | | Monkton |
| Location 2751 | 4.3 | | Agriculture/Landowner | | Monkton |
| Location 2752 | 4.2 | | Agriculture/Landowner | | Monkton |
| Location 2753 | 4.0 | | Agriculture/Landowner | | Monkton |
| Location 2754 | 4.9 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2755 | 4.9 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2756 | 5.1 | | Agriculture/Landowner | | Monkton |
| Location 2757 | 4.6 | 4.0 | Agriculture/Landowner | | Monkton |

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|--------------------------------|--------------|-------------------|---|-------|--------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | • | | | |
| Location 2758 | 4.2 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2759 | 4.1 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 2760 Location 2761 | 4.2 4.5 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | Monkton Monkton |
| Location 2762 | 4.5 | 4.0 | Agriculture | | Monkton |
| Location 2763 | 4.5 | 4.0 | Agriculture | | Monkton |
| Location 2764 | 4.1 | 4.0 | Agriculture | | Monkton |
| Location 2765 | 4.3 | 4.0 | Agriculture | | Monkton |
| Location 2766 | 4.0 | 4.0 | Agriculture | | Monkton |
| Location 2767 | 4.3 | 4.0 | Agriculture | | Monkton |
| Location 2768 | 6.3 | 4.0 | Agriculture | | Monkton |
| Location 2769 | 4.2 | 4.0 | Agriculture | | Monkton |
| Location 2770 | 4.1 | 4.0 | Agriculture | | Monkton |
| Location 2771 | 4.6 | 4.0 | Agriculture | | Monkton |
| Location 2772 | 4.3 | 4.0 | Agriculture | | Monkton |
| Location 2773 | 4.4 | 4.0 | Agriculture | | Monkton |
| Location 2774 Location 2775 | 4.0 4.4 | 4.0 | Agriculture Agriculture | | Monkton Monkton |
| Location 2776 | 4.4 | 4.0 | Agriculture | | Monkton |
| Location 2777 | 4.4 | 4.0 | Agriculture | | Monkton |
| Location 2778 | 4.4 | 4.0 | Agriculture | | Monkton |
| Location 2779 | 5.7 | 4.0 | Agriculture | | Monkton |
| Location 2780 | 6.3 | 4.0 | Agriculture | | Monkton |
| Location 2781 | 5.0 | 4.0 | Agriculture | | Monkton |
| Location 2782 | 5.0 | 4.0 | Agriculture | | Monkton |
| Location 2783 | 5.2 | 4.0 | Agriculture | | Monkton |
| Location 2784 | 5.5 | 4.0 | Agriculture | | Monkton |
| Location 2785 | 4.9 | 4.0 | Agriculture | | Monkton |
| Location 2786 | 5.4 | 4.0 | Agriculture | | Monkton |
| Location 2787 Location 2788 | 5.6 5.1 | 4.0 | Agriculture Agriculture | | Monkton Monkton |
| Location 2789 | 5.1 | 3.0 | PHMSA | | Monkton |
| Location 2790 | 5.7 | 3.0 | PHMSA | | Monkton |
| Location 2791 | 5.4 | 3.0 | PHMSA | | Monkton |
| Location 2792 | 5.6 | 3.0 | PHMSA | | Monkton |
| Location 2793 | 5.6 | 3.0 | PHMSA | | Monkton |
| Location 2794 | 6.1 | 3.0 | PHMSA | | Monkton |
| Location 2795 | 6.2 | 3.0 | PHMSA | | Monkton |
| Location 2796 | 5.9 | 3.0 | PHMSA | | Monkton |
| Location 2797 | 6.4 | 3.0 | PHMSA | | Monkton |
| Location 2798 | 6.0 | 3.0 | PHMSA | | Monkton |
| Location 2799 | 5.9 | 3.0 | PHMSA | | Monkton |
| Location 2800 Location 2801 | 5.5 5.4 | 3.0 | PHMSA PHMSA | | Monkton Monkton |
| Location 2802 | 6.2 | 3.0 | PHMSA | | Monkton |
| Location 2803 | 4.9 | 3.0 | PHMSA | | Monkton |
| Location 2804 | 4.5 | 3.0 | PHMSA | | Monkton |
| Location 2805 | 5.5 | 4.0 | Agriculture | | Monkton |
| Location 2806 | 6.3 | 4.0 | Agriculture | | Monkton |
| Location 2807 | 5.7 | 4.0 | Agriculture | | Monkton |
| Location 2808 | 4.8 | 4.0 | Agriculture | | Monkton |
| Location 2809 | 5.3 | 4.0 | Agriculture | | Monkton |
| Location 2810 | 4.9 | | Agriculture | | Monkton |
| Location 2811 | 5.6 | 4.0 | Agriculture | | Monkton |
| Location 2812 | 5.6 | | Agriculture | | Monkton |
| Location 2813 | 5.7 | | Agriculture | | Monkton |
| Location 2814 Location 2815 | 5.6 5.4 | 4.0 | Agriculture Agriculture | | Monkton Monkton |
| Location 2816 | 5.4 | | Agriculture | | Monkton |
| Location 2817 | 5.5 | 4.0 | Agriculture | | Monkton |
| Location 2818 | 5.3 | 4.0 | Agriculture | | Monkton |
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| Generic | | Doguirod | | | 1 |
|--------------------------------|--------------|-------------------|-------------------------------------|-------|--------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | 4.6 | | And a House | | 24-11 |
| Location 2819 Location 2820 | 4.6 4.8 | 4.0 | Agriculture Agriculture | | Monkton Monkton |
| Location 2821 | 5.1 | | Agriculture | | Monkton |
| Location 2822 | 5.0 | | Agriculture | | Monkton |
| Location 2823 | 4.5 | | Agriculture | | Monkton |
| Location 2824 | 4.5 | | Agriculture | | Monkton |
| Location 2825 | 5.2 | 3.0 | PHMSA | | Monkton |
| Location 2826 | 6.0 | 3.0 | PHMSA | | Monkton |
| Location 2827 | 5.2 | 3.0 | PHMSA | | Monkton |
| Location 2828 | 5.2 | 3.0 | PHMSA | | Monkton |
| Location 2829 | 5.0 | 3.0 | PHMSA | | Monkton |
| Location 2830 | 5.3 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2831 | 5.1 | | VELCO/Agriculture | | Monkton |
| Location 2832 | 4.2 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2833 | 4.8 4.9 | | VELCO/Agriculture | | Monkton |
| Location 2834 Location 2835 | 4.9 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | Monkton Monkton |
| Location 2836 | 4.6 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2837 | 4.4 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2838 | 5.0 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2839 | 5.5 | | VELCO/Agriculture | | Monkton |
| Location 2840 | 5.4 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2841 | 5.7 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2842 | 5.1 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2843 | 5.6 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2844 | 4.7 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2845 | 4.6 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2846 | 4.7 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2847 | 4.0 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2848 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2849 | 4.3 | | VELCO/Agriculture/Landowner | | Monkton |
| Location 2850 | 4.1 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2851 Location 2852 | 5.1 5.3 | | VELCO/Agriculture VELCO/Agriculture | | Monkton Monkton |
| Location 2853 | 4.7 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2854 | 5.6 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2855 | 4.8 | | VELCO/Agriculture | | Monkton |
| Location 2856 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2857 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2858 | 4.4 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2859 | 5.4 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 2860 | 5.6 | | VELCO/Agriculture/Landowner | | Monkton |
| Location 2861 | 4.5 | | VELCO/Agriculture/Landowner | | Monkton |
| Location 2862 | 4.2 | | VELCO/Agriculture | | Monkton |
| Location 2863 | 4.0 | | VELCO/Agriculture | | Monkton |
| Location 2864 | 4.2 | | VELCO/Agriculture | | Monkton |
| Location 2865 | 4.0 | | VELCO/Agriculture | | Monkton |
| Location 2866 Location 2867 | 4.8 4.3 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | Monkton Monkton |
| Location 2867 | 4.3 | | VELCO/Agriculture VELCO/Agriculture | | Monkton |
| Location 2869 | 4.1 | | VELCO/Agriculture | | Monkton |
| Location 2870 | 4.1 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2871 | 4.2 | | VELCO/Agriculture | | Monkton |
| Location 2872 | 4.2 | | VELCO/Agriculture | | Monkton |
| Location 2873 | 4.0 | | VELCO/Agriculture | | Monkton |
| Location 2874 | 4.0 | | VELCO/Agriculture | | Monkton |
| Location 2875 | 4.3 | | VELCO/Agriculture | | Monkton |
| Location 2876 | 4.6 | | VELCO/Agriculture | | Monkton |
| Location 2877 | 4.3 | | VELCO/Agriculture | | Monkton |
| Location 2878 | 4.7 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2879 | 4.7 | 4.0 | VELCO/Agriculture | | Monkton |

| Generic | | Required | | | |
|--------------------------------|--------------|----------|-------------------------------------|--|--------------------|
| Location | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Identifier # Location 2880 | 4.5 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2881 | 4.3 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2882 | 4.9 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2883 | 4.5 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2884 | 4.6 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2885 | 4.8 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2886 | 4.8 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2887 | 4.5 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2888 | 4.9 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2889 | 5.1 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2890 | 4.6 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2891 | 4.7 5.7 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2892 Location 2893 | 5.8 | 5.0 | VELCO/Agriculture Road Crossing | Stillson Road | Monkton Monkton |
| Location 2894 | 5.6 | 4.0 | VELCO/Agriculture | Stillsoft Noau | Monkton |
| Location 2895 | 4.8 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2896 | 6.4 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2897 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2898 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2899 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2900 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2901 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2902 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2903 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2904 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2905 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2906 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2907 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2908 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2909 | HDD | 4.0 | VELCO/Agriculture | Estimated location for Depth from HDD Profile (85.0 feet). | Monkton |
| Location 2910 Location 2911 | HDD HDD | 4.0 | VELCO/Agriculture VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton Monkton |
| Location 2912 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2913 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2914 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2915 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2916 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2917 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2918 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2919 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 2920 | 8.0 | | VELCO/Agriculture | | Monkton |
| Location 2921 | 4.9 | | VELCO/Agriculture | | Monkton |
| Location 2922 | 5.2 | | VELCO/Agriculture | | Monkton |
| Location 2923 | 4.8 | | VELCO/Agriculture | | Monkton Monkton |
| Location 2924 Location 2925 | 5.2 5.2 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | Monkton |
| Location 2925 | 5.0 | | VELCO/Agriculture | | Monkton |
| Location 2927 | 4.7 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2928 | 4.4 | | VELCO/Agriculture | | Monkton |
| Location 2929 | 5.0 | | VELCO/Agriculture | | Monkton |
| Location 2930 | ROADBORE | 4.0 | VELCO/Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | Monkton |
| Location 2931 | ROADBORE | 4.0 | VELCO/Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | Monkton |
| Location 2932 | ROADBORE | 4.0 | VELCO/Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | Monkton |
| Location 2933 | ROADBORE | 4.0 | VELCO/Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | Monkton |
| Location 2934 | ROADBORE | 5.0 | Road Crossing | Hollow Road, Pipeline locator indicated a depth of 22.3 feet in roadway. | Monkton |
| Location 2935 | 6.0 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2936 | 4.9 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2937 | 8.0 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2938 | 8.0 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2939 | 6.7 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | Monkton |
| Location 2940 | 6.3 | 4.0 | velco/Agriculture | | Monkton |

| | Generic Location | Actual Depth | Required | Reason for Depth | Notes | Town |
|--|---------------------|--------------|----------|-------------------|---|---------|
| | Identifier# | , | Depth | | | |
| Incartion 2944 4.4 | | | | _ | | |
| Dozation 2944 4.4 4.0 VELCO/Agriculture Monkton Monkton Monkton VELCO/Agriculture Monkton Monkton VELCO/Agriculture Monkton Monkton VELCO/Agriculture Monkton VELCO/Agriculture Monkton Monkton VELCO/Agriculture Monkton Monkton VELCO/Agriculture Monkton VELCO/Agriculture Monkton VELCO/Agriculture Monkton VELCO/Agriculture Crossing ID #108, 2012-TB/SC-R5-3 (P) Monkton VELCO/Agriculture VELCO/Agriculture Monkton Monkton VELCO/Agriculture Monkton Monkton Monkton VELCO/Agriculture Monkton Monkton Monkton VELCO/Agriculture Monkton Monkton Monkton VELCO/Agriculture Monkton Monkton Monkton Monkton VELCO/Agriculture Monkton Monkton Monkton Monkton VELCO/ | · | | | | | |
| Location 2945 4.4 4.0 VELCO/Agriculture Moniton Moniton Location 2947 4.9 4.0 VELCO/Agriculture Moniton Moniton Location 2947 4.9 4.0 VELCO/Agriculture Moniton Moniton Location 2949 5.9 4.0 VELCO/Agriculture Crossing ID #108, 2012-TB/SC.RS-3 (P) Moniton Location 2949 5.9 4.0 VELCO/Agriculture Crossing ID #108, 2012-TB/SC.RS-3 (P) Moniton Location 2951 7.5 4.0 VELCO/Agriculture Crossing ID #108, 2012-TB/SC.RS-3 (P) Moniton Location 2951 7.5 4.0 VELCO/Agriculture Crossing ID #108, 2012-TB/SC.RS-3 (P) Moniton Location 2953 4.8 4.0 VELCO/Agriculture Crossing ID #108, 2012-TB/SC.RS-3 (P) Moniton Location 2953 4.8 4.0 VELCO/Agriculture Moniton Location 2955 4.8 4.0 VELCO/Agriculture Moniton Location 2955 4.8 4.0 VELCO/Agriculture Moniton Location 2955 4.8 4.0 VELCO/Agriculture Moniton Location 2957 5.3 4.0 VELCO/Agriculture Moniton Location 2957 5.3 4.0 VELCO/Agriculture Moniton Location 2959 5.3 4.0 VELCO/Agriculture Moniton Location 2959 5.3 4.0 VELCO/Agriculture Moniton Location 2959 5.3 4.0 VELCO/Agriculture Location 2959 5.3 4.0 VELCO/Agriculture Moniton Moniton Location 2956 4.8 4.0 VELCO/Agriculture Moniton Location 2956 5.3 4.0 VELCO/Agriculture Moniton Moniton Location 2956 5.3 4.0 VELCO/Agriculture Location 2956 5.3 4.0 VELCO/Agriculture Location 2956 5.3 4.0 VELCO/Agriculture Location 2956 5.7 4.0 VELCO/Agriculture Location 2957 5.3 4.0 VELCO/Agriculture Location 2957 5.3 4.0 VELCO/Agriculture Location 2957 5.3 4.0 VELCO/Agriculture Location 2958 5.7 4.0 VELCO/Agriculture Location 2958 5.7 | | | | | | |
| Location 2946 4.4 4.0 VELCO/Agriculture Monitean Monit | | | | | | |
| Location 2947 | | | | | | |
| Location 1948 | | | | · • | | |
| Location 2949 5.9 | | | | | | |
| | | | | • • | Crossing ID #108_2012-TR/SC-RS-3 (P) | |
| Docation 2951 | | | | | | |
| Decation 2952 4.3 4.0 VELCO/Agriculture Monkton Monk | | | | | | |
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| Location 2954 4.2 4.0 VELCO/Agriculture Monkton Monkto | Location 2953 | | 4.0 | | | Monkton |
| Decation 2956 4.7 4.0 VELCO/Agriculture Monkton Decation 2958 4.1 4.0 VELCO/Agriculture Monkton Decation 2958 4.1 4.0 VELCO/Agriculture Monkton Decation 2950 4.8 4.0 VELCO/Agriculture Monkton Decation 2950 4.8 4.0 VELCO/Agriculture Monkton Decation 2951 4.3 4.0 VELCO/Agriculture Monkton Decation 2951 4.3 4.0 VELCO/Agriculture Monkton Decation 2951 4.3 4.0 VELCO/Agriculture Monkton Decation 2951 4.5 4.0 VELCO/Agriculture Monkton Decation 2953 4.6 4.0 VELCO/Agriculture Monkton Decation 2954 4.2 4.0 Agriculture Monkton Decation 2954 7.2 4.0 Agriculture Monkton Decation 2955 7.0 4.0 Agriculture Monkton Decation 2955 7.0 4.0 Agriculture Monkton Decation 2956 7.3 4.0 Agriculture Monkton Decation 2956 7.3 4.0 Agriculture Monkton Decation 2956 7.3 4.0 Agriculture Monkton Decation 2956 5.5 4.0 VELCO/Agriculture Monkton Decation 2956 5.5 4.0 VELCO/Agriculture Monkton Decation 2970 6.5 4.0 VELCO/Agriculture Monkton Decation 2971 6.0 4.0 VELCO/Agriculture Monkton Decation 2971 4.4 4.0 VELCO/Agriculture Monkton Decation 2973 4.3 4.0 VELCO/Agriculture Monkton Decation 2978 4.3 4.0 VELCO/Agriculture Monkto | Location 2954 | 4.2 | | | | Monkton |
| Decation 2956 4.7 4.0 VELCO/Agriculture Monkton Decation 2958 4.1 4.0 VELCO/Agriculture Monkton Decation 2958 4.1 4.0 VELCO/Agriculture Monkton Decation 2950 4.8 4.0 VELCO/Agriculture Monkton Decation 2950 4.8 4.0 VELCO/Agriculture Monkton Decation 2951 4.3 4.0 VELCO/Agriculture Monkton Decation 2951 4.3 4.0 VELCO/Agriculture Monkton Decation 2951 4.3 4.0 VELCO/Agriculture Monkton Decation 2951 4.5 4.0 VELCO/Agriculture Monkton Decation 2953 4.6 4.0 VELCO/Agriculture Monkton Decation 2954 4.2 4.0 Agriculture Monkton Decation 2954 7.2 4.0 Agriculture Monkton Decation 2955 7.0 4.0 Agriculture Monkton Decation 2955 7.0 4.0 Agriculture Monkton Decation 2956 7.3 4.0 Agriculture Monkton Decation 2956 7.3 4.0 Agriculture Monkton Decation 2956 7.3 4.0 Agriculture Monkton Decation 2956 5.5 4.0 VELCO/Agriculture Monkton Decation 2956 5.5 4.0 VELCO/Agriculture Monkton Decation 2970 6.5 4.0 VELCO/Agriculture Monkton Decation 2971 6.0 4.0 VELCO/Agriculture Monkton Decation 2971 4.4 4.0 VELCO/Agriculture Monkton Decation 2973 4.3 4.0 VELCO/Agriculture Monkton Decation 2978 4.3 4.0 VELCO/Agriculture Monkto | Location 2955 | 4.8 | 4.0 | VELCO/Agriculture | | Monkton |
| Incation 2958 | Location 2956 | 4.7 | | | | Monkton |
| | Location 2957 | 5.3 | 4.0 | VELCO/Agriculture | | Monkton |
| Decation 2960 | Location 2958 | 4.1 | | | | Monkton |
| Decation 2961 | Location 2959 | | 4.0 | VELCO/Agriculture | | Monkton |
| Decision 2962 | | | | | | |
| Decation 2963 | | | | • • | | |
| Location 2964 7.2 | | | | . 0 | | |
| Location 2965 7.0 | | | | | | |
| Location 2966 7.3 4.0 Agriculture Monkton Location 2967 7.3 4.0 Agriculture Monkton Monkton Location 2968 6.7 4.0 VELCO/Agriculture Monkton Location 2969 6.5 4.0 VELCO/Agriculture Monkton Location 2970 6.9 4.0 VELCO/Agriculture Monkton Location 2971 6.0 4.0 VELCO/Agriculture Monkton Location 2971 6.0 4.0 VELCO/Agriculture Monkton Location 2972 4.4 4.0 VELCO/Agriculture Monkton Location 2973 4.3 4.0 VELCO/Agriculture Monkton Location 2973 4.3 4.0 VELCO/Agriculture Monkton Location 2974 4.3 4.0 VELCO/Agriculture Monkton Location 2975 4.1 4.0 VELCO/Agriculture Monkton Location 2976 4.8 4.0 VELCO/Agriculture Monkton Location 2976 4.8 4.0 VELCO/Agriculture Monkton Location 2977 5.4 4.0 VELCO/Agriculture Monkton Location 2978 5.4 4.0 VELCO/Agriculture Monkton Location 2979 5.4 4.0 VELCO/Agriculture Monkton Location 2979 4.3 4.0 VELCO/Agriculture Monkton Location 2979 4.3 4.0 VELCO/Agriculture Monkton Location 2979 4.3 4.0 VELCO/Agriculture Monkton Location 2989 5.4 4.0 VELCO/Agriculture Monkton Location 2980 4.6 4.0 VELCO/Agriculture Monkton Location 2981 6.4 4.0 VELCO/Agriculture Monkton Location 2981 6.4 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2985 8.2 4.0 VELCO/Agriculture Monkton Location 2986 6.8 4.0 VELCO/Agriculture Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2989 5.1 4.0 VELCO/Agriculture Monkton Location 2999 5.3 4.0 VELCO/Agriculture Monkton Location 2999 5.4 4.0 VELCO/Agriculture Monkton Location 2999 | | | | | | |
| Location 2967 7.3 | | | | | | |
| Docation 2968 6.7 | | | | | | |
| Decation 2969 6.5 | | | | | | |
| Decation 2970 6.9 | | | | | | |
| Location 2971 6.0 | | | | | | |
| Location 2972 | | | | | | |
| Location 2973 4.3 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2974 4.3 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2975 4.1 4.0 VELCO/Agriculture Monkton Location 2976 4.8 4.0 VELCO/Agriculture Monkton Location 2977 5.4 4.0 VELCO/Agriculture Monkton Location 2978 5.4 4.0 VELCO/Agriculture Monkton Location 2979 4.3 4.0 VELCO/Agriculture Monkton Location 2980 4.6 4.0 VELCO/Agriculture Monkton Location 2981 6.4 4.0 VELCO/Agriculture Monkton Location 2982 4.2 4.0 VELCO/Agriculture Monkton Location 2983 4.3 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2985 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2999 | | | | | | |
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| Location 2978 5.4 4.0 VELCO/Agriculture Monkton | Location 2976 | 4.8 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2979 4.3 4.0 VELCO/Agriculture Monkton | Location 2977 | 5.4 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2980 4.6 4.0 VELCO/Agriculture Monkton Location 2981 6.4 4.0 VELCO/Agriculture Monkton Location 2982 4.2 4.0 VELCO/Agriculture Monkton Location 2983 4.3 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2985 8.2 4.0 VELCO/Agriculture Monkton Location 2986 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2998 4.7 4.0 VELCO/Agriculture Monkton Location 2999 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2995 | Location 2978 | 5.4 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2981 6.4 4.0 VELCO/Agriculture Monkton Location 2982 4.2 4.0 VELCO/Agriculture Monkton Location 2983 4.3 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2985 8.2 4.0 VELCO/Agriculture Monkton Location 2986 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 | Location 2979 | 4.3 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 2982 4.2 4.0 VELCO/Agriculture Monkton Location 2983 4.3 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2985 8.2 4.0 VELCO/Agriculture Monkton Location 2986 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 | Location 2980 | 4.6 | | | | Monkton |
| Location 2983 4.3 4.0 VELCO/Agriculture Monkton Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2985 8.2 4.0 VELCO/Agriculture Monkton Location 2986 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 5.7 4.0 VELCO/Agriculture Monkton Location 2996 5.7 | | | | | | |
| Location 2984 6.8 4.0 VELCO/Agriculture Monkton Location 2985 8.2 4.0 VELCO/Agriculture Monkton Location 2986 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 5.7 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 | | | | | | |
| Location 2985 8.2 4.0 VELCO/Agriculture Monkton Location 2986 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2999 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | , | | |
| Location 2986 7.9 5.0 Road Crossing Post Road Monkton Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2999 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2987 11.1 4.0 VELCO/Agriculture Monkton Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | Doub Dood | |
| Location 2988 4.5 4.0 VELCO/Agriculture Monkton Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | Post Road | |
| Location 2989 4.7 4.0 VELCO/Agriculture Monkton Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2990 5.3 4.0 VELCO/Agriculture Monkton Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2991 4.0 4.0 VELCO/Agriculture Monkton Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2992 4.9 4.0 VELCO/Agriculture Monkton Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2993 5.4 4.0 VELCO/Agriculture Monkton Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2994 4.1 4.0 VELCO/Agriculture Monkton Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2995 4.2 4.0 VELCO/Agriculture Monkton Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2996 5.7 4.0 VELCO/Agriculture Monkton Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | · • | | |
| Location 2997 6.1 4.0 VELCO/Agriculture Monkton Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| Location 2998 5.1 4.0 VELCO/Agriculture Monkton | | | | | | |
| | | | | | | |
| | Location 2999 | | 4.0 | | | Monkton |

| Generic | | D = ==== d | | | |
|--------------------------------|--------------|-------------------|-------------------------------------|--|--------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | 4.5 | | NELOO (4 | | |
| Location 3000 | 4.5 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 3001 Location 3002 | 4.5 4.5 | 4.0 4.0 | VELCO/Agriculture VELCO/Agriculture | | Monkton Monkton |
| Location 3003 | 5.4 | 4.0 | VELCO/Agriculture | Crossing ID #109, 2012-TB/SC-RS-1 (P) | Monkton |
| Location 3004 | 6.1 | 4.0 | VELCO/Agriculture | Crossing ID #109, 2012-TB/SC-RS-1 (P) | Monkton |
| Location 3005 | 4.1 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 3006 | 4.5 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 3007 | 4.6 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 3008 | 5.9 | 4.0 | VELCO/Agriculture | | Monkton |
| Location 3009 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3010 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3011 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3012 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3013 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3014 Location 3015 | HDD HDD | 4.0 | VELCO/Agriculture VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton Monkton |
| Location 3015 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3017 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3018 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3019 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3020 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3021 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3022 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3023 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3024 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3025 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3026 | HDD | 39.0 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3027 Location 3028 | HDD HDD | 39.0 | Monkton Swamp Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton Monkton |
| Location 3029 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3030 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3031 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3032 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3033 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3034 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3035 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3036 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3037 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3038 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3039 | HDD | 39.0 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3040 Location 3041 | HDD HDD | 39.0 | Monkton Swamp Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. Estimated location for Depth from HDD Profile (40.0 feet) | Monkton Monkton |
| Location 3042 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3043 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3044 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3045 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3046 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3047 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3048 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3049 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3050 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3051 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3052 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3053 Location 3054 | HDD HDD | 39.0 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3054 | HDD | 39.0 | Monkton Swamp Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton Monkton |
| Location 3056 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3057 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3058 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3059 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3060 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| | | | | | |

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|--------------------------------|--------------|----------|--|--|--------------------|
| Location Identifier # | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Location 3061 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3062 | HDD | 39.0 | Monkton Swamp | Based on HDD Profile, minimum depth is at least 39.0 feet. | Monkton |
| Location 3063 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3064 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3065 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3066 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3067 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3068 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3069 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3070 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3071 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3072 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3073 | 5.6 | | Agriculture/Landowner | | Monkton |
| Location 3074 | 4.9 | | Agriculture/Landowner | | Monkton |
| Location 3075 | 5.0 | | Agriculture/Landowner | | Monkton |
| Location 3076 | 5.5 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 3077 | 5.4 | | Agriculture/Landowner | | Monkton |
| Location 3078 | 4.1 | | Agriculture/Landowner | | Monkton |
| Location 3079 | 4.3 4.4 | | Agriculture/Landowner | | Monkton Monkton |
| Location 3080 | | | Agriculture/Landowner | | |
| Location 3081 Location 3082 | 4.9 4.8 | | Agriculture/Landowner Agriculture/Landowner | | Monkton Monkton |
| Location 3083 | 4.8 | | Agriculture/Landowner | | Monkton |
| Location 3084 | 4.7 | | Agriculture/Landowner | | Monkton |
| Location 3085 | 5.3 | 4.0 | Agriculture/Landowner | | Monkton |
| Location 3086 | 4.4 | | Agriculture/Landowner | | Monkton |
| Location 3087 | 5.1 | | Agriculture/Landowner | | Monkton |
| Location 3088 | 5.1 | | Agriculture/Landowner | | Monkton |
| Location 3089 | 4.6 | | Agriculture/Landowner | | Monkton |
| Location 3090 | 4.8 | | Agriculture/Landowner | | Monkton |
| Location 3091 | 5.0 | | Agriculture/Landowner | | Monkton |
| Location 3092 | 4.8 | | Agriculture/Landowner | | Monkton |
| Location 3093 | 5.4 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3094 | 4.4 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3095 | 4.2 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3096 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3097 | 4.9 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3098 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3099 | 6.2 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3100 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3101 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3102 | 7.0 | | VELCO/Agriculture/Landowner | | Monkton |
| Location 3103 | HDD | | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3104 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3105 | HDD | 5.0 | Road Crossing | Monkton Road, Estimated location for Depth from HDD Profile (35.0). | Monkton |
| Location 3106 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3107 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3108 Location 3109 | HDD HDD | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton Monkton |
| Location 3109 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3111 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3111 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3113 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3114 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3115 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3116 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3117 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3118 | 6.3 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3119 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3120 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3121 | 5.8 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
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| | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier# | · | Depth | · | | |
| Location 3122 | 5.2 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3123 | 5.4 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3124 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3125 | 4.8 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3126 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3127 | 5.6 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3128 | 7.0 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3129 | 4.6 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3130 | 4.2 | | VELCO/Agriculture/Landowner | | Monkton |
| Location 3131 | 4.3 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3132 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3133 Location 3134 | 4.2 | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | Monkton Monkton |
| Location 3135 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3136 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3137 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3138 | 5.8 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3139 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3140 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3141 | HDD | 4.0 | VELCO/Agriculture/Landowner | Estimated location for Depth from HDD Profile (20.0 feet). | Monkton |
| Location 3142 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3143 | HDD | | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3144 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3145 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | Monkton |
| Location 3146 | 6.7 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3147 | 6.2 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3148 | 5.7 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3149 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3150 | 5.9 | 4.0 | VELCO/Agriculture/Landowner | | Monkton |
| Location 3151 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3152 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3153 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3154 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3155 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3156 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3157 Location 3158 | 5.6 7.0 | 5.0 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3159 | 6.8 | 5.0 | Landowner | | Monkton |
| Location 3160 | 6.7 | 5.0 | Landowner | | Monkton |
| Location 3161 | 5.0 | | Landowner | | Monkton |
| Location 3162 | 5.3 | | Landowner | | Monkton |
| Location 3163 | 5.5 | | Landowner | | Monkton |
| Location 3164 | 6.6 | 5.0 | Landowner | | Monkton |
| Location 3165 | 6.3 | | Landowner | | Monkton |
| Location 3166 | 5.7 | | Landowner | | Monkton |
| Location 3167 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3168 | 6.6 | 5.0 | Landowner | | Monkton |
| Location 3169 | 6.9 | 5.0 | Landowner | | Monkton |
| Location 3170 | 6.6 | 5.0 | Landowner | | Monkton |
| Location 3171 | 6.5 | | Landowner | | Monkton |
| Location 3172 | 6.8 | | Landowner | | Monkton |
| Location 3173 | 6.4 | | Landowner | | Monkton |
| Location 3174 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3175 | 6.2 | | Landowner | | Monkton |
| Location 3176 | 7.1 | | Landowner | | Monkton |
| Location 3177 | 7.1 | | Landowner | | Monkton |
| Location 3178 | 7.0 | | Landowner | | Monkton |
| Location 3179 | 7.3 | | Landowner | | Monkton |
| Location 3180 | 6.6 | 5.0 | Landowner | | Monkton |
| Location 3181 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3182 | 5.6 | 5.0 | Landowner | | Monkton |

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|--------------------------------|--------------|-------------------|-------------------------|---|--------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 3183 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3184 Location 3185 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3185 | 5.0 5.4 | 5.0 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3187 | 5.6 | 5.0 | Landowner | | Monkton |
| Location 3188 | 8.0 | 5.0 | Landowner | | Monkton |
| Location 3189 | 6.0 | 5.0 | Landowner | | Monkton |
| Location 3190 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3191 | 7.6 | 7.0 | DEC Stream | Crossing ID #32, 2012-TB-JB-7 (P) (Tributary to Little Otter Creek) | Monkton |
| Location 3192 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3193 | 8.7 | 5.0 | Landowner | | Monkton |
| Location 3194 | 8.2 | 5.0 | Landowner | | Monkton |
| Location 3195 | 6.6 | 5.0 | Landowner | | Monkton |
| Location 3196 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3197 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3198 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3199 Location 3200 | 6.1 5.8 | 5.0 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3201 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3202 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3203 | 6.5 | 5.0 | Landowner | | Monkton |
| Location 3204 | 6.7 | 5.0 | Landowner | | Monkton |
| Location 3205 | 6.7 | 5.0 | Landowner | | Monkton |
| Location 3206 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3207 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3208 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3209 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3210 | 6.5 | 5.0 | Landowner | | Monkton |
| Location 3211 | 6.5 | 5.0 | Landowner | | Monkton |
| Location 3212 Location 3213 | 6.5 6.3 | 5.0 5.0 | Landowner | | Monkton |
| Location 3213 | 5.0 | 5.0 | Landowner Road Crossing | Old Stage Road | Monkton Monkton |
| Location 3215 | 5.5 | 3.0 | PHMSA | old Stage Noad | Monkton |
| Location 3216 | 4.3 | 3.0 | PHMSA | | Monkton |
| Location 3217 | 5.0 | 3.0 | PHMSA | | Monkton |
| Location 3218 | 6.3 | 3.0 | PHMSA | | Monkton |
| Location 3219 | 7.3 | 3.0 | PHMSA | | Monkton |
| Location 3220 | 7.0 | 3.0 | PHMSA | | Monkton |
| Location 3221 | 6.8 | 3.0 | PHMSA | | Monkton |
| Location 3222 | 6.0 | 3.0 | PHMSA | | Monkton |
| Location 3223 | 6.1 | | PHMSA | | Monkton |
| Location 3224 | 6.0 | 3.0 | PHMSA | | Monkton |
| Location 3225 | 6.2 | 3.0 | PHMSA | | Monkton |
| Location 3226 Location 3227 | 4.2 4.6 | 3.0 | PHMSA PHMSA | | Monkton Monkton |
| Location 3227 | 7.4 | 3.0 | PHMSA | | Monkton |
| Location 3229 | 10.3 | 3.0 | PHMSA | | Monkton |
| Location 3230 | 10.8 | 3.0 | PHMSA | | Monkton |
| Location 3231 | 9.2 | 3.0 | PHMSA | | Monkton |
| Location 3232 | 5.7 | 5.0 | Road Crossing | Old Stage Road | Monkton |
| Location 3233 | 8.9 | 5.0 | Landowner | | Monkton |
| Location 3234 | 8.7 | 5.0 | Landowner | | Monkton |
| Location 3235 | 8.9 | 5.0 | Landowner | | Monkton |
| Location 3236 | 7.6 | 5.0 | Landowner | | Monkton |
| Location 3237 | 6.7 | 5.0 | Landowner | | Monkton |
| Location 3238 | 5.1 | 5.0 | Landowner | | Monkton |
| Location 3239 | 6.6 | 5.0 5.0 | Landowner | | Monkton |
| Location 3240 Location 3241 | 6.4 7.7 | 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3241 Location 3242 | 7.7 | 5.0 | Landowner | | Monkton |
| Location 3243 | 7.5 | 5.0 | Landowner | | Monkton |
| | 7.0 | 3.0 | 1 | <u> </u> | 1 |

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| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | | |
| Location 3244 | 7.9 | 5.0 | Landowner | | Monkton |
| Location 3245 | 7.3 | 5.0 | Landowner | | Monkton |
| Location 3246 | 7.2 | 5.0 | Landowner | | Monkton |
| Location 3247 | 7.3 | 5.0 | Landowner | | Monkton |
| Location 3248 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3249 | 6.8 | 5.0 | Landowner | | Monkton |
| Location 3250 | 6.0 | 5.0 | Landowner | | Monkton |
| Location 3251 | 7.0 | 5.0 | Landowner | | Monkton |
| Location 3252 | 7.2 | 5.0 | Landowner | | Monkton |
| Location 3253 | 8.3 | 5.0 | Landowner | | Monkton |
| Location 3254 | 5.7 | 5.0 | Landowner | | Monkton |
| Location 3255 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3256 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3257 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3258 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3259 | 7.7 | 5.0 | Landowner | Old Stage Road - Road Crossing nearby this weld, Pipeline locator indicated a depth of 10.2 feet in roadway. 5-foot minimum required under road. | Monkton |
| Location 3260 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3261 | 5.7 | 5.0 | Landowner | | Monkton |
| Location 3262 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3263 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3264 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3265 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3266 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3267 | 6.5 | 5.0 | Landowner | | Monkton |
| Location 3268 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3269 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3270 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3271 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3272 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3273 | 5.6 | 5.0 | Landowner | | Monkton |
| Location 3274 | 5.2 | 5.0 | Landowner | | Monkton |
| Location 3275 | 6.0 | 5.0 | Landowner | | Monkton |
| Location 3276 | 6.5 | 5.0 | Landowner | | Monkton |
| Location 3277 | 6.5 | 5.0 | Landowner | | Monkton |
| Location 3278 | 6.9 | 5.0 | Landowner | | Monkton |
| Location 3279 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3280 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3281 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3282 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3283 | 5.8 | | Landowner | | Monkton |
| Location 3284 | 6.5 | | Landowner | | Monkton |
| Location 3285 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3286 | 6.0 | | Landowner | | Monkton Monkton |
| Location 3287 | 6.1 | 5.0 5.0 | Landowner | | |
| Location 3288 Location 3289 | 6.5 5.8 | 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3290 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3291 | 7.6 | 5.0 | Landowner | | Monkton |
| Location 3292 | 7.0 | 5.0 | Landowner | | Monkton |
| Location 3293 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3294 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3295 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3296 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3297 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3298 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3299 | 6.6 | 5.0 | Landowner | | Monkton |
| Location 3300 | 6.9 | | Landowner | | Monkton |
| Location 3301 | 7.0 | 5.0 | Landowner | | Monkton |
| Location 3302 | 6.9 | 5.0 | Landowner | | Monkton |
| Location 3303 | 5.8 | 5.0 | Landowner | | Monkton |
| | | | 1 | l | |

| Generic Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
|-------------------------------------|--------------|-------------------|------------------------|--|--------------------|
| Location 3304 | 10.0 | 5.0 | Landowner | Parks-Hurlburt Road - Road Crossing nearby this weld, Pipeline locator indicated a depth of 9.1 feet in roadway. 5-foot minimum required under road. | Monkton |
| Location 3305 | 9.0 | 5.0 | Landowner | | Monkton |
| Location 3306 | 5.6 | 5.0 | Landowner | | Monkton |
| Location 3307 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3308 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3309 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3310 | 5.7 | 5.0 | Landowner | | Monkton |
| Location 3311 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3312 | 5.7 | 5.0 | Landowner | | Monkton |
| Location 3313 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3314 | 5.1 | 5.0 | Landowner | | Monkton |
| Location 3315 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3316 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3317 | 5.9 | 5.0 5.0 | Landowner | | Monkton Monkton |
| Location 3318 Location 3319 | 5.7 6.1 | 5.0 | Landowner Landowner | | Monkton |
| Location 3320 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3321 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3322 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3323 | 5.2 | 5.0 | Landowner | | Monkton |
| Location 3324 | 5.2 | 5.0 | Landowner | | Monkton |
| Location 3325 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3326 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3327 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3328 | 5.2 | 5.0 | Landowner | | Monkton |
| Location 3329 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3330 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3331 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3332 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3333 | 5.1 | 5.0 | Landowner | | Monkton |
| Location 3334 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3335 | 5.2 | 5.0 | Landowner | | Monkton |
| Location 3336 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3337 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3338 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3339 | 5.2 | 5.0 | Landowner | | Monkton |
| Location 3340 | 5.2 | 5.0 | Landowner | | Monkton |
| Location 3341 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3342 | 5.7 | 5.0 | Landowner | | Monkton |
| Location 3343 | 5.7 | 5.0 | Landowner | | Monkton |
| Location 3344 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3345 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3346 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3347 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3348 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3349 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3350 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3351 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3352 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3353 | 6.0 | 5.0 | Landowner | | Monkton |
| Location 3354 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3355 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3356 Location 3357 | 6.2 5.1 | 5.0 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3357 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3359 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3360 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3361 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3362 | 6.0 | 5.0 | Landowner | | Monkton |
| 20041011 3302 | 0.0 | 5.0 | | | 1.710111110111 |

| Generic | | Poguirod | | | |
|--------------------------------|--------------|-------------------|------------------------|---|--------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | 6.2 | | | | |
| Location 3363 Location 3364 | 6.2 6.4 | 5.0 5.0 | Landowner Landowner | | Monkton |
| Location 3365 | 6.2 | 5.0 | Landowner | | Monkton Monkton |
| Location 3366 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3367 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3368 | 7.1 | 5.0 | Landowner | | Monkton |
| Location 3369 | 6.8 | 5.0 | Landowner | | Monkton |
| Location 3370 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3371 | 6.6 | 5.0 | Landowner | | Monkton |
| Location 3372 | 6.9 | 5.0 | Landowner | | Monkton |
| Location 3373 | 6.8 | 5.0 | Landowner | | Monkton |
| Location 3374 | 6.8 | 5.0 | Landowner | | Monkton |
| Location 3375 | 6.0 | 5.0 | Landowner | | Monkton |
| Location 3376 | 6.0 | 5.0 5.0 | Landowner | | Monkton |
| Location 3377 Location 3378 | 6.4 6.7 | 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3379 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3380 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3381 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3382 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3383 | 6.1 | 5.0 | Landowner | | Monkton |
| Location 3384 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3385 | 5.6 | 5.0 | Landowner | | Monkton |
| Location 3386 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3387 | 5.8 | 5.0 | Landowner | | Monkton |
| Location 3388 | 5.1 | 5.0 | Landowner | | Monkton |
| Location 3389 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3390 Location 3391 | 5.4 5.5 | 5.0 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3392 | 6.3 | 5.0 | Landowner | | Monkton |
| Location 3393 | 6.2 | 5.0 | Landowner | | Monkton |
| Location 3394 | 9.1 | 7.0 | DEC Stream | Crossing ID #111, 2012-SC-RS-5a (P) (Tributary to Little Otter Creek) | Monkton |
| Location 3395 | 6.4 | 5.0 | Landowner | , , , , , , , , , , , , , , , , , , , | Monkton |
| Location 3396 | 8.0 | 5.0 | Landowner | Crossing ID #112, 2012-SC-RS-5 (P) | Monkton |
| Location 3397 | 7.2 | 5.0 | Landowner | | Monkton |
| Location 3398 | 6.4 | 5.0 | Landowner | | Monkton |
| Location 3399 | 5.7 | 5.0 | Landowner | | Monkton |
| Location 3400 | 5.9 | 5.0 | Landowner | | Monkton |
| Location 3401 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3402 | 5.2 | 5.0 5.0 | Landowner | | Monkton |
| Location 3403 Location 3404 | 5.2 5.6 | 5.0 | Landowner Landowner | | Monkton Monkton |
| Location 3405 | 5.5 | 5.0 | Landowner | | Monkton |
| Location 3406 | 5.4 | 5.0 | Landowner | | Monkton |
| Location 3407 | 5.3 | 5.0 | Landowner | | Monkton |
| Location 3408 | 5.1 | 5.0 | Landowner | | Monkton |
| Location 3409 | 5.0 | 5.0 | Landowner | | Monkton |
| Location 3410 | 5.2 | 4.0 | VELCO | | New Haven |
| Location 3411 | 4.9 | 4.0 | VELCO | | New Haven |
| Location 3412 | 4.4 | 4.0 | VELCO | | New Haven |
| Location 3413 | 4.4 | 4.0 | VELCO | | New Haven |
| Location 3414 | 3.5 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3415 | 3.1 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3416 | 3.3 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3417 | 3.1 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3418 | 3.0 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3419 Location 3420 | 3.1 | 4.0 4.0 | VELCO VELCO | Red/Silver Maple Green Ash Swamp Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3421 | 3.4 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3422 | 3.4 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3423 | 3.2 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| | | | · | · · · | |

| Location 3124 3.8 | Generic | | Doguirod | | | |
|--|---------------|--------------|-------------------|-----------------------|----------------------------------|-----------|
| Incident 14 15 15 15 15 15 15 15 | | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Location 3425 3.8 4.0 VELCO Red/Silver Maple Green Ant Swamp New Haven Location 3427 4.1 4.0 VELCO Red/Silver Maple Green Ant Swamp New Haven Location 3428 4.4 4.0 VELCO New Haven Location 3428 4.3 4.0 VELCO New Haven Location 3429 4.3 4.0 VELCO New Haven Location 3429 4.3 4.0 VELCO New Haven Location 3431 4.1 4.0 VELCO New Haven Location 3431 4.1 4.0 VELCO New Haven Location 3433 4.1 4.0 VELCO New Haven Location 3433 4.1 4.0 VELCO New Haven Location 3434 4.1 4.0 VELCO New Haven Location 3434 4.1 4.0 VELCO New Haven Location 3435 4.1 4.0 VELCO New Haven Location 3439 4.1 4.0 VELCO New Haven Location 3439 4.1 4.0 VELCO New Haven Location 3438 4.1 4.0 VELCO New Haven Location 3438 4.1 4.0 VELCO New Haven Location 3434 4.1 4.0 VELCO New Haven Location 3444 4.0 4.0 VELCO New Haven Location 3444 4.0 4.0 VELCO New Haven Location 3444 4.0 4.0 VELCO New Haven Location 3445 4.0 4.0 VELCO New Haven Location 3446 4.0 4.0 VELCO New Ha | | | | | | |
| DIGITION 3426 3.6 4.0 VELCO Red/Siver Maple Green Ash Swamp Rev Haven Digition 3428 4.1 4.0 VELCO Rev Haven Digition 3428 4.3 4.0 VELCO Rev Haven Digition 3428 4.3 4.0 VELCO Rev Haven Digition 3430 4.1 4.0 VELCO Rev Haven Digition 3431 4.1 4.0 VELCO Rev Haven Digition 3431 4.1 4.0 VELCO Rev Haven Digition 3432 4.3 4.0 VELCO Rev Haven Digition 3432 4.3 4.0 VELCO Rev Haven Digition 3433 4.3 4.0 VELCO Rev Haven Digition 3434 4.1 4.0 VELCO Rev Haven Digition 3434 4.1 4.0 VELCO Rev Haven Digition 3434 4.1 4.0 VELCO Rev Haven Digition 3437 4.3 4.0 VELCO Rev Haven Digition 3439 4.1 4.0 VELCO Rev Haven Digition 3440 4.5 4.0 VELCO Rev Haven Digition 3441 4.1 4.0 VELCO Rev Haven Digition 3442 4.1 4.0 VELCO Rev Haven Digition 3443 4.3 4.0 VELCO Rev Haven Digition 3445 4.0 4.0 4.0 VELCO Rev Haven Digition 3445 4.0 4.0 VELCO | | | | | | |
| | | | | | | |
| Location 3428 4.4 4.0 VELCO New Haven New Haven Location 3430 4.1 4.0 VELCO New Haven New Haven Location 3431 4.1 4.0 VELCO New Haven Location 3432 4.5 4.0 VELCO New Haven Location 3432 4.5 4.0 VELCO New Haven Location 3433 3.3 4.0 VELCO New Haven Location 3433 3.3 4.0 VELCO New Haven Location 3434 4.1 4.0 VELCO New Haven New Haven Location 3435 4.1 4.0 VELCO New Haven New Haven Location 3436 4.1 4.0 VELCO New Haven New Haven Location 3436 4.1 4.0 VELCO New Haven New Haven Location 3437 3.3 4.0 VELCO New Haven New Haven Location 3438 4.1 4.0 VELCO New Haven Location 3440 4.5 4.0 VELCO New Haven Location 3440 4.1 4.1 VELCO New Haven Location 3440 4.1 4.1 VELCO New Haven Location 3441 4.1 4.0 VELCO New Haven Location 3441 4.1 4.0 VELCO New Haven Location 3441 4.1 4.0 VELCO New Haven Location 3444 4.0 4.0 VELCO New Haven Location 3444 4.0 4.0 VELCO New Haven Location 3444 4.0 4.0 VELCO New Haven Location 3445 4.0 4.0 VELCO New Haven New Haven Location 3445 3.1 4.0 VELCO Reg/Silver Maple Green Ash Swamp New Haven Location 3445 3.1 4.0 VELCO Reg/Silver Maple Green Ash Swamp New Haven New Haven Location 3455 3.3 4.0 VELCO Reg/Silver Maple Green Ash Swamp New Haven New Hav | | | | | Rea/Silver Maple Green Ash Swamp | |
| Location 3429 4.3 4.0 VELCO New Haven New Haven Location 3431 4.1 4.0 VELCO New Haven New | | | | | | |
| Joseph 1942 | | | | | | |
| Lication 3431 4.1 4.0 VELCO New Haven New Haven Lication 3433 4.3 4.0 VELCO New Haven New | | | | | | |
| Location 3433 | | | | | | |
| Location 3435 4,1 4.0 VELCO New Haven New Ha | Location 3432 | 4.5 | 4.0 | VELCO | | New Haven |
| Location 3435 | Location 3433 | 4.3 | 4.0 | VELCO | | New Haven |
| | Location 3434 | 4.1 | 4.0 | VELCO | | New Haven |
| Incation 3437 | Location 3435 | | | | | New Haven |
| Incation 3438 | | | | | | |
| Discription 3439 | | | | | | |
| Decation 3440 | | | | | | |
| Incation 3441 | | | | | | |
| Discrition 3442 | | | | | | |
| Decation 3443 | | | | | | |
| Decation 3444 | | | | | | |
| Discrition 3445 | | | | | | |
| | | | | | | |
| Decation 3447 | | | | | | |
| Location 3448 3.7 | | | | | | |
| Location 3449 | | | | | Red/Silver Maple Green Ash Swamp | |
| | | | | | | |
| Location 3452 3.5 | Location 3450 | 3.4 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | |
| Decation 3453 3.5 | Location 3451 | 3.1 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3454 | Location 3452 | 3.5 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Location 3455 5.3 4.0 VELCO/Agriculture/Landowner New Haven Location 3456 5.3 4.0 Agriculture/Landowner New Haven Location 3457 4.9 4.0 Agriculture/Landowner New Haven Location 3458 4.9 4.0 Agriculture/Landowner New Haven Location 3459 4.8 4.0 Agriculture/Landowner New Haven Location 3460 4.1 4.0 Agriculture/Landowner New Haven Location 3461 4.4 4.0 Agriculture/Landowner New Haven Location 3462 4.7 4.0 Agriculture/Landowner New Haven Location 3463 4.0 4.0 Agriculture/Landowner New Haven Location 3464 4.8 4.0 Agriculture/Landowner New Haven Location 3465 4.4 4.0 Agriculture/Landowner New Haven Location 3466 4.7 4.0 Agriculture/Landowner New Haven Location 3476 4.1 4.0 Agriculture/Landowner New Haven | Location 3453 | 3.5 | 4.0 | VELCO | Red/Silver Maple Green Ash Swamp | New Haven |
| Decation 3455 5.3 4.0 Agriculture/Landowner New Haven | Location 3454 | 4.4 | 4.0 | | | New Haven |
| Location 3457 4.9 4.0 Agriculture/Landowner New Haven | Location 3455 | | | | | New Haven |
| Location 3458 4.9 4.0 Agriculture/Landowner New Haven Location 3459 4.8 4.0 Agriculture/Landowner New Haven Location 3460 4.1 4.0 Agriculture/Landowner New Haven Location 3461 4.4 4.0 Agriculture/Landowner New Haven Location 3462 4.7 4.0 Agriculture/Landowner New Haven Location 3463 4.0 4.0 Agriculture/Landowner New Haven Location 3464 4.8 4.0 Agriculture/Landowner New Haven Location 3465 4.4 4.0 Agriculture/Landowner New Haven Location 3466 4.7 4.0 Agriculture/Landowner New Haven Location 3467 4.1 4.0 Agriculture/Landowner New Haven Location 3469 4.4 4.0 Agriculture/Landowner New Haven Location 3470 4.7 4.0 Agriculture/Landowner New Haven Location 3471 4.4 4.0 Agriculture/Landowner New Haven | | | | | | |
| Location 3459 4.8 | | | | <u> </u> | | - |
| Location 3460 4.1 4.0 Agriculture/Landowner New Haven Location 3461 4.4 4.0 Agriculture/Landowner New Haven Location 3462 4.7 4.0 Agriculture/Landowner New Haven Location 3463 4.0 4.0 Agriculture/Landowner New Haven Location 3464 4.8 4.0 Agriculture/Landowner New Haven Location 3465 4.4 4.0 Agriculture/Landowner New Haven Location 3466 4.7 4.0 Agriculture/Landowner New Haven Location 3467 4.1 4.0 Agriculture/Landowner New Haven Location 3468 4.2 4.0 Agriculture/Landowner New Haven Location 3470 4.7 4.0 Agriculture/Landowner New Haven Location 3471 4.4 4.0 Agriculture/Landowner New Haven Location 3472 4.5 4.0 Agriculture/Landowner New Haven Location 3473 4.2 4.0 Agriculture/Landowner New Haven | | | | | | |
| Location 3461 | | | | <u> </u> | | |
| Location 3462 4.7 | | | | | | |
| Location 3463 4.0 4.0 Agriculture/Landowner New Haven | | | | , | | |
| Location 34644.84.0Agriculture/LandownerNew HavenLocation 34654.44.0Agriculture/LandownerNew HavenLocation 34664.74.0Agriculture/LandownerNew HavenLocation 34674.14.0Agriculture/LandownerNew HavenLocation 34684.24.0Agriculture/LandownerNew HavenLocation 34694.44.0Agriculture/LandownerNew HavenLocation 34704.74.0Agriculture/LandownerNew HavenLocation 34714.44.0Agriculture/LandownerNew HavenLocation 34724.54.0Agriculture/LandownerNew HavenLocation 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | <u> </u> | | |
| Location 34654.44.0Agriculture/LandownerNew HavenLocation 34664.74.0Agriculture/LandownerNew HavenLocation 34674.14.0Agriculture/LandownerNew HavenLocation 34684.24.0Agriculture/LandownerNew HavenLocation 34694.44.0Agriculture/LandownerNew HavenLocation 34704.74.0Agriculture/LandownerNew HavenLocation 34714.44.0Agriculture/LandownerNew HavenLocation 34724.54.0Agriculture/LandownerNew HavenLocation 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | | | |
| Location 3466 4.7 4.0 Agriculture/Landowner New Haven Location 3467 4.1 4.0 Agriculture/Landowner New Haven Location 3468 4.2 4.0 Agriculture/Landowner New Haven Location 3469 4.4 4.0 Agriculture/Landowner New Haven Location 3470 4.7 4.0 Agriculture/Landowner New Haven Location 3471 4.4 4.0 Agriculture/Landowner New Haven Location 3472 4.5 4.0 Agriculture/Landowner New Haven Location 3473 4.2 4.0 Agriculture/Landowner New Haven Location 3474 4.7 4.0 Agriculture/Landowner New Haven Location 3475 5.1 4.0 Agriculture/Landowner New Haven Location 3476 4.8 4.0 Agriculture/Landowner New Haven Location 3479 5.8 4.0 Agriculture/Landowner New Haven Location 3480 5.3 4.0 Agriculture/Landowner New Haven | | | | - | | |
| Location 34674.14.0Agriculture/LandownerNew HavenLocation 34684.24.0Agriculture/LandownerNew HavenLocation 34694.44.0Agriculture/LandownerNew HavenLocation 34704.74.0Agriculture/LandownerNew HavenLocation 34714.44.0Agriculture/LandownerNew HavenLocation 34724.54.0Agriculture/LandownerNew HavenLocation 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | | | |
| Location 34694.44.0Agriculture/LandownerNew HavenLocation 34704.74.0Agriculture/LandownerNew HavenLocation 34714.44.0Agriculture/LandownerNew HavenLocation 34724.54.0Agriculture/LandownerNew HavenLocation 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34795.64.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | - | | |
| Location 34704.74.0Agriculture/LandownerNew HavenLocation 34714.44.0Agriculture/LandownerNew HavenLocation 34724.54.0Agriculture/LandownerNew HavenLocation 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34795.64.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | Location 3468 | 4.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 34714.44.0Agriculture/LandownerNew HavenLocation 34724.54.0Agriculture/LandownerNew HavenLocation 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34795.64.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | - | | |
| Location 34724.54.0Agriculture/LandownerNew HavenLocation 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34795.64.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | | | |
| Location 34734.24.0Agriculture/LandownerNew HavenLocation 34744.74.0Agriculture/LandownerNew HavenLocation 34755.14.0Agriculture/LandownerNew HavenLocation 34764.84.0Agriculture/LandownerNew HavenLocation 34775.34.0Agriculture/LandownerNew HavenLocation 34785.84.0Agriculture/LandownerNew HavenLocation 34795.64.0Agriculture/LandownerNew HavenLocation 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | | | |
| Location 3474 4.7 4.0 Agriculture/Landowner New Haven Location 3475 5.1 4.0 Agriculture/Landowner New Haven Location 3476 4.8 4.0 Agriculture/Landowner New Haven Location 3477 5.3 4.0 Agriculture/Landowner New Haven Location 3478 5.8 4.0 Agriculture/Landowner New Haven Location 3479 5.6 4.0 Agriculture/Landowner New Haven Location 3480 5.3 4.0 Agriculture/Landowner New Haven Location 3481 5.6 4.0 Agriculture/Landowner New Haven Location 3482 5.7 4.0 Agriculture/Landowner New Haven Location 3483 5.5 4.0 Agriculture/Landowner New Haven | | | | - | | |
| Location 3475 5.1 4.0 Agriculture/Landowner New Haven Location 3476 4.8 4.0 Agriculture/Landowner New Haven Location 3477 5.3 4.0 Agriculture/Landowner New Haven Location 3478 5.8 4.0 Agriculture/Landowner New Haven Location 3479 5.6 4.0 Agriculture/Landowner New Haven Location 3480 5.3 4.0 Agriculture/Landowner New Haven Location 3481 5.6 4.0 Agriculture/Landowner New Haven Location 3482 5.7 4.0 Agriculture/Landowner New Haven Location 3483 5.5 4.0 Agriculture/Landowner New Haven | | | | <u> </u> | | |
| Location 3476 4.8 4.0 Agriculture/Landowner New Haven Location 3477 5.3 4.0 Agriculture/Landowner New Haven Location 3478 5.8 4.0 Agriculture/Landowner New Haven Location 3479 5.6 4.0 Agriculture/Landowner New Haven Location 3480 5.3 4.0 Agriculture/Landowner New Haven Location 3481 5.6 4.0 Agriculture/Landowner New Haven Location 3482 5.7 4.0 Agriculture/Landowner New Haven Location 3483 5.5 4.0 Agriculture/Landowner New Haven | | | | | | |
| Location 3477 5.3 4.0 Agriculture/Landowner New Haven Location 3478 5.8 4.0 Agriculture/Landowner New Haven Location 3479 5.6 4.0 Agriculture/Landowner New Haven Location 3480 5.3 4.0 Agriculture/Landowner New Haven Location 3481 5.6 4.0 Agriculture/Landowner New Haven Location 3482 5.7 4.0 Agriculture/Landowner New Haven Location 3483 5.5 4.0 Agriculture/Landowner New Haven | | | | , | | |
| Location 3478 5.8 4.0 Agriculture/Landowner New Haven Location 3479 5.6 4.0 Agriculture/Landowner New Haven Location 3480 5.3 4.0 Agriculture/Landowner New Haven Location 3481 5.6 4.0 Agriculture/Landowner New Haven Location 3482 5.7 4.0 Agriculture/Landowner New Haven Location 3483 5.5 4.0 Agriculture/Landowner New Haven | | | | - | | |
| Location 3479 5.6 4.0 Agriculture/Landowner New Haven Location 3480 5.3 4.0 Agriculture/Landowner New Haven Location 3481 5.6 4.0 Agriculture/Landowner New Haven Location 3482 5.7 4.0 Agriculture/Landowner New Haven Location 3483 5.5 4.0 Agriculture/Landowner New Haven | | | | - | | |
| Location 34805.34.0Agriculture/LandownerNew HavenLocation 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | <u> </u> | | |
| Location 34815.64.0Agriculture/LandownerNew HavenLocation 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | _ | | |
| Location 34825.74.0Agriculture/LandownerNew HavenLocation 34835.54.0Agriculture/LandownerNew Haven | | | | <u> </u> | | |
| Location 3483 5.5 4.0 Agriculture/Landowner New Haven | | | | _ | | |
| Location 3484 5.2 4.0 Agriculture/Landowner New Haven | Location 3483 | 5.5 | 4.0 | Agriculture/Landowner | | New Haven |
| | Location 3484 | 5.2 | 4.0 | Agriculture/Landowner | | New Haven |

| Generic | | Required | | | |
|--------------------------------|--------------|----------|--|---|-----------|
| Location | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Identifier # Location 3485 | 5.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3486 | 5.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3487 | 5.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3488 | 5.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3489 | 6.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3490 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 3491 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 3492 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 3493 | 6.2 | 4.0 | Agriculture | | New Haven |
| Location 3494 | 6.2 | 4.0 | Agriculture | | New Haven |
| Location 3495 | 6.3 | 4.0 | Agriculture | | New Haven |
| Location 3496 | 6.3 | 4.0 | Agriculture | | New Haven |
| Location 3497 | 5.5 | 4.0 | Agriculture | | New Haven |
| Location 3498 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 3499 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 3500 | 6.9 | 4.0 | Agriculture | | New Haven |
| Location 3501 | 7.0 | 4.0 | Agriculture | | New Haven |
| Location 3502 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 3503 Location 3504 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 3504 | 5.8 6.0 | 4.0 | Agriculture | | New Haven |
| Location 3505 | 5.8 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 3507 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 3508 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 3509 | 6.3 | 4.0 | Agriculture | | New Haven |
| Location 3510 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 3511 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3512 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3513 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3514 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3515 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3516 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3517 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 3518 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 3519 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 3520 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3521 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 3522 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 3523 Location 3524 | 4.9 4.4 | 4.0 | Agriculture VELCO/Agriculture | | New Haven |
| Location 3525 | 4.4 | | VELCO/Agriculture | | New Haven |
| Location 3526 | 5.4 | | VELCO/Agriculture | | New Haven |
| Location 3527 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3528 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3529 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3530 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3531 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3532 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3533 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3534 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3535 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3536 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3537 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3538 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3539 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3540 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3541 | HDD | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. Rased on HDD Profile, minimum depth is at least 4.0 feet | New Haven |
| Location 3542 | HDD | 4.0 | vLLCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. Crossing ID #113, 2012-TB-LOC-4 (P) (Little Otter Creek), Estimated location | New Haven |
| Location 3543 | HDD | 7.0 | DEC Stream | for Depth from HDD Profile (45.0 feet). | New Haven |
| Location 3544 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| 20000.011 00 17 | | | | 1 | |

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| Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Identifier # | | Depth | | | |
| Location 3545 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3546 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3547 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3548 Location 3549 | HDD HDD | 4.0 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3550 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3551 | HDD | 4.0 | VELCO/Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3552 | HDD | 5.0 | Road Crossing | Plank Road. Estimated location for Depth from HDD Profile (35.0 feet). | New Haven |
| Location 3553 | HDD | | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3554 | HDD | 4.0 | VELCO/Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3555 | 6.7 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3556 | 4.7 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3557 | 4.1 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3558 | 4.3 | 4.0 | Agriculture | | New Haven |
| Location 3559 | 4.2 | | Agriculture | | New Haven |
| Location 3560 | 4.5 | | Agriculture | | New Haven |
| Location 3561 | 4.8 | | Agriculture | | New Haven |
| Location 3562 Location 3563 | 4.7 4.7 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 3564 | 4.7 | | Agriculture | | New Haven |
| Location 3565 | 4.2 | | Agriculture | | New Haven |
| Location 3566 | 4.4 | | Agriculture | | New Haven |
| Location 3567 | 4.2 | | Agriculture | | New Haven |
| Location 3568 | 4.3 | 4.0 | Agriculture | | New Haven |
| Location 3569 | 4.4 | 4.0 | Agriculture | | New Haven |
| Location 3570 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3571 | 5.3 | 3.0 | PHMSA | | New Haven |
| Location 3572 | 5.0 | 3.0 | PHMSA | | New Haven |
| Location 3573 | 5.0 | 3.0 | PHMSA | | New Haven |
| Location 3574 | 4.0 | 3.0 | PHMSA | | New Haven |
| Location 3575 Location 3576 | 4.3 | 3.0 | PHMSA PHMSA | | New Haven |
| Location 3577 | 4.2 | 3.0 | PHMSA | | New Haven |
| Location 3578 | 4.0 | 3.0 | PHMSA | | New Haven |
| Location 3579 | 4.4 | 3.0 | PHMSA | | New Haven |
| Location 3580 | 4.0 | 3.0 | PHMSA | | New Haven |
| Location 3581 | 4.0 | 3.0 | PHMSA | | New Haven |
| Location 3582 | 4.2 | 3.0 | PHMSA | | New Haven |
| Location 3583 | 4.2 | 3.0 | PHMSA | | New Haven |
| Location 3584 | 4.1 | | Agriculture | | New Haven |
| Location 3585 | 4.3 | | Agriculture | | New Haven |
| Location 3586 | 4.0 | | Agriculture | | New Haven |
| Location 3587 | 4.6 | | Agriculture | | New Haven |
| Location 3588 Location 3589 | 7.0 5.7 | | Agriculture Agriculture | | New Haven |
| Location 3590 | 5.4 | | Agriculture | | New Haven |
| Location 3591 | 6.4 | | Agriculture | | New Haven |
| Location 3592 | 5.3 | | Agriculture | | New Haven |
| Location 3593 | 5.0 | | Agriculture | | New Haven |
| Location 3594 | 5.3 | | Agriculture | | New Haven |
| Location 3595 | 5.6 | | Agriculture | | New Haven |
| Location 3596 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3597 | 5.1 | | Agriculture | | New Haven |
| Location 3598 | 4.7 | | Agriculture | | New Haven |
| Location 3599 | 4.5 | | Agriculture | | New Haven |
| Location 3600 | 5.0 | | Agriculture | | New Haven |
| Location 3601 | 4.4 | | Agriculture | | New Haven |
| Location 3602 | 4.3 | | Agriculture | | New Haven |
| Location 3603 | 4.6 | | Agriculture | | New Haven |
| Location 3604 Location 3605 | 4.5 4.6 | | Agriculture Agriculture | | New Haven |
| LUCATION 3003 | 4.0 | 4.0 | Agriculture | | INCM HAVEIL |

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|--------------------------------|--------------|-------------------|-------------------------|-------|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 3606 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3607 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 3608 Location 3609 | 5.1 5.0 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 3610 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 3611 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3612 | 4.3 | 4.0 | Agriculture | | New Haven |
| Location 3613 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 3614 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3615 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 3616 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3617 | 4.3 | 4.0 | Agriculture | | New Haven |
| Location 3618 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 3619 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 3620 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3621 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 3622 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 3623 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 3624 | 4.4 | 4.0 | Agriculture | | New Haven |
| Location 3625 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 3626 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3627 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 3628 | 4.0 | 4.0 | Agriculture | | New Haven |
| Location 3629 Location 3630 | 4.1 4.2 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 3631 | 4.2 | 4.0 | Agriculture | | New Haven New Haven |
| Location 3632 | 5.4 | 4.0 | Agriculture | | New Haven |
| Location 3633 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 3634 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3635 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3636 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 3637 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3638 | 5.4 | 4.0 | Agriculture | | New Haven |
| Location 3639 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 3640 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3641 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 3642 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3643 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3644 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3645 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3646 | 4.8 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 3647 | 4.7 4.6 | 4.0 | | | New Haven |
| Location 3648 Location 3649 | 4.5 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 3650 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 3651 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 3652 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3653 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 3654 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3655 | 4.4 | 4.0 | Agriculture | | New Haven |
| Location 3656 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 3657 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 3658 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3659 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 3660 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 3661 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3662 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3663 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 3664 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 3665 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 3666 | 5.2 | 4.0 | Agriculture | | New Haven |

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|--------------------------------|--------------|-------------------|---|--|-----------|
| Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Location 3667 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 3668 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 3669 | 7.0 | 4.0 | Agriculture | Quarry Road - Road Crossing nearby this weld, Pipeline locator indicated a depth of 5.5 feet in roadway. 5-foot minimum required under road. | New Haven |
| Location 3670 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 3671 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 3672 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3673 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3674 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 3675 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3676 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 3677 | 5.5 | 4.0 | Agriculture | | New Haven |
| Location 3678 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 3679 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 3680 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 3681 | 4.7 | 3.0 | PHMSA | | New Haven |
| Location 3682 | 4.3 | 3.0 | PHMSA | | New Haven |
| Location 3683 | 4.6 | 3.0 | PHMSA | | New Haven |
| Location 3684 | 6.1 | 3.0 | PHMSA | | New Haven |
| Location 3685 | 6.1 | 3.0 | PHMSA | | New Haven |
| Location 3686 | 5.1 | 3.0 | PHMSA | | New Haven |
| Location 3687 | 4.7 | 3.0 | PHMSA | | New Haven |
| Location 3688 | 5.8 | 3.0 | PHMSA | | New Haven |
| Location 3689 | 6.0 | 4.0 | Landowner | | New Haven |
| Location 3690 | 5.8 | 4.0 | Landowner | | New Haven |
| Location 3691 | 4.8 | 4.0 | Landowner | | New Haven |
| Location 3692 | 5.4 | 4.0 | Landowner | | New Haven |
| Location 3693 | 5.0 | 4.0 | Landowner | | New Haven |
| Location 3694 | 4.6 | 4.0 | Landowner | | New Haven |
| Location 3695 | 4.8 | 4.0 | Landowner | | New Haven |
| Location 3696 | 6.0 | 4.0 | Landowner | | New Haven |
| Location 3697 | 5.7 | 4.0 | Landowner | | New Haven |
| Location 3698 | 5.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3699 | 5.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3700 | 5.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3701 Location 3702 | 4.8 4.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3702 | 4.4 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | New Haven |
| | 4.7 | 4.0 | Agriculture/Landowner | | |
| Location 3704 Location 3705 | 4.0 | 4.0 | Landowner | | New Haven |
| Location 3705 | 4.2 | | Landowner | | New Haven |
| Location 3707 | 4.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3707 | 4.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3709 | 4.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3710 | 4.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3711 | 4.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3712 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3713 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3714 | 4.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3715 | 4.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3716 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3717 | 4.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3718 | 4.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3719 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3720 | 4.2 | 4.0 | Landowner | | New Haven |
| Location 3721 | 4.6 | 4.0 | Landowner | | New Haven |
| Location 3722 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3723 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3724 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3725 | 4.7 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3726 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
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| Location 3722 4.5 | Generic | | Bowning d | | 1 | 1 |
|--|---------------|--------------|-------------------|-----------------------|-------|--|
| Secretary 3272 4.6 4.0 Agriculture/Landowner New Haven | | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Location 3728 5.0 4.0 Agriculture/Landowner New Haven | | 16 | 4.0 | Agriculture/Landowner | | New Haven |
| | | | | | | |
| Descriptor 3731 4.2 4.0 Agricultura/Landowner New Haven | | | • | | |
| Location 3732 4.2 4.0 Agriculture/Landowner New Haven | Location 3730 | 5.4 | 4.0 | Landowner | | New Haven |
| Joseph 1973 3.4 4.0 4.0 Agricultura/Landowner New Haven New Have | Location 3731 | 4.2 | 4.0 | Agriculture/Landowner | | New Haven |
| | Location 3732 | 4.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Deathon 3735 4.8 4.0 Agriculture/Landowner New Haven N | Location 3733 | | 4.0 | , | | New Haven |
| | | | | · . | | |
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| Location 3738 4.4 4.0 Agriculture/Landowner New Haven | | | | · . | | |
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| Decation 3741 | | | | · . | | |
| New Haven Ne | | | | | | _ |
| Doctorio 3743 | | | | | | |
| Doctors 3745 4.8 | Location 3743 | | 4.0 | Agriculture/Landowner | | New Haven |
| | Location 3744 | 4.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Decation 3747 5.0 4.0 Agriculture/Landowner New Haven | Location 3745 | 4.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3748 5.1 | Location 3746 | | 4.0 | Agriculture/Landowner | | New Haven |
| | | | | · . | | |
| Location 3750 | | | | | | |
| Location 3751 | | | | · . | | _ |
| Location 3752 | | | | · . | | |
| Decation 3753 5.0 4.0 Agriculture/Landowner New Haven | | | | | | |
| Location 3754 4.9 4.0 Agriculture/Landowner New Haven Location 3755 5.2 4.0 Agriculture/Landowner New Haven New Haven Location 3756 5.6 4.0 Agriculture/Landowner New Haven Location 3757 5.3 4.0 Agriculture/Landowner New Haven New Haven Location 3758 5.6 4.0 Agriculture/Landowner New Haven Location 3759 9.4 4.0 Agriculture/Landowner New Haven Location 3760 6.0 4.0 Agriculture/Landowner New Haven Location 3761 5.7 4.0 Agriculture/Landowner New Haven Location 3761 5.7 4.0 Agriculture/Landowner New Haven Location 3762 5.9 4.0 Agriculture/Landowner New Haven Location 3764 6.1 4.0 Agriculture/Landowner New Haven Location 3764 6.4 4.0 Agriculture/Landowner New Haven Location 3765 5.6 4.0 Agriculture/Landowner New Haven Location 3765 5.6 4.0 Agriculture/Landowner New Haven Location 3765 5.6 4.0 Agriculture/Landowner New Haven Location 3767 5.3 4.0 Agriculture/Landowner New Haven Location 3770 4.9 4.0 Agriculture/Landowner New Haven Location 3771 4.9 4.0 Agriculture/Landowner New Haven Location 3772 4.3 4.0 Agriculture/Landowner New Haven Location 3773 5.0 4.0 Agriculture/Landowner New Haven Location 3775 5.6 4.0 Agriculture/Landowner New Haven Location 3785 5.4 4.0 Agricult | | | | · . | | |
| Docation 3755 5.2 | | | | · . | | |
| Decation 3756 5.6 4.0 Agriculture/Landowner New Haven | | | | · . | | _ |
| Location 3757 5.3 4.0 Agriculture/Landowner New Haven | | | | · . | | |
| Location 3759 9.4 4.0 Agriculture/Landowner New Haven | | | | | | |
| Location 3760 6.0 4.0 Agriculture/Landowner New Haven Location 3761 5.7 4.0 Agriculture/Landowner New Haven Location 3762 5.9 4.0 Agriculture/Landowner New Haven Location 3763 6.1 4.0 Agriculture/Landowner New Haven Location 3764 6.4 4.0 Agriculture/Landowner New Haven Location 3765 5.6 4.0 Agriculture/Landowner New Haven Location 3766 5.2 4.0 Agriculture/Landowner New Haven Location 3766 5.2 4.0 Agriculture/Landowner New Haven Location 3767 5.3 4.0 Agriculture/Landowner New Haven Location 3768 5.4 4.0 Agriculture/Landowner New Haven Location 3769 5.4 4.0 Agriculture/Landowner New Haven Location 3770 4.9 4.0 Agriculture/Landowner New Haven Location 3771 4.9 4.0 Agriculture/Landowner New Haven Location 3772 4.3 4.0 Agriculture/Landowner New Haven Location 3773 5.0 4.0 Agriculture/Landowner New Haven Location 3775 5.6 4.0 Agriculture/Landowner New Haven Location 3775 5.6 4.0 Agriculture/Landowner New Haven Location 3775 5.8 4.0 Agriculture/Landowner New Haven Location 3777 5.8 4.0 Agriculture/Landowner New Haven Location 3777 5.8 4.0 Agriculture/Landowner New Haven Location 3778 5.7 4.0 Agriculture/Landowner New Haven Location 3779 5.6 4.0 Agriculture/Landowner New Haven Location 3779 5.6 4.0 Agriculture/Landowner New Haven Location 3778 5.1 4.0 Agriculture/Landowner New Haven Location 3780 5.1 4.0 Agriculture/Landowner New Haven Location 3781 4.3 4.0 Agriculture/Landowner New Haven Location 3782 4.1 4.0 Agriculture/Landowner New Haven Location 3783 4.4 4.0 Agriculture/Landowner New Haven | Location 3758 | 5.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3761 5.7 | Location 3759 | 9.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3762 5.9 | Location 3760 | 6.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3763 6.1 4.0 Agriculture/Landowner New Haven Location 3764 6.4 4.0 Agriculture/Landowner New Haven Location 3765 5.6 4.0 Agriculture/Landowner New Haven Location 3766 5.2 4.0 Agriculture/Landowner New Haven Location 3767 5.3 4.0 Agriculture/Landowner New Haven Location 3768 5.4 4.0 Agriculture/Landowner New Haven Location 3769 5.4 4.0 Agriculture/Landowner New Haven Location 3770 4.9 4.0 Agriculture/Landowner New Haven Location 3771 4.9 4.0 Agriculture/Landowner New Haven Location 3772 4.3 4.0 Agriculture/Landowner New Haven Location 3773 5.0 4.0 Agriculture/Landowner New Haven Location 3775 5.6 4.0 Agriculture/Landowner New Haven Location 3775 5.6 4.0 Agriculture/Landowner New Haven | Location 3761 | | 4.0 | Agriculture/Landowner | | New Haven |
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| Location 37695.44.0Agriculture/LandownerNew HavenLocation 37704.94.0Agriculture/LandownerNew HavenLocation 37714.94.0Agriculture/LandownerNew HavenLocation 37724.34.0Agriculture/LandownerNew HavenLocation 37735.04.0Agriculture/LandownerNew HavenLocation 37745.34.0Agriculture/LandownerNew HavenLocation 37755.64.0Agriculture/LandownerNew HavenLocation 37765.84.0Agriculture/LandownerNew HavenLocation 37775.84.0Agriculture/LandownerNew HavenLocation 37785.74.0Agriculture/LandownerNew HavenLocation 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | | | |
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| Location 37714.94.0Agriculture/LandownerNew HavenLocation 37724.34.0Agriculture/LandownerNew HavenLocation 37735.04.0Agriculture/LandownerNew HavenLocation 37745.34.0Agriculture/LandownerNew HavenLocation 37755.64.0Agriculture/LandownerNew HavenLocation 37765.84.0Agriculture/LandownerNew HavenLocation 37775.84.0Agriculture/LandownerNew HavenLocation 37785.74.0Agriculture/LandownerNew HavenLocation 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | <u> </u> | | |
| Location 37735.04.0Agriculture/LandownerNew HavenLocation 37745.34.0Agriculture/LandownerNew HavenLocation 37755.64.0Agriculture/LandownerNew HavenLocation 37765.84.0Agriculture/LandownerNew HavenLocation 37775.84.0Agriculture/LandownerNew HavenLocation 37785.74.0Agriculture/LandownerNew HavenLocation 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | <u> </u> | | |
| Location 37745.34.0Agriculture/LandownerNew HavenLocation 37755.64.0Agriculture/LandownerNew HavenLocation 37765.84.0Agriculture/LandownerNew HavenLocation 37775.84.0Agriculture/LandownerNew HavenLocation 37785.74.0Agriculture/LandownerNew HavenLocation 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | Location 3772 | 4.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 37755.64.0Agriculture/LandownerNew HavenLocation 37765.84.0Agriculture/LandownerNew HavenLocation 37775.84.0Agriculture/LandownerNew HavenLocation 37785.74.0Agriculture/LandownerNew HavenLocation 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | Location 3773 | 5.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 37765.84.0Agriculture/LandownerNew HavenLocation 37775.84.0Agriculture/LandownerNew HavenLocation 37785.74.0Agriculture/LandownerNew HavenLocation 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | · . | | |
| Location 37775.84.0Agriculture/LandownerNew HavenLocation 37785.74.0Agriculture/LandownerNew HavenLocation 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | _ | | |
| Location 3778 5.7 4.0 Agriculture/Landowner New Haven Location 3779 5.6 4.0 Agriculture/Landowner New Haven Location 3780 5.1 4.0 Agriculture/Landowner New Haven Location 3781 4.3 4.0 Agriculture/Landowner New Haven Location 3782 4.1 4.0 Agriculture/Landowner New Haven Location 3783 4.4 4.0 Agriculture/Landowner New Haven Location 3784 4.8 4.0 Agriculture/Landowner New Haven Location 3785 4.6 4.0 Agriculture/Landowner New Haven Location 3786 4.5 4.0 Agriculture/Landowner New Haven | | | | <u> </u> | | |
| Location 37795.64.0Agriculture/LandownerNew HavenLocation 37805.14.0Agriculture/LandownerNew HavenLocation 37814.34.0Agriculture/LandownerNew HavenLocation 37824.14.0Agriculture/LandownerNew HavenLocation 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | · . | | |
| Location 3780 5.1 4.0 Agriculture/Landowner New Haven Location 3781 4.3 4.0 Agriculture/Landowner New Haven Location 3782 4.1 4.0 Agriculture/Landowner New Haven Location 3783 4.4 4.0 Agriculture/Landowner New Haven Location 3784 4.8 4.0 Agriculture/Landowner New Haven Location 3785 4.6 4.0 Agriculture/Landowner New Haven Location 3786 4.5 4.0 Agriculture/Landowner New Haven | | | | <u> </u> | | |
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| Location 3782 4.1 4.0 Agriculture/Landowner New Haven Location 3783 4.4 4.0 Agriculture/Landowner New Haven Location 3784 4.8 4.0 Agriculture/Landowner New Haven Location 3785 4.6 4.0 Agriculture/Landowner New Haven Location 3786 4.5 4.0 Agriculture/Landowner New Haven | | | | | + | |
| Location 37834.44.0Agriculture/LandownerNew HavenLocation 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | · . | | |
| Location 37844.84.0Agriculture/LandownerNew HavenLocation 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | | | |
| Location 37854.64.0Agriculture/LandownerNew HavenLocation 37864.54.0Agriculture/LandownerNew Haven | | | | _ | | |
| | | | 4.0 | · · | | |
| Location 3787 4.9 4.0 Agriculture/Landowner New Haven | Location 3786 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| | Location 3787 | 4.9 | 4.0 | Agriculture/Landowner | | New Haven |

| Generic | | Required | | | |
|--------------------------------|--------------|----------|-------------------------------------|---|-----------|
| Location | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | 1 |
| Location 3788 | 5.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3789 | 5.1 | | Agriculture/Landowner | | New Haven |
| Location 3790 | 5.0 | | Agriculture/Landowner | | New Haven |
| Location 3791 | 5.0 | | Agriculture/Landowner | | New Haven |
| Location 3792 | 5.0 4.9 | | Agriculture/Landowner | | New Haven |
| Location 3793 | | | Agriculture/Landowner | | New Haven |
| Location 3794 | 4.9 4.8 | | Agriculture/Landowner | | New Haven |
| Location 3795 | | | VELCO/Agriculture/Landowner | | New Haven |
| Location 3796 Location 3797 | 4.5 4.2 | 4.0 | VELCO/Agriculture VELCO/Agriculture | | New Haven |
| Location 3797 | 4.2 | | Agriculture | | New Haven |
| Location 3798 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 3800 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 3801 | 5.5 | | Agriculture | | New Haven |
| Location 3802 | 4.8 | | Agriculture | | New Haven |
| Location 3803 | 4.5 | | Agriculture | | New Haven |
| Location 3804 | 5.1 | | Agriculture | | New Haven |
| Location 3805 | 4.8 | | Agriculture | | New Haven |
| Location 3806 | 4.6 | | Agriculture | | New Haven |
| Location 3807 | 4.4 | | Agriculture | | New Haven |
| Location 3808 | 4.0 | | Agriculture | | New Haven |
| Location 3809 | 4.3 | | Agriculture | | New Haven |
| Location 3810 | 5.4 | | Agriculture | | New Haven |
| Location 3811 | 5.5 | | Agriculture | | New Haven |
| Location 3812 | 6.0 | | Agriculture | | New Haven |
| Location 3813 | 6.0 | | Agriculture | | New Haven |
| Location 3814 | 6.1 | | Agriculture | | New Haven |
| Location 3815 | 5.1 | | Agriculture | | New Haven |
| Location 3816 | 5.4 | 4.0 | Agriculture | | New Haven |
| Location 3817 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 3818 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 3819 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 3820 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 3821 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 3822 | 5.4 | 4.0 | Agriculture | | New Haven |
| Location 3823 | ROADBORE | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 3824 | ROADBORE | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 3825 | ROADBORE | 5.0 | Road Crossing | Route 17 (Main Street), Pipeline locator indicated a depth of 16.1 feet in roadway. | New Haven |
| Location 3826 | ROADBORE | 4.0 | Agriculture/Landowner | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 3827 | 5.3 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3828 | 5.4 | | VELCO/Agriculture | | New Haven |
| Location 3829 | 5.4 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3830 | 5.4 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3831 | 5.9 | | VELCO/Agriculture | | New Haven |
| Location 3832 | 5.1 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3833 | 5.4 | | VELCO/Agriculture | | New Haven |
| Location 3834 | 5.4 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3835 | 4.4 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3836 | 4.3 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3837 | 4.4 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3838 | 4.7 | | VELCO/Agriculture | | New Haven |
| Location 3839 | 5.9 | | VELCO/Agriculture | | New Haven |
| Location 3840 | 5.0 | | VELCO/Agriculture | | New Haven |
| Location 3841 | 5.4 | | VELCO/Agriculture | | New Haven |
| Location 3842 | 5.9 | | VELCO/Agriculture | | New Haven |
| Location 3843 | 5.3 | | VELCO/Agriculture | | New Haven |
| Location 3844 | 5.1 | | VELCO/Agriculture | | New Haven |
| Location 3845 | 4.5 | | VELCO/Agriculture | | New Haven |
| Location 3846 | 5.0 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3847 | 4.5 | 4.0 | VELCO/Agriculture | | New Haven |

| Location 3848 5.1 | Generic | | Danwinad | | | |
|--|---------------|--------------|-------------------|-------------------|---|-------------|
| Incidents | | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Incation 3859 5.4 | | | | NE 00 / 1 1 | | |
| | | | | | | |
| Location 3851 4.7 4.0 VFLCO/Agriculture New Haven New Haven Location 3853 4.7 4.0 VFLCO/Agriculture New Haven New Haven Location 3855 5.3 4.0 VFLCO/Agriculture New Haven Location 3855 5.3 4.0 VFLCO/Agriculture New Haven Location 3855 5.5 4.0 VFLCO/Agriculture New Haven Location 3855 4.5 4.0 VFLCO/Agriculture New Haven Location 3850 4.5 4.0 VFLCO/Agriculture New Haven Location 3850 4.1 4.0 VFLCO/Agriculture New Haven Location 3850 4.1 4.0 VFLCO/Agriculture New Haven Location 3850 4.1 4.0 VFLCO/Agriculture New Haven Location 3850 5.9 4.0 VFLCO/Agriculture New Haven Location 3850 5.8 4.0 VFLCO/Agriculture New Haven Location 3850 5.0 4.0 VFLCO/Agriculture New Haven Location 3850 5.0 4.0 VFLCO/Agriculture New Haven Location 3850 5.0 4.0 VFLCO/Agricu | | | | | | |
| Location 3852 4.7 | | | | | | |
| Location 3855 4.1 | | | | | | |
| Decision 3855 5.3 | | | | | | |
| Location 3855 5.5 4.0 VELCO/Agriculture New Haven New | | | | | | |
| Decation 3856 5.5 4.0 VELCO/Agriculture New Haven New | Location 3855 | | | | | |
| Location 3858 4.5 4.0 VELCO/Agriculture New Haven New | Location 3856 | 5.5 | | | | New Haven |
| Location 3859 4.2 4.0 VELCO/Agriculture New Haven New | Location 3857 | 6.3 | 4.0 | | | New Haven |
| Location 3860 | Location 3858 | 4.5 | | | | New Haven |
| Deachion 3861 | | | | | | New Haven |
| Decation 3862 6.5 | | | | | | |
| Decardion 3863 6.9 4.0 VELCO/Agriculture New Haven New | | | | | | |
| Deathon 3864 4.9 4.0 VELCO/Agriculture New Haven New H | | | | | | |
| Deathon 3865 5.8 4.0 VELCO/Agriculture New Haven New H | | | | | | |
| Docation 3866 5.8 | | | | | | |
| Decation 3867 6.0 4.0 VELCO/Agriculture New Haven | | | | . 0 | | |
| | | | | | | |
| Decation 3869 7,6 | | | | | | |
| Decation 3870 9.7 | | | | | | |
| Decation 3871 7.4 | | | | | Crossing ID #39, 2012-SC-CM-63 (I) | |
| Decation 3872 6.9 4.0 VELCO/Agriculture New Haven | | | | . 0 | | |
| Decation 3873 5.3 4.0 VELCO/Agriculture New Haven | | | | . 0 | | |
| Decation 3874 6.7 4.0 VELCO/Agriculture New Haven | Location 3873 | 5.3 | 4.0 | | | New Haven |
| Location 3876 | Location 3874 | 6.7 | | | | New Haven |
| Dication 3877 5.2 4.0 VELCO/Agriculture New Haven | Location 3875 | 4.6 | 4.0 | VELCO/Agriculture | | New Haven |
| Decation 3878 5.7 | Location 3876 | 4.9 | | | | New Haven |
| Docation 3879 5.4 4.0 VELCO/Agriculture New Haven | | | | | | New Haven |
| Docation 3880 | | | | | | |
| Location 3881 | | | | | | |
| Docation 3882 4.7 | | | | | | |
| Location 3883 | | | | · • | | |
| Location 3884 4.2 4.0 VELCO/Agriculture New Haven Location 3885 4.4 4.0 VELCO/Agriculture New Haven Location 3886 4.9 4.0 VELCO/Agriculture New Haven Location 3887 4.9 4.0 VELCO/Agriculture New Haven Location 3888 4.7 4.0 VELCO/Agriculture New Haven Location 3890 4.5 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3892 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3898 4.9 | | | | | | |
| Location 3885 4.4 4.0 VELCO/Agriculture New Haven Location 3886 4.9 4.0 VELCO/Agriculture New Haven Location 3887 4.9 4.0 VELCO/Agriculture New Haven Location 3888 4.7 4.0 VELCO/Agriculture New Haven Location 3890 4.5 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3892 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3999 5.3 | | | | | | |
| Location 3886 4.9 4.0 VELCO/Agriculture New Haven Location 3887 4.9 4.0 VELCO/Agriculture New Haven Location 3888 4.7 4.0 VELCO/Agriculture New Haven Location 3889 4.7 4.0 VELCO/Agriculture New Haven Location 3890 4.5 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3909 5.3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | |
| Location 3887 4.9 4.0 VELCO/Agriculture New Haven Location 3888 4.7 4.0 VELCO/Agriculture New Haven Location 3890 4.5 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3892 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3909 5.6 4.0 VELCO/Agriculture New Haven Location 3900 5.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | |
| Location 3888 4.7 4.0 VELCO/Agriculture New Haven Location 3889 4.7 4.0 VELCO/Agriculture New Haven Location 3890 4.5 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3892 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 <td< td=""><td></td><td></td><td></td><td>· •</td><td></td><td></td></td<> | | | | · • | | |
| Location 3889 4.7 4.0 VELCO/Agriculture New Haven Location 3890 4.5 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3892 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3903 5.5 <td< td=""><td>Location 3888</td><td></td><td></td><td></td><td></td><td>New Haven</td></td<> | Location 3888 | | | | | New Haven |
| Location 3890 4.5 4.0 VELCO/Agriculture New Haven Location 3891 4.7 4.0 VELCO/Agriculture New Haven Location 3892 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 <td< td=""><td>Location 3889</td><td>4.7</td><td></td><td></td><td></td><td>New Haven</td></td<> | Location 3889 | 4.7 | | | | New Haven |
| Location 3892 5.2 4.0 VELCO/Agriculture New Haven Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3990 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3907 6.2 <td< td=""><td>Location 3890</td><td>4.5</td><td>4.0</td><td>VELCO/Agriculture</td><td></td><td>New Haven</td></td<> | Location 3890 | 4.5 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3893 5.2 4.0 VELCO/Agriculture New Haven Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 <td< td=""><td>Location 3891</td><td></td><td></td><td></td><td></td><td>New Haven</td></td<> | Location 3891 | | | | | New Haven |
| Location 3894 4.9 4.0 Agriculture New Haven Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | |
| Location 3895 5.0 4.0 Agriculture New Haven Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3896 4.7 4.0 Agriculture New Haven Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3897 4.2 4.0 Agriculture New Haven Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3898 4.9 4.0 Agriculture New Haven Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3899 5.3 4.0 VELCO/Agriculture New Haven Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3900 5.6 4.0 VELCO/Agriculture New Haven Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3901 5.9 4.0 VELCO/Agriculture New Haven Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3902 6.2 4.0 VELCO/Agriculture New Haven Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3903 5.5 4.0 VELCO/Agriculture New Haven Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3904 4.6 4.0 VELCO/Agriculture New Haven Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3905 4.2 4.0 VELCO/Agriculture New Haven Location 3906 4.0 4.0 VELCO/Agriculture New Haven Location 3907 6.2 4.0 VELCO/Agriculture New Haven | | | | | | |
| Location 3907 6.2 4.0 VELCO/Agriculture New Haven | Location 3905 | 4.2 | | | | New Haven |
| | | 4.0 | | | | |
| Location 3908 ROADBORE 4.0 VELCO/Agriculture Based on adjacent measurements, the depth is at least 4.0 feet. New Haven | | | | | | |
| | Location 3908 | ROADBORE | 4.0 | VELCO/Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |

| Generic | | l . | | | I |
|--------------------------------|--------------|-------------------|-------------------------|---|-----------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # Location 3909 | ROADBORE | 5.0 | Road Crossing | Town Hill Road, Pipeline locator indicated a depth of 6.7 feet in roadway. | New Haven |
| Location 3910 | ROADBORE | 4.0 | VELCO/Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 3911 | ROADBORE | 4.0 | VELCO/Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 3912 | 5.9 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3913 | 5.8 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3914 | 5.0 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3915 | 4.7 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3916 | 5.0 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 3917 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 3918 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 3919 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 3920 | 6.8 | 4.0 | Agriculture | | New Haven |
| Location 3921 | 7.2 | 4.0 | Agriculture | | New Haven |
| Location 3922 | 7.7 7.6 | 4.0 | Agriculture | | New Haven |
| Location 3923 Location 3924 | 7.6 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 3925 | 6.8 | 4.0 | Agriculture | | New Haven |
| Location 3925 | 5.5 | 4.0 | Agriculture | | New Haven |
| Location 3927 | 6.3 | 4.0 | Agriculture | | New Haven |
| Location 3928 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3929 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3930 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3931 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3932 | HDD | 4.0 | Agriculture | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3933 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3934 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3935 | HDD | 7.0 | DEC Stream | Crossing ID #40, 2012-TB-CM-62 (P) (Tributary to Little Otter Creek), Estimated location for Depth from HDD Profile (20.0 feet). | New Haven |
| | | | | Crossing ID #40, 2012-TB-CM-62 (P) (Tributary to Little Otter Creek), | |
| Location 3936 | HDD | 7.0 | DEC Stream | Estimated location for Depth from HDD Profile (20.0 feet). | New Haven |
| Location 3937 | HDD | 7.0 | DEC Stream | Crossing ID#41, 2012-TB-CM-62a (P) (Tributary to Little Otter Creek), Estimated location for Depth from HDD Profile (20.0 feet). | New Haven |
| | | | | Crossing ID#42, 2012-TB-CM-62a (P) (Tributary to Little Otter Creek, Estimated | |
| Location 3938 | HDD | 7.0 | DEC Stream | location for Depth from HDD Profile (20.0 feet). | New Haven |
| Location 3939 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3940 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3941 | HDD | | DEC Stream | Crossing ID#43, 2012-TB-CM-62a (P) (Tributary to Little Otter Creek), Estimated location for Depth from HDD Profile (20.0 feet). | New Haven |
| Location 3942 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3943 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3944 | HDD | | Agriculture/Landowner | | New Haven |
| Location 3945 | HDD | | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3946 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 3947 | 7.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3948 | 5.2 | | Agriculture/Landowner | | New Haven |
| Location 3949 | 6.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3950 | 6.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3951 | 6.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3952 | 7.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3953 | 6.3 | | Agriculture/Landowner | | New Haven |
| Location 3954 | 5.1 | | Agriculture/Landowner | | New Haven |
| Location 3955 | 5.1 | | Agriculture/Landowner | | New Haven |
| Location 3956 | 4.7 | | Agriculture/Landowner | | New Haven |
| Location 3957 | 5.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3958 | 4.6 | | Agriculture/Landowner | | New Haven |
| Location 3959 | 5.5 | | Agriculture/Landowner | | New Haven |
| Location 3960 | 4.1 | | Agriculture/Landowner | | New Haven |
| Location 3961 | 4.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3962 | 4.1 | | Agriculture/Landowner | | New Haven |
| Location 3963 | 4.5 | | Agriculture/Landowner | | New Haven |
| Location 3964 | 5.6 | 4.0 | Agriculture/Landowner | | New Haven |

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|--------------------------------|--------------|-------------------|---|-------|------------------------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | F.0 | | And the settlement | | N |
| Location 3965 Location 3966 | 5.0 4.8 | 4.0 4.0 | Agriculture/Landowner Agriculture/Landowner | | New Haven |
| Location 3967 | 5.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3968 | 5.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3969 | 5.7 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3970 | 5.7 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3971 | 5.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3972 | 5.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3973 | 5.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3974 | 5.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3975 | 5.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3976 | 5.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3977 | 5.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3978 | 5.7 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3979 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3980 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3981 Location 3982 | 4.4 4.1 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | New Haven |
| Location 3983 | 4.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3984 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3985 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3986 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 3987 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3988 | 5.6 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3989 | 5.8 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3990 | 5.4 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3991 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3992 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3993 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3994 | 4.5 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3995 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3996 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3997 | 4.1 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 3998 Location 3999 | 4.0 4.4 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | New Haven |
| Location 4000 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4001 | 5.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4002 | 4.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4003 | 4.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4004 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4005 | 5.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4006 | 4.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4007 | 5.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4008 | 5.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4009 | 5.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4010 | 4.6 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4011 | 4.6 | 4.0 | Landowner | | New Haven |
| Location 4012 | 4.9 | 4.0 | Landowner | | New Haven |
| Location 4013 Location 4014 | 4.7 4.1 | 4.0 | Landowner Landowner | | New Haven New Haven |
| Location 4015 | 4.1 | 4.0 | Landowner | | New Haven |
| Location 4016 | 4.7 | 4.0 | Landowner | | New Haven |
| Location 4017 | 4.4 | 4.0 | Landowner | | New Haven |
| Location 4018 | 4.6 | 4.0 | Landowner | | New Haven |
| Location 4019 | 4.8 | 4.0 | Landowner | | New Haven |
| Location 4020 | 4.4 | 4.0 | Landowner | | New Haven |
| Location 4021 | 4.5 | 4.0 | Landowner | | New Haven |
| Location 4022 | 4.9 | 4.0 | Landowner | | New Haven |
| Location 4023 | 5.1 | 4.0 | Landowner | | New Haven |
| Location 4024 | 5.1 | 4.0 | Landowner | | New Haven |
| Location 4025 | 5.1 | 4.0 | Landowner | | New Haven |

| Location Actual Despit Notes Popular Notes | Generic | | | | | |
|--|---------------|--------------|----------|------------------|-------|-----------|
| International Content Inte | Location | Actual Depth | Required | Reason for Depth | Notes | Town |
| Landbowner New Haven New | | | | | | |
| Landson 6028 4.1 | | | | | | |
| Lication (ADS) 3.5 3.0 PMMSA New Haven Loration (ADS) 4.2 3.0 PMMSA New Haven Loration (ADS) 4.1 3.0 PMMSA New Haven Loration (ADS) 4.2 3.0 PMMSA New Haven Loration (ADS) 4.1 3.0 PMMSA New Haven Loration (ADS) 4.2 3.0 PMMSA New Haven Loration (ADS) 4.3 3.0 PMMSA New Haven Loration (ADS) 4.2 3.0 PMMSA New Haven Loration (ADS) 4.1 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4 | | | | | | |
| Location 4033 4.1 3.0 PHNSA New Haven New | | | | | | |
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| Location 4055 | Location 4053 | 4.3 | 3.0 | PHMSA | | New Haven |
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| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | | | |
| Location 4087 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4088 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4089 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4090 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 4091 | 4.4 | 4.0 | Agriculture | | New Haven |
| Location 4092 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 4093 Location 4094 | 4.1 4.5 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 4095 | 4.3 | 4.0 | Agriculture | | New Haven |
| Location 4096 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 4097 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 4098 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 4099 | 4.2 | 4.0 | Agriculture | | New Haven |
| Location 4100 | 4.2 | | Agriculture | | New Haven |
| Location 4101 | 4.4 | 4.0 | Agriculture | | New Haven |
| Location 4102 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 4103 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4104 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4105 | 5.5 | 4.0 | Agriculture | | New Haven |
| Location 4106 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 4107 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 4108 | 4.4 | 4.0 | Agriculture | | New Haven |
| Location 4109 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 4110 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 4111 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 4112 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 4113 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4114 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 4115 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 4116 | 6.6 | 4.0 | Agriculture | | New Haven |
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| Location 4118 | 6.5 | 4.0 | Agriculture | | New Haven |
| Location 4119 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 4120 Location 4121 | 5.3 5.5 | 4.0 | Agriculture | | New Haven |
| Location 4121 | 5.6 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 4123 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 4124 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 4125 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 4126 | 6.3 | 4.0 | Agriculture | | New Haven |
| Location 4127 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 4128 | 5.2 | | Agriculture | | New Haven |
| Location 4129 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 4130 | 6.1 | 4.0 | Agriculture | | New Haven |
| Location 4131 | 6.5 | 4.0 | Agriculture | | New Haven |
| Location 4132 | 5.7 | 4.0 | Agriculture | | New Haven |
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| Location 4136 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4137 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 4138 | 5.6 | 4.0 | Agriculture | | New Haven |
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| Location 4140 | 4.7 | 4.0 | Agriculture | | New Haven |
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| Location 4142 | 4.3 | 4.0 | Agriculture | | New Haven |
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| Location 4145 | 5.3 | 4.0 | Agriculture | | New Haven |
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| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
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| Location 4148 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 4149 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 4150 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4151 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 4152 Location 4153 | 4.2 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4154 | 5.1 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 4155 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4156 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 4157 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 4158 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4159 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4160 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4161 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4162 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 4163 | 4.5 | 4.0 | Agriculture | | New Haven |
| Location 4164 | 4.1 | 4.0 | Agriculture | | New Haven |
| Location 4165 | 4.3 | 4.0 | Agriculture | | New Haven |
| Location 4166 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 4167 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 4168 | 4.7 | 4.0 | Agriculture | | New Haven |
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| Location 4170 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 4171 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 4172 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 4173 Location 4174 | 4.3 6.3 | 4.0 4.0 | Agriculture | | New Haven New Haven |
| Location 4175 | 5.9 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 4176 | 6.0 | 4.0 | Agriculture | | New Haven |
| Location 4177 | 6.1 | 4.0 | Agriculture | | New Haven |
| Location 4178 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4179 | 4.6 | 4.0 | Agriculture | | New Haven |
| Location 4180 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 4181 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 4182 | 5.4 | 4.0 | Agriculture | | New Haven |
| Location 4183 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4184 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4185 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4186 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4187 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 4188 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4189 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4190 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 4191 Location 4192 | 4.9 5.0 | 4.0 | Agriculture Agriculture | | New Haven |
| Location 4192 Location 4193 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 4194 | 5.6 | 5.0 | Road Crossing | Hunt Road | New Haven |
| Location 4195 | 5.9 | 5.0 | Road Crossing | Hunt Road | New Haven |
| Location 4196 | 6.3 | 5.0 | Road Crossing | Hunt Road | New Haven |
| Location 4197 | 7.1 | 5.0 | Road Crossing | Hunt Road | New Haven |
| Location 4198 | 5.4 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4199 | 6.5 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4200 | 6.0 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4201 | 6.1 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4202 | 6.1 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4203 | 6.3 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4204 | 6.0 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4205 | 5.6 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4206 | 5.0 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4207 | 5.1 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4208 | 5.3 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |

| Generic | | Do ausiuo d | | | 1 |
|--------------------------------|--------------|-------------------|--|-------|------------------------|
| | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | | | V51.00 /a : 1: /: / | | |
| Location 4209 Location 4210 | 6.2 | 4.0 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4211 | 5.9 | 4.0 | VELCO/Agriculture/Landowner VELCO/Agriculture/Landowner | | New Haven |
| Location 4212 | 5.5 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4213 | 5.7 | 4.0 | VELCO/Agriculture/Landowner | | New Haven |
| Location 4214 | 5.7 | 4.0 | Landowner | | New Haven |
| Location 4215 | 5.4 | 4.0 | Landowner | | New Haven |
| Location 4216 | 5.2 | 4.0 | Landowner | | New Haven |
| Location 4217 | 6.2 | 4.0 | Landowner | | New Haven |
| Location 4218 | 5.9 | 4.0 | Landowner | | New Haven |
| Location 4219 | 6.1 | 4.0 | Landowner | | New Haven |
| Location 4220 | 5.8 | 4.0 | Landowner | | New Haven |
| Location 4221 | 5.4 | 4.0 | Landowner | | New Haven |
| Location 4222 | 5.8 | 4.0 | Landowner | | New Haven |
| Location 4223 | 6.2 | 4.0 | Landowner | | New Haven |
| Location 4224 Location 4225 | 6.1 5.6 | 4.0 | Landowner | | New Haven |
| Location 4226 | 5.6 | 4.0 | Landowner Landowner | | New Haven |
| Location 4227 | 5.6 | 4.0 | Landowner | | New Haven |
| Location 4228 | 5.9 | 4.0 | Landowner | | New Haven |
| Location 4229 | 5.8 | 4.0 | Landowner | | New Haven |
| Location 4230 | 5.3 | 4.0 | Landowner | | New Haven |
| Location 4231 | 5.5 | 4.0 | Landowner | | New Haven |
| Location 4232 | 5.2 | 4.0 | Landowner | | New Haven |
| Location 4233 | 5.2 | 4.0 | Landowner | | New Haven |
| Location 4234 | 6.1 | 4.0 | Landowner | | New Haven |
| Location 4235 | 6.2 | 4.0 | Landowner | | New Haven |
| Location 4236 | 6.7 | 4.0 | Landowner | | New Haven |
| Location 4237 | 6.5 | 4.0 | Landowner | | New Haven |
| Location 4238 | 6.4 | 4.0 | Landowner | | New Haven |
| Location 4239 | 6.0 | 4.0 | Landowner | | New Haven |
| Location 4240 | 5.9 6.2 | 4.0 4.0 | Landowner | | New Haven |
| Location 4241 Location 4242 | 6.0 | 4.0 | Landowner Landowner | | New Haven New Haven |
| Location 4243 | 6.1 | 4.0 | Landowner | | New Haven |
| Location 4244 | 5.9 | 4.0 | Landowner | | New Haven |
| Location 4245 | 5.5 | 4.0 | Landowner | | New Haven |
| Location 4246 | 6.1 | 4.0 | Landowner | | New Haven |
| Location 4247 | 6.7 | 4.0 | Landowner | | New Haven |
| Location 4248 | 6.7 | 4.0 | Landowner | | New Haven |
| Location 4249 | 6.9 | 4.0 | Landowner | | New Haven |
| Location 4250 | 6.6 | 4.0 | Landowner | | New Haven |
| Location 4251 | 6.8 | 4.0 | Landowner | | New Haven |
| Location 4252 | 7.2 | 4.0 | Landowner | | New Haven |
| Location 4253 | 6.6 | 4.0 | Landowner | | New Haven |
| Location 4254 | 6.4 | 4.0 | Landowner | | New Haven |
| Location 4255 | 6.5 | 4.0 | Landowner | | New Haven |
| Location 4256 Location 4257 | 6.3 | 4.0 | Landowner | | New Haven New Haven |
| Location 4258 | 6.2 | 4.0 | Landowner Landowner | | New Haven |
| Location 4259 | 6.2 | 4.0 | Landowner | | New Haven |
| Location 4260 | 5.7 | 4.0 | Landowner | | New Haven |
| Location 4261 | 5.2 | 4.0 | Landowner | | New Haven |
| Location 4262 | 7.2 | 4.0 | Landowner | | New Haven |
| Location 4263 | 6.6 | 4.0 | Landowner | | New Haven |
| Location 4264 | 6.1 | 4.0 | Landowner | | New Haven |
| Location 4265 | 6.2 | 4.0 | Landowner | | New Haven |
| Location 4266 | 6.3 | 4.0 | Landowner | | New Haven |
| Location 4267 | 5.8 | 4.0 | Landowner | | New Haven |
| Location 4268 | 5.8 | 4.0 | VELCO/Agriculture | | New Haven |
| Location 4269 | 5.8 | 4.0 | VELCO/Agriculture | | New Haven |

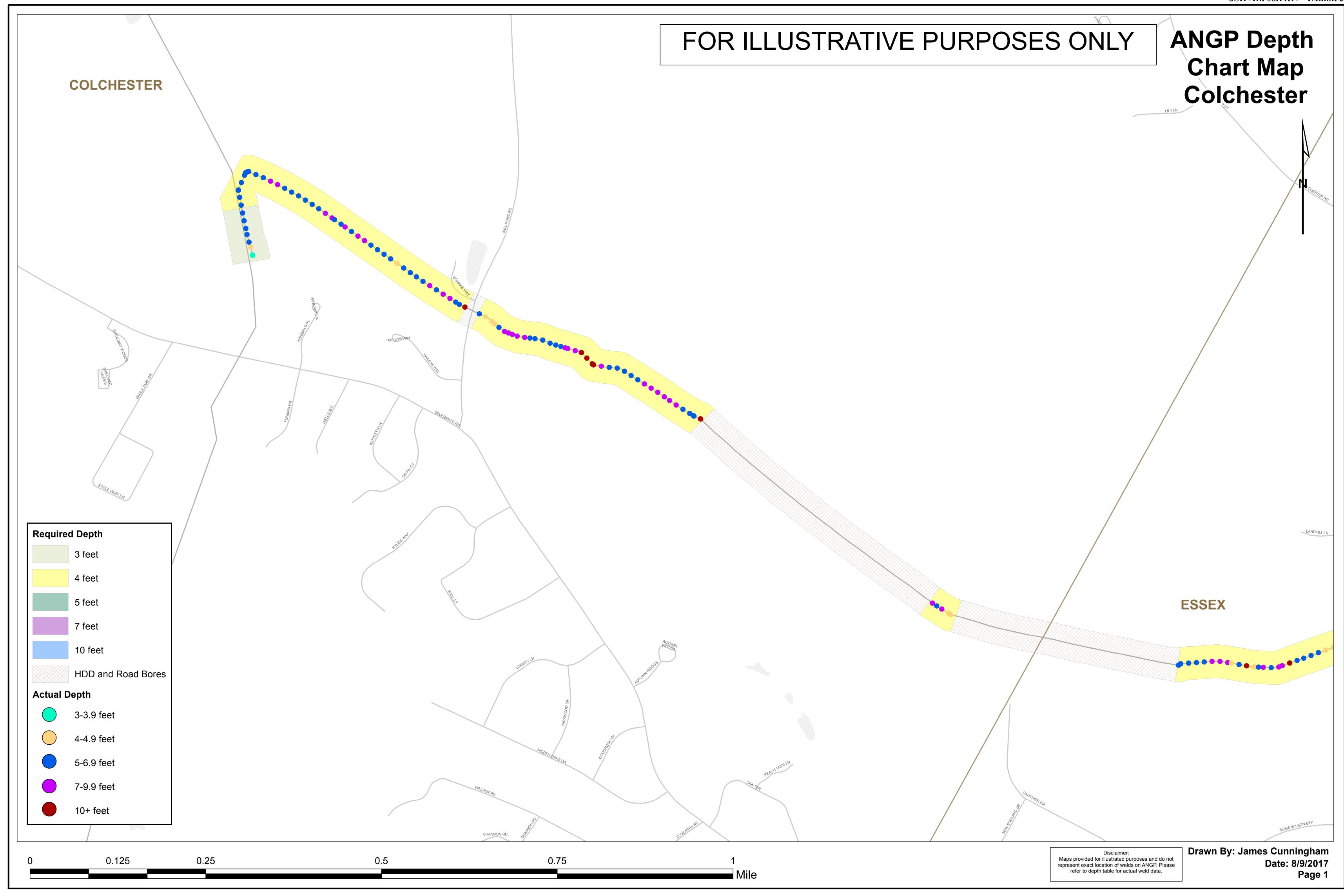
| | Generic Location | Actual Depth | Required | Reason for Depth | Notes | Town |
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| Location 4288 | Location 4280 | 5.9 | 4.0 | | | New Haven |
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| Location 43077.04.0Agriculture/LandownerNew HavenLocation 43086.94.0Agriculture/LandownerNew HavenLocation 43096.24.0Agriculture/LandownerNew HavenLocation 43106.34.0Agriculture/LandownerNew HavenLocation 43118.04.0Agriculture/LandownerNew HavenLocation 4312HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4313HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4314HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4315HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4316HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4317HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4319HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4320HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4321HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New Haven <t< td=""><td></td><td></td><td></td><td><u> </u></td><td></td><td></td></t<> | | | | <u> </u> | | |
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| Location 4317HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4318HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4319HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4320HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4321HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4322HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4323HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4324HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4325HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4326HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4328HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4329HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLo | | | | <u> </u> | | |
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| Location 4319HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4320HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4321HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4322HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4323HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4324HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4325HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4326HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4327HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4328HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4329HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New Haven | | | | | | |
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| Location 4322HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4323HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4324HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4325HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4326HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4327HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4328HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4329HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New Haven | | | | | | |
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| Location 4325HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4326HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4327HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4328HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4329HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New Haven | | | | • | | |
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| Location 4327HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4328HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4329HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New Haven | | | | - | | |
| Location 4328HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New HavenLocation 4329HDD4.0Agriculture/LandownerBased on HDD Profile, minimum depth is at least 4.0 feet.New Haven | | | | | | |
| Location 4329 HDD 4.0 Agriculture/Landowner Based on HDD Profile, minimum depth is at least 4.0 feet. New Haven | | | | | | |
| Location 4330 HDD 4.0 Agriculture/Landowner Based on HDD Profile, minimum depth is at least 4.0 feet. New Haven | Location 4329 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | |
| | Location 4330 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |

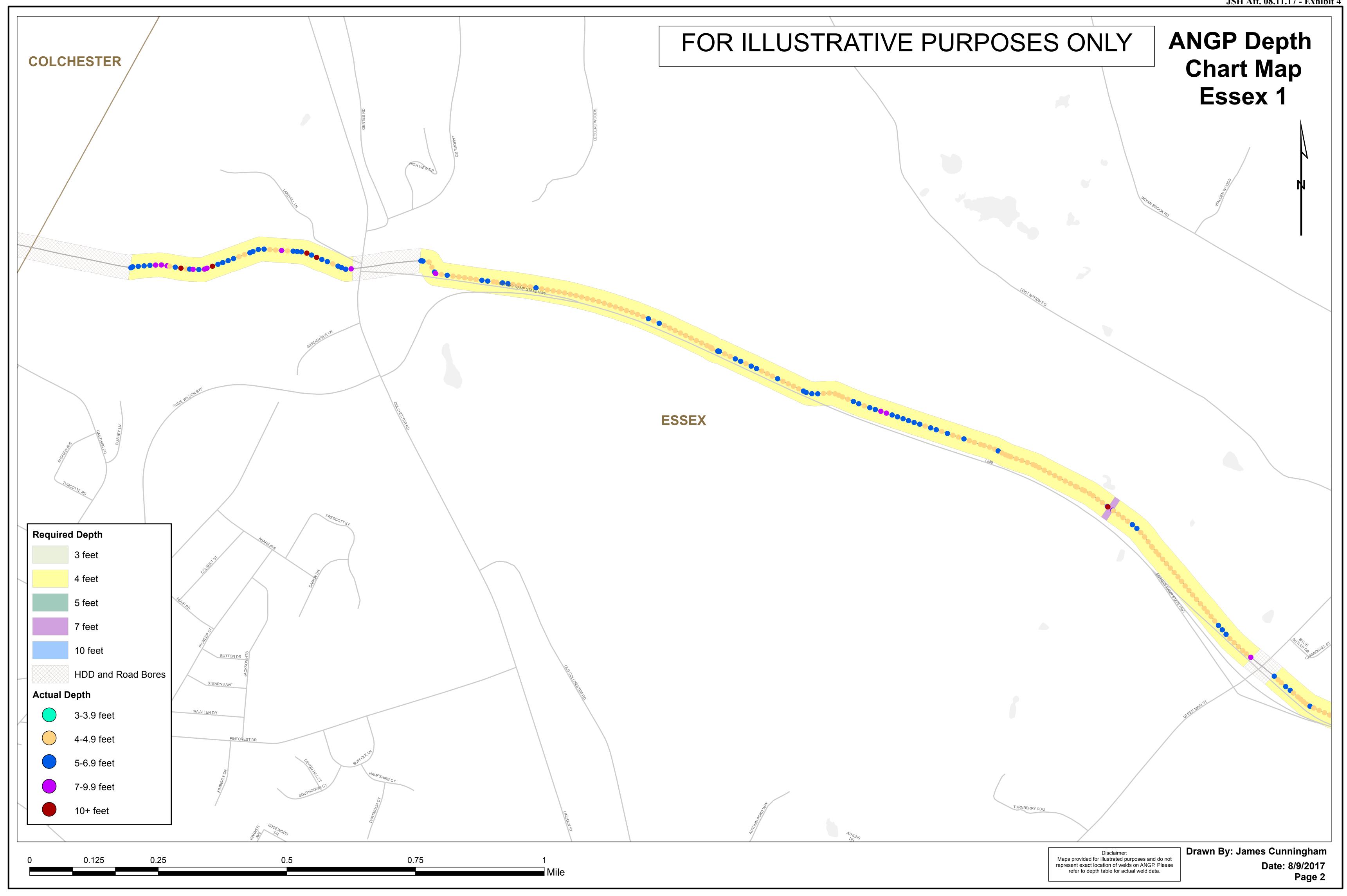
| Generic Location Identifier# | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
|------------------------------------|--------------|-------------------|---|---|-----------|
| Location 4331 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 4332 | HDD | 7.0 | DEC Stream | Crossing ID #44, 2012-TB-NH-1 (P) (New Haven River), Estimated location for Depth from HDD Profile (32.0 feet). | New Haven |
| Location 4333 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 4334 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 4335 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 4336 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 4337 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 4338 | HDD | 4.0 | Agriculture/Landowner | Based on HDD Profile, minimum depth is at least 4.0 feet. | New Haven |
| Location 4339 | 7.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4340 | 6.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4341 | 6.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4342 | 6.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4343 | 6.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4344 | 6.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4345 | 5.7 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4346 | 5.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4347 | 5.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4348 | 5.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4349 | 6.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4350 | 6.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4351 | 6.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4352 | 6.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4353 | 6.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4354 | 4.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4355 | 4.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4356 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4357 | 4.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4358 | 4.3 4.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4359 Location 4360 | 4.4 | 4.0 | Agriculture/Landowner Agriculture/Landowner | | New Haven |
| Location 4361 | 5.1 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4362 | 4.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4363 | 4.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4364 | 4.5 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4365 | 4.4 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4366 | 4.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4367 | 5.0 | 4.0 | Agriculture/Landowner | Crossing ID #45, 2012-TB/SC-PW-7 (P) | New Haven |
| Location 4368 | 5.6 | 4.0 | Agriculture/Landowner | Crossing ID #45, 2012-TB/SC-PW-7 (P) | New Haven |
| Location 4369 | 6.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4370 | 7.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4371 | 5.9 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4372 | 5.0 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4373 | 5.2 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4374 | 5.3 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4375 | 6.8 | 4.0 | Agriculture/Landowner | | New Haven |
| Location 4376 | 6.8 | 4.0 | Agriculture/Landowner | Crossing ID #46, 2012-TB/SC-PW-6 (P) | New Haven |
| Location 4377 | 7.7 | 4.0 | Agriculture/Landowner | Crossing ID #46, 2012-TB/SC-PW-6 (P) | New Haven |
| Location 4378 | 7.6 | 4.0 | Landowner | | New Haven |
| Location 4379 | 6.6 | 4.0 | Landowner | | New Haven |
| Location 4380 | 6.5 | 4.0 | Landowner | | New Haven |
| Location 4381 | 7.3 | 4.0 | Landowner | | New Haven |
| Location 4382 | 6.9 | 4.0 | Landowner | | New Haven |
| Location 4383 | 6.5 | 4.0 | Landowner | | New Haven |
| Location 4384 | 5.8 | 4.0 | Landowner | | New Haven |
| Location 4385 | 5.5 | 4.0 | Landowner | | New Haven |
| Location 4386 | 6.3 | 4.0 | Landowner | | New Haven |
| Location 4387 | 6.4 | 4.0 | Landowner | | New Haven |
| Location 4388 | 5.9 | 4.0 | Landowner | | New Haven |
| Location 4389 | 6.0 | 4.0 | Landowner | | New Haven |
| Location 4390 | 5.1 | 4.0 | Landowner | | New Haven |

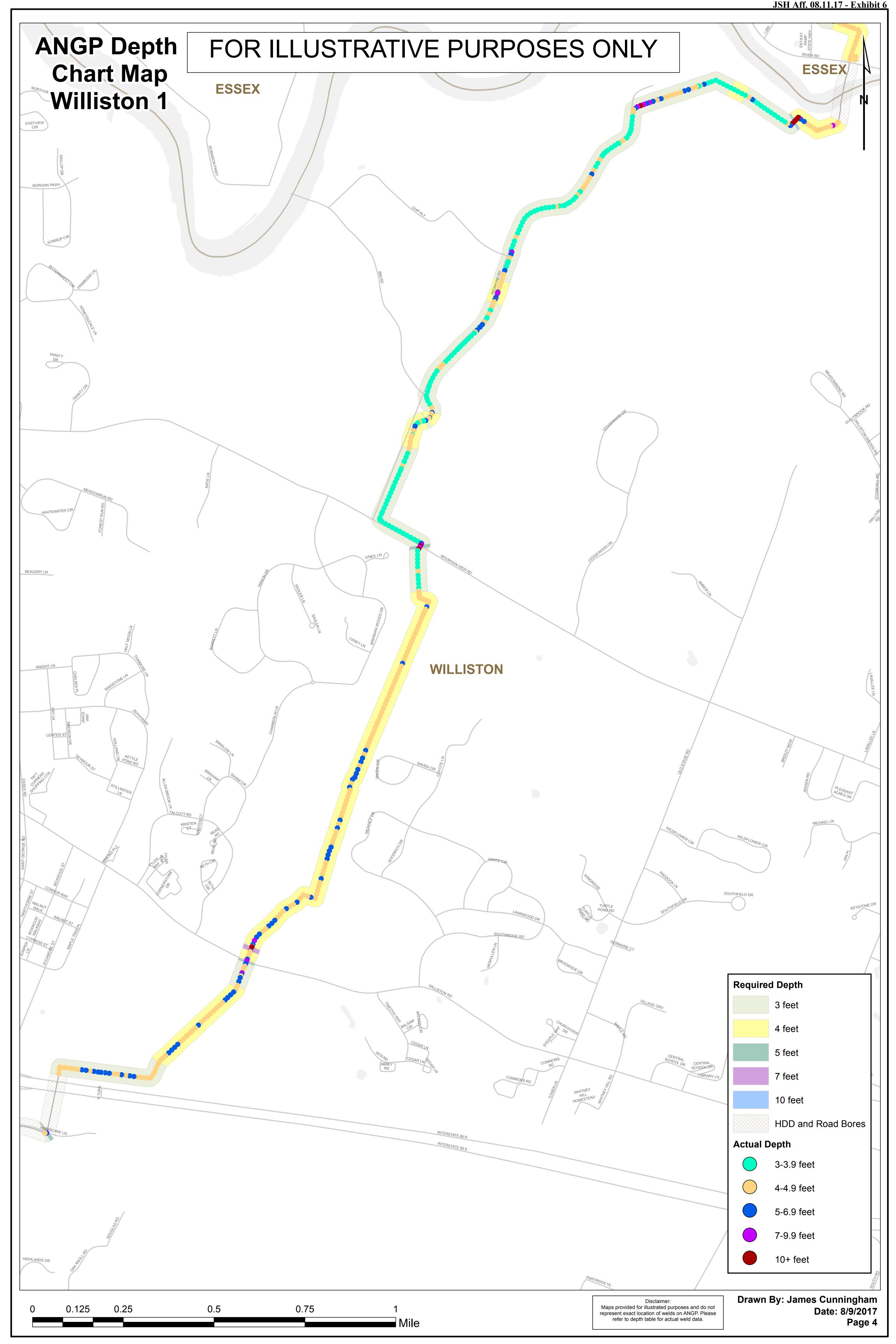
| Generic | | Poguirod | | | |
|--------------------------------|--------------|-------------------|------------------------|--|-----------|
| Location | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
| Identifier # | 4.0 | | I and a second | | |
| Location 4391 Location 4392 | 4.8 | 4.0 | Landowner | | New Haven |
| Location 4393 | 4.8 6.4 | 4.0 | Landowner Landowner | | New Haven |
| Location 4394 | 7.0 | 4.0 | Landowner | | New Haven |
| Location 4395 | 5.7 | 4.0 | Landowner | | New Haven |
| Location 4396 | 6.6 | 3.0 | PHMSA | | New Haven |
| Location 4397 | 6.2 | 3.0 | PHMSA | | New Haven |
| Location 4398 | 6.4 | 3.0 | PHMSA | | New Haven |
| Location 4399 | 7.6 | 3.0 | PHMSA | | New Haven |
| Location 4400 | 8.2 | 3.0 | PHMSA | | New Haven |
| Location 4401 | 8.0 | 3.0 | PHMSA | | New Haven |
| Location 4402 | 7.0 | 3.0 | PHMSA | | New Haven |
| Location 4403 | 4.9 | 3.0 | PHMSA | | New Haven |
| Location 4404 | 4.6 | 3.0 | PHMSA | | New Haven |
| Location 4405 | 4.7 | 3.0 | PHMSA | | New Haven |
| Location 4406 | 4.8 | 3.0 | PHMSA | | New Haven |
| Location 4407 | 5.7 | 4.0 | Landowner | Crossing ID #47, 2012-SC-PW-5 (I) | New Haven |
| Location 4408 | 6.1 | 4.0 | Landowner | Crossing ID #47, 2012-SC-PW-5 (I) | New Haven |
| Location 4409 | 5.8 | 4.0 | Landowner | | New Haven |
| Location 4410 Location 4411 | 5.7 5.8 | 4.0 | Landowner | | New Haven |
| Location 4411 Location 4412 | 5.8 | 4.0 | Landowner Landowner | | New Haven |
| Location 4413 | 5.2 | 4.0 | Landowner | | New Haven |
| Location 4414 | 5.5 | 4.0 | Landowner | | New Haven |
| Location 4415 | 6.0 | 4.0 | Landowner | | New Haven |
| Location 4416 | 5.7 | 4.0 | Landowner | | New Haven |
| Location 4417 | 6.8 | 4.0 | Landowner | Crossing ID #48, 2012-TB-PW-4 (I) | New Haven |
| Location 4418 | 6.0 | 4.0 | Landowner | Crossing ID #48, 2012-TB-PW-4 (I) | New Haven |
| Location 4419 | 6.0 | 3.0 | PHMSA | , , , , , , , , , , , , , , , , , , , | New Haven |
| Location 4420 | 5.6 | 3.0 | PHMSA | | New Haven |
| Location 4421 | 5.0 | 3.0 | PHMSA | | New Haven |
| Location 4422 | 5.5 | 3.0 | PHMSA | | New Haven |
| Location 4423 | 5.7 | 3.0 | PHMSA | | New Haven |
| Location 4424 | 5.9 | 3.0 | PHMSA | | New Haven |
| Location 4425 | 5.0 | 3.0 | PHMSA | | New Haven |
| Location 4426 | 5.6 | 3.0 | PHMSA | | New Haven |
| Location 4427 | 5.2 | 3.0 | PHMSA | | New Haven |
| Location 4428 | 6.6 | 3.0 | PHMSA | | New Haven |
| Location 4429 | 5.8 | 3.0 | PHMSA | | New Haven |
| Location 4430 | 6.1 | 3.0 | PHMSA | | New Haven |
| Location 4431 Location 4432 | 6.1 5.5 | 3.0 | PHMSA PHMSA | | New Haven |
| Location 4432 | 5.5 | 3.0 | PHMSA | | New Haven |
| Location 4434 | 5.4 | 3.0 | PHMSA | | New Haven |
| Location 4435 | 5.4 | 3.0 | PHMSA | | New Haven |
| Location 4436 | 5.7 | 3.0 | PHMSA | | New Haven |
| Location 4437 | 5.6 | 3.0 | PHMSA | | New Haven |
| Location 4438 | 5.3 | 3.0 | PHMSA | | New Haven |
| Location 4439 | 4.3 | 3.0 | PHMSA | | New Haven |
| Location 4440 | 4.4 | 3.0 | PHMSA | | New Haven |
| Location 4441 | 4.9 | 3.0 | PHMSA | | New Haven |
| Location 4442 | 4.6 | 3.0 | PHMSA | | New Haven |
| Location 4443 | ROADBORE | 3.0 | PHMSA | Based on adjacent measurements, the depth is at least 3.0 feet. | New Haven |
| Location 4444 | ROADBORE | 3.0 | PHMSA | Based on adjacent measurements, the depth is at least 3.0 feet. | New Haven |
| Location 4445 | ROADBORE | 3.0 | PHMSA | Based on adjacent measurements, the depth is at least 3.0 feet. | New Haven |
| Location 4446 | ROADBORE | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4447 | ROADBORE | 5.0 | Road Crossing | Route 7, Based on adjacent measurements, the depth is at least 5.0 feet. | New Haven |
| Location 4448 | ROADBORE | 5.0 | Road Crossing | Route 7, Pipeline locator indicated a depth of 16.2 feet in roadway. | New Haven |
| Location 4449 | 6.3 | 4.0 | VTRANS | | New Haven |
| Location 4450 | 5.2 | 4.0 | VTRANS | | New Haven |
| Location 4451 | 5.2 | 4.0 | VTRANS | | New Haven |

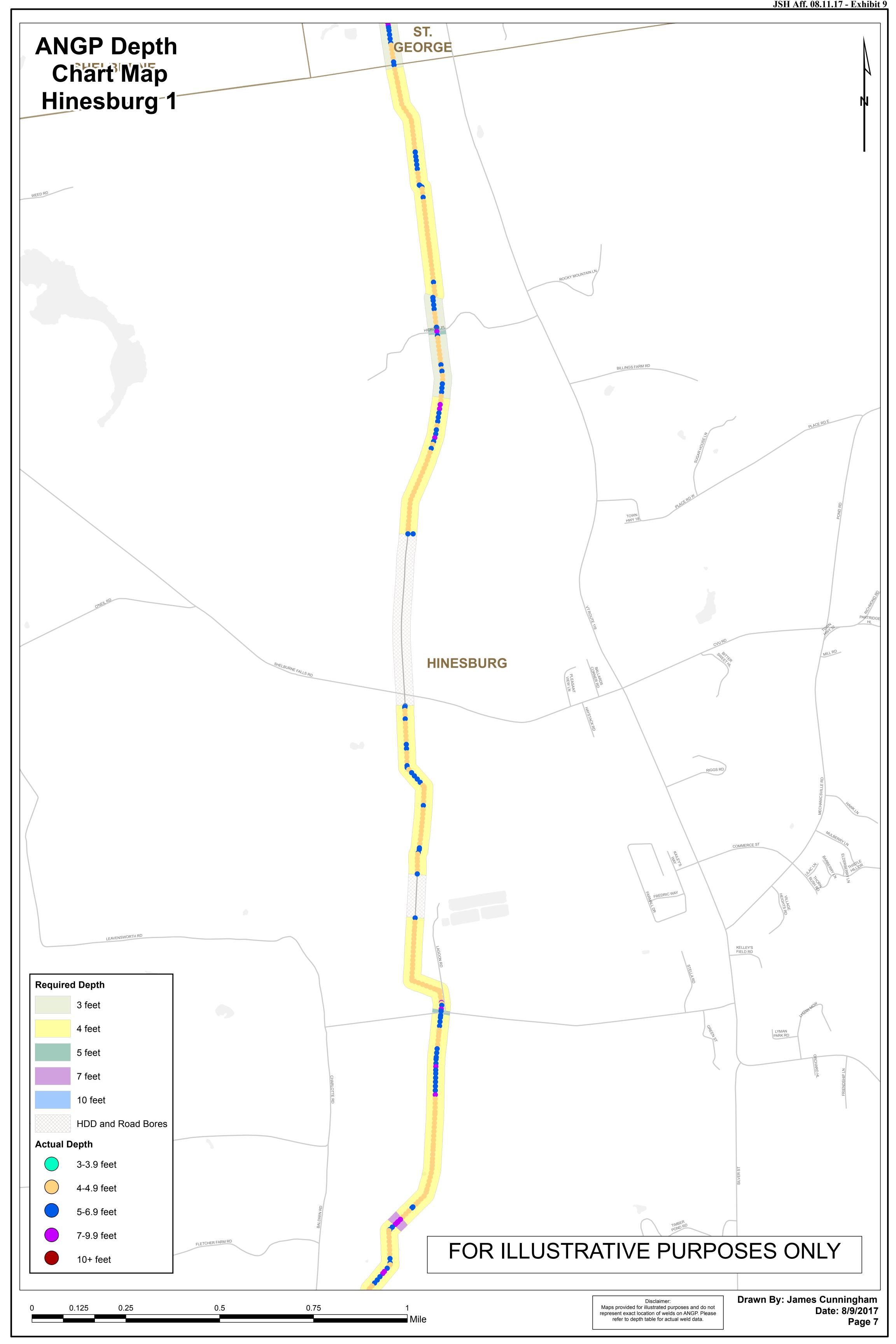
| Generic Location Identifier # | Actual Depth | Required Depth | Reason for Depth | Notes | Town |
|-------------------------------------|--------------|-------------------|-------------------------|--|------------------------|
| Location 4452 | 5.5 | 4.0 | VTRANS | Belden Falls Road - Road Crossing nearby this weld, Pipeline locator indicated a depth of 8.9 feet in roadway. 5-foot minimum required under road. | New Haven |
| Location 4453 | 6.3 | 4.0 | VTRANS | | New Haven |
| Location 4454 | 6.7 | 4.0 | VTRANS | | New Haven |
| Location 4455 | 5.7 | 4.0 | VTRANS | | New Haven |
| Location 4456 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 4457 | 6.1 | 4.0 | Agriculture | | New Haven |
| Location 4458 | 6.1 | 4.0 | Agriculture | | New Haven |
| Location 4459 | 7.0 | 4.0 | Agriculture | | New Haven |
| Location 4460 | 7.1 | 4.0 | Agriculture | | New Haven |
| Location 4461 | 7.8 | 4.0 | Agriculture | | New Haven |
| Location 4462 | 7.7 | 4.0 | Agriculture | | New Haven |
| Location 4463 | 6.4 | 4.0 | Agriculture | | New Haven |
| Location 4464 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 4465 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 4466 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 4467 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 4468 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4469 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 4470 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 4471 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 4472 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4473 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4474 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4475 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 4476 | 5.8 | 4.0 | Agriculture | December of the second of the | New Haven |
| Location 4477 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4478 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4479 | HDD | 4.0 | Agriculture | Estimated location for Depth of 10.4 feet by locator on 8/2/2017. | New Haven |
| Location 4480 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4481 Location 4482 | HDD HDD | 4.0 | Agriculture Agriculture | Estimated location for Depth of 7.5 feet by locator on 8/2/2017. | New Haven |
| Location 4483 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven New Haven |
| Location 4484 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4485 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4486 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4487 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4488 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 1.0 feet. | New Haven |
| Location 4489 | HDD | 4.0 | Agriculture | Based on adjacent measurements, the depth is at least 4.0 feet. | New Haven |
| Location 4490 | 6.3 | 4.0 | Agriculture | and the second s | New Haven |
| Location 4491 | 4.8 | | Agriculture | | New Haven |
| Location 4492 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4493 | 5.1 | 4.0 | Agriculture | | New Haven |
| Location 4494 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 4495 | 5.2 | 4.0 | Agriculture | | New Haven |
| Location 4496 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4497 | 5.4 | 4.0 | Agriculture | | New Haven |
| Location 4498 | 4.7 | 4.0 | Agriculture | | New Haven |
| Location 4499 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4500 | 4.9 | 4.0 | Agriculture | | New Haven |
| Location 4501 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 4502 | 5.5 | 4.0 | Agriculture | | New Haven |
| Location 4503 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 4504 | 5.7 | 4.0 | Agriculture | | New Haven |
| Location 4505 | 5.4 | 4.0 | Agriculture | | New Haven |
| Location 4506 | 5.6 | 4.0 | Agriculture | | New Haven |
| Location 4507 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 4508 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 4509 | 5.0 | 4.0 | Agriculture | | New Haven |
| Location 4510 | 5.5 | 4.0 | Agriculture | | New Haven |
| Location 4511 | 5.6 | 4.0 | Agriculture | | New Haven |

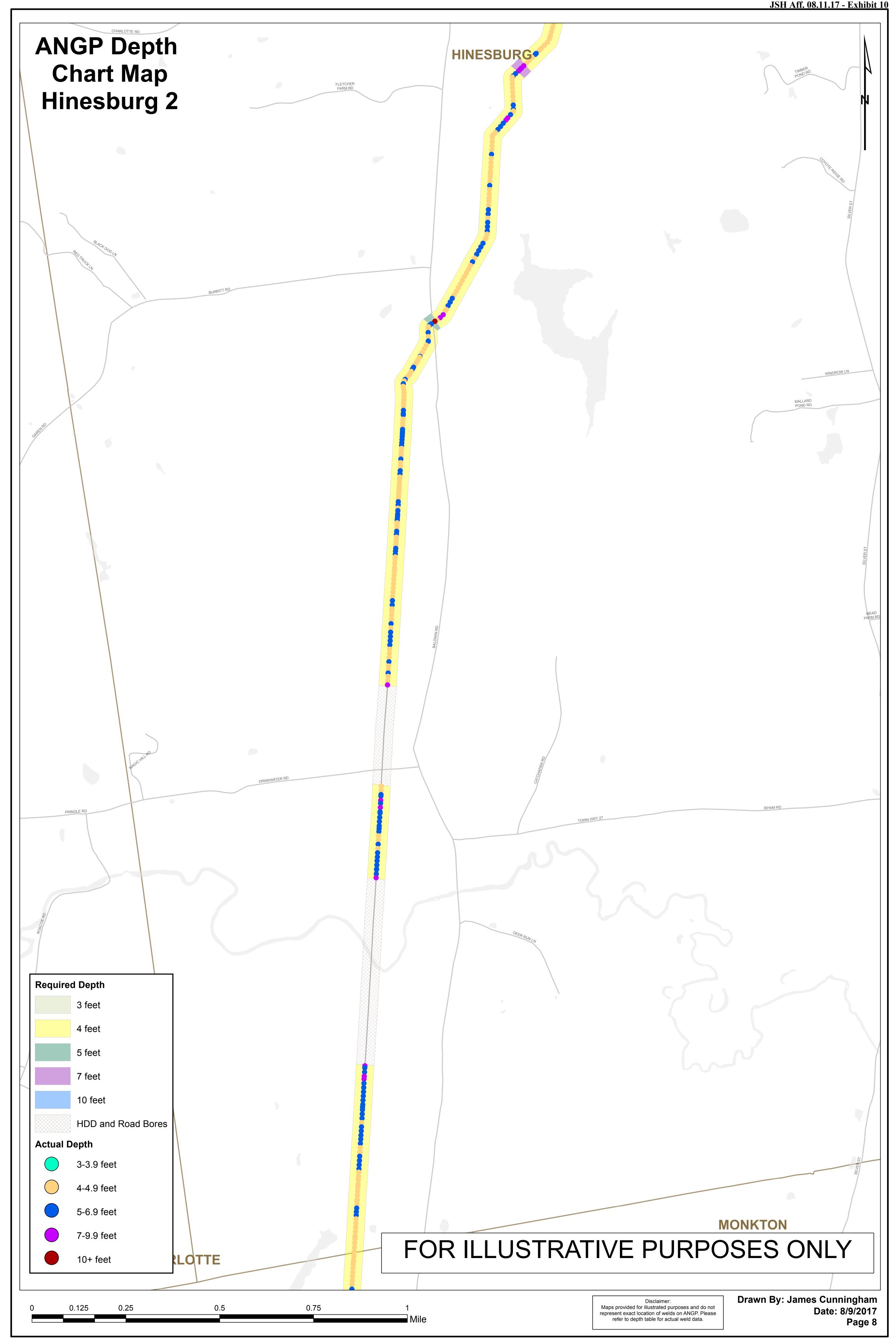
| Generic | | Required | | | |
|--------------------------------|--------------|----------|-------------------------|--|------------------------|
| Location Identifier # | Actual Depth | Depth | Reason for Depth | Notes | Town |
| Location 4512 | 6.2 | 4.0 | Agriculture | | New Haven |
| Location 4513 | 5.8 | 4.0 | Agriculture | | New Haven |
| Location 4514 | 5.3 | 4.0 | Agriculture | | New Haven |
| Location 4515 | 4.8 | 4.0 | Agriculture | | New Haven |
| Location 4516 | 5.9 | 4.0 | Agriculture | | New Haven |
| Location 4517 | 6.2 | 4.0 | Agriculture | | Middebury |
| Location 4518 | 5.6 | 4.0 | Agriculture | | Middebury |
| Location 4519 Location 4520 | 5.7 5.8 | 4.0 | Agriculture Agriculture | | Middebury Middebury |
| Location 4521 | 6.0 | 4.0 | Agriculture | | Middebury |
| Location 4522 | 4.8 | 4.0 | Agriculture | | Middebury |
| Location 4523 | 5.4 | 4.0 | Agriculture | Crossing ID #121, 2012-SC-PW-3 (P) | Middebury |
| Location 4524 | 5.8 | 4.0 | Agriculture | | Middebury |
| Location 4525 | 6.6 | 4.0 | Agriculture | | Middebury |
| Location 4526 | 6.7 | 4.0 | Agriculture | | Middebury |
| Location 4527 | 6.2 | 4.0 | VTRANS | | Middebury |
| Location 4528 | 6.4 | 4.0 | VTRANS | | Middebury |
| Location 4529 | 6.8 | 4.0 | VTRANS | | Middebury |
| Location 4530 | HDD | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Middebury |
| Location 4531 | HDD | 4.0 | VTRANS | Estimated location for Depth of 21.7 feet by locator on 8/2/2017. | Middebury |
| Location 4532 | HDD | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Middebury |
| Location 4533 | HDD | 4.0 | VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. | Middebury |
| Location 4534 | HDD | 4.0 | VTRANS | Estimated location for Depth of 20.5 feet by locator on 8/2/2017. | Middebury |
| Location 4535 Location 4536 | HDD HDD | 4.0 | VTRANS VTRANS | Based on adjacent measurements, the depth is at least 4.0 feet. Based on adjacent measurements, the depth is at least 4.0 feet. | Middebury Middebury |
| Location 4537 | 6.5 | 4.0 | VTRANS | based on adjacent measurements, the depth is at least 4.0 feet. | Middebury |
| Location 4538 | 6.4 | 4.0 | VTRANS | | Middebury |
| Location 4539 | 6.4 | 4.0 | VTRANS | | Middebury |
| Location 4540 | 6.2 | 4.0 | VTRANS | | Middebury |
| Location 4541 | 5.7 | 3.0 | PHMSA | | Middebury |
| Location 4542 | 5.3 | 3.0 | PHMSA | | Middebury |
| Location 4543 | 5.0 | 3.0 | PHMSA | | Middebury |
| Location 4544 | 4.7 | 3.0 | PHMSA | | Middebury |
| Location 4545 | 5.0 | 3.0 | PHMSA | | Middebury |
| Location 4546 | 6.1 | 3.0 | PHMSA | | Middebury |
| Location 4547 | 5.7 | 3.0 | PHMSA | | Middebury |
| Location 4548 Location 4549 | 5.3 5.2 | 3.0 | PHMSA PHMSA | | Middebury Middebury |
| Location 4550 | 5.6 | 3.0 | PHMSA | | Middebury |
| Location 4551 | 6.7 | 3.0 | PHMSA | | Middebury |
| Location 4552 | 6.7 | 3.0 | PHMSA | | Middebury |
| Location 4553 | 6.6 | 3.0 | PHMSA | | Middebury |
| Location 4554 | 5.9 | 3.0 | PHMSA | | Middebury |
| Location 4555 | 5.6 | 3.0 | PHMSA | | Middebury |
| Location 4556 | 5.5 | 3.0 | PHMSA | | Middebury |
| Location 4557 | 5.8 | 3.0 | PHMSA | | Middebury |
| Location 4558 | 6.8 | 3.0 | PHMSA | | Middebury |
| Location 4559 | 5.8 | 3.0 | PHMSA | | Middebury |
| Location 4560 | 6.0 | 3.0 | PHMSA | | Middebury |
| Location 4561 Location 4562 | 5.8 5.9 | 3.0 | PHMSA PHMSA | | Middebury Middebury |
| Location 4563 | 5.7 | 3.0 | PHMSA | | Middebury |
| Location 4564 | 5.8 | 3.0 | PHMSA | | Middebury |
| Location 4565 | 7.4 | 3.0 | PHMSA | | Middebury |
| Location 4566 | 7.4 | 3.0 | PHMSA | | Middebury |
| Location 4567 | 6.7 | 4.0 | Agriculture | | Middebury |
| Location 4568 | 5.5 | 4.0 | Agriculture | | Middebury |
| Location 4569 | 4.4 | 4.0 | Agriculture | | Middebury |
| Location 4570 | 4.3 | 4.0 | Agriculture | | Middebury |
| Location 4571 | 3.4 | 3.0 | PHMSA | N. I. | Middebury |
| Location 4572 | 3.5 | 3.0 | PHMSA | Middlebury Gate Station, MLV #7 | Middebury |

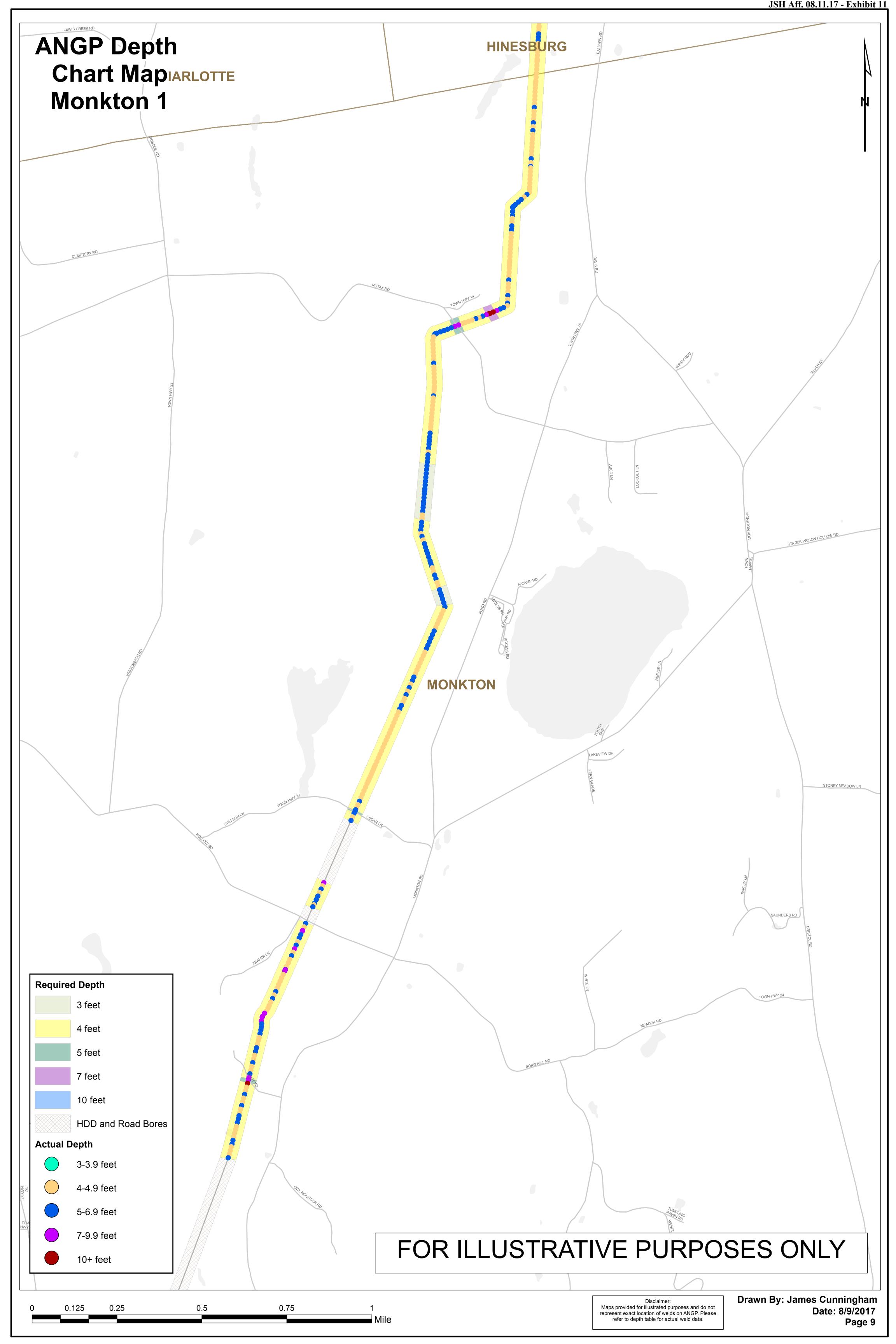


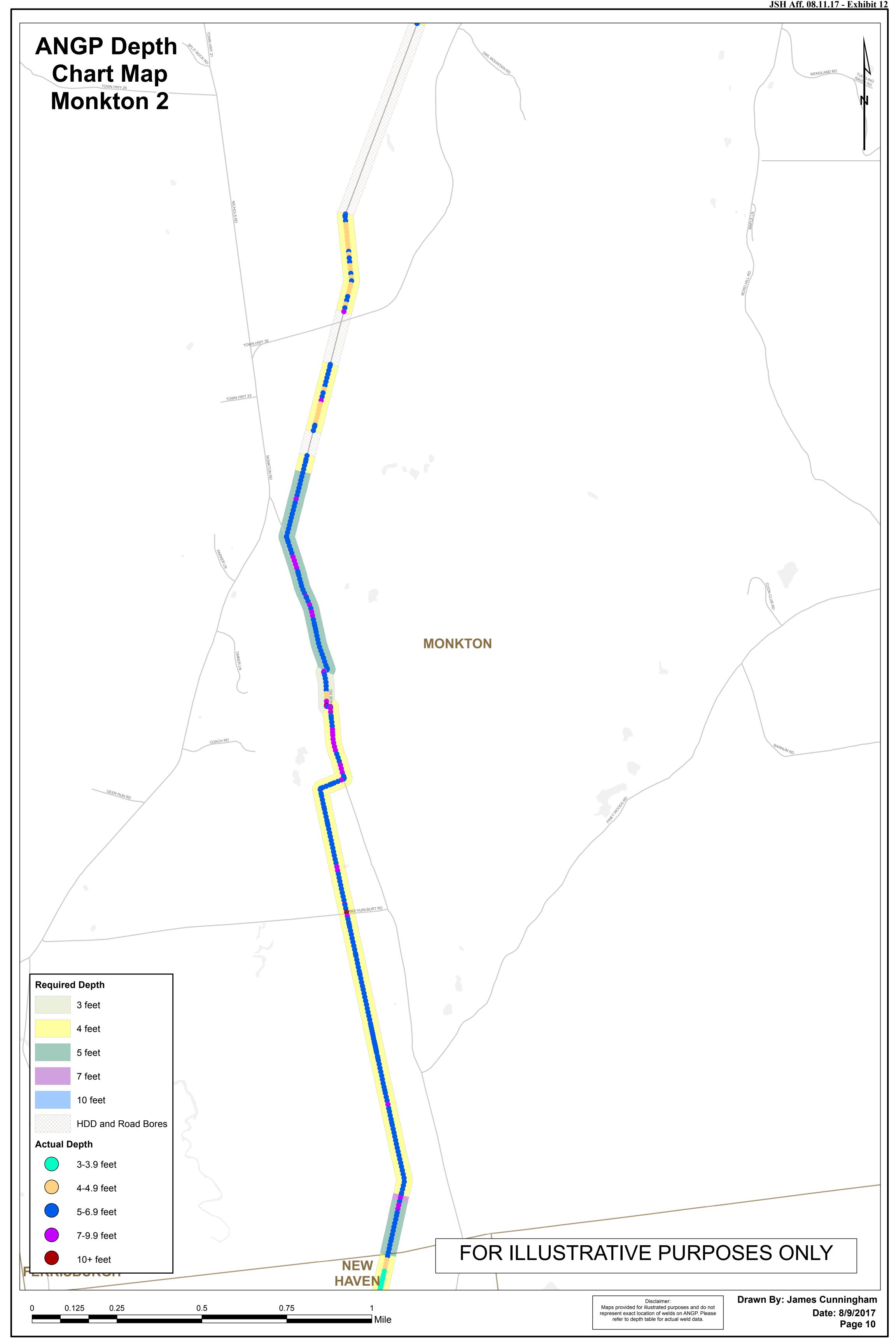


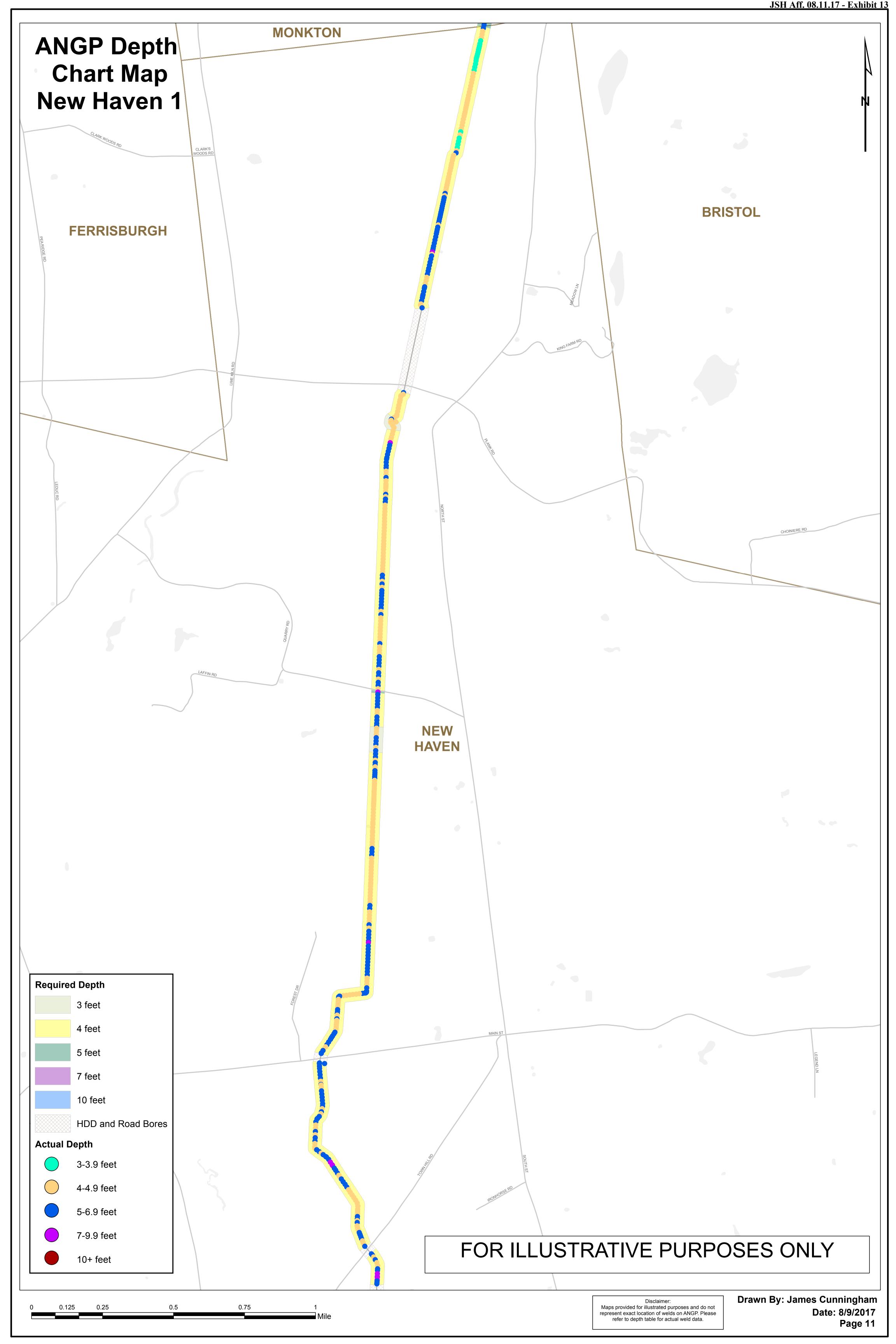


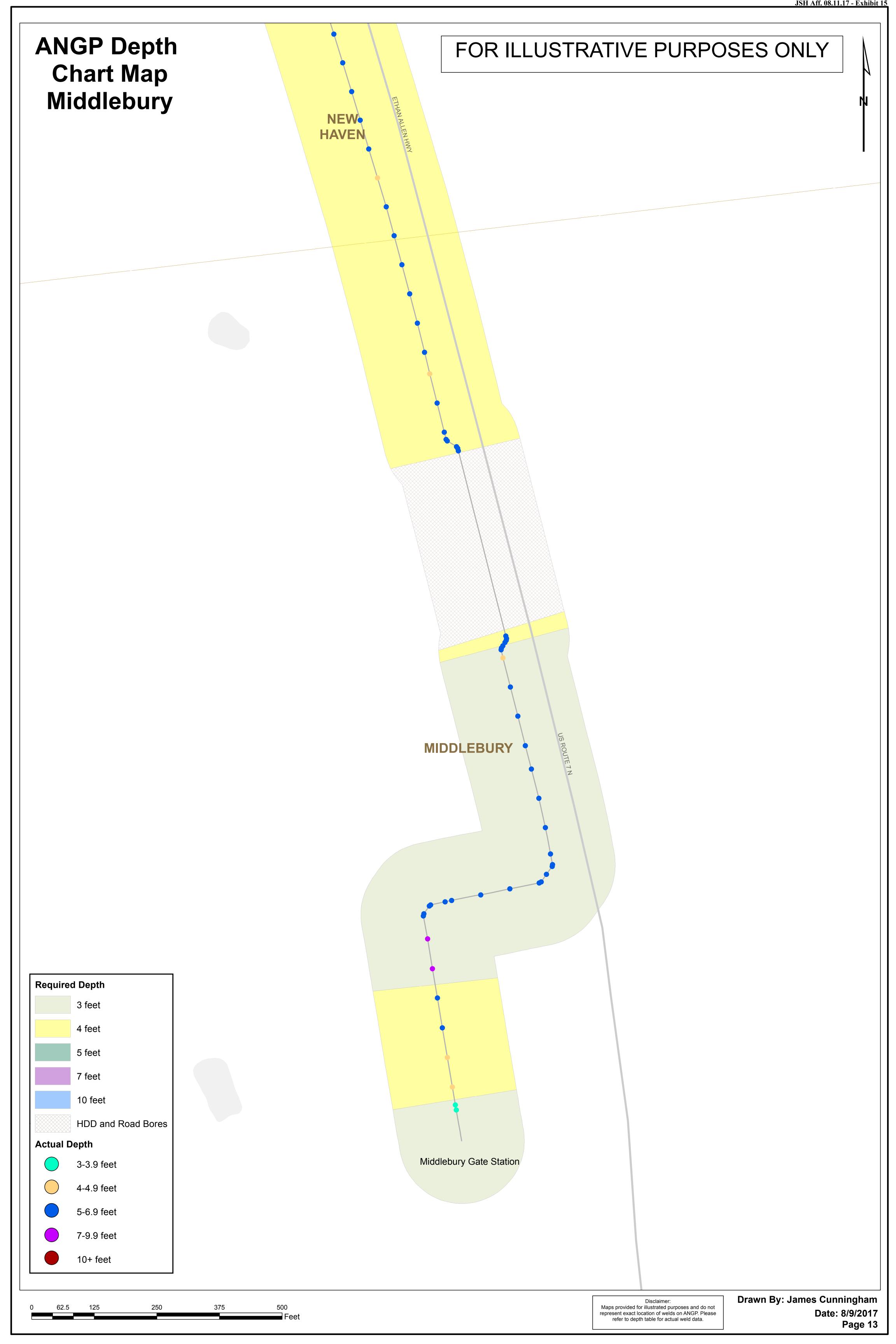












VELCO PWL 2 VELCO/VGS MOU Page 1 of 8

MEMORANDUM OF AGREEMENT

BETWEEN VERMONT TRANSCO LLC/VERMONT ELECTRIC POWER COMPANY, INC. ("VELCO") and VERMONT GAS SYSTEMS, INC.
REGARDING THE SHARED USE OF VELCO'S RIGHTS OF WAY, VELCO'S ACCESS ROUTES, and VELCO'S OTHER PROPERTY INTERESTS

This Agreement ("Agreement") is made as of and shall be deemed effective the ____ day of June, 2013, regardless of the signature dates, between Vermont Transco LLC and Vermont Electric Power Company, Inc., the managing partner of Vermont Transco LLC, (collectively referred to as "VELCO") and Vermont Gas Systems, Inc. ("VGS", and with VELCO, the "Parties," and each, a "Party").

PRELIMINARY STATEMENT

WHEREAS, on December 20, 2012, VGS filed with the Vermont Public Service Board ("Board") in Docket No. 7970 a petition for a Certificate of Public Good ("CPG") for expansion of VGS's existing natural gas pipeline system into Addison County, Vermont (the "Project");

WHEREAS, parts of the Project may, subject to Board approval, temporarily and/or permanently be co-located within portions of VELCO's fee property, VELCO's K21/K22/K24/K27/K43/K63/K64 and 370 bulk electric transmission line rights-of-way and associated VELCO access routes (the "VELCO ROW") in Chittenden and Addison County;

WHEREAS, the Parties have negotiated and will continue to negotiate in good faith the terms of an easement or license agreement regarding VGS' right to construct, operate, and maintain the Project within VELCO's ROW;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. <u>Co-Location Easement.</u> The Parties agree and approve of VGS' plans to co-locate approximately 10.2 miles of longitudinal occupancy of the Project pipeline within the VELCO ROW, together with 0.81 miles of occupancy where the Project pipeline crosses the VELCO ROW, as set forth in the updated plans to be submitted by VGS with the Board on June 28, 2013, which are in substance identical to the plans concerning VELCO's ROW provided to VELCO on June 5, 2013 (the "Project Plans"). Other than where the Project Plans reflect the Project crossing the VELCO ROW, VELCO agrees to provide to VGS, subject to terms and conditions (including price) to be negotiated between the parties in good faith, an easement and/or other instrument from VELCO for (a) a 20' wide permanent easement beginning at the edge of the VELCO ROW and extending inward 20', and (b) an additional adjacent 20' wide area for ongoing access and maintenance (the "Co-Location Easement")¹. VGS will install the Project pipeline 10' inside of the edge of the VELCO ROW (i.e., centered in 1(a)). Where the Project

¹ The parties are still evaluating the merits of using an easement or license. For ease of reference only, the term Co-Location Easement is used herein. VGS acknowledges and understands that VGS may need to obtain additional rights from the owners of the land underlying VELCO's easements.

crosses the VELCO ROW, the Parties agree to a 40' wide Co-Location Easement (20 feet permanent easement/license with 10 feet of access on either side) subject to terms and conditions (including price) to be negotiated between the parties in good faith. The Parties acknowledge and agree that VGS' Project Plans place the Project pipeline on the west side of the VELCO ROW where possible and, that in those locations where the Project plans propose placement of the pipeline on the east side of the VELCO ROW, such placement is acceptable to VELCO subject to an acceptable cathodic protection, AC mitigation, and grounding (collectively referred to herein as "CP") design. The Parties understand and agree that VELCO's installation of a future 345 kV or other electric transmission line within or adjacent to the existing VELCO ROW may limit access areas to ensure a 20 foot horizontal clearance between VELCO's facilities and VGS equipment and access vehicles.

The Parties agree to work in good faith to develop a mutually acceptable Co-Location Easement document. The Parties have targeted August 1, 2013 as the target date to finalize the Co-Location Easement language, and anticipate resolving price, and finalizing and executing the Co-Location Easement shortly after CPG issuance in Docket No. 7970.

Nothing in this MOU shall be deemed as VELCO's approval or consent to any modification of the Project Plans concerning the VELCO ROW made after the date this Agreement is executed.

- 2. <u>Operating Agreement.</u> The Parties agree to work in good faith to develop a mutually acceptable Operating Agreement to govern terms and conditions for each of the Party's ongoing maintenance and operating activities within the Co-Location Easement area. The Parties have targeted December 31, 2013 as the target date to finalize the Operating Agreement.
- 3. VGS Design to Account for Potential VELCO 345 kV Build- Out. The VGS Project Plans account for a potential 345 kV future build-out of the VELCO electric transmission system. The Parties are engaging in an iterative process of informational exchanges and design review to develop a mutually acceptable design for CP. The Parties have targeted June 30, 2013 as a completion date for the CP design, but acknowledge that the CP design may require more time and agree to continue to work in good faith towards finalizing the CP design. Further, the Parties mutually agree that while VGS will design the Project Plans to incorporate CP for a potential future 345 kV build-out, the initial Project build may not, in VGS' sole discretion, include this additional CP at the time the Project is constructed, provided however that: VGS will install CP associated with a future 345 kV build-out if/when such VELCO build-out occurs; said CP will be permitted by and paid for by VGS; and further provided that VGS will install said CP in a timeframe and manner that does not materially delay, hinder, or interrupt construction of the 345 kV build out and which does not increase VELCO's 345 kV build-out costs.
- 4. <u>Project Plans.</u> Excepting issues of easement compensation, finalization of an Operating Agreement, VELCO acknowledges and agrees that, in the Project Plans provided to VELCO prior to the execution of this Agreement and through the commitments made in this MOU, VGS has adequately addressed VELCO's concerns regarding the Project raised in the 30 V.S.A. § 248 proceeding and further agrees that the Project does not unduly adversely impact VELCO's system reliability and stability, provided that VGS designs, installs (subject to the

limitations in this Agreement), and maintains acceptable CP. VELCO reserves all its rights with respect to any proposed changes to the Project Plans concerning the VELCO ROW.

- 5. <u>Loading.</u> VGS will design the Project in VELCO's ROW and access roads into VELCO's ROW to meet an HS-20+15% standard which VGS plans to meet by using Class 3 pipe interred at a depth of 4 feet.
- 6. Line Clearances During Construction. VGS will follow and comply with the applicable provisions of VELCO'S manual for Accident Prevention Rules for Contractors, the National Electric Safety Code ("NESC") and Occupational Safety and Health Administration ("OSHA") clearances during all Project pre-construction, construction and maintenance activities within the VELCO ROW. VELCO is in the process of conducting a hot conductor sag clearance study of the locations where the VGS pipeline crosses the VELCO electric transmission system. If energized conductor clearances are not adequate to meet OSHA, VELCO-required, and NESC clearances, VGS will pay VELCO (or hire at its own cost a VELCO-approved contractor) to temporarily raise the height of its conductors, if practicable and feasible, or take other reasonable measures to resolve clearance issues, during construction at crossings with the VELCO line, all at no cost to VELCO and without, in VELCO's sole opinion, jeopardizing electric system reliability. VELCO will make reasonable efforts to provide advance notice to VGS of any planned system transmission line outages so that VGS can take advantage of such outages in planning the schedule for Project construction at locations where the Project crosses the VELCO ROW. VGS will not alter the topography of nor stockpile materials in the VELCO ROW in a manner that violate NESC clearances.
- 7. <u>Temporary Work Areas in Proximity to the VELCO Lines.</u> VELCO acknowledges and agrees that the Project Plans have satisfactorily moved temporary work spaces away from VELCO structures. Nothing in this section shall be deemed as approval of any new Temporary Work Areas near VELCO lines, if any, proposed to the Project Plans.
- 8. <u>Clearing.</u> VGS plans to brush hog their Project's ROW, including the area within the Co-Location Easement, approximately every three years. The Parties plan to address their respective vegetation maintenance activities in the Operating Agreement.
- 9. Project Construction Review and Oversight Work. VGS will coordinate with VELCO personnel regarding any work conducted within the VELCO ROW, including providing sufficient advanced notice to VELCO Senior Project Manager (Peter W. Lind) as to the timing and location of any field work, pre-construction, survey work, clearing, or construction work to be performed by VGS or its consultants within the VELCO ROW. VELCO may accompany VGS and its contractors performing such work within the VELCO ROW.

VGS' Project construction, installation, operation and maintenance activities taking place within the VELCO ROW or VELCO access routes shall not interfere with or interrupt VELCO's operation and maintenance of or access to its transmission lines, facilities, and ROW corridor, or compliance with any condition or obligation contained in any Certificate of Public Good or other permit issued to VELCO to date, or in violation of any future condition or standard imposed by

any state, regional, or federal regulatory agency, including FERC and NERC. The conditions of this MOU, the Operating Agreement and the Co-Location Easement shall be considered and incorporated into any future VELCO projects, permits and Certificates of Public Good that may impact the Project.

In the case of an emergency related to VELCO's electric transmission line(s), VELCO shall immediately notify VGS at 802-863-4511 and VGS shall suspend all work until VELCO notifies VGS that the emergency has been resolved.

VGS shall reimburse all reasonable costs that VELCO would not have incurred but for its obligations to perform under this MOU ("Costs") which Costs shall include VELCO personnel time and consultant costs incurred in performing its obligations under the MOU including but not limited to performing engineering design reviews, NESC conductor sag analyses, and construction coordination/field oversight. VELCO shall use reasonable best efforts to minimize time and expense charged to VGS. VELCO shall not charge VGS for legal or other expenses directly associated with VELCO's participation in Docket No. 7970 (e.g., witness time/expense, legal expense). VELCO shall invoice VGS monthly for any Costs. VGS shall pay such invoices on a net 30 basis.

- 10. <u>VGS Personnel and Agents</u>. All VGS personnel or agents entering the VELCO ROW (including access routes) shall have received VELCO-certified safety and environmental training appropriate for working in electric transmission corridors (provided by VELCO or by a VELCO qualified contractor), and shall notify VELCO System Operators each time they enter and leave the VELCO ROW by calling VELCO's Control Center at (802) 770-6261.
- 11. <u>Limitation of Liability</u>. Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages. This provision shall not apply to causes of action for gross negligence or intentional misconduct.
- 12. <u>Indemnification</u>. Each Party shall at all times indemnify, defend, and hold the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties (collectively "Claims"), arising out of or resulting from the indemnifying Party's action or failure to meet its obligations under this Agreement on behalf of the indemnified Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party. For purposes of clarity, VGS agrees to indemnify, defend, and hold harmless VELCO and VT Transco LLC (and their directors, managers, employees, and agents) for any Claims caused by the by the Project, and its pre-construction, construction, operation, and maintenance, except to the extent that the Claims are caused by the negligence of VELCO.
- 13. <u>Insurance</u>. During the duration of this Agreement, VGS shall maintain in force liability coverage in the following amounts: \$3,000,000 for general liability, combined single limit for bodily injury, property damage, personal injury, to include blanket contractual

coverage; \$3,000,000 combined single limit – excess of primary limits umbrella liability coverage per occurrence and in the aggregate. Such coverage shall be sufficient to cover all VGS contractors and subcontractors. Such amount of liability coverage will be reviewed annually by VELCO and if the coverage amount is not adequate to cover the risks, VELCO shall provide notice to VGS of the amount of the increased liability coverage. VGS shall have sixty (60) days from the notice to adjust liability coverage. VGS shall provide a certificate(s) of insurance, which names Vermont Transco LLC and Vermont Electric Power Company, Inc. as additional insureds on a *primary and non-contributory basis*, and which shall specify the description of operations being covered or other appropriate language. The insurance coverage described above shall be primary to any other coverage available to VELCO or to affiliates and shall not be deemed to limit VGS's liability under this Agreement. Should VGS fail to provide the insurance required pursuant hereto, nothing herein shall release VGS of the obligation to pay any claims that arise hereunder.

14. <u>Notices</u>. All notices, requests, and statements shall be in writing and shall be sent to the recipients and addresses set out below, as the same may be modified by the parties from time to time:

VELCO:

Peter W. Lind, Senior Project Manager

Vermont Electric Power Company, Inc.

366 Pinnacle Ridge Road Rutland, Vermont 05701 Tel: (802) 770-6292 Cell: (802) 353-0418

plind@velco.com

VGS:

Marc Teixeira, Vice President Vermont Gas Systems, Inc

PO Box 467

Burlington, VT 05402 Phone: 802-951-0387

mteixeira@vermontgas.com

15. Confidentiality.

(a) <u>Confidential Information</u>. The Parties agree to treat all Confidential Information ("Confidential Information" or "CI"), as defined below, according to the terms of this Paragraph 13. "Confidential Information" includes: (i) Critical Energy Infrastructure Information or CEII (which is defined as: (1) all information designated as such by VELCO, whether furnished before or after the date hereof, whether oral, written or recorded/electronic, and regardless of the manner in which it is furnished; and (2) all reports, summaries, compilations, analyses, notes or other information which contain such information); and (2) all information marked "Confidential" or otherwise clearly marked in a manner to reasonable suggest that it is confidential.

The receiving Party shall receive all CI in strict confidence, shall exercise reasonable care to maintain the confidentiality and secrecy of the information, and shall not divulge CI to any third party without the prior written consent of the disclosing Party. The foregoing notwithstanding, the receiving Party may disclose CI to its duly authorized agents to the extent each such agents have a need to know such CI for the purpose contemplated by this Agreement and agrees to observe and comply with the obligations of the receiving Party under this Agreement with regard to such CI. The receiving Party shall be responsible hereunder for any breach of the terms of this Agreement to the extent caused by its duly authorized agents. All CI shall be maintained by the receiving Party in a secure place. The receiving Party may make notes of CI, which shall be treated as CI if they contain CI. The receiving Party and each of its duly authorized agents shall use CI disclosed by the disclosing Party solely in connection with the purpose of the Agreement and the furtherance of their respective business purposes and shall not use, directly or indirectly, any CI for any other purpose without the disclosing Party's prior written consent. The receiving Party shall not knowingly use and CI directly or indirectly for any illegal or non-legitimate purpose. In the event that the receiving Party is required to disclose CI by subpoena, law or other directive of a court, administrative agency or arbitration panel, the receiving Party hereby agrees to provide the disclosing Party with prompt notice of such request or requirement in order to enable the receiving Party to (i) seek an appropriate protective order or other remedy, (ii) consult with the receiving Party with respect to taking steps to resist or narrow the scope of such request or legal process, or (iii) waive compliance, in whole or in part, with the terms of this Agreement. The CI is provided "as is" with all faults. In no event shall the disclosing Party be liable for the accuracy or completeness of the CI. The disclosing Party shall not have liability to the receiving Party, or any other person or entity, for the receiving Party's use of any CI disclosed pursuant to this Agreement. In the event that such protective order or other remedy is not obtained, or the disclosing Party waives compliance with the provisions hereof, the receiving Party hereby agrees to furnish only that portion of the CI which the receiving Party's counsel advises is legally required and to exercise best efforts to obtain assurance that confidential treatment will be accorded such CI. The receiving Party agrees that any breach of this Agreement may cause the disclosing Party substantial and irreparable damages and, therefore, in the event of any such breach or threatened breach, in addition to other remedies which may be available, the disclosing Party shall have the right to specific performance and other injunctive and equitable relief, it being acknowledged that legal remedies are inadequate. The disclosing Party may audit the receiving Party's compliance with this Agreement. Notwithstanding Paragraph 3, this paragraph shall survive the termination of this Agreement.

This Agreement shall not be deemed confidential.

(b) <u>Critical Energy Infrastructure Information</u>. In the event that VELCO, in its sole discretion as informed by standard definitions of CEII, so requests, VGS shall promptly deliver to VELCO all CEII, including all copies, reproductions, summaries, compilations, analyses or extracts thereof. If there is a change in status of any duly authorized agent of the receiving Party or to the receiving Party, the agent or receiving Party must inform VELCO immediately in writing at the address given above (Attention: Kimberly Pritchard), and promptly return the CEII to VELCO or destroy the CEII. VELCO may require the return or destruction of the CEII. CEII provided pursuant to this Agreement is deemed to be on loan and must be returned to

VELCO upon request. VGS shall remain bound by this Section 13 unless VELCO rescinds the CEII designation.

- 16. No Duty to Third Parties. This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest, and, where permitted, their assigns.
- 17. Assignment. This Agreement shall be binding upon and inure to the benefit of the successors, assigns, personal representatives, and heirs of the respective Parties hereto. No assignment of this Agreement, in whole or in part, will be made without the prior written consent of the non-assigning Party (and shall not relieve the assigning Party from liability hereunder), which consent will not be unreasonably withheld, conditioned, or delayed and any assignment without such consent shall be void. Upon any such assignment, transfer and assumption, the transferor shall remain principally liable for and shall not be relieved of or discharged from any obligations hereunder.
- 18. No Partnership. This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.
- 19. Public Announcements. Neither Party shall create, publish, or distribute any written material related to this Agreement or the Project that references the other Party without first submitting to the other Party such material and receiving the prior written consent of such Party, which will not be unreasonably withheld, conditioned, or delayed. Neither Party will make announcements or statements to the public or any third-party concerning the relationship between them or the transactions described in this Agreement without the prior written consent of the other, which will not be unreasonably withheld, conditioned, or delayed. The preceding two sentences shall not apply to materials, announcements, or statements that are not inconsistent with the basic talking points agreed to by the parties. Within a reasonable timeframe following the execution of this Agreement, and prior to any public announcement, the Parties shall agree on basic talking points to use when discussing this Agreement with third-parties. If the parties fail to agree on talking points within three weeks of the execution of this Agreement, this section may be nullified upon notice by either party. If, in discussing this Agreement or the Project with third-parties, either Party becomes aware of any issues of concern regarding the other Party raised by those third-parties, that Party shall inform the other Party about those issues as soon as is reasonably practical. Notwithstanding the foregoing, either Party may acknowledge the existence of this MOU and disclose its terms without first notifying and obtaining the approval of the other Party.
- 20. <u>Dispute Resolution</u>. For all disputes arising under or in connection with this Agreement, the Parties shall first attempt to resolve the dispute in a meeting of the contacts listed in Paragraph 14 (Notices) and any other mid-level management that the Parties assign to the

VELCO PWL 2 VELCO/VGS MOU

Page 8 of 8

meeting. If such a meeting does not resolve the dispute, the Parties shall attempt to resolve the dispute through a meeting of senior management.

21. Regulatory Conditions. The terms of this MOU shall be subject to any conditions or limitations imposed by the Board or any other regulatory body or tribunal having jurisdiction over the Project.

IN WITNESS WHEREOF the Parties hereto have caused their representatives to execute and deliver this Agreement as of the date hereinabove set forth.

| Dated at Burlington, Vermont this _ | _day of June, 2013. |
|-------------------------------------|--|
| | Vermont Gas Systems, Inc. |
| | By: |
| Dated at Rutland, Vermont this | day of June, 2013. |
| | Vermont Electric Power Company, Inc. |
| | By: Karen K. O'Neill, Vice President and General Counsel |

1427 894.1

VELCO PWL 2 VELCO/VGS MOU

Page 8 of 8

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IN WITNESS WHEREOF the Parties hereto have caused their representatives to execute and deliver this Agreement as of the date hereinabove set forth.

| Dated at Burlington, Vermont this _ | day of June, 2013. |
|-------------------------------------|--|
| | Vermont Gas Systems, Inc. |
| | By: Eileen Simollardes, Vice President for Supply and Regulatory Affairs |

Dated at Rutland, Vermont this 3th day of June, 2013.

Vermont Electric Power Company, Inc.

Karen K. O'Neill, Vice President and General

Counsel

14278894.1

meeting. If such a meeting does not resolve the dispute, the Parties shall attempt to resolve the dispute through a meeting of senior management.

21. <u>Regulatory Conditions</u>. The terms of this MOU shall be subject to any conditions or limitations imposed by the Board or any other regulatory body or tribunal having jurisdiction over the Project.

IN WITNESS WHEREOF the Parties hereto have caused their representatives to execute and deliver this Agreement as of the date hereinabove set forth.

Dated at Burlington, Vermont this day of June, 2013.

Vermont Gas Systems, Inc.

By: Eileen Simollardes, Vice President for Supply and Regulatory Affairs

Dated at Rutland, Vermont this ___day of June ___, 2013.

Vermont Electric Power Company, Inc.

By:

Thomas Dunn, Chief Operating Officer



ROOT CAUSE ANALYSIS ADDISON NATURAL GAS PIPELINE

CLAY PLAINS CONSTRUCTION

DEPTH OF COVER – SEPTEMBER 6 TO NOVEMBER 9, 2016

VERMONT GAS SYSTEMS, INC. 85 SWIFT STREET SOUTH BURLINGTON, VT 05403

PREPARED BY: JOHN ST. HILAIRE AUGUST 11, 2017

INTRODUCTION

The purpose of this Root Cause Analysis ("RCA") is to examine the events that occurred and determine the causes that contributed to the installation of the Addison Natural Gas Pipeline ("ANGP") within the Red/Silver Maple Green Ash Swamp (also referred to as Clay Plains) at a depth of less than 4 feet at 18 locations.

As described below, after notification of the achieved depths from its survey contractor, VGS pursued an agreed remediation plan with the ROW owner, VELCO, and sought the Department of Public Service's ("Department") input. Those efforts led to a request to the Public Utility Commission ("PUC") on June 2, 2017 for a determination of a Non-Substantial Change ("NSC") related to the remediation plan.

EVENT DESCRIPTION AND TIMELINE

VGS entered into a Memorandum of Agreement with VELCO ("VELCO MOA") regarding the installation of the ANGP within its ROW, including in the Clay Plains Swamp, approved by the PUC in its Final Order granting a CPG for the project. The VELCO MOA stated: "5. Loading. VGS will design the Project in VELCO's ROW to meet an HS-20+15% standard which VGS plans to meet by using Class 3 pipe interred at a depth of 4 feet." The PUC's Final Order required compliance with the VELCO MOA.

Vermont Gas contracted with Michels to undertake mainline construction in 2015 and 2016, including approximately 30 miles of the ANGP in 2016. As the contractor, Michels was responsible for construction means and methods. Michels was provided contractor specifications, including for the VELCO ROW, for the 2016 season.

Michels began construction work for the season on approximately May 23, 2016 and completed construction activities on December 12, 2016. During construction, Michels met with VGS personnel frequently, including weekly construction management meetings to discuss the current status of pipeline construction and plans for upcoming work.

In early September 2016, Michels began the process of installing the pipeline in the Clay Plains Swamp. Consistent with VGS' plan to meet the VELCO loading standard as set forth in the VELCO MOA, VGS' construction specifications called for a 4-foot depth of cover in this area. Given the wet soil conditions in this location, Michels began its work by constructing a mat road to access and install the pipeline, using 8' wooden mats. In the Clay Plains Swamp area, the ROW and work space was narrow, compared to other areas of the ANGP. As a result, Michels initially placed the pipe in a staging trench as the field team prepared for actual trenching and pipe lowering at a later date.

On September 15, Michels began the process of excavating to lower the pipe and was unable to achieve depth within the planned working hours.

On September 16, Michels continued efforts to lower the pipe, using longer wooden mats placed along the wall of the dug trench along with multiple excavators to help hold wet soil and aid in lowering the pipe. The work proceeded slowly, extending into the following work week on September 19 and 20. Michels reported progress, but noted that great care had to be taken to protect equipment and workers using the wooden mats for stability. At one point, a piece of equipment slipped off its mat and became stuck temporarily in mud.

On September 19, VGS informed VELCO of the challenges Michels was experiencing installing the pipeline within the Clay Plains Swamp ROW. Concerned that Michels may not achieve the planned 4-foot depth specified, VGS discussed with VELCO whether its loading standards could be achieved with a shallower burial at this location. VGS shared with VELCO an engineering analysis performed in May 2016 that showed VELCO's loading standard would be met with depths at 3 feet. VGS also informed VELCO that its contractor would continue to work to reach a 4-foot depth and complete installation in this area. Michels finished installation on September 20, 2016.

Following the protocol for the pipeline installed through open trenching, during initial installation, VGS' survey contractor CHA took a measurement at the top of the pipe at each weld in the Clay Plains Swamp, so that final interred depth could be determined after fill, contouring and clean-up.

On September 21, VELCO told VGS that it agreed that its loading standard could be met at a shallower depth than 4 feet, so long as other protective measures were put in place, such as additional markers, and the companies memorialized in writing any modified methods employed.

Michels then finished contour and clean-up of the site. Michels spent 8 days on this work. This distance would normally take approximately 3 days for these activities in typical open field conditions.

Due to the wet, muddy soil, CHA was unable to reenter the Clay Plains swamp until November 4 and 6 to take final grade depth of cover measurements.

On November 9, 2016, CHA reported to VGS that, for the entire 2016 season, 290 welds were not to depth, including 18 in Clay Plains Swamp. All other measurements in the Clay Plains Swamp met the 4-foot specification.

On November 11, 2016, VGS informed Michels of the depth deficiencies for the 2016 season identified by the surveyor, and Michels proceeded to remediate these locations.

By December 12, 2016, Michels had remediated all of these depth of cover issues except the 18 locations in the Clay Plains Swamp.

Michels informed VGS that it lacked confidence that an attempt to remediate depths in the Clay Plains Swamp locations would be any more successful than it had been during initial installation due to the challenging site conditions. As well, Michels informed VGS that this areas could not be remediated through cover or further contouring due to the environmentally-sensitive area.

Given the practical challenges of working in the Swamp and the environmental concerns, VGS management determined that it would pursue leaving the pipeline interred at installed depth at those locations since VELCO loading standards were achieved at those depths, and by seeking party and regulatory approval for that plan.

Timeline of Post-Installation Communications with VELCO and Department:

- During remediation work in mid-November, VGS informed VELCO that certain locations within the Clay Plains Swamp did not meet 4-foot planned installation depth according to survey measurements.
- On December 1, 2016, VGS updated the Department's gas engineer regarding its depth of cover survey results and remediation, including the locations in the Clay Plains Swamp.
- During the week of December 28, VGS discussed the "leave in place" option with the Department's public advocacy staff.
- On January 3, 2017, VGS spoke in detail with the Department engineer regarding all the 18 locations in the Clay Plains Swamp, the work involved in installing the pipeline, and the decision to pursue leaving the pipeline as is with Department support if VELCO agrees.
- January through April 25, 2017: VGS works with VELCO to determine whether it agrees to leaving pipe as installed given loading satisfaction. VELCO provides letter of approval to leave in place on April 25, 2017. Letter is provided to Department on April 26, 2017.
- This letter and the engineering analysis performed in May 2016 that showed VELCO's loading standard would be met with depths at 3 feet was provided to the Department on April 26, 2017 for review by the Department gas engineer and Dave Berger, the Department independent engineering consultant.
- June 2, 2017, VGS files NSC with Commission to seek confirmation that leaving the pipe in place as installed while meeting loading factor is a non-substantial change to the CPG.

FINDINGS AND ROOT CAUSE

Contributing Factors:

- Muddy soil conditions in Clay Plains Swamp, wetter and deeper than had been expected
- Apparent settling of the wet soils after construction

Root Cause:

• The soils in the Clay Plains Swamp were deep and wet, resulting in the inability to maintain trench stability while installing the pipeline along its entire length

Root Cause Summary:

• Contractor encountered deep wet muddy conditions during pipeline installation that resulted in the inability to maintain trench stability allowing for 4-foot depth

along entire stretch of Clay Plains Swamp. These conditions contributed to the pipeline not being at 4 feet in 18 locations within the Clay Plains Swamp.

FOLLOW-UP ACTION

See above description of communication and analysis regarding loading factor with VELCO during and after installation, and communications with Department. VGS will adhere to additional protocols as reflected in VELCO's letter of April 25, 2016 and the Department's June 23, 2016 filing regarding these locations.

Pending PUC approval of the NSC, no additional follow up is required at this time.

From: Peter W. Lind [mailto:PLIND@velco.com]
Sent: Wednesday, September 21, 2016 5:21 AM
To: John St.Hilaire < isthilaire@vermontgas.com>

Cc: John Stamatov (US - Advisory) (john.r.stamatov@pwc.com) <john.r.stamatov@pwc.com>; Reagan, Michael J (Michael.Reagan@mottmac.com) < Michael.Reagan@mottmac.com>; Brian Connaughton < BCONNAUGHTON@velco.com>; Mike Fiske < MFISKE@velco.com>; Mark Sciarrotta < MSCIARROTTA@velco.com>; Eric Frazer (efrazer@ececnh.com) < efrazer@ececnh.com>

Subject: Vermont Gas Project - Clay Plains Issue - VELCO K43 Structures 262 - 263

Good morning John.

Thank you for the follow-up responses and information on the issues you are having in obtaining the 4' foot burial depth of the gas pipeline in the Clay Plains area along VELCO's K43 transmission line between structures 262 and 263. Based upon this information and our discussions yesterday afternoon; VELCO agrees for you to move forward with the installation of the gas pipeline at less than the agreed upon 4' depth in this area with the following conditions as we discussed:

- VGS to document the specific area where the pipe is not going to be installed at the agreed upon 4' depth (Survey, pictures, as-built drawings, etc.).
- VGS will use all reasonable measures to maximize and maintain the loading factor to the HS-20 &15% as possible with concrete coatings and other measures, etc.
- VGS to confirm with PE engineering analysis that the HS-20 & 15% loading factor will be obtained and maintained at this location with the diminished burial depth.
- Additional VGS standard yellow location markers will be installed over the pipeline every 50 feet at this Clay Plains area for the estimated 300 feet section such that it is visibly marked.
- VELCO and VGS will memorialize this specific variance from our established agreement for the standard installation of the gas pipeline at four feet along the VELCO ROW and access roads.

I trust that this correctly represents the issues we addressed and agreed to in our discussion. Please review and confirm. Thanks John.

Best regards,

Peter

Peter W. Lind Senior Project Manager Vermont Electric Power Company 366 Pinnacle Ridge Road Rutland, VT 05701

Tel: (802) 770-6292

Mobile: (802) 353-0418 Fax: (802) 770-6449 plind@velco.com www.velco.com

From: John St.Hilaire [mailto:jsthilaire@vermontgas.com]

Sent: Tuesday, September 20, 2016 12:26 PM

To: Peter W. Lind

Cc: Brian Connaughton; john.r.stamatov@pwc.com; Reagan, Michael J (Michael.Reagan@mottmac.com)

Subject: FW: Draft VELCO compaction reply

Hi Peter.

Thanks for the call today. We appreciate your team working expeditiously to review this issue for us. You asked for documentation on compaction for this line. I am attaching a compaction report from Mott McDonald that indicates the compaction of HS20+15% can be met with our 12" pipe specifications with all soils at a depth of 3' or greater. The pipe in the affected area is concrete coated which will only increase the loading capacity of the pipe.

The details of the field conditions were conveyed by Mike Reagan via e-mail on 9/19/16.

We will plan to install line markers every 50'in the affected area if the 3' of cover is approved.

Should you have further questions, please let us know.

John St.Hilaire

Project Name: Vermont Gas Systems 5/25/2016

Location: Burlington, VT Rev. 1

<u>Prepared for</u>: Vermont Gas Systems

Prepared by: Mott MacDonald

Purpose:

Mott MacDonald has prepared the stress calculations included herein for Vermont Gas Systems, to ensure the pipeline's integrity under loading without compaction of backfill. The stress calculations were performed per API 1102, using various combinations of soil type and depth of cover to confirm that 90% compaction will not be necessary.

Knowns:

- Class 3 Location, Design Factor of 0.5
- 12.75 inch OD
- 0.312 inch WT
- API-5L Electric Resistance Welded
- Grade X-65
- MAOP of 1440 psi
- Design Wheel Load HS-20 + 15%

Results:

A summary table has been provided below. The stress calculations show that under all soil types, paired with 3', 4', and 5' of cover, the pipeline passes all stress checks (Hoop, Effective, Girth Weld, and Longitudinal Weld). In conclusion, Mott MacDonald recommends a minimum depth of cover of 4 feet. Although 3 feet of cover is sufficient under the given loading, a one foot buffer would help ensure that even if settlement were to occur, the pipeline would remain safe and operational.

| API 1102 STRESS CALCULATION RESULTS | | | | | | |
|---|----------|----------|----------|--|--|--|
| Calculated Effective Stress (psi | | | | | | |
| Soil type | 3' Cover | 4' Cover | 5' Cover | | | |
| Soft to medium clays and silts with high plasticities | 31,239 | 31,437 | 31,234 | | | |
| Soft to medium clays and silts with low/medium plasticities | 31,180 | 31,370 | 31,159 | | | |
| Loose sands and gravels | 30,360 | 30,550 | 30,427 | | | |
| Stiff to very stiff clays and silts | 30,216 | 30,366 | 30,193 | | | |
| Medium dense sands and gravels | 30,278 | 30,453 | 30,318 | | | |
| Dense to very dense sands and gravels | 29,422 | 29,554 | 29,437 | | | |
| ALLOWABLE EFFECTIVE STRESS (psi) | | 32,500 | | | | |

Note:

1. Calculated girth weld and longitudinal weld stress values were less than the allowable (Girth: 6,000 psi & Long. Welds: 11,500 psi).



Calculation cover sheet

| Project Title: | VERMONT GA | S SYSTEMS PI | roject No: | 351481KK | .01 | | | |
|--|---|--|--|------------------------|---------|--|--|--|
| File No: | | | o. of Sheets: | 18 | | | | |
| Section: | | S | ubject: | • | | | | |
| Calc No: | | 2 | | | | | | |
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| Design Phase: | A - Concept or prelimi | nary C | - Design verifica | ion | | | | |
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Distribution:

Original to project file



| Project | | |
|---------------------|-----------|---|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | < |

| API 1102 - Gas Pipeline Crossing Highway | | | | | | | | |
|--|-----------------------------|------------|----------|------------------------|-----------------------------|-----------------|------|----------|
| PIPE AND OPERATIONAL DATA: | SITE AND INSTALLATION DATA: | | | | | | | |
| Operating Pressure [psi] | 1440 | Soil Ty | | | nedium clay | s and silts | with | h high |
| Location Class: | 3 | E' - Mo | | plasticition of Soil R | es eaction [ksi |] | 0.: | 2 |
| Operating Temperature [°F] | 60.0 | Er - Re | esilient | Modulus | s [ksi] | - | 5. | o |
| Pipe Outside Diameter [in] | 12.75 | Averag | ge Unit | Weight | of Soil [lb/ft ^s | ³] | 12 | 20.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe D | epth [f | t] | - | | 3 | |
| Pipe Grade: X65 | | Bored | Diame | ter [in] | | | 12 | 2.75 |
| Specified Minimum Yield Stress | 65,000 | Installa | ationTe | mperatu | re [°F] | | 60 | 0.0 |
| Design Factor | 0.50 | Design | n Whee | el Load fr | om Single / | Axle [kips] | | 18.4 |
| Longitudinal Joint Factor | 1.0 | | | | om Tanden | | os] | 18.4 |
| Temperature Derating Factor | 1.000 | _ | | pe: Non | | | · | |
| Pipe Class: API 5L Electric Res | istance Welded | | | | I: ASCE - H | lighway | | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | | 0 , | | |
| Poisson's Ratio for Steel | 0.30 | | | | | | | |
| Coefficient of Thermal Expansion [p | oer°F] 0.0000065 | Safety | Factor | Applied | : API 1102 | 2 Procedur | е | |
| RESULTS | | | | | | | | |
| Hoop Stress [psi] | | 29,423 | Maxi | mum Cir | cumferentia | al Stress [p | si] | 34,305 |
| Allowable Hoop Stress [psi] | | 32,500 | Maxii | mum Lor | ngitudinal S | tress [psi] | | 12,239 |
| Stiffness Factor for Earth Load Circ | umferential Stress | 2,196 | Maxi | mum Ra | dial Stress | [psi] | | -1,440 |
| Burial Factor for Earth Load Circum | ferential Stress | 0.83 | Total | Effective | e Stress [ps | si] | | 31,239 |
| Excavation Factor for Earth Load C | ircumferential Stress | 0.83 | Allow | able Effe | ective Stres | s [psi] | | 32,500 |
| Circumferential Stress from Earth L | oad [psi] | 1,331 | | | | | | |
| Impact Factor | | 1.50 | Stres | s [psi] | Calculated | Allowable | PA | SS/FAIL |
| Highway Stiffness Factor for Cyclic | Circumferential | 16.60 | Hoop | | 29,423 | 32,500 | PA | |
| Highway Geometry Factor for Cyclic | c Circumferential | 1.22 | Effec | Welds | 31,239 | 32,500 6,000 | | SS SS |
| Cyclic Circumferential Stress [psi] | | 4,271 | | . Welds | 4,271 | 11,500 | | SS |
| Highway Stiffness Factor for Cyclic | Longitudinal Stress | 13.20 | | | • | • | | |
| Highway Geometry Factor for Cyclic | Longitudinal Stress | 1.16 | | | | | | |
| Cyclic Longitudinal Stress [psi] | | 3,229 | | | | | | |
| Notes: Open cut construction, calcu | lations run using HS. | .20 loadin | a + 15 | 0/2 | | | | |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

Prepared By Kelsey Kibbe Approved By Revision: 13.0.1

| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

| PIPE AND OPERATIONAL DATA: | | SITE A | ND IN | STALLA | TION DATA | A : | |
|--|------------------------|---------------|-----------------|---------------|-----------------------------|-----------------|--------------|
| Operating Pressure [psi] | 1440 | Soil Ty | | Soft to m | nedium clay | s and silts | with high |
| Location Class: | 3 | E' - Mo | | | es eaction [ksi |] | 0.2 |
| Operating Temperature [°F] | 60.0 | Er - Re | silient | Modulus | [ksi] | | 5.0 |
| Pipe Outside Diameter [in] | 12.75 | Averag | e Unit | Weight o | of Soil [lb/ft ^s | '] | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe D | epth [ft | <u>:</u>] | | | 4 |
| Pipe Grade: X65 | | Bored | Diame | ter [in] | | | 12.75 |
| Specified Minimum Yield Stress | 65,000 | Installa | tionTe | mperatu | re [°F] | | 60.0 |
| Design Factor | 0.50 | Design | Whee | l Load fr | om Single / | Axle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design | Whee | l Load fr | om Tanden | n Axles [kip | os] 18.4 |
| Temperature Derating Factor | 1.000 | Pavem | ent Ty | pe: Non | е | | |
| Pipe Class: API 5L Electric Re | sistance Welded | Impact | Factor | r Method | : ASCE - H | lighway | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | | | |
| Poisson's Ratio for Steel | 0.30 | | | | A 50 4 4 6 | | |
| Coefficient of Thermal Expansion | per°F] 0.0000065 | Safety | Factor | Applied: | API 110 | 2 Procedur | е |
| RESULTS | | | | | | | |
| Hoop Stress [psi] | | 29,423 | Maxii | mum Cir | cumferentia | al Stress [p: | si] 34,52 |
| Allowable Hoop Stress [psi] | | 32,500 | Maxii | mum Lor | ngitudinal S | tress [psi] | 12,30 |
| Stiffness Factor for Earth Load Cir | cumferential Stress | 2,196 | Maxi | mum Ra | dial Stress | [psi] | -1,440 |
| Burial Factor for Earth Load Circur | nferential Stress | 0.97 | Total | Effective | e Stress [ps | si] | 31,43 |
| Excavation Factor for Earth Load (| Circumferential Stress | 0.83 | Allow | able Effe | ective Stres | s [psi] | 32,50 |
| Circumferential Stress from Earth | Load [psi] | 1,555 | | | | | |
| Impact Factor | | 1.50 | | s [psi] | | Allowable | |
| | | | Hoop | | 29,423 | 32,500 | PASS |
| Highway Stiffness Factor for Cyclic | Circumferential | 16.60 | | tivo | 31 // 37 | 32 500 | IPASS |
| Highway Stiffness Factor for Cyclic Highway Geometry Factor for Cyc | | 16.60 1.22 | Effec | tive Welds | 31,437 3,229 | 32,500 6,000 | PASS PASS |
| • | | | Effect Girth | | | | |
| Highway Geometry Factor for Cyc | ic Circumferential | 1.22 | Effect Girth | Welds | 3,229 | 6,000 | PASS |
| Highway Geometry Factor for Cyc Cyclic Circumferential Stress [psi] | ic Circumferential | 1.22 4,271 | Effect Girth | Welds | 3,229 | 6,000 | PASS |

| Project | |
|---------------------|-----------|
| Vermont Gas Systems | |
| Location | Date |
| Burlington, VT | 5/24/2016 |

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|------------------------------------|------------------|----------------|--|------------|
| PIPE AND OPERATIONAL DATA: | | SITE AND IN | NSTALLATION DATA: | |
| Operating Pressure [psi] | 1440 | Soil Type: | Soft to medium clays and silts | with high |
| Location Class: | 3 | E' - Modulus | plasticities of Soil Reaction [ksi] | 0.2 |
| Operating Temperature [°F] | 60.0 | Er - Resilient | t Modulus [ksi] | 5.0 |
| Pipe Outside Diameter [in] | 12.75 | Average Uni | t Weight of Soil [lb/ft³] | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe Depth [| ft] | 5 |
| Pipe Grade: X65 | | Bored Diame | eter [in] | 12.75 |
| Specified Minimum Yield Stress | 65,000 | InstallationTe | emperature [°F] | 60.0 |
| Design Factor | 0.50 | | el Load from Single Axle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | | el Load from Tandem Axles [kip | os] 18.4 |
| Temperature Derating Factor | 1.000 | Pavement Ty | ype: None | · |
| Pipe Class: API 5L Electric Res | sistance Welded | Impact Facto | or Method: ASCE - Highway | |
| Young's Modulus for Steel [ksi] | 30,000 | | • , | 4 |
| Poisson's Ratio for Steel | 0.30 | | | |
| Coefficient of Thermal Expansion [| per°F] 0.0000065 | Safety Facto | r Applied: API 1102 Procedur | e |
| RESULTS | | | | |
| Hoop Stress [psi] | : | 29,423 Max | imum Circumferential Stress [p | si] 34,285 |
| | | | | |

| Allowable Hoop Stress [psi] 32,500 Maximum Longitudinal Stress [psi] 12,136 Stiffness Factor for Earth Load Circumferential Stress 2,196 Maximum Radial Stress [psi] -1,440 Burial Factor for Earth Load Circumferential Stress 1.08 Total Effective Stress [psi] 31,234 Excavation Factor for Earth Load Circumferential Stress 0.83 Allowable Effective Stress [psi] 32,500 Circumferential Stress from Earth Load [psi] 1,732 Impact Factor 1.50 Stress [psi] Calculated Allowable PASS/FAIL | Hoop Stress [psi] | 29,423 | 3 Maximum Cir | Maximum Circumferential Stress [psi | | |) |
|--|--|------------------------|----------------|-------------------------------------|---------------------------------------|-----------|---|
| Burial Factor for Earth Load Circumferential Stress 1.08 Total Effective Stress [psi] 31,234 Excavation Factor for Earth Load Circumferential Stress 0.83 Allowable Effective Stress [psi] 32,500 Circumferential Stress from Earth Load [psi] 1,732 | Allowable Hoop Stress [psi] | 32,500 | Maximum Lo | Maximum Longitudinal Stress [psi] | | | , |
| Excavation Factor for Earth Load Circumferential Stress 0.83 Allowable Effective Stress [psi] 32,500 Circumferential Stress from Earth Load [psi] 1,732 | Stiffness Factor for Earth Load Circumfe | erential Stress 2,196 | Maximum Ra | idial Stress [| psi] | -1,440 | |
| Circumferential Stress from Earth Load [psi] 1,732 | Burial Factor for Earth Load Circumfere | ntial Stress 1.08 | Total Effectiv | Total Effective Stress [psi] | | | |
| | Excavation Factor for Earth Load Circur | nferential Stress 0.83 | Allowable Eff | Allowable Effective Stress [psi] | | | i |
| Impact Factor 1.50 Stress [psi] Calculated Allowable PASS/FAIL | Circumferential Stress from Earth Load | [psi] 1,732 | | - 2 | | | |
| | Impact Factor | 1.50 | Stress [psi] | Calculated | Allowable | PASS/FAIL | - |
| Highway Stiffness Factor for Cyclic Circumferential 16.60 Hoop 29,423 32,500 PASS | Highway Stiffness Factor for Cyclic Circ | umferential 16.60 | | <u> </u> | · · · · · · · · · · · · · · · · · · · | | |

| past astor | 1.00 | or ooc [boil | Odiodiatod | / IIIOWADIO | 17100/17112 |
|---|-------|--------------|------------|-------------|-------------|
| Highway Stiffness Factor for Cyclic Circumferential | 16.60 | Ноор | 29,423 | 32,500 | PASS |
| • | | Effective | 31,234 | 32,500 | PASS |
| Highway Geometry Factor for Cyclic Circumferential | 1.10 | Girth Welds | 3,006 | 6,000 | PASS |
| Cyclic Circumferential Stress [psi] | 3,850 | Long. Welds | 3,850 | 11,500 | PASS |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 13.20 | | | | |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Highway Geometry Factor for Cyclic Longitudinal Stress 1.08

Cyclic Longitudinal Stress [psi]

| Prepared By | Kelsey Kibbe | Approved By | Revision: 13.0.1 |
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| Project | |
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| Vermont Gas Systems | |
| Location | Date |
| Burlington, VT | 5/24/2016 |

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|-------------------------------------|------------------------|----------|--|----------------------|--------------------------------|------------------|--------------|
| PIPE AND OPERATIONAL DATA: | | SITE A | ND IN | ISTALLA ⁻ | TION DATA | | |
| Operating Pressure [psi] | 1440 | Soil Typ | il Type: Soft to medium clays and silts with | | | with | |
| Location Class: | 3 | E' - Mo | dulus | | ium plasticit eaction [ksi] | | 0.5 |
| Operating Temperature [°F] | 60.0 | Er - Re | silient | Modulus | [ksi] | | 5.0 |
| Pipe Outside Diameter [in] | 12.75 | Averag | e Unit | : Weight o | of Soil [lb/ft³] | | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe De | epth [1 | t] | | | 3 |
| Pipe Grade: X65 | | Bored [| Diame | eter [in] | | | 12.75 |
| Specified Minimum Yield Stress | 65,000 | Installa | tionTe | emperatui | re [°F] | | 60.0 |
| Design Factor | 0.50 | Design | Whee | el Load fro | om Single A | xle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design | Whe | el Load fro | om Tandem | Axles [kip | s] 18.4 |
| Temperature Derating Factor | 1.000 | Pavem | ent Ty | pe: None | е | | |
| Pipe Class: API 5L Electric Re | sistance Welded | Impact | Facto | r Method | : ASCE - H | ighway | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | | | |
| Poisson's Ratio for Steel | 0.30 | | | | | | |
| Coefficient of Thermal Expansion | per°F] 0.0000065 | Safety | Facto | r Applied: | API 1102 | ! Procedur | е |
| RESULTS | | | | | | | |
| Hoop Stress [psi] | | 29,423 | Max | mum Circ | cumferentia | Stress [p: | si] 34,239 |
| Allowable Hoop Stress [psi] | | 32,500 | Max | mum Lor | ngitudinal St | ress [psi] | 12,219 |
| Stiffness Factor for Earth Load Cir | cumferential Stress | 2,088 | Max | mum Rad | dial Stress [| psi] | -1,440 |
| Burial Factor for Earth Load Circur | nferential Stress | 0.83 | Tota | l Effective | Stress [psi |] | 31,180 |
| Excavation Factor for Earth Load (| Circumferential Stress | 0.83 | Allov | vable Effe | ective Stress | s [psi] | 32,500 |
| Circumferential Stress from Earth | Load [psi] | 1,265 | | | | | |
| Impact Factor | | 1.50 | | ss [psi] | | | PASS/FAIL |
| Highway Stiffness Factor for Cyclic | : Circumferential | 16.60 | Hoop | | 29,423 31,180 | 32,500 32,500 | PASS PASS |
| Highway Geometry Factor for Cycl | ic Circumferential | 1.22 | | Welds | 3,229 | 6,000 | PASS |
| Cyclic Circumferential Stress [psi] | | 4,271 | | | 4,271 | 11,500 | PASS |
| Highway Stiffness Factor for Cyclic | Longitudinal Stress | 13.20 | ** | | - | | |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Highway Geometry Factor for Cyclic Longitudinal Stress 1.16

Cyclic Longitudinal Stress [psi]

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
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| Project | | |
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| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

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| s 0.5 |
| 5.0 |
| 120.00 |
| 4 |
| 12.75 |
| 60.0 |
| e [kips] 18.4 |
| xxles [kips] 18.4 |
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| Procedure |
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| |
| Stress [psi] 34,453 |
| Stress [psi] 34,453 ss [psi] 12,284 |
| |
| ss [psi] 12,284 |
| ss [psi] 12,284 ii] -1,440 |
| ss [psi] 12,284 ii] -1,440 31,370 |
| ss [psi] 12,284 ii] -1,440 31,370 |
| ss [psi] 12,284 ii] -1,440 31,370 psi] 32,500 lowable PASS/FAIL 2,500 PASS |
| ss [psi] 12,284 ii] -1,440 31,370 psi] 32,500 lowable PASS/FAIL 2,500 PASS 2,500 PASS |
| ss [psi] 12,284 ii] -1,440 31,370 psi] 32,500 lowable PASS/FAIL 2,500 PASS |
| ss [psi] 12,284 ii] -1,440 31,370 psi] 32,500 lowable PASS/FAIL 2,500 PASS 2,500 PASS 000 PASS |
| |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Cyclic Longitudinal Stress [psi]

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
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| Project | |
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| Vermont Gas Systems | |
| Location | Date |
| Burlington, VT | 5/24/2016 |

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|----------------------------------|-------------------|--|---|-------------|--|
| PIPE AND OPERATIONAL DATA | | SITE AND | INSTALLATION DATA: | | |
| Operating Pressure [psi] 1440 | | Soil Type: Soft to medium clays and silts with | | | |
| Location Class: | 3 | E' - Modul | low/medium plasticities us of Soil Reaction [ksi] | 0.5 | |
| Operating Temperature [°F] | 60.0 | | ent Modulus [ksi] | 5.0 | |
| Pipe Outside Diameter [in] | 12.75 | | Jnit Weight of Soil [lb/ft³] | 120.00 | |
| Pipe Wall Thickness [in] | 0.312 | Pipe Dept | | 5 | |
| Pipe Grade: X65 | | Bored Dia | | 12.75 | |
| Specified Minimum Yield Stress | 65,000 | | nTemperature [°F] | 60.0 | |
| Design Factor | 0.50 | | heel Load from Single Axle [kips] | 18.4 | |
| Longitudinal Joint Factor | 1.0 | Design W | heel Load from Tandem Axles [k | ips] 18.4 | |
| Temperature Derating Factor | 1.000 | Pavement | t Type: None | | |
| Pipe Class: API 5L Electric Re | sistance Welded | Impact Fa | ctor Method: ASCE - Highway | | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | |
| Poisson's Ratio for Steel | 0.30 | | | | |
| Coefficient of Thermal Expansion | [per°F] 0.0000065 | Safety Fa | ctor Applied: API 1102 Procedu | ire | |
| RESULTS | | | | | |
| Hoop Stress [psi] | | 29,423 M | aximum Circumferential Stress [| osi] 34,200 | |
| Allowable Hoop Stress [psi] | | 32,500 M | aximum Longitudinal Stress [psi] | 12,111 | |

| Hoop Stress [psi] | 29,423 | Maximum Circ | cumferentia | l Stress |
|---|--------|-----------------|---------------|----------|
| Allowable Hoop Stress [psi] | 32,500 | Maximum Lon | gitudinal St | ress [p |
| Stiffness Factor for Earth Load Circumferential Stress | 2,088 | Maximum Rad | dial Stress [| psi] |
| Burial Factor for Earth Load Circumferential Stress | 1.08 | Total Effective | Stress [psi | i] |
| Excavation Factor for Earth Load Circumferential Stress | 0.83 | Allowable Effe | ctive Stress | s [psi] |
| Circumferential Stress from Earth Load [psi] | 1,647 | | | |
| Impact Factor | 1.50 | Stress [psi] | Calculated | Allowa |
| Highway Stiffness Factor for Cyclic Circumferential | 16.60 | Ноор | 29,423 | 32,500 |
| • • | 4.40 | Effective | 31,159 | 32,500 |
| Highway Geometry Factor for Cyclic Circumferential | 1.10 | Girth Welds | 3,006 | 6,000 |
| Cyclic Circumferential Stress [psi] | 3,850 | Long. Welds | 3,850 | 11,500 |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 13.20 | | | |

| Stress [psi] | Calculated | Allowable | PASS/FAIL | |
|--------------|------------|-----------|-----------|--|
| Ноор | 29,423 | 32,500 | PASS | |
| Effective | 31,159 | 32,500 | PASS | |
| Girth Welds | 3,006 | 6,000 | PASS | |
| Long. Welds | 3,850 | 11,500 | PASS | |

-1,440 31,159

32,500

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Highway Geometry Factor for Cyclic Longitudinal Stress 1.08

Cyclic Longitudinal Stress [psi]

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
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| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

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|----------------------------------|-------------------|---|--------------|
| PIPE AND OPERATIONAL DATA | : | SITE AND INSTALLATION DATA: | |
| Operating Pressure [psi] | 1440 | Soil Type: Loose sands and gravels | |
| Location Class: | 3 | E' - Modulus of Soil Reaction [ksi] | 0.5 |
| Operating Temperature [°F] | 60.0 | Er - Resilient Modulus [ksi] | 10.0 |
| Pipe Outside Diameter [in] | 12.75 | Average Unit Weight of Soil [lb/ft³] | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe Depth [ft] | 3 |
| Pipe Grade: X65 | | Bored Diameter [in] | 12.75 |
| Specified Minimum Yield Stress | 65,000 | InstallationTemperature [°F] | 60.0 |
| Design Factor | 0.50 | Design Wheel Load from Single Axle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design Wheel Load from Tandem Axles [kip | s] 18.4 |
| Temperature Derating Factor | 1.000 | Pavement Type: None | |
| Pipe Class: API 5L Electric Re | esistance Welded | Impact Factor Method: ASCE - Highway | |
| Young's Modulus for Steel [ksi] | 30,000 | 4 | |
| Poisson's Ratio for Steel | 0.30 | | |
| Coefficient of Thermal Expansion | [per°F] 0.0000065 | Safety Factor Applied: API 1102 Procedure |) |
| RESULTS | | | |

| Hoop Stress [psi] | 29,423 | Maximum Circ | cumferentia | l Stress [p: | si] 33,209 |
|---|--------|-----------------|---------------|--------------|------------|
| Allowable Hoop Stress [psi] | 32,500 | Maximum Lon | gitudinal St | ress [psi] | 11,265 |
| Stiffness Factor for Earth Load Circumferential Stress | 2,088 | Maximum Rad | dial Stress [| psi] | -1,440 |
| Burial Factor for Earth Load Circumferential Stress | 0.83 | Total Effective | Stress [ps | i] | 30,360 |
| Excavation Factor for Earth Load Circumferential Stress | 0.83 | Allowable Effe | ctive Stress | s [psi] | 32,500 |
| Circumferential Stress from Earth Load [psi] | 1,265 | | | | |
| Impact Factor | 1.50 | Stress [psi] | Calculated | Allowable | PASS/FAIL |
| Highway Stiffness Factor for Cyclic Circumferential | 12.60 | Ноор | 29,423 | 32,500 | PASS |
| | | | | | |

| Highway Stiffness Factor for Cyclic Circumferential | 12.60 | Ноор | 29,423 | 32,500 | PASS |
|---|-------|-------------|--------|--------|------|
| • . | | Effective | 30,360 | 32,500 | PASS |
| Highway Geometry Factor for Cyclic Circumferential | 1.22 | Girth Welds | 2,275 | 6,000 | PASS |
| Cyclic Circumferential Stress [psi] | 3,241 | Long. Welds | 3,241 | 11,500 | PASS |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 9.30 | | | | |

Highway Geometry Factor for Cyclic Longitudinal Stress 1.16 Cyclic Longitudinal Stress [psi] 2,275

Notes: Open cut construction, calculations run using HS-20 loading + 15%

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
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|--------------------------|-------------|------------------|

| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

| PIPE AND OPERATIONAL DATA | : | SITE AND INSTALLATION DATA: | |
|----------------------------------|-------------------|---|---------|
| Operating Pressure [psi] | 1440 | Soil Type: Loose sands and gravels | |
| Location Class: | 3 | E' - Modulus of Soil Reaction [ksi] | 0.5 |
| Operating Temperature [°F] | 60.0 | Er - Resilient Modulus [ksi] | 10.0 |
| Pipe Outside Diameter [in] | 12.75 | Average Unit Weight of Soil [lb/ft³] | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe Depth [ft] | 4 |
| Pipe Grade: X65 | | Bored Diameter [in] | 12.75 |
| Specified Minimum Yield Stress | 65,000 | InstallationTemperature [°F] | 60.0 |
| Design Factor | 0.50 | Design Wheel Load from Single Axle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design Wheel Load from Tandem Axles [kip | s] 18.4 |
| Temperature Derating Factor | 1.000 | Pavement Type: None | |
| Pipe Class: API 5L Electric Re | esistance Welded | Impact Factor Method: ASCE - Highway | |
| Young's Modulus for Steel [ksi] | 30,000 | | |
| Poisson's Ratio for Steel | 0.30 | | |
| Coefficient of Thermal Expansion | [per°F] 0.0000065 | Safety Factor Applied: API 1102 Procedur | e |

RESULTS

| Hoop Stress [psi] | 29,423 | Maximum Circ | cumferentia | l Stress [p | si] 33,423 |
|---|--------|-----------------|---------------|-------------|------------|
| Allowable Hoop Stress [psi] | 32,500 | Maximum Lon | gitudinal St | ress [psi] | 11,330 |
| Stiffness Factor for Earth Load Circumferential Stress | 2,088 | Maximum Rad | dial Stress [| psi] | -1,440 |
| Burial Factor for Earth Load Circumferential Stress | 0.97 | Total Effective | Stress [ps | i] | 30,550 |
| Excavation Factor for Earth Load Circumferential Stress | 0.83 | Allowable Effe | ctive Stress | s [psi] | 32,500 |
| Circumferential Stress from Earth Load [psi] | 1,479 | | | | |
| Impact Factor | 1.50 | Stress [psi] | Calculated | Allowable | PASS/FAIL |
| Highway Stiffness Factor for Cyclic Circumferential | 12.60 | Ноор | 29,423 | 32,500 | PASS |
| | | Effective | 30,550 | 32,500 | PASS |
| Highway Geometry Factor for Cyclic Circumferential | 1.22 | Girth Welds | 2,275 | 6,000 | PASS |
| Cyclic Circumferential Stress [psi] | 3,241 | Long. Welds | 3,241 | 11,500 | PASS |

| Highway Geometry Factor for Cyclic Longitudinal Stress | 1.16 |
|--|-------|
| Cyclic Longitudinal Stress [psi] | 2,275 |

Highway Stiffness Factor for Cyclic Longitudinal Stress 9.30

Notes: Open cut construction, calculations run using HS-20 loading + 15%

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
|--------------------------|-------------|------------------|
|--------------------------|-------------|------------------|

| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

| PIPE AND OPERATIONAL DATA | : | SITE AND INSTALLATION DATA: | |
|----------------------------------|-------------------|---|---------|
| Operating Pressure [psi] | 1440 | Soil Type: Loose sands and gravels | |
| Location Class: | 3 | E' - Modulus of Soil Reaction [ksi] | 0.5 |
| Operating Temperature [°F] | 60.0 | Er - Resilient Modulus [ksi] | 10.0 |
| Pipe Outside Diameter [in] | 12.75 | Average Unit Weight of Soil [lb/ft³] | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe Depth [ft] | 5 |
| Pipe Grade: X65 | | Bored Diameter [in] | 12.75 |
| Specified Minimum Yield Stress | 65,000 | InstallationTemperature [°F] | 60.0 |
| Design Factor | 0.50 | Design Wheel Load from Single Axle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design Wheel Load from Tandem Axles [kip | s] 18.4 |
| Temperature Derating Factor | 1.000 | Pavement Type: None | |
| Pipe Class: API 5L Electric Re | | Impact Factor Method: ASCE - Highway | |
| Young's Modulus for Steel [ksi] | 30,000 | | |
| Poisson's Ratio for Steel | 0.30 | Safety Factor Applied: API 1102 Procedure | 2 |
| Coefficient of Thermal Expansion | [per°F] 0.0000065 | Carety Factor Applied. AFT 1102 FTocedure | - |

RESULTS

| Hoop Stress [psi] | 29,423 | Maximum Circ | cumferentia | Stress [p: | si] 33, | 273 |
|---|--------|-----------------|---------------|------------|---------|-----|
| Allowable Hoop Stress [psi] | 32,500 | Maximum Lor | igitudinal St | ress [psi] | 11, | 223 |
| Stiffness Factor for Earth Load Circumferential Stress | 2,088 | Maximum Rad | dial Stress [| psi] | -1,4 | 440 |
| Burial Factor for Earth Load Circumferential Stress | 1.08 | Total Effective | Stress [ps | i] | 30, | 427 |
| Excavation Factor for Earth Load Circumferential Stress | 0.83 | Allowable Effe | ective Stress | s [psi] | 32, | 500 |
| Circumferential Stress from Earth Load [psi] | 1,647 | | | | | |
| Impact Factor | 1.50 | Stress [psi] | Calculated | Allowable | PASS/F | AIL |
| Highway Stiffness Factor for Cyclic Circumferential | 12.60 | Ноор | 29,423 | · | PASS | |
| Highway Geometry Factor for Cyclic Circumferential | 1.10 | Effective | 30,427 | | PASS | |
| riighway Geometry Factor for Cyclic Circumferential | 1.10 | Girth Welds | 2,118 | 6,000 | PASS | |
| Cyclic Circumferential Stress [psi] | 2,923 | Long. Welds | 2,923 | 11,500 | PASS | |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 9.30 | | | | | |

Highway Geometry Factor for Cyclic Longitudinal Stress 1.08 Cyclic Longitudinal Stress [psi] 2,118

Notes: Open cut construction, calculations run using HS-20 loading + 15%

| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

| PIPE AND OPERATIONAL DATA | : | SITE AND INSTALLATION DATA: | |
|----------------------------------|-------------------|--|---------|
| Operating Pressure [psi] | 1440 | Soil Type: Stiff to very stiff clays and silts | |
| Location Class: | 3 | E' - Modulus of Soil Reaction [ksi] | 1.0 |
| Operating Temperature [°F] | 60.0 | • • | 10.0 |
| Pipe Outside Diameter [in] | 12.75 | | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | | 3 |
| Pipe Grade: X65 | | | 12.75 |
| Specified Minimum Yield Stress | 65,000 | | 60.0 |
| Design Factor | 0.50 | Design Wheel Load from Single Axle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design Wheel Load from Tandem Axles [kips | 3] 18.4 |
| Temperature Derating Factor | 1.000 | Pavement Type: None | |
| Pipe Class: API 5L Electric Re | esistance Welded | Impact Factor Method: ASCE - Highway | |
| Young's Modulus for Steel [ksi] | 30,000 | | |
| Poisson's Ratio for Steel | 0.30 | | |
| Coefficient of Thermal Expansion | [per°F] 0.0000065 | Safety Factor Applied: API 1102 Procedure | |
| RESULTS | | | |

RESULTS

| Hoop Stress [psi] | 29,423 | Maximum Circumferential Stress [psi] | 33,046 |
|---|--------|---|---------|
| Allowable Hoop Stress [psi] | 32,500 | Maximum Longitudinal Stress [psi] | 11,216 |
| Stiffness Factor for Earth Load Circumferential Stress | 1,934 | Maximum Radial Stress [psi] | -1,440 |
| Burial Factor for Earth Load Circumferential Stress | 0.78 | Total Effective Stress [psi] | 30,216 |
| Excavation Factor for Earth Load Circumferential Stress | 0.83 | Allowable Effective Stress [psi] | 32,500 |
| Circumferential Stress from Earth Load [psi] | 1,102 | | |
| Impact Factor | 1.50 | Stress [psi] Calculated Allowable PAS | SS/FAIL |
| | | | |

| Impact Factor | 1.50 | Stress [psi] | Calculated | Allowable | PASS/FAIL |
|---|-------|--------------|------------|-----------|-----------|
| Highway Stiffness Factor for Cyclic Circumferential | 12.60 | Ноор | 29,423 | 32,500 | PASS |
| • | | Effective | 30,216 | 32,500 | PASS |
| lighway Geometry Factor for Cyclic Circumferential | 1.22 | Girth Welds | 2,275 | 6,000 | PASS |
| Cyclic Circumferential Stress [psi] | 3,241 | Long. Welds | 3,241 | 11,500 | PASS |
| Life to 1 Out to a Francis of the Leading Resident | 0.00 | | | | |

| Highway Stiffness Factor for Cyclic Longitudinal Stress | 9.30 |
|---|-------|
| Highway Geometry Factor for Cyclic Longitudinal Stress | 1.16 |
| Cyclic Longitudinal Stress [psi] | 2.275 |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
|--------------------------|-------------|------------------|
|--------------------------|-------------|------------------|

| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

| API 1102 - Gas Pipeline Crossing Highway | | | | | | | | |
|--|-----------------------|----------|--------|-------------|------------------|------------------|--------------|------|
| PIPE AND OPERATIONAL DATA: | | SITE A | ND II | NSTALLA | TION DATA | A: | | |
| Operating Pressure [psi] | 1440 | Soil Ty | pe: | Stiff to v | ery stiff clay | s and silts | | |
| Location Class: | 3 | E' - Mo | dulus | of Soil R | eaction [ksi | 1 | 1.0 | |
| Operating Temperature [°F] | 60.0 | | | t Modulus | - | • | 10.0 | |
| Pipe Outside Diameter [in] | 12.75 | | | | of Soil [lb/ft³ | '] | 120.0 | 00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe De | | _ | | • | 4 | |
| Pipe Grade: X65 | | Bored I | Diame | eter [in] | | | 12.75 | 5 |
| Specified Minimum Yield Stress | 65,000 | Installa | tionTe | emperatu | re [°F] | | 60.0 | |
| Design Factor | 0.50 | Design | Whe | el Load fr | om Single / | Axle [kips] | 18. | 4 |
| Longitudinal Joint Factor | 1.0 | Design | Whe | el Load fr | om Tanden | n Axles [kip | os] 18. | 4 |
| Temperature Derating Factor | 1.000 | Pavem | ent T | ype: Non | е | | | |
| Pipe Class: API 5L Electric Res | sistance Welded | Impact | Facto | or Method | : ASCE - H | lighway | | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | | | | |
| Poisson's Ratio for Steel | 0.30 | Cofoty | F4- | - Alide | ADI 440 | O Dunnandii | _ | |
| Coefficient of Thermal Expansion [p | per°F] 0.0000065 | Safety | racio | r Applied. | API 1102 | 2 Procedur | е | |
| RESULTS | | | | | | | | |
| Hoop Stress [psi] | | 29,423 | Max | imum Cire | cumferentia | al Stress [p | si] 33 | ,215 |
| Allowable Hoop Stress [psi] | 24 | 32,500 | Max | imum Lor | ngitudinal S | tress [psi] | 11 | ,267 |
| Stiffness Factor for Earth Load Circ | umferential Stress | 1,934 | Max | imum Rad | dial Stress | [psi] | -1 | ,440 |
| Burial Factor for Earth Load Circum | ferential Stress | 0.90 | Tota | I Effective | Stress [ps | i] | 30 | ,366 |
| Excavation Factor for Earth Load C | ircumferential Stress | 0.83 | Allov | wable Effe | ective Stres | s [psi] | 32 | ,500 |
| Circumferential Stress from Earth L | oad [psi] | 1,271 | | | | | | |
| Impact Factor | | 1.50 | | ss [psi] | Calculated | | | FAIL |
| Highway Stiffness Factor for Cyclic | Circumferential | 12.60 | Hoop | ctive | 29,423 30,366 | 32,500 32,500 | PASS PASS | |
| Highway Geometry Factor for Cyclic | c Circumferential | 1.22 | | n Welds | 2,275 | 6,000 | PASS | |
| Cyclic Circumferential Stress [psi] | | 3,241 | Long | g. Welds | 3,241 | 11,500 | PASS | |
| Highway Stiffness Factor for Cyclic | Longitudinal Stress | 9.30 | | | | | | |
| Highway Geometry Factor for Cyclic | c Longitudinal Stress | 1.16 | | | | | | |
| Cyclic Longitudinal Stress [psi] | | 2,275 | | | | | | |
| | | | | | | | | |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

Prepared By Kelsey Kibbe Approved By Revision: 13.0.1

| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

| PIPE AND OPERATIONAL DATA | : | SITE AND INSTALLATION DATA: | |
|----------------------------------|-------------------|--|----------|
| Operating Pressure [psi] | 1440 | Soil Type: Stiff to very stiff clays and silts | |
| Location Class: | 3 | E' - Modulus of Soil Reaction [ksi] | 1.0 |
| Operating Temperature [°F] | 60.0 | Er - Resilient Modulus [ksi] | 10.0 |
| Pipe Outside Diameter [in] | 12.75 | Average Unit Weight of Soil [lb/ft³] | 120.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe Depth [ft] | 5 |
| Pipe Grade: X65 | | Bored Diameter [in] | 12.75 |
| Specified Minimum Yield Stress | 65,000 | InstallationTemperature [°F] | 60.0 |
| Design Factor | 0.50 | Design Wheel Load from Single Axle [kips] | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design Wheel Load from Tandem Axles [kip | os] 18.4 |
| Temperature Derating Factor | 1.000 | Pavement Type: None | |
| Pipe Class: API 5L Electric Re | esistance Welded | Impact Factor Method: ASCE - Highway | |
| Young's Modulus for Steel [ksi] | 30,000 | | |
| Poisson's Ratio for Steel | 0.30 | 14 | |
| Coefficient of Thermal Expansion | [per°F] 0.0000065 | Safety Factor Applied: API 1102 Procedur | е |
| RESULTS | | | |

RESULTS

| Hoop Stress [psi] | 29,423 | Maximum Circumferential Stress [psi] 33,010 | |
|---|--------|---|---|
| Allowable Hoop Stress [psi] | 32,500 | Maximum Longitudinal Stress [psi] 11,144 | |
| Stiffness Factor for Earth Load Circumferential Stress | 1,934 | Maximum Radial Stress [psi] -1,440 | |
| Burial Factor for Earth Load Circumferential Stress | 0.98 | Total Effective Stress [psi] 30,193 | |
| Excavation Factor for Earth Load Circumferential Stress | 0.83 | Allowable Effective Stress [psi] 32,500 | |
| Circumferential Stress from Earth Load [psi] | 1,384 | | |
| Impact Factor | 1.50 | Stress [psi] Calculated Allowable PASS/FAIL | |
| | 40.00 | Hoop 29 423 32 500 PASS | 1 |

| impact ractor | 1.50 | Otress [bail | Calculated | MICWADIC | I AOON AIL |
|---|-------|--------------|------------|----------|------------|
| Highway Stiffness Factor for Cyclic Circumferential | 12.60 | Ноор | 29,423 | 32,500 | PASS |
| • | | Effective | 30,193 | 32,500 | PASS |
| Highway Geometry Factor for Cyclic Circumferential | 1.10 | Girth Welds | 2,118 | 6,000 | PASS |
| Cyclic Circumferential Stress [psi] | 2,923 | Long. Welds | 2,923 | 11,500 | PASS |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 9.30 | | | | |

| Highway Stiffness Factor for Cyclic Longitudinal Stress | 9.30 |
|---|-------|
| Highway Geometry Factor for Cyclic Longitudinal Stress | 1.08 |
| Cyclic Longitudinal Stress [psi] | 2,118 |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
|--------------------------|-------------|------------------|
|--------------------------|-------------|------------------|

| Project | | |
|---------------------|-----------|--|
| Vermont Gas Systems | | |
| Location | Date | |
| Burlington, VT | 5/24/2016 | |

| All 1102 - Gas i ipeline Crossing riigilway | | | | | | | | |
|---|------------------------|-----------|---------|-------------|------------------|--------------|----------|------------|
| PIPE AND OPERATIONAL DATA: | | SITE A | ND IN | ISTALLAT | TION DATA | \ : | | |
| Operating Pressure [psi] | 1440 | Soil Typ | e: | Medium | dense sand | ls and grav | /els | |
| Location Class: | 3 | E' - Mod | dulus | of Soil Re | eaction [ksi] | | 1.0 | |
| Operating Temperature [°F] | 60.0 | Er - Res | silient | Modulus | [ksi] | | 10.0 | |
| Pipe Outside Diameter [in] | 12.75 | Average | e Unit | : Weight c | of Soil [lb/ft³] | l | 120.00 | |
| Pipe Wall Thickness [in] | 0.312 | Pipe De | epth [1 | ft] | | _ | 3 | |
| Pipe Grade: X65 | | Bored [| Diame | eter [in] | | | 12.75 | |
| Specified Minimum Yield Stress | 65,000 | Installat | ionTe | emperatur | e [°F] | | 60.0 | |
| Design Factor | 0.50 | Design | Whe | el Load fro | om Single A | xle [kips] | 18.4 | |
| Longitudinal Joint Factor | 1.0 | Design | Whe | el Load fro | om Tandem | n Axles [kip | os] 18.4 | |
| Temperature Derating Factor | 1.000 | Paveme | ent Ty | /pe: None | e | | | |
| Pipe Class: API 5L Electric Res | sistance Welded | Impact | Facto | r Method: | ASCE - H | ighway | | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | | | | |
| Poisson's Ratio for Steel | 0.30 | 0.64 | | A 1: 1 | A DI 4400 | . D I | | |
| Coefficient of Thermal Expansion [| per°F] 0.0000065 | Safety | -acto | r Applied: | API 1102 | 2 Procedur | е | |
| RESULTS | | | | | | | | |
| Hoop Stress [psi] | | 29,423 | Max | imum Circ | cumferentia | l Stress [p | si] 33,1 | 16 |
| Allowable Hoop Stress [psi] | | 32,500 | Max | imum Lon | gitudinal St | ress [psi] | 11,23 | 38 |
| Stiffness Factor for Earth Load Circ | cumferential Stress | 1,934 | Max | imum Rad | dial Stress [| psi] | -1,44 | 10 |
| Burial Factor for Earth Load Circum | nferential Stress | 0.83 | Tota | I Effective | Stress [psi | i] | 30,27 | 78 |
| Excavation Factor for Earth Load C | Circumferential Stress | 0.83 | Allov | vable Effe | ctive Stress | s [psi] | 32,50 | 0 0 |
| Circumferential Stress from Earth L | ₋oad [psi] | 1,172 | | | | | | |
| Impact Factor | | 1.50 | | ss [psi] | Calculated | | | \IL |
| Highway Stiffness Factor for Cyclic | Circumferential | 12.60 | Hoop | | 29,423 | 32,500 | PASS | |

| | | Effective | 30,278 | 32,500 | PASS |
|---|-------|-------------|--------|--------|------|
| Highway Geometry Factor for Cyclic Circumferential | 1.22 | Girth Welds | 2,275 | 6,000 | PASS |
| Cyclic Circumferential Stress [psi] | 3,241 | Long. Welds | 3,241 | 11,500 | PASS |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 9.30 | | | | |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Highway Geometry Factor for Cyclic Longitudinal Stress 1.16

Cyclic Longitudinal Stress [psi]

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
|--------------------------|-------------|------------------|
|--------------------------|-------------|------------------|

| Project | |
|---------------------|-----------|
| Vermont Gas Systems | |
| Location | Date |
| Burlington, VT | 5/24/2016 |

| PIPE AND OPERATIONAL DATA: | | SITE A | ND IN | ISTALLATIO | ON DATA: | | |
|--------------------------------------|------------------------|-----------|---------|---------------|-----------------------|----------|--------|
| Operating Pressure [psi] | 1440 | Soil Typ | e: | Medium de | ense sands and grave | els | |
| Location Class: | 3 | E' - Mod | dulus | of Soil Rea | ction [ksi] | 1.0 | |
| Operating Temperature [°F] | 60.0 | Er - Res | silient | Modulus [k | (Si] | 10.0 |) |
| Pipe Outside Diameter [in] | 12.75 | Average | e Unit | : Weight of | Soil [lb/ft³] | 120. | .00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe De | pth [f | ft] | | 4 | |
| Pipe Grade: X65 | | Bored D |)iame | eter [in] | | 12.7 | '5 |
| Specified Minimum Yield Stress | 65,000 | Installat | ionTe | emperature | [°F] | 60.0 |) |
| Design Factor | 0.50 | Design | Whee | el Load fron | n Single Axle [kips] | 18 | 3.4 |
| Longitudinal Joint Factor | 1.0 | Design | Whee | el Load fron | n Tandem Axles [kip | s] 18 | 3.4 |
| Temperature Derating Factor | 1.000 | Paveme | ent Ty | /pe: None | | | |
| Pipe Class: API 5L Electric Res | sistance Welded | Impact | Facto | or Method: / | ASCE - Highway | | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | | | |
| Poisson's Ratio for Steel | 0.30 | | | | | | |
| Coefficient of Thermal Expansion [| per°F] 0.0000065 | Safety I | -acto | r Applied: | API 1102 Procedure | ; | |
| RESULTS | | | | | • | | |
| Hoop Stress [psi] | | 29,423 | Maxi | imum Circu | mferential Stress [ps | i] 3 | 33,314 |
| Allowable Hoop Stress [psi] | | 32,500 | Maxi | imum Long | itudinal Stress [psi] | 1 | 11,297 |
| Stiffness Factor for Earth Load Circ | cumferential Stress | 1,934 | Maxi | imum Radia | al Stress [psi] | - | 1,440 |
| Burial Factor for Earth Load Circum | nferential Stress | 0.97 | Tota | l Effective S | Stress [psi] | 3 | 30,453 |
| Excavation Factor for Earth Load C | Circumferential Stress | 0.83 | Allov | vable Effec | tive Stress [psi] | 3 | 32,500 |
| | | | | | | | |

| Allowable Hoop Stress [psi] | 32,500 |
|---|--------|
| Stiffness Factor for Earth Load Circumferential Stress | 1,934 |
| Burial Factor for Earth Load Circumferential Stress | 0.97 |
| Excavation Factor for Earth Load Circumferential Stress | 0.83 |
| Circumferential Stress from Earth Load [psi] | 1,370 |
| Impact Factor | 1.50 |
| Highway Stiffness Factor for Cyclic Circumferential | 12.60 |
| Highway Geometry Factor for Cyclic Circumferential | 1.22 |
| Cyclic Circumferential Stress [psi] | 3,241 |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 9.30 |

Highway Geometry Factor for Cyclic Longitudinal Stress 1.16

Cyclic Longitudinal Stress [psi]

| Stress [psi] | Calculated | Allowable | PASS/FAIL |
|--------------|------------|-----------|-----------|
| Ноор | 29,423 | 32,500 | PASS |
| Effective | 30,453 | 32,500 | PASS |
| Girth Welds | 2,275 | 6,000 | PASS |
| Long. Welds | 3,241 | 11,500 | PASS |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

Prepared By Kelsey Kibbe Approved By Revision: 13.0.1

| Project | | |
|---------------------|-----------|---|
| Vermont Gas Systems | | |
| Location | Date | - |
| Burlington, VT | 5/24/2016 | |

| | PIPE AND OPERATIONAL DATA: | | SITE A | ND IN | ISTALLAT | TION DATA | | |
|----|--------------------------------------|------------------------|-----------|---------|------------------|------------------|-------------|--------------|
| | Operating Pressure [psi] | 1440 | Soil Typ | e: | Medium | dense sand | s and grav | els |
| | Location Class: | 3 | E' - Mod | dulus | of Soil Re | eaction [ksi] | | 1.0 |
| | Operating Temperature [°F] | 60.0 | Er - Res | silient | Modulus | [ksi] | | 10.0 |
| | Pipe Outside Diameter [in] | 12.75 | Average | e Uni | t Weight c | of Soil [lb/ft³] | | 120.00 |
| | Pipe Wall Thickness [in] | 0.312 | Pipe De | epth [| ft] | | | 5 |
| | Pipe Grade: X65 | | Bored D | Diame | eter [in] | | | 12.75 |
| | Specified Minimum Yield Stress | 65,000 | Installat | ionTe | emperatur | e [°F] | | 60.0 |
| | Design Factor | 0.50 | Design | Whe | el Load fro | om Single A | xle [kips] | 18.4 |
| | Longitudinal Joint Factor | 1.0 | Design | Whe | el Load fro | om Tandem | Axles [kip | s] 18.4 |
| | Temperature Derating Factor | 1.000 | Paveme | ent T | ype: None | € | | |
| | Pipe Class: API 5L Electric Res | sistance Welded | Impact | Facto | or Method | : ASCE - H | ighway | |
| | Young's Modulus for Steel [ksi] | 30,000 | | | | | | |
| 00 | Poisson's Ratio for Steel | 0.30 | | | | | | |
| | Coefficient of Thermal Expansion [| per°F] 0.0000065 | Safety I | -acto | r Applied: | API 1102 | ! Procedure | € |
| | RESULTS | | | | TW: | | | |
| | Hoop Stress [psi] | | 29,423 | Max | imum Circ | cumferentia | Stress [ps | si] 33,151 |
| | Allowable Hoop Stress [psi] | | 32,500 | Max | imum Lor | ngitudinal St | ress [psi] | 11,186 |
| | Stiffness Factor for Earth Load Circ | cumferential Stress | 1,934 | Max | imum Rad | dial Stress [| psi] | -1,440 |
| | Burial Factor for Earth Load Circum | nferential Stress | 1.08 | Tota | I Effective | Stress [ps | i] | 30,318 |
| | Excavation Factor for Earth Load C | Circumferential Stress | 0.83 | Allo | wable Effe | ective Stress | s [psi] | 32,500 |
| | Circumferential Stress from Earth L | ₋oad [psi] | 1,525 | | | | | |
| | Impact Factor | | 1.50 | Stre | ss [psi] | Calculated | - A | |
| | Highway Stiffness Factor for Cyclic | Circumferential | 12.60 | Hoo | | 29,423 | | PASS |
| | Highway Geometry Factor for Cycli | c Circumferential | 1.10 | | ctive n Welds | 30,318 2,118 | | PASS PASS |
| | Cyclic Circumferential Stress [psi] | | 2,923 | | | 2,923 | | PASS |
| | Highway Stiffness Factor for Cyclic | Longitudinal Stress | 9.30 | | | | | |
| | Highway Geometry Factor for Cycli | ic Longitudinal Stress | 1.08 | | | | | |
| | Cyclic Longitudinal Stress [psi] | | 2,118 | | | | | |
| | | | | | | | | |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

| H | Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
|---|--------------------------|-------------|------------------|
| | | | |

| Project | |
|---------------------|-----------|
| Vermont Gas Systems | |
| Location | Date |
| Burlington, VT | 5/24/2016 |

| 7.1.1.102 Gdo / 1.pom.10 | orocoming ringing | way | | | | | | |
|--------------------------------------|-----------------------|----------|---------|-------------|------------------|--------------|-------|--------|
| PIPE AND OPERATIONAL DATA: | | SITE A | ND IN | NSTALLA | TION DATA | Λ: | | |
| Operating Pressure [psi] | 1440 | Soil Ty | oe: | Dense to | very dense | e sands an | d gr | avels |
| Location Class: | 3 | E' - Mo | dulus | of Soil Re | eaction [ksi] | | 2.0 |) |
| Operating Temperature [°F] | 60.0 | Er - Re | silient | t Modulus | [ksi] | | 20. | .0 |
| Pipe Outside Diameter [in] | 12.75 | Average | e Uni | t Weight c | of Soil [lb/ft³] |] | 120 | 0.00 |
| Pipe Wall Thickness [in] | 0.312 | Pipe De | epth [| ft] | | | 3 | |
| Pipe Grade: X65 | | Bored [| Diame | eter [in] | | | 12. | .75 |
| Specified Minimum Yield Stress | 65,000 | Installa | tionTe | emperatui | re [°F] | | 60. | .0 |
| Design Factor | 0.50 | Design | Whe | el Load fro | om Single A | xle [kips] | 1 | 18.4 |
| Longitudinal Joint Factor | 1.0 | Design | Whe | el Load fro | om Tandem | n Axles [kip | os] 1 | 18.4 |
| Temperature Derating Factor | 1.000 | Paveme | ent T | ype: None | Э | | | |
| Pipe Class: API 5L Electric Res | sistance Welded | Impact | Facto | or Method | : ASCE - H | ighway | | |
| Young's Modulus for Steel [ksi] | 30,000 | | | | | | | |
| Poisson's Ratio for Steel | 0.30 | 0.1.1 | | | A DI 4400 | | | |
| Coefficient of Thermal Expansion [| per°F] 0.0000065 | Safety | racto | r Applied: | API 1102 | 2 Procedur | е | |
| RESULTS | | | | | | | | |
| Hoop Stress [psi] | | 29,423 | Max | imum Circ | cumferentia | Stress [p | si] | 32,060 |
| Allowable Hoop Stress [psi] | | 32,500 | Max | imum Lon | igitudinal St | ress [psi] | | 10,417 |
| Stiffness Factor for Earth Load Circ | cumferential Stress | 1,693 | Max | imum Rad | dial Stress [| psi] | | -1,440 |
| Burial Factor for Earth Load Circum | nferential Stress | 0.78 | Tota | I Effective | Stress [psi | i] ". | | 29,422 |
| Excavation Factor for Earth Load C | ircumferential Stress | 0.83 | Allov | vable Effe | ctive Stress | s [psi] | | 32,500 |
| Circumferential Stress from Earth L | oad [psi] | 964 | | | | | | |
| Impact Factor | | 1.50 | Stre | | Calculated | | | |
| | | | HOOK | ` | ככא מכיו | 22 600 | DAC | ,,, |

| Highway Stiffness Factor for Cyclic Circumferential | 9.30 | Ноор | 29,423 | 32,500 | PASS | 1 |
|---|-------|-------------|--------|--------|------|---|
| , | | Effective | 29,422 | 32,500 | PASS | |
| Highway Geometry Factor for Cyclic Circumferential | 1.22 | Girth Welds | 1,517 | 6,000 | PASS | ٦ |
| Cyclic Circumferential Stress [psi] | 2,393 | Long. Welds | 2,393 | 11,500 | PASS | |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 6.20 | | | | | _ |

Highway Stiffness Factor for Cyclic Longitudinal Stress 6.20
Highway Geometry Factor for Cyclic Longitudinal Stress 1.16
Cyclic Longitudinal Stress [psi] 1,517

Notes: Open cut construction, calculations run using HS-20 loading + 15%

| Prepared By Kelsey Kibbe | Approved By | Revision: 13.0.1 |
|--------------------------|-------------|------------------|
|--------------------------|-------------|------------------|

| Project | | | |
|---------------------|-----------|---|--|
| Vermont Gas Systems | | | |
| Location | Date | 2 | |
| Burlington, VT | 5/24/2016 | | |

| 7.1. 1. 1. 1. 2. Gus i ipolinis si sosilig i lig | ···· y |
|---|--|
| PIPE AND OPERATIONAL DATA: | SITE AND INSTALLATION DATA: |
| Operating Pressure [psi] 1440 | Soil Type: Dense to very dense sands and gravels |
| Location Class: 3 | E' - Modulus of Soil Reaction [ksi] 2.0 |
| Operating Temperature [°F] 60.0 | Er - Resilient Modulus [ksi] 20.0 |
| Pipe Outside Diameter [in] 12.75 | Average Unit Weight of Soil [lb/ft³] 120.00 |
| Pipe Wall Thickness [in] 0.312 | Pipe Depth [ft] 4 |
| Pipe Grade: X65 | Bored Diameter [in] 12.75 |
| Specified Minimum Yield Stress 65,000 | InstallationTemperature [°F] 60.0 |
| Design Factor 0.50 | Design Wheel Load from Single Axle [kips] 18.4 |
| Longitudinal Joint Factor 1.0 | Design Wheel Load from Tandem Axles [kips] 18.4 |
| Temperature Derating Factor 1.000 | Pavement Type: None |
| Pipe Class: API 5L Electric Resistance Welded | Impact Factor Method: ASCE - Highway |
| Young's Modulus for Steel [ksi] 30,000 | |
| Poisson's Ratio for Steel 0.30 | |
| Coefficient of Thermal Expansion [per°F] 0.0000065 | Safety Factor Applied: API 1102 Procedure |
| RESULTS | |
| | |
| Hoop Stress [psi] | 29,423 Maximum Circumferential Stress [psi] 32,209 |
| Allowable Hoop Stress [psi] | 32,500 Maximum Longitudinal Stress [psi] 10,462 |
| Stiffness Factor for Earth Load Circumferential Stress | 1,693 Maximum Radial Stress [psi] -1,440 |
| Burial Factor for Earth Load Circumferential Stress | 0.90 Total Effective Stress [psi] 29,554 |
| Excavation Factor for Earth Load Circumferential Stres | |
| Circumferential Stress from Earth Load [psi] | 1,113 |
| Impact Factor | 1.50 Stress [psi] Calculated Allowable PASS/FAIL Hoop 29,423 32,500 PASS |
| Highway Stiffness Factor for Cyclic Circumferential | Effective 29.554 32.500 PASS |
| Highway Geometry Factor for Cyclic Circumferential | 1.22 Girth Welds 1,517 6,000 PASS |
| Cyclic Circumferential Stress [psi] | 2,393 Long. Welds 2,393 11,500 PASS |
| Highway Stiffness Factor for Cyclic Longitudinal Stress | 6.20 |
| Highway Geometry Factor for Cyclic Longitudinal Stres | |
| Cyclic Longitudinal Stress [psi] | 1,517 |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

Prepared By Kelsey Kibbe Approved By Revision: 13.0.1

| Project | | |
|---------------------|-----------|---|
| Vermont Gas Systems | | |
| Location | Date | 2 |
| Burlington, VT | 5/24/2016 | |

API 1102 - Gas Pipeline Crossing Highway

| | API 1102 - Gas Pipeline Crossing Highway | | | | | | | | |
|--|--|-----------------------|---|--|-------------|------------------|--|--------------|-----------|
| | PIPE AND OPERATIONAL DATA: | | SITE AND INSTALLATION DATA: | | | | | | |
| | Operating Pressure [psi] | 1440 | Soil Typ | oe: | Dense to | very dens | e sands an | d gravels | |
| | Location Class: | 3 | E' - Mod | dulus | of Soil Re | eaction [ksi |] | 2.0 | |
| | Operating Temperature [°F] | 60.0 | Er - Re | silient | t Modulus | [ksi] | | 20.0 | |
| | Pipe Outside Diameter [in] | 12.75 | Average Unit Weight of Soil [lb/ft³] | | 3] | 120.00 | | | |
| | Pipe Wall Thickness [in] | 0.312 | Pipe Depth [ft] | | 5 | | | | |
| | Pipe Grade: X65 | | Bored [| Diame | eter [in] | | | 12.75 | |
| | Specified Minimum Yield Stress | 65,000 | Installat | tionTe | emperatu | re [°F] | | 60.0 | |
| | Design Factor | 0.50 | Design | Design Wheel Load from Single Axle [kips] 18.4 | | | | | |
| | Longitudinal Joint Factor | 1.0 | Design Wheel Load from Tandem Axles [kips] 18.4 | | | | | | |
| | Temperature Derating Factor | 1.000 | Pavement Type: None | | | | | | |
| | Pipe Class: API 5L Electric Res | | Impact Factor Method: ASCE - Highway | | | | | | |
| | Young's Modulus for Steel [ksi] | 30,000 | | | | | | | |
| | Poisson's Ratio for Steel | 0.30 | Safety I | Facto | r Applied | API 110 | 2 Procedur | ·e | |
| | Coefficient of Thermal Expansion [| per°F] 0.0000065 | curety i | uoto | , пррпса. | 7.1110 | E i ioocaai | C | |
| | RESULTS | | | | | | | | |
| | Hoop Stress [psi] | | 29,423 | Max | imum Circ | cumferentia | al Stress [p | si] 32,07 | ′1 |
| | Allowable Hoop Stress [psi] | | 32,500 | Max | imum Lor | ngitudinal S | tress [psi] | 10,38 | 36 |
| Stiffness Factor for Earth Load Circumferential Stress | | 1,693 | Maximum Radial Stress [psi] -1,4 | | -1,44 | 0 | | | |
| | Burial Factor for Earth Load Circum | nferential Stress | 0.98 | Tota | I Effective | Stress [ps | si] | 29,43 | 37 |
| | Excavation Factor for Earth Load C | ircumferential Stress | 0.83 | Allov | wable Effe | ective Stres | s [psi] | 32,50 | 0 |
| | Circumferential Stress from Earth L | oad [psi] | 1,211 | | | | | | |
| | Impact Factor | | 1.50 | | | Calculated | the second secon | 0 | IL |
| | Highway Stiffness Factor for Cyclic | Circumferential | 9.30 | Hoop | | 29,423 29,437 | 32,500 | PASS PASS | -11 |
| | Highway Geometry Factor for Cycli | c Circumferential | 1.10 | | n Welds | 1,412 | 6,000 | PASS | \exists |
| | Cyclic Circumferential Stress [psi] | | 2,157 | Long | g. Welds | 2,157 | 11,500 | PASS | |
| | Highway Stiffness Factor for Cyclic | Longitudinal Stress | 6.20 | | | | | | |
| | Highway Geometry Factor for Cycli | c Longitudinal Stress | 1.08 | | | | | | |
| | Cyclic Longitudinal Stress [psi] | | 1,412 | | | | | | |
| | | | | | | | | | - 1 |

Notes: Open cut construction, calculations run using HS-20 loading + 15%

Reference: API RP 1102 "Steel Pipelines Crossing Railroads and Highways"

Prepared By Kelsey Kibbe Approved By Revision: 13.0.1



366 Pinnacle Ridge Road Rutland, Vermont 05701 802.773.9161 • velco.com

April 25, 2017

John St. Hilaire

Vice President of Operations

Vermont Gas Systems, Inc.

85 Swift Street

South Burlington, VT 05403

Dear John:

The purpose of this letter is to respond to the Addison Natural Gas Pipeline (ANGP) Project information that Vermont Gas Systems (VGS) provided to VELCO regarding the construction issues that were experienced in not obtaining the planned 4' (foot) burial depth to meet the loading of HS20+15% for the natural gas pipeline in the Clay Plains swamp area in the town of New Haven, VT. It is our understanding that the installed gas pipeline varies in burial depth between 3.0' and slightly less than 4.0' in approximately 18 locations in this swamp area along VELCO's K43 transmission line, primarily between structures 261 and 267.

Based upon the detailed field information and engineering analyses that have been provided to VELCO, along with our discussions and correspondence over the past few months; VELCO understands that the loading of HS20+15% can be met at a less-than 4' burial depth with the thicker-walled pipe. Additionally, VELCO agrees with VGS to the installation of the pipe in these limited areas with less than 4' coverage based upon the following:

- VGS confirmed in writing to VELCO, with a May 25, 2016 Mott McDonald (Mott) engineering analysis, that the HS20 +15% loading requirement for the pipe, referenced in the joint VELCO/VGS Operations & Maintenance Agreement dated July 24, 2015, will be obtained and maintained at all locations with the less-than 4' installed burial depth.
 - We also understand that Mott's engineering review will be provided to the Vermont Department of Public Service (DPS) for additional review.
- VGS has identified and documented for their as-built drawings, the limited areas where the
 pipe is not going to be installed at the 4' depth and they have installed additional yellow
 location markers in the VELCO K43 transmission line corridor.

• VGS will inspect these pipeline locations, on an annual basis for two years, to ensure that settling of the backfilled-material has not occurred, which may reduce the buried depth of the pipeline. VELCO understands that the addition of replacement material may be performed as part of VGS' routine maintenance program.

This VELCO letter will serve to memorialize our joint agreement of how the agreed-upon HS rating will be achieved and maintained in these areas for which the anticipated burial depth was not realized.

Sincerely,

Peter W. Lind

Senior Project Manager

PWL/

04/25/2017



ROOT CAUSE ANALYSIS ADDISON NATURAL GAS PIPELINE

HARSH SUNFLOWER
INCIDENT – JULY 18, 2016

VERMONT GAS SYSTEMS, INC. 85 SWIFT STREET SOUTH BURLINGTON, VT 05403

PREPARED BY: JOHN ST. HILAIRE AUGUST 11, 2017

INTRODUCTION

The purpose of this Root Cause Analysis ("RCA") is to determine the causes that contributed to the taking of Harsh Sunflowers in Monkton on LL#155 while constructing the Addison Natural Gas Pipeline ("ANGP"). This RCA will determine what happened during the event, how it happened, and why it happened. This RCA incorporates the RCA performed by Michels with the support of the VGS construction management team immediately following the incident. This RCA will outline the remedial steps taken by Michels and VGS to prevent future occurrences.

PRE-PLANNING

In preparation for work on LL#155, VGS construction personnel consulted with Michels on working around the Harsh Sunflower including at least one field visit to LL#155. After discussing various options, the teams decided the best course of action was to undertake Horizontal Directional Drilling to install the pipeline through the Harsh Sunflower area to avoid surface disturbance and plant takings. HDD work was scheduled to start after the completion of the Town Hill HDD.

ROOT CAUSE ANALYSIS

See Michels Root Cause Analysis attached and incorporated herein. VGS reviewed this RCA and ensured that the remedial action noted was taken. VGS also worked with the State and other stakeholders to implement the remedial action and other required follow up as noted below.

FOLLOW-UP ACTIONS

Prior to resuming work activities on LL#155, VGS agreed to implement or support several added conditions established by the Agency of Natural Resources ("ANR") including:

- 1) Avoidance plan –prepared by VHB and reviewed by ANR
- 2) Additional field protection/barriers for harsh sunflower communities
- 3) ANR site visit
- 4) Compliance monitoring and daily reporting to ANR

On July 29, 2016, ANR granted approval to resume work activities in the area of the Harsh Sunflowers with the added conditions in place. VGS and Michels worked closely with ANR for the duration of the time Michels was on LL#155 and no further takings of the Harsh Sunflower occurred through the end of construction.

On October 26, 2016, Vermont Gas executed an Assurance of Discontinuance with ANR that required, among other things, the payment of a \$22,859.50 penalty and a \$10,828 contribution to a Supplemental Environmental Project ("SEP"). The SEP VGS subsequently contributed to was the New England Wild Flower Society.

On May 25, 2017, the PUC issued a final order resolving this matter in Docket No. 8791. Pursuant to the Order, the Company paid a \$19,000 civil penalty and made an additional \$6000 contribution to the New England Wild Flower Society.



Harsh Sunflower Damage Incident July 19, 2016

Root Cause Analysis (RCA) Incident Investigation

Date: July 19, 2016 **Job #:** 61103

Investigation Team:

Nick Pfundheller – MPL Ted Foltz – MDC

CC:

Carl Bubolz Danny Vincent Matt Westphal Mark Franz Jim Gorski



Root Cause Analysis (RCA) Incident Investigation



Incident Description:

On Monday July 18th, 2016 a Michels Direction Crossings surveyor cleared a path for the wireline tracking system outside of the LOD. While clearing the path, the employee utilized a weed wacker to remove brush in order to provide a clear line of site for the wireline. During the clearing activities, the surveyor unknowingly damaged a threatened resource, the Harsh Sunflower. A VGS Environmental Inspector saw this activity as it was being completed, and immediately notified the VGS Construction Management Team, who in turn notified Michels.

Observations:

Events leading up to day of incident:

- Drilling crew ahead of schedule.
- Scheduled to begin moving to Sunflower HDD Wednesday July 20th, 2016

Sequence of events and observations on day of incident:

- Drilling crew directed onsite Surveyor to begin layout of the Harsh Sunflower HDD.
 - o Monday July 18th, 2016 around 12:00pm.
- Surveyor utilized parallel utility easement (VELCO) to layout the wireline.
- During wireline clearing, the Surveyor damaged Harsh Sunflower. This damage included cutting and trampling of plants.

Post Incident Immediate Actions:

- Michels ceased all work activity at the Peyser location.
- Michels has removed Surveyor from the project.
- Michels has conducted a Root Cause Investigation, and the recommendations

Incident Pictures:









Root Cause Analysis (RCA) Incident Investigation



Contributing Factors/Root Cause(s):

Contributing Factors:

- Environmentally sensitive areas, and applicable rules, requirements and work practices for working in the vicinity of these areas were not communicated to the HDD Crew.
- From an environmental perspective, the HDD Crew did not conduct a high-level planning session to review general requirements and plan the work.
- JSA / Morning Tailgate did not include a review of environmentally sensitive areas and appropriate procedures.

Root Cause:

• Failure to plan the work in consideration of the environmentally sensitive environment and the many restrictions associated with this area, and failure to communicate the Plan with the HDD Crew.

Root Cause Summary:

Michels failure to plan prior to executing work in environmentally sensitive areas decreased the flow
of communication furthering the gap between management and field crews. Future work plans will be
developed prior to mobilization which include identification of LOD and sensitive areas, layout of
project ground rules (no work outside of LOD, no work within cordoned-off areas), and review of
applicable environmental check list and work plan.

0

Michels Corporation Immediate Response(s):

- Immediate response includes identifying key information and the proper channel for communicating
 to the appropriate parties. Michels will identify future HDD work areas, and potential for damages with
 the HDD crew prior to every HDD commencement.
- Stan down
- Investigation
- Root Cause Investigation

Recommendations for Action(s):

In considering all immediate causes, root causes and the activities leading up to and subsequent to the incident, the investigation team recommends the following actions be completed:



Root Cause Analysis (RCA) Incident Investigation



| Action Item: | Responsible Party: | Date Completed: |
|--|--------------------|-----------------|
| HDD Crew Environmental Stand down | Michels | 7-20-16 |
| HSE Memo discussed with all field crews | Michels | 7-20-16 |
| Discuss Environmental awareness in detail at all | | 7-23-16 |
| hands HSE Stand down. More specifically, new project | Michels | |
| expectations. | | |
| Establish project communication protocol between | Michels | 7-20-16 |
| Michels Management and Field Employees. | IVIICTIEIS | |
| Identify future work locations and associated concerns. | Michels | 7-20-16 |
| Establish weekly reminder to reiterate concerns with crew leaders. | Michels | 7-20-16 |



To: Vermont Gas Systems / Addison Natural Gas Project ("ANGP") Phase 1 Project File Date: July 28, 2016

Memorandum

Project #: 57563.00

From: Joshua Sky, Senior Scientist Re: ANGP Phase 1 – Parcel LLN 155 Harsh Sunflower Avoidance

Plan

Introduction

At the request of Vermont Gas Systems, Inc. ("VGS") VHB has prepared the following Harsh Sunflower Avoidance Plan for the Addison Natural Gas Project – Phase 1 ("Project"). This plan provides a detailed process for avoiding further impacts to the Harsh Sunflower (*Helianthus strumosus*, State Rank S2, Threatened) plants located on the Parcel LLN 155, currently owned by VGS. On Monday July 18, 2016 VGS contractor (Michels) cut existing vegetation in an approximately 2- to 3-foot wide path along the eastern edge of the mainline corridor, outside of the Project corridor, during some survey work to support the planned horizontal directional drill ("HDD") to avoid the Harsh Sunflower on LLN 155. Although this action did not cause earth disturbance, it resulted in the inadvertent cutting and trampling of a number of Harsh Sunflower plants.

EPSC inspectors discovered this cutting on the afternoon of July 18 and reported these observations to VGS. Upon learning of the impact to the sunflower, VGS immediately suspended construction on the site, reported the incident to the Vermont Department of Fish & Wildlife ("DFW") on July 19, and implemented a series of measures outlined in Mr. John St. Hilaire's email (See the Attachment) to Jon Kart on the morning of July 21. Mr. Kart responded on the evening July 21 with specific additional measures to be taken by VGS before resuming construction activities as follows:

- 1. Develop and submit a Harsh Sunflower Avoidance Plan to ANR/FWD;
- 2. Coordinate with ANR/FWD on review and approval of the Harsh Sunflower Avoidance Plan;
- 3. ANR/FWD Site Inspection to review Harsh Sunflower plant locations; and
- 4. Ongoing compliance monitoring and daily reporting with a pre-approved qualified environmental compliance monitor for the duration of work on LLN 155.

The natural resource information contained in this plan is based on natural resource inventory data collected on LLN 155 during VHB's initial inspection in 2012 and subsequent inspections by VHB and Gilman and Briggs Environmental during the summer of 2016. Project details and the description of the wireline placement process are based on a HDD concept plan and email communication as provided by Michels.

Wireline Placement

Since the initial intrusion into the harsh sunflower was initiated by the placement of the HDD wireline outside of the LOD, Michels has developed a specific wireline construction sequence that details the installation, operation and removal process for the off corridor wireline:

Wireline route reviewed for harsh sunflower by qualified botanist (completed 7/22/16)

ANGP Phase 1 – Parcel LLN 155 Harsh Sunflower Avoidance Plan

Ref: 57563.00 July 28, 2016 Page 2 of 5

- Wireline route staked and flagged for review by ANR/DFW site visits (completed 7/22/16)
- Wireline route captured by GPS for inclusion on Sunflower Avoidance Plan (completed 7/22/16)
- No clearing / weed whacking will be necessary for layout of wireline
- 2-3 people required for layout of wireline for the drill. Foot traffic only no vehicle traffic necessary
 - A pre-approved qualified environmental compliance monitor will accompany Michels during the wireline installation
 - When line is laid out, another surveyor will walk the line and obtain GPS information of wireline layout
 - o No further traffic or inspection of wireline is necessary during construction unless there is damage to the wireline that need to be repaired.
- 2-3 people will remove line and stakes after HDD Is complete.
 - A pre-approved qualified environmental compliance monitor will accompany Michels during the wireline removal

The wireline that is placed above the pipe within the project corridor will largely be placed on ground outside of the harsh sunflower populations that is cleared and stripped. However, there are two locations of harsh sunflower population (shown as 2016-RTE-HS-01a and 2016-RTE-HS-02 on the attached plan) that the wireline must pass through. Each of these locations is currently fenced off and there will be no foot or vehicular traffic allowed during construction, including pre- and post-construction activities. The wireline will be suspended over these areas from the construction fencing or from adjacent staking outside of the sunflower areas thus preventing any potential impacts.

Harsh Sunflower Avoidance Plan

The purpose of the Harsh Sunflower Avoidance Plan is to prevent impacts to the sunflower while HDD construction work, including pre- and post-construction activities, is occurring on the property. No pedestrian, vehicular or any other access is allowed with the areas of harsh sunflower within or outside of the Project corridor. Through the measures described below, any risk of cutting, trampling, removing or otherwise foreseeable harm to the sunflower will be prevented.

The sunflower avoidance plan contains the following elements:

A. Harsh Sunflower avoidance site plan

This plan (see Attachment) depicts the locations of the Harsh Sunflower populations in relation to Project limits of disturbance ("LOD") in relation to all of the elements of the planned work. This includes the demarcation and protective measures for the Harsh Sunflowers, the location of the HDD components including the drill location,

ANGP Phase 1 – Parcel LLN 155 Harsh Sunflower Avoidance Plan

Ref: 57563.00 July 28, 2016 Page 3 of 5

pullback area and temporary wire line¹ placement required to conduct the drill. It also shows the location of the construction access over the proposed HDD.

B. Demarcation of all Harsh Sunflower populations in the field

A qualified VHB botanist has reviewed the previous Harsh Sunflower delineations conducted during June and early July 2016 and field investigated remaining areas in proximity to planned construction work associated with the planned HDD, including wire line locations. As of July 25, these locations have been field identified within the project corridor with signage and have been protected with a double barrier of orange construction fencing installed in May 2016 and a green barrier fence installed on July 25, 2016. Before construction resumes the green barrier fence will be inspected and where necessary it will be moved to allow for a minimum 5-foot buffer between the sunflower population and LOD within the Project Corridor. Harsh sunflowers located outside of the Project corridor are demarcated with pink flagging strung between wooden stakes to provide a continuous barrier to avoid inadvertent intrusion by foot traffic as shown on the Harsh Sunflower Avoidance Plan. In combination, the pink flagging and construction fencing completely enclose the sunflower populations in order to prevent accidental intrusion. Photographs of the sunflower demarcation are provided in the Attachment.

Protective demarcation measures installed for the harsh sunflower will not be removed until construction in the area is completed and the sunflowers have entered their fall/winter dormant phase and not before October 15. During demarcation removal foot traffic through the sunflower population will still be avoided and vehicle traffic will be prohibited, but any inadvertent intrusion necessary to remove the demarcation would not harm or impact the dormant plants. Removal of the demarcation fencing, staking and ribbon will be conducted by hand under the supervision of a pre-approved qualified environmental compliance monitor. Materials removed will be carried to the nearest project access point and loaded into a vehicle for proper reuse or disposal.

C. Training of all work crews, current and future, on Harsh Sunflower demarcation and avoidance

All contractors that conduct work, including pre-and post-HDD activities, on site will be required to review the Harsh Sunflower Avoidance Plan and will be briefed on the location and description of filed demarcation of the Harsh Sunflower. Beginning on the day of resumption of construction on the subject parcel, construction crews will participate in a daily tailboard meeting that will include a sunflower briefing for the duration of the HDD. All vehicular traffic on the construction access above the HDD in proximity to the Harsh Sunflower will be kept to a minimum by blocking off the access with flagging and fencing and will only be allowed at the direction of the site supervisor and under the direct supervision of a pre-approved qualified Environmental Compliance Monitor (see below). The July 22, 2016 survey of the of the HDD wire line outside the LOD has been conducted with the review

¹ The wire line is used so that the drill operator can steer the drill bit. Two wires (standard 10 gauge electric wire) are placed on the ground surface: one of the wires is placed within the LOD atop the alignment. The second wire is offset from the first wire (potentially outside the LOD), paralleling the drill path. A third wire is installed within the drill itself. This system sends a signal back to the operator, providing the necessary information for proper steering.

ANGP Phase 1 – Parcel LLN 155 Harsh Sunflower Avoidance Plan

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and approval of a qualified botanist capable of identifying the Harsh Sunflower and or other protected plants and reviewed by ANR/DFW staff during on July 25, 2016.

It should be noted that within the past several days, Michels has conducted refresher training in the wake of this event including refresher environmental training for all foreman; and refresher training for the entire Peyser HDD, which touched upon all of the items discussed above, including locations of Harsh Sunflower, requirements to work within the LOD, and general environmental requirements and awareness.

All contractors that conduct construction work on site will receive a copy of the sunflower avoidance plan. This includes current contractors and any additional contractors that may perform other duties such as inspections, site stabilization and removal of the sunflower demarcation (see above) following the completion of work.

D. An approved full time Environmental Compliance Monitor ("ECM") to be present on site at all times that workers are present

A trained VHB staff person will serve as the ECM for this work. This person will have the authority to advise the VGS construction team regarding the need to stop work on site in the event any Harsh Sunflower plants are observed to be at risk of being harmed. The ECM will be present at all times work is being performed in the vicinity of the Harsh Sunflower populations on Parcel LLN 155. This includes all remaining construction activities on the parcel, including pre-HDD work to final site stabilization. The ECM will monitor activity on site for the purpose of avoiding impacts to the Harsh Sunflower and will provide daily reports to ANR/FWD. In addition the ECM will conduct the sunflower avoidance training detailed above and will monitor the condition of and Harsh Sunflower demarcation and make recommendation for immediate repairs if needed. The ECM will be responsible for notifying ANR/DFW if any additional impacts to the sunflower were to occur. Notification, if needed, would occur during the same day that the impact occurred.

The following staff members (Resumes attached) from VHB will conduct the environmental monitoring:

Field Support: One or more pre-approved ECM will be present on site at all times during construction to conduct monitoring and reporting and compliance with the Sunflower Avoidance Plan. Staff have been divided in to two groups based on the type of activity and relative risk to the sunflower. An individual listed in Group 1 will be required to be on site when contractor activity is required outside of the Project corridor (depicted as LOD on Harsh Sunflower Avoidance Site Plan) or within the sunflower populations within the Project corridor. At this time this activity is only anticipated to include the placement and removal of the wireline and the removal of the demarcation following construction. At all other times an individual from Group 2 will be present on site. The ECM will also complete the daily monitoring and reporting. It is anticipated that Michles will infrequently need foot or vehicle access on the portion of the Project corridor over the HDD that is already cleared, and Group 2 ECMs will accompany the contractors during this activity. Group 2 ECMs have been trained in the identification of the harsh sunflower and the Harsh Sunflower Avoidance Plan. Both Group 1 and Group 2 ECMs will immediately advise VGS and its contractors to cease activity and notify DFW if any sunflower plants are at risk of harm. ANR/DFW pre-

ANGP Phase 1 - Parcel LLN 155 Harsh Sunflower Avoidance Plan

Ref: 57563.00 July 28, 2016 Page 5 of 5

approval is required for any additional environmental compliance monitoring staff that VGS desires to add or substitute for the individuals identified below.

Group 1 ECM List:

Joshua Sky, Senior Scientist

Adam Crary, Senior Wetland Scientist

Carla Fenner, Environmental Scientist

Mike Ingram, Environmental Specialist

Group 2 ECM List:

Max Forbes, Environmental Services Intern

Jenna Nash, Environmental Services Intern

Conclusion

VHB has developed this plan at the request of ANR and VGS to prevent further impacts to the Harsh Sunflower on the subject parcel. With the diligent implementation of the protective steps described herein, we are confident that this Harsh Sunflower Avoidance Plan will be successful in achieving this objective.

Attachment

- 1. John St. Hilaire email to Jon Kart dated July 21, 2016
- 2. Sunflower Avoidance Plan Sheet
- 3. Sunflower Demarcation Photographs
- 4. ECM Resumes

ATTACHMENT

Sky, Josh

From: John St.Hilaire <jsthilaire@vermontgas.com>

Sent: Thursday, July 21, 2016 7:46 AM

To: Jon.kart@vermont.gov

Subject: Vermont Gas update on inadvertent taking

Hi Jon

My name is John St. Hilaire and I am the executive sponsor of the Addison Natural Gas Project. I'm writing this email to update you on the status of Vermont Gas activities as they relate to the sunflower.

As you know, late Monday afternoon our contractor (Michels) cut a path along the eastern edge of our mainline corridor during some survey work to support the planned HDD for the Peyser site. This action resulted in the inadvertent taking of a number of Harsh Sunflower plants. [We met with Bob Popp yesterday to review the impacts and determine an accurate count of plant impacts.] Upon learning of this event, we instructed the contractor to immediately stop all work at this location and notified the Agency, as well as the DPS and the PSB.

Over the course of the last two days, we have worked collaboratively with Michels to conduct a root cause analysis of this event to understand what occurred, the root causes that lead to the event, and the necessary actions to be taken to prevent something like this from happening again. While the root cause analysis identified several contributing factors, we have identified the primary cause of this event as a failure in Michels internal procedures regarding HDD work planning and communication of critical environmental risks between management staff and the field crews. To correct this procedural gap, Michels has implemented the following corrective actions:

| Responsible Party: | Status: |
|--------------------|---|
| Michels | Completed |
| Michels | Completed |
| Michels | Ongoing – Will commence 7-23-16 |
| Michels | Completed |
| Michels | Ongoing – Will commence 7-21-16 |
| Michels | 7-20-16 |
| Michels | Ongoing – Will commence 7-20-16 |
| Michels | Ongoing |
| | Michels Michels Michels Michels Michels Michels Michels |

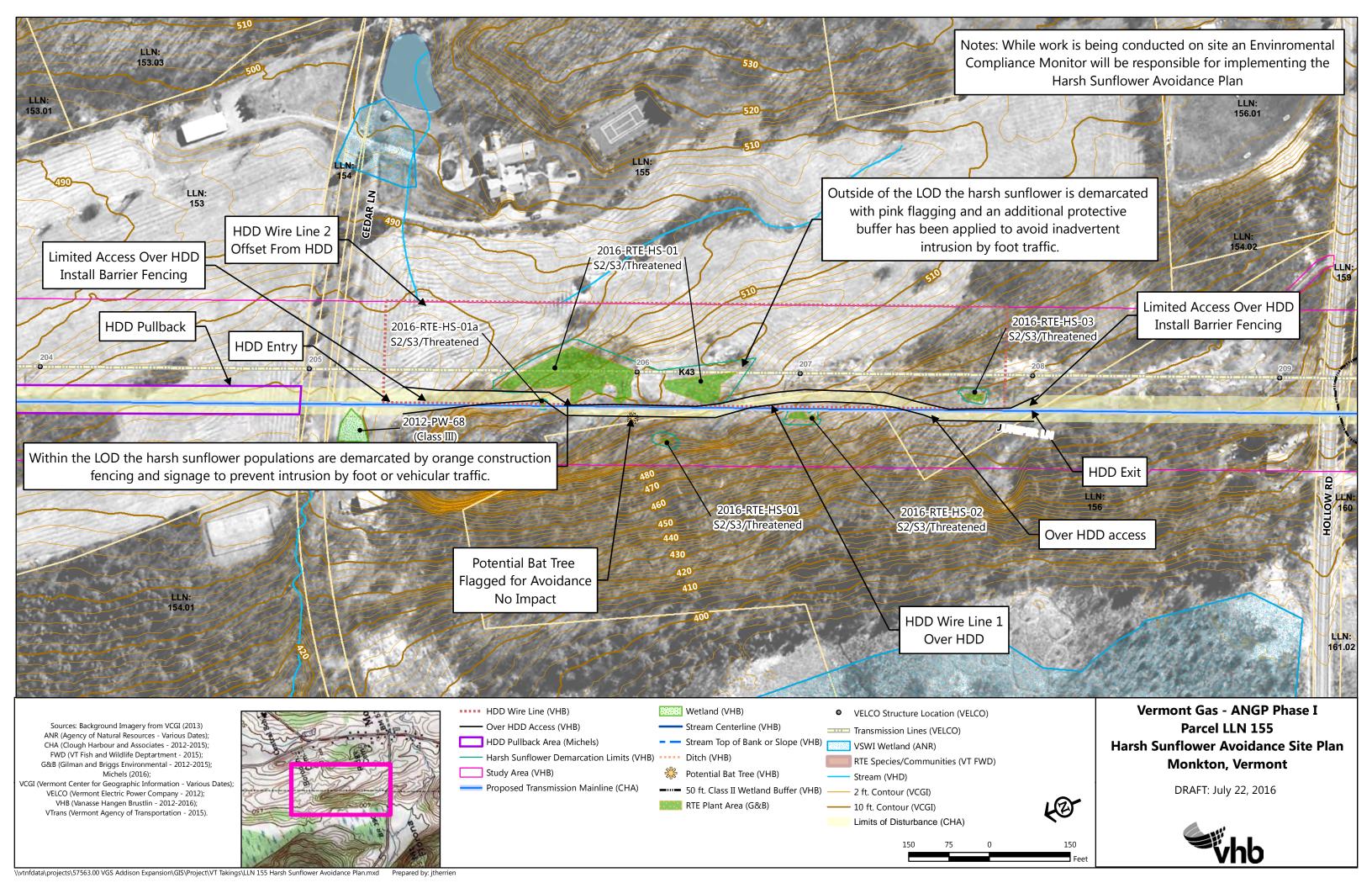
We have spent considerable time and effort to ensure that Michels' leadership and field crews have received refresher training, particularly in regards to protection of critical resources and requirements that all work is to be within the LOD. Moreover, the corrective actions Michels has now implemented, most notably a daily environmental checklist, as well as additional work planning, will help ensure that an incident like this does not occur again.

Given development and implementation of these corrective actions over the course of the two-day stand down, we are allowing the Michels HDD crew to resume work tomorrow at the Peyser location. As Michels returns to work, the following should be noted:

- The HDD crews will set up on both ends of the span to be drilled, well outside the areas where the sunflower has been identified and flagged
- Any travel within the corridor is on a well established path, and the flower areas remain well marked, as well as the LOD along both sides of the corridor
- Activity for tomorrow only includes mobilization. We will evaluate field activities tomorrow, and if
 work proceeds smoothly the corrective actions are successfully implemented, then we intend on
 allowing Michels to proceed with drilling activities on Friday.
- We will have an environmental monitor at Peyser during all mobilization activities and pre-drill work to provide the evaluation discussed in the bullet point above.
- Wire does have to be run along the edge of the corridor to enable the HDD crew to "steer" the drill, but this will be done under the supervision of our VHB Ecologist to ensure that the path remains well outside any of the plant areas

In closing, we understand the serious nature of this inadvertent taking, and we believe we have responded decisively and quickly to investigate the incident and implement comprehensive corrective actions to prevent a reoccurrence of this type of event.

John St.Hilaire VP Operations and Executive Sponsor ANGP Vermont Gas Systems, Inc





Addison Natural Gas Project – Phase 1 Vermont Gas Systems, Inc.

July 26, 2016





Photograph 1: Harsh sunflower area within Project corridor marked by high visibility green fencing with "Protected Area" lettering.



Photograph 2: Harsh sunflower areas outside of Project corridor marked with double row of pink tape.

53 North Willard Street
Burlington VT, 05401
781-640-7630
Maxwell.a.forbes@gmail.com

EDUCATION

Bachelors of Science in Environmental Science: Specialization: Mountain Systems Science

University of Vermont, Burlington, Vermont - Expected Graduation: 2017

WORK EXPERIENCE

Experience

VHB Environmental Services Intern, June 2016-present

- Regularly assists in the field performing wetland and water delineations, wildlife and vegetation surveys, invasive species monitoring, and other environmental assessments
- Performs data entry and analysis to assist in the completion of project deliverables including ArcGIS mapping, United States Army Corps of Engineers wetland determination data forms, floristic inventories, and delineated waters summary tables

Customer Service Specialist - Outdoor Gear Exchange/Gearx.com, Burlington VT, March 2015 - Present

 Responsible for meeting the needs of customers, managing the register station and register staff, opening and closing the store and assisting managers with operations

Marketing Intern - College Outside, May 2015 - Present

- Manage marketing and communications for College Outside including website publications, social media,
 Email marketing, and events
- Coordinate marketing campaigns with vendors
- Manage a team of 8 part-time website content publication contributors

LEADERSHIP & VOLUNTEER POSITIONS

University of Vermont Outing Club

- Rock and ice climbing trip leader, 2013 Present
- Ice Climbing Site Management and Anchor Construction (SMAC) Leadership Development Program Coordinator
- TREK Wilderness Orientation Climbing Leader

Middle School Science Olympiad Program

- Coolidge Middle School Science Olympiad Team, Volunteered over 850 hours as event coach, 2009 2013
- Parker Middle School Science Olympiad Team, Co-Founded and led the team, 2012 2013

Boy Scouts of America, 2006-2013

- Eagle Scout, May 2013
- National Youth Leadership Training Program, July 2011

CERTIFICATIONS

- Certified Single Pitch Instructor, American Mountain Guides Association, May 2015
- Wilderness First Aid Certified, Solo Institute for Wilderness Medicine, April 2014

TECHNICAL SKILLS

- Proficient operation of both Microsoft and Macintosh operating Systems
- Proficient operation of Microsoft Office Suite and Adobe Photoshop Lightroom
- Advanced social media and marketing skills specializing in MailChimp, Blogger, WordPress, Facebook and Instagram
- Working knowledge of Adobe Photoshop, Illustrator, InDesign and Dreamweaver
- Working knowledge of Geographic Information Systems, particularly ArcGIS
- Working knowledge of Computer Aided Design, including SolidWorks, AutoCAD, and ProEngineer
- Working knowledge of programming languages HTML, Java, Python, C# and Matlab

Jenna Nash

31 Hungerford Terrace, Burlington, VT 05401 (814) 602-0297 || jnash1@uvm.edu 4550 Scott Road, East Springfield, PA 16411

Education

University of Vermont, Burlington, VT

Bachelor of Science Degree majoring in Environmental Science, anticipated December 2016 Honors:

Presidential Scholarship, Dean's List 2012-2013

Cumulative GPA: 3.15

Experience

VHB Environmental Services Intern, June 2016-present

- Regularly assists in the field performing wetland and water delineations, wildlife and vegetation surveys, invasive
 species monitoring, and other environmental assessments
- Performs data entry and analysis to assist in the completion of project deliverables including ArcGIS mapping, United States Army Corps of Engineers wetland determination data forms, floristic inventories, and delineated waters summary tables

Gap Inc. Sales associate, hired May 2014

- Excels in having full knowledge of product and brand
- Development of merchandising skills, visual presentation of product, and customer service skills

UVM Dining Services Waterman Manor Server and bartender, hired July 2015

- Excels in maintaining organization and performing all duties in a fast-paced and continually changing environment while providing excellent customer service
- · Works individually and as a part of a team to serve a range of small dinner parties to upscale banquets
- Certified alcohol server

Technical Skills

Proficient using ArcGIS, Microsoft Office, and AutoCAD with a working knowledge of Matlab and Stella Systems Modeling

Leadership Experience

Panhellenic President, UVM Panhellenic Council Executive Board, 2016

- Head of the executive board that governs UVM's largest women's organization
- Development of skills in time management, delegation, collaboration, public speaking, and problem solving

Vice President of Standards, UVM Panhellenic Council Executive Board, 2015

- Developed skills and exceled in problem solving, conflict resolution, mediation, and crisis/risk management
- Head of the Judicial Board, edited UVM's Panhellenic Constitution and Bylaws and wrote a Code of Ethics
- Collaborated in planning and led an orientation for the 200+ new members of the Greek community

Active Member, Kappa Alpha Theta Women's Fraternity – Lambda Chapter, joined November 2012

• Event Director, Fall 2013–Spring 2014

Organized and worked with local businesses in the planning of events for 100+ chapter members, leader of the chapter's risk management team, developed programming to improve the safety of members

• Member Development Committee Class representative, 2013
Served on the five-person committee to ensure the well-being, safety, and morale of the entire chapter as well as every

• 2013 Emerging Leader's Institute, Lambda Chapter delegate

Vice President of Public Relations and Marketing, UVM Jews in Greek Life, 2013

Community Service and Philanthropy

individual member

Philanthropy Committee Member, Kappa Alpha Theta – Lambda Chapter

• Aid in the organization, planning, and execution of annual events including a Thanksgiving dinner and talent show to benefit the Court Appointed Special Advocates (CASA)

$\textbf{Event Aide,} \ UVM \ Rally thon$

- Assist in the running of Rallython and performing any required tasks
- Serve as the liaison between the UVM Panhellenic Council and the Rallython Executive Board

Animal caretaker and socializer, All Breed Animal Rescue

Challah baker, UVM Challah for Hunger

• Baking and selling challah in order to benefit the Chittenden Emergency Food Shelf and the American Jewish World Service in an effort to end world hunger

Michael Ingram

Environmental Scientist



Education
MS, Geology, University of
Vermont, 2015
BS, Geology, University of
Vermont, 2011

Mike is an Environmental Scientist position in VHB's South Burlington, Vermont, office. He works as a Construction Inspector, Environmental Monitor, and Environmental Scientist, employing a diverse set of skills including field observations and reporting, GIS mapping, plan reading, and working on multiple projects simultaneously, as well as trouble shooting and solving time sensitive issues.

5 years of professional experience

Vermont Gas Systems - Addison Natural Gas Project Construction Phase

Mike is the environmental scientist/Erosion Prevention and Sediment Control ("EPSC") Specialist for this natural gas pipeline construction project that includes transmission mainline and access routes, laydown/staging areas, gate stations, mainline valve sites, Vergennes distribution mainline, and Middlebury distribution mainline. He provides Environmental permit compliance monitoring and assistance to the construction team regarding environmental permit compliance, as well as on-going coordination with the project environmental team regarding environmental permit conditions and compliance, environmental training for contractors, and general coordination with Vermont Department of Environmental Conservation ("DEC") and US Army Corps of Engineers ("USACE").

Vermont Gas Systems - Gauthier Wetland Fill Removal

Mike provided EPSC recommendations to stabilize a site of wetland fill during the winter of 2016 and provided oversight of the installation of the EPSC measures. In the spring of 2016 he worked directly with the contractor by providing oversight of the wetland fill removal and restoration to ensure additional impacts to the wetland were minimized and that restoration efforts would result in a revitalized wetland. He also screened the removed soils with a Photo Ionization Detector ("PID") to determine if any contamination was present.

National Grid – Harriman Station 8 Substation

Mike fulfilled the role of Environmental and EPSC Inspector on this substation expansion project located near the Deerfield River in southern Vermont. He conducted weekly site visits and provided recommendations to the client to maintain compliance with DEC and USACE permits.

Vermont Rail Systems – Shelburne Transload Facility

Mike provides on-going support and recommendations with respect to the EPSC Plan and DEC permits. He also developed the Stormwater Pollution Prevention Plan ("SWPPP") for future obtainment of a Multisector General Permit ("MSGP"). Developing the SWPPP involved identifying potential pollutant sources and working closely with the client and stormwater design engineers to ensure the operational facility adheres to local and regional environmental regulations.

VTrans, State Roads and Highways, Vermont

While employed at another firm, Mike performed environmental services for the Vermont Agency of Transportation (VTrans). He performed watershed delineation using ArcGIS for culverts and bridges requiring replacement or repair on VTrans road

Michael Ingram

projects; developed data management protocols for receiving field data and sending watershed basin characteristic data; and reviewed technical reporting for culvert design and AOP recommendations.

Burke Mountain Resort, Permitting & Mapping

While employed at another firm, Mike worked on a mountain development. He carried out Act 250 permitting for trail lighting; Act 250 permitting for 8 miles of mountain bike trails, 9 wooden bridge stream crossings, and 22 wooden/dirt features; and Act 250 permitting for trail re-grading and the construction of a new pump house. He created/compiled maps into Google Earth of the wastewater system; compiled Act 250 permit conditions from 1971 until current and created a compliance checklist for the mountain operations. Mike also mapped the boundaries and centerlines of all ski and mountain bike trails by GPS and GIS to quantify acres and miles of recreation.

Newport State Airport

Prior to joining VHB, Mike worked on a \$7M airport development as Environmental Monitor for 76 acres of logging in forested wetlands to ensure compliance with project plans and USACE, DEC and Act 250 permits. He also performed tracking of logging progress, disturbed areas, locations of primary and secondary haul roads, and EPSC measures with GIS maps.

Waterbury Contaminated Soils

Prior to joining VHB, Mike worked on the repair and upgrade of town storm water system and response to a spill at the Waterbury Fire Department. He delineated the extent of petroleum contaminated soils and performed removal oversight; coordinated with state and local officials on the degree of contamination and removal process; and submitted summary reports and site maps to the DEC.

Milton I-89 and Windsor I-91 Design Build Projects

Prior to joining VHB, Mike was a Construction Inspector on a two interstate bridge replacement projects. He reviewed and performed inspection of erosion prevention and sediment control (EPSC) measures; performed dry swale with permeable soil inspection; and inspected all construction activities for conformance to the plans and project specifications. He performed elevation and location surveys included subgrades, forms, drainage structures, bearing seats, and beam camber profiles. Mike performed material tracking, sample scheduling, and material certifications verification. He also reviewed and inspected access roads, including road grade survey, erosion control procedures and bank stabilization, as well as inspected cofferdam installation, dewatering and water filtration systems.

462 Shelburne Road Construction

Prior to joining VHB, Mike performed construction services for a commercial development that included the demo of a 60 unit motel complex and office buildings, excavation of foundations, and grading of a 100 space parking lot. Mike also installed and maintained site wide EPSC measures.

Joshua L. Sky, GISP

Senior Scientist/GIS Manager



Education

MS, Forestry, University of Vermont, 2005

BS, Environmental Science, Principia College, 1996

Registrations

Geographic Information System Professional (GISP) Josh is a Senior Scientist focusing on energy projects and is also the GIS Manager at VHB Vermont. He specializes in obtaining natural resource based permits for large and small scale energy projects from pipelines to renewables. Permit experience includes Vermont Act 250, Section 248, Vermont DEC program permits, US Army Corps Section 404 and 10 permits, FEMA, and NEPA. In addition to his project work he oversees the use of GIS in the Vermont office including cartography, spatial analytical problem solving, hydrologic model support, database development, and custom model development. Josh supervises a small team of full-time GIS technician/staff scientists and provides support for other GIS users in the office, as well as supervises mobile data collection.

16 years of professional experience

Vermont Gas Systems, Addison Rutland Natural Gas Project – Phase 1, Chittenden and Addison Counties, VT

Josh is the assistant project manager for the proposed Vermont Gas Systems – Addison Natural Gas Project (ANGP Phase 1), which includes 42 miles of 12-inch transmission pipeline, 3 metering and regulation stations, 5 miles of distribution mainline, and local distribution networks in Vergennes and Middlebury, Vermont. Mr. Sky worked closely with VGS to obtain the necessary permits including a Certificate of Public Good from the VT Public Service Board, an individual Vermont Wetland Permit, a construction stormwater permit, stream alteration permit, section 401 water quality certification, and USACE Section 404 and Section 10 permit under an aggressive schedule and the Project is currently under construction.

TDI-NE, New England Clean Power Link (NECPL) Electric Transmission Line, Grand Isle and Rutland Counties, VT

TDI-NE, a privately held company, is developing the New England Clean Power Link (NECPL) project to deliver 1,000 megawatts (MW) of hydro-electric power generated in Canada to the United States. Jesse is serving as the Data Manager for the GIS/CAD data for the project. Josh provides regulatory support an coordination between the GIS team members.

Lamoille Valley Rail Trail, Lamoille Valley, VT

For the Vermont Association of Snow Travelers (VAST), Josh served as the Environmental Task Manager for an ambitious project to convert a 93-mile rail corridor across northern Vermont to a four-season multi-use trail traversing 17 communities, from St. Johnsbury to Swanton. He prepared environmental and cultural documentation along the entire corridor to support the VTrans Local Transportation Facilities process in anticipation of obtaining a Categorical Exclusion approval. Josh was also responsible for the management of field data collection, resource data management and resource mapping for this project that included rehabilitation or replacement of more than 80 bridges and public outreach and close coordination with the permitting agencies.

Stratton Mountain Resort, Water Quality Remediation Plan, Stratton, VT

Josh has been the primary author and guide for the SWQRP since 2007 and has worked closely with Stratton to present base flow and event-based water quality sampling, monitoring, and reporting, and data compilation of streams at Stratton Mountain Resort as part of the resort-wide water quality remediation plan. Stratton is currently entering into the final phase of the SWQRP with all but one stream in compliance with Vermont water quality standards.

Sheffield Wind Project, Sheffield, VT

Josh provided assistance for construction and operational phase stormwater permitting to First Wind (formerly UPC Wind Management, LLC) for a proposed wind farm project in Sheffield, Vermont, consisting of 16 turbines with a project capacity of 40 MW. The applicant modified the project through the course of Section 248 review, and VHB was tasked with evaluating changes in potential project impacts to meet Vermont Department of Environmental Conservation permitting requirements. VHB completed a detailed field reconnaissance and initial watershed resources assessment, utilizing existing information and available GIS mapping to prepare an extensive resource base map. Josh led the resource flagging effort with supervision of field crew and oversight of data collection, as well as oversight of all mapping used for documentation and exhibits in the Vermont 248 process and subsequent appeal. In August 2007, a Certificate of Public Good (CPG) was issued approving the project.

National Grid, GP33 Improvement Project Natural Resources Survey, New Hampshire and Vermont

On behalf of National Grid, VHB conducted a natural resources assessment for the G-33 Line Improvement Project. Within the existing G-33 69 kV transmission line right-of-way (ROW), along proposed off-ROW access routes, construction staging areas, and log drop sites beginning at the hydrostation in Bellows Falls, Vermont and terminating at the Vernon hydrostation in Vernon, Vermont. The entire ROW is approximately 30-miles long, with approximately 10-miles located in New Hampshire and 20-miles in Vermont. The assessment included a wetland and stream survey, wetland functions and values assessment, a Rare, Threatened, and Endangered (RTE) plant species survey, and survey for potential Rare Irreplaceable Natural Areas (RINA). A natural resource report was prepared for permitting effort. For this project, Josh provided data analysis, management, and associated mapping for permitting and reporting.

Deerfield Wind Project, Searsburg and Readsboro, VT

Josh managed the data collection effort and oversaw all mapping required for support of the Deerfield Wind Project, which represented a much-needed long-term source of power for Vermont and the region. VHB conducted an initial assessment of stormwater management approaches as part of the Section 248 Vermont Public Service Board review process for the client, Iberdrola Renewables. Specific activities involved an assessment and design of stormwater management practices for construction and operational phases of the project in order to meet Vermont Department of Environmental Conservation (DEC) permitting, planning, and design requirements.

Burlington Stormwater Utility, Burlington, VT

The City of Burlington established a Stormwater Utility in 2009 through a public ordinance. The utility collects a stormwater fee from property owners based on the

amount of impervious surface present on their property. VHB worked with the Stormwater Utility to establish continuity between the parcel-based impervious cover information and the assessor's database. Josh developed and implemented quality assurance and quality control procedures to ensure data continuity and accuracy. Josh provided the Stormwater Utility the updated information in time for the first billing cycle, as well as provided support for the Utility when individual property owners sought confirmation of the amount of impervious surface within their property

Stratton Mountain Resort, Styles Brook and Middle and East Branch of Tributary 1 to Stratton Lake Stream Geomorphic Assessment, Stratton Mountain, VT

Under the Stratton Water Quality Remediation Plan (SWQRP) Josh directed a Phase 2 SGA for Styles Brook and the Middle and East Branches of Tributary 1 to Stratton Lake. The Phase 2 SGA consisted of identifying bankfull features, conducting a partial pebble count, surveying cross sections, etc. As a result of the SGA and bridge/culvert assessments conducted by VHB, other problem areas contributing to the water quality impacts were identified. The results of the SGA survey were used to craft additional remedial measures designed to bring Styles Brook and Tributary 1 to Stratton Lake into compliance with VWQS including attainment of Class B Aquatic Life use support.

Adam R. Crary, PWS, PWD

Senior Wetland Scientist



Education

BS, Natural Resources and Natural History and Ecology, University of Maine, 2000

Registrations

Professional Wetland Scientist (SWS-PCP)

Professional Wetlands Delineator (VDPOR)

Approved Rare Plant Surveyor (USFWS), VA

OSHA 10 HR Construction Safety, Feb. 2008

Wilderness First Responder (former certification)

Affiliations/Memberships

Society of Wetland Scientists

Southern Appalachian Botanical Society

New England Wildflower Society

NEWFS Plant Conservation Volunteer Adam has worked as a federal park ranger, a research assistant, a stream ecologist, a wetland ecologist, a botanist, and a project manager. He has performed ecological services in 12 states and one U.S. territory on both large-and small-scale public and private projects. Adam has worked on remote as well as urban sites, multi-state linear utility projects, as well as county-wide assessment initiatives. He is responsible for managing or providing oversight on projects focused on ecological resource inventory or involving federal or state environmental permitting, as well as managing wetland and ecological services and technical staff and providing expert natural resources testimony for energy projects primarily in Vermont and the northeast.

18 years of professional experience

Kingdom Community Wind Project, Lowell, Westfield, and Jay, VT

Adam served as the Project Manager for the natural resources assessments conducted by VHB in support of the Section 248 filing for a CPG from the VT PSB as well as collateral environmental permits. Field assessments included wetland/waters delineations and VWR classifications, wetland function and value assessments, rare flora and natural community surveys, vernal pool surveys, and mitigation site assessments. Assisted in the development of project testimony and preparations for PSB hearings. Permitting tasks included close coordination with the Project engineer, developer, VT ANR, USACE, and preparation of Individual Permit applications and mitigation packages. This project involved a 21 turbine wind farm on 4-miles of the Lowell Mountain ridge, with a 16+ mile transmission line upgrade, which was approved and began construction in less than 2 years from substantial resource assessment work.

VELCO, K41 Transmission Line, Irasburg to Highgate, VT

Adam served as overall Project Manager for a comprehensive natural resources survey for the approximately 51-mile Vermont Transco, LLC (VELCO) transmission line, which runs through numerous towns in northern Vermont. In addition to managing field staff, he also led rare, threatened, and endangered (RTE) plant and habitat assessment field surveys. He provided oversight, and prepared and provided QA/QC on technical documents submitted on behalf of VELCO summarizing the results of these surveys, in support of a Section 248 filing.

South Burlington Solar Farm, South Burlington, VT

Adam served as Task Manager and Lead Field Ecologist in conduct of first preliminary, then detailed natural resources assessments for the largest solar generation facility at the time in Vermont. Natural resources assessments included a delineation of wetlands and waters, detailed natural community mapping, vernal pool surveys, and development of a buffer vegetation management plan. Adam provided pre-filed testimony for the successful receipt of a Certificate of Public Good (CPG) from the VT Public Service Board, and oversaw the successful procuring of U.S. Army Corps of Engineers (USACE) Section 404 and VT Department of Environmental Conservation (DEC) Conditional Use Determination (CUD) permits. The project was approved and began construction less than nine months from inception.

AllEarth Renewables, VT B&GS Solar Projects, VT

Adam served as the Project manager and expert natural resources witness providing consulting, design, and permitting support as part of a Vermont Buildings and General Services contract to develop solar energy generation projects primarily on VBGS-owned lands across Vermont. The net-metered projects, with VBGS as the off-taker, range from 150 to 500kw in size. Due to the reduced project scale, Adam guided development of an innovative natural resource assessment method to streamline the site investigations and reporting while meeting VT Section 248 statutory requirements as well as Project schedules.

Green Mountain Power 3307 Line Replacement, Winooski, VT

Adam served as the Project Manager of the natural resources assessments and provided Vermont Agency of Natural Resources (ANR) coordination and expert testimony on the Section 248 Natural Resources criteria for the line segment re-aligned following 2011 Winooski River flood damage. Several natural resources are present in the study area in association with the Winooski River, and Adam worked with the Project Engineer to minimize natural resource impacts and concerns from the VT ANR, which included developing a unique approach to address RTE plants via a post-CPG permit condition.

VELCO Structure Condition Improvement Project, VT (throughout)

Adam served as the Project Manager for this Project which involved detailed natural resources inventory of existing transmission lines to support VELCO's permitting and project planning. The work involved inventory of wetland/water resources and significant natural communities as well as a structure flood risk assessment for approximately 107 miles of transmission line in 2013 and 85 miles in 2014, completed within strict schedule constraints.

Other examples of Vermont Natural Resources and Environmental Permitting Projects

Transportation Infrastructure (VAST Lamoille Valley Rail Trail; VTrans bridge, culvert, and highway projects, Bennington Rail to Trail, Hinesburg Path, Colchester Double-Divergent Interchange)

Utility Infrastructure (VELCO transmission and substation projects, VELCO Statewide Radio, GMP Gorge Generating Station, GMP 3325 Line, CVPS Reconductoring projects, National Grid projects, Waitsfield Waterline, various VEC Substation Projects, VT Gas Addison Expansion project, TDI/NECPL ~150 mile new transmission line, National Grid 3315 Line Replacement Project, GMP White River Junction Substation/Transmission Line project, Canaan Water Line project

Renewable Energy (Beaver Wood Energy Pownal and North Springfield Projects, St. Albans Solar, IBM RTC Solar, EGPNA Sheldon Solar, AER VBGS statewide solar projects, Encore Redevelopment solar projects, VEC solar projects, SunEdison Champlain Valley Solar Farm)

Commercial/Res. Development (Moran Plan, Hannaford Hinesburg, Commonwealth Dairy, Quechee Lakes, South Burlington Market Street, Northfield Savings Bank Berlin, Halifax Quarry, South Burlington Trader Joes)

Adam R. Crary, PWS, PWD

Ski Resort Development (Jay Peak, Killington, Mt. Snow, Killington, Timber Creek at Okemo)

Carla A Fenner

Environmental Scientist



BS, Natural Resource Management, University of Hawaii, 2008

Affiliations/Memberships

New England Wildflower Society, New England Plant Conservation Program, 2013

Society of Wetland Scientists, New England and Mid-Atlantic, 2014

> New England Botanical Club, 2015

Carla is an Environmental Scientist with a focus on wetland delineation, plant ecology, and regulatory compliance. She frequently works on permit preparation, floristic inventories, threatened and endangered species field surveys, mitigation planning, vegetation management planning, and data analysis. Prior to joining VHB, Carla was a Soil Conservationist at the USDA Natural Resources Conservation Service. In this role Carla worked on comprehensive natural resource conservation plans and implementation oversight on projects across southern Vermont, Her responsibilities included delivery of federal conservation programs; a role that included complex technical biological work and contract administration on more than \$1,000,000 of federal contracts. While Carla provides services in a broad range of natural resource management disciplines, the emphasis of her work focuses on wetland and botanical science as well as wildlife habitat management.

9 years of professional experience

Central Hudson Gas and Electric, H&SB Electric Transmission Lines Rebuild Project, Kingston to Greenport, NY

This project focused on obtaining a Certificate of Public Good for this existing overhead transmission line upgrade/maintenance from the North Catskill Substation approximately 23.1 miles south to the Hurley Avenue Substation. The project area included the 150-foot wide Right-of-Way (ROW) with additional adjacent investigation areas outside the 150-foot corridor. Carla facilitated data collection for the duration of the project, and as the wetland and stream delineations task leader, she oversaw the collection of field data and provided regular, detailed progress reports for delivery to the client. Subsequent to field work, Carla provided support to GPS data processing and technical analysis of field data to be developed into a vegetation management plan for the entire project area.

Mount Snow Master Plan - Phase I - Carinthia

In support of Phase I of a Master Plan to redevelop the Carinthia Base Area at Mount Snow Resort, Carla conducted wetland and stream delineations as well as detailed wildlife habitat surveys on tracts of land located at and adjacent to the Carinthia Base Area, associated with the construction of a new snowmaking pond referred to as West Lake, and for a feasibility study on approximately 60 acres in the vicinity of the resort. Carla also played a key role in the Act 250 process and collateral environmental permitting for Carinthia.

Village of Hyde Park Electric Department, Waterhouse Solar Project

Carla conducted wetland and stream delineations, floristic inventory and wildlife habitat assessments in support of the development of a solar project to benefit members of the Hyde Park Electric Department cooperative. In addition to wetland and other natural resources field assessments, Carla's responsibilities included development of a detailed vegetation management plan, agency coordination, natural resources reporting and testimony before the Public Service Board in support of a Certificate of Public Good, and a Vermont Individual Wetland Permit for the project.

Vermont Telecommunications Authority - Vermont Cellular Resiliency Project

The Cellular Resiliency Project was a statewide project implemented to establish disaster resilient, solar powered cellular and Wi-fi telecommunications infrastructure in 10 rural towns and along approximately 133 miles of underserved roadways. Carla completed field surveys for rare, threatened, and endangered species, wetlands, streams and floodplains, and ecologically significant natural communities for 7 of the 10 rural towns in the Project, as well as data collection along approximately 100 miles of the Project's resiliency corridors. Carla also supported this Project through extensive technical reporting, data management, coordination with state regulatory agencies, and the production of NEPA compliance documentation.

Green Mountain Power, Various Substation and Linear Reconductorig Projects

Carla has conducted numerous field studies, wetland delineations, rare flora surveys, natural resource reporting, wetland permitting, and development of resource mitigation and monitoring plans for substation reconstruction, decommissioning, and relocation projects as well as for linear reconductoring and other transmission and distribution line projects. Her work on GMP projects has been spread across many regions in Vermont and exceeding 10 miles of linear project distance.

Vermont Gas Systems, Addison Natural Gas Project Phase 1, Colchester to Middlebury, VT

In support of this 41 mile project, Carla provided wetland delineation, data management, and field survey and mapping of non-native invasive plant populations as well as rare plant surveys, which contributed to a comprehensive vegetation management plan. Carla's work on this project has also included the development of mitigation plans for rare, threatened, and endangered animal and plant species as well as agency coordination and permit development.

NRG Systems, Master Plan, Hinesburg, VT

Carla conducted stream delineations, natural community and upland wildlife habitat inventories, invasive plant surveys, and riparian zone vegetation assessments in support of a Master Plan on a large parcel of undeveloped land in Hinesburg, VT. Carla followed her field efforts with development of multiple technical memoranda that were submitted for review by state regulators, master plan developers, and the town planning board, and that discussed the presence and significance of natural resources as well as the permitting implications, development constraints, and opportunities for mitigation.

USDA Natural Resources Conservation Service, Soil Conservationist, Rutland, VT

Prior to joining VHB, Carla was a Soil Conservationist at the USDA Natural Resources Conservation Service. In this role Carla worked on comprehensive natural resource conservation plans, wetland delineation and functional assessments for regulatory compliance, and was responsible for the delivery of federal conservation programs in three Vermont counties; a role that included technical natural resource management planning and contract administration on more than \$1,000,000 of federal contracts.



ROOT CAUSE ANALYSIS ADDISON NATURAL GAS PIPELINE

INDUCED VOLTAGE –NOPV INCIDENT – JUNE 7 TO JUNE 24, 2016

VERMONT GAS SYSTEMS, INC. 85 SWIFT STREET SOUTH BURLINGTON, VT 05403

PREPARED BY: JOHN ST. HILAIRE AUGUST 11, 2017

INTRODUCTION

The purpose of this Root Cause Analysis ("RCA") is to determine the causes that contributed to the violation of the Addison Natural Gas Pipeline ("ANGP") project Specification 130000 (attached), which was closed out with a memorandum of understanding ("MOU") dated November 9, 2016 between the Vermont Gas systems, Inc. ("VGS") and the Department of Public Service ("DPS") (also attached). The MOU states that VGS acknowledges the violation and promptly engaged in remedial action aimed at achieving compliance with Specification 130000. The MOU also recites that the violation posed no risk to the general public outside of the construction right of way, and did not result in any injuries to employees, contractors or members of the public. This RCA analyze the event; outline the remedial steps reflected in the DPS/VGS November 9, 2016 MOU closing out the violation; and explain why these steps are sufficient to prevent future occurrences.

EVENT DESCRIPTION

Vermont Gas contracted with Michels Corporation ("Michels") to undertake mainline construction in 2015 and 2016 for approximately 36 miles of the ANGP. For the 2016 construction year, Michels began construction work on approximately May 23 and completed construction activities on December 12, 2016. During the period between June 7, 2016 and June 24, 2016 Michels did not fully implement and follow the requirements of ANGP Project Specification 130000 titled "Minimum Requirements for Transmission Pipeline Construction Paralleling Overhead Electric Lines." This was noted by the Department of Public Service ("DPS") inspectors who were onsite during this time period while the ANGP was in progress. The purpose of Specification 130000 is to manage induced voltage generated by electric transmission lines on above ground steel pipe. The DPS asked VGS to address this issue on June 17, 2016. On August 6, 2016, the DPS initiated a notice of probable violation on the matter, noting that once informed, VGS promptly engaged in remedial actions toward achieving compliance. After review and further discussion with DPS, VGS and the DPS entered into an MOU, approved by the Public Utility Commission on December 8, 2016, to close out this event.

TIMELINE AND OBSERVATIONS

Events leading up to period of incident:

- Specification 130000 was made part of the ANGP document package during the RFP process and made available to all bidders.
- Michels was the successful bidder, was awarded the construction contract for 2015 & 2016 ANGP construction, and was aware of all project specifications set forth in the construction contract, including Specification 130000.
- Specification 130000 is intended to reduce the risk of induced voltage while constructing a transmission pipeline where electric safety risk may exist from overhead electric transmission lines.

- In March 2016, in preparation for the upcoming construction season, the VGS project manager sent an e-mail to Michels' General Manager noting Specification 130000 and the need to follow it during the upcoming construction season.
- Despite the contract specifications and follow up notice, Michels did not fully comply with Specification 130000.

Sequence of events and observations on days of incident:

• Between the period of June 7, 2016 and June 24, 2016, DPS inspectors noted during field visits that Michels employees were not fully complying with Specification 130000 and on June 17, 2016 notified the VGS construction management team.

Post Incident Immediate Actions:

- June 17, 2016, VGS immediately met with Michels construction management and electric safety teams to discuss their compliance with Specification 130000.
- June 18, 2016, VGS met with the Michels person in charge of electric safety to discuss compliance with specification 130000.
- Michels brought in additional personnel from their electric construction division and from a third-party contractor to assist the Michels team in meeting the requirements of Specification 130000.
- DPS acknowledged that after it informed VGS of the violations, VGS promptly engaged in remedial action to address the issue including bringing in additional expert resources to monitor throughout construction.
- The DPS also noted that this did not result in any injury to employees, contractors, or members of the public.

FINDINGS AND ROOT CAUSE

Contributing Factors:

- Specification 130000 is an important requirement to ensure safety within an
 electric transmission corridor. While it was properly included in the contract
 documents and pre-construction season communication from VGS to Michels, the
 specification itself was subject to more than one interpretation as written. The
 procedure called for "paralleling" overhead electric transmission lines, however
 the specification did not further define "paralleling," and different parties
 interpreted it in different ways, including:
 - 1) Paralleling anywhere within Velco ROW
 - 2) Paralleling anywhere within or abutting Velco ROW
 - 3) Paralleling no matter the distance to an electric transmission corridor The ambiguity of the terminology resulted in differences in opinion on where the procedure should be followed along the ANGP route.
- Until notified by the DPS, neither VGS nor Michels recognized the different interpretations for Specification 130000 that had been employed.
- Michels indicated that it had utilized its expertise gained with equipment and processes used on other projects elsewhere in the country to address induced

voltage safety, even though those were not found to be in compliance with Specification 130000.

Root Cause:

- Michels was not clear on terminology for Specification 130000 as set forth in this contract, and was not fully prepared to implement and follow Specification 130000 as written.
- VGS was not aware of this until notified by DPS and did not have a substantive walk through of the Specification 130000 compliance plan prior to that notification.

Root Cause Summary:

• While VGS notified its Contractor at the start of the applicable construction season of the Specification 130000 requirement, VGS and Michels did not come to a mutual understanding of how it would be implemented until after this event. Contractors should be prepared with knowledge of the required specifications, and applicable material, tools, and trained personnel to perform the work outlined for a given project. While Michels was fully aware of the existence of Specification 130000 and the need to follow it during construction, Michels did not do so during the time in question because VGS and Michels did not walk through what Specification 130000 in the ANGP contract required to identify any differing interpretations or lack of understanding.

CORRECTIVE ACTION

VGS worked with the DPS and Michels to determine a unified interpretation of Specification 130000. VGS requested Michels hire an additional resource to oversee the implementation of Specification 130000, and asked that it be vetted by ARK Engineering, the engineering firm that designed the cathotic protection and A/C mitigation systems on ANGP. The credentials of the person were shared with the DPS, which acknowledged that the individual was qualified to fulfill the duties under Specification 130000.

VGS and the DPS met weekly throughout the remainder of ANGP to discuss progress and continued compliance with Specification 130000.

On November 9, 2016, the DPS and VGS entered into a memorandum of understanding regarding the violation of Specification 130000 which outlining the following facts:

- The violation period was from June 7, 2016 to June 24, 2016.
- VGS acknowledged the violation and paid a fine.
- DPS acknowledged that after it informed VGS of the violations, VGS promptly engaged in remedial action aimed at achieving compliance with Specification 130000.
- VGS and DPS acknowledged that the violation did not result in any injuries to any employee, contractor or member to the public, and there was no risk to the general public outside of the construction right of way.

As part of the Memorandum of Understanding, VGS agreed to undertake several items. The items and their current status are shown below.

| Incorporating VELCO's electrical safety onboarding training in VGS' | Completed | | | | |
|--|-----------|--|--|--|--|
| onboarding process | | | | | |
| VGS to hold annual induced voltage training for both new employees working | Completed | | | | |
| on ANGP and returning contractors working on ANGP | | | | | |
| VGS to develop an induced voltage procedure for the companies O&M manual | Completed | | | | |
| VGS to revise Specification 130000 to clarify its requirements | Completed | | | | |
| VGS to designate a point person for DPS and VGS correspondence | Completed | | | | |
| VGS to review its existing and future specifications for clarity, | Completed | | | | |

CONCLUSION

Michels did not adequately follow VGS' procedure 130000 for the reasons stated above. No injuries or threat to the public occurred. This failure was identified early and remedied promptly. VGS acknowledged the violation and implemented corrective actions. The corrective actions were effective, as no other violations were noted during the remainder of the 2016 construction season.

SECTION 130000 - MINIMUM REQUIREMENTS FOR PIPELINE CONSTRUCTION PARALLELING OVERHEAD ELECTRIC LINES

PART 1 – GENERAL

1.1 MINIMUM REQUIREMENTS FOR PIPELINE CONSTRUCTION PARALLELING OVERHEAD ELECTRIC LINES

- A. VELCO requirements shall be maintained at all times. In the event of a conflict between this specification and VELCO requirements, VELCO shall govern.
- B. This construction specification applies to pipeline construction that parallels overhead high voltage electric transmission lines and represents minimum requirements only.
- C. The purpose of this specification is to cover the procedures and construction techniques which must be used during the construction period to reduce potentials on the pipe and construction equipment to a level less than 15 volts Root Mean Square (RMS) measured between the structure and ground with approved equipment. This is measured using a digital voltmeter.
- D. This specification is not all inclusive and is intended to inform the installer of the potential hazards which may be associated with pipeline construction in the vicinity of induced voltage, fault current, and contact to high voltage electric transmission lines and structures.
- E. The Contractor should review the project and initiate additional requirements deemed necessary to ensure the safety of persons and property affected thereby. The Contractor shall furnish any special materials required to comply with this section. Consult with the Electrical Transmission & Distribution Utility for specific applications and requirements.

1.2 REFERENCES

- A. National Electric Code (NEC)
- B. Occupational Safety and Health Administration (OSHA)

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 STEEL PIPE INSTALLATIONS PARALLELING HIGH VOLTAGE ELECTRIC LINES

- A. When exposed metallic piping is installed parallel to overhead A.C. electric lines, the pipe is subject to induced voltages and currents that are the result of electromagnetic, electrostatic and resistive coupling.
- B. Without proper grounding or AC mitigation, induced voltages and currents may cause pipe coating damage as well as damage to cathodic protection and electronic monitoring equipment.

MINIMUM REQUIREMENTS FOR PIPELINE CONSTRUCTION PARALLELING OVERHEAD ELECTRIC LINES

C. Induced voltages and current can be hazardous to personnel working on the pipeline during the construction period when long sections of pipe are exposed above ground and insulated from ground on non-metallic skids. Lightning and faults on the transmission line can be especially dangerous.

3.2 ELECTRICAL SAFETY

- A. The contractor will furnish a responsible person that can understand and follow the Technical Specifications and Electrical Safety required for the specific project. The responsible person for electrical safety must be approved by the Owner. This person is responsible for overseeing and delegating the tasks required by this specification.
 - 1. The person in charge of electrical safety shall:
 - a. Assure that all electrical safety requirements and devices are fully understood by all members of the construction forces.
 - b. Be fully aware of proper grounding procedures and with the dangers associated with electromagnetic and electrostatic couplings, resistive coupling, ground fault current discharge, lightning, etc.
 - c. Know the proper OSHA and NEC safeguards for the construction equipment being used related to the Owner's "limit of approach" regulations to the specific overhead transmission circuits that will be paralleled.
 - d. Have the necessary instrumentation, equipment and authority to implement and maintain safe working conditions.
 - e. Assure all safety devices and practices are properly employed during all periods of construction activity in the proximity of electric overhead transmission systems. This includes the choice of the appropriate rubber gloves for the situation.
 - f. Communicate at least daily with the dispatcher controlling the involved electric lines to ascertain any scheduled changes in loading, outages and switching operations and to notify of work on their Right-of-Way.
 - g. Have stop work authority if conditions warrant the work as unsafe.
- B. The Contractor shall adhere to all safety requirements of the electric utilities. This includes, but is not limited to, the following: training, safety certifications, daily reporting, and other applicable documentation as determined necessary by the electric utility.

3.3 EQUIPMENT SAFETY

A. Each piece of equipment utilized to handle pipe in any way such as unloading, picking up, transporting, bending or setting-in shall be grounded and shall be equipped with a cable assembly capable of grounding the sections of pipe to the piece of equipment handling that pipe.

- B. Before any section of pipe is picked up or moved in any way, the ground shall be completed between the section of pipe and the equipment moving that pipe. "Setting-In" booms shall be equipped with ground cable and the ground must be maintained at least until the stringer bead is completed. The ground connection on cranes shall be also made to the upper rotating structure supporting the boom.
- C. Pipe shall be unloaded from stringing trucks by a side boom/excavator equipped with grounding cable as described above. A ground shall be completed between all sections of pipe to be unloaded and the side boom/excavator before the unloading cables, slings, or vacuum lift are attached to the pipe.

3.4 GROUNDING

- A. Each continuous segment of pipeline being worked on should be grounded to at least two separate points. This grounding should consist of one of the following alternatives:
- B. Grounding should be established by driving one or more 1/2" minimum diameter ground rods placed in proximity to the pipe to at least a four-foot depth and connecting these ground rods to each other and the pipeline with a #2 A.W.G. coated stranded copper cable. Suitable connectors should be utilized to connect the #2 A.W.G. cable to the individual ground rods and to the pipeline. No ground connections should be removed without the knowledge and concurrence of the person responsible for electric safety.
- C. Should sub-surface conditions prohibit the driving of ground rods, temporary grounding can be established with one or more ground rods, conduits of aluminum foil installed horizontally and covered with a minimum 4 inches of dirt. The segment of the pipeline being worked on should be bonded to the temporary grounding. This bond should consist of an insulated #2 A.W.G. jumper cable. The grounding cable should first be securely attached to the pipeline and then attached to the temporary ground. Removal should be in reverse order.
- D. It is of the utmost importance that the person making or breaking the connection at the ground rod connection not "bridge the gap" between the ground rod and bond clamp.
- E. When installing or removing a grounding or bonding facility, personnel shall wear the class of rubber insulating gloves selected by the person responsible for electrical safety. The following procedures for making and breaking grounding connections shall be strictly adhered to:
 - 1. Using Jumper Cable with End Clamps
 - a. Making grounding connections
 - 1) Establish temporary grounds (ground rods, bare casings, other appropriate ground).
 - 2) Using jumper cable with end clamps, connect one end clamp to the pipeline while using rubber gloves.
 - 3) Using rubber gloves, connect the other end clamp to the temporary ground.
 - b. Disconnecting grounding connections

- 1) Using rubber gloves, disconnect the clamp attached to the temporary ground.
- 2) While using rubber gloves, disconnect the clamp connected to the pipeline.
- 2. Using Clamp Around the Pipe and Jumper Cable with End Clamps
 - a. Making ground connections
 - 1) Establish temporary ground (ground rods, bare casing, other appropriate ground).
 - 2) Using rubber gloves, connect grounding clamp around the pipe.
 - 3) While using rubber gloves, connect one end of the grounding cable to the grounding clamp around pipe.
 - 4) Using rubber gloves, connect the other end of the grounding cable to the temporary ground.
 - b. Disconnecting grounding connections
 - 1) Using rubber gloves, disconnect the grounding cable from the temporary ground.
 - 2) Using rubber gloves, disconnect the grounding clamp around the pipe.
 - 3) While using rubber gloves, disconnect the grounding cable from the grounding clamp around the pipe.
 - 4) Proper work procedures related to electrical safety shall be established for all construction activities associated with this project.
- F. The person in charge of electrical safety or a person delegated by this person shall check the integrity of each connection by measuring the resistance from a near point on the copper cable to the ground rod or pipeline steel using a suitable Ohm Meter. A good electrical connection will have a resistance of 0.1 Ohm or less.
- G. Pipe shall be hauled to the right-of-way and stored in stacks of ten sections or less. Stacks must maintain minimum separation of 10 feet from one another. Each section of pipe in the stack shall be grounded with a 1/2" min. diameter ground rod driven into the ground at least four (4) feet. All sections in one stack shall be grounded together. This ground shall be maintained until each individual section of pipe has been removed from the stack.
- H. When grounding sections of pipe, the ground rod shall be driven and the grounding cable connected to the pipeline first. The grounding cable shall then be connected to the pipe ground rod. Cables used for temporary grounding attachments shall have good mechanical strength as well as high conductivity. The cable shall be single conductor #2 A.W.G. stranded copper, cable or equivalent. Cable attachments to temporary grounding systems shall be made by a method that assures good electrical contact while applying firm pressure to the pipe metal. If magnets are used as an attachment method, they must be attached to a flat, bare steel surface.

This method of attachment should have a current carrying capacity of at least 200 amperes. When removing grounding cable, the cable shall be removed from the pipe or equipment first and then from the ground rod.

- I. All grounding attachments and removals shall be made by or under the direct supervision of the person responsible for electrical safety.
- J. Temporary ground connections should be made by electrically connecting the pipeline to each casing. Prior to the installation of the cathodic protection test leads, a bond should be installed using an insulated #2 A.W.G. jumper cable with suitable clamps. Connection shall be made first to the pipeline and then to the casing. Removal of bond shall be made on reverse order.
- K. If electrolytic grounding cells are to be installed between the pipe and casing as part of the final installation, the bonds shall not be removed until the grounding cells are installed.
- L. Before any casing-pipeline temporary bond is removed, the person in charge of electrical safety shall determine that all permanent test wire connections to the pipeline and casing are intact. This shall be done by measuring the potential of the wire to a close copper-sulfate reference electrode using a suitable high resistance volt-meter. A wire connection with good metallic contact will show a potential of from 0.3 to 0.7 volt. A broken or disconnected wire connection will show a potential of 0.2 volt or less.
- M. Insulating joints shall be installed with a bond cable shorting out the insulating material. This bond cable shall remain in place until the insulating joint has been welded into the pipeline and a grounding cell has been connected across the insulating flange. The grounding cell with test station must be in service and the bond cable removed before the insulating joint is buried.
 - 1. Each person coming in contact with the pipeline during construction should do so only when:
 - a. Using rubber-insulating gloves. The person in charge of electrical safety should be in charge of insuring that all rubber-insulating gloves are kept in good insulating condition by following accepted test procedures. All gloves that are damaged (punctured, ripped, torn, etc.) shall be immediately replaced.
 - b. Standing on a grounding mat that is electrically connected to the pipeline at two separate locations. The grounding mat could consist of a copper weld wire mesh of #8 A.W.G. wire with a 4" x 4" mesh spacing. The mat should be electrically connected to the pipeline through a minimum #2 A.W.G. insulated jumper cables thermo welded to the mat and connected to the pipe using suitable clamps.
- N. Temporary gradient control mats shall extend a minimum of 1 meter in all directions outside the work area. There shall be no contact between persons over the gradient mat and those not over the mat, including the handing over of tools, instruments or other materials.
 - 1. Regardless of the approach selected, it is always advisable to handle the pipe (whenever possible) by the coated area of the pipe.
- O. All piping at tie-ins shall be bonded across the gap. All piping at cut-outs shall be bonded across before the cut-out is started. Prior to installing the cable bond at tie-ins and prior to removing the cable bond across cut-outs, each side shall be properly grounded.

- P. Whenever a section of pipe must be lifted free of the earth on a web sling or equivalent for transport, the pipe steel so lifted should be electrically connected to a metallic portion of the side boom/excavator doing the lifting and transporting.
- Q. A grounding strap or chain shall be attached to each rubber tired vehicle with a secure electrical connection to provide a ground contact for the vehicle during both mobile and stationary operations. The vehicle strap/chain should have constant unobstructed contact with the ground when the vehicle comes to a stop within 200 feet from the centerline of high voltage electrical conductors. If terrain prevents this, an additional strap is recommended to be mounted to the vehicle at a different location.
- **R.** If steel chain is used for the grounding connection, it shall be of a minimum 1/4" size. If a strap is used for the grounding connection, it must be approved by the Owner before utilization.
- S. All bonding connections shall be made to driven ground rods as described above. Bonding connections shall not be made between the pipeline and the electric transmission line ground. Such a connection can result in high pipeline potentials during power line faults with current flow through the pipeline that could damage the steel as well as the coating.
- The pipeline shall not be bonded or grounded to foreign structures without permission of the Owner of the foreign structure. If permission is not granted, the foreign structure shall be electrically isolated from the pipeline under construction.
- **U.** Workers shall avoid at all times making simultaneous contact to a grounded and ungrounded structure.
- **V.** Other grounding materials and suppliers can be used subject to approval by Owner. Examples of other cable jumpers that could be used are:
 - 1. Cable jumpers using 50 lb. minimum pull magnet for connection to pipe, heavy equipment, fuel trucks and general use.
 - 2. Standard welding or battery jumper clamps with well-insulated handles, and teeth to bite into the metal.
- **W.** All grounding attachments and removals should be made by or under the direct supervision of the person in charge of electrical safety.

3.5 VOLTAGE MEASUREMENT

A. The voltage to ground measurement on exposed pipe that has been strung on the pipeline right of way on, under or adjacent to overhead high-voltage electric transmission lines should be measured for voltage before any handling of the exposed pipe. Voltage readings should be taken and recorded periodically (minimum twice a day) in active work areas between the pipe and a clean steel pin drivin into the ground surface.

- B. If the A-C voltage exceeds 15 volts above ground, supplementary grounds must be used to reduce this voltage to less than 15 volts. In the event that measured A-C voltage above ground exceeds 15 volts, the person in charge of electrical safety shall issue appropriate warnings and all work on the pipe string shall be suspended until potential is reduced to less than 15 volts.
- C. These grounds shall be maintained at all times. A record of a periodic measurement of induced voltage shall be obtained and the record of these readings maintained. The bonding entities shall be as widely separated as is possible. As the "still-above ground" portion of the construction advances, bonds should be kept close to the construction end. This may only be done by installation of a third or higher number bond near the "construction end" before removing a bond near the completed end.

3.6 VEHICLES

- A. Rubber tired equipment parked for any appreciable time on a power line right-of-way can obtain a significant static charge. Vehicles should be parked no closer than 200 feet from the centerline of high voltage overhead conductors.
- B. Refueling of any motor vehicles or construction equipment shall not be permitted within 300 feet of any electric overhead transmission facility unless right-of-way conditions are such that this distance is unobtainable, and the electric utility approves. If the 100 yards 300 feet minimum cannot be complied with, the maximum distance possible shall be obtained, then each fuel truck shall be grounded and shall be equipped with a cable assembly capable of completing an electrical bond between the truck and any piece of equipment to be fueled. This bond must be made each and every time the refueling takes place within 300 feet of any electric overhead transmission facility prior to any part of refueling operation. This bond shall not be removed until all refueling operations are completed. Care should be taken where the cable attachments are made so that good electrical continuity is established. No fueling operations shall be carried out within 50 feet of the power transmission line.
- C. At all times during construction, care must be exercised to assure that booms, cables and other equipment are no closer than 25 feet (or greater if stated in OSHA requirements or by the electrical utility) from overhead power lines. Height of conductors above ground shall never be taken for granted but should be investigated in each case. Where operator of equipment is unable to personally assess that minimum distance is maintained, a second person shall be designated to guide the operator. Consideration must also be given to the possibilities of broken cables whip lashing close to power lines. It is recommended that each piece of equipment be positioned so that, should this occur, the cable would not come closer than 25 feet to a power line.

3.7 WEATHER LIMITATIONS

A. All construction work shall be suspended in the area of overhead high voltage power lines during any potential lightning activity.

3.8 WARNING SIGNS

A. The Contractor should post adequate signs warning of possible electrical hazards at each access to the right-of-way and any other measures required to prevent public access to temporary grounding installations.

MINIMUM REQUIREMENTS FOR PIPELINE CONSTRUCTION PARALLELING OVERHEAD ELECTRIC LINES

| В. | Warning signs shall be posted on all cranes and other hoisting eq always be in plain view of the operator. Said signs shall state: "Dan this equipment within 25 feet of the High-Voltage Lines." Similar wavarious parts of the equipment. | ger, do not operate any part of |
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| MINIMUM REQ OVERHEAD EL | UIREMENTS FOR PIPELINE CONSTRUCTION PARALLELING ECTRIC LINES | PAGE 8 OF 8 |

STATE OF VERMONT PUBLIC SERVICE BOARD

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| Notice of Probable Violations re Construction of the | • |
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| Addison Natural Gas Project | |

MEMORANDUM OF UNDERSTANDING BETWEEN THE VERMONT DEPARTMENT OF PUBLIC SERVICE AND VERMONT GAS SYSTEMS, INC.

This Memorandum of Understanding (this "MOU") dated as of November 9, 2016 sets forth the agreement of the Vermont Department of Public Service (the "Department") and Vermont Gas Systems, Inc. ("Vermont Gas") (collectively, the "Parties") regarding the above-captioned proceeding.

Introduction

- Whereas the purpose of this MOU is to resolve the Notice of Probable Violations
 ("NOPV") relating to the Addison Natural Gas Project ("ANGP") issued by the
 Department on August 8, 2016.
- Whereas Vermont Gas and the Department have engaged in extensive communications about the issues raised in the NOPV.
- Whereas Vermont Gas and the Department desire that the ANGP be constructed and brought into service consistent with the plans approved by the Board.
- 4. Whereas Vermont Gas and the Department are committed to construction of the ANGP in a manner that provides a safe environment for employees, contractors and members of the public.

Agreement

- With regard to alleged violation no. 1, Vermont Gas agrees that its mainline contractor, Michels, failed to fully comply with Section 130000 during June 7 through June 24, 2016.
- The Department acknowledges that after it informed Vermont Gas of the violations,
 Vermont Gas promptly engaged in remedial action towards achieving compliance with
 Section 130000.
- The Department acknowledges that the violation did not result in any injuries to any
 employee, contractor or member of the public, and there was no risk to the general public
 outside of the construction right of way.
- With regard to alleged violation no. 2, the Department acknowledges that Vermont Gas
 responded within one business day to the Department's June 24, 2016 request for
 information.
- Although the Department desired more information than provided by Vermont Gas, the
 Department agrees that Vermont Gas's response complied with the minimum
 requirements of Board Rule 6.102(B).
- 6. Vermont Gas agrees to pay a civil penalty of \$95,000.
- 7. In addition to the remedial measures Vermont Gas has already implemented, including revisions to Section 130000 and Vermont Gas's use of VELCO's electrical safety onboarding for its employees and contractors working on the Project, Vermont Gas agrees to the following:
 - a. Vermont Gas will adopt VELCO's electrical safety onboarding training and incorporate it into Vermont Gas's existing onboarding for new employees and all

- new and returning contractors who will perform Operator Qualification tasks within Vermont Gas's transmission right of way or work within VGS's Operations department.
- b. Vermont Gas will hold annual induced voltage training for its employees who perform Operator Qualification tasks within Vermont Gas's transmission right of way or work within VGS's Operations Department.
- c. Vermont Gas will develop an induced voltage procedure for its O&M manual within 30 days of the entry of a Board Order approving this MOU.
- d. Vermont Gas will revise Section 130000 and include in the induced voltage procedure of its O&M manual, a process for identifying sections of Vermont Gas's transmission right of way subject to the induced voltage procedure based on where electrical safety risks may exist while working in close proximity to electric transmission lines, within 30 days of the entry of a Board Order approving this MOU.
- e. Vermont Gas will designate a point-of-contact for requests by the Department for information pursuant to Board Rule 6.102(B). Vermont Gas will make a good faith effort to respond to the Department's information requests in a manner that is responsive and complete.
- f. Vermont Gas will ensure all of its existing and future written procedures and specifications are:
 - feasible, effective for the task to be performed, and are able to be logically followed, prior to performing any future tasks under the respective procedures and specifications; and

- followed when performing tasks under the respective procedures and specifications.
- 8. Subject to approval by the Board, the Department and Vermont Gas agree that this MOU fully resolves the NOPV received by Vermont Gas on August 8, 2016 and any related potential violations that may have continued up to and including the date of this MOU.

Final Terms and Conditions

- This MOU shall become effective upon the issuance of approval by the Board in the manner contemplated herein.
- 2. The Parties agree that this MOU relates only to these Parties and should not be construed by any party or tribunal as having precedential or any other impact on future proceedings involving the Parties, except as necessary to implement this MOU. The Parties reserve the right in future proceedings not referenced herein to advocate positions that differ from those set forth in this MOU, except as necessary to implement the Parties' rights and obligations under this MOU.
- The Parties have made specific compromises to reach the agreements reflected in this MOU.
- 4. Except as otherwise provided for herein, the Parties agree that this MOU shall be effective, and shall bind the Parties hereto, only if the Board issues an order in this docket containing terms consistent with this MOU in all respects.
- 5. The Parties agree that should the Board reject or fail to approve the MOU in its entirety, the Parties' agreements set forth herein shall terminate if so requested by either Party, in which case Vermont Gas shall have the right to file a response to the NOPV. The

- deadline for such response shall be 30 days after the Board's issuance of an order relating to adoption or rejection of the MOU.
- 6. The Department will support issuance of the orders and findings of the Board subject to the Department's obligations under Title 30 of the Vermont Statutes Annotated.
- 7. This MOU is governed by Vermont law and any disputes under this MOU shall be decided by the Board.

STATE OF VERMONT
DEPARTMENT OF PUBLIC SERVICE

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Dated: November 9, 2016 at Montpelier, Vermont

VERMONT GAS SYSTEMS, INC.

sy. <u>477-27</u>

Wice President of Operations

Dated: November 9, 2016 at South Burlington, Vermont