

Northern Utilities, Inc.
Docket No. DG 18-094
Petition for Authority to Operate as a Public Utility
in the Town of Epping
Technical Session Data Request

Received: November 1, 2018

Date of Response: November 6, 2018

Request No. Staff Tech 1-3

Witness: Christopher Kahl

Request:

Ref. Exhibit 3 in DG 18-143 (Northern COG filing), Revised Schedule 8, page 3 of 10, lines 1-24. Please compare the cost for a typical Northern G-41 C&I customer with what the cost would be if that same customer were using propane at the current hearing fuel value as reported by the New Hampshire Office of Strategic Initiatives (<https://www.nh.gov/osi/energy/energy-nh/fuel-prices/index.htm>).

Response:

Staff Tech 1-3 Attachment provides a cost comparison between propane and natural gas for a typical G-41 C&I customer during both the winter and summer seasons. The BTU content and price per gallon of propane were taken from the New Hampshire Office of Strategic Initiatives website. Costs for natural gas were taken from Revised Schedule 8 as submitted in Exhibit 3 in DG 18-143.

Comparison of Winter & Summer Season Energy Cost for G-41 C&I Customer - Natural Gas vs. Propane

	Price Per Gallon ⁽¹⁾	Heat Content Per Unit (BTU) ⁽¹⁾	Price Per MMBTU	Winter Price Per Therm ⁽²⁾	Typical Winter Usage (therms) ⁽³⁾	Summer Price Per Therm ⁽²⁾	Typical Summer Usage (therms) ⁽³⁾	Six month Customer Charge	Estimated Winter Cost	Estimated Summer Cost
	A	B	C = (A * 1,000,000) / B	D	E	F	G	H	I = (D * E) + H	J = (F * G) + H
Propane	\$3.18	91,333	\$34.82	\$3.48	16,798	\$3.48	3,869	\$0.00	\$58,486.68	\$13,470.95
Natural Gas ⁽⁴⁾				\$1.12	16,798	\$0.62	3,869	\$1,285.56	\$20,022.05	\$3,669.64

(1): Provided by New Hampshire Office of Strategic Initiatives website on November 2, 2018.

(2): 1 therm = 1,000,000 BTUs / 10

(3): Provided in Revised Schedule 8 (Line 2) as submitted in Exhibit 3 in Northern's 2018 - 2019 Annual Cost of Gas filing, Docket No. DG 18-143.

(4): Calculations provided in Revised Schedule 8 (Line 24) as submitted in Exhibit 3 in Northern's 2018 - 2019 Annual Cost of Gas filing, Docket No. DG 18-14. Price per therm equals sum of all commodity components.

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Request No. Staff Tech 1-4

Witness: Christopher LeBlanc

Request:

Please describe the work required for a typical G-41 customer to convert from propane to natural gas, the estimated cost and time required.

Response:

A typical G-41 customer with propane for heating load would be required to make changes to their existing heating equipment for conversion to natural gas. A typical 200,000 BTU rooftop heater would require a conversion kit, which would change out the orifices and a Maxitrol p.s.i. to inches water column regulator. The conversion kit is approximately \$300, and the regulator is approximately \$100. The labor to convert a single unit is approximately \$350, for a total estimated cost per unit of approximately \$750.

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Staff Data Requests – Set 1

Received: July 31, 2018

Date of Response: August 13, 2018

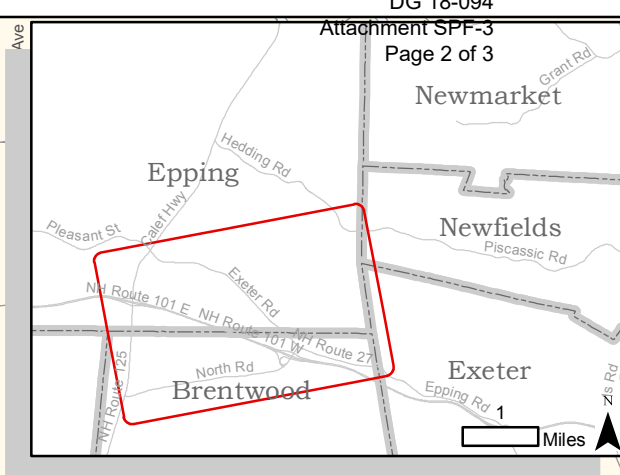
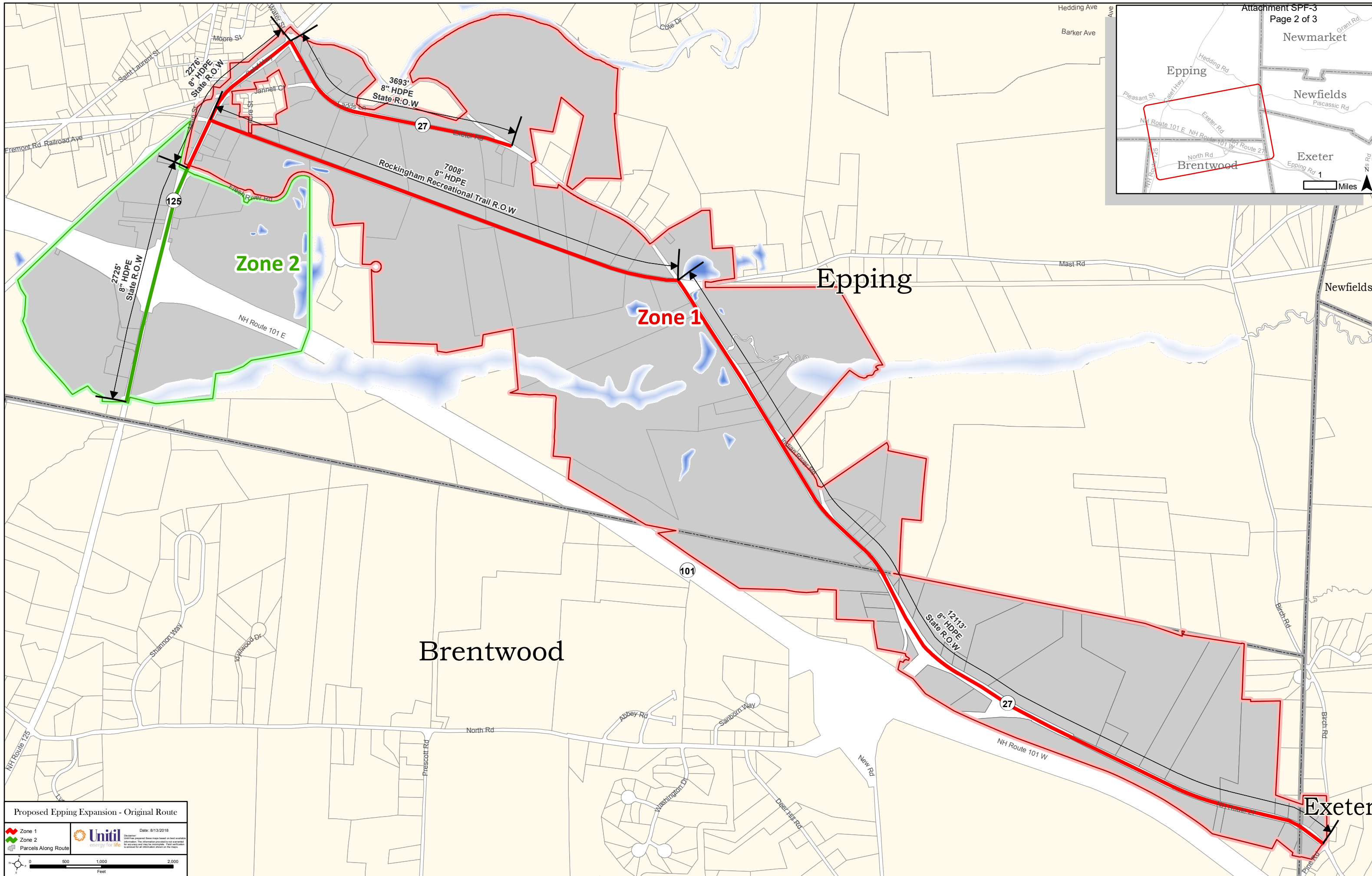
Request No. Staff 1-28 Witness: Kevin Sprague and Christopher LeBlanc

Request:

Please provide a map with the size and footage indicated for each section (right of way state or town or private) of main planned.

Response:

Please see Staff 1-28 Attachment 1 for a map of the original route and Staff 1-28 Attachment 2 for a map of the revised route.

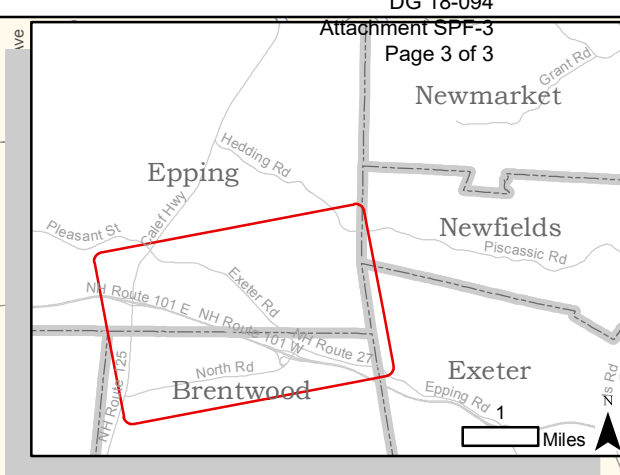
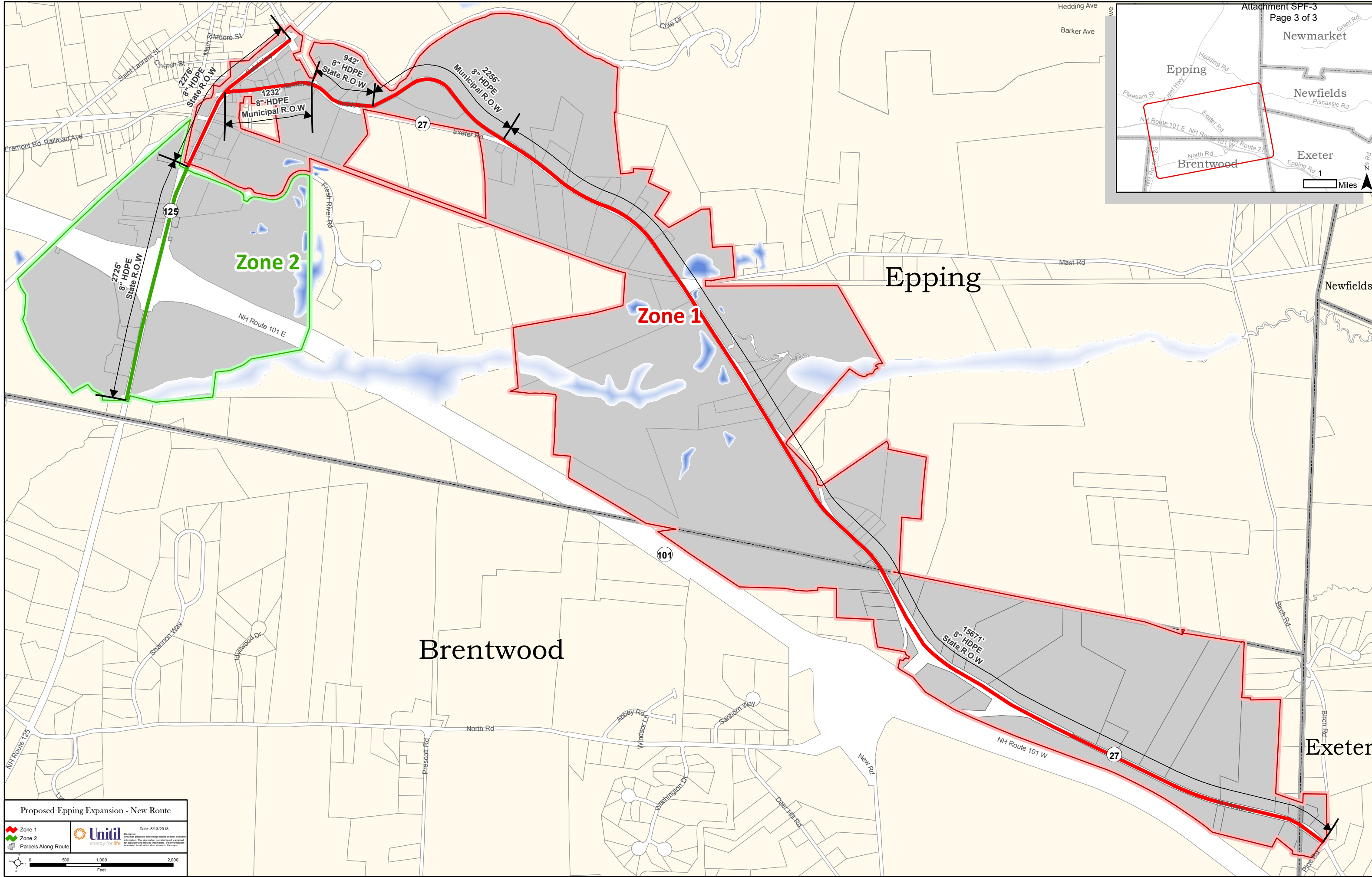


Proposed Epping Expansion - Original Route

■ Zone 1
■ Zone 2
 Parcels Along Route

Date: 8/13/2018
Disclaimer: Unitil has prepared these maps based on best available information. The information provided is not intended for use as a legal document. It is not a guarantee of accuracy and may be incomplete. Field verification is required for all information shown on the map.

0 500 1,000 2,000
 Feet



Proposed Epping Expansion - New Route

■ Zone 1
■ Zone 2
 Parcels Along Route

Date: 8/13/2018
Disclaimer: Unitil has prepared these maps based on best available information. The information provided is not intended for use as a legal document and may be incomplete. Field verification is required for all information shown on the maps.

0 500 1,000 2,000
 Feet