

From: [Nelson, Kurt I](#)
To: [Faunce, Jasmin - FS, NH](#)
Cc: [Steven Riker](#); [Tracy Tarr](#); [Steven Riker](#); [Harris, Samuel D](#)
Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope
Date: Thursday, January 9, 2025 2:38:40 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Hi Jasmin,

Here are answers to your questions:

- The 15 borings are proposed in support of the 23 structures which are proposed to be installed using micropile structure foundations that can be installed using helicopter construction methods utilizing light-weight drilling equipment that can be flown into the ROW corridor. This includes both the locations in the bog and structure locations in the Kinsman Ridge area which will likely encounter shallow ledge. The boring locations proposed should provide enough data for design of the foundations for these 23 structures. The other structures in the WMNF are proposed to be installed using conventional direct imbed methods that will involve use of traditional larger drilling equipment.
- There are no specific acronyms associated with the HWT casing and HQ drilling rods.

I am working with our contractor to identify specific helicopter landing locations to transport personnel to the bog portion of the ROW and will get you that information ASAP. The existing helicopter pad shown on the plan set near existing structure 265 will be utilized for personnel transport into the ROW corridor for the locations in the Kinsman Ridge area.

Thanks.

From: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>
Sent: Wednesday, January 8, 2025 3:01 PM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Steven Riker <Steven.Riker@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>
Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope

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Hi Kurt,

A few more follow ups:

- The project summary states that “The structure locations described above require geotechnical subsurface drilling investigations to collect data for structure foundation design needs.” What is it about these 15 particular sites that need this work to be done that separates them from the other 125 sites? I know it has to do with the unknown “depth” of the bog areas, but I didn’t want to use the incorrect terminology.
- In reference to HWT casing and HQ drill rods, are these acronyms for anything? I’m not finding what they stand for in a cursory search, and the FS doesn’t like to publish unidentified acronyms.

Thanks,

Jasmin

From: Nelson, Kurt I <kurt.nelson@eversource.com>

Sent: Monday, January 6, 2025 4:26 PM

To: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>

Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Steven Riker <Steven.Riker@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>

Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope

Hi Jasmin,

Here is some follow up to your questions:

1. The work duration is 16 working days, with two crews. Delays caused by weather or other factors would prolong the work timeframe.
2. GZA will be sending you a link to the cultural resource archeological and above ground survey documents
3. I’ve requested comment from our contractor regarding your question about drop zones and will report back on that ASAP.

Thanks.

From: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>

Sent: Monday, January 6, 2025 12:12 PM

To: Nelson, Kurt I <kurt.nelson@eversource.com>

Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope

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Sorry Kurt, one more clarifying question. On page 3 of the project summary, it states that "it is anticipated that it will take 16 days to complete the work." Does that mean one site per day?

Thanks!

From: Faunce, Jasmin - FS, NH
Sent: Monday, January 6, 2025 8:11 AM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>; Miller, Mason <MTMiller@CruxSub.com>
Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope

Hi Kurt,

I understand all equipment and personnel will be flown in via helicopter, but I wanted to clarify that all equipment/materials/personnel will be dropped (and picked up again) at each of the depicted work pads, correct? Can they get that close and drop it fairly precisely? Or will the drop zones be close to the work pads and they be moved to the target location? If so, please specify where those exact drop zones are and how they will be moved.

Thanks,



Jasmin Faunce (she/her)
Realty Specialist
Forest Service
White Mountain National Forest

c: [REDACTED]
jasmin.faunce@usda.gov

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From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Thursday, January 2, 2025 9:11 AM
To: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>
Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>; Miller, Mason <MTMiller@CruxSub.com>
Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope

Hi Jasmin,

Happy New Year. Thank you for catching that. Str 270 is not a proposed drilling location.

Thanks.

Kurt Nelson



Manager, Licensing & Permitting

13 Legends Drive

Hooksett, NH 03106

Office: [REDACTED]

Cell: [REDACTED]

kurt.nelson@eversource.com

From: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>

Sent: Thursday, January 2, 2025 8:27 AM

To: Nelson, Kurt I <kurt.nelson@eversource.com>

Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>; Miller, Mason <MTMiller@CruxSub.com>

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Thanks Kurt and Happy New Year everyone!

Is STR 270 a proposed drilling location or not? It's listed on Form 299 but not mentioned on page 1 of the letter you sent on 12/23, nor is it indicated on the map set. Please confirm.

Best,
Jasmin

From: Nelson, Kurt I <kurt.nelson@eversource.com>

Sent: Tuesday, December 31, 2024 9:40 AM

To: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>

Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>; Miller, Mason <MTMiller@CruxSub.com>

Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope

Hi Jasmin,

Please see answers to your questions below.

Hope you have a Happy New Year. We're glad to answer any additional questions you may have.

Thanks.

Kurt Nelson



Manager, Licensing & Permitting

13 Legends Drive

Hooksett, NH 03106

Office: [REDACTED]

Cell: [REDACTED]

kurt.nelson@eversource.com

From: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>

Sent: Monday, December 30, 2024 12:34 PM

To: Nelson, Kurt I <kurt.nelson@eversource.com>

Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>

Subject: RE: [External Email]X-178 Geotechnical Boring Project Scope

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Hi Kurt,

A few questions upon my initial review:

- On Page 3, in the Constructability section: is the helicopter transporting drill equipment

and personnel to *each* structure location? Or, in other words, will the drill equipment and personnel be traversing on the ground between structures? If so, what kind of “vehicle” is the drill equipment (wheeled vs. tracked)?

- There will be no on the ground vehicle travel between drilling locations.
- It was mentioned over the phone that the drill diameter is around 6 inches, but it’s not confirmed in the project proposal.
 - Crux will be using both HWT casing and HQ drill rods. HWT casing OD measures 4.50" OD not including the OD of the casing shoe, which can be measured out at approximately 5.50" depending on shoe style. Crux does not anticipate using casing and/or drilling rods larger than HWT.
- Page 72, it’s stated that “Drill Crew/s will perform light brushing and clearing for drill and support equipment /materials to be placed on even ground. Slight deviations within the slope are acceptable” How will this “even ground” be achieved? What are considered acceptable slopes?
 - Based on previous site visits, the overall ground conditions are considered "flat". There are irregularities in the flatness of the ground that will be mitigated with matting as stated within the set up work plan. If required, Crux will utilize cribbing/matting and leveling decks/platforms to create a safe working surface. An example of a leveling deck/platform is shown below.

Example of drilling platform



Thanks,
Jasmin



Jasmin Faunce (she/her)
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From: Nelson, Kurt I <kurt.nelson@eversource.com>

Sent: Monday, December 23, 2024 2:52 PM

To: Faunce, Jasmin - FS, NH <jasmin.faunce@usda.gov>

Cc: Steven Riker <Steven.Riker@gza.com>; Tracy Tarr <Tracy.Tarr@gza.com>; Harris, Samuel D <samuel.harris@eversource.com>

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Hi Jasmin,

Attached is the Geotechnical Boring Scope of Work Description for the X-178-2 Transmission Line in the White Mountain National Forest in Lincoln and Easton, NH. We are happy to answer any questions and provide additional information as requested. If helpful, a Teams call with our Geotechnical Boring contractor can be arranged.

We appreciate your review.

Thank you.

Kurt Nelson



Manager, Licensing & Permitting

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kurt.nelson@eversource.com

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