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AFTERNOON SESSION (Resumed at 1:17 p.m.)

PRESIDING OFFICER WEATHERSBY: Okay.

CROSS-EXAMINATION

Welcome back, everyone. We'll resume our
hearing and proceed with cross-examination by
Attorney Ratigan for the Town of Newington.

BY MR. RATIGAN:

Q. Good afternoon. My name is John Ratigan. I represent the Town of Newington. I think I'll start my questions directly to Mr. Bowes. But if you feel that you need to consult with someone else, please feel free to do so. I'd just like to get the information on the record.

I've got a historical question for you.

Back on January 29 of 2015, Eversource made a presentation to the Newington Planning Board.

And I'll represent to you that they, at the presentation, they proposed -- there was a proposal for crossing Little Bay with six underwater cables. And I wondered, now that it's been reduced down to three, if you could explain what the rationale was for going from

six down to three. If you know.

- 2 A. (Bowes) Do you have a copy of the presentation?
- 4 Q. Yeah. Dennis, could you please. Could we approach the witness?

MR. RATIGAN: By way of background, this is part a PowerPoint presentation handout that was also handed to the planning board on January 29th, 2015.

MR. WAY: Do we have this as an exhibit already or --

MR. RATIGAN: No, I'm just asking a question. He asked me for information to refresh his recollection, I assume.

MR. WAY: Okay.

A. (Bowes) Yes, I see it and I understand the context. At that time, it was a pre-application submittal, and it was our understanding at that time that we could not procure individual cables, or three cables that would have the necessary ampacity.

Since that time, and for the filing, we've learned that we can, from LS Cable, they can design and build submarine cable that will

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- meet the requirements and only require three cables and not six.
- Q. Thank you very much. Moving on from that question. Yesterday you testified that the Company would be installing some roadside screening in conjunction with aerial road crossings?
- 8 A. (Bowes) That is correct.
- 9 Q. And once those screenings are established and
 10 the plants grow and mature, if you had to go
 11 back in and take some of them down in order
 12 to provide access for maintenance and
 13 repairs, would you be replanting them again
 14 when you're done?
- 15 A. (Bowes) Yes, we would.
- 16 Q. Thank you.

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Another historical question. It's my understanding, and if you can confirm this, when the original plan and the Project processes were presented to the Town of Newington, I think it was at a time frame when Eversource believed that they'd have to bury the cable, really starting from Gundalow, going all the way up through to

- A. (Bowes) Yeah, I know we had FAA height restrictions for some of the Town of Newington alternatives that we studied. I don't believe at that distance that there would be FAA restrictions for the structures from Gundalow Landing to Hannah Lane.
- Q. So, no recollection, at least at this time, that there was -- it was the flight path area that governed the height restrictions. So you don't have a recollection that there was a wider area that the FAA was requiring.

And I understand that later you talked with the FAA and worked with the FAA, and they relieved you of having to bury it all because of their height restrictions, because you presented information that showed that you could satisfy their height restrictions and still meet their design criteria.

- A. (Bowes) I think the simple answer to that is yes.
- Q. Okay. Do you have -- because that was the

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original presentation that was made, you know, to the planning board, that there was going to be a long area of burial, and then you were relieved on it. I know that when you made those presentations to the board, it included a cost budget. And so do you have any idea of what the savings were once you realized that you were relieved of having to basically go from the Flynn Pit area to Hannah Lane underground to meet FAA requirements?
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- 12 A. (Bowes) I can answer in general terms what
 13 the cost differential is between overhead and
 14 the underground.
- 15 Q. Sure.

- A. (Bowes) I'm not sure we had the precision in
 the estimate at that point to say how much
 would be saved. But in general, it's
 probably a savings of, say, \$8 million a mile
 to go overhead versus underground.
- Q. So if that's roughly a mile, you were relieved of basically \$8 million of cost that was in the original budget.
 - A. (Bowes) Or within -- so, again, I'm not sure

it would be the original budget. But it
would be within an overall project cost, I
would agree.

Q. Okay. Good. Thank you.

And with respect to the testimony that you made yesterday about the crushed gravel that would be necessary to establish the work pads around the structures along the line, I think you mentioned that during -- I think I'd requested that perhaps the gravel could be removed and it could be loamed and seeded after the work pad piece was done and you'd moved on. Was that a correct summary of what I think your discussion was?

- A. (Bowes) What I recall was talking about the MOU we have with the Town of Newington that talked about removal of the access roads at the end of the Project.
- Q. Okay. So that's what you were referring to.
 - A. (Bowes) Yeah, I don't remember about Durham, about reseeding the work pads. Although, the work pads will be removed. And I'm not sure reseeding would be the proper restoration at each location, but it could be at many

locations.

Q. Okay. I'd like to draw your attention to your March 29, 2017 testimony, which is Applicant's Exhibit 7, if you have that handy. And when you pull that up, if you could turn to Page 6, please.

Now, in that testimony, on Exhibit 7,
Page 6, Lines 10 to 11, you state that Public
Service remains committed to working with the
Town of Newington to reduce concerns and
potential impacts, and that based on Public
Service's continued outreach with the Town of
Newington, it is the Company's position that
the amendment, the plan amendment, addresses
the concerns raised by the town and reflects
a more effective project design as it
traverses, you know, the transmission line
route.

You're aware that the Town of Newington has master plan requirements that require the burial of transmission lines in town?

A. (Bowes) I know there's a master plan that talks about transmission lines in residential areas. I didn't know if it required

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- 1 undergrounding.
- Q. Okay. If I represent to you that it does
- 3 require that, is Public Service/Eversource
- 4 committed to work with the town on burying
- the line through both the residential
- district and the historic district?
- 7 A. (Bowes) Beyond what has already been done?
- 8 Q. Beyond what's already been committed to.
- 9 That's correct.
- 10 A. (Bowes) No, I don't believe we are making
- that commitment today.
- 12 Q. Okay. So the commitments that you have, they
- wouldn't -- it's your position that they
- wouldn't extend towards allowing the town to
- 15 comply with its regulations with respect to
- 16 line burial in the residential and historic
- 17 districts.
- 18 A. (Bowes) My only pause is you used the word
- 19 "regulation."
- 20 O. Yeah.
- 21 A. (Bowes) It's a plan, I believe, right, not a
- 22 regulation?
- 23 Q. Yes, it is a master plan requirement. Right.
- 24 A. (Bowes) So we would not comply with that part

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of the master plan for Newington.
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- Q. Directing your attention -- you've
- addressed -- you've adopted Mr. Jiottis's
- 4 testimony?
- 5 A. (Bowes) Yes, I have.
- 6 Q. Okay. So his testimony appears in
- 7 Applicant's' Exhibit 6. If I could direct
- 8 your attention to Page 16 --
- 9 A. (Bowes) Just a moment.
- 10 Q. Sure.
- 11 A. (Bowes) Okay. I have the page.
- 12 Q. Yeah. Oh, Page 16. Sorry.
- 13 A. (Bowes) Yes, I have it.
- 14 Q. Okay. So at Lines 5 to 6, the testimony
- 15 provides that the Project is designed to
- 16 reduce potential visual and environmental
- 17 impacts to the greatest extent possible as
- 18 constrained by existing property rights,
- 19 existing infrastructure and geography.
- Would you agree with me that, if the
- 21 line were buried, it would reduce potential
- visual impacts in the Town of Newington?
- 23 A. (Bowes) So you're asking me to parse out the
- first part, but not the second part. We

- don't have existing land rights along the right-of-way for that portion, so it's a combined sentence.
- 4 Q. Yes, but you've not sought to acquire them, 5 have you?
- 6 A. (Bowes) Yes, we have.
- Q. Oh, really? From whom have you sought to acquire -- Mr. Plante is nodding "No."

9 (Discussion among panel members)

- 10 A. (Bowes) So we proposed to relocate the
 11 transition structure off the Frink Farm and
 12 outside the historic district -- I'm sorry -13 outside the historic district, but we were
 14 denied the underground property rights to do
 15 that. That's the one example I have for you.
 - Q. All right. So I know the Frizzells have been intervenors in this Application. They are the property owners who are adjacent to the beautiful, open field that's further to the east beyond Fox Point Road. Did you seek to acquire those land rights for undergrounding?
- 22 A. (Bowes) We did not.

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Q. No. And if you were given those rights for undergrounding, would you put the line

- 1 underground in that area?
- 2 A. (Bowes) We would not.
- 3 Q. So then it's probably not accurate to say the
- 4 Project is designed to reduce potential
- 5 visual and environmental impacts to the
- greatest extent possible, because you're
- 7 putting self-imposed limitations on this.
- 8 A. (Bowes) Maybe you can be more clear about
- 9 what limitations I'm placing on those.
- 10 Q. Well, there is no constraint if the property
- owner is willing to give to you or sell you
- at a commercially reasonable price the
- 13 underground rights. Then you would have no
- constraint putting the line underground
- across that open field area, would you?
- 16 A. (Bowes) So that would reduce the visual
- 17 impacts, yes. It might not reduce the
- 18 environmental impacts.
- 19 Q. Oh, it would increase environmental impacts?
- 20 A. (Bowes) Yes.
- 21 Q. And are you suggesting that's a reason not to
- 22 put the line underground?
- 23 A. (Bowes) No. I'm just saying that it's a
- limitation that you described, and I'm just

- saying it's visual, yes, but environmental,
- 2 no.
- 3 Q. Are you familiar with the Northern Pass
- 4 Project?
- 5 A. (Bowes) Yes, I am.
- 6 Q. Did the Company commit to place 60 miles of
- 7 that project underground as part of its
- 8 project proposal?
- 9 A. (Bowes) Ultimately, yes, I think it did.
- 10 Q. And if Newington and the impacted residents
- supported the undergrounding of just not even
- the entire line, just say a portion across
- 13 from Fox Point Road across that beautiful
- field, is that something that you might be
- 15 willing to consider?
- 16 A. (Bowes) It is not.
- 17 Q. Are you familiar with the proposed easement
- 18 route as it crosses Little Bay to Portsmouth,
- the entirety of the route in Newington?
- 20 A. (Bowes) Yes, I am.
- 21 Q. And is it a correct statement to say that for
- a portion of that route, Gundalow Landing,
- anyway, within the easement rights that
- you've historically owned out there, there's

- no transmission or distribution line out there, is there?
- 3 A. (Bowes) Which portion of the --
- Q. The first part coming up from Little Bay up to Little Bay Road, the initial portion as you leave Little Bay.
- 7 A. (Bowes) So there's an easement which was
 8 acquired for a transmission line across that
 9 property, or set of properties.
- 10 Q. Yeah, but there's no line there.
- 11 A. (Bowes) It was removed, I believe, in the 1980s.
- Q. That's right. And the line that traverses
 from Little Bay Road to, I think it goes at
 least to Fox Point Road, that's a
 distribution line, isn't it?
- 17 Α. (Bowes) That's actually -- again, you mentioned a historical fact. Up until the 18 early 2000s, Public Service New Hampshire 19 20 classified its 34kV system on rights-of-way 21 as a transmission asset. So if you look at 22 the original easements for these, for this 23 line, it references a transmission line rather than a distribution line. 24 In early

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2000s, we reclassified as part of the ISO-New
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2
        England Regional Network Service Tariff.
        re-classified that 34kV transmission line to
3
        become distribution. So it was originally
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5
        sited, permitted, constructed and operated as
        a transmission line. It was reclassified --
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7
        or would have been reclassified in the early
        2000s as a distribution asset.
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- 9 Q. And it's been referred to consistently
 10 within, by your testimony and Mr. Jiottis's
 11 testimony, it's referred to as a
 12 "distribution line," isn't it?
- 13 A. (Bowes) Correct. That's the definition today
 14 is as a distribution line.
- Q. What's the kV threshold that normally distinguishes distribution from transmission?

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A. (Bowes) Well, again, up until around the year 2000, each state had a different definition of "transmission." Around the year 2000, right after the ISO-New England Tariff was formed, we consolidated those for all three states. And 69kV is now the differentiator or break point between transmission and distribution.

Q. Thank you.

- 2 Are you aware that the Town of Newington
- and Eversource signed a Memorandum of
- 4 Understanding that addresses, you know, road
- restoration and related protocols, as well as
- 6 blasting?
- 7 A. (Bowes) Yes, and many other things. Yes.
- 8 Q. Yes, and many other things. And one of the
- 9 things I noted in your July 27, 2018
- 10 testimony, which I believe is Exhibit 140,
- and that's at lines or Page 8, and it's at
- 12 Lines 12 to 15, I think that's where you
- describe the number of -- or the names of the
- 14 roads which Eversource has identified as
- 15 roads that will be used for the construction
- 16 project. Is that correct?
- 17 A. (Bowes) I haven't called it up yet. I'm
- 18 sorry.
- 19 Q. Oh, I'm sorry. Didn't mean to rush you.
- 20 A. (Bowes) And that was Page 8 I believe you
- 21 said.
- 22 Q. Yeah, Page 8, Lines 12 through 15.
- 23 A. (Bowes) Yes, I have it.
- Q. Okay. And then I'll also refer you to -- and

in that description there's a number of roads. There's Little Bay, Fox Point, Nimble Hill and other roads. And I'll represent to you that in Applicant's Exhibit 168, which is the Memorandum of Understanding that's been executed by the Town and by Eversource, that in that document, on Page 4, on Paragraph 4, it says that -- let's see. Oh, excuse me. It's Paragraph 5. It says at the conclusion of the paragraph that the only roads expected to be used by Eversource are Nimble Hill Road, Gundalow Landing and Little Bay Road.

To the extent that you've disclosed there are additional roads, I assume that you're in agreement that all the provisions of the Memorandum of Understanding would apply to those new roads that you've identified as being needed for construction.

- A. (Bowes) Yes, I would agree to that.
- Q. Okay. One other -- can you describe how equipment and materials, once the Project starts, will be moved to the site? In other words, you're going to have a lot of large equipment, a lot of bulky, long equipment

- that has to make its way to the site. Can you describe briefly how that will be accomplished?
 - A. (Bowes) Sure. Maybe I'll start and go through the various phases of the Project as well.
- 7 Q. Sure.

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- (Bowes) So the first phase I would say would 8 Α. be staking the right-of-way and identifying 9 the trees that have to be removed. 10 So that 11 would be done with, I would say, light-duty 12 equipment. And possibly the next activities would be the road-building activities, which 13 14 would probably require dump trucks, graders, 15 fairly typical road construction equipment.
 - Q. Excuse me. When you say "staking and identifying the trees," do you mean cutting into the area where you're going, or are you also talking about trees that could be elsewhere along the right-of-way that might have lower hanging branches or be too close on a corner, you know, because you have a large truck that might need a different turning radius?

A. (Bowes) So it would be trees that have been identified in the areas identified on the environmental maps. So it would include all those types of activities, both clearing the right-of-way to the necessary width. But also, if you need access, there would be some tree-clearing or tree-trimming as well.

After the roads are built, and possibly some of the access may be available today to bring on vegetation management equipment, again, there would be a large truck with wood chippers and things like that, that would remove the trees and trim the trees along the right-of-way.

The next phase of the Project would be the foundation portion, which would be where we'd be drilling holes for the direct, embedded structures or drilling holes for the concrete installations.

The next phase would be the structure erection, which would be using trucks that would deliver the steel poles, some in sections, obviously, based on their length. But that's typically done with a

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tractor-trailer type vehicle.

After that, there would be smaller line trucks that would be used, smaller than the tractor-trailers, at least, where we would be framing and possibly rigging for the conductor pulling.

And then at various segments along probably 4- to 5,000 feet, we'd be setting wire-pulling equipment, which, again, is a trailer and tensioner equipment, where we would maintain tension of the conductors while we pull them in.

And the last phase would be the line vehicles where we would connect the conductors to the insulator strings.

The final phase, for example, in

Newington would then be road removal. So,

similar equipment as we installed the roads

with we'd use to remove those roads, which

would include graders or bulldozers, as well

as dump trucks that would remove the

material.

Q. And I take it that not really knowing when any of this is going to start, there would be

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- coordination with public safety officials
 about time of day, you know, best time to
 travel, all those kinds of things for
 vehicles that might present, you know, a
 challenge to traffic, say in the morning rush
 hour or evening rush hour, if they're on the
 road at the same time?
- A. (Bowes) Yes, that's accurate. We'll publish a schedule and then we'll review the schedule at our weekly meeting with the Town of Newington and go through those types of activities. In addition to that is also going to be recreational use along some of these roadways which we'd have to take into consideration, and obviously the bus routes for school children at the beginning of the day and the end of the day. So all of those types of activities would be coordinated in that weekly construction meeting.
- Q. Thank you. There is a fair amount of testimony about the marine cables. Once they're installed, if they have to be repaired, what's that process like, and how long would something be out of service?

A. (Bowes) Sure. I can start, and Mark may be able to add additional details if I don't cover it. I know he has not spoken yet, so...

So the length of interruption -- I'll start with the second question first -- is going to be several weeks to months. The one advantage of an undersea cable is it's highly reliable. But when it does fault or become damaged from an external "aggression" I guess is the word used, the repair cycle is quite long. And it may require the manufacture of cable, it may require time-of-year restrictions again to do the work. And obviously the process itself, which I'll go into the first part of the question next.

So the first part would be locating the faulted area, and that could be done, you know, at least initially would be done by the monitoring equipment on both ends of the cable, at Madbury substation and Portsmouth substation. We'd try to indicate a precise location. That's probably accurate to within tens of feet, at best, maybe hundreds of

feet. After that we would have to place divers into the water to unearth the cable and also to identify the precise location of the break.

The next phase would be understanding how much of the cable section we'd have to replace. If it's a single-point failure or if it's a longer failure, possibly from an anchor drag, that could impact a longer piece or longer section of the cable. Ultimately, we'd have to move a barge out to the work site and excavate enough of the cable back to be able to bring the entire cable up onto the barge, cut out the section, splice a section on, on both ends, lower the section back into the bay and then re-cover the cable itself.

- Q. And is this easier or more complicated if the area of repair is underneath the concrete mattress area?
- A. (Bowes) So I would say in general it's probably harder to repair just because there's another sequence of activities. And at those locations, the cables are physically closer together. This is where they're

- starting to taper down from 30 feet apart to 1 2 a few feet apart. So you have that restriction to deal with. It's also somewhat 3 easier because it's maybe shallower water and 4 out of any currents you have in the channel. 5 So there's positives and negatives. 6 But it's 7 not a desirable location, regardless of where 8 it is in Little Bay.
- 9 Q. So what's the range of time frame when the line could be out?
- A. (Bowes) So, minimum three months. And
 maximum could be a whole year, a whole cycle.

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- Q. Given that this is a reliability project, do you have any built-in redundancy that you plan for that would accommodate, you know, the unlikely event that the cable goes out and then you had to make a repair?
- A. (Bowes) So there is redundancy in the system.

 And this actually provides some of that redundancy, another line into Madbury substation and improvements at Portsmouth substation. So this becomes part of that redundancy. But there would be exposure during that repair cycle for the same types

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26
         of events that could occur today.
1
                                  I have no further
2
                    MR. RATIGAN:
         questions. Thank you very much.
3
                    PRESIDING OFFICER WEATHERSBY:
                                                    Next
4
5
         up is the Conservation Law Foundation, Attorney
         Irwin.
6
7
                    MR. IRWIN: Thank you, Madam Chair.
8
                       CROSS-EXAMINATION
    BY MR. IRWIN:
9
         Good afternoon. My name is Tom Irwin.
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    0.
11
         represent the Conservation Law Foundation.
         Mr. Bowes, I have a few initial questions for
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         you related to Mr. Jiottis's testimony. And
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         that is Applicant's' Exhibit 6.
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15
         Specifically, if you could turn to Page 3,
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         Lines 7 through 9. Mr. Jiottis states there
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         that PSNH currently owns or has the legal
         rights secured for all the property, or the
18
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         property rights necessary to construct the
20
         entire project as proposed in the
21
         Application. Did I read that correctly?
22
         (Bowes) Yes, you did.
    Α.
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pursuant to the SEC's rules, an Applicant is

And that statement is important because,

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Q.

- required to provide evidence that the

 Applicant has a current right, an option or

 other legal basis to acquire the right to

 construct, operate and maintain the facility
- on, over and under the site; is that correct?
- 6 A. (Bowes) Yes, it is.
- 7 Q. Obviously, this project involves a
 8 significant use of land submerged beneath
 9 tidal waters. Are you familiar with the fact
 10 that land beneath tidal waters is owned by
 11 the State, subject to the Public Trust?
- 12 A. (Bowes) Yes.
- Q. And has Eversource gone through the necessary processes to acquire all rights for use of submerged lands beneath tidal waters?
- 16 A. (Bowes) Yes.
- Q. And could you describe that process that you've gone through, please.
- 19 A. (Bowes) Maybe I should back up as well and
 20 say this statement concerns the original
 21 Application to the SEC. It has since been
 22 amended. So I can make an affirmative
 23 statement that when the Application was
 24 filed, this was accurate. When we amended

- the Application, it was accurate. And today it is still accurate.
- 3 Q. Okay. Thank you.
- A. (Bowes) As far as the Project requirements
 for the crossing of Little Bay, that's a
 license agreement that the Company has to use
 those public lands, I think is the way you
 described it. So it's a license actually to
 cross that.
- Q. And when did Eversource or PSNH obtain that license, and from whom?
- I don't have the documents in front of me. 12 I Α. know we've gone through a process with, I 13 14 believe it's New Hampshire Public Utility 15 Commission, to obtain that license. 16 there may be successor licenses to that as 17 I know the original crossing here was It was a crossing along the same 18 in 1902. 19 corridor I believe in the 1950s, and then 20 obviously the rights were for this project.
 - Q. I'd like to show you a document I've marked as CLF Exhibit 23.
- 23 (Witness reviews document.)

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Q. What I've provided is correspondence from the

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New Hampshire Attorney General's Office,
1
         dated February 9, 2012, related to a proposal
2
         for natural gas line involving bedrock boring
3
         under tidal waters between Newington and
4
         Dover. And I'll draw your attention to the
5
         third paragraph in which the Attorney
6
7
         General's Office states that case law --
         "Pursuant to New Hampshire RSA 1:14 and case
8
         law, the land beneath tidal waters is owned
9
         by the state, subject to the public trust."
10
11
         we've already agreed that that is the case.
         It goes on to describe the process that
12
         ultimately involves Governor and Council
13
         review and approval for the use of tidally
14
15
         submerged lands.
16
              Has Eversource obtained approval from
17
         the Governor and his Executive Council for
18
         this project?
19
    Α.
         (Bowes) Probably a question for our
20
         attorneys. I don't have an answer to that,
21
         nor do I know if it's required.
22
         If I could please make a record request for
23
         any and all documents providing evidence
         related to the rights to cross Little Bay for
24
```

- purposes of the cable and any documents
 related to approval for the use of concrete
 mattresses in Little Bay.
- 4 A. (Bowes) Sure. That's fine.
- 5 Q. Thank you.
- 6 MR. NEEDLEMAN: Sure, but I believe 7 this was provided.
- 8 BY MR. IRWIN:

23

- 9 Q. Let me just back up. You indicated
 10 familiarity with public trust principles
 11 related to land beneath tidal waters. I
 12 assume you will agree that the concrete
 13 mattresses are intended to be permanent?
- A. (Bowes) For the life of the cable system.

 I'm not sure if that's your definition of

 "permanent."
- Q. Okay. Well, I think that's a term that's used in the Application. I assume you'll agree there is a proposal to use several thousand square feet of concrete mattresses in Little Bay, or potentially?
 - A. (Bowes) I would say "potentially." Again, we identified the areas where concrete mattresses might be needed and wanted to make

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sure that our New Hampshire DES permit -- our calculations were conservative, to make sure that we didn't understate potential need for those. So I would say at this point it's clearly not a guaranty that the full amount of mattresses would be needed, or if any mattresses would be need.
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- 8 Q. If mattresses are needed, though, I assume
 9 you agree they will be on subtidal lands?
- 10 A. (Bowes) Yes, below the mean high water mark.
- 11 Q. And in areas where people boat?
- 12 A. (Bowes) I would say, based on testimony I've
- heard at the tech sessions, certainly
- 14 kayakers use these areas.
- 15 Q. Also places where people fish?
- 16 A. (Bowes) I would assume so. I don't really
- have any firsthand knowledge if this is an
- area where people fish.
- Q. But you have knowledge of people fishing in Little Bay generally?
- 21 A. (Bowes) Oh, certainly, yes.
- 22 Q. And I assume you would agree that the
- subtidal land that would be filled with
- 24 concrete mattresses otherwise would be

- 1 natural habitat on the surface?
- 2 A. (Bowes) I think I understand the question.
- But when you added "the surface" -- I think
- 4 they're natural lands -- the land is actually
- 5 under the water. The surface is the surface
- of the water. So I don't want to parse words
- 7 here, but you kind of confused me at the end
- 8 of that.
- 9 Q. I'll restate the question. I assume you will
- 10 agree that the subtidal land that concrete
- 11 mattresses will be placed on otherwise will
- 12 be natural habitat?
- 13 A. (Bowes) I believe so, yes. Probably a better
- group would be the environmental group to
- 15 answer that question. But my understanding
- is yes.
- 17 Q. And there's a potential for concrete
- 18 mattresses to be visible at low tide; is that
- 19 correct?
- 20 A. (Bowes) There is a potential of that, yes.
- 21 Q. Just shifting gears briefly, Mr. Bowes. You
- were here yesterday when Mr. Quinlan
- 23 testified; is that correct?
- 24 A. (Bowes) Yes, I was.

- Q. And do you agree with Mr. -- related to the ISO-New England process during which the Seacoast Solution option and the Gosling autotransformer option were considered, do you agree with Mr. Quinlan's assessment of that ISO New England process as one in which stakeholder input was critical and an ongoing part of the ISO-New England process?
 - A. (Bowes) So I know he got many questions about this process. I will agree with the statement that you just made. I'm not sure that necessarily characterizes what he said.

 But I agree with what you said.

Q. Okay. I was reading fairly closely from Mr.

Quinlan's testimony at Applicant's Exhibit 2,

Page 4, Line 17.

Did Eversource ever -- this is a question I asked Mr. Quinlan, and he deferred it to you or Mr. Andrew. Did Eversource ever reach out itself to Seacoast communities that it knew, that Eversource knew would be affected by the options that were under discussion before the ISO-New England process?

- 1 (Bowes) So we did talk yesterday about this Α. 2 New Hampshire-Vermont study that was done which covered a very large area of the two 3 We did have participation in that states. 4 from the State of New Hampshire. Both the 5 Office of Consumer Advocate, and we had 6 7 participation from the New Hampshire Public 8 Utilities Commission in that process. you well know, we had participation of the 9 Conservation Law Foundation in that process. 10 11 So, although we didn't notify every town in those two states, we did have many parts that 12 were part of that stakeholder process. 13 14
 - Q. So I'll ask the question again, and slightly differently. Once the Seacoast Solution alternative was identified as an option by Eversource, and the Gosling autotransformer alternative was identified as an option by Eversource, did Eversource reach out to any of the communities that would be affected by those projects during the ISO-New England process?
- 23 A. (Bowes) Again, not to my knowledge.
 - Q. Okay. Thank you.

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Shifting gears, I have questions for David, for Mr. Plante. This relates as well to maintenance of the cables. Your prefiled testimony, Exhibit 8, Page 21, Lines 11 through 19, your testimony there describes what I guess I would sum up as the "splicing-in process." Could you describe that briefly.

- A. (Plante) Sure. And as Mr. Bowes has already touched on, much of this process -- and certainly Mr. Dodeman is the expert on actually doing it -- but the process involves, as Mr. Bowes alluded to, identifying the location of the fault or the failure in the cable system and raising it to the surface on a barge where the cable would then be -- you know, the damaged portion of the cable would be cut out and a new piece of contain would be spliced in, and then the entire system would then be laid back onto the floor of the bay.
- Q. Mr. Dodeman or Mr. Wall, do you have anything to add with respect to the splicing-in of a new segment of cable?

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A. (Dodeman) No, I think a very simple
explanation has already been given.

Q. Mr. Wall, do you have anything to add?
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- 4 A. (Wall) I agree with that.
- 5 Q. Thank you.
- Mr. Bowes, I have another question
 related to Mr. Jiottis's testimony, again,
 Applicant's 6. This is at Page 19, Lines 9
 through 15.
- 10 A. (Bowes) Could you repeat the page number
 11 again.
- 12 Q. It's Page 19 --
- 13 A. (Bowes) Yes, I have it.
- Q. -- and Lines 9 through 15. And I just have to get there myself.
- I'd just like to read a portion of that,

 starting at Line 9. Mr. Jiottis testifies,

 "The entire length" -- and I'm sorry. Let me

 back up. This relates to transportation of

 cable to the Project site for purposes of

 installing it at the Little Bay crossing; is

 that right?
- 23 A. (Bowes) Yes, it does.
- Q. So Mr. Jiottis states, "The entire length of

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each individual cable, approximately
1
2
         1.1-mile, will be transported to the Project
         site on the barge as a single length of
3
                 The barge must be able to cross
         cable.
4
         underneath the General Sullivan Bridge,
5
         Route 4/Spaulding Turnpike Bridge, which only
6
7
         allows for approximately a 30-foot clearance.
8
         This clearance limits the size and type of
         barge that can be used for the Project.
9
10
         limitations of the barge result in a design
11
         utilizing three single cables, one cable per
12
         phase, versus one cable with all three phases
         in a common bundle."
13
14
              Does this mean that Eversource is
15
         proposing three cables to cross Little Bay
16
         because it can't get the larger-size cable
17
         under the General Sullivan Bridge?
                (Discussion among panel members)
18
19
    Q.
         There's some conversation going on. If you'd
20
         like to speak, Mr. Dodeman.
21
    Α.
         (Dodeman) Yes, if I may, only because I was
22
         involved during the design phase as well for
23
         this project.
```

The limitation of height underneath the

General Sullivan Bridge is more of a question 1 2 of what type of laying equipment we're using on top of the barge. Typically you would use 3 a very high gantry and a coiling arm. 4 that gantry can be sometimes 70-plus feet 5 high. And for bigger cables, that would 6 7 require a bigger draw pipe. This is to control the torsion and the cable coming out 8 of the tank. That method is not feasible. 9 The question of whether or not we looked at a 10 11 three-cord cable, which is much heavier, is the limitation of actually the depth of the 12 bay. That's why we had to split it up into 13 three phases. 14

Q. Thank you. Was there consideration of bringing in multiple reels of the larger, heavier cable?

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A. (Dodeman) Yes. Again, during the planning phase, we looked at every available option to try to limit the number of crossings we have to do and shorten the Project duration, which is always a factor for the construction company. We try to keep the construction duration as short as possible. But with the

- weights and volumes that were calculated
 originally, which go back to Caldwell Marine,
 which was one of the original bidders on this
 project, we limited it to a single reel per
 phase run. And that's the depth -- that's
 the draft of the barge limitation again.
 - Q. So was there consideration of bringing in smaller, less cable in multiple reels -- less of the larger-size cable in multiple reels for splicing?

- A. (Dodeman) Yes. However, again, that is a design issue. Wherever possible you try to avoid putting splices into a cable. Splices are the most common failure point. They tend to be looked at as a weaker point in a cable system. So you always want a continuous length. Again, the continuous length of a three-cord cable system is too heavy to put onto a barge to work in this bay. So that's, again, another reason why we went to the three, single-cord phase.
- Q. So a decision was made not to use the heavier cable to avoid a splice.
 - A. (Dodeman) To a avoid a splice or splices.

- The other thing is there are limitations in the ampacity and voltage ratings on the three-cord cables that would require most likely a much bigger three-cord cable size.
- Q. Sitting here today, can you say whether it would have been a matter of a splice, two splices?
- 8 A. (Dodeman) I don't have the marine
 9 calculations. I would have to look that up.
 10 I certainly couldn't do it offhand. And that
 11 usually requires the assistance of someone
 12 like a marine engineer or someone. So I
 13 don't have the resources available as a cable
 14 manufacturer.
 - Q. The analysis that took place with respect to the larger-size cable and any other analyses to reduce the number of crossings of Little Bay, are those documents -- is that analysis in the record?
- 20 A. (Dodeman) I don't know offhand.

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- 21 Q. If not, I'd like to make a record request.
- A. (Dodeman) If the record exists. Yeah, I'd have to confer with attorneys on whether or not that documentation does exist.

		41
1		MS. MONROE: What's the request, Tom?
2		MR. IRWIN: The request is for the
3		analysis that was undertaken to conclude that
4		the larger-size cable could not be transported
5		to the Project site for the Little Bay
6		crossing; and as part of that, any analyses of
7		the number of splices that might be necessary
8		to use that larger cable.
9		MR. IACOPINO: What he referred to as
10		"marine calculations," that's what you're
11		looking for?
12		WITNESS BOWES: We understand the
13		request.
14		MR. IRWIN: Okay. Yeah, I'm not sure
15		that
16	A.	(Dodeman) Typically, just for the sake of
17		clarification to the panel, when you're
18		designing an installation, you have to pick a
19		barge that can work in the area. So we have
20		to look at the draft of the barge that's
21		how much barge is actually under the
22		waterline to make sure you're working in a
23		safe working depth. So that's priority
24		No. 1, is keep enough water under the boat.

And that's a big deal when you're working in areas of rock and mud flats.

The second thing we have to look at is aerial clearance of the -- again, the General Spaulding -- sorry -- the Spaulding Pike --

A. (Bowes) General Sullivan.

A. (Dodeman) The General Sullivan Bridge does create what we call an "air draft" situation, which limited us from using three-cord cable because of the drop height. You need a very large gantry with the coiling arm that takes the tension out of the cable. And it's far too big to work in this type of -- in this scenario. And it can't fit under the bridge.

The other thing we look at is the dimensions of the barge -- and I believe that a 180-by-50 was selected -- because we have to make sure that we can work in the confines of the work area, so that we can make the approach towards Welsh Cove on the eastern landing and we can make the approach towards the tidal flats on the western landing. So that was also looked at.

The cable that we can put onboard is

then limited to the engineering, based on -which we have to look at the deck-loading
capacity for these barges. So the decision
goes back to -- one of the final calculations
we have to look at is the deck loading to see
how much weight we can put on the barge. And
I think the happy number that we came up with
resulted in a weight that sort of not forced
us, but made us select a single-cord cable
system where we can do three, separate runs
of single cables.

Q. So, thank you for that clarification, Mr. Dodeman.

MR. IRWIN: And Mr. Iacopino, for your clarifying question, so I would say in terms of a request record, I'm interested in these marine calculations, but also in any analysis that was conducted to determine whether the three-cord cable could be brought in, in multiple spools or reels.

MR. NEEDLEMAN: Madam Chair, what is the relevance of this, first of all? And second of all, why were these requests not made during the normal course of discovery,

considering this is precisely the sort of thing that could have and should have been requested? I'm just concerned that we're being subjected to a wide range of data requests here that are not what I understand to be customary during the adjudicative process, but seem to just be more discovery, so to speak.

PRESIDING OFFICER WEATHERSBY: Mr. Irwin, do you have an answer?

MR. IRWIN: You know, I think with the back and forth with the witnesses -- and this has been evolving for some time -- you know, there are facts -- we're getting discovery daily, still. This is an evolving process. And this is critical information, and it is absolutely relevant to whether three cable crossings of Little Bay as opposed to one are necessary.

MR. NEEDLEMAN: I didn't hear anything in that explanation that in any way talked about anything that has changed or why it was that any of that couldn't have been requested during the normal course of discovery. That's what discovery deadlines in

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45
         the procedures are for, to gather this
1
2
         information.
                   MR. RICHARDSON: Ms. Chair, can I
3
         just --
4
               (Court Reporter interrupts.)
5
                   MR. RICHARDSON: I think it's
6
         important information relative to whether this
7
8
         is a least-impacting alternative, whether it's
         the best choice, the one that the Applicant has
9
         selected. I think it's very important, and I
10
11
         think it relates directly to the Project's
         impact. So I would join in the request for the
12
         information. Obviously, I agree it could have
13
         been requested earlier, but, you know, we don't
14
15
         live in a perfect world.
16
                   MR. IRWIN: And I would add, in terms
17
         of the evolving process here, you know,
         Mr. Wall testified yesterday to not yet having
18
19
         seen the final wetlands permit from DES because
20
         there are negotiations happening right now.
21
                   MR. NEEDLEMAN: Well, I'm not sure
22
         that's accurate. But you could ask him that
23
                 Nevertheless, I said what I need to
         say. I'm concerned about this ongoing
24
```

discovery process.

presiding officer weathersby: I'm going to overrule your objection. I do think the information is very relevant. It could have and should have been asked for before. But I think that, given its relevancy and the nature of these proceedings, that in this instance the record request will be allowed.

MR. IRWIN: Thank you.

10 BY MR. IRWIN:

- Q. Shifting gears. Mr. Wall, I have some questions for you about the concrete mattresses. You testified yesterday that mattresses will be placed wherever the jet plow cannot achieve 42-inch coverage; is that correct?
- 17 A. (Wall) Correct.
- Q. And actually, these questions may or may not be appropriate for you. I have some questions about the HDD and jet plow report.

 This is Applicant's Exhibit 133, and more specifically, Exhibit D, related to the concrete mattresses. Do you have that report in front of you?

```
47
1
         (Wall) Yes.
    Α.
         (Bowes) We believe we do, yes.
2
    Α.
         Okay. So, Attachment D, or Appendix D, again
3
    Q.
         relates to concrete mattresses. So should I
4
         be directing these questions to Mr. Dodeman
5
         or to Mr. Wall?
6
7
         (Wall) Either one. We'll look and -- sorry.
    Α.
8
         Appendix B?
         D, as in dog.
9
    Q.
10
                   MR. PATCH: Could we just have the
11
         exhibit number again?
12
                   MR. IRWIN: Exhibit 133.
13
                   MR. IACOPINO: We don't have an
         Appendix D to Exhibit 133. Is this the HDD
14
15
         comparison?
16
                   MR. IRWIN: I'm sorry.
17
         Appendix A. I apologize. So it's in
         Appendix A, titled, "Articulated Concrete
18
         Mattress Installation..."
19
                   WITNESS BOWES: I believe it's also
20
21
         Page 58 in the report.
22
                   MR. IACOPINO: Thank you.
23
                   MR. IRWIN: I have 53, Page 53 of the
24
         report.
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1 BY MR. IRWIN:
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- Q. So, actually just turning directly to

 Page 57, Section 1.1, around the middle of

 the page there's some narrative about

 conditions on the western landing. I assume

 that refers to the west side of Little Bay;

 is that correct?
- 8 A. (Dodeman) Correct.
- 9 Q. And the observations there are that there's

 10 exposed basement/bedrock, boulders, and stiff

 11 clays. Then the next paragraph relates to

 12 conditions on the eastern landing. And I

 13 assume that would be the Newington side of

 14 Little Bay; is that correct?
- 15 A. (Dodeman) Correct.
- Q. Then below that, in bold it says, "Western
 Landing Approach," and there's a suggestion
 of allowing for the conditional installation
 of approximately 160 linear feet. Is that
 what "LF" stands for?
- 21 A. (Dodeman) Yes, it does.
- Q. One hundred sixty linear feet of mattresses
 between intertidal zone and mud flat areas.

 Each mattress covers 20 linear feet of cable

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times 3 cable runs, totaling 24 mattresses.
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- So, 24 mattresses on the western side of
- 3 Little Bay.
- 4 A. (Dodeman) Correct. And I do have to point
- out for the record, this is from a 2016
- 6 document. This was still very early in the
- 7 Project. The environmental panel may have
- 8 recalculated the actual linear footages
- 9 covered for permanent impacts on Little Bay.
- 10 So I'm not sure these calculations are still
- 11 100 percent correct.
- 12 Q. Okay. Thank you. And this is an appendix to
- 13 the July 1st, 2018 report; is that correct?
- 14 A. (Dodeman) Correct.
- 15 Q. The specifications for the concrete
- 16 mattresses, in terms of surface area, they
- are 8 by 20 feet; is that right? So,
- 18 160 square feet each?
- 19 A. (Dodeman) Correct.
- 20 Q. So, according to these calculations, the
- 21 western side would have involved 3,840 square
- feet, and the eastern side, 1,920 square
- 23 feet?
- 24 A. (Dodeman) I believe your interpolation. I

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- 1 have no reason to doubt your mathematics.
- 2 However --
- 3 Q. You should.
- 4 A. (Dodeman) However, I'll give you the benefit
- of the doubt. Again, for the actual, final
- 6 calculations, I would like to defer that to
- 7 the environmental panel who did the permanent
- 8 impact report and calculations.
- 9 Q. Okay. Thank you.
- 10 So, in terms of the concrete mattresses,
- showing you first this is Appellant's -- or
- sorry -- Applicant's Exhibit 122, Page 23.
- 13 A. (Dodeman) We have the document. Oh, wait.
- 14 Stand by. Sorry. I misspoke.
- 15 Q. Okay. Can you see these documents on the
- screens in front of you?
- 17 A. (Dodeman) We can, but my eyesight is like
- 18 your math.
- 19 Q. Okay. I just wanted to know.
- 20 A. (Dodeman) Okay. We have it.
- 21 Q. So this is the western landing; is that
- 22 correct?
- 23 A. (Dodeman) That's correct.
- MR. IACOPINO: What's the page number

```
51
         on that one?
1
2
                    MR. IRWIN:
                                Page 23.
    BY MR. IRWIN:
3
         I'm pointing to an area that is near the
4
    0.
5
         western shoreline.
                              It's sort of a coarsely
         shaded area. Is this a representation of the
6
7
         concrete mattresses?
8
    Α.
         (Dodeman) Yes, it is.
         And do you have a sense of whether there are
9
    Q.
10
         24 concrete mattresses in this drawing or --
11
         which was the number provided in the report
         you just went through?
12
         (Bowes) So it looks like it's indicating
13
    Α.
         about 100 linear feet in this diagram.
14
15
         it looks like it's still three mattresses, or
16
         one mattress per cable is probably a better
```

about 100 linear feet in this diagram. And it looks like it's still three mattresses, or one mattress per cable is probably a better way to say it. So, 20 feet, that would be 5 mattresses per cable, times 3 cables; so, 15 mattresses looks like is displayed here.

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Q. Five mattresses per cable times three. Okay.

Next I'll show you from the same
exhibit, Applicant's Exhibit 22 [sic],

Page 28. This is the eastern shore; is that
correct?

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1 A. (Dodeman) That's correct.
```

- Q. Again, roughly shaded areas over the cables
- 3 I'm pointing to them now. Are these -- is
- 4 this area of concrete mattresses?
- 5 A. (Dodeman) Yes, it is.
- 6 Q. And I'll ask the same question in terms of
- 7 linear feet. Are we talking more than the
- 8 originally projected 12 mattresses here?
- 9 (Discussion among panel members)
- 10 A. (Dodeman) That looks to be about correct.
- But still, for the final numbers, I'd like to
- defer to the environmental group.
- 13 Q. Is it correct that that is a representation
- of 12 mattresses on the eastern side?
- 15 A. (Bowes) No.
- 16 A. (Dodeman) No, I believe that's more, from
- 17 what I'm seeing. It looks like more. But
- 18 I'd like to defer that to the environmental
- 19 panel.
- 20 Q. Okay. Thank you.
- 21 And the last number I've seen related to
- 22 square footage coverage of concrete
- 23 mattresses is in the text of appendix -- or
- sorry -- Applicant's 133, the HDD report,

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53
1
         Page 16, where there's a reference to
         8,681 square feet of concrete mattresses.
2
         that the latest number that you're aware of?
3
         (Dodeman) This is Exhibit 133, what page?
4
    Α.
         I'm sorry.
5
         Page 16. It's the first line under
6
    Q.
7
         "Wetlands."
8
                (Witness reviews document.)
         (Dodeman) I believe these numbers are the
9
    Α.
10
         numbers that were produced by the
11
         environmental panel, so I would say these are
12
         correct.
         Okay. So, 8,681 square feet --
13
         (Dodeman) Correct.
14
    Α.
15
         -- in tidal waters. Thank you.
    0.
16
               Is it fair to say that the effect of
17
         these mattresses on, say navigation, will be
         greater than the actual square footage of the
18
         mattresses themselves?
19
20
         (Dodeman) I would say it's negligible.
    Α.
21
         There's no -- from what we know of Little Bay
22
         and the traffic going through Little Bay, the
23
         traffic is mostly recreational. I can't see
         a 9-inch difference from --
24
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(Court Reporter interrupts.)
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- A. (Dodeman) The mattresses proposed are
 9 inches in height, which for recreational
 boaters would only make a difference at the
 nearest portions to shore where most likely
 people wouldn't be taking boats.
- 7 Q. Is there any anticipation of having to mark
 8 off areas that have been -- to mark off areas
 9 for navigation purposes where these
 10 mattresses will be placed?
- 11 A. (Dodeman) As far as I know, it wasn't

 12 anticipated. The proposal, I believe, was

 13 looked at by the proper authorities. Whether

 14 or not that would be dictated, I'm not sure.
 - Q. So, turning briefly to the wetlands permit.

 You know, Mr. Wall, I was struck by your

 testimony yesterday where you indicated you

 hadn't seen the final wetland permit, the

 final New Hampshire DES wetland permit.
 - A. (Wall) No. I'd seen the final list, but I don't think the actual -- there's still negotiation going on between our environmental group and DES.
 - Q. So have you seen --

- 1 A. (Wall) I have read the permits.
- 2 Q. Mr. Wall, have you seen the February 28, 2018
- 3 correspondence from New Hampshire DES to
- 4 Ms. Monroe, Administrator of the Site
- 5 Evaluation Committee?
- 6 A. (Wall) I have seen that. I wouldn't say I
- 7 know every line, but I have seen it.
- 8 Q. And that is Applicant's Exhibit 166. Do you
- have that in front of you? I can bring it
- 10 up.
- 11 A. (Wall) I don't have it.
- 12 (Document handed to witness.)
- 13 A. (Wall) Thank you.
- 14 Q. So the first sentence of this letter states,
- and I'll read it, "This letter is to notify
- 16 you that the New Hampshire Department of
- 17 Environmental Services Water Division Staff
- 18 have completed their technical review of the
- 19 Application, and we have made a final
- 20 decision on the parts of the Application that
- 21 relate to NHDES permitting for regulatory
- authority related to a wetland permit," and
- it names other DES approvals. Did I read
- 24 that correctly?

- 1 A. (Wall) I believe you did read it correctly.
- 2 Q. And if you flip to the next page and the
- following pages, at the top of each page it
- 4 states "NHDES Final Decision," doesn't it?
- 5 A. (Wall) It does say that. One thing I must
- add, though. I have not been involved in any
- 7 discussion between our environmental group
- and DES. And that is really the purview of
- 9 our environmental group, not the construction
- 10 group. So I would really have to leave any
- answers on that type of question to our
- 12 environmental group.
- 13 Q. Okay. Thank you.
- 14 Is any other member of this panel
- 15 involved in ongoing discussions with New
- 16 Hampshire DES?
- 17 A. (Bowes) I don't believe any of us are, no.
- 18 Q. Okay. But Mr. Wall, have you reviewed this
- 19 document?
- 20 A. (Wall) I have reviewed that document.
- 21 Q. Okay.
- 22 A. (Bowes) I have as well.
- 23 A. (Plante) Me, too.
- Q. Okay. So, Page 7 -- and again we're at --

- well, you have it in front of you. The exhibit number on this?
- 3 A. (Wall) Page 7?

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- Q. Exhibit 166, Page 7, that is the "Wetlands

 Bureau, February 28, 2018 Final Decision";

 correct? That's the title?
- 7 A. (Wall) That's what it says at the top of the page. Correct.
- 9 Q. The first paragraph is a project description.

 10 And seven lines down in that paragraph there

 11 is reference to "placement of concrete

 12 mattresses over shallow cable installation in

 13 Little Bay, 5,336 square feet." Did I read

 14 that correctly?
- 15 A. (Wall) You did read it correctly, yes.
 - Q. Turning to Page 9, these are the general conditions within this final decision document. Page 9, Paragraph 25 states, "Any further alteration impact areas" -- there seems to be a word missing. "Any further alteration impact areas for the Project beyond the Application materials received September, 2017, that are subject to RSA 482-A jurisdiction" -- I'll represent to you

- that's wetlands jurisdiction -- "will require 1 2 a new application and further permitting." Did I read that correctly? 3 (Wall) You read it correctly. 4 Α. Would you agree that going from 5,336 square 5 Q. feet of concrete mattress coverage to more 6 than 8,000 square feet of concrete mattress 7 8 coverage is further alteration of an impact area within DES's wetlands jurisdiction? 9 (Wall) As I stated before, my involvement is 10 Α. 11 in the physical construction, not the permitting of the Project. So I would defer 12
- 14 Q. Okay. Thank you.

Mr. Wall, I have a few questions about out-of-service cables. I assume you're the right person who I might direct questions?

that to our environmental group.

- 18 A. (Wall) Either myself or Mr. Dodeman.
- Q. Okay. So, Caldwell Marine conducted a study
 of out-of-service cables within the Little

 Bay crossing channel; is that correct?
- 22 A. (Dodeman) That's correct.
- Q. Actually, it's Applicant's Exhibit 73,

 Attachment D. Do you have that report in

- 1 front of you?
- 2 A. (Dodeman) Attachment D? Yes, sir, I think we
- do. We're just getting to that page.
- 4 A. (Wall) Yes, "F107 Cable Survey Final Report."
- 5 Q. And that's dated July 21, 2014?
- 6 A. (Dodeman) Correct.
- 7 Q. So this was an assessment of basically what
- 8 cables, what PSNH-owned cables are in Little
- 9 Bay right now; is that correct?
- 10 A. (Dodeman) Eversource. Yes.
- 11 Q. How many linear feet of cables currently lie
- on the floor of Little Bay out of service?
- 13 A. (Dodeman) Let me see this. It's difficult to
- 14 say with accuracy. Most of these cables --
- as you know, having read the report, the
- 16 entire survey had to be relatively
- 17 non-invasive, as in divers can only do visual
- inspections. And much of this cable is still
- 19 buried underneath the substrate on the
- 20 bottom. So you can interpolate from the OSI
- 21 data, which is overlaid in Figure 3 on that
- document, where the magnetometer hits, you'd
- have to do linear calculations. But that
- data is not really available. Again, that's

```
60
1
         all interpolated data for non-invasive
2
         techniques.
         So, some of those cables contain lead; is
3
    Q.
         that correct?
4
         (Dodeman) I can't answer that. I can't
5
    Α.
         answer that question.
6
7
                (Discussion among panel members)
                   DIR. MUZZEY: Madam Chair, could we
8
         just get a point of clarification whether we're
9
10
         working with Exhibit 73 as titled or Exhibit 73
11
         as labeled, because 73 is labeled "173."
                   MR. IRWIN: I've made that mistake
12
13
         myself. So is it 73 or 173?
14
                   DIR. MUZZEY: What's the title of
15
         what you're referring to?
16
                   MR. IRWIN: This is -- okay.
         me... Exhibit 73 is Mr. Wall's prefiled
17
         testimony, and I believe it is Attachment D.
18
19
                   WITNESS WALL: D, yeah.
                   MR. WAY: Which date?
20
21
                   DIR. MUZZEY: What is the date of
22
         that?
23
                                Let me get there myself.
                   MR. IRWIN:
24
                   WITNESS WALL: The date of the survey
```

```
report is 31st of July, 2014. The date of the
1
         exhibit is March 29, 2017.
2
                   MR. RICHARDSON: I think there's just
3
         a typo. I have the first page of that exhibit
4
         that says "173," but the PDF file is actually
5
         labeled "073."
6
7
                   MS. MONROE: I think I can clear this
8
         up.
              So the initial submittal, the Bates Stamp
9
         from the Applicant is incorrect. Everything
         had a "1" in front of it. And they've since
10
11
         been resubmitted, and it was sent to the
         service list. And I just got the updated
12
         files, and I just need to update the thumb
13
14
         drives for the Committee. So you should all
15
         have them corrected.
16
                   MR. IRWIN: So this is actually
         Exhibit 73?
17
                   MS. MONROE:
                                 That is correct.
18
19
                   MR. IRWIN: And it's the substituted
20
         prefiled testimony of Mr. Wall. And we're
21
         talking about Attachment D.
22
         (Bowes) So this report does not include the
    Α.
23
         chemical analysis of the cable samples.
         is in the docket. It's in another document.
24
```

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1 BY MR. IRWIN:
```

- Q. Yes, that's in the existing cable removal plan. And I'll have some questions about that shortly.
- 5 A. (Bowes) That is correct.
- 6 Q. Thank you.
- So, Page 7 of this report on

 out-of-service cables includes a table. And

 it indicates cable condition for each cable.

 And for I believe every one of them, with the

 potential exception of one, cable condition

 is described as, among other things,

 "recoverable."
- 14 A. (Dodeman) Correct.
- Q. Does that mean those cables could be removed from Little Bay?
- (Dodeman) This was when Caldwell Marine was 17 Α. contracted to have divers do a visual 18 19 inspection. The "recoverable" designation 20 was to say if the cable looks like it's in 21 good enough condition that it could be 22 winched aboard in one piece without falling 23 apart and creating problems. "recoverable" is an actual diver saying this 24

- cable looks good. We think we can recover it in one piece. And the recoverable -- the criteria they used was the condition of the armor wires on the cable.
- Q. Okay. Thank you. But only sections of existing cables will actually be removed, according to the Application; is that correct?
- 9 A. (Dodeman) That's correct.
- Q. And how many linear feet are proposed for removal?
- 12 A. (Dodeman) I'm not sure. I'm not sure

 13 offhand. But this has been submitted in

 14 other sections of testimony, so I'd have to

 15 take a look.
- Q. Okay. And while you're doing that, perhaps,
 Mr. Wall, could you confirm that what I have
 on the Projector now is from your prefiled
 testimony? Can you confirm that the yellow
 lines are out-of-service, existing cables?
- 21 A. (Wall) That's correct.
- 22 A. (Dodeman) If I can go back to answer the
 23 linear feet calculation for cable intended on
 24 being removed? Somewhere in this document I

```
did make an estimate. This is while I was
1
         still employed at Caldwell Marine.
2
         make a mathematical estimate, which I can't
3
         seem to easily find. But later on, when the
4
         environmental people took a look at the work
5
         during the filing -- this is the 2014
6
7
         document we're reading from -- they did a
         recalculation, and I believe their
8
         recalculations were what was used for the
9
         actual data required for the Application.
10
11
         I would have to defer the final number again
         to that number from the environmental panel.
12
         Okay. Thank you.
13
    Q.
14
              So what I have on the Projector is from
15
         Applicant's Exhibit 106 --
16
         (Wall) Yeah, okay.
    Α.
17
    Q.
         -- Page 4. So, just few questions about this
         then. Actually, if you could just describe
18
              There's a description of a Clearance
19
         it.
20
         Area 2. You already stated the yellow lines
21
         are existing out-of-service cables already in
22
         Little Bay.
23
         (Wall) Correct.
    Α.
         Could you describe what Clearance Area 1 and
24
    Q.
```

- 1 2 are about?
- 2 A. (Dodeman) These areas have been -- are shown.
- This is the corridor that Eversource is
- 4 planning on using, or the right-of-way
- 5 they're allowed to use. And what was done
- 6 was a green box was put over the areas of old
- 7 cable that exist in the corridor that needs
- to be used for the new cable installation.
- 9 So this highlights the areas where cable
- needs to be removed. Those yellow lines that
- are intersecting the green box need to be
- removed to give us a working corridor.
- 13 Q. So any of the yellow lines not within those
- 14 clearance areas will remain in Little Bay.
- 15 A. (Dodeman) That's correct.
- 16 Q. Turning to Page 5 of the report we were
- discussing, do you have that in front of you?
- 18 It's the Caldwell Marine report.
- 19 A. (Dodeman) Yes.
- 20 Q. It states, "This survey identified the four
- 21 existing out-of-service cables, as well as
- 22 other anomalies within the corridor. Due to
- the existing cables being located mostly in
- the northern half of the cable area, CMI" --

```
66
         I assume Caldwell Marine -- "advised PSNH
1
         that the most feasible route for a new cable
2
         would be in the southern part of the
3
         corridor." Did I read that correctly?
4
         (Dodeman) You're reading that correctly.
5
    Α.
                                                     Ι
         do have to make a slight clarification,
6
         however.
                    I believe this -- at the time the
7
         plan was for six cables, with a certain
8
         amount of separation between the cables.
9
                                                     The
         new configuration, which was a development
10
11
         that happened long after Caldwell was
         involved with the Project, the new
12
         configuration of three cables would also, I
13
         believe, be still trending towards the
14
         southern half of the corridor. But there is
15
16
         not six cables with that separation anymore.
17
    Q.
         Does that mean less of the out-of-service
         cable will be removed?
18
19
    Α.
         (Dodeman) That I can't say. I need to defer
20
         to the environmental panel in terms of linear
21
         distance.
         Okay. On the Projector is a NOAA chart.
22
         This is from your testimony, your prefiled
23
```

testimony, Mr. Dodeman, Attachment C.

1 A. (Dodeman) Yes.

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- Q. The dashed lines on either side, are these the boundaries of the transmission channel?
 - A. (Dodeman) This is the boundaries, the charted boundaries. And this is an old NOAA document that has now been -- it's still a NOAA document, but it goes all the way back to what was called the "DMA charts." So at one point I was able to access older charts, which I can't do anymore. But these lines are actually part of the NOAA chart system that designates a known cable corridor. So
- non-anchoring, non-stopping, don't play in this area.

this indicates to boaters that this is

- Q. And the continuous, bold red lines crossing
 Little Bay, is that an overlay of the path of
 the proposed new cable?
- 19 A. (Dodeman) I believe that is. This actual
 20 line set is not something I put together. I
 21 think I provided the background chart for
 22 this.
 - Q. And would you agree that it trends towards the southern part of the corridor?

- A. (Dodeman) Certainly for the eastern half of the corridor as we look at this chart, yes.
- Q. And it certainly avoids a lot of the need to remove a lot of the existing cable that's existing already in Little Bay?

- A. (Dodeman) Yes. During the design we tried not to have to do any more work than you need to do. And cable recovery work is typically another time-consuming activity which would create cost. So from a construction standpoint, that's what we're looking at.
- Q. I assume this question is probably best directed to you, Mr. Wall, perhaps Mr. Bowes as well.

Has Eversource, or has anyone on behalf of Eversource, assessed the potential to reduce reliance on concrete mattresses by altering the course of the cable crossing?

- A. (Wall) Not that I know of, from a cable route point of view, no. I'll defer to others on the panel.
- 22 A. (Dodeman) I have to add that in terms of
 23 cost, and this is from the cable
 24 manufacturing side, in terms of cost, you

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want the amount of cable to be the least amount. And that goes for everything. Because that affects how much burial has to be done, it affects the overall copper and product price, obviously, of the system. you want the shortest distance between two straight lines and as straight a line as possible. So route alterations, if you look at the route, the way it was laid out, it's avoiding as much of the existing old cables as possible and trying to keep the straightest line possible with being able to work in the parameters of both the cable corridor and the bending radius that you're capable of making with a plow and the barge. If you were to take existing out-of-service Q. cables out of the equation and you could move that line, you could shorten the distance, couldn't you? (Dodeman) We could. But the turns that are Α. represented during the -- at the approach to

permitted landing or the expected landing for

the eastern landing as we head into that

notch called Welsh Cove, which is the

```
this project, those turns have to be
1
2
         reasonably constructable. So if we were to
         turn it any shorter and make that line any
3
         shorter between the eastern and western
4
         landing, that turn would then be laying right
5
         on the rocks in the shallows in the northern
6
7
         part of Welsh Cove. So we had to avoid that,
         which is why we swing a little bit to the
8
9
         southwest and then go up into Welsh Cove in a
         northeasterly fashion.
10
```

- Q. So your testimony, I take it, is based on landing where PSNH has acquired an easement.
- 13 A. (Dodeman) That's correct.
- Q. Okay. But I assume you would agree with me that easement rights can be acquired in different locations?
- 17 A. (Dodeman) I have no understanding of real estate.
- 19 Q. So I'd like to turn to Exhibit 106 now. This
 20 is the Eversource report titled, "Existing
 21 Cable Removal Plan." To whom on the panel
 22 should I direct questions?
- 23 A. (Bowes) I can certainly start and then maybe
 24 Mark can help.

- Q. Okay. Do you have that report in front of you?
- 3 A. (Bowes) Yes, I do.
- Q. So, according to this report, three out of four cables currently in Little Bay showed high levels of lead; is that correct?
- 7 A. (Bowes) Three out of the four cables were
 8 originally designed with a lead sheath. So
 9 that's part of the construction of the cable,
 10 so that would obviously have lead in them.
- 11 Q. Okay. So the report indicates that samples
 12 that were taken showed levels as high as
 13 2,400 milligrams per liter of lead. There
 14 were other samples as high as 1,900, 2,000,
 15 2,200 milligrams per liter of lead; is that
 16 correct?
- 17 A. (Bowes) Are you looking at Page 3?
- Q. Actually, farther into the report there's a lab report. I'll try to find the page for you. It's Appendix C, and it's a laboratory report on Page 4, on the bottom right-hand corner.
- MR. IACOPINO: Which exhibit you said?

- MR. IRWIN: This is Exhibit 106.
- 2 A. (Bowes) I have the page, yes.
- 3 BY MR. IRWIN:
- 4 Q. I assume you would agree with the numbers in
- this report, in terms of levels of lead
- 6 detected through sampling of various cables
- 7 or cable segments.
- 8 A. (Bowes) Yes, I would.
- 9 Q. And the report indicates that two of the
- 10 cables also contain oil-impregnated cellulose
- 11 paper; is that correct?
- 12 A. (Bowes) So this goes back to Page 2 or 3?
- 13 Q. I believe so. Actually, even Page 1.
- 14 (Witness reviews document.)
- 15 A. (Bowes) So, yes, on Page 1 it identifies each
- of the four cables that was found in the
- 17 construction technique or the design of each
- of those cables.
- 19 Q. And it indicates that the 1940s cable
- 20 contains oil-impregnated cellulose paper and
- 21 the lead sheath, among other components, and
- the 1970s oil-impregnated cellulose paper
- with the lead sheath, among other components;
- 24 is that correct?

is located where on the floor of Little Bay?

1 A. (Bowes) Yes, it does.

6

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19

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22

23

- Q. So, despite the cables having been analyzed
 for their constituents and their condition,
 am I correct in reading this report, that
 Eversource isn't certain exactly which cable
- 7 A. (Bowes) So the diagram you have up on the screen right now indicates what we know of the cable locations.
- Q. Right. But am I correct that you have not been able to match up which cable, for example, has the higher lead levels, which cable has which constituents?
- 14 A. (Bowes) I would say that's probably accurate
 15 in some cases, yes.
 - Q. So on Page 2, the final paragraph of Page 2 states, "While OSI's survey identified the geospatial presence of the existing cables, there is some uncertainty as to the cable type at each location. Based on diver reconnaissance, the southernmost cable, which requires portions to be removed, is believed to be the 1940s cable." Did I read that correctly?

- 1 A. (Bowes) Yes, you did.
- Q. A little further up on that page it states,
- 3 "Eversource reviewed sediment data collected
- from the two proposed cable clearance areas,
- 5 Clearance Area 1 and Clearance Area 2. The
- 6 sediment data was generated in... 2016 and
- 7 ...2017 during the sediment investigation
- 8 performed by Normandeau Associates. Based on
- 9 the sediment testing results, total lead
- 10 concentrations in the shallow sediments in
- each of the clearance areas was less than the
- 12 Effect Range Low concentrations, indicating
- 13 that the presence of the cables is not
- 14 exacerbating contaminant conditions." Did I
- read that correctly?
- 16 A. (Bowes) Yes, you did.
- 17 Q. To be clear, the sediment sampling that was
- 18 done in Clearance Area 1 wasn't done to
- determine whether lead might be leaching into
- 20 the sediments from these out-of-service
- cables, was it?
- 22 A. (Bowes) I would say not directly. My
- understanding, the sampling was done to
- understand what was in the sediment for the

- jet plow analysis. There may have been also
 desire to understand the integrity of the
 cables and if their deterioration was leading
 to a sediment issue. Probably a better
 question for the environmental panel.
- Q. Okay. But I'll ask you the question.

 Sediments directly under the portions of the cable to be removed were not sampled, were they?
- 10 A. (Bowes) I don't believe so. But the
 11 locations are identified on the map that you
 12 have in front of us.
- And would you agree that, even if sediments 13 Q. 14 were not found -- so, even if you had 15 conducted an analysis to specifically 16 determine whether these out-of-service lines 17 were contributing lead in sediments, wouldn't you agree that sediments -- that lead could 18 19 also be leaching into the water column, not 20 ending up in the sediments?
 - A. (Bowes) Probably a better question for the environmental panel.

22

Q. But the plan is to leave these cables alone, essentially, in perpetuity; is that correct?

- A. (Bowes) We will comply with all the New
 Hampshire DES requirements. If at some time
 in the future they ask us to remove them, we
 will.
- Q. But right now there is no plan to remove
 these other cables, just the cable needed to
 construct the proposed new crossing.
- 8 A. (Bowes) And that is the guidance we have from 9 the New Hampshire DES, yes.
- Q. So this report -- and again we're in 10 11 Exhibit 106, Appendix D -- includes a remedial -- an analysis of remedial debris 12 recovery. Who can best speak to that? 13 14 this is at page -- the remedial debris topic 15 is specifically on Page 6 of -- this is what the page looks like, if it helps you locate 16 17 it more quickly.
- A. (Bowes) So I would say if there are questions
 about the environmental aspects, the
 environmental panel would be best. If there
 are questions about how the removal would
 take place, we're probably the best panel for
 that.
 - Q. Mr. Bowes, I believe this is probably best

- directed to you. Shifting gears away from
 the existing cables, it's been suggested that
 if this project is not built, that rolling
 brown-outs may need to occur. That hasn't
 happened yet, has it?
 - A. (Bowes) It has not.

- Q. Has Eversource conducted any analysis of the likelihood of rolling brown-outs if this project is not built, taking into account the fact that you've got a lot of the Seacoast Solution constructed already?
- A. (Bowes) So I don't believe we do that for any of the Projects in the ISO-New England Regional System Plan. We go through the process with them, become the backstop to building the Projects and then complete them in a timely manner, trying to meet the year of need. In this situation, year of need has long since passed, so we would continue to operate the system and take whatever actions are necessary, including emergency actions. But we don't do an analysis of what might occur, other than at certain levels we could pre-stage certain activities to occur. For

```
example, in a long heat wave, if we exceed
1
         certain load levels, we might pre-position or
2
         pre-configure the system to make that load
3
         shedding as seamless as possible.
4
5
         that doesn't sound necessarily like a good
         way of articulating it. But to try to
6
7
         minimize the fewest number of customers for
         the shortest amount of time that would be
8
         impacted by a disconnection of power.
9
         Are you aware of an analysis by ISO-New
10
    Q.
11
         England or any other entity of the likelihood
         of brown-outs or rolling brown-outs if this
12
         project is not constructed?
13
14
         (Bowes) I am not.
    Α.
15
         Thank you.
    Q.
16
                                I have no further
                    MR. IRWIN:
17
         questions.
                    PRESIDING OFFICER WEATHERSBY:
18
                                                    I
         think we'll take a ten-minute break and come
19
20
         back at 3:15, and we will resume with the
21
         Durham Residents.
                             Thank you.
22
                (Recess was taken at 3:06 p.m.
23
                and the hearing resumed at 3:20 p.m.)
                    PRESIDING OFFICER WEATHERSBY:
                                                    I just
24
```

wanted to mention that from time to time a
Committee member may need to leave before the
proceedings are finished for the day, or
perhaps there's a time that a member is sick or
cannot come for some reason. That doesn't mean
that we need to suspend our business. As long
as we have a quorum of five members, we will
carry on as scheduled. And any member who
needs to leave or is absent does review the
transcripts to catch up on anything. So that
would be the case this afternoon. We will have
at least one member who'll need to leave before
the end of the day, before we conclude today.

So, that said, Ms. Brown, you may question the witnesses.

CROSS-EXAMINATION

17 BY MS. BROWN:

Q. Good afternoon, Panel. My name is Marcia
Brown. I am representing Donna Heald, but I
am also the spokesperson for the Durham
Residents. And I would like to follow up on
an issue about bridge clearance that Attorney
Irwin had asked about. So, Mr. Dodeman, I'd
like to follow up with you. And I'm going to

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put up -- okay.

So, on Exhibit 6, Page 19 of 31, Lines

12 and 13, you had stated that the barge was

limited -- or the clearance of the bridge

limited the barge, and therefore the barge

limited aspects of the Project. And in your

testimony, you had stated that the bridge

clearance was 30 feet. Do you recall that?

- A. (Dodeman) I'm not sure that I actually stated the bridge height. I'm relying on the engineers and what was told to me. So I kept my description general in saying that the bridge clearance limited the height of the barge.
- Q. Okay. I'm going to cut to the chase. Do you recall that 30 -- actually, did you just tell me that you are aware of the use of 30 feet as the bridge clearance in the design?
- A. (Dodeman) I honestly can't recall the exact height that I was referring to. You say Exhibit 6. I have to get Exhibit 6 in front of me. Do we have Exhibit 6?

23 (Discussion among panel members)

Q. So you have Exhibit 6 in front of you. On

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Page 19 of 31, Line 12, at the end it says,
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- 2 "which only allows for approximately 30-foot
- 3 clearance. This clearance limits the size
- and type of the barge." Do you see that?
- 5 You can look at it or I can just --
- 6 MR. IACOPINO: It's the Jiottis
- 7 testimony.
- 8 A. (Dodeman) Yeah, it's Jim Jiottis.
- 9 BY MS. BROWN:
- 10 Q. Yeah, my mistake in saying it was your filed
- 11 testimony.
- 12 A. (Bowes) It's actually the testimony that I've
- adopted. What page was that?
- 14 Q. Page 19 of 31. It's the physical document
- 15 Page 19, and it's the last two words on
- Line 12, "30-foot." Do you see that?
- 17 A. (Bowes) Yes, I do.
- 18 Q. Okay. And I apologize to your counsel for
- I could not find the NOAA chart, but I found
- 21 a Great Bay Marine, which is in Great Bay --
- or Little Bay, if you're familiar with that.
- 23 And they have the bridge clearance cited on
- their web site. And if you, as an offer of

proof, would take --

- A. (Dodeman) No, I understand the 52-foot listed
 bridge clearance, and I could -- I have the
 NOAA charts on my computer on a chart
 program.
 - Q. So the question is: The reference in the testimony is 30 feet. And we know that the mean low tide allows a 52 clearance. What does that change in clearance do to your calculation of or use of or selection of the barge?
 - A. (Dodeman) When you're talking about these big submarine cables that are stored in some sort of cylindrical object like a cable pan, which is very typical, or a cable tank that's installed on a barge, due to the torque associated with moving that cable in and out of that pan with a tensioning device or a linear cable engine, that cable will tend to twist and create all sorts of kinks. There's no way to get it out of the pan without using a very high gantry. In order to avoid that, we opted to go with a reel, a powered reel stand, which does not generate torque. You

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can pull the cable directly off of the reel
and then off of an overboard chute. The reel
is much lower in stature -- and forgive me
for not knowing the exact height -- than a
cable gantry. A cable gantry is typically in
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Q. So, in effect, you are pulling the cable off
of the barge horizontally to the water
surface and not up; is that correct?

the realm of 70-feet plus, maybe more.

10 A. (Dodeman) Correct.

- Q. So the height of the bridge clearance then becomes a non-issue; is that correct?
- A. (Dodeman) That's correct. By using the reel,
 the height of the bridge becomes -- it's not
 a non-issue because we have to watch the
 height of the reel as well and the powered
 reel stand. But it becomes effectively a
 non-issue.
- 19 Q. Thank you for that clarification.
- 20 A. (Dodeman) Sure.
- 21 (Pause in proceedings)
- Q. Sorry for that delay. I'd like to talk about the construction time period. And I believe this may be to David Plante.

```
What I have pulled up is Applicant's
1
         Exhibit 1. I am on Page 51, for the record.
2
         And in this section it talks about the
3
         sequencing of the construction activities.
4
5
         And can you provide -- actually, Mr. Plante,
         there's a proposed schedule associated with
6
7
         the -- my mistake. I thought I had this all
8
         organized. I'm going to go back to Page 51,
         for the record.
9
              So, Mr. Plante, can you walk through
10
11
         these sequences and give us an estimated time
         in perhaps months of how long these sequences
12
         will take?
13
         (Plante) Certainly I could do that. I mean,
14
    Α.
15
         concurrently --
16
                   MR. RICHARDSON: Excuse me. Point of
17
         order. What page are you on?
                   MS. BROWN: I am on electronic
18
         Page 51 of Exhibit 1. It is document Page 21.
19
20
                   MR. RICHARDSON: Thank you.
21
    BY MS. BROWN:
22
         Mr. Plante?
    Q.
23
         (Plante) Okay. So, generally what we would
         anticipate, were we to receive a Certificate
24
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of Site and Facility through this process on the current glide path towards a decision, which will be somewhere in the first quarter of next year, we would anticipate a construction period of approximately nine months, culminating in completion by the end of 2019, which obviously is out of sync with the matrix that you showed earlier with 2018.

So, initially the establishment of marshaling areas. You know, we have already secured a marshaling area for our material storage and laydown, so that's essentially behind us now. But upon commencement of construction-related activities, starting with surveying and flagging of boundaries, as Mr. Bowes alluded to, that's a fairly brief process. You know, in probably a couple of weeks we could complete all of the final layout of those areas and commence with establishment of accesses and begin our right-of-way vegetation management, which would probably take on the order of a couple of months in its entirety. However, it wouldn't need to be entirely completed before

we could begin ensuing activities in other parts of the corridor. Essentially a line construction project is a serial effort that engages a number of different resources with different crew complements and equipment types and tasks.

So, as I mentioned, vegetation activities would be first. And then we would install erosion and sediment controls as soon as they're done in the various areas, followed by construction access roads and the work pads. The next item there, relocation of existing utility infrastructure, this is an activity that can go on in parallel with a lot of the other activities and will, you know, likely take place earlier on in the Project, but may not complete until later in the Project.

In terms of major construction
activities, the installation of foundations
is the next -- or the first, true
construction activity. And we have
foundations that are both concrete
foundations for the engineered steel

structures that I mentioned yesterday, and we also have a type of foundation that we use for our direct embedded structures, which involves -- it's a similar activity of drilling a hole. We put a sealed culvert vertically into that hole to stabilize it and allow for a stable foundation for the direct embedded structures. So, in one way or another, every structure on the transmission line will receive some type of foundation-type activity.

materials to each structure location and assemble each structure. They come in multiple pieces, so we would assemble it at the location and begin the erection process, which again involves a different crew complement and different equipment. And that crew would move along the line and complete structure erection. The next crew to arrive would be a conductor installation crew, which, again, different equipment, different crew expertise. And they would begin by installing -- pulling ropes to then attach

the conductors and pull the conductors in.

The conductors are then attached to the structures and the insulators to complete the actual electrical components of the line.

Concurrently, to some degree, with the overhead line construction is the submarine and underground construction because they, again, involve totally different crew complements and construction methods. The underground cable has certain time-of-year restrictions, particularly with respect to the UNH Durham/Main Street crossing, trying to complete that all during the period between commencement and moving day of the following academic year.

The submarine cable has preparation activities that will begin as soon as early summer, but the actual construction of the cable installation is planned for the fall time frame.

Q. Okay. Thank you. I understand things can be concurrent. If I could just ask you to break this down a little bit more. With respect to the work pads, how quickly can those be

established on a property?

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- (Plante) The establishment of the work pads 2 is a variable that depends upon what the 3 exact conditions are at each location. 4 could be locations that really don't require 5 any physical work to establish anything. 6 Those areas would be dry upland areas that 7 8 are reasonably flat and unimpeded by boulders or whatever so that our equipment could 9 position itself safely and perform the work. 10 11 There are other areas that may have some slope to them that would require minor 12 grading or installation of timber mats to 13 14 create a safe working area for the crews. 15 So, depending on the degree of which is 16 required, it will dictate the amount of time 17 that it takes. But generally it's not a particularly long duration to establish those 18 19 in any one location.
 - Q. Okay. I'm going to go to a specific example.

 I thank you for the general response.

So what I am pulling up for you to take a look at is Exhibit 148. These are the 2017 environmental maps. And I have electronic

- Page 19, although it is document Page 18.
- 2 And I'm going to blow it up a little bit more
- 3 so you can see it better. Now what I am
- 4 showing you is my client's property, Heald
- 5 McCosker. Do you see that in the center?
- 6 A. (Plante) Yes.
- 7 O. There are -- and correct me if I'm wrong --
- 8 two work pads that are expected on this
- 9 property?
- 10 A. (Plante) Yes.
- 11 Q. From the road, and building the access road,
- can you walk us through how long it's going
- 13 to take to build the road to get to the work
- pad; how long the work pad is going to take;
- how long the next traverse is going to take,
- 16 noting that there are wetlands? If you could
- 17 walk us through very briefly?
- 18 A. (Plante) Sure. Obviously, the first thing to
- do is establish access off of the Longmarsh
- 20 Road. And the first activity there is the
- 21 first small wetland that is shown as being
- crossed with timber mats. So the contractor
- would place a series of timber mats across
- that wet area to provide stable construction

passage. And then a short distance ahead is the first work pad. And this does demonstrate a little bit of topographical change around that structure. So we would need to establish a little bit more of a level work surface there, and that would probably take on the order of a day or maybe two days to complete that.

And then moving on to the right is a little bit longer wetland crossing which would require, again, timber mats to provide a stable surface for the equipment to pass.

And that would probably be another day, plus or minus, to install those mats.

And then the final work pad also has some topographical change, so it'd probably be a day or so of either light grading or installation of mats to provide a stable surface. So, all in all, this would probably be a week or less of access preparation.

Q. Now, noting that you had said that things could be sequenced in the broader project, with respect to a single parcel like

Ms. Heald's, after the access road and the

- work pads are constructed, will there be a break before other equipment comes in?
- (Plante) I would say yes, it's likely that 3 Α. there would be some slack time between the 4 completion of the access and the arrival of 5 the next work crew, which would be the 6 7 foundation drilling crew. It's possible that 8 it could occur directly afterwards. also possible it could be a period of days or 9 weeks in between. 10
 - Q. Okay. With that variation in when Eversource personnel will be on the property, how will Ms. Heald be notified of the comings and goings? Is this a daily notification?
 - A. (Plante) It's possible that we could have a daily notification process, if that's what

 Ms. Heald would prefer. We do have an open and ongoing relationship between our outreach team and Ms. Heald.
 - Q. Thank you.

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And this is a general question. I don't know necessarily, Mr. Plante, if this is something that you can respond to. In Ms. Heald's testimony, she had asked for an

- inventory of her plant stock within the
 right-of-way --
- 3 A. (Plante) Correct. She has and --
- 4 0. -- be conducted.

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5 A. (Plante) -- and we have offered.

plant inventory?

- I didn't mean to interrupt your response. 6 Q. 7 the question is: With an inventory that has 8 to be -- in order to be accurate, which would need to be in the growing season immediately 9 prior to the construction, and knowing that 10 11 you don't know when you're going to start construction yet, do you have any -- does the 12 panel have any comment on how to fit in a 13
 - A. (Plante) Well, I would envision that that is something that could take place at the very beginning of the growing season. This particular portion of the Project is not necessarily something that has to take place at the very beginning of our construction.

 So we do have, I would say, sufficient flexibility to fit in an inventory time period at the beginning of the growing

season, prior to the commencement of

- construction activities in this area of the Project.
 - Q. Thank you.

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- I want to ask a few questions about the
 marshaling and laydown yards. In the
 Application, it seemed that Eversource needed
 flexibility on determining when or how many
 marshaling and laydown yards there would be.
 Is that an accurate characterization?
- 10 A. (Plante) Yes.
- Q. So could there be any laydown or marshaling yards placed within the Longmarsh Road area as you're seeing on this map?
- A. (Plante) No, we have no intention of seeking
 any additional project footprint in this area
 of the Project.
 - Q. I'm going to follow up on an earlier question that you were asked and that you responded to regarding the type of equipment that would be in each stage. So, with respect to creating the access road and the work pads, what size equipment is going to be coming in on the property?
 - A. (Plante) I guess size is kind of a -- it's a

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tough question. But it's construction
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         equipment. So the equipment that's used to,
         for instance, move timber mats is heavy
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         construction equipment. You can maybe liken
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         it to a skidder. They're typically
         rubber-tired and they have an articulated
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7
               And they'll move the mats up and down
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         the corridor and place them. Occasionally
         there'll be a small bulldozer if necessary,
9
         occasionally dump trucks, either rubber-tired
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11
         or tracked to move any gravels, and a small
12
         dozer to spread those gravels.
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Q. And with respect to installation of the poles and wires, what size equipment is needed for that?

A. (Plante) Okay. So the first step would be to drill the holes for poles. And that's pretty significant equipment. It's a relatively large, track-mounted drill. It will have to position itself on both work pads, drill the hole, and then it moves along. And then replace the casing in the hole with an excavator and then backfill around that. So that's, again, relatively big equipment.

The next stage would be to erect the poles. Actually, you have to place them in the area of the work pad first; assemble the structure, second. And that's all kind of more hand work. It's light equipment. And then erecting the pole would be a light-duty crane. These structures are not particularly heavy. They're just unwieldy. So, light-duty, most likely rubber-mounted crane, hydraulic crane, would be used to erect poles.

Beyond that, the effort would be to install conductors, and that's largely an aerial effort in this area because we don't have a wire setup location in this area. So there will be no wire installation equipment on this part of the Project. So it's a matter of pulling the rope in. And we would probably pull initial rope in with a helicopter. That goes in very quickly. And then the wire gets pulled back with the rope. So those are activities that are, I would say, zero footprint on the property.

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And then the final effort would be to

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actually fasten the conductor to the insulator assemblies on the structures. that may or may not be done using helicopter assistance. It's possible to place linemen on each structure from the helicopter, and they can do that activity without approaching the structures from the ground. Or they could do it with a bucket truck, which would set up on the work pad that's defined in the plan set here and raise the linemen up to each conductor location. They would fasten the conductor to the insulators and come back to the ground, and the bucket truck moves on to the next location. At that point, we can begin removal of the work pads and accesses.

- Q. Now, you mentioned rubber-tired vehicles.

 Are any of these going to be tracked?
- A. (Plante) Yes. The hydraulic excavators that are used for setting the casings, those would be track equipment. The drill rig that's used to drill the hole for the casings is tracked. The rubber-tired equipment is generally the equipment that's used to establish the construction access and move

- 1 mats. So it would be moving mats along
- 2 upland areas, creating wetland crossings
- 3 using these mats, and then using those mats
- 4 to get to the next location.
- 5 Q. I assume it is not --
- 6 A. (Dodeman) Mr. Bowes has something he'd like
- 7 to add.
- 8 Q. Yeah.
- 9 A. (Bowes) There is one other activity that you
- 10 have not talked about. It's to the right of
- the screen that you're showing right now. I
- noticed, looking over, still on the same
- page, it's just -- yeah, that's it, right
- 14 there. So if you notice to the right of the
- second work pad, there's another wetland
- 16 area, a very large one. And there's --
- 17 Q. Is that where my cursor is now?
- 18 A. (Bowes) Yes. Exactly. So there's timber
- mats that would be added there. And that
- other, looks like a triangle, is the existing
- distribution pole. So that would also have
- 22 to be removed as part of this. So there is
- another area of influence across this piece
- of property. It's really for access to the

- next property. And there's a single pole removal there.
 - Q. Appreciate that completeness.

I had a question about ruts. I understand that the intent is for these access roads to allow equipment to access the property so that you won't create wet ruts on other parts. If ruts are created on the property, will Eversource be restoring property topography back to its original condition?

A. (Plante) We could certainly work with the property owner to restore the accessways through the property to their pre-existing condition. Our intent is not to create ruts in the first place, hence the use of the mates. However, it's obvious that at certain times the weather may make some areas that are not necessarily wetlands, but could make them wet. And obviously it's a little easier to create ruts in upland areas that have been recently rained on, for instance. So we would be happy to restore that to pre-existing conditions.

- 1 Q. Okay. I'd like to revisit an issue with Ms.
 2 Heald's property that I think Eversource is
 3 aware of, of past ruts that have created
 4 wetness, lasting wetness in the area. And I
 5 believe Eversource's position is that they
 6 cannot fill those ruts. Didn't know if you
 7 had any explanation to why.
- 8 A. (Plante) I'm not particularly familiar with
 9 why we can't fill them, unless they're
 10 actually in jurisdictional wetland areas
 11 where we would need a permit to have them
 12 filled. So that may be the explanation
 13 there. I'm not certain.
- Q. Okay. I believe from your -- the

 Application, the work pads are estimated to
 be 100 feet by 100 feet. But can that
 change?

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A. (Plante) Actually, there are two different sizes of work pads. There's a 100 feet by a 100 feet I believe is what we elected to use for foundation structures, concrete foundations. And the direct embedded structures I believe is 60 by 80. That might be what's shown here, Structure 90. I think

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1 that's a 60 by 80.
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- Q. So, Structure 90 you said is likely a 60 by 80, although it shows --
- A. (Plante) Yeah, that's what that looks like to me. Ninety-one looks a little bit bigger.
- 6 Q. Oh, okay. Let me return to another question.

What is the difference between when you have the two numbers -- I could go to the legend on how these poles are.

- 10 A. (Plante) So when we submitted our Application 11 in 2016, we had a design that was provided. 12 And those numbers are the top left in this
- 13 case.
- Q. I have just pulled the legend where it says --
- 16 A. (Plante) The higher numbers are the original
 17 numbers. The lower numbers are the current
 18 construction numbers. We've eliminated some
 19 structures over the course of design
- 20 modifications since 2016. And there is a 21 chart in the beginning of Appendix 2B in the 22 environmental maps. Wait a second. That's
- not it. It's the engineering maps. Sorry.
- 5B engineering design drawings. And there's

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a matrix there that compares the construction
number, which is our current design, with the
permitting number, which would be the
original submittal structure numbering.
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- 5 Q. Thank you for that clarification.
- So, again, looking at Pole No. 90, that
 looks like it's going to be 100 by 100? I'm
 sorry, 91.
- 9 A. (Plante) Yes. Looks like it's approximately
 10 that, about 100 wide. And it looks to be
 11 about 80 in the other dimension.
- Q. Okay. Now, are there standard design specifications for these work pads?

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A. (Plante) There's kind of a standard that
we've adopted -- or not adopted, but tried to
use. And each structure location, however,
has its peculiarities. So we have invited
our potential constructors to look at each of
these and help us ensure that we're defining
the work pads sufficiently to allow
construction to complete. So, some of them
are a little bit different than the standards
that might have been indicated earlier in the
filling.

- 1 Q. So it's site-specific?
- 2 A. (Plante) Yes.

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- Q. And is it that like 6 inches of gravel will be brought in for the work pads?
- (Plante) As I mentioned earlier, it's not 5 Α. necessary that we dictate a 6-inch gravel 6 base for 100 feet by 100 feet in order to 7 create a work pad. Our desire is to keep the 8 civil construction, for lack of a better 9 term, to a minimum just so that we can allow 10 11 a safe work area. So, as I mentioned 12 earlier, some areas will require almost no effort to create a work pad, where other 13 areas will require grading, gravels or more 14 15 mating to create a safe work area.
 - Q. Now, the work pads on Ms. Heald's property, she was given an estimate of a year and a half to two years of disturbance and existence of construction activity on the property. And I know you gave a nine-month construction time frame. How long can she expect these access roads and work pads to be on this property?
 - A. (Plante) Again, depending on how soon we get

it in there and get the construction started 1 will determine the total duration. 2 mentioned, we're expecting to have 3 construction done by the end of 2019, if we 4 receive approval to begin construction 5 sometime by the end of the first quarter of 6 next year. So that's a nine-month line 7 construction duration. That doesn't include 8 the time it will take to complete all the 9 restorations. Obviously we can't complete 10 11 all of that until all of the line construction is done. So, call it 12 "reclamation" for lack of a better term, will 13 14 commence as soon as we complete conductor 15 insulation in various areas of the Project. 16 But it's not likely that we'll complete all 17 our conductor installation until very late in the year. So some will carry over into 18 19 2020 -- or the following year, whichever year 20 it may be. And depending on where in the 21 sequence of wire installation this particular 22 area falls will determine how quickly the 23 reclamation begins. Thanks for that explanation. 24 Q.

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- 1 I'd like to pull up and have you comment
 2 on Durham Historic Association Exhibit 4,
 3 electronic Page 12. Do you see this?
 - A. (Plante) I do.

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- 5 Q. Is this a typical access road?
 - (Plante) This is not typical of the type of Α. construction that we're proposing here, but this is typical of what's been necessary in order to complete another type of project that's been ongoing in our system for a little over a year now. This is all 345kV line construction work, and it's being done under "live line" conditions. So, while all this construction is taking place, we are not able to take the line out of service. that requires the use of very large, very specified equipment because it needs to actually connect to the energized conductors and move them outside of the footprint of the structure in order to allow the actual line work to take place. So these structures are quite tall, quite heavy. So the equipment is quite large, and that's why these roads have been constructed in the fashion that they

1 have been.

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- Q. So with respect to this example of an access road, is it fair to say that this is overbuilt?
- (Plante) Overbuilt for what was required to 5 Α. complete the construction activities that 6 7 took place in this area. In this area, there's also a significant side hill where 8 the topography drops off quite a bit from 9 10 right to left in this case. So it was 11 necessary to cut in a little bit on the right and fill in a little bit on the left in order 12 to create a level accessway. 13
- Q. I should have asked that question a little more targeted.

With this example here, can you give us a sense of what the typical -- well, what Ms. Heald would see on her property, to use her as an example, and what these access roads are going to look like with vegetation clearing, et cetera?

A. (Plante) What I would envision in this particular area, because in general there's not a lot of topography in this area, so I

- wouldn't envision us building what amounts to several hundred feet of gravel road. There may be some gravel road, but I would envision very little of that.
- 5 Q. Fair enough. Thank you.

Now I'm going to go back to the legend for the environmental maps. It's Exhibit 148 I'm looking at, and in particular, the roads. And I don't know who should be responsive to this. But the question is -- there's a type of mark for not-maintained roads. And the question is: Is that for the Class VI roads?

- A. (Plante) I think you'd have to point me to a place where it's being used in order for you to help me answer that.
- Q. I'm looking for a definition in the legend of these maps under roads as "local," "not maintained," "private." I'm trying to get an understanding on when Eversource is using the term "not maintained" on these maps, what is it referring to.
- 22 A. (Plante) I can't answer that. I'd have to 23 get clarification from our mapping folks.
 - Q. So should I ask the environmental folks this

- instead of the construction panel? Mr.
- 2 Boughs [sic]?
- 3 A. (Bowes) We could probably read it in the next time we appear.
- 5 Q. Fine. I'll move on.

Now, next question I have pertains to 6 the access road near the Frink and Miller 7 properties. And I am looking at Exhibit 148, 8 and I am at electronic Page 21. This is the 9 10 environmental map that shows the last segment 11 of the right-of-way going through Durham to Little Bay. And the question is: Where this 12 red dashed line represents an access road, 13 14 were there any other designations to depict 15 driveways?

- 16 A. (Plante) No.
- Q. Okay. So this access road is not to say it's not a driveway then -- or I'm sorry. This designation of the red dash is not to be interpreted that it is not a driveway?
- 21 A. (Plante) That's correct.
- 22 Q. Okay. Thank you.
- 23 So, to the extent that you can provide a 24 non-legal response to the question, in 2016,

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when this section of the driveway was
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         designated as an access road, what basis did
         Eversource have to know that it could use
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         this property -- or use this way, I guess?
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         (Bowes) There are two sources of documents
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    Α.
         for this access road: Historically, the
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         first being a 1949 easement agreement that
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         included access along this path; and the most
         recent was the purchase of the Getchell
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         property, which includes deeded access for
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         this access road.
         I believe you already answered or may have
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         answered the question, but I'll make sure.
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              There was a question on whether deeded
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         access included non-residential use.
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         (Bowes) Yesterday I did not have that
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         information, or the information I just gave
               The deeded access and the easement
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         access do not have restrictions.
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         Okay. This 1949 easement agreement giving
    Q.
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         you access over this driveway, is that in the
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         record already?
         (Bowes) I don't believe either document is in
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24
         the record.
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110 1 MS. BROWN: I'd like to make a record 2 request for those documents. Thank you. BY MS. BROWN: 3 With respect to this access road on this 4 0. electronic Page 21, does Eversource plan to 5 improve it for its construction vehicles? 6 7 (Plante) I would think that there would be Α. minimal improvements to this road. 8 fairly sound road at this time. However, we 9 10 would not want to diminish that, so we would 11 make sure that it was suitable for whatever vehicles would need to pass along it for our 12 project. It may require some minor 13 14 side-trimming of some trees to allow passage 15 of some vehicles. Beyond that, I would not 16 envision any major improvements are 17 necessary. Will Eversource be reaching out to the 18 Q. landowner that shares access along this 19 20 driveway to discuss the improvements? 21 Α. (Plante) Certainly. I believe we already 22 have. 23 Is it your understanding that's Intervenors Q.

Jeff and Vivian Miller?

- 1 A. (Plante) Yes.
- 2 Q. Question about restoration. If this access
- road is improved, what is Eversource's plans
- for returning it to its original condition?
- 5 And by "original condition," I mean
- 6 pre-project.
- 7 A. (Plante) I would imagine that the
- 8 improvements that get made would probably be
- desirable to the other parties who use it.
- 10 However, if there's some agreement among
- 11 those parties that it needs to be returned to
- the exact condition it's in today, then we
- could agree to do that.
- 14 Q. Okay. In light of the record request, this
- 15 question may be moot, but I'll ask it anyway.
- Is it Eversource's intent to continue
- 17 using this driveway as an access road to its
- 18 right-of-way?
- 19 A. (Plante) Yes. This is the primary access to
- 20 that location down by Little Bay.
- 21 Q. Mr. Plante, I have an additional question for
- you. In your testimony, Exhibit 8, on Page
- 4, and this is on Lines 14 and 15, you state
- that vegetation will be cleared the full

- width of the right-of-way. And I want to reconcile that with statements Eversource has made to Ms. Heald about retaining certain cedar trees for screening purposes within her right-of-way.
- 6 A. (Plante) Yes, I am aware of that discussion.
- 7 Q. Do you have a comment?
- 8 A. (Plante) I don't have a comment, other than
 9 if we've agreed to certain cedar trees to be
 10 retained, then that's what we will comply
 11 with.
- A. (Bowes) We have provided a draft landscaping plan to her and are awaiting comments.
- 14 Mr. Plante, I'll stick with you. On Q. 15 Appendix -- I'm sorry -- Applicant 16 Exhibit 148, on Page 19 of 32, it shows the 17 access road along the western edge of the right-of-way. Is it fair to say that this 18 19 access road will be using -- or will be 20 pretty much adjacent to that western limit of 21 the --
- 22 A. (Plante) I'm sorry. I'm not on the same page
 23 with you right now.
- Q. I'm looking at Exhibit 148 that I've got up

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It's the environmental maps. And I am
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         looking at Ms. Heald's property, which is on
         electronic Page 19, but the document is Map
3
         18.
4
         (Plante) Yup, I'm with you. Got you. Sorry.
5
    Α.
         So how close is this access road to the edge
6
    0.
7
         of the right-of-way?
8
    Α.
         (Plante) Based on the visual scale here, I
         would guess that it's probably 10 feet or so.
9
    0.
         Ten feet away from the edge?
10
         (Plante) Approximately, yes.
11
    Α.
         Okay. I'm going to show you another
12
    Q.
         document. It's Durham Residents Exhibit 1.
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14
         You may have seen this already. It is Ms.
15
         Heald's direct testimony, and it's a picture
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         of woods. But if I blow it up a little bit,
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         I want to point out this orange tape here.
         And I'm going to, because I think it's a
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         little distorted having it blown up... the
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         question is -- and I guess I'll step back and
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         make an offer of proof.
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              This orange tape was set by Eversource
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         employees during a site walkover. And Ms.
         Heald had asked for a visual depiction of
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where the edge of the right-of-way was, so
this is what we got. It's not surveyed, but
this is what we have. So that's the history
of this orange tape.
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So my question is: The right-of-way access road will be 10 feet, likely 10 feet beyond this orange tape?

- A. (Plante) Well, actually, I have seen this picture before, but I never saw the orange tape in it. I'm not really sure where this picture vantage point is, so I'm not sure what I'm looking at.
- Q. I can make an offer of proof that this was taken from the corner of Ms. Heald's house.

 That's why I'll back that picture out.
- 16 A. (Plante) So the picture is taken from off the right-of-way looking toward the right-of-way?
- Q. Oh, I understand. This is looking toward the right-of-way. This is at the corner of Ms. Heald's house looking east toward the right-of-way. Let me pull up another document here.
- 23 A. (Plante) Okay. I'm with you.
- Q. So I'm looking at the engineering plans,

- Exhibit 149, Page 52 of 55. You will see her residence.
- 3 A. (Plante) Yes.
- Q. This picture is taken from the vantage point from that residence looking directly toward the right-of-way. And so the question is:

 How close visually is the right-of-way access road going to be?
- 9 A. (Plante) I would say that the edge of the
 10 access could be as close as right on the edge
 11 of the easement, though I would envision that
 12 it would be probably at least 5 feet from the
 13 edge and extend another, you know, 12 or
 14 feet further in.
- Q. Sorry. What was the last part of that sentence?
- A. (Plante) So the near edge would likely be
 5-ish feet from the edge of the right-of-way,
 and the total width would extend another 12
 or 14 feet further into the corridor.
- Q. Are you aware that this orange tape is about 45 to 50 feet away from her house?
- 23 A. (Bowes) I just scaled it off the map, and
 24 it's actually 60 feet to the closest corner,

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edge of the right-of-way.
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- 2 Q. Thank you. So it's within 100 feet then.
- 3 A. (Plante) Yes.
- 4 Q. Mr. Plante, on Page 4 of your testimony, and
- this is April 2016 -- it's Exhibit 8, Page 4,
- 6 Lines 16 through 18 -- you state that
- 7 additional vegetation may be removed along
- 8 the corridor. Do you see that?
- 9 A. (Plante) Could you recite the lines, please.
- 10 Q. Page --
- 11 A. (Plante) I got the page. I just --
- 12 Q. Line 16 through 18.
- 13 A. (Plante) Thank you.
- 14 (Witness reviews document.)
- 15 A. (Plante) Okay.
- 16 Q. What does "along the corridor" mean in
- 17 particular? Will trees beyond the
- 18 right-of-way toward Ms. Heald's house need to
- 19 be cut?
- 20 A. (Plante) In general, the answer to that is
- 21 no. The exceptions occur only when there is
- a tree that's deemed an immediate hazard to
- the electric system. And that never occurs
- 24 without a direct conversation with the

- property owner. So, for instance, if there 1 2 was, you know, a 100-foot-tall dead pine tree that was 5 feet outside the corridor, our 3 arborist would likely deem that to be a 4 hazard to the electric system and would then 5 seek permission from the property owner to 6 7 remove that tree.
 - Q. Thank you. What is a typical construction day going to look like, in terms of start times and end times?

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- (Plante) So, for the Town of Durham, we have Α. tentatively agreed through an MOU of 7 a.m. through 6 p.m., with some exceptions as have been noted earlier. So the crews would show up probably at their show-up area, wherever that is, a little prior to seven and then depart around seven to get to their work sites. So, work would be commencing shortly after seven and could go as late as six.
 - Looking back at the environmental map on 0. Exhibit 148, Page 19, are you aware that halfway through the right-of-way on Longmarsh Road it transitions to a Class VI road? (Plante) Halfway through where? Between

- 1 the --
- 2 Q. At the intersection of the right-of-way
- 3 easement that Eversource has and Longmarsh
- 4 Road on this Page 19 of 32, are you aware or
- is Eversource aware that the road is a Class
- 6 VI road?
- 7 A. (Plante) I am not personally aware, but I'm
- fairly certain that our design team is aware.
- 9 Q. That your what?
- 10 A. (Plante) The design team and the
- 11 environmental team.
- 12 Q. And does a Class V or Class VI road change
- how you set up a work pad?
- 14 A. (Plante) No. We don't have any work pads
- that are in the road.
- 16 Q. That's my next question. With respect to --
- 17 let me blow this up. And maybe it's just a
- 18 function of design. The work pad associated
- with pole F107-89 technically shows that its
- 20 boundary is going to be in Longmarsh Road.
- 21 Do you see that?
- 22 A. (Plante) I do see that.
- 23 Q. And so can you clarify whether it is
- 24 anticipated that this work pad will impinge

- on the road or not?
- A. (Plante) My estimation is that we would probably shift this work pad to the left to avoid any impacts at all to the roadway.
- 5 Q. This looks like it's maybe larger than the 60 by 80? Would you agree with that?
- 7 A. (Plante) I don't think so. I think it looks
 8 to be 60 by 80 to me.
- 9 Q. Now, do you see the stone walls on either
 10 side --
- 11 A. (Plante) I do.
- 12 Q. -- of this road? And so would the stone wall
 13 inside the work pad on the north side of
- 14 Longmarsh Road -- what is Eversource's
- efforts to protect that?
- 16 A. (Plante) So with these situations, and there
- are quite a few of them along the course of
- the Project, we will either be avoiding the
- walls altogether or bridging them with timber
- 20 mats. So we wouldn't be dismantling the
- 21 walls or otherwise damaging them with our
- 22 construction. There are a couple exceptions
- that were mentioned earlier, and we have
- secured property owner permissions to make

- 1 those modifications.
- 2 Q. All right.

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- 3 A. (Plante) And these walls are not on that list.
- 5 Q. Okay. Thank you.
- Are you aware on Ms. Heald's property
 there is a restriction to not cut trees
 within a 100 feet of the road?
- 9 A. (Plante) I am not aware of that. Could you provide a reference?
 - Q. So I'm pulling up Durham Residents Exhibit 2,
 Page 10 of 11. And this is Donna Heald's
 supplemental testimony. And obviously it
 says "unofficial copy." This is a screen
 capture of a deed -- the registry of deeds
 plan. And I will blow up this section of the
 road while we're here. And it shows a Class
 V and Class VI designation. But then well,
 perhaps I will need to refile this exhibit
 with a clearer copy.

But assuming in the conditions of approval on this subdivision, if there is a restriction to not cut trees within a 100 feet of Longmarsh Road, how does Eversource

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- either address, accommodate, avoid?
- 2 A. (Plante) I don't believe that Eversource or
- its predecessors are a party to this
- 4 subdivision, so I don't believe that it
- 5 supercedes our easement rights.
- 6 Q. Are you aware of whether historic -- roads
- 7 that are designated as historic roads,
- 8 historic scenic roads, have a vegetation
- 9 cutting prohibition?
- 10 A. (Bowes) Yes, and I spoke to that this morning
- with the lawyer for Durham and indicated, for
- our distribution projects, we normally go
- 13 through the scenic road process. For the
- transmission rights-of-way, and for this
- project, we're seeking the SEC's approval to
- do this trimming, as well as the installation
- 17 of the line. And that is covered under I
- 18 think three different statutes in the state
- of New Hampshire --
- 20 Q. Thank you.
- 21 A. (Bowes) -- that was discussed this morning.
- 22 O. I think I talked over you.
- MS. BROWN: Did the stenographer get
- 24 that?

- 1 STENOGRAPHER: Yes.
- 2 BY MS. BROWN:
- Q. Will there be blasting needed for Ms. Heald's
- 4 property, for the construction project?
- 5 A. (Plante) No, we do not anticipate any
- 6 blasting on Ms. Heald's property.
- 7 Q. I am now showing you Exhibit 149, Page 52.
- It's an engineering plan that includes Ms.
- 9 Heald's property. And it now shows a
- 10 residence on her property and a water line;
- is that correct?
- 12 A. (Plante) Yes.
- 13 Q. And are you aware that prior plans did not
- show the water line or the residence?
- 15 A. (Plante) Yes, I am vaguely aware that those
- did not show up on prior plans.
- 17 Q. This engineering plan, I believe, if you can
- 18 speak to this, I believe it shows that Ms.
- 19 Heald's correct property boundary is along
- this edge of the right-of-way. I ask for
- 21 your agreement on that only because at one
- 22 point it was shown as cutting into the
- 23 right-of-way.
- 24 A. (Plante) Yeah, I guess I can't disagree that

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it's shown as being along the edge of the
right-of-way. I am aware that in previous
drawings there was a discrepancy between the
property line location.
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- Q. Thank you. Because it looks like with these maps that discrepancy has been corrected.

 Okay.
 - Mr. Boughs [sic] -- I'm sorry. Bowes, is it? Relating to your testimony in July of 2018, and that's Exhibit 140 -- my mistake. I don't have the right page reference here. There's only ten pages here, and my reference is Page 16. That doesn't make sense.

Do you recall making a statement that the poles along -- or a pole along Longmarsh Road was relocated to reduce visibility from the road?

- A. (Bowes) I do believe one was relocated along that general area.
- 20 Q. Thank you.

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21 What is the height of this proposed pole 22 that was relocated? Let me just blow this up 23 to get the pole number. It is F107-89.

A. (Bowes) Just a minute. We'll find out.

- Q. Didn't know if it was noted on this, on the engineering plans, perhaps.
- A. (Bowes) So, just to be clear, since the

 numbers are sequential and they are -
 there's two 89s on the diagram. Which set of

 numbers are you -- that pole? Okay.

7 (Witness reviews document.)

- 8 A. (Bowes) That structure is 88-1/2 feet tall.
- 9 Q. That's the proposed structure; right?
 10 Correct?
- 11 A. (Bowes) The final design as it stands today,
 12 yes.
- Q. Now I want to show you a visual of that pole, and I believe it's on Durham Historic
- Association Exhibit 4. And I'm at Page 6.
- And this is the pole, is it correct, that we
- are talking about Eversource relocated to
- 18 reduce the visibility of it?
- A. (Plante) We thought you were referring to a pole that was relocated in our proposed
- design, not a pole that was relocated on the
- existing distribution line. So we're
- confused.
- Q. Looking back at Exhibit 148, Page 19, Pole

- F107-89, this white triangle would be the existing pole that has been moved back; correct?
- A. (Bowes) So the existing white triangle is a
 distribution circuit that's on the
 right-of-way today. The yellow -- yes, that
 structure.
- Q. So it's not this pole shown on Page 6 ofDurham Historic Association Exhibit 4 then?
- 10 A. (Bowes) That is the white triangle we just
 11 had on the previous map.
- 12 Q. It is?

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- 13 A. (Bowes) Yes.
- 14 Q. Okay. So this is visually the pole that you
 15 had stated the proposed location has been
 16 pushed back away from the road to reduce
 17 visibility; is that correct?
 - A. (Plante) I'm still confused. Are you referring to our proposed design where it replaces -- that white triangle is moved back from the road to reduce visibility, or are you talking about some effort that has been undertaken recently to physically move that pole that's shown in that picture?

126 Q. Oh, I see the confusion. I am just talking 1 2 about what's depicted on these maps. it's accurate --3 (Plante) Okay. Then yes. 4 Α. -- that these white triangles are the 5 Q. existing locations; is that correct? 6 7 (Bowes) Yes. Α. 8 Q. And the yellow circles depict the proposed 9 poles? (Bowes) Yes. 10 Α. And the white ones are intended, the white 11 Q. triangles are intended to be removed? 12 (Bowes) Yes. 13 Α. 14 Q. Okay. Thank you. 15 PRESIDING OFFICER WEATHERSBY: 16 Attorney Brown, just for planning purposes, 17 could tell me roughly how much more you have. You said you had 30 minutes, and it's been an 18 19 hour and 15. So I was wondering if we're going 20 to get to other witnesses. 21 MS. BROWN: Within the half-hour. 22 PRESIDING OFFICER WEATHERSBY: 23 future, perhaps you could take a look at your

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estimates, and if they need to be revised, let

1 Ms. Monroe know.

MS. BROWN: Thank you.

PRESIDING OFFICER WEATHERSBY: Thank

4 you.

5 BY MS. BROWN:

- Q. Mr. Bowes, what -- to reduce the visibility of this pole, what did Eversource consider?

 Was it the traffic that would see it from the road?
- A. (Bowes) So now I will affirm Mr. Plante's confusion. So this pole is existing there today as it was depicted in the picture. We never intended to replace the transmission structure that close to the roadway. We always were going to have it offset in the approximate location that it is today. It may have moved slightly. But I still think we're talking about apples and oranges.
- Q. Understood, because there are two poles there. I was trying to suss out on that visual whether that visual was the pole that was the white triangle or it was a regular electric line -- a pole with an electric line.

- 1 A. (Bowes) It is the latter today.
- 2 Q. Yeah. Okay. All right. Thank you.
- 3 A. (Bowes) So it was not a view sim. It was a
- 4 real photograph.
- 5 Q. Pardon me?
- 6 A. (Bowes) It's not a visual simulation. That's
- 7 a real photograph of what's there today.
- 8 Q. Yes, but it is not of the white triangle on
- 9 your engineering -- your environmental maps;
- 10 correct?
- 11 A. (Bowes) Yes, I think it is.
- 12 Q. Now, with respect to the yellow triangles,
- 13 those represent poles that would have been --
- 14 well, they're relocations of yellow dots; is
- 15 that right, if I use the legend accurately?
- 16 A. (Bowes) So, yes, the yellow triangles are
- 17 relocations of existing distribution circuit
- that is in this area. So you'll see it going
- 19 along the roadway.
- 20 Q. So with respect to the yellow triangle to the
- 21 far right of this Page 19, that's a relocated
- 22 pole?
- 23 A. (Plante) Yes.
- 24 Q. And it now impacts a wetland; is that

1 correct?

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- A. (Bowes) I can't tell because it looks like
 it's on the edge. But you can't really tell
 with the overlay of the pink work pad that
 overlays the green wetland area. We can
 certainly check.
- Q. Well, I'm just going to the next Page 20, which shows the match line. Is that a better picture of it for you to show that that's a relocated pole closer to a wetland?
- 11 A. (Bowes) Yes, it is a little bit better

 12 depiction, and it looks like it is a

 13 relocated pole. And it's just on the edge of

 14 the wetlands, but outside of it.
 - Q. Okay. With any of the -- with respect to the relocated poles on this Map 20, were any of these relocations at the request of landowners?
 - A. (Plante) I believe the overall design in this area was modified at the request of landowners to try to keep structure heights lower. So, in this particular location, on Page 19 of 31, that particular section of the design has the proposed transmission line

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mounted on single-circuit structures, with
the existing distribution line alongside it
on its own single-circuit structures, which
allows for a somewhat shorter, overall
design. However, it does result in two
separate lines of poles. So it's a trade-off
between height and ground impact --
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8 Q. Okay.

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- 9 A. (Plante) -- or footprint.
- 10 Q. So with the relocation of poles on property
 11 adjacent to Ms. Heald, does that limit
 12 Eversource's ability to relocate poles on her
 13 property?
- A. (Plante) It doesn't necessarily limit it in
 terms of overall ability to install
 structures; however, it does limit it in
 terms of overall economics of the Project and
 cost-effective design, total numbers of
 structures and whatnot.
 - Q. I'm going back to show you the revised engineering plan on Exhibit 149, Page 52.

 And do you agree that with respect to Ms.

 Heald's property, that during the construction phase she will not be able to

- access the land encumbered by the
 right-of-way, nor the land to the east of the
 right-of-way?
- (Plante) I would disagree that she'd not be 4 Α. 5 able to access it. There may be certain periods of time when there's construction 6 7 activity going on, where the safe work area 8 boundaries would preclude anybody from entering them. However, it's not likely that 9 10 that would totally preclude passage from one 11 side to the other of the right-of-way. Certainly safety considerations need to be 12 kept in mind, and proper communication with 13 the work crews is essential. However, I'm 14 certain that can be worked out. 15
 - Q. That's enheartening because Ms. Heald is under the impression from talking to

 Eversource personnel that she will not be able to access this part, this easterly portion of her property, during the entirety of the Project -- that being up to restoration -- which could be a year and a half. So could you speak to that a little bit.

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- A. (Plante) I'm not certain where that message would have come from.
- Q. With respect to the safety of her water line from her well across the right-of-way to her home, is it going to be the responsibility of the contractor or Eversource to ensure that she does not have -- that that water line is not interrupted?

- A. (Plante) So we will specify to the contractor that it needs to be maintained. Obviously the contractor works for us, so ultimately we're responsible for that. And we have actually even offered to provide a separate water source for her during the course of the construction in the event that there is an interruption so that she's not impacted.
- Q. Thank you. Ms. Frazier, with respect to traffic moving around this work pad that at this point on Exhibit 148, Page 19, shows encroaching on the Longmarsh Road, is there going to be any special traffic -- I guess safety personnel that will be brought to this place or to this junction of the road in the right-of-way during construction?

- 1 A. (Frazier) Can you repeat the question for us?
- Q. As it stands now, it looks like the work pad
- 3 associated with Pole F107-89 encroaches
- 4 Longmarsh Road. And the question is: How
- 5 will traffic be impeded or not impeded by
- 6 that work pad?
- 7 A. (Frazier) Mr. Plante decided construction --
- 8 (Court Reporter interrupts.)
- 9 A. (Frazier) Sorry. I think the drawing is a
- 10 little misleading. The work equipment won't
- actually be on the roadway.
- 12 Q. Thank you for that clarification.
- Do you anticipate the traffic flow in
- 14 this intersection of Longmarsh Road in the
- 15 right-of-way to be restricted or partially
- 16 restricted at any point during the
- 17 construction?
- 18 A. (Frazier) Not noticeably. I mean, there may
- be a chance where a truck is turning in and
- 20 has to swing wide. But I don't see it being
- 21 an issue.
- 22 Q. General question for the panel regarding
- stone walls. And I'd like to draw your
- attention to Exhibit 148, Page 19, of the

- stone wall that's on the south side of the
 right-of-way, representing the border of

 Ms. Heald's property and Longmarsh Road. Do
 you see that? I don't know who on the panel
 is going to speak to this, but I'm looking to
 you, Mr. Plante and Mr. Boughs [sic].
 - A. (Plante) Can you run your cursor over whichever wall you're speaking of? Yeah, got it.

- Q. This wall here. It's our understanding that this is a protected wall, and any damage to this wall will need to be restored. I just wanted to know what Eversource's plan is going to be with respect to this wall and needing to traverse the area with the access road.
- A. (Plante) So it's not our intention to impact this wall at all, hence the alignment of the access road around the end of it. We will obviously take great care to make sure we don't affect that wall.
- Q. Currently the wall still hasn't been restored from prior work in the right-of-way. Is it Eversource's intent that, if this wall or

- this stone wall needs to be restored pursuant to state law, that it will be done?
- A. (Plante) I guess I'm not specifically privy
 to information about prior damage by our
 company of the wall. I'm not saying that
 that hasn't happened, but I'm not
 specifically aware of that.
- 8 Q. I'm going to move on to page -- to
 9 Exhibit 148, Page 20. Actually, it's 21.
 10 There's a notation of "mean low tide" -11 "mean low water mark." Was this layer
 12 grabbed from like the State's Granite System?
 13 Or how did Eversource come up with this
 14 location of the mean low water mark?
 - A. (Bowes) I don't think we know the underlying source. We can also read this in along with the delineation of the road issue that we had before. We can get the sources of both of those and locations for --

(Court Reporter interrupts.)

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A. (Bowes) So we can certainly read into the record the source of this particular item at the same time we read in the previous request for the access roads -- or the private roads.

Do

Q. Thank you.

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Mr. Wall, I have a follow-up from your 2 earlier testimony and examination from Town 3 of Durham. You had mentioned burial depth of 4 42 inches may not be possible at times.

you remember that discussion? 6

- 7 (Wall) Correct. If possible. It possibly Α. 8 may not be.
- And that if adequate burial depth is not 9 Q. 10 possible, that would mean additional concrete 11 mattresses may be required; is that accurate?
- (Wall) The plan is where 42 inches is not 12 Α. acquired, concrete mats would be placed. 13
- Okay. And how is Eversource going -- if 14 Q. 15 additional concrete mattresses are required, 16 how is Eversource going to get approval? 17 it -- are they requesting a specific number of mattresses to be approved by DES? 18
 - (Wall) For the interface with DES, I'd have Α. to say that that question should probably go to the environmental panel. But there is a margin given in those figures. So we don't know that there would be required extra mats at this point.

- Q. So you're anticipating a margin of discretion to be approved with the permit?
- A. (Wall) I believe, although I'm not involved
 with the discussion with DES, I believe that
 to be the case. But you should check that
 with the environmental panel.
- Q. Do you know what the useful life of the concrete mattresses are?
- 9 A. (Wall) They're designed for -- I mean, we
 10 expect them to last the life of the cable
 11 system, which is 30 years.
- 12 Q. Thank you. Was there any concern that the
 13 concrete could leach and change the pH of the
 14 surrounding waters?
- A. (Wall) Again, that's more of an environmental question than a construction question.
- MS. BROWN: I just need to confer
 with the client group to make sure I asked all
 the questions.

20 (Pause in proceedings)

MS. BROWN: I believe I am done.

22 Thank you for your time.

PRESIDING OFFICER WEATHERSBY: So

we're scheduled to go another ten minutes, and

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we have Durham Historic Association scheduled for 20 minutes of cross-examination. How realistic is that? You think you'll be longer? Okay.

First, if everyone can look at their estimates, and if you need to revise them, let Ms. Monroe know. If you can get as close to them by really focusing on the questions that you're asking and having yourself really organized -- we're way behind schedule already. We want to get through this in the days that are allotted so it doesn't get too delayed because it's hard to get everybody together.

So that's it. We will adjourn for the day. We'll be back on September 17th at 9:00 a.m. We will continue with the construction panel and starting with cross-examination by the Durham Historic Association. And then hopefully later in the day we'll also get to Mr. Andrew. Thank you.

(Whereupon the Day 2 Afternoon Session was adjourned at 4:53 p.m., and the hearing will resume

(Frazier|Strater|Plante|Bowes|Dodeman|Wall)

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                  commencing at 9:00 a.m.)
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CERTIFICATE

I, Susan J. Robidas, a Licensed
Shorthand Court Reporter and Notary Public
of the State of New Hampshire, do hereby
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forth, to the best of my skill and ability
under the conditions present at the time.

I further certify that I am neither attorney or counsel for, nor related to or employed by any of the parties to the action; and further, that I am not a relative or employee of any attorney or counsel employed in this case, nor am I financially interested in this action.

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Susan J. Robidas, LCR/RPR
Licensed Shorthand Court Reporter
Registered Professional Reporter
N.H. LCR No. 44 (RSA 310-A:173)

	accurately (1)	130:11	91:1	69:1,2;78:8;89:16
\$	128:15	adjourn (1)	air (1)	amounts (1)
	achieve (1)	138:15	42:8	107:1
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7:19,22	acquire (5)	138:23	134:18	4:21;40:2
7.17,22	12:4,8,21;27:3,14	adjudicative (1)	allotted (1)	analyses (2)
Г	acquired (4)	44:6	138:12	40:16;41:6
L	15:8;70:12,15;	Administrator (1)	allow (6)	analysis (11)
[sic] (4)	136:13	55:4	87:7;99:6;102:20;	40:15,18;41:3;
	across (7)	adopted (4)	103:10;105:20;	43:18;61:23;75:1,15
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	77:20,21	advised (1)	10:14;48:18	24:9
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79:9	98:9;103:19;131:7	affects (2)	along (24)	anticipated (2)
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