STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL Docket No. 478 Eco-Site, Inc. and T-Mobile Northeast, LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a telecommunications facility located at 63 Woodland Street, Glastonbury, Connecticut Continued Public Hearing held at the Connecticut Siting Council, Ten Franklin Square, New Britain, Connecticut, on Thursday, February 8, 2018, beginning at 1:01 p.m. Held Before: ROBERT STEIN, Chairman

Appearances: Council Members: SENATOR JAMES J. MURPHY, JR., Vice Chairman ROBERT HANNON, Designee for Commissioner Robert Klee Department of Energy and Environmental Protection ROBERT SILVESTRI EDWARD EDELSON DANIEL P. LYNCH, JR. Council Staff: MELANIE BACHMAN, ESQ. Executive Director and Staff Attorney ROBERT MERCIER Siting Analyst

Appearances: (Cont'd) For Eco-Site, Inc. and T-Mobile Northeast, LLC: CUDDY & FEDER LLP 445 Hamilton Avenue White Plains, New York 10601 BY: DANIEL M. LAUB, ESQ.

THE CHAIRMAN: Good afternoon, ladies and gentlemen. I'd like to call to order the hearing of the Connecticut Siting Council today, February 8, 2018, at approximately 1:05. My name is Robin Stein, Chairman of the Connecticut Siting Council.

7 This evidentiary session is a 8 continuation of the public hearing held on January 11, 2018, at the Glastonbury Town Hall, Council 9 10 Chambers, in Glastonbury. It is held pursuant to Title 16 of the Connecticut General Statutes and 11 of the Uniform Administrative Procedure Act upon 12 13 an application from Eco-Site, Inc. and T-Mobile Northeast, LLC for a Certificate of Environmental 14 15 Compatibility and Public Need for the 16 construction, maintenance and operation of a telecommunications facility at 63 Woodland Street 17 18 in Glastonbury, Connecticut. This application was received by the Council on September 18, 2017. 19 20 A verbatim transcript will be made of

21 this hearing and deposited with the Town Clerk's 22 Office in the Glastonbury Town Hall for the 23 convenience of the public.

24 We will proceed in accordance with the 25 prepared agenda, copies of which are available

1 here. We will begin with the appearance of 2 the applicants, Eco-Site, Inc. and T-Mobile 3 Northeast, to verify new exhibits marked as Roman 4 numeral II, Items B-5 and 6 on the hearing 5 6 program. 7 Attorney Laub, please begin by 8 verifying the new exhibits you have filed in this matter, and verify the exhibits by the 9 10 appropriately sworn witnesses? 11 MR. LAUB: Certainly, Mr. Chairman. 12 For the record, Daniel Laub of Cuddy & Feder here 13 on behalf of the applicants, Eco-Site and T-Mobile. 14 15 For the record, we submitted, as 16 identified in the program as II-B-5, a supplemental submission, received February 2, 17 18 2018, that included FCC antenna structure registration, NEPA review summary, a photo 19 documentation for existing access drive and 20 compound location, revised drawings for the new 21 22 access drive, wetlands report, and visual 23 simulations. And then II-B-6 includes the bulk 24 filing of the full NEPA report, which was also 25 submitted on February 2nd.

1	Our witnesses are here today. I'm
2	going to remind them all that they are under
3	oath remain under oath.
4	MATTHEW W. ALLEN,
5	ADRIAN BEREZOWSKY,
6	CHUCK BRUTTOMESSO,
7	ANDREW J. DESANTIS,
8	SCOTT HEFFERNAN,
9	STEVE RUZZO,
10	JAMES M. MCMANUS,
11	called as witnesses, being previously duly
12	sworn by Ms. Bachman, were examined and
13	testified further on their oaths as follows:
14	DIRECT EXAMINATION
15	MR. LAUB: And in turn, I would ask Mr.
16	Berezowsky, did you prepare, and are you familiar
17	with the materials I've identified?
18	THE WITNESS (Berezowsky): I am.
19	MR. LAUB: Mr. Heffernan?
20	THE WITNESS (Heffernan): Yes.
21	MR. LAUB: Mr. Allen?
22	THE WITNESS (Allen): Yes, I am.
23	MR. LAUB: Mr. Ruzzo?
24	THE WITNESS (Ruzzo): Yes, I am.
25	MR. LAUB: Mr. DeSantis?

1 THE WITNESS (DeSantis): Yes. MR. LAUB: Mr. McManus? 2 THE WITNESS (McManus): Yes. 3 MR. LAUB: And, I'm sorry, in the back, 4 Mr. Bruttomesso? 5 THE WITNESS (Bruttomesso): Yes. 6 7 MR. LAUB: Okay. And do you have any 8 corrections, additions or clarifications of these 9 materials, as so submitted? 10 THE WITNESS (Berezowsky): No. THE WITNESS (Heffernan): No. 11 THE WITNESS (Allen): No. 12 THE WITNESS (Ruzzo): Yes. 13 THE WITNESS (DeSantis): Yes. 14 15 THE WITNESS (McManus): No. THE WITNESS (Bruttomesso): No. 16 MR. LAUB: And are these materials true 17 18 and accurate to the best of your belief? 19 THE WITNESS (Berezowsky): Yes. THE WITNESS (Heffernan): Yes. 20 THE WITNESS (Allen): Yes. 21 22 THE WITNESS (Ruzzo): Yes. 23 THE WITNESS (DeSantis): Yes. 24 THE WITNESS (McManus): Yes. 25 THE WITNESS (Bruttomesso): Yes.

129 1 MR. LAUB: And do you adopt them as your sworn testimony today? 2 3 THE WITNESS (Berezowsky): Yes. THE WITNESS (Heffernan): I do. 4 5 THE WITNESS (Allen): Yes. THE WITNESS (Ruzzo): Yes. 6 7 THE WITNESS (DeSantis): Yes. 8 THE WITNESS (McManus): Yes. 9 THE WITNESS (Bruttomesso): Yes. 10 MR. LAUB: And with that, Mr. Chairman, I'd ask that they be made full exhibits. 11 12 THE CHAIRMAN: Okay. I'm just going to 13 check to see, is there anybody from the town here 14 representing the other party? 15 MR. LAUB: Not that we've seen, Mr. Chairman. 16 17 THE CHAIRMAN: I guess there's no one to object. The exhibits are admitted. 18 19 (Applicant's Exhibits II-B-5 and Received in evidence - described in 20 II-B-6: index.) 21 22 THE CHAIRMAN: We'll now begin with 23 cross-examination of the applicant by Mr. Mercier. 24 CROSS-EXAMINATION 25 MR. MERCIER: Thank you. I just have a

few questions on the February 2nd submittal, and I guess I'm going to turn right away to the photo simulations that were provided, particularly photos of Figure 9, the 9 series, that shows a lot of the stealth options that the Council and the town requested so they could get a better handle as to what the options would look like.

8 I guess I'll start with the flag pole 9 style tower that you submitted. I think it's on 10 Figure 9e. There's two types. There was an interior flush mount, then there was an exterior 11 flush mount design for the flag pole. And down on 12 the bottom I notice it states that it was 195 feet 13 that was modeled at this location. 14 I'm just 15 curious why that tower height was used rather 16 than, say, something lower given the needs of T-Mobile? 17

18 THE WITNESS (Ruzzo): This is Yes. Steve Ruzzo with Eco-Site. The reason, we had 19 20 discussed previously any limitation on a full array for our carriers would require additional 21 22 height. We went up to the maximum height that we felt would be feasible without the additional 200 23 24 foot requirements for notifications.

25

MR. MERCIER: Okay. So it's not

essentially based on T-Mobile's tower needs. 1 Originally, this was 150 feet, so I'm assuming it 2 would be 150 and 160 they might require if it was 3 a flush mount design. You just wanted to make it 4 look like if there was other carriers interested 5 at a higher height? 6 7 THE WITNESS (Ruzzo): Correct. 8 MR. MERCIER: Thank you. 9 For the fire tower, what height was that modeled at? 10 11 THE WITNESS (Allen): That was modeled 12 at the same height as the original tower, which I believe was 150? 13 THE WITNESS (Ruzzo): Yes. 14 15 THE WITNESS (Allen): Yes, 150 to the 16 top of the tower. MR. MERCIER: Would it be anticipated 17 18 if -- would the antennas be mounted at 150, or for such a design as that, would it have to be lower, 19 given like a little hoop design on the fire tower, 20 or any other design limitations? 21 22 THE WITNESS (DeSantis): So this is AJ DeSantis with Infinigy. As we've seen in the past 23 24 with some fire towers, there will be a small pitch 25 to the roof, but generally negligible. There's

1 not so much to shed, so much snow. Obviously, it's designed to support any loads that would be 2 3 up there, but the intent was to have the top of the structure at 150, and the antennas for 4 5 T-Mobile inside that at that elevation, so similar to what was in the application. 6 7 MR. MERCIER: Okay. So around the center line of --8 9 THE WITNESS (DeSantis): 146-ish, something like that. 10 11 MR. MERCIER: Just out of curiosity, I 12 don't recall one coming before the Council. Are 13 you aware of any in Connecticut or Massachusetts or any --14 15 THE WITNESS (DeSantis): Connecticut, 16 Massachusetts, I don't know specifically. I know that we had worked on one in New Hampshire. 17 18 THE WITNESS (Ruzzo): And not necessarily internally mounted to those. We have, 19 20 you know, had carriers collocate on DCR towers or those type of fire towers. The collocation 21 22 opportunities are limited, though, based on those 23 designs. So, you know, there's certain -- on an 24 existing tower, if you look at the way they're set 25 up, there's limitations on an existing tower

1 mounting directly to those. But a stealth, I'm not familiar with -- we haven't generated one, you 2 3 know, a faux fire tower for that use specifically. THE WITNESS (DeSantis): If I may add 4 5 onto Mr. Ruzzo's comments there? The first carrier for the installation that we did in New 6 7 Hampshire, the first carrier was concealed within. 8 Subsequent carriers were then installed below. So 9 not much different than what we would see on, say, 10 a self-support tower other than that top carrier for this one instance was internally mounted. 11 So it looks like a nice fire tower at the top, and 12 then the next carrier down was external on similar 13 size sector frames. 14 15 MR. MERCIER: Thank you. And I guess last would be the photo 16

17 simulation for the tree tower, which I believe is 18 9c. I want to know what height was modeled there. THE WITNESS (Allen): That was modeled 19 20 at 150 feet to the top of the antenna array, and then there's a branching structure that's maybe 3 21 or 4 feet higher than that on top of the tree. 22 23 MR. MERCIER: So you attempted to model slightly higher to account for a cone, I'll call 24

25 it a cone?

1 THE WITNESS (Allen): That is correct, just for the aesthetics of the tree shape. 2 3 MR. MERCIER: Thank you. THE WITNESS (Allen): And if I could 4 correct my previous answer when you asked about 5 the fire tower? It was 150 to the top of the 6 7 boxed portion of the fire tower, and the peaked roof was maybe 3 or 4 feet higher than that, just 8 9 to give it that look also. 10 MR. MERCIER: Thank you very much. In the application -- it was on page 11 12 19 -- it basically stated that the monopole that 13 you designed here today, Eco-Site's costs would be with the foundation about \$100,000 for 14 15 construction and material. Do you have any idea 16 how much a tree tower would cost? 17 THE WITNESS (Ruzzo): Typically, the addition of, say, four carriers worth of limbs 18 would be an additional \$40,000 for the limbs 19 alone. So that would be in the collocatable area. 20 If you went down to bring it down to further 21 22 areas, you know, you could be looking at, 23 depending on -- in the range of approximately 24 \$10,000 per 10 feet of additional section of 25 limbs. So currently I think we're proposing from

about 155 down to about 110 I think I requested. 1 Right? 2 3 THE WITNESS (Allen): That sounds 4 right, yes. 5 THE WITNESS (Ruzzo): Limbs below that would obviously cost additional for those faux 6 7 limbs. And the additional structural, you know, would also incur additional foundation, larger 8 9 foundation. That would -- you know, it all depends on the soil, but can run up another 10 \$10,000, roughly, for foundation work to be 11 associated with that, you know, larger tower 12 ballast that would be required. 13 14 MR. MERCIER: Would there be any 15 additional cost on the steel itself compared to a 16 monopole, a regular monopole? THE WITNESS (Ruzzo): Well, yeah, 17 18 because the -- I mean, the structure itself is all included in that --19 MR. MERCIER: So the \$40,000 --20 THE WITNESS (Ruzzo): -- because it 21 hasn't received those limbs. The limbs aren't 22 23 just stand alone. 24 MR. MERCIER: So the 40,000 for the 155 25 and 110 includes the branches and the brackets or

tubular structure? 1 THE WITNESS (Ruzzo): 2 Yes. MR. MERCIER: Just out of curiosity, 3 does this photo simulation show the branches 4 5 starting at 110, or do these extend down lower? THE WITNESS (Allen): Off the top of my 6 7 head, I don't recall whether they go down below 8 the tree line where you can't see. I believe they -- and it was modeled at 110 to 150, so I'm 9 not sure how much of that might be below the tree 10 11 line. 12 THE CHAIRMAN: Follow-up. 13 MR. LYNCH: Just as a follow-up to that tree line conversation, what's the height of the 14 15 canopy in this area to the tree line? 16 THE WITNESS (Allen): These trees, it would be a best guess, usually, in my experience, 17 18 they range between 50 and 70 feet for deciduous in this type of forest. 19 20 MR. LYNCH: That's what I thought. Thank you. 21 22 MR. MERCIER: Just going back to the tree costs, what I think I'm hearing is if the 23 24 tree branches went down maybe another two levels 25 or so, we're talking about an extra \$80,000 or so

1 for the tree tower?

THE WITNESS (Ruzzo): Yeah, almost 2 doubling the cost of the structure for 3 installation, correct. 4 Yes. 5 MR. MERCIER: Do you have any idea how much the fire tower option would cost? 6 7 THE WITNESS (Ruzzo): I don't. Sorry. 8 MR. MERCIER: And how about the flag 9 pole over at 195 feet, as modeled, any idea what the cost difference would be? 10 11 THE WITNESS (Ruzzo): No, I don't at 12 this time. THE WITNESS (DeSantis): If I may? 13 With your comment in regards to the cost of the 14 15 fire tower, I don't have an exact figure of it for 16 that one installation that I was part of in New Hampshire, I will say it is considerably more than 17 18 a monopine type installation. I don't have exact numbers. I just know the design fees associated 19 20 with that, and then I saw some rough order of magnitude during the original quoting process. 21 22 MR. MERCIER: All right. 23 THE CHAIRMAN: Mr. Lynch. 24 MR. LYNCH: Now that we're talking 25 about the tower, I do have a couple of questions

1 on it. And to go back to Mr. Mercier's thought, there was a tower proposed in Connecticut a few 2 years back out in western Connecticut. It was 3 never built. But you were talking about the costs 4 being considerably more. How much more? 5 THE WITNESS (DeSantis): I don't have 6 7 an exact number. Order of magnitude, I don't know that I could put a multiplier on that. 8 9 MR. LYNCH: And you mentioned earlier 10 that if additional carriers came on, they would go below. Now, would they be attached inside the 11 12 lattice onto the pole, or attached to the outside of the lattice structure? 13 THE WITNESS (DeSantis): So the 14 15 installation that I mentioned in New Hampshire was essentially a four-legged self-support tower. 16 So there was no internal monopole structure. 17 It 18 becomes a lattice tower to look -- to resemble a fire tower structure with cross-bracing, thus the 19 20 structural stability of it. So in that instance, the future, the second carrier mounted to the leg 21 22 with their sector frames. 23 MR. LYNCH: Would it have to be a guy tower, or could it be stand alone? 24 25 THE WITNESS (DeSantis): It could be

1 stand alone.

MR. LYNCH: Thank you. 2 3 MR. MERCIER: For the site, as proposed, you mentioned in the application, page 4 5 19, it was \$100,000 for your construction costs for the monopole. How does Eco-Site recover that 6 7 cost? 8 THE WITNESS (Ruzzo): So our costs are 9 recouped by tenant leases, so our carriers who 10 come on are solely on our tenant leases. So it's a lease structure for us. 11 MR. MERCIER: And that would include 12 13 any stealth option also? 14 THE WITNESS (Ruzzo): Correct. 15 MR. MERCIER: Stealth design, that 16 would also be through tenant leases? 17 THE WITNESS (Ruzzo): So the whole capital cost of that site, our way to recoup the 18 costs for those capital, are through our leases, 19 20 correct. MR. MERCIER: And I guess on the 21 22 T-Mobile side, I'm just curious how T-Mobile 23 recovers the costs of their installation and 24 equipment that's put on the tower? 25 THE WITNESS (Heffernan): Do you want

1 me to take that?

2 MR. LAUB: It's up to you. THE WITNESS (Heffernan): Well, 3 T-Mobile recoups their costs through service 4 5 contracts with their customers. MR. MERCIER: Is that on a regional 6 7 basis for this, or is it statewide? Is it 8 national? How do the costs vary, do you know? 9 MR. LAUB: I had double checked with T-Mobile on that. And it's state oriented with 10 11 some fees for people who are maybe perhaps out of 12 state but are often instate, you know, or 13 traveling long term, but largely the metrics are used for subscribers in the state. 14 15 MR. MERCIER: Thank you. 16 Back on November 3rd the Connecticut Airport Authority submitted a letter to the 17 18 Council. You received a copy of it. Basically on the letter it asked that Eco-Site or T-Mobile, the 19 applicants here, submit an official notice of 20 proposed construction or alteration, that is Form 21 22 FAA 7460-1. So I'm just wondering, has the applicant submitted that form, as requested by the 23 24 Connecticut Airport Authority? 25 THE WITNESS (Ruzzo): I believe that

says at time of construction or prior to
 construction.

3 MR. MERCIER: Because you intend to do 4 it at that time?

5 THE WITNESS (Ruzzo): We wouldn't do it 6 before approval. So there's no need for us to do 7 it prior to any approvals, correct, but we do have 8 the registered antenna structure. We've already 9 registered the structure itself with the FAA and 10 FCC.

11 But that's the municipal airport that 12 made that request, correct, that notification of 13 construction?

MR. MERCIER: No. It's the Connecticut Airport Authority requested that this form be filed, an actual state entity. It could turn out that -- well, I'm not sure.

MR. LAUB: So it is already registered. They registered it with the FCC already. So it should be identified on the mapping. And then once the form -- correct me if I'm wrong -- but the form would be submitted once we actually know we're going to --THE WITNESS (Ruzzo): Construct.

25 MR. LAUB: -- move forward to

1 construction.

THE WITNESS (Ruzzo): Correct. 2 THE WITNESS (Berezowsky): If I could 3 interject because we do a lot of this also? We 4 5 really wouldn't be able to submit a form until we finalized the height in the first place. So until 6 7 the height of the tower is determined, it would be 8 premature to actually go down that route. That's 9 generally how we do that. So whenever we file 10 with the FAA, we first want to know what the final height is so that we can consult with them. And 11 then once we do know that height, and we have 12 13 registered the tower, then we do the final notification once the tower is actually 14 15 constructed. MR. MERCIER: 16 I thought it was if you 17 propose a certain tower, in this case 150, and you 18 register with the FCC, you have to submit a notice with the FAA immediately. 19 20 THE WITNESS (Berezowsky): Yes. But the final notice that you give them, you want to 21 know what the actual final height is going to be. 22 23 MR. MERCIER: Well, in this case you're 24 proposing 150, correct? 25 THE WITNESS (Berezowsky): Correct.

1 MR. MERCIER: So you didn't do any filing for 150? 2 3 THE WITNESS (Ruzzo): We've already 4 done that. THE WITNESS (Berezowsky): That's been 5 completed. 6 7 THE WITNESS (Ruzzo): We have done 8 that. 9 MR. MERCIER: To the FAA, this specific Form FAA 7460-1? 10 11 THE WITNESS (Ruzzo): I believe we 12 already answered that, but let me double check. 13 THE WITNESS (Berezowsky): If you've done the ASR, you'd have to have the FAA 14 15 notification. 16 MR. MERCIER: Don't they respond to you and say there's determination of no air hazard? 17 18 THE WITNESS (Berezowsky): Correct. 19 MR. MERCIER: Okay. That's what I'm 20 looking for, the response letter back. 21 SENATOR MURPHY: And don't they 22 sometimes give you a maximum height? Because we 23 have some poles where, when we came to the 24 hearing, there was a letter telling us that there 25 was a cap on how high they could put the pole to

1 get approval.

THE WITNESS (Ruzzo): Yes. 2 SENATOR MURPHY: I think it was on the 3 town line of Guilford or someplace, there was a 4 5 multiple selection. MR. MERCIER: Uh-huh. 6 7 THE WITNESS (Ruzzo): So again, we have our antenna structure registration in with the FCC 8 at our planned height, and I believe we had 9 10 made -- I don't want to say --11 MR. LAUB: My understanding of the 12 registration, which is advanced from doing the air 13 map study, is when you look in the official copy of the registration itself where it says "FAA 14 15 Chapters: none," that's where they would cite 16 where you need to light the tower, if necessary. 17 THE WITNESS (Berezowsky): So I can speak to this. Sorry. So the FCC ASR, which is 18 the files that are there, they're interconnected 19 20 with the FAA process. So since that does say "FAA Chapters: none," that means that there has been a 21 22 determination by the FAA. And we can get that for you as well. In the 7460-1, that is the 23 24 notification, and it's incorporated into the ASR, 25 which is the FCC registration.

1 MR. MERCIER: So there's an additional document that you probably haven't submitted that 2 basically said there's no hazard there? 3 THE WITNESS (Berezowsky): I thought I 4 5 had seen it. But in order to finalize your FCC registration, you have to put in the actual 7460-1 6 7 response number, and it won't let you do it 8 without it because I've tried. And then the next 9 step will be the 7460-2, which is the notification 10 to the FAA that you have constructed the tower. So we should be able to get that for you. 11 12 THE WITNESS (Ruzzo): I believe we 13 already have submitted it. That's why I'm confused. 14 15 MR. LAUB: And I'm going to double check on it. 16 THE WITNESS (Ruzzo): We'll confirm. 17 т 18 believe we've done all our filings here. So we'll confirm, but I believe we've already submitted 19 20 those. MR. LAUB: We'll get the actual 21 22 document. 23 MR. MERCIER: Thank you. 24 MR. EDELSON: Mr. Chairman. 25 So isn't really the point that you're

looking for, Bob, is confirmation that the FAA is
 okay? And they're saying the ASR, where it says
 "Chapters: none" is the equivalent of that. But
 is that our understanding that's sufficient?
 Because that's what they presented here is
 "Chapters: none."

7 MR. MERCIER: The airport authority is 8 requesting a certain document. So that's all I'm 9 looking for is this document, was it filed based 10 on this comment from the Connecticut Airport 11 Authority.

MR. EDELSON: But do you hear what they're saying is that their understanding is, if it says "Chapters: none," they can show that document and say it's one in the same? That just seems to be, it's either true or false. It's either it is an equivalent or it isn't. We should be able to check that.

19 THE WITNESS (Berezowsky): Just to 20 correct, it's not necessarily equivalent. What I 21 meant by that is that that FCC registration, when 22 it says "FAA Chapters: none," that is a reference 23 to the FAA 7460-1 response.

24 MR. EDELSON: That number is what we're 25 looking for?

1 THE WITNESS (Berezowsky): Correct. MR. EDELSON: But we just physically 2 3 don't have it, we have a reference to it? THE WITNESS (Berezowsky): Correct. 4 5 MR. MERCIER: Okay. I'll move onto another subject. It has to do with the site plans 6 7 that were submitted in the February 2nd filing, specifically plan EC2, that shows the revised 8 driveway drawing pretty much. 9 In looking at it, there's the retaining 10 I'll just call it the left or right side 11 walls. 12 of the drawing. In looking at the right side of 13 the drawing, it shows a driveway, then a swale, then the retaining wall, then another swale, and 14 15 the swale has a riprap line. I don't really 16 understand why there's two separate swales divided 17 by the wall. Can you please explain? 18 THE WITNESS (DeSantis): Certainly. So the intent there with the swale to the right side 19 20 or to the east on the up -- high side of the wall, the intent there would be for any water that was 21 to sheet flow down the side of the existing 22 undisturbed area, that it wouldn't cascade over 23 24 the wall and subsequently add additional into the 25 low side swale.

1 MR. MERCIER: Just so I understand, what side is the retaining wall, what's the higher 2 3 grade, is it the retaining wall is higher on the driveway side, or is it holding a higher slope? 4 5 THE WITNESS (DeSantis): I think the best way to explain it would be if we're standing 6 7 at the existing Farm Drive looking up towards the 8 proposed site, it would be a cut for the new 9 drive. So as you make the left-hand to the new 10 drive, there would be -- it's staggered, but visually there would be two walls that you would 11 12 be traveling in past. 13 MR. MERCIER: So the driveway would be a higher elevation than the --14 15 THE WITNESS (DeSantis): The driveway 16 would be lower in elevation. MR. MERCIER: That's what I wanted to 17 clarify. Thank you. 18 19 Now, I also noticed that the telephone utility line is also below one of the swales. 20 IS there any kind of problem having that telephone 21 utility line there? 22 23 THE WITNESS (DeSantis): Certainly, 24 that was a consideration when we were redesigning 25 that section there. Certainly, in our ongoing

1 communication with the utility companies,

2 certainly they may have some concerns with that,
3 but from an installation and design standpoint, it
4 would be below the depth of the swale buried with
5 appropriate cover.

6 MR. MERCIER: Now, looking at this 7 diagram on the west side, I don't really see any 8 riprap, swales or anything. Is that necessary for 9 this project to control any type of sheet flow in 10 that, I'll call it a ditch?

11 THE WITNESS (DeSantis): Certainly, 12 that could be added as well. When we did the 13 design, as we were looking at the overall impacts 14 from the site location, the lease area down, the 15 areas that we were concerned with the most were on 16 the east side with additional riprap.

Could additional be added? Absolutely. 17 18 MR. MERCIER: In looking at the original plan for the site that was in your NEPA 19 bulk file, I noticed that the road originally came 20 off the existing driveway a little bit to the 21 22 west, that driveway that leads to the sand pit, according to these diagrams. Why did the 23 24 landowner switch it to this alignment? I believe 25 in the application it said, you know, based on the

1 final lease arrangements, move the driveway over to this current alignment, but it seems that would 2 3 be less grading just looking at this plan here. THE WITNESS (DeSantis): And I believe 4 we discussed this in the previous meeting briefly. 5 But in discussions with the property owner, they 6 7 had advised us that moving the drive to the east from that existing drive was the desired. 8 9 MR. MERCIER: No reason given? 10 THE WITNESS (Bruttomesso): Gravel, they do gravel work there, and that's part of it. 11 12 They wanted to leave that separate basically. 13 That's the logic, I presume. They never did give an exact answer. 14 15 THE WITNESS (DeSantis): And the 16 existing drive that is to the west, I don't know that I would actually classify it as a drive. 17 18 I've hiked it. I've walked it. It's on the verge of impassable by a vehicle, so even the term 19 "drive" is generous. 20 21 MR. MERCIER: I guess my last question 22 has to do with attachment 2 of your February 2nd 23 filing. It has to do with the NEPA summary 24 In there on page 7 it has a section report. 25 titled "Migratory Bird Review." And basically, in this NEPA summary that you provided it says the
 project meets many of the recommendations of the
 U.S. Fish and Wildlife Service.

4 So as part of the fish and wildlife 5 service recommendation, do the applicants, are 6 they going to consider the site clearing 7 recommendations for the breeding birds? I don't 8 know if you've seen that recommendation in the 9 U.S. Fish and Wildlife Service guidelines.

Is anybody familiar with the breeding
bird restriction in the U.S. Fish and Wildlife
Service guidelines referenced here?

13THE WITNESS (Berezowsky): Yes, I am.14MR. MERCIER: So is that one of the15recommendations the applicant intends to follow?

THE WITNESS (Berezowsky): So there are 16 17 numerous recommendations. Primarily, they deal with height, lighting, and not having guyed wires. 18 Those are the three largest concerns from U.S. 19 Fish and Wildlife and the FCC when it comes to 20 There are other ones, but no tower is 21 towers. essentially ever going to be perfect when it comes 22 to migratory birds. 23

24 MR. MERCIER: I guess I should clarify.
25 I meant the site clearing recommendation they have

1 to avoid peak breeding season.

THE WITNESS (Berezowsky): I am not 2 familiar with the exact language of that. I'd 3 have to look it up. 4 5 MR. MERCIER: Okay. I don't have any 6 other questions. Thank you. 7 THE CHAIRMAN: Thank you. 8 We'll now go to questions by members of 9 the Council. 10 Senator Murphy. SENATOR MURPHY: Thank you, 11 Mr. Chairman. 12 In regards to the letter from the Town 13 of Glastonbury, which is dated the 29th of 14 15 January, and the photo simulations that we 16 received for this hearing, had you heard anything 17 from the town, other than this letter, after the 18 photos and regarding the camouflaging of the 19 tower? 20 MR. LAUB: No. I heard nothing from the town, other than this letter -- other than at 21 the prior hearing and then this letter. 22 23 SENATOR MURPHY: I know the simulations were done before the date of their letter. Do you 24 25 have an idea of when they get the simulations?

1 MR. LAUB: Mr. Johnson was emailed on February 2nd. 2 3 SENATOR MURPHY: So they were after 4 this then? 5 MR. LAUB: They were after this. And I should note that this letter was sent to me by 6 7 regular mail, so I didn't receive it until earlier this week. 8 9 SENATOR MURPHY: And you've heard 10 nothing on that. All right. 11 Mr. Heffernan, these questions are a 12 little bit unusual, but I really want to talk 13 about collocation. And most people in your position don't really want to talk about other 14 15 carriers and what have you. But this is an 16 application where you're here representing a 17 carrier that has practically nothing in this area, 18 it's like going back 15 years or so to when it was the beginning time and the system was being set 19 20 up. And I know you really can't testify 21 22 with certainty, or what have you, but what's the 23 situation with other carriers in this general 24 area, do they have more facilities in the area 25 that they're using? I don't want to term it

1 better coverage than your client, because I guess that's not a good thing to have you admit. 2 But what I'm really looking at is how great is the 3 need for collocation. Because I always think of 4 5 the stealth towers with the antennas inside as just a terrible distraction to multiple carriers 6 7 on there because you have to use so much space for 8 each carrier, and the height is just not available, so they put another tower someplace 9 10 else, which kind of defeats the purpose of what we're trying to do in a lot of respects. 11 12 And I'm not the greatest fan of trees, 13 but maybe a tree is better here than someplace else. But, as best you can tell me, and I know 14 15 I've tried this with others before, so give me the 16 best you can give me. THE WITNESS (Heffernan): Well, just 17 18 knowing what's in the general area -- and again --19 SENATOR MURPHY: I just assume if you 20 can't find something in the area, they can't either. 21 22 THE WITNESS (Heffernan): Right. And that's really where I was leading to. Along the 23 24 highways --SENATOR MURPHY: 25 They're pretty --

THE WITNESS (Heffernan): Route 2, and 1 then as you head west over towards 91, there is an 2 infrastructure along those corridors. 3 And obviously that's the path of least resistance for 4 most carriers when they want to provide coverage 5 to an area. Before we ever propose a new 6 7 structure, we always try to make use of existing structures. And this area was exhausted for 8 looking for existing structures that were of a 9 10 size that would provide adequate coverage. 11 So the best of my knowledge with surrounding sites, I think most of the major 12 13 players are collocated on the same structures. So within a certain percentage up or down from our 14 15 existing footprint, there seems to be pretty similar coverage. And I don't see any solutions 16 for other carriers in the area of the proposed 17 18 site, so my personal opinion is that there would be great interest for collocation just because of 19 a very vast deficit of sites in the area. 20 SENATOR MURPHY: 21 Right. 22 THE WITNESS (Heffernan): But again, that's my opinion. I have no knowledge of their 23 24 build plans.

SENATOR MURPHY: I understand where

25

1 you're coming from.

THE WITNESS (Heffernan): But it is -and I agree with you, it's a very large uncovered area, and a new usable structure, I would think, is very attractive.

6 SENATOR MURPHY: Okay. And just one 7 question that came to mind. The mention of 3 or 4 8 feet above the 150 for the tree, is that because 9 the antennas were down below the top of the tree? 10 Because usually we hear it's 7 feet above the top 11 of the pole.

12 THE WITNESS (Ruzzo): And it can be, 13 depending on how you want it to look. We can go 14 anywhere from 7 to as low as 2, but that looks 15 like a bad haircut on a monopine.

SENATOR MURPHY: The haircut here is 3 or 4 is what you're telling me?

18 THE WITNESS (Ruzzo): Yes. And from 19 that distance it's, you know, a negligible impact, 20 I would say, but we're trying to keep the height 21 as close to existing as what we've proposed.

And just to expand on what you've been asking, we have reached out to the carriers. Obviously, we sent the letters as part of our application, and we do have our people, you know,

1 talk --SENATOR MURPHY: It's in your best 2 3 interest if they want to come on --THE WITNESS (Ruzzo): Well, certainly. 4 5 And, I mean --SENATOR MURPHY: It's another check in 6 7 the mail. 8 THE WITNESS (Ruzzo): And everyone's 9 budgets are out there, and they're already looking 10 at collocations for the year and whatnot. We have received already some feedback from Verizon that 11 12 they see this as this looks like a good site. So, 13 I mean, initial feedback right away. But that's 150 foot, you know, tower that we've proposed and 14 15 not a monopine, not any kind of concealed sections 16 or anything like that. So that was our, you know, 17 what we've originally come in with our application 18 at. SENATOR MURPHY: What I was driving at 19 20 is, if they're concealed, it makes a difference as to where they can collocate on 150 foot tower. 21 22 THE WITNESS (Ruzzo): Absolutely. 23 SENATOR MURPHY: And it makes a big difference in their coverage as well. 24 25 THE WITNESS (Ruzzo): And when they're

1 talking about budgets, you know, when they have to 2 talk about multiple RAD centers, as we call the 3 elevations that they're collocated on --

4 SENATOR MURPHY: And they're going to 5 go to place where the best buy gives them the best 6 coverage.

7 THE WITNESS (Ruzzo): Right. There's a 8 cost to each of the carriers for going inside, you 9 know, a stealth concealment or even a monopine because there are, you know, additional ways they 10 have to access their antennas for maintenance and 11 12 everything else like that. So there are, you 13 know, also other considerations with the fact that we are at the -- you know, we've put this as high 14 15 as we can right here. We're putting a structure up here now. And now at times maybe something 16 17 that's only accessible by a man lift that would 18 have them traverse up to the location to access 19 their antennas, so, you know, each one of those has its own --20 21 SENATOR MURPHY: Okay. That's all I

21 DEMATOR MORFHIL ORay. Hat's all 1 22 have right now, Mr. Chairman. Thank you very 23 much.

24THE CHAIRMAN: Thank you.25Mr. Silvestri.

MR. SILVESTRI: Thank you,

2 Mr. Chairman.

1

I want to go back to the fire tower because I have absolutely no experience. So a couple questions I wanted to ask you could help to broaden the knowledge base, if you will.

7 Could you describe what the base of the 8 fire tower would look like, say, in terms of the 9 dimensions and what that could do to the size of 10 the compound?

11 THE WITNESS (DeSantis): Certainly, if 12 I may? Speaking back to the past experience that 13 I've had with them, again, the general overall feeling would be that it would be a four-legged 14 15 structure. To set up for the base, you start at 16 the foundation and work to the top to get that 17 square-esque or rectangular-esque structure. 18 Typically for similar height sites, if we're talking a self-support tower at, I'll use this 19 20 example, a self-support three-legged self-support tower at 150 feet versus a four-legged 21 self-support tower with the concealment at the 22 top, the leg sizes may or may not increase in 23 24 diameter, but it's on the order of magnitude of 25 inches rather than feet.

1 The overall footprint face width, if we call it, on a triangular tower, we reference the 2 face width distance from center to center of the 3 The one fire tower that we did in New 4 leq. 5 Hampshire was, if memory serves me correct, on the order -- I want to say it was on the order of 6 7 about 15 feet to 18 feet face width, and then that structure at the top, it was very vertical, and 8 then that structure at the top was those same 9 dimensions. 10

11 Whereas, what we've seen in the past is 12 self-support three-legged towers taper. This 13 would be more of a straight structure to emulate a fire tower. Not to say that we couldn't design it 14 15 to have a bigger face width at the base. If the 16 fire tower wanted a bigger face width at the 17 bottom, you taper and then go to a straight 18 section. Again, it all depends on aesthetics. It's certainly additional cost if you go with 19 additional steel. 20

As far as the overall impact to the compound location, certainly this will have a bigger footprint than a monopole, even more so than a three-legged self-support tower, which isn't even a discussion. But we were successful

in getting that site developed within a 100 by 100 1 lease area. Obviously, the fence area had to grow 2 to accommodate that, as well as future carriers. 3 MR. SILVESTRI: Thank you, first of 4 5 all. And let me continue on that one. Would such a tower be considered to be climbable either by 6 7 using, say, ladder pegs on the side of the legs or with a stairway somewhere in the middle? 8 9 THE WITNESS (DeSantis): Yes. 10 MR. SILVESTRI: Both? THE WITNESS (DeSantis): Again, the 11 12 site -- and this is why I couldn't quantify the 13 cost previously -- the site that we did in New Hampshire had both. It was a big endeavor. And 14 15 then there was protective measures to -- safety measures to prevent potential trespassers from 16 17 walking by said fire tower. 18 MR. SILVESTRI: That would have been my 19 follow-up. THE WITNESS (DeSantis): So there are 20 certainly safety concerns with build it and it's 21 there. You know, I believe our industry, we've 22 done as best we can with climbing pegs, and things 23 24 like that, and limiting the elevation, but 25 anything can be done, certainly.

MR. SILVESTRI: One other follow-up, if Z I could refer you to figure 9d, "d" as in "delta." And looking at what you have for a rendering of the tower, are those cross braces that are below the top? There's like two of them that are there.

6 THE WITNESS (DeSantis): Certainly, 7 yes. Those were -- and I worked with Mr. Allen on 8 this. They look a little more dark than just 9 above the tree line, but below the concealed 10 structure there's two horizontal, it is cross 11 bracing.

12 So when you look at a four-legged tower 13 that's designed to emulate a fire tower structure, typically fire tower structures have climbable, 14 15 walkable stairs; not even climbable, walkable 16 stairs, incline stairs with a landing where you 17 double back, make 180-degree turn, and climb up, 18 so they're almost platforms. This simulation was done to represent that type of scenario. 19 20 Otherwise, it's a self-support tower with a cube 21 on top.

22 MR. SILVESTRI: And you mentioned 23 earlier that if there was another carrier coming 24 in, the location would be more on the legs of the 25 structure, as opposed to the cross bracing. Would 1 that be correct?

THE WITNESS (DeSantis): Legs or cross 2 bracing, a structural member. The cross bracing 3 in this instance is the structural member. 4 It's 5 part of the design. Again, referencing back to the site that I worked on in New Hampshire, it 6 was -- obviously, the future carriers may have 7 8 different coverage objectives, so they may not be 9 pointing antennas in the same direction, certainly 10 providing different challenges that way, but with mounting brackets that can be overcome. 11 12 THE WITNESS (Ruzzo): I just want to 13 expand on that. It wouldn't be mounting just to

14 the legs. It would be like your self-support 15 array across the face or off of a leg. So it 16 would be a full array. It would just be off of 17 that.

18 They wouldn't be looking to attach a single antenna. So, once again, we wouldn't want 19 20 to limit them, but you do have the whole face to run a horizontal across those members and mount 21 their antennas across the face. So you would 22 start to see more of that what looks to be open 23 24 area filled in with antennas for each of the 25 future collocators as you go down. So it would

look really like a self-support structure. I
 mean, that's essentially what this is, a
 four-legged self-support structure, or lattice
 towers, we call them, with just that top section
 being stealth.
 MR. SILVESTRI: Thank you.

7 Mr. DeSantis, I want to stay with you for a moment. Going back to drawing EC2 of the 8 revised access road, I'm not sure if I heard 9 10 correctly, so I'm going to ask this: With the two walls that you're proposing there and the drainage 11 12 aspect of it, did I hear correctly that you're 13 designing it that way to avoid having stormwater go over the wall? Did I hear that correct? 14

THE WITNESS (DeSantis): Partially.
 MR. SILVESTRI: Partially. Could you
 clarify that?

18 THE WITNESS (DeSantis): I certainly So the original question, my response with 19 can. 20 the water going over the wall was in reference to the swales to the east. So there would be a swale 21 22 on the right-most page on the high side of the 23 wall. That swale would then collect any runoff 24 water rather than it overtop the wall and get to 25 the swale at the bottom adjacent to the drive.

1 MR. SILVESTRI: Okay. Then with that 2 proposed plan could the stormwater undermine the 3 walls?

THE WITNESS (DeSantis): Certainly 4 5 whenever a retaining wall is introduced, stormwater and water is always of concern. 6 The 7 retaining wall system that we looked at for this 8 deployment would be a modular precast stacked 9 block, and there are manufacturer specifications about installing a drain tile in there to get any 10 water behind the wall diverted away from back 11 12 pressure on that wall.

MR. SILVESTRI: Because with both discussions about water possibly going over the wall, hence the design or, again, with the undermining that I brought up, it almost sounds like the volume of stormwater coming down is going to be pretty high, that your flow rate is going to be pretty high.

THE WITNESS (DeSantis): So we did not complete full calculations for flow rates. This was based on experience and just general practice of having a wall. The way that the slope of this site is, it's generally we're down the fall line with the gradient. We wanted to ensure that we could capture any sort of water and slow it as
 much as we can, thus the riprap.

3 MR. SILVESTRI: And the water is going 4 to come down eventually to the existing driveway, 5 if you will. What happens then?

THE WITNESS (DeSantis): 6 So our 7 intention there would be that there would be no 8 change from what happens existing. Obviously, 9 we're adding a gravel drive, so that changes some of the characteristics of the water and the way it 10 infiltrates. But the purpose or the intent would 11 be to sheet flow across the drive. 12 There are no 13 culverts or any associated swales that cross that existing drive at that location, certainly. 14

MR. SILVESTRI: So sheet flow would bein a northerly direction?

THE WITNESS (DeSantis): 17 Yes. 18 MR. SILVESTRI: Okay. As opposed to taking a right-hand turn and going down the 19 driveway to the east? 20 THE WITNESS (DeSantis): Correct. 21 22 MR. SILVESTRI: Let me stay on the 23 existing driveway, if you will. At our last 24 hearing we had discussions about the utility

kind of leaned towards undergrounding, but there 1 still seemed to be some uncertainty at that point. 2 So the question I'll pose to you is 3 have you thought further about undergrounding? 4 THE WITNESS (Ruzzo): We are 5 maintaining the underground design at this time. 6 Both for purposes of, you know, keeping --7 minimizing any additional clearing that would be 8 9 required for the overhead poles, as well as 10 reliability and hardening of sites with any, you know, potential of, you know, limbs coming down 11 12 and taking out the lines. 13 So, you know, it's always our intent to minimize any opportunities for the need for 14 15 generator with power outages from the street in with the utility company, and the best design for 16 17 that, like any development in a neighborhood them 18 going underground minimizes the line work that would be required atop, or potential damage to 19 20 those lines by any, you know, collateral damage to trees, anything like that. So we are staying with 21 the underground design at this time with 22 23 Eversource.

24 MR. SILVESTRI: And with that, I wasn't 25 quite sure if you're proposing that you're going

1 to be in the middle of the existing driveway, on
2 one of the sides. And again, the issue came up
3 that you have a couple culverts that you're going
4 to cross, and I wasn't quite sure at that time
5 what was going to be done to try to get there.

6 THE WITNESS (DeSantis): Certainly. So 7 I worked with Mr. McManus here in regards to those 8 wetland crossings with the culvert crossings. 9 With the intention of going underground from a 10 high level, the overall design would be, where 11 possible, put the utilities adjacent to the 12 existing access drive.

13 Now, in the instances where we have a culvert crossing, or something like that, the 14 15 idea -- the proposed idea would be to veer off 16 from the shoulder, for lack of a better term, turn 17 into the existing drive, turn/jog into the 18 existing drive, cross over any culvert pipe, and then jog back out to get back to the shoulder 19 20 side. MR. SILVESTRI: I think I've got that. 21 22 Okay. All right. Thank you. 23 Thank you, Mr. Chairman. 24 Mr. Edelson. THE CHAIRMAN: 25 MR. EDELSON: I wanted to come back to

the monopine. And when this came up at the other hearing, I realize now I probably had a bias against the monopine because I had a perception of what these really were. And seeing some of these pictures, I'm realizing maybe I need to think about this a little more.

So you've talked about the installation scosts. From the standpoint of maintenance and repair, are there additional costs to taking care of a tower if it's a monopine versus a monopole? THE WITNESS (Ruzzo): Certainly. MR. EDELSON: Can you describe what those --

14 THE WITNESS (Ruzzo): Those accessory 15 limbs, they have a life. They do, you know, wear 16 differently than steel, you know, because they are 17 ancillary structures that are not steel. So there 18 is, you know -- they are definitely better than where they started when the industry came out, and 19 20 each manufacturer has a pretty good handle on it now, I would say. And depending on the density of 21 22 these limbs, you know, how dense that limb is with the needles, per se, is how that, you know, wears 23 24 and eventually may require replacement down the 25 road. There's no safety issue associated because

1 it's attached, but it's still a solid structural 2 member, but they do in time, you know, require 3 replacement.

MR. EDELSON: That's a really good 4 But I was thinking more in terms of the 5 point. people going up there, and if there's a problem 6 7 with an antenna, your access to that. Again, I 8 don't know the interior, but it almost looked like 9 the difference between skinning up a pole versus climbing a tree with all kinds of things to get 10 around and just more complex that way. I don't 11 12 know if I'm making it into a bigger issue than it is as far as maintenance. 13

14 THE WITNESS (Ruzzo): To your point, 15 Mr. Edelson. I had mentioned the man lift being 16 required in some installations because of the 17 challenge, where on a clean monopole, you can 18 hoist a sector straight up, and you're making your 19 attachment with a gin pole on the top.

20 On this, you may need to get outside 21 the structure with another vehicle, hoist it from 22 there, and bring it into the structure because you 23 have all these additional -- imagine a tower that 24 was fully loaded with carriers. That's 25 essentially what you're modeling with a monopine now. So you're not bringing it straight up the
 structure; you're bringing it into the structure.
 So there are additional costs for each of the
 carriers to attach or maintain or change out their
 equipment. They're not always traversable just by
 climbing pegs.

7 MR. EDELSON: I have another question 8 or two, but I'm going to come back at some point.

9 We need to think about the life cycle 10 costs. I think what you presented before were the 11 upfront costs, the, whatever, \$68,000 more, but I 12 think you should always be concerned with the life 13 cycle costs because that's what eventually you 14 need to recoup.

What about in terms of demolition at the end of the life of this? There are additional costs to demolish and remove because of the nature of a monopine versus a monopole, or you think that's pretty much a wash?

THE WITNESS (Ruzzo): You know, there's an additional cost for removal, just because there are additional appurtenances on the structure itself. Again, we would assimilate it. Each of the carriers would remove their own equipment. We would remove anything associated with the structure itself. So obviously there would be
 more removals.

MR. EDELSON: Now, going back to that, 3 I don't have the date right in front of me, but 4 5 obviously the town voted unanimously to say we would like a monopine. I think they were pretty 6 7 clear about that. I guess I would just say I'm 8 disappointed that, in order for us to make a 9 decision, as Bob was saying, trying to get at the 10 cost difference. It's one thing if it's another \$5,000; it's another thing if it's doubling the 11 12 costs. But I would have thought you would have 13 had a much more precise analysis that says thank you very much, Town of Glastonbury, for voting 14 15 unanimously towards this, but this is what it 16 really means, this is the difference between going with a monopole, X is what it's going to cost to 17 18 basically build, install, maintain and demolish versus a monopine to build, install, maintain and 19 demolish. 20

And that's the comparison that I would like to still see done so that we know that if we come back -- I'm still the newbie here -- but come back and say we think it should be a monopine, we know what we're really asking you to do and what

the implication of that is. So I think I'd like 1 to see that done. 2 3 THE WITNESS (Ruzzo): I can certainly expand on the estimates I have provided. 4 Those 5 are pretty fair estimates, and we've done a few of these. 6 7 MR. EDELSON: Upfront costs. 8 THE WITNESS (Ruzzo): Upfront costs. 9 THE CHAIRMAN: The problem is, we're 10 closing the hearing today so --11 MR. EDELSON: Oh. Good for one hour 12 more, or whatever. 13 THE WITNESS (Ruzzo): But, I mean, I'm fairly comfortable with what I presented you for 14 15 the upfront costs. The maintenance and the removal costs are in addition, and those are 16 significant costs on a fairly significant, you 17 18 know, capital investment already. 19 And, yeah, we did provide those to the town on the 2nd. We have provided the photo sims, 20 but we haven't seen any additional response, I 21 22 don't believe, correct, from the town, nor are 23 they here today? 24 MR. LAUB: No. 25 MR. EDELSON: Okay. I think that's my

1 concern and my question.

2 THE CHAIRMAN: Mr. Hannon. 3 MR. HANNON: Thank you, Mr. Chairman. I do have a few questions. I want to focus on the 4 road, the walls, the drainage. Just so that I'm 5 looking at this correctly, it looks as though the 6 7 modified road layout, you have shifted the road 8 alignment close to the road coming in a little bit 9 to the east with the design, so therefore the 10 actual first portion of the driveway is a little bit steeper than what was originally proposed? 11 Ι just want to make sure I'm looking at this right. 12 13 I'm using the topography provided. THE WITNESS (DeSantis): Certainly. 14 In 15 looking at the two, the alignment of the first 60, 16 70ish or so feet has adjusted a little bit to the -- to become a little less perpendicular is 17 18 probably the best way to put it. 19 MR. HANNON: Okay. That's fine. Ι 20 just wanted to make sure. So I think what that does is it may make that portion of the drive 21 22 slope a little bit greater, but you're picking that up on the back end of the drive. 23 So, in 24 essence, it's still going to be roughly 10, 10.3

25 percent slope from start to finish?

1 THE WITNESS (DeSantis): Correct. MR. HANNON: In terms of the retaining 2 wall that you're looking at, in particular the 3 retaining wall on the east side, at least I think 4 that's the north to the right --5 THE WITNESS (McManus): 6 Yes. 7 MR. HANNON: -- I'm looking for the north, but I don't see it anywhere. 8 9 THE WITNESS (McManus): Yes. 10 MR. HANNON: Can you go into a little more detail in terms of the design of the wall? 11 In particular, I'm concerned about the foundation 12 13 of the wall. So can you give me a better understanding of the division of the --14 15 THE WITNESS (DeSantis): Certainly. So the intent here -- the manufacturing name escapes 16 I believe it may be Stone Strong, something 17 me. 18 similar to that effect, but they are modular precast blocks. They have a multitude of finishes 19 20 to them. As far as the foundation, or the base of that goes, it all depends on the elevation of the 21 wall. In installations for this manufacturer that 22 we conceptualize, it was, I believe, a 12 inch 23 24 gravel base below that, and then the stacked with 25 a little bit of layback angle as it goes up in

elevation. Depending on the curvature of the
 wall, the length of the block or the model of the
 block is chosen, as appropriate, so we can get
 that radius of that wall.

5 MR. HANNON: Here's my issue. Because on the original application on Z6, you have a 6 typical conduit trench detail, and you've got 48 7 inches as the typical to the top of the conduit. 8 What you're showing in these designs is you're 9 10 showing the electric and telecommunication line going pretty much parallel to the retaining wall. 11 But if you've got a retaining wall that's about, 12 13 say, 12 inches of gravel and it's a little bit below the roadway, or the ground, and you have to 14 15 go in and do any repair work on this electric 16 line, you've got a problem because you're going down and you're actually going to be undercutting 17 18 the wall and the base.

19 So I guess my question is, has any 20 thought been given to where the starting point of 21 this wall is at the southern-most point coming 22 above ground and running the conduit on the wall 23 itself, so that if there has to be any type of 24 repair work, you don't have to go in and rip up 25 the swale thereby undercutting the wall, which I 1 think would make life a little bit safer for 2 everybody?

THE WITNESS (DeSantis): Certainly, that is a very valid point, and it's something that we could certainly consider. You know, another option may be maybe in that section put the utilities in the drive just to get them, as you had mentioned --

9 MR. HANNON: I'm just looking at, I 10 don't think you want to put the line in a swale 11 where, if you have to go in and do some work in 12 that area, you're going to start undercutting the 13 base of that wall and thereby making that wall 14 unstable, possibly collapsing. Why take the risk?

15THE WITNESS (DeSantis): It's an16unnecessary risk, certainly.

17MR. HANNON: Okay. Other than that,18that's all I have.

THE CHAIRMAN: Mr. Lynch.

19

20 MR. LYNCH: Thank you, Mr. Chairman.

21 Before I get into the monopine, I want 22 to go back to at our first hearing a couple of 23 questions I didn't get to. And I'll just 24 reference them rather than give you -- one of them 25 had to do with the Elks Club, which you looked at

and kind of, you know, decided that it didn't fit 1 your need. But my question on the Elks Club is 2 In the back of the property is a shooting 3 this: range for rifle, long guns and pistols. 4 Is that a 5 concern of yours? THE WITNESS (Bruttomesso): For this 6 7 current site you're talking about? 8 MR. LYNCH: Pardon? The current site. 9 THE WITNESS (Bruttomesso): To answer 10 your question, the shooting, yes, the owners of that property use it for a shooting range. 11 12 They're shooting away from the tower. 13 MR. LYNCH: All right. That's all I wanted to know. 14 15 THE WITNESS (Bruttomesso): Ι 16 understand. Great question. 17 MR. LYNCH: And on the back-up propane 18 generator or back-up fuel, from what I understand from the gas people that come into our office, 19 20 during this cold weather the regulators on the tanks can freeze up and either prohibit or greatly 21 reduce the fuel flow. Is there any -- rather than 22 23 normal maintenance, during cold weather my 24 question is, will you have somebody going out and 25 checking on this regulator to make sure it's

1 working properly?

2	THE WITNESS (Ruzzo): Well, it is
3	T-Mobile's, but, generally speaking, they have
4	technicians that are familiar with all their
5	equipment, and they do go out to the site
6	regularly.
7	MR. LYNCH: My thing is during like
8	we just had a cold spell. Would that be something
9	that would initiate an extra visit?
10	THE WITNESS (Ruzzo): I would assume
11	that they would get one of their site you know,
12	one of their specialists who deal with the propane
13	directly. So either the fueling company would be
14	someone who would also have a maintenance
15	contract, or someone like that specializing.
16	MR. LYNCH: And my follow-up question
17	is, during this cold spell recently, the propane
18	gas people had a shortage of propane. So knowing
19	this, would T-Mobile, or whoever is doing the
20	regulating, also be aware of this and be able to
21	order in advance, you know, fuel?
22	THE WITNESS (Ruzzo): I mean, it's not
23	something that we use as a regular fuel source.
24	It's a back-up DC generating fuel source. And I
25	believe some of those issues were more delivery

1 than actual supply.

I understood it was both. 2 MR. LYNCH: THE WITNESS (Ruzzo): 3 Okay. MR. LYNCH: Subject to check. 4 5 THE WITNESS (Ruzzo): But they have contracts that are well established, and the 6 7 volume that they use is far less than, you know, 8 perhaps a regular user of propane would be anyway. 9 So it's less of a concern, I believe. 10 MR. LYNCH: Now I'm going to come back 11 to the monopine. 12 THE WITNESS (Ruzzo): Sure. First, let me eliminate --13 MR. LYNCH: I was the one that brought up the fire tower 14 15 because I know that they do exist. But your explanation of cost and being able to add 16 additional carriers kind of lead me away from 17 18 that. 19 Now I'll come back to the monopine. The town said that they would like to go onto the 20 tower. Now, my question involving the monopine 21 is, if they come on with -- you don't know what 22 23 they're going to do. I'll give you that. But if 24 they propose whips and some type of microwave 25 dish, how would you put this within a monopine for 1 them?

THE WITNESS (Ruzzo): Each installation 2 has its own challenges. A whip is 3 omnidirectional, so it's cake and eat it too. 4 But 5 we would potentially collocate them below the limb section. 6 7 MR. LYNCH: That would include the 8 whip, or would the whip go on top? 9 THE WITNESS (Ruzzo): No, that would be -- I mean, primarily, you know, we're already, you 10 know, looking to stealth as many -- if that was 11 the decision that this stealth is a better visual, 12 13 you know, impacting solution, those carrier concealed arrays would be within that limb 14 15 sections. You know, if they required to be at the 16 top, those whips would stick above the limbs. MR. LYNCH: That's where I was going, 17 18 yes. 19 THE WITNESS (Ruzzo): I understand. 20 And we had the same. When we saw what their potential requirements would be, you know, we had 21 22 discussed in the past three whips or two whips being below, you know, would be able to cover the 23 24 same area. When you see three whips, that's what 25 you think, they're on standoffs at a lower

elevation, which is our noncommercial use, which is where we gain our revenue. But if they were looking for a microwave op, you know, and all those other items, you know, the specialists who install the microwaves for the carriers and do their ops, you know, need line of sight as well.

7 So each one of those has another 8 component to it. Not knowing exactly what they 9 need, but seeing the pieces laid out on the letter 10 we just received, you know, you envision what they're looking for, and you see the potential 11 with you want this stealth structure, but then you 12 13 want to be able to put public safety on there. And we can make accommodations for that. 14 It would 15 just have to be in a space that would be suitable 16 for their need.

MR. LYNCH: That's where I was going. You went right into it. Especially if they do need a microwave line of sight, would there have to be an opening within the tree to accommodate that?

THE WITNESS (DeSantis): So, if I may interject here. I have done an installation. It was a commercial tower, wireless telecommunications tower, that a municipal --

1 local municipal government collocated on, and they wanted to deploy a microwave dish. Their protocol 2 was a little bigger installation, for lack of a 3 way to quantify it, than what I've seen in others, 4 5 and it was a large microwave dish. And looking at the aesthetics standing in the parking lot, seeing 6 7 a monopine tower with a large circle that's clearly visible behind any branching that could 8 9 get installed there because it wasn't out front in the original design, so the branching design 10 wasn't done to conceal that. It was almost as an 11 12 afterthought. 13 MR. LYNCH: Where I'm actually going with all of this is that, if you had a standard 14 15 monopole, you'd have none of these problems. THE WITNESS (DeSantis): Correct. 16 17 MR. LYNCH: Now, the town is adamant in their letter and in the Hartford Courant and the 18 Citizen and the Journal Inquirer, the local 19 20 newspapers, about a stealth monopine. Now, having lived in Glastonbury and worked there, I know 21 what's going to happen the minute the citizens see 22 this tree. As H.L. Mencken said, "Be careful what 23 24 you wish for." 25 Also, as far as -- now, because I have

lived there and traveled Route 2 all the time, 1 Mr. Heffernan, I know there are dead spots on 2 Route 2 between Exit 10 and 13, so I assume that 3 you would be getting other carriers to come along. 4 5 Now, it would be much easier for them on a standard monopole to go up or down. And, you 6 7 know, if they had to go up on a monopine, and the 8 FCC says we've got to let them go up, what happens 9 then? 10 THE WITNESS (Ruzzo): So if they were going to go 6409 to increase the height of the 11 12 tower, is that what you're asking me? 13 MR. LYNCH: Yes. THE WITNESS (Ruzzo): Whether it be 20 14 15 percent or 20 feet or 10 percent, those costs to 16 modify the structure would be significant, both in the structure itself and the foundation. Much 17 18 easier in a --19 MR. LYNCH: Standard. 20 THE WITNESS (Ruzzo): -- standard monopole where we could, you know, sleeve or 21 22 flange the top of the structure and add an extension, as needed. And the loads are 23 24 significantly less on a standard monopole to make 25 that modification as well.

1 MR. LYNCH: And that leads me to 2 another question I just thought of as far as the 3 load on the tower during a snowstorm. What would 4 happen to all these branches?

5 THE WITNESS (Ruzzo): These aren't white pines; they're not going to snap. To your 6 7 point, it does weather like anything. It's more 8 ice build up, and all of that gets accommodated 9 within the design when we consider half-inch ice 10 and wind speeds, and all this other kind of stuff, which is why the foundations and the structure 11 itself are significantly greater, you know, to 12 13 accommodate for the additional loading. Here we are in New England. We have to accommodate for, 14 15 you know --

MR. LYNCH: Understood.

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17 And my last question has to do with 18 visibility. As I look at your simulation on the pine tree, monopine, you know, it -- I asked about 19 the canopy earlier -- this is twice as high as the 20 existing trees. Elon Musk, it looks like one of 21 22 his rockets taking off. What is the visibility? How far away can you actually see this thing, I 23 24 quess is what I'm asking?

THE WITNESS (Allen):

That's a

1 difficult question to answer without having evaluated. But certainly a monopine, that's going 2 to have a larger visible profile. It's going to 3 be wider, and the visible profile is going to be 4 much longer or go down to the ground lower than 5 just the antennas that they're meant to conceal. 6 7 Because the point is to make it look like a tree, so you have to bring the branching down certainly 8 below the antenna. So it's going to be a larger 9 10 profile, which is going to make it more visible. It's going to be darker in color than a galvanized 11 12 structure.

So if you look at the simulations that 13 I provided for two viewpoints, in both locations 14 15 it's visible against the background of sky where, if you were designing for stealth from those 16 17 locations, a light color would be the way to go. 18 MR. LYNCH: As I look at your simulation, I came to the same conclusion. 19 And my 20 last question on the monopine is, I've seen some monopines where they have the fake bark, and it 21 22 actually goes all the way down to the bottom. Now, would this be the same way, or is it going to 23 24 stop when it reaches the canopy? 25 THE WITNESS (Ruzzo): There is no

proposed bark on this tree at this time. We're 1 just showing the limbs. 2 3 MR. LYNCH: All right. Thank you, 4 Mr. Chairman. 5 THE CHAIRMAN: Mr. Hannon. MR. HANNON: I just have a follow-up on 6 7 a question that Mr. Lynch was talking about. This 8 site would be monitored electronically, correct, 9 there's nobody there to man it 24/7? THE WITNESS (Ruzzo): Correct. 10 It's an unmanned facility. 11 12 MR. HANNON: Okay. So the issue that 13 Mr. Lynch brought up about potential problems with the generator, is that also something that ties 14 15 into the electronic monitoring, or is that 16 something that would be totally isolated from that? 17 18 THE WITNESS (Ruzzo): Typically their back-up systems are remotely monitored and 19 20 operated. MR. HANNON: So if there was a problem 21 22 with the regulator, then that's something that 23 would likely show up on a screen? 24 THE WITNESS (Ruzzo): I can't 25 specifically speak to a physical valve, but the

system itself, if it wasn't operational, would 1 probably send an alarm to their NOC. Their NOC 2 would deploy a specialist to investigate. 3 MR. HANNON: Thank you. That's all I 4 5 have. MR. LAUB: For the record, can you 6 7 clarify "NOC"? 8 THE WITNESS (Ruzzo): Network 9 Operations Center, yes. Sorry. 10 THE CHAIRMAN: All right. MR. LAUB: I'm sorry, Mr. Chairman. 11 12 Did you have something to add? 13 THE WITNESS (Berezowsky): Yes. I have two points of clarification, if I may? One is 14 15 that I checked, and we do have the determination from the FAA. It's dated October 18, 2016 for 160 16 17 foot tower. And I can get the study number. I do 18 believe I saw it, but I was able to find it in my 19 records. So we do have that. And also a point of clarification in 20 terms of the migratory bird concern. We did 21 22 focus, obviously, on it's an unlit tower currently, as proposed. It is not a guyed tower. 23 24 It is under the height restrictions that are 25 generally thought to have the largest impact to

migratory birds. Also, though, it's not near any
 important bird areas, nor any wetlands, at least
 for the tower portion. So those are the primary
 concerns.

5 However, the FCC is cognizant of the fact that no tower can be perfectly sited for 6 migratory birds, so they've implemented a system 7 8 as part of the ASR registration process where we 9 post a local and national notice to afford the 10 public the opportunity to provide any concerns that they may have specifically in regards to 11 12 migratory birds. And those notices were posted on 13 October 13th and 20th, 2016, respectively, and apparently nobody responded to the FCC because 14 15 they cleared the ASR registration.

THE CHAIRMAN: Okay. I have a couple 16 17 of questions. The issue of the back-up 18 generators. Obviously, I understand if you don't have another user ready to go, you can't -- it's a 19 little bit hard to talk about sharing a generator. 20 But I was wondering, in the case of the 21 22 municipality, if -- and of course this is 23 predicated on, well, if the Council were to 24 approve this. Obviously, we have a D&M phase. 25 And if the town by that time were to make it clear what they wanted, they wanted to go in, would you
 at least consider having a generator for use of
 both your back-up and for the town?

THE WITNESS (Ruzzo): With the use that 4 5 currently T-Mobile is proposing for their back-up generator as a DC back-up, and no other commercial 6 7 carriers presently, you know, requesting use of the tower or back-up, and not knowing exactly what 8 the need or requirement of, we don't have any plan 9 10 for a shared generator at this time. Once we had another tenant, perhaps, that would be -- you 11 know, it kind of goes into the capital costs of 12 13 the site and the operation and the maintenance of the site. And right now our focus is on our prime 14 15 tenant who has a need for their generator to handle their load, which is minimal at this point. 16 17 So introducing a larger shared generator doesn't really at this point seem, I don't know, something 18 we would entertain at this point. 19

THE CHAIRMAN: That wasn't exactly my question. My question, I understand everything you said, but I'm talking about the town. And if it's part of what they need, and they seem to really want to participate, they needed a back-up generator, and they could provide the specs, well, 1 let's just say prior to the D&M, or at some point soon, would you consider a shared generator for 2 use of the town and T-Mobile, as opposed to -- and 3 I don't even know whether a generator is required 4 for what the town wants, but I'm at this point 5 just asking the question. I'm asking whether you 6 7 would explore it. I'm not asking for a 8 definitive --

9 THE WITNESS (Ruzzo): At this time we 10 don't have it in our plan. We could explore it further, but it would -- we would have to look at 11 the costs associated with that. But right now 12 T-Mobile has their solution. And the town 13 14 solution, although it's been proposed, and they 15 might require a generator, we don't have a plan at 16 this time to place a shared generator on site.

17 THE CHAIRMAN: Okay. I don't want to over-belabor the subject, which seems to be very 18 dear to the heart of this Council. 19 I will say 20 that, as opposed to some members that would want to cut the tree down before it even gets built, I 21 don't feel quite as strongly about that. And I am 22 normally -- well, quite concerned about the 23 24 request of the town, the unanimous request of the 25 town. And I think as a general policy, the

Council, where possible, tries to take into 1 account the concerns of whether it's the residents 2 3 or particularly the municipality and not just ignore them. 4 With that said, I'm somewhat dismayed 5 that the town, which my understanding was supposed 6 7 to participate, which they did in the prior 8 hearing, was supposed to participate this afternoon, and also presumably had an 9 opportunity -- or let me -- well, okay, that's me 10 talking and not asking the question. 11 But did this information you provided 12 13 to us, including these simulations, were they provided to the town, and when were they provided 14 15 to the town? The simulations included and 16 MR. LAUB: the entire supplemental was submitted to 17 18 Mr. Johnson on February 2nd by email. 19 THE CHAIRMAN: February 2nd by email. 20 MR. LAUB: Yes. The same day it was submitted to the Council. 21 22 THE CHAIRMAN: So that's --23 MR. LAUB: Again, there's a little bit of a -- just to clarify, Mr. Chairman. 24 So the 25 record, their letter, was dated January 29th. It

1 wasn't received in my office until last Monday or 2 Tuesday. I wasn't in the office. But that's when 3 I found the letter in my office because it came by 4 regular mail. It wasn't emailed to me. So his 5 letter was sent, then our submission was made, and 6 then I received his letter earlier this week.

7 THE CHAIRMAN: No, no. The important 8 thing is they, the town, did not either come to 9 the hearing so they could present their views -- I 10 mean, they may have changed their mind -- or 11 send -- and maybe it's a letter that's still in 12 the mail that none of us have gotten. I think 13 that's disappointing.

14 The other question is, I mean, you've 15 done a very good job of giving us all the reasons 16 why you don't think a monopine makes sense, even 17 from the applicant's standpoint, but we do have in 18 this country monopines, and monopines are shared, and monopines do have whip antennas. So all of 19 20 these issues that you raise, which I understand may involve increased costs, are, from a technical 21 22 standpoint, can and have been done. Am I correct 23 in that? 24 THE WITNESS (Ruzzo): Yes.

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THE CHAIRMAN: Okay. Have any of the

individuals that represent been involved in 1 monopine construction? 2 3 THE WITNESS (DeSantis): Monopine construction, yes, I have. 4 5 THE CHAIRMAN: I just wonder whether 6 there was any experience. I'm pretty sure where 7 the Council is going. But, you know, experience is also a factor, as well as things such as cost. 8 9 I don't have any other questions. Mr. Silvestri. 10 11 MR. SILVESTRI: Thank you, Mr. Chairman. 12 13 Just a quick follow-up on the shared generator question. A shared generator, I would 14 15 think, would be a larger generator? 16 THE WITNESS (Ruzzo): Correct. MR. SILVESTRI: So would a larger 17 18 generator mandate that you get a larger supply of fuel stored on site? 19 THE WITNESS (Ruzzo): Correct. 20 I mean, typically that would be the case because now 21 22 you're sharing -- you know, you wouldn't incrementally deploy a shared generator that would 23 24 be for what your current use is. You would put 25 out there what would be your future maximum

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1 potential use and size it to that, so that has fuel, noise, environmental concerns all wrapped 2 into that, what do each of the carriers use for 3 fuel type in their typical generators, what is the 4 5 use for that. Each one may have a different need and a draw off of that, if they have a conditioned 6 7 space, or if they have outdoor equipment, different needs and draws off of that generator. 8 Each would have to agree to contributing to that 9 10 shared generator from a leasing standpoint, a contribution standpoint. 11

So it would be feasible to do if the 12 13 tenants that we were speaking to were amenable to 14 it. But also along with that, you know, each one 15 of those uses has a different draw on it from a 16 maintenance standpoint as well versus several -- I 17 understand, you know, whether it's a space 18 consideration for multiple -- or multiple concerns over location for what the impact of that 19 20 generator would be, but I'm just, you know, wanting to make sure. And I understand that 21 22 shared generators have a single spot and, you know, that's the one point, but typically they're 23 24 found to be louder for the surrounding areas if 25 it's larger. And it would be firing up, rather

than multiple small ones, you are just firing up a 1 large one more frequently. That would be it. 2 MR. SILVESTRI: So we go back to my 3 question, larger generator, larger fuel? 4 5 THE WITNESS (Ruzzo): Yes. MR. SILVESTRI: Just one other guick 6 7 one on that. Do you have any sites within Connecticut that have a shared generator? 8 9 THE WITNESS (Ruzzo): No, we don't. 10 MR. SILVESTRI: Okay. Thank you, Mr. Chairman. 11 12 THE CHAIRMAN: Mr. Lynch. 13 MR. LYNCH: Mr. Heffernan, I've got a question for you that has absolutely nothing to do 14 15 with this application, and it's my own curious 16 intrinsic interest on what your opinion may be to the governor getting involved in developing 5G. 17 18 THE WITNESS (Heffernan): I guess I better word that carefully. I don't know who's 19 20 listening. THE CHAIRMAN: Which governor is that? 21 22 MR. LYNCH: The United States governor, 23 or maybe China. Who knows? 24 THE WITNESS (Heffernan): I don't know 25 that I really have an opinion on that. 5G is

still, while there's a lot of talk about it, I 1 think it's still a little while before we see a 2 mass deployment of it. The government getting 3 involved, I don't know. I guess I don't know 4 enough about what their involvement is and what 5 they're trying to gauge with it. 6 7 MR. LYNCH: From what I understand, 8 they want to take it over and develop it and take 9 it away from the carriers. THE WITNESS (Bruttomesso): Can I 10 answer that? Can the government afford it right 11 12 now? That's the answer. And they already backed 13 away from that statement after they made that statement on Sunday. 14 15 MR. LYNCH: I'm going to be out of work 16 at 12 o'clock tonight anyhow so --17 (Laughter.) 18 THE WITNESS (Heffernan): I guess the short answer is, I don't have a professional 19 20 opinion on that because I haven't really followed much -- I haven't given it much thought. 21 MR. LYNCH: I was just curious. 22 That's 23 all. Thank you. 24 Thank you, Mr. Chairman. 25 THE CHAIRMAN: You're welcome.

just so we have it on the record. 2 So we're now going to proceed with the 3 appearance of the only other party, the Town of 4 5 Glastonbury. So before I ask the attorney here to swear in the witness, is there anybody here 6 7 representing the Town of Glastonbury? 8 (No response.) 9 THE CHAIRMAN: Okay. I just want to 10 make sure we had that on the record. Thank you. 11 So before closing the evidentiary 12 record of this matter, the Connecticut Siting 13 Council announces that briefs and proposed findings of fact may be filed with the Council by 14 15 any party no later than March 12th of this year.

I'm just going to go through the --

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16 The submission of briefs or proposed findings of 17 fact are not required by this Council, rather we 18 leave it to the choice of the parties.

Anyone who has not become a party, but who desires to make his or her views known to the Council, may file written statements with the Council within 30 days of the date hereof.

The Council will issue draft findings of fact, and thereafter the parties may identify errors or inconsistencies between the draft

findings of fact and the record; however, no new information, no new evidence, or argument, or reply briefs, without our permission, will be considered. Copies of the transcript of this hearing will be filed in the Glastonbury Town Clerk's Office. I hereby declare this hearing adjourned. Thank you all for your participation. And drive home safely. (Whereupon, the witnesses were excused, and the above proceedings were adjourned at 2:35 p.m.)

1	CERTIFICATE
2	I hereby certify that the foregoing 78 pages
3	are a complete and accurate computer-aided
4	transcription of my original stenotype notes taken
5	of the Council Meeting in Re: DOCKET NO. 478,
6	Eco-Site, Inc. and T-Mobile Northeast, LLC
7	application for a Certificate of Environmental
8	Compatibility and Public Need for the
9	construction, maintenance, and operation of a
10	telecommunications facility located at 63 Woodland
11	Street, Glastonbury, Connecticut, which was held
12	before ROBERT STEIN, Chairman, at the Connecticut
13	Siting Council, Ten Franklin Square, New Britain,
14	Connecticut, on February 8, 2018.
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17	Lie Wally
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19	Lisa L. Warner, L.S.R., 061
20	Court Reporter
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