

From: Kevin Leonard kevin@northpointeng.com 

Subject: RE: Northern Lights - Third Party Comments

Date: March 12, 2024 at 3:34 PM

To: Sam Foisie SRFoisie@meridianlandservices.com

Cc: Alec (aajjmac@tds.net) aajjmac@tds.net, Neil Faiman neil@faiman.org, Aaron Thibeault Aaron@northpointeng.com

KL

Sam,

Yes, sorry I expected those to get out by now...but have gotten thrown a couple curve balls the last 24 hours.

Here is clip regarding crossing subject:

ZBA – Special Exception for Utilities at Wetland Crossing

At the request of you and the design engineer we have looked at the proposed utility improvements at the wetland crossing. We understand that the underground electric line will run from the utility pole at NH Route 101 to the main building at the back of the property. We also understand that a water service will run from the main building to the greenhouse/farmstand building at the front of the property. Similarly, a sewer force main (SFM) is proposed to convey effluent generated at the greenhouse/farmstand structure back to the leachfield adjacent to the main building out back.

We have the following comments related to the proposed underground utilities at the wetland crossing:

- 1. Please specify waterline size & material.**
- 2. Please specify SFM size and material.**
- 3. We understand from correspondence with the design engineer that he intends to sleeve the SFM line at the wetland crossing to create additional protection to the wetland. We recommend that this be designated on the plans and a detail be provided for the same. We agree that implementation of a sleeve assures additional protection to the wetland and believe it is a worthwhile effort.**
- 4. We understand that the existing crossing is being replaced with a 30" RCP culvert to convey stormwater flows. We believe that additional detailing should be provided to specify the depth of both the water and SFM pipes at the crossing. Both have the potential to be susceptible to freezing without adequate cover conditions. We recommend the use of rigid insulation for these lines in addition to specifying design elevations at the crossing. It is important to recognize that larger diameter pipes will be subject to freezing temperatures inside the culvert.**

I am releasing whole review letter to Town now.

Kevin

Kevin M. Leonard, PE

Principal Engineer





119 Storrs Street, Suite 201
Concord, NH 03301
Phone: (603) 226-1166
Direct: (603) 261-2932
www.northpointeng.com

From: Sam Foisie <SRFoisie@meridianlandservices.com>
Sent: Tuesday, March 12, 2024 3:28 PM
To: Kevin Leonard <kevin@northpointeng.com>
Cc: Alec (aajjmac@tds.net) <aajjmac@tds.net>; Neil Faiman <neil@faiman.org>
Subject: Northern Lights - Third Party Comments

Kevin,

I believe you mentioned finishing up the northern lights comments prior to tonight's meeting. If those have been completed and there is reference to the crossing, could they be provided prior to the meeting with enough time for me to review them?

Thank you,

Sam

Samuel R. Foisie, P.E.
Project Manager

Meridian Land Services, Inc.
31 Old Nashua Rd #2,
Amherst, NH 03031
P (603) 673-1441 F (603) 673-1584
srfoisie@meridianlandservices.com
www.meridianlandservices.com

***Land Use & Development Consultants, Serving New Hampshire and
Massachusetts
Civil Engineering - Land Surveying - Permitting - Wetland & Soil Mapping -
Septic Design - Environmental Services***