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OLD SAYBROOK PUBLIC HEARING

THE PRESERVE SPECIAL EXCEPTION  
FOR OPEN SPACE SUBDIVISION

WEDNESDAY, NOVEMBER 10, 2004, 8:00 P.M.

OLD SAYBROOK MIDDLE SCHOOL  
60 SHEFFIELD STREET  
OLD SAYBROOK, CONNECTICUT

PLANNING COMMISSION MEMBERS PRESENT:

ROBERT MCINTYRE  
JANIS ESTY  
SALVATORE ARESKO  
RICHARD TIETJEN  
H. STUART HANES  
JUDITH GALLICCHIO  
BRYAN ZIELINSKI, RECORDING CLERK  
CHRISTINE NELSON, TOWN PLANNER  
MARK BRANSE, LEGAL COUNSEL  
JEFF JACOBSON, TOWN ENGINEER

1           CHAIRMAN MCINTYRE: It's eight o'clock. We'll  
2           open the public hearing. First order of business  
3           will be -- I just want to make a comment to the  
4           audience on how the proceedings are going to unfold.  
5           The first portion of the public hearing we let the  
6           applicant speak. Once the applicant has finished  
7           their presentation, then we open up the floor to the  
8           audience for those who are against or for The  
9           Preserve. After that time then I open it up to the  
10          board to ask questions of the applicant. During --  
11          when the floor is open, the applicant may or may not  
12          respond to your questions at that time. And the same  
13          thing if you ask a question of the board, we may or  
14          may not respond at that time. Just keep in mind we  
15          are listening to everything everyone is saying.

16                 At this time I would like to ask Christine --  
17          oh, Judy Gallicchio would like to make a statement.

18                 MS. GALLICCHIO: Thank you. Just for the  
19          record, I would like to state that I live on Pheasant  
20          Hill Lane, which is off of Ingham Road, about  
21          600 feet from the closest boundary of The Preserve.  
22          I do not, however, feel that that would preclude me  
23          from making a fair and impartial decision on this  
24          application.

25                 CHAIRMAN MCINTYRE: Thank you.

1 MR. BRANSE: Mr. Chairman.

2 CHAIRMAN MCINTYRE: Yes.

3 MR. BRANSE: For the record, Mark Branse. I  
4 would just ask if there is any party to this  
5 proceeding, and party includes specifically the  
6 applicant and the intervening party, whether there is  
7 any objection to the participation of Commissioner  
8 Gallicchio and if so why.

9 PUBLIC SPEAKER: Do you have a microphone? We  
10 can't hear you.

11 MR. BRANSE: For the record, I'm Mark Branse.  
12 And I'm just asking if there is any party or  
13 individual who objects to the participation of  
14 Commissioner Gallicchio. I note that Attorney  
15 Charles Rothenberger is present representing an  
16 intervening party and also Attorney Royston  
17 representing the applicant. And Commissioner  
18 Gallicchio has just disclosed the location of where  
19 she lives, which is approximately 600 feet from the  
20 boundary of the subject property. She has stated  
21 that she believes that she would not be impacted by  
22 this development and can participate objectively  
23 concerning the application. My question is if there  
24 is anyone who objects to her participation.

25 (No response.)

1           MR. BRANSE: I would note for the record that  
2 there is no objection. Thank you.

3           MR. ROYSTON: Attorney David Royston for the  
4 applicant. And we will state for the record that we  
5 have no objection to the participation of  
6 Mrs. Gallicchio on this application.

7           CHAIRMAN MCINTYRE: Thank you, Attorney Royston.  
8 Christine Nelson, town planner, do you have  
9 anything tonight to open up?

10          MS. NELSON: Yes. Mr. Chairman --

11          MR. ROTHENBERGER: I'm sorry. Just for the  
12 record, Charles Rothenberger for the intervening  
13 party, the Connecticut Fund for the Environment.  
14 I'll state on the record as well that we have no  
15 objection to your participation.

16          CHAIRMAN MCINTYRE: Thank you. Sorry about  
17 that. Okay.

18          MS. NELSON: Mr. Chairman, in your packets you  
19 received some correspondence with regard to this  
20 application as well as three pieces of correspondence  
21 which I handed out this evening, which would be  
22 Exhibit No. 51, a letter from BL Companies to J.  
23 Northrop, town planner in Old Saybrook -- I mean in  
24 Westbrook; Exhibit No. 52, a memorandum report from  
25 Christine Acosta, our enforcement officer. And I

1 would like to enter the minutes of November 3rd,  
2 2004 as Exhibit No. 53. And anything else would be  
3 numbered from that point on.

4 CHAIRMAN MCINTYRE: Did you say you gave us a  
5 number 52, also?

6 MS. NELSON: Yeah. Start with number 54,  
7 anything that comes in.

8 CHAIRMAN MCINTYRE: I don't see it. You didn't  
9 hand a copy of that out to us.

10 MS. NELSON: No. It should be right in front of  
11 you.

12 MR. HANES: This one.

13 CHAIRMAN MCINTYRE: Okay, thank you. Do you  
14 need this?

15 MS. NELSON: No.

16 CHAIRMAN MCINTYRE: Okay. At this time I would  
17 like to turn the proceedings over to Attorney  
18 Royston, the attorney for the applicant.

19 MR. ROYSTON: Mr. Chairman, first of all, I  
20 think my first duty is to check to make sure that all  
21 of the equipment works. This microphone I think  
22 barely works.

23 MR. BRANSE: This one is better.

24 MR. ROYSTON: I believe the handheld microphone  
25 works better.

1           First of all, I would like to again thank the  
2           commission on behalf of the applicant, River Sound  
3           Development LLC, for allowing this public hearing to  
4           be presented in two separate meetings, because the  
5           process is in fact a two-step process. One, the  
6           yield or conventional standard plan and secondly, the  
7           preliminary open space plan. It seems appropriate  
8           that this is the way to handle a presentation of the  
9           material in a thorough and organized sort of way.

10           Last week we were considering the conceptual  
11           standard plan, and at that meeting we received a  
12           number of comments in written form from consultants  
13           to the commission who had reviewed the application.  
14           And in fact, we have reviewed -- we have received  
15           tonight some additional review comments which relate  
16           to the conceptual standard subdivision plan. As we  
17           indicated last week, we would provide you a written  
18           response, a unified response to all the comments that  
19           we had received. Obviously, we have not included  
20           those which we have just received. But, again, as we  
21           did say at the last meeting, the applicant would  
22           agree to and consent to an extension of time of the  
23           public hearing, if that were required, in order to  
24           provide a full and complete review of all the  
25           comments and materials presented in connection with

1 the application.

2 What I would like to do first is, for the  
3 record, provide you with copies of that response.  
4 And if I can ask Attorney Branse to hold the  
5 microphone for a moment, I will give those to you.  
6 They are -- there are a number of pages to the  
7 volume, so I am just going to give enough for the  
8 commission and an additional one for the record.  
9 There are more which we will be happy to provide to  
10 your staff, but at this point we'll give them to the  
11 commission for the record.

12 As part of this response package, there are  
13 reduced copies of additional test flog mapping. And  
14 again, we will provide you with these maps. There  
15 are the reduced copies in those booklets, but I will  
16 submit the full -- full-scale set of these maps for  
17 the record. As you can understand I didn't want to  
18 carry about ten of those into the meeting.

19 We also indicated at the last meeting that we  
20 would provide you with 11-by-17 versions of the  
21 boards that have been submitted. We will wait until  
22 the end of the meeting, and then we can submit those  
23 for the record rather than take the time to do that  
24 now.

25 The last item which I would like to submit for

1 the record at this time, when we went over the list  
2 of exhibits that was provided to us which included  
3 all the items that were submitted plus correspondence  
4 to be received, we did note that there was not  
5 included a memorandum to the town planner from the  
6 first selectman with respect to their willingness and  
7 desire to accept the open space to the property if  
8 the project were approved. I think it's because it  
9 was dated before the application that it never got  
10 into your record, but I would like to submit that at  
11 this time.

12 MS. GALLICCHIO: Excuse me one second, a  
13 procedural. Mr. Chairman, where do you want all of  
14 these exhibits put?

15 MS. NELSON: I'll take them.

16 MS. GALLICCHIO: Thank you.

17 CHAIRMAN MCINTYRE: You're earning your money  
18 tonight.

19 Attorney Royston, anything of a small nature you  
20 can just pass that and we'll pass it down.

21 MR. ROYSTON: Thank you. The last thing, which  
22 really doesn't take too much, is just a listing of  
23 the people who are going to speak tonight. As I  
24 mentioned this public hearing is essentially for the  
25 commission to review our presentation, hear our



1 presentation of our preliminary open space  
2 subdivision plan. And under the regulation it's for  
3 the commission to determine whether that plan meets  
4 the open space qualifications, the open space goals  
5 of the regulation, and represents a sound method of  
6 the development of this property. That's the intent  
7 of the special exception, for you to take a look at  
8 that preliminary plan and make that determination.  
9 And for that purpose the people who will be  
10 presenting to you tonight are Robert Landino, the  
11 principal owner of the BL Companies, the project and  
12 engineering planning firm for this project; Randall  
13 Arendt, who is a planner. Further introductions will  
14 be given by Bob Landino. Michael Klein, biologist;  
15 Dr. Michael Klemens, ecology and vernal pools; Stuart  
16 Cohen, Ph.D., integrated turf and pest management;  
17 Arthur Hills, the golf course architect; and again to  
18 summarize Bob Landino.

19 So I am going to turn this over to Bob. We've  
20 tried to keep our presentation of this material,  
21 which is extensive, to no more than an hour and 45  
22 minutes in order to provide time for public comment.  
23 Bob.

24 MR. LANDINO: Thanks, Dave. Good evening. I'm  
25 going to briefly introduce the team and just give a

1 little background. I did give some of that in last  
2 week's public hearing, but what I would like to do is  
3 spend just a little bit of time talking about the  
4 speakers that were not present at last week's hearing  
5 and the speakers that were present but did not speak.

6 First, Randall Arendt is going to speak. And as  
7 we discussed last week, he's one of the preeminent  
8 planners of the planning and design that we are  
9 proposing this evening, which has many names and  
10 forms, but essentially the basic goals and objectives  
11 are to work with the natural terrain, to work with  
12 the biology of the site, to work with land forms on  
13 the site, and to the extent that the city deems  
14 possible, preserve as much of the existing land as  
15 possible and dedicate as open space and at the same  
16 time create a community that's functional, and  
17 viable, and successful. And Randall has written  
18 several books and is a widely recognized expert in  
19 the area of conservation subdivisions, and he will be  
20 speaking about the plan at the outset of this  
21 presentation.

22 Then Michael Klein will begin the discussion of  
23 the biology of the site and will talk about inland  
24 wetlands, watercourses, and wildlife. And Michael's  
25 firm, Environmental Planning Services, which also

1 includes one of the associates, Jim Cowen, will  
2 discuss all aspects of the site and talk about what  
3 work they have performed over the past several  
4 months, which includes extensive field investigations  
5 and an understanding of exactly what the biology of  
6 the site is and what the wetlands are, what their  
7 functionality of value is, and how it relates to the  
8 planning process.

9 And then we will ask Dr. Michael Klemens to  
10 speak. Dr. Klemens, in the world that we work in  
11 everyday, is widely considered the foremost expert in  
12 vernal pools. And one of the important objectives of  
13 our work over the past year, since we received the  
14 zoning approval last fall, was to truly understand  
15 the connection and the connectivity between vernal  
16 pools and the inland wetlands watercourse systems.  
17 And it's really gaining a complete understanding of  
18 the biodiversity on the site and how we could plan  
19 accordingly and to the extent possible develop that  
20 planning to minimize disturbance to biodiversity and  
21 preserve connectivity in a way of making sure that  
22 all forms of wildlife and plants are preserved and  
23 the impact of them is minimal during the planning and  
24 design process.

25 Following Dr. Klemens I will ask Dr. Stuart

1 Cohen. He will come up to speak. And Stuart is a  
2 biological toxicologist, as I mentioned last week,  
3 and has spent virtually his entire career  
4 understanding how to maintain turf in a way that  
5 minimizes the impact to the environment. And he's,  
6 again, an extensive expert, an extensive published  
7 expert in this area and will give a brief  
8 presentation on some of the concerns that are  
9 historically credible and understanding -- and  
10 understandable concerns about the potential negative  
11 impact of golf courses on adjacent environmental  
12 areas, sensitive areas. But Stuart's group has  
13 repeatedly demonstrated that if design is planned and  
14 implemented properly, that those traditional fears  
15 are unwarranted.

16 Then next will be Arthur Hills, who has -- for  
17 those of you that golf, has over a half a century of  
18 experience in the design of golf courses throughout  
19 the world. And he will work -- he will make a brief  
20 presentation and discuss the actual design of the  
21 course itself and also talk about how each hole  
22 relates to the environment and some of the discussion  
23 that you will hear prior to his presentation.

24 And then finally, I'll give a presentation of  
25 the open space plan itself and really talk about the

1 opportunity that exists when you look at what we  
2 would propose under existing zoning as described last  
3 week versus what we will describe this evening. We  
4 will try to demonstrate to the planning commission  
5 this evening that this is really a great opportunity  
6 to break all of the rules that -- all of the  
7 conventional subdivision rules that have plagued the  
8 implementation of sound planning principles which  
9 will be discussed through the evening. And hopefully  
10 by the time we discuss the plan, this commission will  
11 get a real sense that by thinking out of the box and  
12 by doing all of the things that each expert  
13 recommends and prescribes, that we can really build  
14 this land in a way that is economically successful  
15 and is culturally successful, but most importantly is  
16 environmentally successful.

17 So with that I would like to first introduce  
18 Randall, who will begin the planning discussion.

19 MR. ARENDT: Good evening. Am I audible  
20 everywhere in the room? My name is Randall Arendt,  
21 and I will be speaking largely about our approach to  
22 this project to design an environmentally sensitive  
23 development consistent with the courses that I teach  
24 around the country for the Urban Land Institute and  
25 The Conservation Fund.

1           Christine just passed out the latest issue of  
2           The Planning Commissioner's Journal. I'll try to get  
3           you a back number. I wrote an article -- several  
4           articles for the PCJ over the years. Last year I  
5           wrote an article specifically about this design  
6           approach, this planning approach, where we look at  
7           the land and have that really dictate the form of the  
8           development rather than the form of the development  
9           being dictated by cookie-cutter regulations that say  
10          so many feet of street frontage, so many square feet  
11          of lots, so many square feet of setback and all of  
12          those inhibiting factors.

13                 Last week I spoke at length about the  
14          conventional subdivision layout. The so-called yield  
15          plan which the town's ordinances require to  
16          demonstrate the baseline density permitted. As a  
17          buyer we spoke briefly about the kind of layout which  
18          the applicant proposes to build instead. Tonight  
19          I'll recap some of those thoughts and will comment on  
20          them further to set the context for much more  
21          detailed remarks by the environmental and engineering  
22          specialists on this very distinguished  
23          multidisciplinary planning team.

24                 One of the fundamental differences between  
25          conservation design and conventional design involves

1 a process which is involved. Instead of a  
2 perfunctory analysis of just the inherently  
3 unbuildable areas, the wetlands, the floodplains,  
4 the steep slopes, conservation design examines a wide  
5 array of other natural and cultural features that are  
6 not required to be documented or designed around in  
7 conventional subdivisions. These features include  
8 upland/woodland habitats, wildlife travel and  
9 migration borders, significant trees and tree  
10 samplings, cellar holes, historic roads, stone walls  
11 used into and out of the property and even rock  
12 formation. We are cognizant of all of the above.  
13 All of these elements add both character and value to  
14 the resulting neighborhoods, improving the quality of  
15 life for the people that live there and for the  
16 greater community in Old Saybrook, that will have  
17 free and unfettered access to over five miles of  
18 trails and 500 acres of undisturbed woodland habitat.  
19 It's in everyone's best interest that these features  
20 be identified, located, and designed around.

21 Dr. Klemens will speak at length about the  
22 detailed inventory he conducted with regard to vernal  
23 pools, documenting the number of species and  
24 estimating the populations of those species based  
25 upon scientific analysis of the egg masses which he

1 found and counted.

2 Michael Klein will discuss his survey of other  
3 forms of animal wildlife and plant species which his  
4 team encountered. All of these data and more  
5 informed our site planning process, which was  
6 essentially the reverse, the reverse of which is  
7 typically done with conventional subdivisions.  
8 Instead of first laying out the streets followed by  
9 the lot lines, our process focused first on  
10 identifying potential areas for conservation. Not  
11 just the inherently unbuildable wetlands,  
12 floodplains, and steep slopes, but also a very  
13 substantial percentage of the developable uplands.  
14 The goal is to identify, design around, and  
15 permanently protect, permanently protect an  
16 interconnected network of conservation land. Our  
17 goal is not simply just to satisfy a basic percentage  
18 of open space, but to ensure that the most  
19 environmentally significant lands are safeguarded in  
20 a way that preserves the integrity to the maximum  
21 extent feasible.

22 I participated in every stage of the process,  
23 from numerous technical meetings in professional  
24 offices to multiple site walks, during which we  
25 criss-crossed the entire property under a variety,



1 sometimes very challenging weather conditions.  
2 Working with renowned biologists and the team's very  
3 experienced engineers and landscape architects, I  
4 helped stake the proposal before the town this  
5 evening.

6 After locating that interconnected network of  
7 open space or conservation lands, we then positioned  
8 the house sites and selected the most appropriate  
9 locations for the two compact village settlements.  
10 Only after the house sites were identified did we do  
11 any serious work on street alignments, which for us  
12 was the third step of a four-step process, not the  
13 first of two steps as in a conventional development.

14 The final design step is to draw in the lot  
15 lines. By inverting the design process in this way,  
16 we arrived at a fundamentally different and superior  
17 result. It is not exaggeration to say that the  
18 central organized principle here has been the  
19 preservation of an open space network which has been  
20 carefully designed to preserve vernal pools, the vast  
21 majority of the upland habitat areas, other woodland  
22 habitats, in addition to cultural features such as  
23 cellar holes, historic but abandoned town roads, and  
24 most of the stone walls. This enlightened design  
25 process was made possible by the town's progressive

1           ordinances which provided the maximum flexibility in  
2           lot sizes, lot frontages, building setbacks, house  
3           sizes, and housing types. With the conventional  
4           yield plan, it is simply now possible to design  
5           around all those features and anything like that way.

6           The force of that design that I advocate was  
7           adopted, followed. It went well and has produced  
8           results that reflect a rare degree of sensitivity to  
9           both natural and cultural resources. This approach  
10          has enabled the applicant to permanently preserve  
11          more than 500 acres of undisturbed woodland habitat  
12          in addition to, in addition to the golf course.  
13          Stuart Cohen and Arthur Hills will speak in much more  
14          detail about the design and management of that golf  
15          course.

16          Suffice it to say here that our goal has been to  
17          create the most environmentally sensitive and  
18          responsible golf course in the entire country. This  
19          design approach has been likened to the Energizer  
20          Bunny, because it continues to protect significant  
21          conservation lands within each new development.  
22          Simply put it enables developers to become the  
23          largest conservationists in the town's history. Each  
24          time land is developed compactly around the central  
25          organizing principle of open space protection, more

1 land is added to the town's permanent open space  
2 network.

3 Some communities which I have introduced to this  
4 concept have already saved literally hundreds -- no,  
5 thousands of acres of land from development, all at  
6 no cost to the municipality, the county, the state or  
7 land trust. I think this is perhaps the most  
8 exciting environmentally sensitive, cost-effective  
9 development approach that has been devised to date.  
10 And it's possible because of the flexibility inherent  
11 in the town's very progressive zoning and subdivision  
12 ordinances which allow us to disengage from the  
13 straight jacket of cookie-cutter regulations which  
14 dictate the street frontages, and lot sizes, and  
15 setbacks in such a way that would result in a whole  
16 destruction of this problem. As it has done in  
17 properties in my town in Narragansett, Rhode Island,  
18 as it had done in my former borough of Malvin,  
19 Pennsylvania. Wherever I have lived I have seen this  
20 happen.

21 The exception to the rule, Amherst,  
22 Massachusetts. One week after I moved to Amherst in  
23 1986, I attended a public hearing on the proposal for  
24 new regulations. And they were just beginning the  
25 process. And I got up and I said, I've got an idea

1 here that I have been working on at the center of  
2 rural Massachusetts. And they became the first town  
3 in the Connecticut River Valley to adopt a  
4 conservation design. And that's now been nearly 20  
5 years ago. And they in fact mandated over large  
6 parts of the town of Amherst, because they recognized  
7 what a great planning tool it is.

8 So it's with great pleasure that I have been a  
9 part of this team, and I want to turn the microphone  
10 over to our next speaker, who will be Michael  
11 Klemens, I believe?

12 MR. LANDINO: Klein.

13 MR. ARENDT: Michael Klein, sorry.

14 MR. KLEIN: Good evening, Mr. Chairman,  
15 Commissioners. My name is Michael Klein. My firm,  
16 Environmental Planning Services, was formed about 20  
17 years ago to provide not only the basic natural  
18 resource inventory data that we have talked about and  
19 which is the bulk of our work, wetland delineations,  
20 biological surveys and so forth, but also and  
21 unfortunately up until now not as big a part of our  
22 workload has been the interpretation and valuation of  
23 this data and the implementation and assistance of a  
24 planning process which in this case is proactive, but  
25 as I'm sure you all are aware is more too often a

1 reactive process.

2 I have 27 years of experience consulting in  
3 Connecticut. I'm a soil scientist and a biologist.  
4 The other two members of my firm, Jim Cowen and Eric  
5 Davison, are also biologists and soil scientists.  
6 And I think it's no accident that this  
7 multidisciplinary approach within the firm allows us  
8 to try and look at a little bit bigger picture. And  
9 just like Randall has said, we view this as a  
10 tremendous opportunity to look at an entire ecosystem  
11 within the context of a very unusual and far-sided  
12 land use regulation.

13 In the late '80s and early '90s, I was a  
14 planning commissioner, like you folks, in a town that  
15 had a joint planning and zoning commission and also a  
16 wetlands commission. I think you have a small town,  
17 also. And we had a joint designee from one  
18 commission to the other, and I saw that you had that  
19 here. It's a really great thing, but it also allows  
20 and sometimes gets really frustrated about what  
21 Randall was talking about, the rigid requirements of  
22 conventional zoning. This is a chance to move away  
23 from that, toward the conservation design ethic. And  
24 we have been very excited and privileged to be a part  
25 of it.

1           The first part of our work was to review the  
2           existing data. As I am sure you're aware and most of  
3           the public is aware, there was a prior set of land  
4           use applications associated with this piece of  
5           property which had a variety of degrees of success.  
6           But at any rate, we looked at that data as a first  
7           step in the process. Much of it was a very good  
8           quality. Bob Russo delineated all the wetlands on  
9           this roughly thousand-acre parcel of land. He  
10          reviewed that in the field. We didn't go out and  
11          check every flag, but in walking the site we didn't  
12          find any areas that he should have marked that  
13          weren't and/or other areas that were marked that  
14          shouldn't have been. So we are very comfortable with  
15          that wetlands delineation as part of the process for  
16          the review and approval of the golf course prior and  
17          was considered acceptable by your conservation  
18          commission. And we certainly think it's a fine place  
19          to start.

20                 Bob also did a function value assessment for the  
21                 wetlands on the property, used the Federal Highway  
22                 Administration method, which is one of several  
23                 wetland assessment methodologies. And again, we  
24                 looked at that and thought that that was a fine place  
25                 to start. And I'll talk a little bit about how we

1 expanded that a little bit further.

2 Since the time of those original applications,  
3 David Braventure had done a bird survey on the  
4 property, surveyed the avian resources on the site.  
5 And we thought that that was also very well done  
6 scientifically, appropriate methodology, and  
7 appropriate for use.

8 We did identify some additional data needs. One  
9 of them was a flora inventory, an inventory of the  
10 plants at the site. Jim Cowen, a botanist and soil  
11 scientist from my office, performed most of that  
12 work. And this was done during the growing seasons  
13 of 2003 and 2004. Jim was on site for 25 days in  
14 particular during those two years looking at  
15 vegetation. Those surveys were timed to identify the  
16 maximum amount of information about the flora. We  
17 looked at all the habitat types that were present at  
18 the site. We identified the potentially plant  
19 species of conservation concerns, listed species, so  
20 forth. We identified the habitats that they were  
21 likely to look at and times of year that they were  
22 most likely to be conspicuous. And Jim timed the  
23 surveys in those locations to maximize the  
24 opportunity of finding those. And that's an unusual  
25 luxury to have, especially to go back a second

1 growing season and do that. And it's the result of  
2 this process that you've developed in the town.

3 Similarly, with the mammals we felt that there  
4 was some additional data that needed to be collected  
5 to document some of the wildlife at the site. Eric  
6 Davison from my office is a wildlife biologist and a  
7 soil scientist, and he was on the site for 32 days  
8 during the 2003 growing season, from April to  
9 October. He's been there on several other occasions  
10 since for other functions, and of course he's  
11 continued to keep his eyes open to round out those  
12 observations.

13 He performed this survey using a variety of  
14 techniques. The primary one is just simple  
15 observation, looking for tracks, looking for animals,  
16 looking for skeletons, looking for scat, looking for  
17 deer, all those kind of things. We also used live  
18 trapping. I just wanted to make sure everyone  
19 understands that no animals died as a result of that  
20 trapping process. We were very careful in that  
21 regard, got the permts from DEP and so forth.

22 We also set up remote cameras on the site that  
23 take pictures at night based on movement. Many of  
24 the mammals are active for the most part in the dusk  
25 and dawn hours as well as in the evening, so that was



1 a technique that we used on the site. And we have a  
2 very thorough inventory in that regard.

3 We did bring in one specialist to assist us,  
4 Jacques Varua (phonetically), a Ph.D., biologist, who  
5 specializes in bat surveys. It's a fairly esoteric  
6 subject and requires some special skills and special  
7 equipment. And he used mistnetting and echo location  
8 surveys to document the bat quality at the site.

9 The net result of the mammal surveys is shown on  
10 the board that's labeled Site Mammals, which is  
11 immediately next to Attorney Branse. And we  
12 identified 21 different species of mammals at the  
13 site. An additional 11 were either considered  
14 probably present or possibly present. It's up on the  
15 board there or up on the stage. And the locations of  
16 each one of those sightings is keyed in different  
17 colors on the map, and the names of the particular  
18 species are shown on the legend. I just want to  
19 emphasize that we did not identify any threatened or  
20 endangered species of mammals at the site.

21 There is one special concern bat species based  
22 on -- special concern species can be listed for a  
23 variety of factors, one of which is that there may  
24 not be a significant amount of data. We don't think  
25 that there have been bat surveys in Connecticut. And

1 the special bat, the red bat is seeming to show up  
2 more frequently based on additional survey work. And  
3 we have work we just became aware of in  
4 Massachusetts, in the large water supply properties  
5 of the City of Boston, finding red bats fairly common  
6 in wooded habitats there as well. That may be the  
7 answer to that question about why that species is  
8 listed as special concern.

9 MR. BRANSE: Excuse me, Mr. Klein. For the  
10 record, Mark Branse.

11 This map is in what was submitted this evening  
12 or was it part of your earlier set?

13 MR. KLEIN: I don't know the answer to that. It  
14 was part of my report which was submitted last week.

15 MR. BRANSE: So this map is in the record is  
16 what I am trying to ascertain.

17 MR. KLEIN: As far as I know, yes.

18 MR. BRANSE: Okay.

19 MR. KLEIN: The next map to the audience's left  
20 on the easel is the Site Vegetation, and that  
21 documents the result of the vegetation surveys that  
22 Jim Cowen did. For a large site like this, the  
23 vegetation is in some ways surprisingly undiverse.  
24 That's not really surprisingly uniform. Most of that  
25 drawing is white, and that's to indicate the mixed

1 deciduous flora of the site. Most of the site is an  
2 upwards mixed deciduous flora, with the wetland area  
3 shown sort of yellow-green. And most of the wetlands  
4 are wooded swamps, red maple swamps. And that's the  
5 yellow-green color.

6 A substantial linear plant community is present,  
7 and it forms a sort of an inverted V going from --  
8 starting on the western side to the northeast and  
9 then turning and running to the southeast in a dark  
10 color. And that's the utility rights-of-way --  
11 right-of-way that passes through the property. And  
12 that's maintained by a utility in an earlier  
13 successional state, what we call old field habitat  
14 type, and some early wet meadow vegetation. And that  
15 provides one of the interesting areas of biodiversity  
16 at the site.

17 In addition, the only two really unusual plant  
18 communities on the property in the extreme southeast  
19 corner, as shown on that Site Vegetation map in a  
20 dark color, is an Atlantic White Cedar swamp. That  
21 is an unusual habitat type in Connecticut. And this  
22 Atlantic White Cedar swamp, although fairly small in  
23 size, is an actively reproducing plant community.  
24 There's seed that's setting and growing in this area.  
25 It's been affected by the utility right-of-way, but

1           it's still there and still managing to hold its own.

2           The other and the largest of the unusual habitat  
3 types or uncommon habitat types on the site in the  
4 very center of the property shown in a green color on  
5 that Site Vegetation map is Pequot Swamp Pond, which  
6 is neither a swamp nor a pond from a botanical  
7 standpoint. It's got some bog-like characteristics,  
8 but the vegetation is more accurately described as a  
9 floating shrub mat, speculating that it's possible  
10 that that development of that plant community can be  
11 as a result of the fact that water level in that area  
12 has been manipulated in the past. It's been higher  
13 as a result of dams, and those dams have breached and  
14 it's been lower. But there's not substantial areas  
15 of open water. There are smaller areas of open water  
16 particularly to the south.

17           The other drawing furthest to the left is  
18 labeled Wetlands and Watercourses. That shows all of  
19 the wetlands that were identified on the bulk of the  
20 property by Bob Russo and that our office confirmed.  
21 And it also shows the fourth element of additional  
22 data that we provided, and that's the work that I had  
23 the opportunity to have the most field input in,  
24 which is the wetlands delineation on the Pianta  
25 property. The Pianta property is at the northeastern

1 extreme of the property, just south of the Essex/Old  
2 Saybrook town line. And there are several small  
3 wetland areas that are shown on there, again, in that  
4 same olive green or greenish-yellow color.

5 Getting back just briefly to the vegetation,  
6 again, we did not identify any threatened or  
7 endangered plant species at the site. We did  
8 identify three special concern species, and they are  
9 all within the areas of the site that are going to be  
10 conserved.

11 The avian survey, the bird surveys, as I  
12 mentioned before done previously by David Braventure,  
13 to just very briefly summarize his results. He used  
14 a very detailed survey protocol, had 34 survey points  
15 on the site, did observations in early June, which is  
16 the peak time of the year for looking at avian  
17 biodiversity in Connecticut, and identified 57  
18 species of birds. Again, none of them threatened or  
19 endangered.

20 The results here that I very briefly summarized,  
21 the most detailed biological and wetlands survey,  
22 we've had the privilege of conducting in the course  
23 of those literally thousands of investigations that  
24 I've done in the last 27 years in Connecticut.

25 Now, what I would like to talk about is a little

1 bit of the assessment data, assessment information  
2 that I talked about in the beginning of my  
3 discussion, taking the inventory data and looking at  
4 it and understanding a little bit more about how  
5 those resources actually function. And in that  
6 regard our job was to look at the wetland functions  
7 and values. As I mentioned Bob Russo had done a lot  
8 of that work, and we expanded on that work to look at  
9 the Pianta property. The wetlands at this site are  
10 primarily red maple swamps, as I mentioned. And they  
11 are shown in the center drawing, the Site Vegetation  
12 map, in the yellow-green color. Most of the wetlands  
13 are red maple swamps. This is the most common  
14 wetland type in Connecticut.

15 These wetlands provide an area of shallow  
16 groundwater interchange. It's limited by the fact  
17 that the underlying geological materials in most of  
18 the site are relatively dense, with the exception of  
19 being in the southeast corner in the vicinity of the  
20 Atlantic White Cedar swamp that I mentioned before  
21 where there is some sandy gravel. These red maple  
22 swamps provide good quality habitat for some wetlands  
23 associated wildlife. Wildlife that we frequently  
24 find in wetlands, but doesn't depend entirely on  
25 wetlands. But it's a relatively modest quality

1 habitat for the wetland-dependent wildlife primarily  
2 because there's not a lot of permanent, open water at  
3 the site.

4 It does -- these wetlands provide biomass export  
5 function at the top of three different watersheds.  
6 And they do start the food chain running I guess you  
7 could say. They store and retain flood waters,  
8 because they are high in the watershed. That's an  
9 important place to influence downstreet hydrology.

10 The buffers are -- around these wetlands are  
11 relatively intact. Their overall integrity is good  
12 and the attenuation functions are good, because there  
13 is not a lot of disturbance in that area.

14 And in summary, they are fairly typical for the  
15 region in the state. Their functions for the most  
16 part are moderate, moderate quality. They are  
17 elevated somewhat, because they are intact wetlands  
18 systems. Most of the wetlands on the site have not  
19 been extensively bisected or if they have been  
20 bisected, it's been by utility rights-of-way or the  
21 Old Ingham Hill Road which still allows some  
22 connectivity to be maintained.

23 As I mentioned there are two major vegetative  
24 wetlands type, the Pequot Swamp Pond, which is  
25 interesting and unusual because of the habitat, and

1 the Atlantic White Cedar swamp. The Atlantic White  
2 Cedar swamp is in a portion of the site where there  
3 is no development to be proposed. And we have  
4 considered very carefully the impacts of any  
5 potential development on the Pequot Swamp Pond in the  
6 open space plan.

7 The third of the high quality wetlands systems  
8 on the site that we looked at preserving are the  
9 vernal pools. Michael Klemens is going to talk about  
10 them in some detail. However, I would like to  
11 discuss just briefly the rationale for what you're  
12 going to hear a lot of emphasis on the vernal pools.  
13 In looking at all of these resources that are shown  
14 on these three drawings, we very quickly came to the  
15 conclusion that the vernal pools and their associated  
16 contingent wildlife are the critical limiting factors  
17 in the development of a conservation design for this  
18 site, that preservation of the biodiversity in the  
19 vernal pools would ensure overall wetland protection.

20 There were several reasons that we came to that  
21 conclusion. They are widely distributed throughout  
22 the site. Michael will show you the map in just a  
23 few moments. They are sensitive to alterations in  
24 water quality and water quantity or hydrology. They  
25 require an intact wetland and an intact nonwetland



1 area adjacent to them in order for their ecology to  
2 be preserved. And that intact nonwetland area needs  
3 to be relatively large. So we came to the  
4 conclusion, in looking at the resources at the site,  
5 that the protection of vernal pools and their biology  
6 allow for the protection of the biodiversity and  
7 ecology at this site. This detailed data base we  
8 felt allowed the site designers to prepare a fully  
9 informed site design.

10 And I would like to shift gears just a little  
11 bit. And without having -- you had a detailed  
12 presentation on the site design. I would like to  
13 talk just a little bit about some of the measures  
14 that are incorporated into the design to minimize and  
15 eliminate adverse impact particularly to the wetlands  
16 systems. That's my primary area of expertise.

17 And the first and the most important of them is,  
18 as always, avoidance. Avoiding impact is the best  
19 method of mitigating impacts and eliminating impacts.  
20 And the road layout that you see on this drawing  
21 immediately to my right, Open Space Subdivision -  
22 Preservation Plan, shows a road system that only  
23 crosses the wetlands in three places. And those  
24 crossings are located at very narrow points in the  
25 wetland. This allows for the road to be built over

1 the wetland without any fill required within the  
2 wetlands. And this is very unique for a site of this  
3 size to allow access throughout this property, this  
4 very large piece of property without any wetland  
5 filling at all. And that's the primary method of  
6 mitigation on this site. It is avoidance.

7 The second method and the second most important  
8 method is minimization. Wherever impacts are  
9 absolutely unavoidable, they have been minimized. I  
10 mentioned there's no fill required for any road  
11 construction. There's no fill required for any lot  
12 development or any golf hole development. But the  
13 routing of the golf course does require some cart  
14 paths to be built that pass in this case over the  
15 wetlands areas. The golf cart pass will be carried  
16 over the wetlands and on bridges. These are bridges  
17 that are built in a little bit of a unique way. They  
18 are modular or they are built-in-place kind of a  
19 design. The series of piles is set in the wetland  
20 and the deck is added to the bridge. And you build  
21 the next section from the previous section that you  
22 just built. This allows you in very short segments  
23 to work around trees and important other features,  
24 both natural and cultural.

25 We also have design -- worked with the golf

1 course designers to locate those cart paths within  
2 areas where other development will occur. So even  
3 though they are narrow, typically eight or ten feet  
4 wide, and they tend to be -- they don't have to be in  
5 a straight line. They can work around trees.  
6 Obviously, if you're in an area where trees have to  
7 be removed for another reason, you can't eliminate  
8 tree removal. So we have tried to locate those in  
9 the carry areas, the playover areas of the golf  
10 course.

11 Another impact minimization technique was the  
12 way that these playover areas or carry areas were  
13 handled. In traditional golf course designs, these  
14 would be converted into a fairway appearance perhaps  
15 with a channelized stream running through them. In  
16 this case where we are playing over the golf course  
17 is over wetlands. There are going to be hazard  
18 areas. They will -- trees have to be removed for  
19 line of sight or play, but the vegetation is allowed  
20 to grow back up to a height, and that height is  
21 determined by the height of the tee and the landing  
22 area on the other side. But you can usually get  
23 three feet minimum. Sometimes it's six, eight or  
24 ten feet or more that the vegetation is allowed to  
25 come back up to. By removing the trees we have found

1           on other golf courses that this -- and it's not  
2           really a surprise if you think about it. The  
3           increased sunlight promotes a very vigorous growth of  
4           shrubs and herbs in the wetland areas, so you get a  
5           very high productivity in the areas of vegetation  
6           that remain.

7                     Another impact minimization technique that's  
8           used in this conservation design is in terms of storm  
9           water management. The storm water is disbursed in  
10          multiple locations. We have not brought the storm  
11          water, centralized water to detention basins with a  
12          variety of best management practices that we used to  
13          infiltrate storm water back into the ground, to use  
14          grass swales, to use various water quality treatment  
15          techniques to minimize what the hydrologic impact  
16          would be as well as the impact on water quality.

17                    And the final technique that we are using in  
18          terms of impact mitigation is restoration and  
19          enhancement. Existing wetlands and wetland buffers  
20          that are either degraded or that require some  
21          activity during construction will be restored through  
22          an extensive network of native plantings. We have  
23          worked with the landscape architects and the golf  
24          designers to develop a laundry list, if you will, of  
25          native plants to be used. Those native plants have a

1 variety of advantages. They are hardy. I guess that  
2 goes without saying. They are adapted to this  
3 environment. They don't require an extensive amount  
4 of fertilization or other management to be  
5 successful. They're also typically used by native  
6 wildlife species.

7           And if you look at the lists that are in our  
8 report, you'll see lots of things that have the name  
9 berry after them, because we have tried to choose  
10 things that produce fruits and seeds for wildlife.  
11 For example, the seeds are red maples and swamp white  
12 oaks. Swamp white oaks produce acorns and maple  
13 seeds are used by a lot of wildlife. And the shrub  
14 layer, shadlow, huckleberry, and elderberry. They  
15 all produce roots that wildlife use. The herb layer,  
16 swamp milkweed, is used by butterflies and other  
17 insects. Iris are very attractive. And these are  
18 just examples. There's just literally dozens that  
19 are included in our report, pickleweed.

20           We have also identified a number of seed mixes  
21 to use in areas that need to be reseeded. There's  
22 actually eight different seed mixes that are  
23 identified in our report. Three of them are custom  
24 designed specifically for these kind of projects in  
25 Southern New England and five of them are more

1           proprietary in nature, developed by manufacturers.

2           The last element in the mitigation plan and one  
3           of the most important in terms of long-term operation  
4           of the site is the detailed pest and turf management  
5           plan. This also sort of works through an avoidance  
6           and minimization hierarchy by identifying proper  
7           cultural practices to develop a good quality turf.  
8           It was specifically designed for this site to protect  
9           the most sensitive group of wildlife at the site,  
10          which is the amphibians. They are more sensitive to  
11          some of the products used on the golf course and  
12          other animals and actually even humans. So while the  
13          plan is fully protected with human health, it also  
14          protects the amphibian resources at the site which  
15          are very sensitive to alteration.

16          And as a final check and balance, if you will,  
17          on that area there is a very detailed water quality  
18          monitoring program, which is an important mitigation  
19          element. Both surface and groundwater will be  
20          monitored extensively after the site is completed.  
21          And Stuart Cohen will talk to you about that.

22          What I would like to do now then is introduce  
23          Michael Klemens, who's going to talk about the flora  
24          and fauna on the site, the reptiles, the amphibians.  
25          And I -- then I think Stuart Cohen is going to talk.

1           MR. KLEMENS: Good evening, Chairman and Members  
2 of the Commission. My name is Michael Klemens. And  
3 I briefly qualify myself -- you have my CV in your  
4 list of things that was handed out to you last time.

5           Basically, I received my bachelor's in  
6 education, zoology and my master's in zoology from  
7 the University of Connecticut and my Ph.D. from the  
8 University of Canterbury in the United Kingdom in  
9 conservation, biology, and ecology. I'm on the  
10 scientific research staff of the American Museum of  
11 Natural History in New York City. I have been on  
12 staff since 1979 and also work full time for the  
13 Wildlife Conservation Society, Bronx Zoo and other  
14 large living institutions for wildlife in the New  
15 York City region. I am on faculty of Columbia  
16 University, University of Massachusetts, and the  
17 University of Maine. And until recently I was chair  
18 of my own planning commission and wetlands agency in  
19 my own community of Rye, New York, which I did that  
20 until about a year ago for 11 years.

21           I'm going to approach this really as a  
22 scientific discussion. So I am going to go through  
23 this as much as you write a scientific paper. An  
24 introduction, then I am going to talk about materials  
25 and methods, the results, and the discussion. And

1 much of what I am going to talk about is really a  
2 short summary of what's contained in the report that  
3 was submitted to you, herpetological survey and  
4 vernal pool analyses, conservation planning  
5 recommendations and strategies. That was submitted I  
6 think around the 3rd or so of November, 2nd of  
7 November to the town.

8 I am the founding director of the Metropolitan  
9 Conservation Alliance which also works with land use  
10 decision-makers throughout the tri-state region. We  
11 talk about how to effect better land use planning.  
12 Some of you I believe have been to the workshops I do  
13 in conjunction with the Connecticut DEP to actually  
14 train local land use decision-makers on ecological  
15 literacies.

16 And this is really an exciting project for me in  
17 some ways. It is challenging, also. I will be very  
18 honest with you on that. This really is a difference  
19 I see between reacting to an application versus  
20 planning. And it's really an opportunity to really  
21 understand, first, the ecology of the site, which  
22 very rarely happens, and then to really place the  
23 development on the site respecting the natural  
24 resources.

25 And this may sound very subtle, but, actually,



1 the reason that we have such widespread declines in  
2 amphibians, and reptiles, and other species in  
3 Connecticut is basically planning generally proceeds  
4 the other way. Generally we plan on a very small  
5 scale. We then plan where we think the development  
6 should go and then we expect that the wildlife and  
7 ecosystems will rearrange itself -- themselves around  
8 the ecosystems. It doesn't work that way.

9 The other big challenge that we face from a  
10 conservation perspective to plan effectively is an  
11 ecosystem that existed in scales that are measurable  
12 in thousands of acres, and our planning as often  
13 occurs at scales that are much less.

14 What is unique here at this site is we have an  
15 opportunity to plan at a scale that really has  
16 ecological resonants. It's a tremendous opportunity.  
17 It's also, I will tell you as someone who spends  
18 their life working in conservation, an awesome  
19 responsibility. And this is also not for me a  
20 discussion about whether or not the property should  
21 be acquired -- should be acquired for the public.  
22 It's really more of a discussion that if the property  
23 is to be developed, how can we use scientific  
24 information, scientific data to actually create a  
25 plan that protects the site in the development

1 context. That indeed is the difference between  
2 reacting and planning, and that's very much what I do  
3 on my full-time job. I should also state that I  
4 qualified myself with a variety of affiliations and  
5 that I am representing this applicant as a private  
6 consultant on this project.

7 Now, I am going to be discussing -- I am working  
8 from a series of maps. All those maps are contained  
9 within the report that was submitted, but we do have  
10 blow-ups here, large-scale maps to sort of facilitate  
11 the discussion.

12 The first one I would like to draw your  
13 attention to is the one in the middle, and that  
14 really is the sum total of the overall amphibian and  
15 reptile observations. This is known as map number  
16 one, Overall Amphibian and Reptile Observations.  
17 This really shows you the results of what was  
18 basically about 400 hours in the field by myself and  
19 my associates, over 20 days in the entire activity  
20 season plus work done earlier that we incorporated.  
21 And I think right away you'll see these are all the  
22 species that are sensitive and the more common  
23 amphibian and reptile species. And I think right  
24 away you'll see that there is a real clustering of  
25 species occurring here in the western portions of the

1 site, to the west of Pequot Swamp Pond. We have  
2 another really important node here in the  
3 southeastern part of the site and another node right  
4 up here in the northeastern part of the site. I  
5 think this is very important to understand that  
6 animals were not distributed evenly on the site.

7 Now, people will say why are you concerned about  
8 amphibians and reptiles? Amphibians and reptiles,  
9 actually, from a land use planning perspective, are  
10 really fantastic animals to use. It's not just  
11 because I've spent my life studying them, but  
12 actually they are very, very sensitive to disturbance  
13 at the very level -- 1,000-acre level. Unlike birds  
14 and unlike mammals, they are tied to very specific  
15 habitats. They are not very agile. That's a big  
16 word. They are not able to disburse themselves very  
17 readily. So when their habitats disappear, these  
18 animals disappear. So they are a really great  
19 candidate species to talk about. We talk about  
20 protection in land use planning.

21 Now, the results of my work show that we have 25  
22 species of amphibians and reptiles on the site.  
23 That's slightly more than half of the species that  
24 occur within the state, and many of those I would not  
25 expect to occur here because of the geographic

1 location of The Preserve. Many of our species really  
2 occur just in the western part of the state.

3 So what we have here, we actually have a diverse  
4 pod. We have a fauna that's typical of this part of  
5 the state. There are no endangered or threatened  
6 species on here. But, actually, if you look at the  
7 geography of Connecticut's amphibians and reptiles,  
8 you wouldn't expect any endangered or threatened  
9 species. They are just not within the range of The  
10 Preserve area.

11 And much of the work that I'm talking about, the  
12 amphibian and reptile data, draws from my publication  
13 which is The Amphibians and Reptiles of Connecticut,  
14 which is Bulletin 112 of the Connecticut Geological  
15 and Natural History Survey. And so many of the  
16 conclusions have been published on the distribution  
17 of amphibians and reptiles. The data collected at  
18 The Preserve are going to be very useful when I put  
19 the second edition of this book that's out of print  
20 now, and I'm working on the second edition.

21 Let's move on to talk a little bit about vernal  
22 pools, because that really is an essential component  
23 of this study. This is now map number 2-A, The  
24 Vernal Pool Inventory. And the work on The Preserve  
25 site indicated there were 31 vernal pools on the

1 site. These are indicated in the blue on the map and  
2 they are numbered. And again, this map is in the  
3 report. I think one thing I would like to direct  
4 your attention to on this is you'll note that many of  
5 the vernal pools are actually imbedded in the larger  
6 sort of odd color, sort of a greenish-tan coloration  
7 here. Those are your wetlands system, and that's  
8 interesting.

9 At The Preserve we have very few vernal pools  
10 that meet the definition of a classic isolated  
11 impressional wetland. Though pool number 20, located  
12 up here in the northeastern part of the site, and  
13 pool number 17, located here in the southeastern  
14 portion of the site, those are classic depressional  
15 basins. You contrast that, let's say, for example,  
16 with some of the ones in the western portion of the  
17 site, pools number seven, and twelve, and nine.  
18 Those are all portions of larger wetland systems.  
19 Those are what A. J. K. Calhoun and I, in our 2002  
20 book, Best Development Practices for Conserving  
21 Vernal Pools and Pool-breeding Amphibians, classify  
22 as cryptic vernal pools. They are not stand-alone  
23 vernal pools, but they are deep areas within wetland  
24 systems in the red maple swamp systems that actually  
25 hold sufficient water with sufficient hydrophilic to

1           serve as vernal pools. So I think that's an  
2           important distinction to be made.

3           Now, one of the things that we needed to do here  
4           on this site was actually to try to understand the  
5           differential quality of these pools. There were many  
6           pools. And if we were really going to try to create  
7           a planning tool or a planning methodology, we needed  
8           to understand which pools actually have the highest  
9           conservation values.

10          Now, The Best Development Practice Manual that  
11          A. Calhoun and I wrote, we basically have a tiering  
12          system for vernal pools. That tiering system is a  
13          rather coarse filter. And if you have a pool that  
14          has 25 or more egg masses in it or two species  
15          breeding in it and has 75 percent of the upland -- of  
16          the first 100 feet undeveloped and 50 percent of the  
17          next 100 to 750 feet, that becomes a tier one pool.  
18          And many of the pools on the site, because of the  
19          intactness of the site and the productivity of the  
20          amphibians, are rated tier one. So from that coarse  
21          filter we needed to develop a fine filter approach to  
22          try to make decisions between those vernal pools.

23          And to do the fine filter approach, I looked at  
24          three additional factors which we looked at here on  
25          The Preserve. One was the actual productivity. What

1 was the egg mass counts per pool, because not all the  
2 pools were equal. For example, the pool right here  
3 in the center, this little one, number 27 right in  
4 the center of the site to the -- just due east of the  
5 proposed large village development, the village  
6 development here had a single spotted salamander egg  
7 mass in it for two years, and that contrasted very  
8 markedly with pool number 18, located here in the  
9 southeastern portion of the site, which had over  
10 1,000 to 1,200 egg masses per year. You had really  
11 differences in productivity.

12 Then we looked not only at the presence of  
13 obligate species. Obligate vernal pool species are  
14 the three species that absolutely depend on vernal  
15 pools to breed. That on The Preserve are the marbled  
16 salamander, the wood frog, and the spotted  
17 salamander. And those are all obligate species.

18 And again, the next question I asked was how  
19 many pools have all three species breeding in them?  
20 And the sense was if you had a pool with all three  
21 species breeding in them, it was a high quality pool  
22 or higher quality pool.

23 Another factor I looked at was the presence of a  
24 facultative species. A facultative species is a  
25 species that basically use vernal pools but are not

1 dependent upon vernal pools. But yet many of them  
2 are important species in terms of conservation  
3 concerns. These are species that are the four-toed  
4 salamander, spotted turtle, red spotted noot, gray  
5 tree frog. These are all what we consider to be  
6 facultative species.

7 And very last looked at the presence of special  
8 concerns species. We had two special concerns  
9 species on site. One is the box turtle. And I'm now  
10 referring you to map number 2-B, which is the Vernal  
11 Pool Conservation Plan with Priority Conservation  
12 Species. And you will see the box turtles, for  
13 example, are here in this light blue. We have one  
14 here, another here, and one noted up here. Again,  
15 right up here in Essex. Here is the first one in the  
16 northeastern portion of Essex, another population  
17 down here on Ingham Hill Road on the southern portion  
18 of the site, and one more population right on the  
19 Westbrook town line.

20 We looked at the ribbon snakes. And we had  
21 quite a node of them up in here, up here in the  
22 northeastern portion of the site. Again, those are  
23 all so scattered throughout the site.

24 So using those data we were able to redetermine  
25 that we had 12 really critical vernal pools. And



1           those are actually shown on this map over here.

2           Again, you see them right here.

3                     Now, these vernal pools have their vernal pool  
4           area. Surrounding the vernal pool area in red is  
5           what we call the 100-foot zone. That actually  
6           corresponds very nicely to your 100-foot regulated  
7           area around the wetlands. And vernal pools are  
8           wetlands. So the vernal pool envelope and the  
9           regulated area are interchangeable. But from vernal  
10          pool conservation it's a very, very different  
11          approach, because that 100-foot area around the  
12          vernal pool is just really the beginning of the zone  
13          of protection and conservation concern, not the end.  
14          That first 100 feet is called the vernal pool  
15          envelope. It is -- in best conservation practices  
16          should remain totally forested. It is essential for  
17          the production of leaves which drive the vernal pool  
18          system. They are driven by nutrients by leaves.  
19          It's essential for the young animals when they come  
20          out to stage and essential for the ones that come in  
21          to breed. So you need that 100-foot left around that  
22          pool intact.

23                     And then you have what's called the critical  
24          habitat zone. This is the zone from 100 to 750 feet.  
25          The next zone in which about 95 percent of your

1 population resides. And this is the real challenge  
2 with these vernal pools is that they have very, very  
3 large upland habitat requirements. And in terms of  
4 planning this becomes a challenge to really try to  
5 protect it.

6 Now, in The Best Development Practice Manual,  
7 again, A. Calhoun was my co-author on this, with this  
8 team of scientists throughout New England looked at  
9 how you can actually manage vernal pools in a  
10 development landscape. And basically, the standards  
11 that we have arrived at and were peer reviewed was  
12 that you could end up with taking 25 percent of the  
13 zone, from 100 to 750 feet, and developing it with  
14 very, very tight standards on that development. It's  
15 not your normal type of development. Take that and  
16 you could still sustain the vernal pool.

17 And why this is important is because this really  
18 has formed the basis of the conservation plan here  
19 for The Preserve, which is illustrated on map number  
20 28, which uses the 50 -- the 12 critical vernal pools  
21 plus two additional vernal pools -- three additional  
22 vernal pools as the stepping stones of connectivity  
23 throughout the habitat. You'll look at these vernal  
24 pool disks, the disks that are shown here on the map,  
25 that are scattered throughout the map. You will see

1           they connect as steppingstones of habitat through The  
2           Preserve.

3           Also indicated on that are the protected wetland  
4           areas. And between the 15 pools of the protected  
5           area, you will see that you have covered much of the  
6           biodiversity of the site. Many of the critical  
7           species now lie within this protected zone. And this  
8           is really I think conservation planning at its best,  
9           where you have used the scientific data to fashion  
10          the development in a very different way.

11          When I first started working on The Preserve,  
12          the first maps I got had the old designs. I said, I  
13          don't want any maps that have development on it. I  
14          want to have just the maps with the wetlands and the  
15          features. I did not want to have anything that would  
16          predispose my thinking. I wanted to go over the  
17          site, look at the site blindly, so to speak, without  
18          any sense of what the development was proposed or  
19          thought to be.

20          Once all these data were collected, we began a  
21          series - I think Randall Arendt spoke about this -  
22          really a series of planning charades where we began  
23          to take the information that I had and began to  
24          integrate that into the overall planning process.

25          Now, when I talk about development within that

1           750-foot zone -- oh, excuse me, the 100- to 750-foot  
2           zone, the 25 percent development is an important  
3           figure. That is the threshold that we tried to meet  
4           within all those disks. And I took a very, very  
5           conservative approach to this. And I say  
6           conservative from the point of conservation, in that  
7           if there was golf -- post golf activity in that zone,  
8           it counted as part of that 25 percent as if it were  
9           paved. So I did not, for my conservation planning,  
10          make a distinction between golf course, between  
11          pavement, and between roads. However, I should also  
12          point out that as far as actual habitat utilization,  
13          as far as amphibians are concerned, there are two  
14          major functions that this upland habitat that you see  
15          here functions as. One of them certainly is this  
16          habitat here. But the other thing that's important  
17          is, also, the animals move through it. So certainly  
18          on the areas of the golf course that are here, they  
19          may not serve as habitat, but the goal we have tried  
20          to do with the golf course is to make sure that the  
21          animals can move across the golf course. So we are  
22          not meeting both functions, but we are meeting one  
23          function. But I want to reiterate even though it's  
24          just sort of a half function, we still gave it a  
25          total discount as far as development credit. We

1 treated it as development. But I wanted to state  
2 that. We placed a rather high standard.

3 And part of that whole thing of having the golf  
4 course function as habitat, Dr. Cohen will speak to  
5 you about the IPM management. So I wanted to make  
6 sure that the amphibians that go across the golf  
7 course would not be exposed to levels of pesticides,  
8 herbicides or fertilizers that will be problematic.  
9 We wanted to make sure that the design of the golf  
10 course didn't have fuel drains that would capture the  
11 animals and make those areas actually accessible and  
12 not to serve as impediments.

13 Now, concerning the actual road system, the road  
14 system presented -- and again, this is spoken to in  
15 The Best Development Practice Manual. The road  
16 systems presented problems or challenges I should  
17 say. For the major road, what I call the spine road  
18 through the site, the design objectives were to move  
19 the animals underneath the road, to get them moving  
20 in underpasses. And you'll see the underpasses that  
21 are indicated all here with the arrows. And in  
22 conjunction with these underpasses, wherever you have  
23 the road crossing through the vernal pool area, the  
24 animals are being deflected from the road either by  
25 curbs or deflectors. And those are actually design

1 details that are in my report and show you a design  
2 detail of how we are designing the roads so the  
3 animals cannot actually get onto the roads and be  
4 killed by passing traffic. That's what's needed on a  
5 road that's high-intensity traffic.

6 On roads with low-intensity traffic - that's the  
7 kind of roads that are actually disbursing within the  
8 proposed residential development - the idea is to  
9 move the animals through there quickly. So we have  
10 what we call the four-to-one curbing, the Cape Cod  
11 curbing or -- and the swales. We don't have catch  
12 basins. We don't have hydrodynamic separators. We  
13 have very unique storm water treatment systems there.  
14 Again, so the idea in those areas is not to catch the  
15 animals but to have them pass. That's the kind of  
16 thinking that went into it.

17 We are going to be providing you copies of The  
18 Best Development Practice Manual as part of the  
19 record. It will be given to you at the -- at your  
20 next meeting when we continue our presentation.

21 I should say a brief note also about the  
22 underpasses, the wildlife conduits. They are not  
23 what you consider your standard cotton field round  
24 sort of pipes. They are actually square box culverts  
25 with penetration. That's openings that light can

1 penetrate. They have been created and tested in  
2 other sites as actual things that wildlife will go  
3 through. Wildlife does not like to go into sort of  
4 dark tunnels even at night. What they want is  
5 basically to have a large opening where there is  
6 spillage of natural light or moonlight where they  
7 actually can move through. And that's what these  
8 are. Some of these are over 14 feet, that span  
9 14 feet over. The one over here in the northeastern  
10 portion of the site, around the second most important  
11 vernal pool here - I believe that's pool number 20 -  
12 I think that's about 14 feet high, some of these. So  
13 you really have a really -- or maybe it's 14 feet  
14 high, the one over here. They are high enough to  
15 really not -- don't think of them as very crude sort  
16 of culverts. They are really very much designed with  
17 wildlife passage in mind. And that really forms the  
18 basis of how we have tried to hold the whole site  
19 together ecologically.

20 The other thing I should mention is when this  
21 data became available, there was a lot of redesign of  
22 the site. The fact -- when you start looking at a  
23 site, things that you assume about a site, looking at  
24 a map, become counterintuitive. You begin to  
25 understand the site. For example, I thought, as many

1 people thought, this was going to be a wonderful  
2 natural corridor right here, along the railroad,  
3 Valley Railroad branch from Essex, all the way down  
4 here trending to the southeast. And yet when the  
5 data came in, it showed that it wasn't the case at  
6 all, that there was very limited wildlife utilization  
7 up here in this knoll right here in the east-central  
8 part of the site, and that the connections really  
9 were much more around in the swamp and in the basins.  
10 It was a very different sort of thing. So  
11 consequently, the development was shifted around.

12 A secondary village was placed up here. The  
13 estate homes were placed up here on the eastern part  
14 of the site. And a tremendous amount of the  
15 intensity development was reduced here in the western  
16 portion of the site, which did have a lot more  
17 diversity, a lot more interconnected pool mosaic.  
18 This is just one of the many changes that were made  
19 to the site reflected on the biology.

20 And that really does conclude what I have to say  
21 in a brief overview of how we took the scientific  
22 information and created a plan which I believe is  
23 actually rather unique and novel. It's the first  
24 time that we have used a site of this size in  
25 Connecticut and been able to apply this kind of



1 analysis to create this kind of plan. And it does,  
2 as has been said by the other speakers, very much  
3 reflect the ability of the town, the ordinances that  
4 you passed that enabled this type of really forward  
5 thinking, innovative planning. As I speak over and  
6 over again in my workshops, it is -- we are really  
7 often victims in a sense. We probably can't do  
8 better ecological planning, because we don't have the  
9 tools. The town wisely enacted the tools to do this  
10 kind of planning. And I think this is a really,  
11 really exciting project for me as someone who  
12 publishes on this and lectures on it. Here's a  
13 chance to actually have it experientially happen,  
14 actually put what is theoretical into practice on the  
15 ground. And that concludes what I have to say.

16 And I am going to have Stuart Cohen come next  
17 and talk to you about the IPM plan.

18 MR. COHEN: Thank you. Well, two pieces of good  
19 news. I'm the last scientist from our team that will  
20 be speaking tonight. And the second piece is I won't  
21 be speaking as long as everybody else has spoken.

22 My name is Stuart Cohen with Environmental and  
23 Turf Services in Maryland and Vermont. You may have  
24 a CV of mine. But briefly I have a Ph.D. in physical  
25 organic chemistry, am a certified groundwater

1 professional. I've been working in the environmental  
2 risk assessment area for almost 29 years. That  
3 includes 11 years with the U.S. EPA. My last  
4 position there was in charge of the groundwater  
5 program in the pesticides office.

6 My firm specializes in turf chemical risk  
7 assessment. We work for municipalities and we work  
8 for developers. We do water quality monitoring. We  
9 do very high-end risk assessment and we publish our  
10 work in the scientific literature. We have worked on  
11 about 130 golf/turf related projects over the years,  
12 including in Connecticut. Okay.

13 Our overall approach -- well, first of all, our  
14 overall goal is to design and operate -- design and  
15 set it up so it can be operated as an environmentally  
16 sound golf course. Our overall approach was to build  
17 on work that was done before. There was a previous  
18 application. There was an approved inland wetlands  
19 permit. It was -- some people call it the Taylor  
20 application. And there was some good work done,  
21 extensive and intensive studies done in the areas of  
22 risk assessment, turf management, and water quality  
23 monitoring. We evaluated that, but that was done --  
24 it was approved -- it was accepted in 1999. Most of  
25 the work was probably done in 1997 or 1998 and

1 reflecting some review comments in 1999. So we  
2 updated that. We focused on that and we looked for  
3 any areas that we could build on. And if there had  
4 been any regulatory changes, we worked on that. We  
5 visited the site ourselves. Of course we walked the  
6 site extensively. And we relied heavily on the  
7 tremendous work done by the two Michaels that you  
8 heard tonight.

9 And we also took a rather unique approach. We  
10 also have developed two lawn care management plans.  
11 The focus up until now has been on the golf course,  
12 if you even go back to the original submission. But  
13 the client River Sound wants to have -- is looking at  
14 the site as a whole. And so it's not good enough  
15 just to do risk assessment/risk management of the  
16 golf course, but do something that's been done rarely  
17 anywhere and that is develop lawn care management  
18 plans. One for homeowners that can be used, that's  
19 user friendly, and the other to be given to  
20 professional lawn care companies who would be hired  
21 by the homeowners.

22 The risk assessment/risk management focus is one  
23 of proactive environmental stewardship. The idea is  
24 if you do enough work up front, there shouldn't be  
25 any problems. But just in case there's an insurance

1 policy that's called the water management monitoring  
2 program. And I'll talk about that at the very end.

3 The difference in the focus -- previously the  
4 focus was drinking water, which of course is critical  
5 to protect, and aquatic organisms, which in terms of  
6 the previous team meant fish. But here we had this  
7 new work done, and a lot of mapping, and a lot of new  
8 amphibian species, not new species, but new for this  
9 site found by Michael Klemens. And certainly a lot  
10 more work done in wetlands and botany by Michael  
11 Klein. And so our focus expanded beyond what was  
12 previously approved to include the amphibians, state  
13 listed plants, and reptiles.

14 Turf management. Our basic philosophy is that  
15 if you grow in turf quickly and keep it healthy, you  
16 minimize the need for pesticides. That's a fact.  
17 Also, there's a focus -- we have a focus of control  
18 rather than eradication. So just because -- if you  
19 see one grub in a square foot of fairway doesn't mean  
20 you have to spray it until it glows. You know, the  
21 threat there can be threshold. Thresholds have been  
22 established for insect, weed, and disease pests. For  
23 example, two grubs per square foot of green may be  
24 intolerable, but eight grubs may be tolerable in a  
25 square foot of fairway, which is more than a trivial

1 example, because the greens probably make up about  
2 5 percent of the golf course area, whereas the  
3 fairways, I don't know, probably 25 or 30 percent of  
4 the golf course area; the managed turf.

5 Also, there was -- when we went through the  
6 previous record, we saw there was a concern written  
7 by a reviewer who was somehow associated with the DEP  
8 entitled Lack of Organic Approach to a Golf Course.  
9 Although we agree with the previous applicant that a  
10 totally organic golf course is not feasible, on the  
11 other hand, we feel that there's a lot of good  
12 organic products out there that should be tried as a  
13 first level of attack in this in terms of turf  
14 management. And so we took a number of organic or  
15 what we call biorational products. Biorational means  
16 that's an inherently species specific and has a  
17 natural origin. And we've taken that number from  
18 zero to 11. So that's in there. And also, our risk  
19 screening, which you'll hear about, knocked out about  
20 15 of the previously existing pesticides.

21 Now, our risk assessment focus and approach --  
22 excuse me, Art. Our approach and our results can be  
23 thought out as a pyramid. Underlying this pyramid --  
24 maybe you can see it better here.

25 CHAIRMAN MCINTYRE: Can you state the name of

1           that.

2                       MR. COHEN: Risk Assessment and Pesticide  
3 Regulatory Review Process.

4                       CHAIRMAN MCINTYRE: Thank you.

5                       MR. COHEN: Underlying this pyramid --

6                       MR. BRANSE: Hold on a second.

7                       (Tape is changed.)

8                       MR. COHEN: Underlying the base -- base of this  
9 pyramid is the EPA regulatory pyramid. EPA requires  
10 somewhere between two dozen and over 100 studies in  
11 the areas of toxicology, aquatic toxicity, avian  
12 toxicity, et cetera, et cetera, depending on the use  
13 patterns of the pesticide, and the structure of the  
14 molecule, and what the EPA scientists think might be  
15 expected. And these studies cost millions of dollars  
16 to do, take many years to do, and it takes EPA  
17 several years to review the studies. And based on  
18 those studies EPA makes a risk benefit approach to  
19 each specific use pattern of each pesticide or of  
20 course they deny pesticide registrations as well.

21                       After EPA grants that registration, then it goes  
22 to the states; in this case Connecticut. So there's  
23 approximately about 1,000 pesticide active  
24 ingredients here that translate into many thousands  
25 of pesticide products. And in the State of

1 Connecticut I don't know exactly, but I would guess  
2 that there are probably 50 to 80 products that can be  
3 active ingredients on turf and ornamentals.

4 At this point this is all you need. The label  
5 is the law. And for conventional development the  
6 pesticide risk assessment regulatory process stops  
7 right here. Right here after EPA, after federal and  
8 state regulation.

9 What we have done is we've added in fact a third  
10 layer of regulation by reducing the candidate list of  
11 pesticides further with risk assessment. We had tier  
12 one risk screening, building on the work that was  
13 done before and approved before and just enhancing it  
14 and expanding it to include amphibians.

15 Now, the amphibian work we did -- ironically,  
16 it's been some pioneering work. The first time that  
17 anybody developed a means to estimate pesticide  
18 toxicity to amphibians was us because of a project in  
19 Connecticut. We presented that at a couple of  
20 international scientific meetings since then and it's  
21 been accepted. And as a result by -- as a result of  
22 concerns expressed by Dr. Klemens, we had to develop  
23 a new toxicity assessment procedure, and that is -- I  
24 should say exposure and toxicity assessment  
25 procedure, and that is for the juvenile adult

1           amphibians that crawl across the fairways as they  
2           migrate upland as part of their life cycle, what's  
3           the potential for the pesticides to penetrate their  
4           skin; the belly of their skin. You all may think  
5           this is esoteric, but people like me get excited  
6           about this. So we'll probably write this up for a  
7           journal publication somewhere.

8           Anyway, after that risk screening is -- these  
9           are conservative risk-screening models. Conservative  
10          means err on the side of environmental protection.  
11          And after this is done and if there's no concern,  
12          then this pesticide is included in the process. If  
13          there is a concern, then there's risk management.  
14          Risk management can take the form of prohibiting  
15          pesticide use at this course, which we have done for  
16          over a dozen products, restricting its use to certain  
17          areas or restricting its time limit.

18          So that's the overall. And so some preliminary  
19          results are we found it necessary -- we are  
20          recommending restrictions of use. I have talked just  
21          about pesticides and later on in questions and  
22          answers and in our report we'll submit we'll talk  
23          about fertilizers. We'll be recommending some  
24          restrictions in use of water soluble fertilizers,  
25          that they might harm the amphibians in the larva



1 stages. And we are recommending restrictions in some  
2 pesticides and we are recommending 11 organic  
3 products be used as the first line of defense.

4 Wrapping up here, water quality monitoring.  
5 We've reviewed the record, the comments done on the  
6 previous -- there's a good water quality monitoring  
7 program that was set forth in the previous permit.  
8 And what we have done is in response to comments in  
9 the record, we've expanded it, we've updated it. We  
10 do water quality monitoring golf courses all over the  
11 country. We've published in the area. We've  
12 expanded the number of monitoring wells to I think  
13 it's six. We've expanded the number of pesticides  
14 and included pesticide metabolites. Because  
15 sometimes pesticide metabolites can be more toxic  
16 than the pesticides themselves. We've expanded the  
17 surface water sampling points and we've also expanded  
18 that program to include sediments.

19 So our bottom line is that if you just go for  
20 the first two levels of the pyramid, you're probably  
21 going to be okay. And monitoring we have done all  
22 over the country. Generally shows very, very low  
23 detections of pesticides in groundwater and surface  
24 water golf courses. But we have added in fact this  
25 third layer of regulation that says, okay, now we are

1 saying you're probably going to be okay, that we are  
2 just about certain you're going to be okay. And now  
3 we are saying that okay, if you don't want to believe  
4 us, we have this insurance policy here called the  
5 monitoring program.

6 The point of compliance here is right at the  
7 golf course fairway or green. So we are not saying  
8 we are going to keep contamination from migrating off  
9 site. We are saying we are keeping it from leaving  
10 the fairway. We are going directly underneath the  
11 fairway green to the groundwater. And that's the  
12 program we have. Thank you very much.

13 And our next speaker I guess will be Bob  
14 Landino.

15 MR. LANDINO: We've spent just a little over an  
16 hour talking about science. And while some of it was  
17 very detailed and difficult to understand for laymen  
18 like myself, we thought it was important for you to  
19 understand the effort that has gone into every aspect  
20 of understanding the biology as it relates to our  
21 proposed site plan.

22 We have two more speakers, Mr. Chairman. One is  
23 Arthur Hills, who was going to make a presentation of  
24 the golf course itself. And the second is myself to  
25 talk about the open space plan before we conclude.

1 But we didn't know -- that's why I interrupted,  
2 because I didn't know if you wanted to take a little  
3 break or if you wanted us to keep going.

4 CHAIRMAN MCINTYRE: I think if nobody from the  
5 board objects, we should take a ten-minute break and  
6 then get back into it. And then we'll go into the  
7 public sector. We are going to take a ten-minute  
8 break at this time.

9 (Recess)

10 CHAIRMAN MCINTYRE: Mr. Landino, anytime you're  
11 ready we can proceed.

12 MR. LANDINO: Good evening, Mr. Chairman. Bob  
13 Landino, BL Companies.

14 Mr. Chairman, I would like to introduce Arthur  
15 Hills, who was the architect of our golf course in  
16 the proposed development plans. And he'll give a  
17 description of his design philosophy, how it  
18 integrates with the environment, and talk a little  
19 bit about each hole. And then what I would like to  
20 do is spend maybe ten or 12 minutes talking about the  
21 open space plan itself.

22 Before I do that I just wanted to make a comment  
23 or two about what you just heard. And some of it is  
24 esoteric. Much of it takes me awhile to understand,  
25 and I have been in the business for a couple of

1           decades now. But we thought that it was important  
2           for this commission and for the public to understand  
3           the level of effort that this group and this team  
4           went into, the investigations in order to truly  
5           understand the biodiversity and the ecology of this  
6           land. And it began virtually immediately after we  
7           obtained approval of the opportunity to apply for  
8           this application last September of 2003. We've spent  
9           a good part of ten months performing enormous amounts  
10          of field investigations in all aspects of wildlife,  
11          flora and fauna, and on watercourses and vernal pools  
12          as well as understanding groundwater, the issues of  
13          chemicals related to the environment, and in how  
14          managing the golf course fairway and all lawns for  
15          that matter would be impacted as a result of  
16          controlled fertilizers and pesticide management. So  
17          with that I would like to introduce Arthur, and then  
18          I would like to talk to you in some level of detail  
19          about the plans itself. Thank you.

20                   CHAIRMAN MCINTYRE: Thank you.

21                   MR. HILLS: Thank you, Bob. Bob mentioned  
22                   earlier that I had been at this work for quite  
23                   awhile. He said half a century. Well, not quite,  
24                   Bob, but it's getting there.

25                   Mr. Chairman and Commissioners, my part of this

1 presentation tonight is to describe the golf course  
2 as proposed in this community.

3 Our firm, Arthur Hills/Steve Forrest and  
4 Associates, has been involved, actively involved in  
5 designing golf courses for 38 years, since 1966. In  
6 particular, we have been recognized for the design of  
7 environmentally sensitive courses. To date during  
8 that period of time we have designed approximately  
9 180 golf courses, most of them in the U.S., a few in  
10 Europe and also in Asia. In addition to that we have  
11 been involved in the renovation of about 125 courses,  
12 including some of the leading courses in the country,  
13 such as Oakland Hills where they held the Ryder Cup  
14 just a few weeks ago, Oakmont Country Club in  
15 Pittsburgh where they are having the U.S. Open in  
16 2007, Congressional Country Club where they are going  
17 to have the U.S. Open in 2011. Those are substantial  
18 golf courses.

19 We have been involved in some other courses of  
20 note, including the Longer Berger golf course near  
21 Columbus, Ohio, which in 2001 was awarded the award  
22 of the number one new course in the country that  
23 year. Bay Harbor Golf Club in Petoskey, Michigan;  
24 and Lighthouse Sound in Ocean City, Maryland;  
25 Shepherds Hollow in Clarkston, Michigan; Shaker Run

1 in Lebanon, Ohio are all included in the most recent  
2 lists of the top 100 courses available for play by  
3 the public in Golf Magazine and in Golf Digest  
4 magazine. Other courses of note that we have  
5 designed include The Hills course at Palmetto Dunes  
6 Resort at Hilton Head, which is -- many, many golfers  
7 have been there, play golf, go there on vacation.  
8 The Half-moon Bay course in San Francisco, which is  
9 right on the ocean. It took awhile to get that golf  
10 course permitted. And Big Horn golf course in Palm  
11 Desert, in Palm Desert, California.

12 Our firm's reputation rests on our ability to  
13 design courses that are playable yet challenging;  
14 that is, courses that players of all level of ability  
15 will enjoy. They'll come there and they'll enjoy it  
16 and they'll come back again. They won't say this is  
17 too much for me. And that's part of the design of  
18 the courses proposed on this property. It's a golf  
19 course that players of all level of ability will  
20 enjoy playing.

21 As I say we have a significant amount of  
22 experience in designing golf courses that are  
23 sensitive to the environment. We build golf courses  
24 that are natural, that lie on the land with a minimum  
25 of earth moving, a minimum of disturbance and take

1 advantage of the natural features of the property.  
2 Every piece of property, probably like every person,  
3 has its own individual personality. And we try to  
4 complement that personality in the design of our golf  
5 courses.

6 Examples of our work of an environmental note  
7 are the Collier's Reserve Golf Club in Naples,  
8 Florida, which became the first in the world to  
9 receive the Audubon International Cooperative  
10 Sanctuary Signature Status. And then in 2001 a  
11 course that we did in Portugal, Quitadi  
12 (phonetically) Marina, was the first in Europe to  
13 receive the Audubon International Sanctuary Award for  
14 environmental sensitivity. And we have received many  
15 other rewards relating to the sensitive environmental  
16 concern as we designed those courses.

17 What's exciting about this project to me and  
18 which was brought up earlier by the other presenters,  
19 particularly Stuart alluded to it, was that these  
20 awards that we have received have gone this far.  
21 This project is going to take all of the good things  
22 that have been put into environmental thinking on  
23 golf courses to date and go raise the bar, go  
24 farther, do more to work more carefully with the  
25 environment. I can see that this golf course is

1 going to be a standard for comparison for golf  
2 courses that are developed across the country in the  
3 future. I think it's the best thing that's ever  
4 happened is that there's concern about environmental  
5 protection in the design of golf courses. And we  
6 have spent the last 20 some years focusing on that,  
7 along with the other aspects of golf course design.

8 On the subject of the golf course itself, I  
9 would say suffice it to say that the golf course is  
10 designed to be just under 7,000 yards long, although  
11 we could make it longer. Whereas, most of the golf  
12 courses -- well, not most, but many of the leading  
13 golf courses today are being designed to be 7,400 to  
14 7,500 yards long. As I say our goal is to maintain  
15 the ecological quality while working within the  
16 environmental constraints and balancing this with the  
17 realities of golf playability.

18 On the golf course we have returning nines. We  
19 have beautiful views throughout the property. And  
20 the property is elegant in terms of the golf course.  
21 We have a variety of lakes and terrain. As I say the  
22 golf course is playable, designed to be playable by  
23 all level of players. And we anticipate that because  
24 of the design it will be easy to maintain it  
25 carefully and still at a good level of conditioning.



1 Each hole has something special about it, perhaps  
2 compelling. I'll talk about that in a little bit.

3 This is a little bit like taking out an album of  
4 pictures of your kids and talking about them, but  
5 anyway. I'll start and do so. This residential  
6 community here and then --

7 CHAIRMAN MCINTYRE: Could you identify the  
8 chart.

9 MR. HILLS: The golf course leads in --

10 MR. BRANSE: Just state which drawing you're  
11 referencing as you talk.

12 MR. HILLS: Yes. I'm referring to the layout of  
13 the golf course holes one through nine. It's one of  
14 two drawings. The other being holes ten through 18.

15 MR. BRANSE: These are in the record,  
16 Mr. Royston?

17 MR. ROYSTON: These will be put into the record.  
18 At the end of the hearing an 11-by-17 of all the  
19 boards will be put into the record.

20 MR. BRANSE: And at what point will full size of  
21 these drawings?

22 MR. ROYSTON: You'll get also the full size of  
23 the drawings before the end of the public hearing  
24 process.

25 MR. BRANSE: Thank you.

1           MR. HILLS: Okay. This nine holes is in an area  
2           that's ample for nine holes of golf. It starts here  
3           at the clubhouse. The first hole plays down to the  
4           south. It's a downhill hole. As you stand on the  
5           first hole, you'll be able to see the entire hole.

6           The second hole is a par five hole. It plays  
7           slightly uphill. It fits within a forested area.

8           The third hole probably is an excellent example  
9           of how this golf course has been fine tuned to relate  
10          to the site, to the environment. These tees are on a  
11          high knoll. It dips down in the valley, a  
12          lowland/wetland, plays over that wetland to another  
13          high knoll with -- where the green is located.

14          Then you go over to the fourth hole. And the  
15          fourth hole tees are just before a little wetland  
16          crossing, playing to an ample landing area. And then  
17          between the ample landing area and the green is an  
18          area of wetland that you would hope you would avoid,  
19          but you might hit into it.

20          The fifth hole then is another par three,  
21          similar in some fashion to three in that it plays  
22          from two high knolls, plays across to -- across the  
23          lowland to a green site that's up. That's pretty  
24          much the way the whole golf course is, is that it  
25          just skirts wetlands, plays on the higher ground and

1 takes advantage of the positive aspects of the site  
2 in terms of the golf course.

3 Seventh hole is over along in here. I don't  
4 know that there's anything particularly noteworthy in  
5 terms of the environment, except that it respects the  
6 environment, which of course is very noteworthy.

7 This hole plays back towards the clubhouse.  
8 It's a par five hole, has a lowland crossing before  
9 the green. Again, that will probably be a pretty  
10 challenging golf hole.

11 And nine returns to the clubhouse all on upland.  
12 In the process of refining this golf course, this  
13 hole -- as an example, this green was moved from over  
14 closer to the wetland to well away from the wetland.

15 Then the second nine starts over here, plays  
16 well above the Pequot Swamp Pond, plays out in the  
17 opposite direction from one, plays --

18 And then the next hole has tees here just above  
19 the wetland, playing up to upland and then onto the  
20 green.

21 The 12th hole, again, is a hole -- it just  
22 fits onto the topography perfectly. All of these  
23 holes have been refined time and again.

24 After we walked the golf course in February and  
25 after meetings with the environmental consultants, we

1           made several adjustments to the routing to save  
2           trees, to minimize grading as well as protect the  
3           wetland and vernal pools. I haven't even mentioned  
4           vernal pools to this point, because in every instance  
5           our golf course is completely avoiding the vernal  
6           pools.

7                     After these studies were made, there were seven  
8           routing changes to the previously approved golf  
9           course to benefit, protect, purify lowlands, that  
10          kind of thing. As an example of that, hole number 15  
11          was relocated so that the 100-foot buffer of the  
12          vernal pool number seven was avoided. And also,  
13          number seven and 12 were similarly relocated.

14                    Of the 893.2 acres in the Old Saybrook lot area,  
15          approximately 151 acres are within the golf course.  
16          That includes all three buffers and all parts of the  
17          golf course. Of that 151 acres, approximately  
18          7 percent of that acreage will be dedicated to tees  
19          and greens. Those are the areas that get the most  
20          intense management. Twenty-five percent of the 151  
21          acres goes to fairways. Approximately 43 percent is  
22          in low maintenance roughs and 25 percent of the  
23          acreage will be dedicated to native grass areas which  
24          require no maintenance.

25                    Now, some of those native grasses will be

1 introduced and they will be placed in places like --  
2 if you were going from the tenth hole to the 11th  
3 hole, there's kind of some no-man's land to the left,  
4 tees in every situation like that. In those areas  
5 instead of having mowed grass down to the perimeter  
6 or down to the trees, native grass plantings will be  
7 established on all of those kinds of banks just to  
8 naturalize the golf course. Just one more part of  
9 the puzzle or of the picture, putting together to  
10 create very much of an environmentally friendly golf  
11 course.

12 So I would say in summary that we have a golf  
13 course which, because of its careful planning, will  
14 work in harmony with the site's overall environment.  
15 Thank you.

16 MR. LANDINO: Thanks, Arthur. I'll just give  
17 Dennis a second to change the boards.

18 I'm going to conclude by talking about the open  
19 space plan itself. And Mr. Chairman, our firm has  
20 dedicated itself to taking large sites and making the  
21 commitment to develop them responsibly. And River  
22 Sound Development has made a huge commitment, as you  
23 can see, in assembling a team that's second to none  
24 nationally in understanding the development  
25 constraints associated with this site and then

1           planning accordingly. And Dr. Klemens's comments  
2           earlier that this is a rare opportunity to  
3           proactively plan rather than react is true not only  
4           of vernal pools, but of every aspect of the work that  
5           we have done over the past 18 months.

6           What I would like to start talking about is open  
7           space. And while most folks that oppose this  
8           development do so with the desire to see this land  
9           remain undeveloped, it was our desire to understand  
10          how to preserve as much of the open space as possible  
11          for reasons of preserving biodiversity, for reasons  
12          of preserving the ecology of the site, but most  
13          importantly to do the best job we can in  
14          understanding the resources and planning accordingly  
15          in a way that not only results in a responsible  
16          development that, again, functions economically, but  
17          also does its best to make every aspect of this site  
18          work within the context of the environment. And at  
19          the end of the day, with all of what you've heard  
20          this evening, this site proposes to dedicate to the  
21          Town of Old Saybrook 514 acres of land that will not  
22          be disturbed at all, will remain in its natural  
23          state, and will be -- and we propose that that land  
24          will be dedicated in a way that preserves it as  
25          public open space, publically accessible for use by

1 all.

2 Currently while the site has value, it's  
3 privately owned and the public cannot enjoy the  
4 preservation aspects of this land. And we believe  
5 this is a unique opportunity for the region and even  
6 for the state to have one of the largest contiguous  
7 parcels that remains in southeastern Connecticut and  
8 have it be constructed in such a way so that the town  
9 owns it, and controls it, and makes it available to  
10 the public, the town residents, and to the residents  
11 of Westbrook as well.

12 In addition to that, we are proposing an  
13 additional plus -- 65 acres, plus or minus, that will  
14 be dedicated in a conservation easement format that  
15 would restrict property owners from further  
16 developing their land beyond a certain point. So  
17 that at the end of the day we have plus or minus  
18 575 acres that will remain in its natural state from  
19 its present condition; roughly 62 percent of the  
20 total parcel size. That excludes all of the areas  
21 that Arthur talked about within the golf course  
22 itself, including the 25 percent or so of the land  
23 that remains as part of the golf course, but is  
24 virtually in its natural state with no artificial  
25 maintenance at all.

1           So what remains, from our point of view, is a  
2           public open space environment which -- in which we  
3           have proposed to build a nature center and an  
4           education center that would have parking  
5           accessibility so that from a usage standpoint, from  
6           the enjoyment of public space, someone could begin at  
7           that point and understand some of the work that was  
8           invested in understanding the biology and ecology of  
9           the site and they could gain an understanding of what  
10          nature has to offer them through natural trails and  
11          through public accessibility of the remaining lands.  
12          And that we believe is the benchmark of this proposal  
13          and why your regulation gives us a great opportunity  
14          to propose something that is quite a bit different  
15          from what we talked about last week when we proposed  
16          a subdivision plan to you that was based on your  
17          existing zoning in a conventional subdivision format  
18          which virtually made use of almost every aspect of  
19          the valuable resources in the site itself.

20                 And as we moved forward from that, we then  
21                 decided to make an investment in understanding what  
22                 people's needs were in the region. And we, again,  
23                 engaged a nature firm, Robert Shalsleffser  
24                 (phonetically), the report that you saw last year,  
25                 and we tried to understand what buyers would want in



1           this marketplace. And while traditionally what  
2           typically gets built in Old Saybrook, and Essex, and  
3           Westbrook are detached single-family residential  
4           homes on one acre or more, because that's what the  
5           zoning has always dictated. And as a result you've  
6           not only created an environment -- we have not only  
7           created an environment that has very little  
8           flexibility to manage the natural environmental  
9           resources of each site that's proposed for  
10          development, but there is no residential diversity  
11          and product choice for folks that want to come in and  
12          live and move into the area.

13                 So following a detailed study of the region, we  
14          developed four unique choices that we propose as part  
15          of the open space plan. The first is that same  
16          product in the three-quarter acre lots that we will  
17          describe in a minute are basically the 2,500 square  
18          foot, plus or minus, detached single-family homes  
19          with three or four bedrooms on a lot that is fairly  
20          typical of the neighborhood surrounding it, except  
21          that we've made an investment in understanding the  
22          environment, which historically wasn't done just  
23          simply because that was the nature of the business  
24          back in the '70s and the '80s when those developments  
25          were proposed and constructed.

1           In addition to that we are proposing estate  
2 homes with lots in excess of \$1 million on  
3 several-acre parcels. And again, that's at the other  
4 end of the spectrum where we believe there is a need  
5 for high-end custom home sites that would be  
6 available for folks that would either be empty  
7 nesters or families that could afford that type of  
8 residential choice. Those make up roughly the unit  
9 counts as part of the 248. Twenty-four estate homes  
10 are proposed. And of the three-quarter-acre lots,  
11 which we call half acre, but they are actually  
12 averaging about three-quarters of an acre, 45 lots.  
13 So 69 lots out of the 248 are those two product  
14 types. And we believe that they are important and  
15 essential to the overall program of providing  
16 diversity in the market and marketability of this  
17 plan.

18           But the core of this development and what makes  
19 it exciting for us is the -- are the villages  
20 themselves. And we are proposing two, if you look at  
21 it from a planning sense. Three villages that  
22 comprise the balance of the units which include  
23 village attach and village detach of 179 total units.

24           And I would like to talk a little bit about  
25 that, because that's what Dennis Goderre and I have

1 spent a good part of our careers working toward. And  
2 many of the folks that you heard tonight, Randall  
3 Arendt and others, have really spent their  
4 professional careers trying to learn about building  
5 responsible neighborhoods and then communicating it  
6 to the boards and commissions that ultimately make  
7 legislative decisions on how to develop property  
8 responsibly. And we long ago departed from pursuing  
9 traditional or conventional subdivisions. And as we  
10 learned about some of the new forms of planning that  
11 were being conducted, we tried to become involved in.  
12 And over the past several years this has been a  
13 commitment that we made in our firm to try to  
14 implement as often as possible. And I'm speaking  
15 mostly of what's typically called traditional  
16 neighborhood development or traditional neighborhood  
17 design. Some folks call it new urbanism. But what  
18 we are trying to accomplish is developing a  
19 neighborhood that is oriented to people and not to  
20 vehicles.

21 And when we look at some of the neighborhoods in  
22 the '30s and the '40s where some of us grew up -- I  
23 grew up in New Haven. And many of us come from the  
24 cities of Connecticut, because we're Connecticut  
25 natives. And those cities were typically about

1 neighborhoods that had houses of relatively high  
2 cluster, relative density in that they were closely  
3 spaced together. The houses were typically sited  
4 close to the street line. And very often the designs  
5 were people oriented and human oriented in that front  
6 porches and other aspects of the home dominated the  
7 central core design philosophy.

8 And in those days public transportation and  
9 walking were much more important than the car itself.  
10 And as the car became dominant in society in the '50s  
11 particularly is when it began, folks began to  
12 suburbanize and move to the suburbs. And the type of  
13 design that fostered the conventional subdivision  
14 zoning that we see today were designs that were  
15 vehicle dominated. Houses became spaced much farther  
16 apart. Typically in this area one- or even two-acre  
17 lots. In Essex I believe two-acre zoning was  
18 recently legislated within the last couple of years.  
19 And long driveways, cul-de-sac streets and homes with  
20 garages in some cases being the central design focus  
21 became dominant in the marketplace. And it really  
22 changed the character, from our view, of how people  
23 viewed the community and how they viewed their  
24 investment in the community from a socioecological  
25 standpoint -- socioeconomic standpoint in that

1 suddenly they were going to work in a different  
2 place. They weren't working in their same community.  
3 Typically they drove there and would go home. And  
4 the home became almost a stopping place rather than a  
5 place where they lived, worked, and played.

6 And as some of us got a little older and we are  
7 in the business and in the planning community, and  
8 architecture community, and the design communities  
9 all began to look at those neighborhoods and what  
10 made them special. A new design jaunter developed  
11 over the last decade or so. And it's been applied  
12 and it conforms with all the traditional neighborhood  
13 design.

14 And I'll just give you a little bit of  
15 background in that just to point out that when we  
16 looked at this site I guess roughly about 18 months  
17 ago, we believed that traditional neighborhood design  
18 was an ideal manner in which we could propose  
19 neighborhoods that would not have significant impact  
20 on a large parcel and a valuable parcel such as this.  
21 And at the end of the day if we combined the quality  
22 of TND with the uniqueness of a golf course community  
23 and we made the investment in understanding the  
24 biology and ecology of the site, we could really have  
25 the best of both worlds in that we could propose a

1 reasonable subdivision that was taking maximum  
2 advantage of open space and maximum advantage of  
3 preserving the land forms, and at the same time using  
4 the research from -- the extensive research from  
5 Mr. Klein, Dr. Klemens and others, we could modify  
6 that design, as we have done over the past year, to  
7 reflect as much of the environment as we can in how  
8 we plan and propose roads and home sites. And that's  
9 what we propose this evening and that's what our open  
10 space plan consists of.

11 Some folks have asked why the golf course. Why  
12 not just the neighborhoods themselves. And we  
13 believe there are three basic reasons why it's  
14 essential as part of this development proposal.  
15 First, is property values. Whenever a golf course is  
16 included as part of the community, those values will  
17 be significantly greater. And not only the values  
18 themselves, but, second, the absorption rates, which  
19 is the amount of time in which it takes to sell  
20 homes. And while those typically are economic  
21 issues, from a developer's standpoint we believe that  
22 they are equally important to the town as well,  
23 because they represent the way in which the town is  
24 going to get maximum financial benefit from this  
25 development. As the home prices average well in

1 excess of half a million dollars, as we presented to  
2 you last year, this development will net the town  
3 close to a million dollars a year upon full  
4 construction and occupancy with the golf course.  
5 That's after services, after the impact to the school  
6 systems, et cetera.

7 So, again, we felt that the golf course greatly  
8 accelerates the pace of that benefit, both for the  
9 developer and the town, and that uniqueness makes it  
10 essential to be included as part of this development.

11 Also, the course itself has value as a third  
12 point in that it pays taxes. It has members and it  
13 has very little impact to services. So we felt it --  
14 again, it was another way for both the applicant and  
15 the town to gain a tangible benefit through the  
16 inclusion of the course as part of this development.  
17 High level managing, all those issues is the fact  
18 that the golf course makes this traditional  
19 neighborhood a very unique community. And as I'll  
20 discuss in a moment when I go through the plan, the  
21 course itself really brings added value, as does the  
22 open space in the uniqueness of the neighborhood to  
23 the region. And the fact that I don't know of  
24 anything like this in the New England states and,  
25 actually, even heading down toward Washington, D.C.

1 and Maryland where our range is and where we perform  
2 most of our work, I can't think of a development that  
3 represents so many unique qualities as this one does.  
4 And from that point of view we believe both the golf  
5 course and the open space become part and parcel with  
6 that uniqueness.

7 But what I would like to do is talk specifically  
8 about the plan and then make some conclusory remarks,  
9 Mr. Chairman, and we can open it up to questions.  
10 And we apologize for the lengthiness of this  
11 presentation, but we thought it was important for you  
12 to hear some of the background.

13 As you have heard before, we are proposing an  
14 east/west connector, a roadway that will connect  
15 primary access at State 153 in Westbrook to Bokum  
16 Road in Old Saybrook. And we are proposing it in a  
17 way which, to the extent possible, minimizes  
18 disturbance to existing land forms and avoids inland  
19 wetlands and watercourses and respects much of the  
20 recommendations of Dr. Klemens, et al. And as a  
21 result that east/west connector road and the entire  
22 development in fact proposes to fill zero inland and  
23 wetlands watercourses. And in fact, we have three  
24 very narrow wetland crossings on the east/west road  
25 itself, but at the end of the day those will be



1 spanned and the golf course, the home sites, and the  
2 road systems on the entire development do not fill  
3 one square foot of inland wetland and watercourse,  
4 which I think is a tribute to the team and I think it  
5 demonstrates our seriousness about the development on  
6 this site.

7           Once the east/west connector roadway is in  
8 place, we are proposing several neighborhoods. But  
9 the core neighborhoods are the two traditional  
10 neighborhood villages where we have single-family  
11 detached and two-family attached homes all placed and  
12 sited in a way that are such -- in a way that they  
13 are closely spaced together and that they are close  
14 to the front line of the street, and that we try, to  
15 the extent possible, take particles of green space,  
16 and town greens, and public spaces that connect the  
17 home sites. And if you notice, if you look at some  
18 of the renderings that are placed at the base of the  
19 easles and up at the top of the stage, there's very  
20 little evidence of automobiles. And what we made a  
21 very strong commitment to do is to take garages and  
22 any evidence of the auto itself and put it on back  
23 lanes or small streets that aren't streets, that are  
24 considered the front of the homes themselves. And in  
25 those back lanes owners of homes access their

1 garages, which, again, are designed in a way so that  
2 they are not visible or barely visible to the streets  
3 that -- where people will walk on and where visitors  
4 will drive on.

5 So if you look at some of these renderings,  
6 you'll see diverse New England architecture, front  
7 porches, picket fences, street trees, sidewalks, and  
8 streets of a width of a very human scale, not of a  
9 vehicle scale, with the goal of creating a sense of  
10 community in a neighborhood that is, again, for new  
11 construction unique to this region. But for those of  
12 us that were born and raised in New England, we see  
13 much of this in towns like Essex, Connecticut. Main  
14 Street is a pretty good example of the type of  
15 density and context that this would represent without  
16 the commercial space. This is a retail -- I mean  
17 this is a residential development.

18 With that as the backdrop, with the village as  
19 the backdrop, we then have other small areas of  
20 development for both the three-quarter-acre lots  
21 along the western portion of the site, again, in  
22 areas carefully placed to maintain the commitment of  
23 Dr. Klemens's discussion about connectivity. And  
24 then we propose an estate lot environment with the 24  
25 home sites along the northern reaches of the site,

1           again, as an extension of the east/west road. But if  
2           you remember Dr. Klemens's graphic, this was the  
3           white area. This was the area in which the disks  
4           were not present. And in fact, there was very little  
5           need to preserve upland area in that location to  
6           maintain biodiversity and connectivity within the  
7           vernal pool system. And again, much of that has  
8           evolved over time as we learned more about the land  
9           itself.

10                   One important public safety aspect of this site  
11           is the proposed fire substation, and that was an idea  
12           that actually came from town staff, not from us. And  
13           a short period of time after it was suggested, we  
14           agreed to do it. And the plan calls for an apartment  
15           or a residential apartment to be connected with that  
16           fire substation, which would give an opportunity for  
17           a volunteer fireman or woman to live in that  
18           environment and actually be immediately available for  
19           a first responder opportunity in the event of an  
20           emergency. In addition to that, if that resident was  
21           working or not on call, then certainly volunteer fire  
22           people from this immediate vicinity could easily  
23           access that fire substation.

24                   The benefit of the fire substation is -- I think  
25           is intuitive to the development itself, but over the

1 last 15 or even 20 years the volunteer fire  
2 department for both the towns of Westbrook and Old  
3 Saybrook have always made an issue of the fact that  
4 the first responder times were very poor or at least  
5 not nearly as good as they were in the southern  
6 reaches of the town simply because of the proximity  
7 of equipment and fire stations. And there was always  
8 a concern about public safety and expressed by chiefs  
9 as far as I can remember that there was really a need  
10 for a fire substation in the northern section of  
11 either Westbrook or Old Saybrook in order to respond  
12 to emergencies in those locations in a more  
13 expeditious manner. And this plan in many ways  
14 solves that issue not only for the preserved  
15 neighborhood itself, but for the neighborhood along  
16 Bokum Road, Route 153 and Ingham Hill Road in Old  
17 Saybrook. By providing an east/west connector road,  
18 which obviously gives an opportunity for emergency  
19 vehicles to traverse, but also with the emergency  
20 access driveway proposed at Ingham Hill Road in Old  
21 Saybrook and the combination of those three access  
22 points for emergency vehicles will virtually solve  
23 the issue of a concern that has been raised by  
24 leadership in the fire department about first  
25 responder time in the northern reaches of the town.

1           So we thought, again, that was a real important  
2 piece of -- that we needed to include as part of this  
3 development. And it really came from town staff.  
4 But it was, again, something that we quickly realized  
5 was not only a benefit to us, but a benefit to all.

6           That's an overall summary of the plan itself.  
7 The total proposal includes 248 units. That's  
8 compared against the 293 units from the conventional  
9 subdivision plan that we presented last week. Again,  
10 we are proposing to dedicate to the town 514 acres of  
11 land remaining in its undisturbed state with a nature  
12 center. We are proposing that the plan be developed  
13 in a way that takes maximum advantage of land forms  
14 and the environment as discussed earlier. And we  
15 believe that the golf course itself is integral and  
16 essential to make the plan a success at every level.

17           Mr. Chairman, that completes our presentation.  
18 Thank you for being patient with us, and we'll be  
19 happy to answer any questions that you have.

20           CHAIRMAN MCINTYRE: Thank you, Mr. Landino.

21           At this time I am going to open up the floor to  
22 the public. Just a few minor groundrules. When you  
23 do speak please state your name and your address and  
24 be courteous of others while they are speaking.

25           MR. BRANSE: And Mr. Chairman.

1                   CHAIRMAN MCINTYRE: Yes.

2                   MR. BRANSE: And come to the podium so they are  
3 on the mike.

4                   CHAIRMAN MCINTYRE: Come to the podium, also.

5                   Is there anyone in the public wishing to speak  
6 at this time? Mr. Keeney.

7                   MR. KEENEY: James Keeney, 16 Bayside Road, Old  
8 Saybrook, Connecticut.

9                   Dr. Hill -- Mr. Hill, I'm an avid golfer, but  
10 I've been so busy trying to deal with this issue for  
11 the last two years I haven't been able to play any  
12 golf. Sad state, isn't it? You wouldn't consider  
13 using a muni, would you?

14                   Sir, my wife said yes, you can go ahead and chat  
15 if you would like, just make sure you hitch up your  
16 pants and don't embarrass me. So I have the pants  
17 covered.

18                   The other thing I would like to say is remember  
19 when you give a talk, you should never follow the  
20 finest person in class. And it's very disconcerting  
21 to have to deal with this crew who are so well  
22 versed, and any small college I think would be  
23 impressed with the curricula vitae of this collective  
24 group.

25                   I have really just three things - I'll try to be

1           brief about it - that I think would make some sense.  
2           ASAP, which is a group that I represent, and  
3           Connecticut Fund for the Environment have been trying  
4           to educate the people in the three towns about the  
5           impact that this project would have. And you may  
6           have read in the newspaper where there was a lawsuit  
7           about the brochure that we sent out, which was this,  
8           and it in fact discussed the issue of what is  
9           wildlife. And that has been resolved I would say in  
10          our favor. But it was curious to me that the other  
11          issues in the brochure, which were higher taxes,  
12          traffic congestion, septic sewage, pollution  
13          concerns, that didn't raise anybody's attention,  
14          which I found curious. I don't know whether that  
15          means it's true, but it certainly caught our  
16          attention.

17                 A hundred fifty years ago there was a group of  
18                 people just like you sitting around the table trying  
19                 to make a decision on a piece of property. It was  
20                 850 acres. And they came through with a decision to  
21                 protect that property and today Central Park is  
22                 available to tens of millions of people. And what we  
23                 would like you to do is to have that same vision  
24                 about this property in terms of trying to preserve it  
25                 for future generations. And so please think about

1           that at each stage.

2           I brought two photos of The Preserve, because  
3           it's a little disconcerting to see all of these  
4           completed plans when in fact we have a completed plan  
5           right here. And it doesn't require any homes or any  
6           golf course or any sewerage or any other problems.  
7           It's something that exists today. It wouldn't  
8           require any work. It's available for us. All we got  
9           to do is buy it. The purchase price --

10           CHAIRMAN MCINTYRE: Can we please hold the  
11           applause. Thank you.

12           MR. KENNEY: That was my family.

13           MR. BRANSE: Mr. Chairman, for the record, Mark  
14           Branse. One other thing. If you're going to show a  
15           photo or other document, it needs to become part of  
16           the record. We don't need the framed one, but if you  
17           could get another print, that would be helpful.

18           MR. KEENEY: Would this do?

19           MR. BRANSE: Is it the same photo you were just  
20           referring to?

21           MR. KEENEY: Sure.

22           MR. BRANSE: If it's generally the same, that's  
23           fine.

24           MR. KEENEY: Sort of.

25           MR. BRANSE: Do you want to submit that?



1           MR. KEENEY: Yes. I have a copy for every one  
2 of you, actually.

3           The next point, if I may, there is a mystery  
4 about a forest. And the philosophical question is if  
5 a tree falls in the forest and nobody is there, does  
6 it make a noise? It's philosophical, of course, but  
7 a forest has its own unique sounds. And those are  
8 the running water, the wind blowing through the  
9 trees, you know, the singing of birds. However,  
10 there can be some important sounds. And that's what  
11 we are worried about as far as this development.

12           Now, I'm a developer, because I added 1,000 feet  
13 to my house this past year, and that experience told  
14 me a lot of things. First of all, I had 11 cement  
15 truckloads come in, 15 lumber loads, one load to  
16 finish doors and windows, six loads of fill and ten  
17 loads of topsoil. That was 43 truckloads for 1,000  
18 square feet. I did a quick extrapolation of this  
19 project, and I determined -- and I can't prove it at  
20 any great mathematical accuracy, but there's probably  
21 50,000 truckloads that would come into this property  
22 and leave. And my question is has anybody told the  
23 residents of 153 that this is coming down the road?

24           And my final thought is local birders have  
25 identified 134 different birds in and around the

1 Essex middle area, and that borders on or is close to  
2 the proposed development. And the next question is  
3 has anybody told the birds? Those are my questions.  
4 Thanks.

5 CHAIRMAN MCINTYRE: Thank you, Mr. Keeney.

6 Does the applicant want to respond to anything  
7 at this time?

8 MR. LANDINO: No.

9 CHAIRMAN MCINTYRE: Okay. Yes. Come up to the  
10 podium, please.

11 MR. ROTHENBERGER: Hi, good evening. My name is  
12 Charles Rothenberger. I'm with the Connecticut Fund  
13 for the Environment, the formal intervenor in this  
14 application process. We obviously have a lot to say  
15 about the application, and we will do so.

16 I wanted to introduce one expert that we  
17 happened to bring with us this evening, Geoff  
18 Hammerson, a very well-respected biologist. The  
19 author of probably the leading book on wildlife,  
20 Connecticut wildlife in the state, is widely  
21 published and has held a number of teaching  
22 positions. So Dr. Hammerson, if you would like to  
23 come up. He has some comments and observations to  
24 make based upon this evening's presentations.

25 MR. HAMMERSON: Thank you. I didn't have the

1 advantage of being able to --

2 CHAIRMAN MCINTYRE: Could you state your name  
3 for the record, please.

4 MR. HAMMERSON: Oh, I'm sorry. My name is  
5 Geoffrey Hammerson. I'm a research zoologist for  
6 Nature Serve. I've worked in the conservation  
7 biology community for 20 years, for the nature  
8 conservancy organizations. I teach conservation  
9 biology and related courses at Wesleyan University.  
10 I've studied amphibians and reptiles for 30 years.  
11 I've studied vernal pools in Connecticut for 20  
12 years. And I gave you a copy of my CV.

13 I am here at the request of the Connecticut Fund  
14 for the Environment. I didn't have the opportunity  
15 to review any documents before, that may have been  
16 available up to this point, so I'm just basically  
17 responding to testimony that you heard tonight. So I  
18 just want to make a few points, clarifications, and  
19 different interpretations.

20 For example, with all due respect to the  
21 scientists who have spoken before and not to  
22 discredit them in any way, but I must say that the  
23 bird and mammal surveys, for example, that were  
24 referred to - and I did have a chance to flip through  
25 the report - in the scientific community would be

1 viewed as very cursory, not exhaustive by any means.  
2 For example, the bird surveys were done between  
3 June 1st and June 9th, 2002. And that was it as  
4 far as I could tell from the report. By the same  
5 token the mammal surveys seemed to be quite limited  
6 as well and more opportunistic than methodical,  
7 except perhaps the bat surveys which did reveal the  
8 existence of a special concern species on the  
9 property.

10 There was a comment that there are no endangered  
11 or threatened species on the property. I would say  
12 that I would highly qualify that remark. I don't  
13 believe that there has been an exhaustive botanical  
14 survey of the property. There's been some botanical  
15 survey, but I wouldn't call it exhaustive. Some of  
16 the plants that they found in or near the property  
17 actually have state status as endangered or  
18 threatened. They weren't found by the applicant's  
19 consultants, but that doesn't mean they are not  
20 there. They sometimes are difficult to find. They  
21 don't appear every year. There are other reasons.  
22 So you can't conclusively conclude that they are not  
23 there by the kind of surveys that were done.

24 Similarly, I'm not aware that there were any  
25 invertebrate surveys done at all. There are a large

1           number of state listed endangered or threatened  
2           invertebrates in Connecticut. I don't know if any of  
3           them occur on the property, but I don't think that  
4           the applicant does either. So I would just caution  
5           you as to how you interpret the surveys that were  
6           done and to regard them as preliminary or not even  
7           done at all for some of the groups.

8           The vernal pool surveys looked pretty good to  
9           me. I think that given the time frame of a couple of  
10          seasons, it's a remarkable set of data. I don't  
11          think it's necessarily completely conclusive, because  
12          vernal pools, after all, are dynamic ecosystems that  
13          change from year to year. And sometimes it takes a  
14          multi-year time frame to really understand completely  
15          what's going on. But I do believe that a good data  
16          set was collected for the vernal pools. However, I  
17          would interpret that information a little  
18          differently. For example, the prioritization scheme  
19          makes sense to me. But one must admit that it's  
20          arbitrary as to what you consider to be a high  
21          priority pool or mid, medium or low. And I, in  
22          quickly looking over the report, would be inclined to  
23          include a few more pools as important.

24          Would it be possible to display the vernal pool  
25          map; the one with the circles on it?

1 MR. BRANSE: That's one. There's two, though.

2 MR. HAMMERSON: This one with the circles on it  
3 I think probably will do. I think I can work with  
4 that.

5 MR. BRANSE: Just state which one you're  
6 referring to.

7 MR. HAMMERSON: I'm referring to -- it's labeled  
8 map 28. Okay. So, for example, I might be inclined  
9 to add a couple more circles to this. So my point is  
10 that what one puts a circle around and what one  
11 doesn't put a circle around is subjective. And this  
12 is one interpretation and someone else might come up  
13 with something that would include a greater number of  
14 circles and a greater area. Okay.

15 When I look at this, I think wow, look at this  
16 great assemblage of vernal pools here quite close to  
17 each other, probably what scientists have referred to  
18 as a metapopulation, which simply is a fancy word for  
19 a group of interacting populations. Over the  
20 long-term these pools may hold water a long time.  
21 They may dry up. The amphibians respond accordingly  
22 by shifting around. You might go extinct in one pool  
23 for a number of years and then require nearby pools  
24 to serve as sources of colonization to repopulate  
25 that pool.

1           So anyway, I would see this and I think wow,  
2           this is great. And what I would do is designate this  
3           whole area here perhaps as a very high priority  
4           conservation zone that wouldn't be fragmented. Yet I  
5           was a little startled to see that's exactly where  
6           half the golf course is going.

7           MR. BRANSE: Professor Hammerson, you just said  
8           this area. I believe you were referring to the area  
9           west of the Pequot -- west and southwest of the  
10          Pequot Swamp; is that correct?

11          MR. HAMMERSON: Yes. The part that extends up  
12          into Essex, goes along the western part of the Pequot  
13          Swamp and southeast and southwest from there. It's a  
14          set of interlocking circles. So anyway, that's one  
15          way of interpreting this.

16          This would be a really excellent place to set  
17          aside as an example of -- a set of vernal pools that  
18          could be protected as a unit rather than separating  
19          them by fairways. Fairways and the abilities of the  
20          amphibians to cross them is debatable. They can  
21          cross open areas, but it's not really suitable  
22          habitat for them. These amphibians use leaf litter,  
23          logs, underground burrows, not dense turf. So it's  
24          problematic and certainly is going to inhibit the  
25          interactions among the different populations there.

1           So anyway, I see an opportunity for some great  
2           conservation, a great ecosystem that could be set  
3           aside there rather than a site for a golf course.

4                     So I guess my main point would be that the  
5           information that we have on this part of the  
6           ecosystem, and this is only part of it, really,  
7           because the bird and mammal surveys were cursory and  
8           invertebrates weren't really sampled at all. It's  
9           really hard to comment on how this design might be  
10          affected by a potential presence of species of  
11          conservation concern.

12                    Just based on this data set I am just going to  
13          say that someone else could interpret this  
14          differently and look at this as a place not to  
15          fragment, and someone also might add some further  
16          circles that may influence the way that this is  
17          developed. I think that I would add a couple more  
18          circles there, which would change the appearance of  
19          the zones.

20                    And I think one final point -- maybe I already  
21          said I will make a final point. Here's another one.  
22          That to refer to the habitat in this section I have  
23          been referring to, the interlocking circles as a  
24          conserved zone I think is a little bit misleading,  
25          because although it does attempt to minimize the



1 amount of outright habitat damage in these 750-foot  
2 circles, it does fragment that forest quite a bit by  
3 interrupting it with larger areas of turf. And I  
4 would just simply point that out. And that's all  
5 that I have to say. Thank you very much.

6 CHAIRMAN MCINTYRE: Thank you.

7 MR. LANDINO: Mr. Chairman, may we respond?

8 CHAIRMAN MCINTYRE: Yes.

9 MR. KLEIN: Mr. Chairman, very briefly. Michael  
10 Klein. It's unfortunate that Geoff didn't have the  
11 opportunity to take a look at our report which has  
12 been in the record. I don't want to get into a  
13 methodological scientific debate here, but the  
14 suggestion that, for example, the botanical survey  
15 was cursory is both untrue and somewhat insulting  
16 unless it was made in the absence of looking at our  
17 report.

18 Mr. Collin from my office, who is here,  
19 specifically met with the Connecticut DEP to identify  
20 any particular species of conservation concern, not  
21 only that were known from this portion of the Town of  
22 Old Saybrook -- Old Saybrook, Westbrook, and Essex,  
23 but also those which might be present based on the  
24 known habitat in this area. We met with Ken Metzler  
25 from the DEP; the state expert on the flora of

1 Connecticut. We identified that list. We identified  
2 the habitat types that those plants would be -- are  
3 known to use. And we identified the times of year in  
4 which those species are most conspicuous. So not  
5 only did our survey cover two complete growing  
6 seasons for the entire length of the growing season  
7 for the flora, but we specifically concentrated to be  
8 present at the site when the species of conservation  
9 concern, for example, would be in flower or in fruit,  
10 which they are easier to find and positively  
11 identify.

12 Mr. Collin's survey identified almost 400  
13 species of plants on this site. The suggestion that  
14 this is incomplete or preliminary is just absolutely  
15 incorrect. I don't want to get into a long debate  
16 here. We'll provide some additional written  
17 responses, but I just want to suggest that that  
18 notion is -- doesn't stand a careful look at the  
19 methodology we used.

20 MR. BRANSE: Mr. Chairman.

21 MR. KLEIN: And respectfully with respect to the  
22 aging biodiversity, the early June period, period in  
23 June is the time of year that's the best time of the  
24 year to determine which species are actually using  
25 the particular site for breeding. There's no reason

1 to believe that there's a shortage of migratory  
2 forested habitat in this part of the state. And so  
3 the critical limiting factor would be breeding use.  
4 And that's the reason why the survey's done at that  
5 time. And migratory birds have passed through. The  
6 ones that are present at the site would be actively  
7 singing, staking out territories, would be most  
8 easily detected. So the surveys were very carefully  
9 timed and designed to maximize the biological  
10 information. We don't believe it takes 20 years to  
11 characterize a site. We can't prove an absence. We  
12 can never prove that something is not there. We can  
13 only tell you how much effort and time we spent to  
14 look at this site and what we do find.

15 CHAIRMAN MCINTYRE: Thank you. Attorney Branse.

16 MR. BRANSE: For the record, Mark Branse.

17 Just one question. Mr. Klein, you indicated  
18 that your report is part of the record. And Mr.  
19 Hammerson -- Professor Hammerson said he had not had  
20 the chance to review it. When was the report to  
21 which you were referring made a part of the record?

22 MR. KLEIN: November 3rd.

23 MR. BRANSE: November 3rd, okay. I just wanted  
24 to be sure, because I hadn't seen it. November 3rd.

25 MR. LANDINO: May we have one more speaker in

1 response, Randall Arendt?

2 CHAIRMAN MCINTYRE: Yes.

3 MR. LANDINO: Thank you.

4 PUBLIC SPEAKER: We --

5 CHAIRMAN MCINTYRE: They are just responding.

6 After you want an answer to your questions. And when  
7 you speak then the applicant may respond. He  
8 requested that he have another speaker respond to the  
9 comments of the last speaker.

10 PUBLIC SPEAKER: I thought the format was they  
11 would speak, the public would speak, you would speak.

12 CHAIRMAN MCINTYRE: Well, this is the format we  
13 have been using all nights of public hearings, that  
14 the applicant will respond when he wishes to. And I  
15 made that statement during the opening, that the  
16 public would speak and the applicant may or may not  
17 respond to your questions.

18 MR. ARENDT: Good evening. Randall Arendt  
19 speaking again briefly.

20 It is a pity that Professor Hammerson wasn't  
21 able to review the report which has been on record  
22 for a week before speaking at the podium or being  
23 able to spend time on the property before speaking at  
24 the podium, because there are more than 400 manhours  
25 out there easily of research. So I think you need to

1 compare who's been out there looking.

2 MR. BRANSE: Excuse me, Mr. Chairman. This is  
3 not responding, and I think the point is correct.  
4 The applicant has made --

5 MR. ARENDT: I was commenting --

6 MR. BRANSE: The applicant has made -- excuse  
7 me, sir. The applicant has made a presentation.  
8 Certainly the applicant has the opportunity to  
9 respond, but at this rate we'll never get through the  
10 public comment. If there's a question that's been  
11 raised, certainly the applicant should be allowed to  
12 answer it. But if they are going to respond to each  
13 point -- to each argument with a counterargument, I  
14 think we are not going to make the progress we need  
15 to make. That's just my recommendation.

16 CHAIRMAN MCINTYRE: Okay. Thank you.

17 MR. LANDINO: I apologize. We should just be  
18 responding to questions, and we understand the  
19 format.

20 Now, Randall, did you want to respond to a  
21 question that you felt wasn't answered?

22 PUBLIC SPEAKER: There wasn't a question.

23 MR. ARENDT: The question raised was whether  
24 this would fragment the property. I think that we  
25 should bear in mind that the by right yield plan

1           which meets all the town's ordinances and state of  
2           Connecticut's laws, the yield plan which is on  
3           display we did as a result of the requirements and  
4           the ordinances shows extensive fragmentation. And if  
5           you want to put it on a balance to see which has the  
6           less fragmentation and the more preservation, that is  
7           a very relevant thing to bear in mind, and that's why  
8           we have that up on the board.

9           MR. LANDINO: Thank you.

10          CHAIRMAN MCINTYRE: Thank you. Anyone else from  
11          the public wishing to speak? Yes, sir.

12          MR. UNGER: My name is Tom Unger. I live on 8  
13          Trask Road in Old Saybrook.

14          And I would like to address open space, but I  
15          would first like to hand out --

16          (Mr. Unger passes out papers.)

17          MR. UNGER: Mr. Landino, can I borrow your --

18          MR. LANDINO: Sure.

19          MR. UNGER: Thank you. It works better here  
20          than the podium. I thought I could avoid doing that,  
21          but it seems to work.

22          I'm -- I have attended every hearing on this  
23          piece of property. But before I say anything I would  
24          like to say that I have a really deep appreciation  
25          for all of the members of the commission just looking

1 at the volumes and reams of data to go through to  
2 make the best decision possible. Even the limited  
3 data I have looked at has taken some hours, and I  
4 thank you all very much.

5 The set of numbers that I have looked at  
6 regarding acreage on the property is how I see the  
7 land as a portion among the three towns and among the  
8 various uses. That's the chart I have put together  
9 here. And I keep coming up with some numbers that  
10 aren't consistent with other numbers I have heard  
11 significantly. I heard one tonight from Dr. Hills or  
12 Mr. Hills mention of 151 acres in the golf course.  
13 And other numbers have also been presented in  
14 documents submitted by the applicant. And I would  
15 very much like to get the numbers clarified. I hope,  
16 maybe not tonight but at a future hearing, that this  
17 could be done. All these numbers come from data  
18 submitted by the applicant and certain of the  
19 applicant's representatives.

20 The official web site indicates that there's  
21 970 acres total on The Preserve and 883 in Old  
22 Saybrook. At another hearing we heard that there's  
23 130 acres of wetlands, and 330 acres of upland  
24 review, and 165 acres of 20 percent slopes. These  
25 two numbers, the 363 and 165, comes up to 528 acres

1           which are completely unsuitable for development, for  
2           public recreation, either passive or active. This  
3           brings us down to 442 acres. Sixty-seven of the  
4           acres are going to be used for the cluster sites.  
5           Thirty-four acres are going to be used for the  
6           three-quarter-acre or 45 three-quarter-acre lots.  
7           And 75 acres will be taken up by the estate lots.  
8           Now we are down to 266.

9           The golf course, according to the document I  
10          mentioned on my chart, says it's going to be  
11          219 acres. And I threw in 75 acres for conservation  
12          easements, because over the course of all the  
13          hearings I've heard several different numbers. And  
14          Mr. Landino did clarify that tonight by saying I  
15          think it was 65 -- 60 or 65. Maybe it was 65. But I  
16          have heard it range from 60 to 80 at those hearings.  
17          And I'm really sorry to say that I come up with  
18          negative 28 acres left over. And this doesn't  
19          include a water tower, which is a million gallons, a  
20          firehouse, a sewage plant, and roads. And to say  
21          that someone is going to grant the town 500 something  
22          acres - 514 acres was the number tonight - well, we  
23          already have 528 acres that aren't of any use to  
24          anyone except protecting watersheds. And these acres  
25          will very likely not be developed under any



1 conventional plan or any cluster plan or any other  
2 plan, because you can't make any money on them.  
3 These acres, since they are wetlands and upland  
4 review areas, are very likely to remain open  
5 perpetuity under existing wetlands regulations  
6 instilled by this proposal.

7 Lehman Brothers proposed to grant 514 acres to  
8 us because they have no use for them. Lehman  
9 Brothers proposed to grant the acres to us because  
10 they are unsuitable for development. And it seems  
11 that the best profit method for Lehman to avoid taxes  
12 is to grant these acres, because otherwise they are  
13 paying taxes on it now.

14 And I have to resoundingly concur with  
15 Mr. Keeney that we have a fabulous asset here right  
16 now that doesn't need roads or houses or chemicals.  
17 And if we could buy it, then the public would have  
18 the 528 acres which protects the environment and an  
19 additional 500 acres that would be the best open  
20 space in the entire state of Connecticut. Thank you  
21 very much.

22 CHAIRMAN MCINTYRE: Mr. Landino.

23 MR. LANDINO: I'll be very careful, Mr.  
24 Chairman, not to debate. I just want to answer I  
25 think some questions on those numbers.

1           There's about 12 percent of inland wetlands on  
2           the site, totaling - and I don't have the exact  
3           number - 135 acres, plus or minus, Dennis. What's  
4           the total acreage of wetlands on the site?

5           MR. GODERRE: In Old Saybrook 112 acres.

6           MR. LANDINO: Okay. In Old Saybrook there's 112  
7           acres of inland wetland watercourses on the site.  
8           The balance of the site is upland. The numbers that  
9           Mr. Unger is referring to is the upland review area,  
10          which is perfectly developable. It's just the area  
11          that's regulated by your inland wetlands commission.  
12          And steep slopes, which are slopes in excess of 20  
13          percent, much of that is perfectly developable. And  
14          if you look at the neighborhoods around Schoolhouse  
15          Road, Cinnamon Ridge, Ingham Hill Road, et cetera,  
16          most of those neighborhoods were built with homes  
17          that were around slopes in excess of 20 percent. So  
18          at the end of the day while the logic sounds  
19          reasonable, the numbers are incorrect. And I just  
20          wanted to clarify those.

21          CHAIRMAN MCINTYRE: Thank you.

22          MS. CONLEY: My name is Kathy Conley. I'm a  
23          resident of Old Saybrook. And I also have a great  
24          deal of experience with organic farming and  
25          gardening. I would like to address the point of the

1 organic management of the golf course.

2 In this day and age no community can afford to  
3 consider a new golf course without considering the  
4 "O" word, organic. In communities throughout the  
5 northeast this is being considered and is being done  
6 elsewhere. It is being done not only 15 miles from  
7 here on Long Island as the crow flies and it is being  
8 done in Massachusetts; it is being done on Martha's  
9 Vineyard.

10 I want to read to you some zoning legislation  
11 reached recently and adopted by the town of Sharon,  
12 Massachusetts, with the approval of their state  
13 attorney general. It says, a golf course shall be  
14 designed and maintained according to recognized  
15 organic standards, such as the standards for organic  
16 land care of the Northeast Organic Farming  
17 Association of Connecticut with two exceptions, that  
18 greens, fairways, and tees may be mowed to less than  
19 two inches and emergency, nonorganic rescue  
20 treatments may be applied upon the demonstration of  
21 severe need and with approval from the permit  
22 granting authority.

23 So the town of Sharon, Massachusetts is  
24 developing organic standards developed by a group in  
25 Connecticut. I'll talk a little bit more about that

1 in a few minutes.

2 Just last week I was talking to a reporter, a  
3 science reporter about the problems of golf course  
4 management and pesticides on golf courses. He  
5 pointed out to me that, well, that's largely been  
6 solved, because now we have IPM. And I will grant  
7 you that turf science has evolved a great deal over  
8 the past 25 years. It's gone through a lot of  
9 evolution; most of it for the better. And a lot of  
10 it's through the recognition of the experts who teach  
11 the subject. But let us not mistake IPM for organic  
12 land care. I'm not saying that these gentlemen have  
13 presented it as organic land care, but the public in  
14 general forms the impression that if you have  
15 something called IPM, well, that's kind of organic.  
16 Truth is you can't be a little bit organic, just like  
17 you can't be a little bit pregnant.

18 I would like to raise a number of questions  
19 about the pesticide management plan that they propose  
20 to put in place. Now, they will tell you that the  
21 organic approach is not economically viable at this  
22 time. And there is a lot of sentiment in the golf  
23 course business that that is the case, and yet there  
24 are places where it is beginning to be done. And so  
25 the economics of golf course management under an

1           organic management plan are beginning to be  
2           discovered in actuality in places not far from us.

3           The truth of the matter is that if you're going  
4           to claim to use organic substances, as I heard  
5           tonight, those substances need to be from the  
6           national list of the national organic program. This  
7           is something I would like our commissioners all to be  
8           aware of. Organic is a word that's been regulated  
9           since 2002 by the federal government. In fact, if  
10          you are an organic farmer and you fail to meet the  
11          criteria of the organic certification process, you  
12          cannot use that word organic unless you want to face  
13          some very hefty fines ranging from \$5,000 to \$25,000.  
14          So if they are telling you that they are putting  
15          organic substances on this golf course, please  
16          recognize that that is a very specific meaning and a  
17          very specific standard that it has to meet.

18          Now, I would like to talk for two seconds about  
19          the national list of the organic program. The  
20          national list has been developed over the last ten  
21          years by an interdisciplinary group called The  
22          National Organic Standards Board. In order for a  
23          material to get onto that list, it generally has to  
24          go through testing by The Organic Materials Research  
25          Institute. That is a voluntary program. But in

1           order to become an approved substance for organic  
2           growing -- and this is a form of agriculture, make no  
3           mistake about it. A golf course is a form of  
4           agriculture called agronomy. It's a large  
5           monoculture grown for economic purposes. In order to  
6           get onto the natural organic list, you have to have  
7           the entire material tested. What that means is the  
8           inert substances as well as the active substances.

9           Now, you may not know this, but in the world of  
10          pesticide production, you -- if you're not applying  
11          for organic status, you don't have to reveal what  
12          your inert substances are unless forced to by a  
13          government agency because of reasonable concern about  
14          the materials in the inert substances. Inert  
15          substances can include formaldehyde, xylene, a number  
16          of interesting-sounding chemicals. And these have  
17          been shown, some of them, to be as harmful as the  
18          active substances. Understand that a bag of  
19          pesticide and some fertilizers is as much as 99  
20          percent inert substance. Okay.

21          So the materials that the gentlemen are talking  
22          about, as much as I understand that they want to  
23          manage them very conservatively and carefully, do  
24          contain these inert substances unless they are on the  
25          national organic list. And those substances can be

1 as damaging. And understand that they go down in  
2 volumes much greater than the active substances. So  
3 I would really like to know what kind of regulations  
4 we are going to place around that phenomenon. It's a  
5 very real one.

6 I have a few other questions that I would like  
7 to pose and then I'll stop. We are talking here  
8 about the conversion of forest land to agriculture  
9 land, because a golf course is a piece of  
10 agriculture. When you do that you have to change the  
11 soil structure. Forest land is generally fungal in  
12 nature. You grow agricultural crops generally on  
13 soil that is bacterial in nature. The soil life of  
14 that agricultural land is likely to be bacterial in  
15 order to support these kinds of crops. And grass is  
16 a crop. I keep going back to that.

17 My question is how are they going to amend the  
18 soil during the transition period? Are they going to  
19 bring in topsoil and compost from other parts of the  
20 state? Do they have enough topsoil on the site to  
21 move into the areas they are going to support turf on  
22 an ongoing basis? If topsoil and compost are being  
23 brought in from outside sources, do we have a testing  
24 program in place for that material?

25 Because while the land here hasn't been touched

1           by pesticides or fertilizers in its history or at  
2           least certainly not in the recent history, the land  
3           that could be brought in from other locations may  
4           very well have pollutants, heavy metals, chemicals,  
5           other undesirable things in it from activities that  
6           occurred on that topsoil at other times.

7                   Compost is a particular concern. Compost sounds  
8           very harmless, but in truth a lot of commercial  
9           compost is made with old building materials. It can  
10          come from treated lumber. It can come from old  
11          buildings that had exposure to arsenic. So you have  
12          to be very careful about the inputs that are carted  
13          into the site.

14                   I don't really know what their plan is for  
15          converting the forest land to agricultural land. I  
16          would like to hear about that, but I also would like  
17          Old Saybrook to be very careful in asking for a  
18          testing program on any nonnative materials that are  
19          brought in.

20                   One other point I heard tonight and then I think  
21          I'll leave this for someone else to make a few  
22          comments. We talked about -- we heard about native  
23          grasses being grown on the site. Grasses are not  
24          native to forest soils. These grasses may be native  
25          to other parts of Connecticut. But this is a forest,



1 so this is not native to a site such as this. This  
2 is nonnative, and we need to be very clear about  
3 that.

4 As far as no maintenance, grasses don't grow on  
5 forest soils, so that the forest soil will have to  
6 somehow be amended. I would like to hear more about  
7 how those amendments will occur.

8 And basically, those are my comments for now.  
9 There's a lot more that could be said, but I expect  
10 that we'll get a chance to do that. Thank you very  
11 much.

12 CHAIRMAN MCINTYRE: One second. Attorney  
13 Branse.

14 MR. BRANSE: Yes.

15 CHAIRMAN MCINTYRE: As far as our -- we seem to  
16 be getting on this golf course issue a lot deeper  
17 than our preview would cover in our decision-making  
18 process for this part of the application. Could you  
19 once again explain to us what our job is with the  
20 golf course as far as in the decision-making process.

21 MR. BRANSE: For the record, Mark Branse.

22 The only relevance -- well, let me back up. The  
23 zoning commission will ultimately have to review a  
24 special exception application for the golf course.  
25 And part of that will be a detailed review of the

1           grading involved, and the pest management, and  
2           chemical management, all those types of things. The  
3           only relevance for this proceeding is whether the  
4           conventional subdivision layout or an open space  
5           subdivision layout is preferable.

6                       Now, I suppose that it's -- there's some  
7           relevance as to the hazards that a golf course may or  
8           may not produce. That's why the applicant has  
9           presented their view of how they would manage this  
10          golf course, and the public is addressing it as well.  
11          But this commission is not going to be reviewing, for  
12          example, a management plan for turf. It's just not  
13          going to be doing that. The zoning commission will  
14          be doing that. So I have hesitated a couple of times  
15          to sort of intercede when those points were being  
16          made both by the applicant as well as by the public,  
17          but I didn't because it is relevant to the issue of  
18          whether this property should be developed as an open  
19          space subdivision with a golf course versus a  
20          conventional subdivision without one. But I think it  
21          is correct that the details of the golf course really  
22          are not relevant to this proceeding.

23                      I would suggest that both the applicant and the  
24          public confine themselves to the question of whether  
25          an open space subdivision with a golf course of the

1 type that the applicant proposes is preferable to a  
2 conventional subdivision and underlying lot densities  
3 or not. That's really the question before you.

4 CHAIRMAN MCINTYRE: Thank you.

5 MR. LANDINO: There is one question that needed  
6 an answer. There is no topsoil to be imported into  
7 the site. The site is expected to be a balanced  
8 site. And any materials that were imported for the  
9 community septic system or for whatever reason would  
10 undergo extensive materials testing and testing for  
11 any issues relating to contaminants, et cetera. That  
12 was the only question that I think needed answering.

13 CHAIRMAN MCINTYRE: Yes, ma'am.

14 MS. FAULKNER: Sally Faulkner. I think this  
15 relates --

16 CHAIRMAN MCINTYRE: Talk to the podium, please.

17 MS. FAULKNER: I'm Sally Faulkner. I live at 10  
18 Dwayne Road in Old Saybrook.

19 At the last meeting it was brought up that the  
20 town's numbers differed on the -- possibly on the  
21 number of units for the conventional plan. And there  
22 was -- that would relate then to the number of units  
23 allowed under the open space plan. And I wondered if  
24 that had been worked out, if there are any new maps  
25 showing the conventional plan with the town's

1 numbers.

2 MR. LANDINO: That's a good question. There  
3 were a series of staff reports or consultant reports  
4 that were given to us last week, and tonight at the  
5 outset of the hearing Attorney Royston presented  
6 about a 20-page response. Now it's up to the town's  
7 team of consultants, I believe. And I don't mean to  
8 speak for you, Christine, but up to the town's team  
9 of consultants to respond, and that process will  
10 ultimately evolve to a recommendation for number of  
11 lots. So to answer your question it's not a finished  
12 process. It's in progress.

13 CHAIRMAN MCINTYRE: Thank you. Yes, sir.

14 MR. FISHER: My name is Bob Fisher, and I live  
15 on Ingham Hill Road in Essex.

16 I have heard a lot about invernal pools and  
17 everything else tonight, but, again, I am concerned  
18 about what I brought up at the last meeting, and  
19 that's the general suitability and the interaction  
20 with the surrounding community-proposed development.  
21 I want to just ask a few questions about water. And  
22 I'm not even going to touch on traffic, because I  
23 think that will come up later, but just a cursory  
24 look at what I consider to be just very preliminary.

25 And the water requirements for a golf course run

1           between 800,000 and 2 million gallons a day. The  
2           current plan, as I understand it, calls for wells to  
3           support the golf course and for the Connecticut Water  
4           Company to supply water for the residents. I have  
5           several questions. I am sure we will be told that  
6           there is adequate water for the golf course and the  
7           surrounding community. But it's curious there  
8           appears to be zero risk for The Preserve residences  
9           if there isn't, because they will be importing water.  
10          I find that troublesome.

11                 I am sure that we will be told that the golf  
12          course, fertilizers, pesticides, herbicides and I  
13          think as the previous speakers' comments about the  
14          inerts, these -- many of these are not regulated, but  
15          they can be just as deadly. As I said I am sure we  
16          will be told that this will not harm our water supply  
17          or that the sewage treatment facilities and the  
18          outflow from it will not adversely affect our water  
19          supply, that both the quantity and the quality of the  
20          water will not impact the neighbors. I find it  
21          curious that water will not be used -- the well water  
22          will not be used for the residences in The Preserve.  
23          I would feel more comfortable if the proposed  
24          residences had the same water sources as the  
25          surrounding community so that they shared the risk of

1 the outflows from the sewage treatment facilities and  
2 any damage that may result from imported materials,  
3 be it pesticides, fertilizers or whatever.

4 I am also concerned about what happens during  
5 drought conditions. We have had a few scares since I  
6 have been here. I have been here 11 years, and we  
7 have had a couple of dry summers where we were all  
8 concerned about water, our wells and so forth. And  
9 these are the time periods when we have maximum  
10 demand on groundwater for the golf course. Their  
11 demand would increase just as our water supply is  
12 actually diminishing. I find that troublesome, and I  
13 wish the commission would also take a good hard look  
14 at that. Obviously, during nondrought conditions  
15 that would not be a problem if there is enough water.

16 Just to close --

17 MR. BRANSE: Mr. Chairman, Mr. Fisher, just --  
18 for the record, Mark Branse.

19 Just a question. Is the thrust of your comments  
20 that the conventional subdivision would be preferable  
21 to the open space subdivision with golf course?

22 MR. FISHER: I would question the adequacy of  
23 both of them, and I would think as a planning  
24 commission I would assume you would be interested in  
25 the impact of any -- either proposal if it turns out

1           that way on suitability for the piece of property  
2           that they are talking about. Just as you should be  
3           concerned about the roads and so forth, I think that  
4           the water is equally important.

5           MR. BRANSE: If I can just try to explain one  
6           more time. What's before the commission at the  
7           moment is, one, is the open space layout better than  
8           the conventional? What number of lots should be  
9           accepted as the yield plan? And should the  
10          preliminary plan be approved as submitted or modified  
11          in some way? I'm just -- I'm just trying to help you  
12          focus your comments toward what the commission has to  
13          decide.

14          MR. FISHER: If I understand you -- you can help  
15          me on this.

16          MR. BRANSE: I'm trying to.

17          MR. FISHER: Okay. The commission is only going  
18          to answer one question, whether it's either/or?

19          MR. BRANSE: No. The commission has three  
20          questions. One, how many units should properly be  
21          attributed to the yield plan? How many units does  
22          the developer get overall? Second, should those  
23          units be laid out with cluster and golf course and  
24          open space as shown on this plan or should it be  
25          conventional; a conventional subdivision under

1 conventional zoning? And third, if they like the  
2 idea of an open space subdivision, is this plan as  
3 depicted here the one that the applicant should  
4 proceed with or should it be modified in some way and  
5 if so of course how?

6 MR. FISHER: Okay. I guess the name of this  
7 commission is the planning commission, and I think  
8 that name implies certain responsibility. And I  
9 would assume that the adequacy of the proposal would  
10 bear very heavily on its suitability in terms of the  
11 approval process. And I am going to leave it at  
12 that, but I think neither one is suitable for the  
13 water supply is the question that I have. Yes, sir.

14 MR. LANDINO: Yes.

15 CHAIRMAN MCINTYRE: Did you want to respond?

16 MR. LANDINO: After.

17 MR. REDAK: Danny Redak, Old Saybrook.

18 Because this land has endangered wildlife, it's  
19 totally unacceptable for any development. And since  
20 it's going to raise all of our taxes, when is the  
21 referendum going to be held?

22 CHAIRMAN MCINTYRE: Excuse me. I didn't hear  
23 what you said.

24 MR. BRANSE: When is the -- the question was  
25 when is the referendum going to be held?



1           For the record, Mark Branse. Connecticut state  
2 law does not allow referendums on zoning decisions.  
3 Even if the town wanted to, it's not permissible.

4           MR. REDAK: Then we have to buy it.

5           CHAIRMAN MCINTYRE: Mr. Landino, did you want to  
6 respond to either that speaker or the one previously?

7           MR. LANDINO: Thank you. I'm going to ask Sam  
8 Haydock to respond to the questions that were raised  
9 by the previous speaker, and with one additional  
10 point being that we submitted for the record tonight  
11 a letter from the Connecticut Water Company  
12 confirming that they have the quantity of water  
13 necessary to service the development. They have  
14 water reserves to provide domestic and fire flow to  
15 the residential community.

16           MR. BRANSE: But Mr. Landino, I believe that  
17 letter did indicate that the golf course would be  
18 provided for by the wells as the previous speaker  
19 indicated.

20           MR. LANDINO: That's correct.

21           MR. HAYDOCK: Sam Haydock from BL Companies.  
22 I'm the director of our environmental services  
23 operations.

24           Just a quick clarification on the irrigation  
25 requirements. In a typical year for a course -- and

1           there will be actual calculations calculated based on  
2           the final size of the golf course, the acreages of  
3           the fairways. A typical golf course in a typical  
4           year the irrigation requirements are of approximately  
5           250,000 gallons per day. In a drought year that  
6           number may be slightly higher.

7                         With respect to the distinction between  
8           Connecticut Water Company, the open space plan and  
9           the PRD required that we have a community water  
10          system. Connecticut Water Company is the exclusive  
11          service provider for this area. And they have  
12          demonstrated and indicated that they have the supply  
13          and are willing to supply it. Thank you.

14                        CHAIRMAN MCINTYRE: Anyone else? Yes.

15                        MR. ANDOUR: My name is Weldon Andour. I'm from  
16          Old Lyme. And I just had a couple of questions I  
17          wanted to ask.

18                        First of all, is this course going to be private  
19          or public?

20                        MR. LANDINO: It's going to be a private course  
21          available to anyone who joins, up to a total  
22          membership of 375. There's no special consideration  
23          given to residents of The Preserve. It's truly open  
24          to anyone on a first-come, first-serve basis. The  
25          course will be available for use at no charge to the

1 Old Saybrook, and Westbrook, and -- excuse me. The  
2 Old Saybrook and Westbrook Senior High School for the  
3 golf team.

4 MR. ANDOUR: How much is the membership?

5 So I got out of that personally that in turn it  
6 is for the most part a private course. And as I am  
7 sure as you know that through your extensive research  
8 that you have all done, we have plenty of, in my  
9 opinion, private courses in the area, including Fox  
10 Hopyard, just over the river Old Lyme Country Club,  
11 just to name a couple. If this is a private course,  
12 it will have, in my opinion, nothing positive to  
13 offer any of the communities in the area. In fact,  
14 it will have a negative effect for all of us,  
15 including our air quality and the precious Long  
16 Island Sound that we all enjoy not only in the summer  
17 but the winter as well.

18 These developers that are mostly -- that are  
19 mostly from or have done most of their work that is  
20 coming from the brochure that you handed out, did  
21 most of their work in places such as California, New  
22 York, West Hartford, and Washington, D.C. and in my  
23 opinion are not concerned about the two most  
24 important things. The land and the people that live  
25 here.

1           I like to think of it as a baker that makes  
2 bread. He's not in it to feed the people who's  
3 making the bread. He's in it to make money. These  
4 developers are not here to give people housing. And  
5 if they were they wouldn't be planning \$500,000 plus  
6 golfing communities. They are here to make money as  
7 well. And no matter how much planning or saying they  
8 are concerned as they are, they are here to make  
9 money at anyone's expense, including the precious  
10 forests that are in our own backyard.

11           Why should we allow at all something we don't  
12 want to be forced on us, jammed down our throats by  
13 out-of-towners when we, as a community and a region,  
14 know that leaving this pristine, pure environment for  
15 future generations to use is the best use rather than  
16 another private country club.

17           CHAIRMAN MCINTYRE: Thank you. Go ahead, sir.

18           MR. O'NEIL: I'm Mark O'Neil. I live in  
19 Westbrook, the other town that's -- whose name  
20 happens to be on the master plan in the middle of the  
21 paper that everybody received to the towns. I'm not  
22 quite sure why Westbrook's name was on this portfolio  
23 that was sent out to everybody, because it doesn't  
24 seem like it's much involved except for a couple of  
25 very, very small pieces of land, which happen to be

1 quite important by the way.

2 I know when the meeting started, you know, we  
3 heard that this is a meeting that was a public  
4 hearing, that you're going to -- the board is going  
5 to hear questions. But, you know, the public comes  
6 to these meetings. We are allowed to come to all  
7 meetings. Public meetings is for the public. It's  
8 the one time the public gets to speak. Many, many  
9 people have children. And by the time this gets  
10 going, we have so many more questions and then all of  
11 a sudden the time is running out. And now we are  
12 kind of constricted, which I'm not quite sure, Mr.  
13 Branse -- Attorney Branse, that we are supposed to be  
14 deciding on whether we like this subdivision or that  
15 subdivision, and that's what we are supposed to keep  
16 our efforts on.

17 But we just listened to hours of testimony about  
18 salamanders, tidal pools, golf courses, golf course  
19 layouts, pesticides, and now we just have to decide  
20 do we like this one or do we like that one. Well,  
21 everybody in this room doesn't like either. We came  
22 to that conclusion when we walked in the door here.

23 It's really, you know -- I mean, Mr. Hills, you  
24 can just see the pride in his eyes as he's talking  
25 about his baby, the golf course. He wants this to be

1 something that's recognized countrywide. And you can  
2 see it. And you know, I really, really believe that  
3 he does want that. And maybe it will be. But, you  
4 know, I also heard a statement that really scared me.  
5 He says, I want this to be the standard set for golf  
6 courses of the future.

7 Can you imagine this world when the golf courses  
8 of the future has to be set on a thousand acres of  
9 forested wetlands on the coast of Long Island Sound.  
10 Do you have any idea how scary that is for this  
11 country, for this state, for the world?

12 Well, let's pick out some sensitive parts of the  
13 country and build a golf course on it. Golf courses  
14 are fine if somebody can take an empty parking lot or  
15 an abandoned building filled with tar and toxins and  
16 turn that into a golf course. I salute you to the  
17 end of the world. But to take a forest, the most  
18 beautiful, pristine area of our state, and turn it  
19 into a golf course, I cannot salute that. I'm sorry.  
20 Thank you.

21 CHAIRMAN MCINTYRE: Thank you. Anyone else  
22 wishing to speak? Yes, sir.

23 MR. MCNEISH: My name is Jim McNeish. I live at  
24 180 Ingham Hill Road. Before I lived in Old  
25 Saybrook, I lived in Norwich, on New London Turnpike.

1           And right at the end of New London Turnpike, they put  
2           in a huge casino. And when it went in they told us  
3           that this -- the end of our road was -- they were  
4           putting in a little road that they said was going to  
5           be just for a construction entrance. They said it  
6           would be closed once the casino was built. And I  
7           look at this plan here and I see a thing that says  
8           emergency access only to Ingham Hill Road, and I'm  
9           thinking that it's a lie. Because at the end of New  
10          London Turnpike, there's a full access to the casino.  
11          They've beefed up the intersection with a big light,  
12          and everybody knows that right down that street is  
13          the casino. I'm afraid of what's going to happen  
14          here. And I wonder if there's anyone on this  
15          commission who believes there's going to be anything  
16          but a full access to this development through Ingham  
17          Hill Road.

18                 CHAIRMAN MCINTYRE: Thank you. Yes, sir.

19                 MR. STAGEL: Thank you. I've got to work  
20          tomorrow, so I'm going to be brief. I play 50 rounds  
21          of golf a year, so I can appreciate --

22                 MR. BRANSE: Your name?

23                 MR. STAGEL: John Stagel, 2 Pepperidge Trail.

24                 I left this environment eight months ago after  
25          living five years in Greensboro. I grew up in Long

1           Island. I've seen what zoning has done to that area.  
2           I lived in Greensboro, North Carolina, where there is  
3           no zoning, but lots of gated communities and lots of  
4           golf courses. My wife went to high school in this  
5           area. I had a choice of living anywhere in the  
6           Northeast, and I picked this area because of the  
7           unique character.

8                     Based on the entrances, the two entrances that  
9           this development has, it doesn't contribute to the  
10          character of this town. It's another gated  
11          community. My personal feeling is I think they want  
12          us to pass the golf course development because it  
13          looks good on paper.

14                    I have well water. I have major concerns about  
15          their ability to stick with the intent on going with  
16          organic fertilization. I know of a golf course on  
17          Long Island that tried it. They made a gallant  
18          effort. It didn't work and they went back to  
19          conventional fertilization. So I have concerns about  
20          that. I think that this would probably be a very  
21          popular thing, because it appeals to a lot of people  
22          that have the money.

23                    I would almost bet to approve the conventional  
24          plan, because although it allows for more units, I  
25          don't know what market they are trying to attract



1           into this area. And I question that it would pass  
2           the zoning, which is really the stage I guess where  
3           this paddle has to be fought. Thank you.

4                   CHAIRMAN MCINTYRE: Thank you, sir.

5                   MR. ORSON: My name is Wayne Orson from Old  
6           Saybrook. I have a question. In the propaganda  
7           piece that was passed out, if I'm reading it  
8           correctly, and I am just quoting it verbatim, it  
9           says, the proposed development will have 248  
10          dwellings, period. Based on average family size (as  
11          agreed with Old Saybrook school officials), The  
12          Preserve may add another 607 residents over an  
13          anticipated construction duration of six to eight  
14          years.

15                   Am I to assume that means 248 units, dwellings  
16          plus another 300 dwellings; is that correct?

17                   CHAIRMAN MCINTYRE: We'll answer your question  
18          at the end.

19                   MR. ORSON: Pardon?

20                   CHAIRMAN MCINTYRE: The applicant will answer  
21          your question at the end. Go ahead.

22                   MR. LANDINO: There's 248 total units. Nothing  
23          more than that. I think that article refers to the  
24          total population of the development, assuming a  
25          certain number of people per household. And the

1           number of school-aged children that was estimated as  
2           part of that analysis was based on information  
3           obtained from the Old Saybrook Board of Education.

4           CHAIRMAN MCINTYRE: Thank you.

5           MR. ORSON: So when you say add another 607  
6           residents, how many residents per dwelling are you  
7           anticipating?

8           MR. LANDINO: Roughly two and a half. It's  
9           whatever the division of that 600 number is by the  
10          248. It's getting late.

11          MR. ORSON: Now, I would like to -- what  
12          concerns me I think is the relation to Old Saybrook.  
13          This is going to have an inordinant impact. Why?  
14          Because in proportion to the size of Old Saybrook,  
15          this is an enormous project. I think what I read - I  
16          don't know how true it is - but it will be one of the  
17          largest in the state.

18          What concerns me greatly, which in many cases it  
19          seems to be overlooked or construed in a blank  
20          manner, and that is the impact of traffic. Now, I  
21          realize many people just dismiss that disdainfully,  
22          but I think it's a very important factor. It is  
23          multidimensional, because traffic is not only -- is  
24          teaming traffic, excessive traffic. It is hazardous,  
25          it's unhealthy, it's unsafe, it's noisy, it's time

1 consuming, it's smelly and polluting.

2 Now, many people do not realize - now, this is  
3 according to the DEP - that because of -- vehicular  
4 emissions is very pollutive. As a matter of fact,  
5 according to DEP it's the second largest contributor  
6 to hypoxia, which is poor water quality conditions in  
7 the Sound, in the State of Connecticut.

8 Now, Connecticut and Old Saybrook has a  
9 particular problem, because we have 95 and we have  
10 Route 9. And Route 1 will be clogged. And you add  
11 another -- we'll say we add about approximately  
12 another 500 to 700 cars on roads that are already  
13 clogged. I don't know what we are going to do. It's  
14 going to completely change our quality of life, which  
15 is an important -- a very important consideration and  
16 it's the principal reason why many of us came here  
17 from urbanized areas. And we don't want to have our  
18 we'll call it area by the sea transmodified into  
19 urbanization.

20 I think that it's a good project, as far as the  
21 project is concerned. I think it's pretty well  
22 thought out. I think the gentlemen made good  
23 presentations, but I don't think it's right for Old  
24 Saybrook. And I feel very strongly about that and I  
25 think that you should examine very carefully the

1 traffic impact. Traffic, pollution, health, and  
2 safety, those are paramount concerns that must not be  
3 treated lightly, but treated seriously and examined  
4 very carefully. Thank you.

5 CHAIRMAN MCINTYRE: At this time I'm going to  
6 close -- you know, stop taking comment from the  
7 public. It's getting late and the board still has to  
8 address the applicant tonight and so do some of our  
9 consultants.

10 PUBLIC SPEAKER: Shouldn't we at least have  
11 equal time? They were going to speak for an hour and  
12 45 minutes and they spoke for two and a half, and now  
13 it's time to go home?

14 CHAIRMAN MCINTYRE: No, it's not time to go  
15 home.

16 PUBLIC SPEAKER: It's your turn. Ours is over.

17 CHAIRMAN MCINTYRE: And we are going to continue  
18 to next week. And we'll entertain more public  
19 comments.

20 PUBLIC SPEAKER: Maybe we should go first next  
21 week.

22 CHAIRMAN MCINTYRE: Well, we have our procedures  
23 and we are going to follow them. And everyone will  
24 have an opportunity to speak at the next meeting.

25 PUBLIC SPEAKER: Like we did this time?

1           CHAIRMAN MCINTYRE: Yes.

2           PUBLIC SPEAKER: You said that last week.

3           CHAIRMAN MCINTYRE: Then we'll continue until  
4 everyone gets to speak. We will continue the  
5 meetings until everyone does.

6           MR. ROTHENBERGER: Chairman McIntyre.

7           CHAIRMAN MCINTYRE: Yes.

8           MR. ROTHENBERGER: I would like to present one  
9 presentation for the record which directly relates to  
10 a question that was asked earlier by a member of the  
11 public.

12           CHAIRMAN MCINTYRE: I've closed at this time. I  
13 want to continue on to the board asking -- the  
14 commission asking questions and talking, getting  
15 questions for our consultants, which should be of  
16 interest to the public, also. And it might answer  
17 some of the questions that you are going to or would  
18 want to ask at this time. But it is getting late and  
19 we want to move this on. The public will be allowed  
20 to speak later at other hearings. And if at times it  
21 seems we don't have everybody's opinion by then, we  
22 will continue the public hearings until our time  
23 allows us to do that by law.

24           MR. ROTHENBERGER: I would respectfully suggest  
25 for the record, since it's a pretty clear bet that

1 all the members of the commission are going to be  
2 here next week and certainly the applicants will be  
3 here next week, but there's no guaranty that all of  
4 the members of the public who have been sitting here  
5 for four hours, took time out of their lives to be  
6 here are going to be able to be here next week, that  
7 they should be given the first opportunity to address  
8 the applicant and to make their comments.

9 MR. BRANSE: Mr. Chairman.

10 CHAIRMAN MCINTYRE: Yes.

11 MR. BRANSE: Attorney Rothenberger -- I guess  
12 Mr. Rothenberger, excuse me. Let me just ask  
13 Mr. Snarski is here this evening, Mr. Hillson,  
14 Mr. Jacobson. Will all three of you be here next  
15 week?

16 (Affirmative responses.)

17 MR. BRANSE: All will be here next week, okay.

18 My major concern is that if there are questions  
19 from the commission's consultants, that I want to be  
20 sure that they get asked in time for them to get  
21 answered.

22 Now, Mr. Rothenberger, would you not concur that  
23 that's important, too?

24 MR. ROTHENBERGER: I would absolutely concur  
25 that that's important. And from what I just heard it

1 sounds like we could certainly do that at a  
2 continuance of the public hearing. I don't know how  
3 many more people wanted to speak. Maybe we can wrap  
4 it up in ten minutes, and that might be ten minutes  
5 well spent.

6 MR. BRANSE: I leave that to you, Mr. Chairman.

7 CHAIRMAN MCINTYRE: I would like to continue  
8 with the consultants. I feel that if it's important  
9 everyone will come back if they need to. And if  
10 people need to, they can submit in writing their  
11 issues to us. We are going to continue the public  
12 hearing with the consultants. Yes, sir.

13 MR. MACRANELLI: I was wondering if we could get  
14 some assurance that the applicant's experts will be  
15 back next week for those questions.

16 CHAIRMAN MCINTYRE: That's a valid question.

17 MR. LANDINO: Yes, thank you. Yes, absolutely.  
18 In fact, there's a couple of experts that we don't  
19 have this evening that we will bring next week. We  
20 didn't bring our traffic expert. I could answer most  
21 of the questions, but the real technical ones I would  
22 want to bring our traffic engineer.

23 I would also add, Mr. Chairman, that we would be  
24 happy to have the public -- we have no objection to  
25 having the public start next week. We have no

1 further testimony except to respond to any questions  
2 and make concluding statements.

3 CHAIRMAN MCINTYRE: Thank you. Attorney Branse,  
4 what are you referring to?

5 MR. BRANSE: I wanted to be sure that if there  
6 are questions that they have now, that they get asked  
7 so that they can be answered by the next hearing, if  
8 not earlier.

9 MR. LANDINO: Mr. Chairman, may I speak? I  
10 apologize.

11 CHAIRMAN MCINTYRE: Oh.

12 MR. LANDINO: I was just informed that Arthur  
13 Hills will not be here next week. You will be. Is  
14 there anyone that won't be here next week? I  
15 apologize.

16 CHAIRMAN MCINTYRE: That's okay. It's getting  
17 late.

18 Mr. Jacobson, did you have any questions at this  
19 point?

20 MR. JACOBSON: I just have a few general  
21 questions.

22 CHAIRMAN MCINTYRE: Sure. Please state your  
23 name for the record.

24 MR. JACOBSON: Fine. For the record my name is  
25 Jeff Jacobson. I'm a professional engineer, and I am



1 the town consulting engineering. And I just had two  
2 questions. The first one would be for Russell (sic)  
3 Arendt. You indicated that there was a four-step  
4 process for developing a conservation development  
5 type plan. And the four items I believe were  
6 identified. The conservation area's first. Second,  
7 identify the housing sites. Third, connect the dots  
8 essentially between the housing sites to create the  
9 roads. And the fourth was the lot lines.

10 Where does the siting of the golf course fall  
11 into this process?

12 MR. ARENDT: Randall Arendt responding to  
13 Mr. Jacobson's question.

14 The golf course basically comes as a part of the  
15 delineation of the conservation area, but it's sort  
16 of between steps one and two. What you referred to  
17 was for most developments. Most developments don't  
18 have a golf course. Some do, quite a few do, but  
19 most don't. And that was a generalized set of  
20 procedures. The golf course would be in there  
21 between steps one and two as sort of a subset of one,  
22 because it's a subset of the open space. There's a  
23 formal kind of open space that's more organized, and  
24 that's the golf course. And there's a more informal  
25 open space, which is like the 500 acres of --

1           514 acres, I think, of undisturbed woodlands,  
2           combination of uplands mostly and some wetlands.

3           MR. ARESCO: I don't understand that answer.

4           CHAIRMAN MCINTYRE: Mr. Jacobson, if you have  
5           more questions, go up to the podium.

6           MR. JACOBSON: I do have one other question.

7           CHAIRMAN MCINTYRE: Go up to the podium now and  
8           we'll keep the mike in one place.

9           MR. TIETJEN: Keep the lawyer in one place, too.

10          MR. ARESCO: Dr. Arendt, I don't quite  
11          understand what you mean by a subset of open space.  
12          Could you just clarify that.

13                 I mean my understanding is that the -- you're  
14          carving out the primary resources first. So you're  
15          carving out that as a subset of open space. The golf  
16          course itself is not open space, so I don't  
17          understand where that fits in.

18          MR. ARENDT: It's a subset of land which is  
19          basically green space. There's a lot of -- green  
20          space can be developed. One of the people that had  
21          spoken at the podium described a golf course as  
22          essentially agriculture, because grass is managed as  
23          a crop. Open space, green space can include  
24          wholesale nurseries and include -- and some  
25          conservation subdivisions have them. Some

1 conservation subdivisions have them, stables and  
2 pastures as part of their open space. Other  
3 conservation subdivisions have road crops or  
4 community-supported agriculture as part of their open  
5 space. So there's open space which is purely  
6 natural, which is the 514 acres of undisturbed  
7 woodland, but mostly uplands and some lowlands. And  
8 there's another type of green space.

9 Now, part of the confusion may be your ordinance  
10 talks about open space. And we have said and it is  
11 true that the golf course is not inside that open  
12 space designation for the purposes of your ordinance.  
13 So technically, legally in Old Saybrook the golf  
14 course doesn't refer to the open space, although more  
15 colloquially and more broadly it does. So it's a  
16 subset of the more general open space, but it is not  
17 specifically the open space that Old Saybrook  
18 requires. We more than meet the requirement for the  
19 specific type of open space that you require. That's  
20 the 514 acres of undisturbed woodland. So maybe for  
21 the purposes of Old Saybrook it was incorrect  
22 technically to refer to it as a subset, but it is a  
23 subset of the green space in a more broad sense of  
24 the word, Sal.

25 MR. ARESCO: It seems to me that the golf -- I

1 mean just the way I see it anyway, that the golf  
2 course layout, since it is not open space, gets laid  
3 out after, at the end when you're laying out your  
4 lots. That's when you're laying out your golf  
5 course. In other words, you're not laying -- you  
6 know, it's not being --

7 MR. ARENDT: I would say the golf course --

8 MR. BRANSE: Just wait. Go ahead. Is he done?

9 CHAIRMAN MCINTYRE: I just want to interrupt.

10 MR. ARESCO: I'm trying to understand.

11 CHAIRMAN MCINTYRE: Mr. Jacobson had the floor  
12 here.

13 MR. ARESCO: I'm sorry.

14 CHAIRMAN MCINTYRE: And I would like all  
15 commission members to hold their comments until I  
16 open up the commission to address the applicant.

17 MR. ARESCO: Got you, sorry.

18 CHAIRMAN MCINTYRE: Mr. Jacobson.

19 MR. JACOBSON: I just have one other general  
20 question. We should just stand together.

21 The other question I had really has to do with  
22 one of the principal objectives of this application,  
23 and that's to determine the lockout via the  
24 conventional subdivision plan. And the question that  
25 I have is were the environmental specialists, and

1 particularly Dr. Klemens and Michael Klein, involved  
2 in the development of the conventional subdivision  
3 plan or did they review it and if so do they feel  
4 that it is sensitive to the environmental constraints  
5 on the property?

6 MR. LANDINO: Should I have Michael Klein and  
7 Dr. Klemens make a brief comment on that; is that  
8 appropriate?

9 CHAIRMAN MCINTYRE: Yes.

10 MR. LANDINO: Michael.

11 MR. KLEIN: There's really two ways to look at  
12 this question. The first way to look at it is  
13 strictly from a wetland regulatory standpoint. From  
14 a wetland regulatory standpoint, the conventional  
15 subdivision is entirely appropriate. The road layout  
16 minimizes the number of wetland crossings for a  
17 parcel of this size. The wetland crossings are  
18 located at narrow points in the wetland systems. The  
19 wetland systems are largely retained intact.

20 The conventional plan includes measures for  
21 management of storm water, to prevent adverse impact  
22 in terms of flooding and water quality. So the  
23 conventional plan meets the conventional review  
24 requirements, if you will, for wetland agency for a  
25 subdivision. There's no homes located in the

1 wetlands. There's no septic systems located in the  
2 wetlands. I believe all or virtually all of the lots  
3 are located outside of the wetlands and outside of  
4 the upper review area. So -- and it has a very high  
5 percentage of open space or from a conventional  
6 review standpoint it's entirely appropriate and meets  
7 those standards. What it doesn't do is protect the  
8 ecological resources which the wetlands commission  
9 doesn't have jurisdiction to protect under the  
10 wetlands statute.

11 MR. LANDINO: Dr. Klemens, do you want to add  
12 anything to that?

13 MR. KLEMENS: Michael Klemens for the record.

14 As Michael Klein said the conventional  
15 subdivision certainly conforms to most of the law.  
16 Why I'm interested in the open space, an open space  
17 subdivision is actually -- it provides what can't be  
18 accomplished under the current state of law now is  
19 protection of vernal pools. Since the Alahombay  
20 (phonetically) decision, the ability of commissions  
21 to regulate these things has really been diminished.  
22 And that's the beauty of what I see the importance of  
23 the open space subdivision is that it actually does  
24 provide, through your law, the ability to actually  
25 protect the vernal pools and the upland habitat.

1           So yes, I understand what the conventional --  
2           the conventional subdivision is the conventional  
3           problem. And it's what I'm hoping we can get away  
4           from in the open space subdivision, and that's real  
5           conservation protection.

6           CHAIRMAN MCINTYRE: Thank you.

7           MR. KLEMENS: Is that responsive to what you  
8           wanted to know?

9           MR. JACOBSON: Yes. I'm not here to endorse  
10          either the conventional plan or the open space plan,  
11          one or the other. What I'm trying -- or what it  
12          appears to me is that we are just applying two sets  
13          of standards through these different plans. The  
14          conventional plan has quite a number of locations  
15          where roads are within the 100-foot regulated area  
16          that the commission has jurisdiction for and also  
17          within the 100-foot of the vernal pool envelope. And  
18          it seems like we are not -- we're applying a higher  
19          standard to the open space subdivision. We are  
20          applying a different standard to the conventional  
21          subdivision. And since it's within that 100-foot  
22          regulated area, these are things that the commission  
23          could regulate and eliminate.

24          MR. KLEMENS: I can respond to that. Basically,  
25          a vernal pool with 100 feet around it is not going to

1 survive long-term. I think that's what I have been  
2 trying to say. A vernal pool requires a 100-foot  
3 envelope. It then requires the 100- to 750-foot  
4 zone, which 75 percent remains open. Therefore, to  
5 me as a scientist to discuss the -- whether or not we  
6 have 100 feet around a vernal pool is rather  
7 meaningless. So in that sense the conventional  
8 subdivision is meaningless in terms of vernal pool  
9 conservation. And it doesn't matter whether you have  
10 100-foot intrusion or not, because you need to talk  
11 about a much, much larger area.

12 MR. LANDINO: And I think it's -- the point of  
13 our presentation this evening was to try to  
14 communicate that if you take the conventional  
15 approach to the subdivision layout and design, we  
16 meet all of that criteria. And we've done our best  
17 to avoid wetlands, to avoid steep slopes, and to  
18 respect the regulations as they exist today, which  
19 include admittedly working in regulated areas which  
20 would require an approval by your inland wetlands  
21 commission. But I thought that the effort that we  
22 were trying to communicate with the open space  
23 alternative is that we are able to go well beyond the  
24 minimum bar set by your regulations and typical  
25 environmental regulations in Connecticut, and by



1           doing so we've described a different standard. But  
2           we certainly exceed the same standard applied to the  
3           conventional subdivision, and we are just trying to  
4           give the detail of that higher level that we've  
5           established. I hope that makes sense.

6           MR. JACOBSON: Without debating back and forth,  
7           I guess my point is that if this conventional  
8           subdivision went before the inland wetlands  
9           commission and they applied the typical standards  
10          that they do, that I would doubt very much that they  
11          would approve of roads being constructed within that  
12          100-foot regulated area adjacent to a vernal pool. I  
13          guess that's the point that I am trying to get  
14          across. Which would in turn affect the lot count.  
15          It has nothing to do with whether the conventional or  
16          the open space is better than the other. My comment  
17          is directed solely towards determination of the lot  
18          count.

19          CHAIRMAN MCINTYRE: Mr. Landino, before you  
20          counter, as a member of the wetlands commission,  
21          okay, I think that both of you have good points. And  
22          I think to just kind of go back and forth is not  
23          going to be beneficial at this point.

24          MR. LANDINO: Fair enough.

25          CHAIRMAN MCINTYRE: We have taken both points

1 and both sides.

2 MR. LANDINO: At 11:54 I agree with you,  
3 absolutely.

4 CHAIRMAN MCINTYRE: Mr. Snarski, do you have a  
5 question?

6 MR. SNARSKI: One of them is more of a map  
7 thing, I guess.

8 My name is Richard Snarski. A couple of  
9 questions directed to Michael Klemens. I was  
10 wondering do you have any information concerning the  
11 metamorphs crossing the fairways? That's been a  
12 question on golf courses in the past that I have  
13 worked on, how metamorphs cross and how readily they  
14 cross open fairways. Now or if not for the next  
15 meeting.

16 MR. KLEMENS: There is some movement of  
17 metamorphs over fairways, but generally what the  
18 metamorphs tend to do generally is --

19 CHAIRMAN MCINTYRE: Excuse me. Could you just  
20 define what a metamorph is for me.

21 MR. KLEMENS: A metamorph is a baby salamander.  
22 The ones that emerge around July. Generally --

23 MR. BRANSE: Could you spell that word.

24 MR. KLEMENS: M-E-T-A-M-O-R-P-H. I hope I did  
25 that right. It's a spelling bee here in Old

1 Saybrook.

2 Okay. Generally, that's the whole concept. I  
3 keep trying to bring these pieces back together in  
4 this testimony, because they keep on -- the vernal  
5 pool is a complex system made up of rings, and you  
6 keep on trying to pull the rings apart.

7 What I would like to say is that if you remember  
8 my earlier testimony, I talked about the importance  
9 of the vernal pool envelope. That is that 100 feet  
10 to be left intact. And I said in my testimony that  
11 for many of the young salamanders at least initially  
12 will stay in that first 100-foot zone at least for  
13 the first season or more than one season. And that's  
14 when it gets back to what -- this back and forth  
15 rapport is. A vernal pool without its various rings,  
16 in the previous discussion with Mr. Jacobson, without  
17 its rings is really not a vernal pool. But that's  
18 the importance of that first ring is for those young  
19 salamanders. And yes, there is some movement across  
20 open areas, but they tend to stay closer in and then  
21 as they get larger they tend to disburse.

22 Certainly in terms of crossing open fairways,  
23 the adults absolutely can cross those distances. As  
24 a matter of fact, I've got a study of populations in  
25 Huron County, New York where they are crossing

1 cornfields through the stubble back and forth and  
2 through the ears of corn back that go several hundred  
3 feet. So that kind of open is not as much of an  
4 obstruction for the adults. So that's sort of my  
5 sense on that.

6 MR. SNARSKI: My other question. I was trying  
7 to find in your amphibian herpetology report vernal  
8 pool number 31 on the map. I see there's two number  
9 threes. And I'm wondering is one of these supposed  
10 to be number 31?

11 MR. KLEMENS: Get the big one out, map 2-A; is  
12 that correct?

13 MR. SNARSKI: Yes.

14 MR. KLEMENS: Number 31. For the record, number  
15 31.

16 CHAIRMAN MCINTYRE: Could you speak into the  
17 microphone.

18 MR. KLEMENS: Do we have 2-A, map 2-A?

19 Actually, you found an error and thank you for  
20 calling that to our attention. Vernal pool number 31  
21 is right down here on the map. It should have been  
22 included. It's on all the charts. It is this vernal  
23 pool that actually sits here in the bend of Ingham  
24 Hill Road. It was the one that most recently was  
25 determined. And you'll see it actually -- it's right

1 here. It has a disk around it right here. Right  
2 here. I'm sorry, that's map 28. It's on map 28.  
3 It's on Ingham Hill Road. It's right south of the  
4 village.

5 MR. BRANSE: Central village.

6 MR. KLEMENS: Central village. And yes, it was  
7 for some reason not included. It's on the map. Yes,  
8 it's on there. We'll have to sort of -- that should  
9 be blue and it's number 31. It's actually  
10 interesting about the box turtle and all metamorph  
11 species in it. Thank you for pointing that out.

12 MR. SNARSKI: Thanks. One of my other questions  
13 is -- relates a little bit to what Jeff Jacobson  
14 mentioned. I was wondering why on the conventional  
15 layout the vernal pool, your vernal pool manual is  
16 not being followed, but on the open space one you're  
17 bringing up the envelopes on open space layout.  
18 Under the conventional there was no discussion or  
19 nothing shown concerning the envelopes around the  
20 vernal pools for the lot count under the conventional  
21 layout.

22 MR. LANDINO: It is in our written response. I  
23 could ask one of the lawyers to answer. But vernal  
24 pools are not regulated by the inland wetlands  
25 commission. So we are showing a conventional layout.

1 We are conforming with the regulations that the town  
2 established and is reinforced.

3 MR. ROYSTON: The vernal pools are a  
4 classification of wetlands. They are within the  
5 jurisdiction of the inland wetlands commission. In  
6 order to have the area adjacent to the upland review  
7 area is just that, it is an area within the  
8 jurisdiction of the commission to review, to  
9 determine whether there is any activity in there.  
10 When they review that area, there are two criteria.  
11 A, whether or not there is an impact; B, whether or  
12 not there is any feasible or prudent alternative.  
13 The inland wetlands jurisdiction has to take that  
14 into consideration. It does not have jurisdiction  
15 over other ecological impacts, impacts to habitat  
16 which go beyond the regulated area.

17 So in our responses we have indicated that in  
18 reviewing the conventional subdivision, that it is  
19 true that when you go before an inland wetlands  
20 agency, there will be a struggle one way or another  
21 as to whether or not you will allow activities within  
22 the upland review area, within that 100-foot area.  
23 There will be that review.

24 When this conventional subdivision was done, it  
25 took as much activity as possible out of the 100-foot

1 regulated area. That does not mean that they could  
2 not fight for activities within that 100 feet. And  
3 it certainly doesn't mean that they would not be able  
4 to have activities outside that area. This is a  
5 plan -- when you look at the conventional  
6 subdivision, it is a plan which, if you bring it  
7 before the commission, yes, there is going to be  
8 regulation. There is going to be alternative review.  
9 But what the conventional plan shows is what you can  
10 take into a commission and seek to have approval of  
11 that plan. It is not what this applicant wants to  
12 do, but your regulations say show a conventional  
13 plan. Show a plan which could be approved. And  
14 that's what we did. It is not the plan which we are  
15 asking this commission to approve. And this is why  
16 we have some disagreement with the particular  
17 methodology as to why did you not do the same thing  
18 in your conventional plan as you did in the open  
19 space plan. And one of the simple answers is under  
20 that regulatory scheme you are not required to, and  
21 that's the problem with the conventional plan. And  
22 that's the reason why, when you say to us, well, why  
23 didn't you apply the same standard. The law did not  
24 require us to apply the same standard. And that's  
25 why the environmentalists have said that the plan

1 that they are supportive of, the plan that they have  
2 looked at, the plan that they want to have approved  
3 is the one which is able to take in a higher standard  
4 of environmental review.

5 MR. SNARSKI: Thank you. Do I have time for two  
6 more?

7 CHAIRMAN MCINTYRE: Sure.

8 MR. SNARSKI: Unless I can't find it. Question  
9 for Michael Klein. Vernal pool number 17, did you  
10 find that there was carex lupuliformis in that?

11 MR. KLEIN: The location -- I didn't -- we  
12 didn't consider our locations on the basis of vernal  
13 pool numbers, but there is a map which was up on  
14 the -- I think it's maybe one more back. Yes.  
15 The --

16 CHAIRMAN MCINTYRE: Identify the map, please.

17 MR. KLEIN: Yes. The Site Vegetation map, in a  
18 red, sort of a roundish symbol identifies the  
19 location where carex lupuliformis was found on the  
20 property. Two locations here. These are wetland  
21 numbers, not vernal pool numbers. In two locations  
22 in a wetland in the southeastern quadrant of the  
23 site. One location in a wetland further south of  
24 that, which is near the Atlantic White Cedar swamp,  
25 and one location in a wetland in the utility



1 right-of-way in the western portion of the site.

2 MR. BRANSE: Can you spell it.

3 MR. KLEIN: I'll read it. C-A-R-E-X, second  
4 word L-U-P-U-L-I-F-O-R-M-I-S.

5 MS. GALLICCHIO: And what is it?

6 MR. KLEIN: It's a sedge, falls hop sedge.

7 MR. SNARSKI: Mike, we have a report of it being  
8 in this wetland right here.

9 MR. BRANSE: This one right here means?

10 MR. SNARSKI: Best way is vernal pool 17.  
11 Vernal pool 17.

12 MR. KLEIN: I'll stand corrected by my  
13 colleague, Jim Cowen, who did the detailed vegetation  
14 survey. But my recollection of the results are that  
15 we were aware that it had been found in that area,  
16 that we looked for it in that area and we are not  
17 able to reconfirm it. There were several other  
18 locations on the site where it had been previously  
19 reported, and we weren't able to reconfirm it. Our  
20 opinion is that it appears to be a more sun-loving  
21 plant. And as the vegetation canopy around some of  
22 these wetlands changes, its distribution on the site  
23 changes.

24 The significance of the precise location,  
25 whether it be restricted to the wetlands where we

1 found it scattered throughout the site or whether  
2 it's included within the wetland that Rich Snarski's  
3 referring to in the extreme southeastern portion of  
4 the site is in some ways irrelevant, because there is  
5 no activity proposed within those areas.

6 Does that answer your question, Rich?

7 MR. SNARSKI: Yes.

8 MR. KLEMENS: We couldn't find it. We looked.

9 MR. SNARSKI: Well, it is there. It's been  
10 reported by the state. And I think it's important  
11 that it's shown on the plans, because development  
12 plans change. That's the reason you have done a lot  
13 of work out there showing where all the plants are.  
14 Anything that the state listed and plans can change  
15 through the process. I think it's important that  
16 it's recorded.

17 MR. KLEIN: We can't report it in places where  
18 we can't find it. We believe that and we know that  
19 the distribution of some of these plants move around  
20 over time. We have looked at it for two years. We  
21 didn't find it there. Mr. Cowen is a highly skilled  
22 botanist, is very well aware of the characteristics  
23 of this plan. We don't know whether it was a proper  
24 identification or not before, but if we can't find  
25 it, we can't put it on a map as something that we

1           have found. But there's never been a plan to  
2           introduce any development in that portion of the  
3           property. It's shown within the open space area as  
4           part of our proposal. It's within a wetland. It's  
5           only found in a wetland. I'm not sure how much more  
6           we can do beyond that.

7           CHAIRMAN MCINTYRE: Would the applicant have any  
8           objection to taking Mr. Snarski out there to that  
9           area if he wanted to?

10          MR. KLEIN: Not at all. I'm not sure that it's  
11          identifiable any longer at this time of the year, but  
12          we would be happy.

13          CHAIRMAN MCINTYRE: If it will answer your  
14          question --

15          MR. KLEIN: We will be happy to. We can't  
16          just -- like a surveyor we can't put something on a  
17          map just because someone else says they saw it out  
18          there. We can't do that.

19          CHAIRMAN MCINTYRE: I understand that. But  
20          there seems to be a disagreement about whether it is  
21          or it isn't. And it seems like the best solution  
22          would be if both parties went out, if, Rich, you --  
23          or Mr. Snarski.

24          MR. SNARSKI: We could go out there. It's been  
25          confirmed by the state botanist out there. It was

1 found three years ago. We had a state botanist  
2 finding it, carex lupuliformis. So I know it's  
3 there. But what Mike says some years it could be  
4 just a few plants there. We just want to make  
5 sure -- I felt it's important to have it shown,  
6 because development plans do change. Even though I  
7 realize on the plans right now they are not proposing  
8 any activity in there, but it's a state-endangered  
9 plant.

10 CHAIRMAN MCINTYRE: If he can't find it, can he  
11 put it on the map?

12 MR. KLEIN: The carex lupuliformis has been --  
13 is no longer classified as endangered or threatened.  
14 The most recent list shows it is as a species of  
15 special concern. We just -- the fact that Ken  
16 Metzler found it there three years ago is  
17 interesting, but we can't verify that it's there. I  
18 don't have any reason to doubt Mr. Metzler's  
19 identification, but it's just not there any longer.  
20 I don't know what more we can say about that. We are  
21 happy to go out and look for it with Rich. Jim  
22 identified populations as small as just a few  
23 individuals on the site. So it's not like we only  
24 looked for large and dense growth of the plant. We  
25 looked very, very carefully in all of the areas where

1           it had been reported.

2           MR. SNARSKI: Last question. Was the golf  
3           course layout determined before or after the  
4           biological information was gathered by the  
5           scientists?

6           MR. LANDINO: The golf course in various forms  
7           has been around for a while. We proposed a  
8           preliminary plan as part of the application process  
9           last fall, and at that point Dr. Klemens and  
10          Mr. Klein were engaged but hadn't performed an  
11          extensive amount. Actually, Mr. Klein had, but Dr.  
12          Klemens had not. And after another growing season  
13          and having them both engaged, the golf layout was  
14          revised significantly to reflect those findings. So  
15          I guess, as he suggested, the answer is yes, we did  
16          revise the course after their work, but the original  
17          layout was done prior to their work.

18          MR. SNARSKI: Thank you. That's all. Thank  
19          you.

20          CHAIRMAN MCINTYRE: I guess that's all the  
21          consultants. Are there any other consultants that we  
22          have, Chris? Where did Chris go?

23          MR. ARESCO: To the ladies' room.

24          CHAIRMAN MCINTYRE: Oh, okay.

25          MR. BRANSE: Jim, I have a couple.

1                   CHAIRMAN MCINTYRE: State your name for the  
2 record, please.

3                   MR. BRANSE: I always remind you. For the  
4 record, Mark Branse.

5                   I have a question for Professor Klemens. From  
6 your perspective, assuming a cluster subdivision  
7 rather than a conventional, would that cluster  
8 subdivision be better if there were no golf course?

9                   MR. KLEMENS: In response to that question,  
10 Michael Klemens for the record, I think that -- to me  
11 it's almost an area of how much area and connectivity  
12 you have. And it's right now working with the golf  
13 course. In fact, I think that having the golf course  
14 be sort of that softer type of development in the  
15 sense that animals can still move across it is not  
16 quite as equivalent to pavement. That's based on the  
17 assumptions that the IPM plan will deliver what it's  
18 supposed to deliver. And I have to rely on other  
19 professionals on the team to put this together, but I  
20 don't inherently see a -- an inherent -- as far as  
21 the salamanders and the movement of the salamanders  
22 is concerned, an inherent difference between the  
23 development and the golf course. To me it's about  
24 the connectivity. Does that address your question?

25                   MR. BRANSE: Yes. I have a question for

1 Mr. Hills -- actually, two questions for Mr. Hills.  
2 And I think since I am reading off of the screen, I  
3 am going to ask all my questions at once and then  
4 hand you the microphone. I think you'll be able to  
5 keep them all together.

6 My first question involves the driving range and  
7 whether you designed the driving range as well as the  
8 golf course and whether the driving range is a  
9 critical element of the golf course. I'm not a  
10 veteran golfer, but I am not aware of any golf  
11 courses that have a driving range as a component of  
12 them. And that driving range in part is separating  
13 two of the village clusters, and I'm wondering why  
14 that's important and if you were involved in  
15 designing it in.

16 In line with that, holes 3, 10, 18, and the  
17 driving range appear to be allowing a golfer of less  
18 than professional skill to be driving the golf ball  
19 into a resident dwelling unit. I'm familiar with the  
20 golf course called the Minchug (phonetically) golf  
21 course. It's a small one - I'm sure you're not  
22 familiar with it - which was designed by a  
23 professional golf course architect and now has  
24 30-foot nets strung along the sides of the fairways  
25 to prevent golf balls from golfers of my ability

1 from driving the golf balls into the houses.

2 And then my last question was how a golfer gets  
3 from the ninth hole to the tenth hole.

4 So three basic questions. The role of the  
5 driving range and the people driving golf balls into  
6 houses 3, 10, and 18, and the driving range, and then  
7 the transition from the ninth to the tenth hole.

8 MR. HILLS: First question, is a driving range  
9 an integral part of a golf course? For a good,  
10 up-scale pretty much always nowadays designed  
11 18-hole, private golf club, a driving range is a key  
12 ingredient. It would be exceptional for a person, if  
13 they had a choice between two courses or among  
14 several courses, that they would join a course if it  
15 did not have a driving range. So it is an integral  
16 part of the course. That's the answer to that  
17 question.

18 As to number three, let's see here. The  
19 question on three was what?

20 MR. BRANSE: Whether golf balls could be driven  
21 into the dwelling units.

22 MR. HILLS: No. On number three they would not  
23 be driven into the dwelling units. First, there's a  
24 tree buffer, and then there's a distance buffer, and  
25 then there's the fact that it's not as long as a shot



1 as would normally be hit off of a tee. So it would  
2 be very unlikely, it would be very rare that a shot  
3 would get to that corner dwelling unit or one of  
4 those two dwelling units as pictured there.

5 MR. BRANSE: You say very rare.

6 MR. HILLS: I know it.

7 MR. BRANSE: How rare?

8 MR. ARESCO: One in five?

9 MR. HILLS: It would hardly ever happen.

10 Number ten. On number ten the corridor for the  
11 golf hole is conventionally wide and conventionally  
12 regular in terms of residences that border a golf  
13 hole. There are virtually thousands of golf holes in  
14 the country that have that dimensional relationship.

15 And number 18 is it the same question?

16 MR. BRANSE: (Nods head)

17 MR. HILLS: Okay. Off of a tee it would be --  
18 there's an exceptionally wide dimension here. And so  
19 it would be, again, very rare, not impossible, but  
20 rare and conventional that these dimensions are  
21 fitting for the design of the golf course as it would  
22 relate to a residential area. And the same holds  
23 true for the second shot, which is a shorter shot  
24 nominally than the first shot. The relationships  
25 here, spacial relationships are normal conventional

1 for the development of a golf course in a  
2 subdivision.

3 MR. BRANSE: And with these residential  
4 densities?

5 MR. HILLS: Yes. It doesn't make a difference.  
6 There are many examples of that kind of residential  
7 densities where there are condominium parcels  
8 adjacent, contiguous to the golf holes.

9 And then the walk from nine to ten, okay. Where  
10 are we here? Let's see. Well, nine, it just comes  
11 through the clubhouse complex and gets over to number  
12 ten. It would be fairly usual that at the end of  
13 nine holes you would go by the clubhouse and stop and  
14 get something to eat or something to drink and go on  
15 to the tenth hole.

16 MR. BRANSE: I guess my question is in these  
17 plans I didn't see any walkway between nine and ten  
18 except through the parking lot.

19 MR. HILLS: It is kind of obscure, but it comes  
20 here, comes here, comes along the edge and then it  
21 comes over here, and comes around here, and comes  
22 down here to ten. It's obscure on the drawing.

23 MR. BRANSE: So it's basically going through the  
24 streets of the central village, actually through like  
25 the sidewalks of the central village.

1           MR. HILLS: No, it's not exactly. It's skirting  
2           the residential. It goes here, goes between this  
3           parking lot for the clubhouse and the residential  
4           community, and cuts across here, and comes over here.

5           MR. BRANSE: You're indicating across the  
6           southern edge of the green.

7           MR. HILLS: Of the open space, that's correct.

8           MR. BRANSE: It's the open space that is --

9           MR. HILLS: It's cutting through here. It's not  
10          cutting through any residential community.

11          MR. BRANSE: All right. Thank you.

12          MR. HILLS: You're welcome.

13          MS. GALLICCHIO: Your first question wasn't  
14          answered, whether he designed it.

15          MR. BRANSE: Did you design the driving range?

16          MR. HILLS: Oh, yes, yes. It's an integral part  
17          of the design of the golf course, yes.

18          MR. BRANSE: Thank you. A question for  
19          Professor Arendt. And is it Arendt by the way? I've  
20          pronounced it both ways.

21          MR. ARENDT: Arendt.

22          MR. BRANSE: Neither one, okay.

23                 I have -- like others I have read the books that  
24                 you have written and attended lectures that you have  
25                 given. There's been some discussion by other members

1 of your team about avoiding the typical subdivision  
2 grid in favor of something more creative. And yet as  
3 I look at the villages, they are -- or at least they  
4 appear to be grids. The central village is extremely  
5 long, very linear between two sets of fairways. And  
6 these don't look like anything that I've ever seen  
7 described in any of your books or lectures. And I'm  
8 curious about that, as to both the lineality, the  
9 grid, and also the lack of focus around the green and  
10 the -- this long strip of village so-called.

11 MR. ARENDT: Thank you, Mark. Randall Arendt  
12 responding.

13 I should give you a copy of my latest book,  
14 Crossroads, Hamlet, Village, Town: Design  
15 Characteristics of Traditional Neighborhoods, Old and  
16 New. Actually, it's my favorite book. And it's my  
17 favorite book I think because it takes conservation  
18 design to a new level. Say how do you really do it  
19 when you're in an area with central water, central  
20 sewer as opposed to in a place that has to be very  
21 low density, maybe bumpy terrain. This terrain here  
22 is quite flat. It's upland. It's flat. It actually  
23 has surprisingly little wildlife habitat, as we  
24 documented in our surveys. And it's not so much the  
25 grid that we have been talking about as something we

1 don't want to emulate, but rather the sprawl.

2           It's the compact nature of conservation design  
3 that interests me as a land conservationist. And  
4 whether we have compact design in organic roads that  
5 follow the bumpy terrain or whether we have compact  
6 design in a more regular fashion, like the Orthogonal  
7 River Mr. Jefferson promulgated in the early 19th  
8 century. In many, many small towns across the  
9 continent, these small towns are based upon a very  
10 regular grid. I have no problem with a regular grid  
11 as long as it doesn't go on for miles and miles like  
12 Manhattan Island. But this is just a very short  
13 block and then it takes another turn.

14           We actually see -- and I talk about this in  
15 figure three, about the terminal vista. The terminal  
16 vista is more I think the curving of the street gives  
17 a great amount of variety to this. It's just not one  
18 long street that is straight as an arrow. There's a  
19 bend in it. And there's the bend because the  
20 topography bends. If the topography had bent more,  
21 the street would have bent more. If the topography  
22 would have bent less, we probably would have found  
23 some sort of artificial way of terminating the vista  
24 with something special. But we tried to have small  
25 greens as focal points. There are two in each.

1           Actually, three. One, two, three greens here. This  
2           one is highly visible, the terminal vista coming out  
3           this way. And we have introduced several more greens  
4           in here and the green land down there. All of these  
5           of course are surrounded by substantial open space.  
6           So it's not like they are buried in a vast  
7           organization.

8                     And the singular groves are very special. You  
9           don't often find them in any type of subdivision.  
10          Most developers always put development on both sides  
11          of the street, but here we have two very major  
12          streets that are open space on one side.

13                    Now, you say it's, you know, fairly linear.  
14          Well, it is linear because of the land form. And  
15          many historic villages in Connecticut and throughout  
16          New England are currently linear. They are linear  
17          along a ridge line. Newtown, Connecticut is a good  
18          example of that, very linear streets. You go to  
19          Suffield, you go to Long Meadow, Massachusetts, back  
20          to the 1630's, very linear streets. You get into  
21          stream valleys, they are linear. They curve linear  
22          because the streams curve. So linearity is a part of  
23          our heritage in compact, traditional villages. And  
24          it is the compactness that interests me as a  
25          conservationist.

1           And they are linear when the sites tell us to be  
2           a little bit more regular and they are very organic  
3           and curb linear when other parts of the property are  
4           more bumpy and topographically interesting. But in  
5           all cases we have tried to design it much more  
6           compactly than the conventional alternative.  
7           Therefore, that's what the conservation components --  
8           that's the conservation driver.

9           MR. BRANSE: I guess my follow-up would be,  
10          though, I understand what you're saying about  
11          compactness. And I am aware, for example, of towns  
12          like Lebanon that are built around a linear green.  
13          This is not designed around a linear green at all.  
14          There's a golf course, a fairly long strip of golf  
15          course along one side. Why the grid? Why not  
16          something that is more curb, that has more visual  
17          interest? Why, for example, that tail to the south  
18          end of just a single row of houses? It just doesn't  
19          look like anything that you have espoused before.

20          MR. ARENDT: Actually, in the last two or three  
21          years every slide show I have shown has had a  
22          component about that which relates to that cross  
23          village towns, but the new urbanism has been a  
24          growing movement in the design field. And I have  
25          seen that as a way of achieving conservation

1 objectives, be more compact. But if you go to  
2 Newtown or Suffield or Long Meadow, the streets are  
3 straighter than this and they go on longer in a  
4 straight fashion. So New England has a tradition  
5 going back to the early to mid 17th century of very  
6 linear villages. We were just following land forms  
7 the same way that those communities have done.

8           Could we have put more wiggle in it? Yes. I  
9 think we probably could have put more wiggle in it.  
10 But a wiggle just for the sake of wiggle is sort of  
11 just another artifice. When we follow the land forms  
12 that wiggle, then we are following I think nature,  
13 designing with nature. And a lot of this follows the  
14 more bumpy terrain. But when the terrain is very  
15 regular, it just -- we are responding to that with a  
16 more regular type of arrangement, which is very  
17 traditional in New England. We have two divisions in  
18 New England. One is very organic; one is a little  
19 bit more formal.

20           MR. LANDINO: Just add Old Saybrook is linear.  
21 Main Street grid patterns in the neighborhoods. So  
22 this is fairly typical of what this represents.

23           CHAIRMAN MCINTYRE: Okay. At this time I would  
24 like to --

25           MR. HILLSON: Mr. Chairman, I have one question.



1 I'm Bruce Hillson. I'm the traffic consultant.

2 CHAIRMAN MCINTYRE: Okay. You caught me off  
3 guard. I'm sorry about that.

4 MR. HILLSON: I'll drag this on a little longer.  
5 I'm Bruce Hillson with Traffic Engineering Solutions.  
6 I'm the town's traffic consultant.

7 I have some questions relating to the roadway  
8 that goes between 153 and Bokum Road. I've heard it  
9 referred to on different occasions tonight as a  
10 primary roadway, a major roadway, a spine. Several  
11 questions regarding that road. One, what is the  
12 length of the road? And following up on that is it  
13 considered a local residential street as defined in  
14 the subdivision road regulations that defines a local  
15 residential street as a street primarily providing  
16 access to abutting lots used for residential purposes  
17 or is it a fetus street, which is a street of  
18 considerable existing or potential continuity on  
19 which traffic that passes abutting lots will be  
20 dominant?

21 MR. LANDINO: To answer the -- I'll let  
22 Attorney Royston answer and then I'll follow up.

23 MR. ROYSTON: Very quickly, the -- going back to  
24 2000 when there was a previous application which had  
25 a road system, the town has under subdivision

1 regulations and town road standards, alternate road  
2 standards. And that case was made to the board of  
3 selectmen with respect to that development for the  
4 road network to use alternate road standards. And  
5 there was a specific recommendation made by the board  
6 of selectmen and passed on to the reviewing agencies  
7 that all the roads, all the roads within the  
8 subdivision should be designed to the local  
9 residential street standards. And the purpose of  
10 that recommendation was to -- it is my understanding  
11 to have more of a calming effect. It was the same  
12 idea as with Schoolhouse Road, where initially they  
13 wanted to widen and straighten that road. And it was  
14 determined that they would rather have it as a more  
15 local residential street. Those were the standards  
16 that were adopted in both, using the conventional  
17 subdivision plan as well as the open space  
18 subdivision plan, using the alternate road standards  
19 designed to local roads and residential street  
20 standards.

21 MR. BRANSE: Mr. Royston, I have to correct you.  
22 And I don't need the mike. The roadway you were  
23 referring to was not a through road in two respects.  
24 It did not go from Bokum Road to 153, and it was  
25 severed in the midpoint by a private stretch of road

1 not open to the public that passed through the golf  
2 club.

3 Second of all, I have not yet seen a vote by the  
4 board of selectmen of the alternative road  
5 specifications even on that application. The  
6 question that Mr. Hillson is asking is not about the  
7 2000 application. He's asking questions about the  
8 current application. So that's what I hope he'll  
9 have an answer to.

10 MR. ROYSTON: I believe his question was did it  
11 meet the standard set forth in subdivision  
12 regulations. The standard for the --

13 MR. BRANSE: No, that's not what he asked.

14 MR. HILLSON: No.

15 MR. BRANSE: He asked him to explain --

16 MR. HILLSON: I'll repeat the question. The  
17 question was, first of all, how long is the roadway?

18 And secondly, is it considered a local  
19 residential street as defined under the zoning -- or  
20 the subdivision regulations or a feeder under the  
21 subdivision regulations?

22 MR. ROYSTON: The first question I'll ask  
23 somebody else to give me the total length.

24 Two miles, the length of the roadway.

25 The second question with respect to is it a --

1 does it meet the local residential street or the  
2 feeder street regulation?

3 MR. HILLSON: Yes.

4 MR. ROYSTON: It meets the local residential  
5 street regulation.

6 MR. HILLSON: As a follow-up to that, the  
7 definition of a local residential street says that  
8 it's a street prominently providing access to  
9 abutting lots used for residential purposes. Could  
10 you point out to me where those lots are or how many  
11 lots there are that have direct access to that  
12 roadway and where they are located. If you can't do  
13 it tonight, perhaps --

14 MR. LANDINO: If you're asking -- I need to  
15 review the regulation, because we are down a path I'm  
16 not sure I would have gone. Do you want to continue?  
17 I mean it's an intuitive question.

18 MR. ROYSTON: I would request that you review  
19 the report that has been submitted in our responses,  
20 because that goes into detail with respect to both  
21 the alternate design standards that have been used  
22 with respect to the roadway design. So it has been  
23 designed to local residential street standards. And  
24 there's a -- we have attached minutes of the board of  
25 selectmen meeting of September 16 in which they

1 encouraged the use of the alternate design standards.  
2 And I think that the specific detail of that is in  
3 the written response.

4 MR. LANDINO: Add to that if we are talking  
5 about design standards as the response to how you  
6 categorize that road, then Mr. Royston's response is  
7 correct. I'm not sure what the questions are leaning  
8 toward. That's why I would want clarification. It's  
9 clear that there are no residential lots that  
10 directly access the road that connects Bokum Road  
11 with Route 153. What connects that road is other  
12 streets which provide access to lots.

13 MR. HILLSON: I think that answers my question.  
14 Thank you.

15 CHAIRMAN MCINTYRE: Does any of the other  
16 consultants have any questions at this time?

17 (No response)

18 CHAIRMAN MCINTYRE: At this time I would like to  
19 open up questions from the board, and I am sure they  
20 have plenty of them.

21 MS. GALLICCHIO: How late are we planning on  
22 staying? I've got a lot of questions.

23 CHAIRMAN MCINTYRE: Well, I was going to say  
24 that we have -- one of the things we do have, we have  
25 a lot of information that was given to us in this

1 report. And we haven't reviewed the report yet, so  
2 that may answer many of the questions that we do  
3 have.

4 Now, what I was going to bring up is if anybody  
5 has any questions that they can't -- if they have  
6 questions you don't need answered tonight, let's not  
7 go through them. If you have a question that has to  
8 be answered tonight and you have -- you feel you need  
9 to ask it, then by all means ask it, but try to keep  
10 it as short as possible.

11 MR. ARESCO: I have one I just wanted to ask  
12 Bob. You're talking about the firehouse, Bob, and  
13 the fact that it would provide us with rapid  
14 response. What I would like to get clarified is --  
15 and this could be answered maybe next week, but I'll  
16 throw it out this week, is that there will be one  
17 firefighter living out there. And I was under the  
18 understanding that in responding to a fire, that  
19 there has to be a certain number of firemen present  
20 on site. So what I would like to do is clear that up  
21 and find out if that's so and what's the number of  
22 firemen that should be there on site before they can  
23 fight a fire. And secondly, how that impacts the  
24 response time. In other words, how does having one  
25 fireman there improve the response time if in fact it

1 requires more than one fireman to be there in order  
2 to fight a fire.

3 Now, I was talking to some people that said that  
4 they cannot go into a fire, a building that there's a  
5 fire there alone. And also, that before they can  
6 even enter the building there has to be so many  
7 firemen backup behind them. So I would like to get  
8 that cleared up. Just so I understand if this is  
9 really meaningful, this one fireman that's going to  
10 be out there.

11 CHAIRMAN MCINTYRE: Stop. Change tape.

12 MR. ARESCO: What did I do?

13 (Tape's changed)

14 CHAIRMAN MCINTYRE: Go.

15 MR. ARESCO: I'm done. If we can get it for  
16 next week, unless you know the answer.

17 MR. LANDINO: I'm sorry.

18 MR. ARESCO: Unless you know the answer.

19 MR. LANDINO: I can give it my best shot. I'm  
20 not a firefighter nor am I an expert in that area,  
21 but this facility was suggested by --

22 MR. ARESCO: I understand that. But what I'm  
23 getting at is to see how meaningful it is in your  
24 conversation where you're mentioning that it improves  
25 the response time. I would just like to clear it up,

1           regardless of who recommended it.

2           MR. LANDINO: Sure. I was going to try to do  
3           that. Your -- originally your fire department  
4           recommended a fire substation in the northern reaches  
5           of town, which was consistent with their request for  
6           that facility historically in the northern section of  
7           Old Saybrook because of the location of the firehouse  
8           on Main Street in relation to the northern reaches of  
9           the neighborhoods on Ingham Hill Road and Bokum Road.

10          MR. ARESCO: I understand that.

11          MR. LANDINO: I believe, and I am no expert, but  
12          this is what I will verify for next week.

13          MR. ARESCO: How many firefighters do they need  
14          out there to respond?

15          MR. LANDINO: Right. It's not -- you are  
16          correct in that a single firefighter cannot walk into  
17          a building that's burning. But there is a clear  
18          advantage to having a first responder arrive on the  
19          scene of any emergency, including a fire, and that  
20          fireman is typically EMT certified. So it could be  
21          many emergencies that are not even fire related that  
22          would result in increased public safety as a result  
23          of a first responder coming on scene quicker than he  
24          would if he were starting from Main Street.

25          But as it relates to fire fighting particularly



1 and what the town's thinking is, was when they  
2 suggested it, I'll get that for you for next week.

3 MR. ARESCO: Yeah, no problem. And then I  
4 wanted to thank Dr. Arendt for his explanation. I  
5 understand it. Wherever you are. I looked at my  
6 notes last week and I know what you mean as to how  
7 that fit in. Thank you.

8 CHAIRMAN MCINTYRE: Any other board members have  
9 any questions this evening? Judy.

10 MS. GALLICCHIO: I have a question, but not  
11 really for the applicant. I have a question about a  
12 report that we got from the conservation commission.  
13 And perhaps Christine can find out for next time for  
14 us, and that is that in the report there was mention  
15 of eliminating part of road A, between C and H. And  
16 I would like to see exactly where that is on the map.  
17 From that description I had a hard time determining  
18 where it was. So I would like some more information  
19 on that if we could have it.

20 MS. NELSON: Okay.

21 MS. GALLICCHIO: And my other questions can  
22 wait.

23 CHAIRMAN MCINTYRE: Okay, Stuart.

24 MR. HANES: One question. Regarding the town  
25 property up there at the top, does the town have

1 access to that piece of land? Will they via the  
2 roads?

3 MR. LANDINO: They do not currently, except I  
4 believe through the CL&P easement, but that wouldn't  
5 be available for vehicle access. But under the  
6 proposed plan we have provided extensive road  
7 frontage and would be willing to grant access to any  
8 part of that road frontage that the town needed. And  
9 I'm sure that that will become a condition, if it  
10 gets that far, that will happen.

11 MR. HANES: Right. That's my concern. The  
12 other one is in the event that the golf course was  
13 not approved, what would be the impact on your  
14 development?

15 MR. LANDINO: This is really a question for  
16 Mr. Stern, but I'll give it my best shot and if he  
17 wants to add to it, please feel free. But from our  
18 point of view they are a single proposal. And the  
19 elimination of the golf course would mean the  
20 elimination of the cluster subdivision as development  
21 opportunity because of value absorption and the  
22 overall market demand for the combined development.  
23 Is that reasonable? This is Sam Stern.

24 MR. STERN: My name is Sam Stern, and I  
25 represent the owner's interest.

1           They are an integral part -- the golf course is  
2           an integral part of the open space plan in  
3           consideration for significant reduction in density  
4           that we might otherwise be entitled to under a  
5           conventional plan. And in exchange for, for example,  
6           contributing some of the open space as well as  
7           economically generated to make the whole thing work.  
8           The residential units feed off the golf course and  
9           the golf course drives the economic benefit of the  
10          residential community.

11           MR. HANES: Thank you. And I guess one last  
12          question. Have you had any information from  
13          Westbrook about the approval or disapproval of the  
14          exit onto 153?

15           MR. LANDINO: Actually, we have an application  
16          pending with their inland wetlands commission. So we  
17          are just starting that process. So we don't have any  
18          firm indication either way other than that they are  
19          reviewing our technical information.

20           MR. HANES: Thank you.

21           MR. LANDINO: And a public hearing is scheduled  
22          in January.

23           CHAIRMAN MCINTYRE: Anybody else on the board  
24          have any questions?

25           MR. TIETJEN: Yeah. I have about eight without

1 even going through my notes. So I don't want to ask  
2 any one of them before next week. Would it be okay  
3 to write them out and let Christine forward them to  
4 the applicants there?

5 CHAIRMAN MCINTYRE: Well, you can ask them next  
6 week.

7 MR. TIETJEN: Oh, next week I'll ask them. We  
8 might not have anything else to talk about after  
9 tonight.

10 I really want to -- I know you're not supposed  
11 to do this, but --

12 CHAIRMAN MCINTYRE: Then don't.

13 MS. GALLICCHIO: Then don't.

14 MR. TIETJEN: I would like to commend especially  
15 the ecology branch for a very rich bunch of  
16 information. So that will help. But next week I  
17 won't be nice.

18 CHAIRMAN MCINTYRE: Thank you. Janis, do you  
19 have anything?

20 MS. ESTY: No.

21 CHAIRMAN MCINTYRE: Okay. I have nothing  
22 tonight. So I guess --

23 MR. HANES: I would like to make a motion --

24 CHAIRMAN MCINTYRE: Wait. Hang on, hang on.

25 MR. BRANSE: Mr. Chairman.



1 reduced would be nice for everybody. I've gotten  
2 requests from members of the commission for reduced  
3 color copies of the boards that have been presented.

4 MR. LANDINO: So a reduced set of all of these  
5 boards for each commission member and then a full set  
6 for viewing at the -- in your office, Christine.

7 MS. NELSON: Yes.

8 MR. BRANSE: Just so that if someone asks to see  
9 them, they are not being deprived of the opportunity  
10 to view them between now and next Wednesday. You  
11 know what I'm getting at.

12 CHAIRMAN MCINTYRE: Any other housekeeping  
13 issues?

14 MR. BRANSE: That was the main thing.

15 CHAIRMAN MCINTYRE: In view of the late hour  
16 that we have tonight and just to throw this out there  
17 to see if the board would be able, maybe we could  
18 start -- you know, I don't think it's been publicized  
19 yet. If we could start a meeting at seven o'clock.  
20 Does anybody have any problem? Sometimes I know some  
21 people have trouble getting here. But if we could  
22 start -- if you can't that's fine. We'll stick with  
23 the 7:30. I just thought I'd throw that out there,  
24 give us a little more time, if you can do it. If  
25 not, if you don't think it's a good idea. I kind of

1 have a few reservations if -- the general public  
2 pretty much knows our schedule now. I don't know if  
3 it's a good idea to change until seven.

4 MR. BRANSE: Well, the public -- you can  
5 announce --

6 CHAIRMAN MCINTYRE: We'll make notice.

7 MR. BRANSE: Well, you can't make legal notice  
8 by next week, because it's too short a time period.

9 Christine, the legal notice that was published  
10 included all three dates. Did it include a start  
11 time on all three nights?

12 MS. NELSON: Did it include all three dates?

13 MR. BRANSE: Did it include all three is the  
14 first question, I guess?

15 MS. GALLICCHIO: I think it only had the first  
16 date is my recollection, but I'm not positive.

17 MR. BRANSE: If it was only the first date, the  
18 3rd, you can announce tonight the date, time, and  
19 place of continuation. And it can be seven or 7:30  
20 or eight, as long as you announce it before we  
21 adjourn tonight.

22 CHAIRMAN MCINTYRE: So my question still remains  
23 does anybody feel that we should -- how does the  
24 board feel, do you want to do seven or 7:30? Which  
25 is preferable?

1 MS. GALLICCHIO: Seven is fine.

2 MR. HANES: Seven is fine with me.

3 CHAIRMAN MCINTYRE: Janis, can you make it?

4 MS. ESTY: Um-hum.

5 CHAIRMAN MCINTYRE: Okay.

6 MR. HANES: I would like to make a motion then  
7 that we adjourn this meeting to next -- special  
8 meeting or -- and the next one is our regular  
9 meeting.

10 CHAIRMAN MCINTYRE: Yeah. We are continuing the  
11 public hearing. That's the most --

12 MR. HANES: Public hearing A for The Preserve  
13 Special Exception for Open Space Subdivision,  
14 934 acres total and open space 542.2 acres. Ingham  
15 Hill and Bokum Roads, Map 55, 56, and 61; lots 6, 3,  
16 15, 17, 18. Residence Conservation C District,  
17 Aquifer Protection Area. Applicant: River Sound  
18 Development, LLC. Agent: Robert A. Landino, P.E.

19 MR. BRANSE: To --

20 MR. HANES: To next Wednesday, November 17, at  
21 7:00 p.m.

22 MR. TIETJEN: Where?

23 MR. HANES: The middle school auditorium, 60  
24 Sheffield Street.

25 MS. GALLICCHIO: I'll second the motion.



1                   CHAIRMAN MCINTYRE: The motion is made by Stuart  
2 Hanes, seconded by Judy Gallicchio. Any discussion?

3                   (No response.)

4                   CHAIRMAN MCINTYRE: Hearing none all in favor.

5                   (Affirmative response given by all.)

6                   CHAIRMAN MCINTYRE: Opposed.

7                   (No response.)

8                   CHAIRMAN MCINTYRE: Approved. Okay.

9                   Can I get a motion to adjourn?

10                  MS. GALLICCHIO: I move we adjourn.

11                  MR. HANES: I'll second it.

12                  CHAIRMAN MCINTYRE: Motion is made by Judy  
13 Gallicchio, seconded by Stuart Hanes to adjourn.

14                  Meeting is adjourned.

15                  (Whereupon, the meeting was adjourned at

16                  12:54 a.m.)

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C E R T I F I C A T I O N

I, Debrah Veroni, Registered Professional Reporter, do hereby certify that the within and foregoing 193 pages are a true and accurate transcription of my steno notes taken at the Public Hearing held by the Old Saybrook Planning Commission on the 10th day of November, 2004, at the Old Saybrook Middle School, 60 Sheffield Street, Old Saybrook, Connecticut, in the matter filed In Re: The Preserve Special Exception for Open Space Subdivision.

Certified this 3rd day of December, 2004.

Debrah Veroni, RPR, LSR

