

INLAND WETLANDS AND WATERCOURSES COMMISSION

Town of Trumbull

CONNECTICUT

www.trumbull-ct.gov

TOWN HALL  
Trumbull

TELEPHONE  
(203) 452-5000



APRIL 7, 2015

MINUTES

CALL TO ORDER: The Chair called the meeting to order at 7:04 p.m.

PRESENT: Chairman Richard Girouard Richard Deecken  
Vice-Chairman John Lauria David Verespy, Alternate (Not Voting)  
Kevin Chamberlain, Secretary Andrew Lubin, Alternate (Not Voting)  
Carmine DeFeo David Molgard, Alternate (Voting)  
Guido Picarazzi

ABSENT: Mark MacKeil

ALSO

PRESENT: William Maurer, P.E., L.S., and Town Attorney Vincent Marino.

PUBLIC HEARING: Commissioner Chamberlain read the public hearing notice into the record as follows:

TRUMBULL INLAND WETLANDS AND WATERCOURSES COMMISSION  
NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN THAT the Inland Wetlands and Watercourses Commission of the Town of Trumbull will hold a Public Hearing on Tuesday, April 7, 2015 at 7:00 p.m. at the Trumbull Town Hall 5866 Main Street, Trumbull, CT on the following application(s):

Application 14-47, John Mandanici, Jr. - Permit approval to relocate the road due to safety and circulation concerns and Town regulations for the for the approved 4-single family residential lot subdivision within a regulated area at 254 Shelton Road. (All houses and driveways outside the regulated area) (Opening of the Public Hearing extended from the March 3, 2015 meeting to April 7, 2015)

A copy of the application and maps are on file for public inspection in the Town Engineer's Office, Town Hall, Trumbull, Connecticut.

Dated at Trumbull, Connecticut this 25<sup>th</sup> day of March, 2015.

Richard H. Girouard, Sr., Chairman

Inland Wetlands and Watercourses Commission of the Town of Trumbull

1<sup>st</sup> Publication in CT Post 03/25/2015 (Authorization #15-014800 03/25/2015)

2<sup>nd</sup> Publication in CT Post 04/02/2015 (Authorization #15-014800 04/02/2015)

NEW BUSINESS:

1. Application 15-06 , Richard Hansen - Permit approval to construct two single-family dwellings and appurtenances, driveway, detention facilities, drainage, utilities, grading and stonewalls within a regulated area at Huntington Turnpike (J07/00001)

Mr. Maurer stated he had spoken with the applicant's engineer, Mr. David Bjorklund, Jr. Mr. Bjorklund had a conflict and could not attend this meeting. The application would be received.

2. Application 15-07, Jan and Nancy Nagel-Permit approval to replace the existing house including excavation and fill for proposed patio, construction of a recreation structure with patio and minor grading, installation of a generator and 44 L.F. of recharge galleries and the removal of specific trees with replanting of trees and shrubs per the landscaping plan within a regulated area at 161 Pinewood Trail.

Mr. Nagel was present and indicated they are building a larger home and the plans have been submitted. As they worked through the plan it was determined it by the applicant it was prudent to demolish the existing house and building a new house on the lot. The plans are for a new house.

Motion (Chamberlain), seconded (Deecken) to CLOSE New Business.

VOTE: Motion CARRIED unanimously.

The Chair CLOSED New Business at 7:08 p.m.

OLD BUSINESS:

The Chair OPENED Old Business at 7:09 p.m.

3. Application 15-02 , Patrick Doran - Permit approval to construct a 24'x18' addition and a 10'x 6' deck within a regulated area at 17 Old Farm Road.

Mr. Lou Mason, owner of the property was present and indicated the application is for the addition of a bedroom and bathroom. There is no foundation planned, it would be off the ground to meet the second floor. Mr. Mason confirmed for the commission that the addition at its closest point is 22' from the property line. The wetlands are just beyond that area. There is lawn on the property between this activity and the wetlands. The stonewall on the property is not new and has been there as long as he has owned the property, 35 years.

The commission reviewed the timeline on applications 15-02 and 15-03. They both had been submitted prior to the March 2015 meeting. The March meeting had been cancelled due to weather therefore the date of receipt for the application is 35 days from the submittal date and the commission cannot act on the applications for 14 days after the date of receipt, April 9<sup>th</sup>.

4. Application 15-03, Stanley & Zmira Battat - Permit approval to re-establish lawn within a regulated area at 1487 Huntington Turnpike.

Mr. Benjamin Grant the tenant at this property was present and stated that he had permission from the owner to do the aforementioned work. The owners had indicated to the tenant that they had planned to clear the area and establish a lawn, at which point the owner gave him permission to do the clearing. He was notified by the Town that the work was a violation and immediately complied. Mr. Grant stated that he felt very bad that this happened and noted he was unaware that a permit was necessary. He had requested the owners hire an engineer and get the IWWC application in sooner multiple times. He ended up hiring the engineer himself and wants to do what is right. Mr. Maurer stated the lot was clear-cut to the edge of the pond. The Chair indicated the property adjoins Town property. Mr. Grant was very accommodating, installed silt fencing immediately, seeded the property with a winter mix as requested. The site has been stabilized. Mr. Grant stated he had purchased trees but has since put it them to the side. The Battat's told Mr. Grant that the property had previously been lawn to tennis court. The vine growth was intense and even ended up in the hospital from the poison ivy. Mr. Benjamin Grant granted permission to continue the application to the May 2015 meeting.

Motion (Lauria), seconded (Deecken) to continue to the May meeting.

VOTE: Motion CARRIED unanimously

5. Application 14-50, Rick Fazio - Permit approval to construct a deck and patio, plant arborvitae along the northern portion of the property and install fencing around the garden area within a regulated area at 110 Daniels Farm Road.

Mr. Rick Fazio of 110 Daniels Farm Road was present and indicated he wanted to build a deck and patio. On the north side of the property you can see directly into the neighbor's house and vice versa. The exact number of trees is unknown until a species is chosen. The area he wants to screen is approximately 100' in length. The application includes a small garden with fencing around it to protect the crop from animals. Mr. Fazio moved to this property in July 2104. The shed is approximately 10-15 years old and was there when he purchased the property. The mapping the applicant used is from the Town GIS. Mr. Fazio confirmed the two sheds already exist. Mr. Maurer could not indicate whether the fence would impact the wetlands. Commissioner Lauria spoke against approving the garden fence without having gone onsite for an inspection first. Mr. Fazio stated he could put in a raised bed garden instead if the commission wanted. The stonewall is before the watercourse. The commission discussed whether conducting a field inspection and the possibility of approving only a portion of the application. The fencing would be made of metal stakes. The applicant agreed to staking the garden if there was to be a field inspection. Commissioner Deecken suggested the garden be moved further from the watercourse noting this is a small portion of the application that does not have a significant impact. Commissioner Verespy indicated there is a possibility the garden could be in the wetlands if the GIS mapping is approximate. The commission agreed if the garden portion needed to come back with a separate application they would waive the fees. The Chair confirmed for Commissioner Chamberlain that a continuance would not be necessary.

6. Application 14-51, Lamar Outdoor Advertising - Permit approval to maintain and repair the footings of four (4) existing billboards, will hand dig 4x6x4 trenches at each base post to install "T" or "dead man" braces at the bottom of the posts. Will then backfill with excavated soil. The same shall be done with the kicker braces in back. Above the surface and with no impact on the wetlands, will strengthen and reinforce the platforms and bracing within a regulated area at 6175 Main Street.

Mr. Maurer stated a letter was sent to the applicant. The application is not signed by the current owner. The current owner is the town of Trumbull. The Chair and Attorney Marino stated the application is invalid.

7. Application 15-01, Daniel Pizarro - Permit approval to remove fill within a regulated area at 1491 Huntington Turnpike.

Ms. Anna Rycenga was present on behalf of the applicant/owner. This application originated from a Notice of Violation in October 2014. Revised plans dated February 2015 have been submitted. The commission at its last meeting requested the excavator's location and a 10' wide planting buffer. The excavator's location is shown in orange on the plan and the 10' wide planting buffer is easterly at the top of the new slope and is shown in green. The report dated Feb. 16, 2015 was prepared by Petras was previously submitted into the record. (Mr. Daniel Pizarro arrived at the meeting at 7:36 p.m.) The planting plan will consist of 12 native shrubs with at least 4 different species, (Silky Dogwood, Red Elderberry Yearwood Viburnum, Winterberry, and Blueberry). All of the shrubs produce berries and are a natural food source for wildlife, especially birds. There is a CL&P easement in this area, therefore trees are not recommended. The third revision is the seed mix recommendation for the slope stabilization, (New England Erosion Control Restoration mix.). The seed will be applied in conjunction with matting blankets on the slopes in accordance with CT 2002 guidelines. The area will quickly be re-vegetated and the soil surface will be immediately stabilized. In pink on the plan is the temporary stock pile. There will be silt fencing utilized at the perimeter of the stock pile. In accordance with the staff comments and recommendations a bond will be posted to remove the fill and the site work will commence after all necessary approvals from Town departments are received. The completion date must be within 6 months weather permitting. Ms. Rycenga stated they may have to go beyond the 6 months. They will also have to apply to the P&Z Dept. for a special permit. Ms. Rycenga complimented the staff; they have been professional and knowledgeable.

The applicant granted permission for a continuance on Application 15-01. Ms. Rycenga asked that the two site-walks on Huntington Tpke. be on the same day. The application with the proposed addition (150 sf deck) was amended at the last meeting. The commission will need to add that as condition of approval if in fact the commission approves the deck.

Motion (Deecken), seconded (Lauria) to CONTINUE Application 15-01 to the May 2015 meeting.

VOTE: Motion CARRIED unanimously.

8. Application 14-47, John Mandanici, Jr. - Permit approval to relocate the road due to safety and circulation concerns and Town regulations for the for the approved 4-single family residential lot subdivision within a regulated area at 254 Shelton Road. (All houses and driveways outside the regulated area)

Attorney Raymond Rizio was present on behalf of the applicant and indicated this application is to modify an existing permit. They have worked with the Engineering and P&Z Departments. The previous approval was under a rear lot regulation with two driveways on Shelton road and a short cul-de-sac. The permit has been extended by legislation to 2017. This application now has a cul-de-sac off Shelton Road. The Police Commission has approved one straight road with 4 lots. Each lot will be in excess of an acre coming off the cul-de-sac. The properties have moved as far away from the wetlands as possible. A continuous split rail fence will act as visual and physical barrier. It will be 5' from the wetlands and concrete markers to denote the wetlands. There will be no filling or disturbance of the wetlands. The plan shows the 50' and the 100' line from the wetlands. A couple of the homes and some of the associated site-work will be within the regulated area, but nothing will be in the 50' setback. The Diocese of Bridgeport has no issue with the plan. The Town engineers agree this application is an improvement over the previously approved plan. Mr. Maurer indicated the applicant needs to submit a Buffer Planting Plan, including a berm, (upland of the split rail fence) and a Tree Preservation plan. Atty. Rizio asked that the plans be subject to the Town Engineer and the Tree Warden's approval. The road will be 26' wide. The Engineering Dept. prefers a 26' wide road. The applicant agreed the berm would not be placed where it would obstruct the natural flow of the wetlands and to add native shrubs vs. large trees. Atty. Rizio stated the berm is not necessary since there is a buffer plan and a split rail fence. The commission agreed. The center line will be shifted towards the wetlands but outside the regulated area. The 50' Town right-of-way will run from the property line to 50' over. The wood chips have been removed. The new piles are outside the regulated area. Atty. Rizio agreed to a condition of approval that all of the debris will be removed and that no storage of chips or material on site. The commission discussed moving the driveway in order to preserve the 30" Maple tree east of lot #2. The applicant agreed to this as a condition of approval. Atty. Rizio stated the commission can direct them to where they would prefer the stock pile to be placed. The commission indicated the stock pile should be placed 15' to the left in the level area before the road.

The Chair OPENED the Public Hearing at 7:59 p.m.

There was no one present from the public to speak at this meeting.

The Chair CLOSED the meeting at 8:00 p.m.

Commissioner Deecken read the attached April 6, 2015 letter to the Chair from the Town Engineers into the record.

Atty. Rizio stated they would be agreeable to a non-bermed buffer planting plan to be approved by the Tree Warden as a condition of approval.

9. Application 14-48, Booth Hill Road LLC - Permit approval to construct a 4-lot subdivision, including 400' of new roadway, regulated activities include construction of a storm pipe and flared end discharge within a regulated area at Map 16, Parcel 90 Booth Hill Road. (No houses, yards or roadway construction is proposed in the wetlands, watercourse or upland review area.)

Mr. James Swift, Landscape Architect, P.E. was present on behalf of the applicant and explained they are proposing a 4-lot subdivision with open space in the back of the lot. There are no wetlands on the property with the exception of the edge of the property and Bear Den Brook. This is the original plan and has provided a drainage system. The overall drainage system flows to the adjacent to exiting neighbors. The commissioners were concerned that it is very steep to Bear Den Brook. The plan has since been revised to allow for the drainage to flow to Booth Hill Road and then to Bear Den Brook. Each individual lot's driveway and loop areas discharge to an infiltrator system with zero discharge for the 25-year storm event. This has not changed from the original plan. Two surface retention ponds were designed and have no discharge. The natural basins were left in place and will build up a berm around the retention ponds. This is a friendly to Mother Nature plan. A detention basin and a 30" pipe in the ground will be used along with infiltrators as well as a swale. If there is ever any water in the swale it will continue down to Bear Den Brook, this will protect the neighbors. There are two items in the engineer's letter of 2 months ago have been taken care of. Mr. Swift noted the new letter includes two requests that are important to mention. They are as follows:

1. To show more specific grading and the trees that could impact the area be located and;
2. The water quality flow and volume needs to be addressed per the Town Storm Water Management policy. At the last point of their discharge they are proposing to install a water quality vortex chamber. The applicant agreed this could be a condition of approval. The chamber does require maintenance. Mr. Maurer stated the water quality flow and volume is their main concern and Mr. Swift has just addressed that all other items included in the April 6, 2015 are minor. The April 6, 2015 was submitted for the record. Mr. Maurer stated there is a letter on file with this application from Joanne Parson a neighbor who is in support of this application. The applicant will leave it to the commission to consider the suggestions contained in the Parson's letter noting that some of the suggestions are quite extensive. The basins can be called rain gardens and are approximately 3' deep. Test holes have been done and it is known they will take water. Mr. Swift explained to the commission how the catch basin will flow into the 30" pipe and how it will act as a detention system. These details are included on the last sheet of the plan. The swale and detention ponds may periodically have to be cleaned out and would be the homeowners' responsibility. Mr. Swift explained the swale will probably never have any drainage in it is there to be safe. Mr. Maurer stated a maintenance schedule can be a condition of approval. Mr. Swift indicated to the commission there will be no disturbance in the rain garden area. They will be created by natural low areas. They do not need any planting they are natural. Typical seed will be used for the earthen berm. The applicant would prefer not to install a split rail fence. Mr. Maurer stated an access easement would involve filing a map. Atty. Quatrella representing the applicant was present and stated they are in discussions with the Trumbull Land Trust regarding taking the property as open place. Delineating the area will be worked out with the Land Trust. They will keep it in its natural state to protect the watercourse. The Town would only be in the loop if the Land Trust didn't want to. The access easement to open space is not for the

purpose of engineering. There is no intention of this being a park. The legal document/deed has not been created to date because there may be provisions from this commission that would need to be incorporated on the deed before it is conveyed to the Land Trust. Mr. Swift confirmed for the commission that the 30" pipe is dead level and is enough to handle the impervious surfaces. There is a slight increase of flow from the road but does not have engineering significance and will not have an effect on the brook. The man-hole is oversized which acts as a weir structure with specific cuts and shapes to meter the water. The 30" pipe will fill with water, when it gets to a certain point it will spill over the weir. The two rain gardens were designed specifically to have no discharge up to the 25-year storm. It is designed so that if needed the emergency overflow would go the second pond and then the swale. The property is higher than the adjoining residential lots, there will be no seepage due to them having enough width. This has been over designed. The second swale is due to Mr. Swift being extra cautious, the swale is approximately 60-80' away and is a contoured area that will be seeded. There is no rip rap proposed. Ms. Rycenga suggested boulders to demarcate the area. The applicant spoke against the use of boulders.

Motion (Deecken), seconded by (Lauria) to CLOSE Old Business.

VOTE: Motion CARRIED unanimously.

The Chair CLOSED Old Business at 8:36 p.m.

The Chair called a RECESS at 8:37 p.m.

The Chair called the meeting BACK TO ORDER at 8:48 p.m.

#### WORK SESSION:

The Chair OPENED the Work Session at 8:49 p.m.

Application 15-02, Patrick Doran - Permit approval to construct a 24'x18' addition and a 10'x 6' deck within a regulated area at 17 Old Farm Road. Commission cannot act on this application at this meeting. Application will be on the May 2105 meeting.

Application 15-03, Stanley & Zmira Battat-Permit approval to re-establish lawn within a regulated area at 1487 Huntington Turnpike.

By unanimous consent the Commission agreed to conduct a FIELD INSPECTION on Application 15-03.

Application 14-50, Rick Fazio - Permit approval to construct a deck and patio, plant arborvitae along the northern portion of the property and install fencing around the garden area within a regulated area at 110 Daniels Farm Road.

Motion (Deecken), seconded (DeFeo) to approve as submitted.

VOTE: Motion CARRIED 4-3 (AGAINST: Lauria, DeFeo and Chamberlain)

Application 14-51, Lamar Outdoor Advertising - Permit approval to maintain and repair the footings of four (4) existing billboards, will hand dig Lamar Outdoor Advertising 4x6x4 trenches at each base post to install "T" or "dead man" braces at the bottom of the posts. Will then backfill with excavated soil. The same shall be done with the kicker braces in back.

Above the surface and with no impact on the wetlands, will strengthen and reinforce the platforms and bracing within a regulated area at 6175 Main Street.

Motion (Lauria), seconded (Deecken) to DENY WITHOUT PREJUDICE due to the fact that the application is invalid. The application was not signed by the owner of the property.

VOTE: Motion CARRIED unanimously.

Application 15-01, Daniel Pizarro - Permit approval to remove fill within a regulated area at 1491 Huntington Turnpike.

Continued to the May 2015 meeting earlier at this meeting.

Application 14-47, John Mandanici, Jr. - Permit approval to relocate the road due to safety and circulation concerns and Town regulations for the for the approved 4-single family residential lot subdivision within a regulated area at 254 Shelton Road. (All houses and driveways outside the regulated area)

Motion (Deecken), seconded (Chamberlain) to APPROVE as submitted subject to the General Conditions as established by the Commission and the following specific conditions:

1. Placard monumenting the wetlands shall be placed on the split rail fence at a reasonable difference from one another per the direction of the Town Engineer.
2. All review comments contained in the attached Town Engineers' letter dated April 6, 2015 shall be addressed to the satisfaction of the Town Engineer. The buffer plan shall include the planting of native shrubs not trees.
3. Native shrubs shall be planted at grade and there shall not be a berm.
4. A tree preservation plan which shall include the preservation of the 30" Maple tree shall be submitted and approved by the Town Engineer and the Town Tree Warden.
5. The stock pile shown at lot #2 shall be moved to the left and out of the 100' regulated area.

VOTE: Motion CARRIED unanimously.

Application 14-48, Booth Hill Road LLC, Permit approval to construct a 4-lot subdivision, including 400' of new roadway, regulated activities include construction of a storm pipe and flared end discharge within a regulated area at Map 16, Parcel 90 Booth Hill Road. (No houses, yards or roadway construction is proposed in the wetlands, watercourse or upland review area.)

Motion Chamberlain, seconded (Deecken) to APPROVE as submitted subject to the General Conditions as established by the Commission and the following specific conditions:

1. All review comments contained in the attached Town Engineers' letter dated April 6, 2015 shall be addressed to the satisfaction of the Town Engineer.

VOTE: Motion CARRIED unanimously.

MINUTES: Motion (Chamberlain), seconded (Deecken) to ACCEPT the February 3, 2015 meeting minutes as submitted. VOTE: Motion CARRIED unanimously.

SCHEDULE FIELD INSPECTION(S)

By unanimous consent the Inland Wetlands & Watercourses Commission agreed to conduct Field Inspections on the following applications:

1. Application 15-01, Daniel Pizarro - Permit approval to remove fill within a regulated area at 1491 Huntington Turnpike.
2. Application 15-03, Stanley & Zmira Battat-Permit approval to re-establish lawn within a regulated area at 1487 Huntington Turnpike.
3. Application 15-06, Richard Hansen - Permit approval to construct two single-family dwellings and appurtenances, driveway, detention facilities, drainage, utilities, grading and stonewalls within a regulated area at Huntington Turnpike (J07/00001)
4. Application 15-07, Jan and Nancy Nagel - Permit approval to replace the existing house including excavation and fill for proposed patio, construction of a recreation structure with patio and minor grading, installation of a generator and 44 L.F. of recharge galleries and the removal of specific trees with replanting of trees and shrubs per the landscaping plan within a regulated area at 161 Pinewood Trail. Corners of the house and the outbuilding to be staked

By unanimous consent the Inland Wetlands and Watercourses Commission agreed to schedule the Field Inspection on Wednesday, April 20, 2015 at 3:00 p.m.

There being no further business to discuss the Inland Wetlands and Watercourses Commission adjourned by unanimous consent at 9:26 p.m.

Respectfully Submitted,

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Margaret D. Mastroni, Clerk

Frank Smeriglio, PE  
Town Engineer

**TOWN OF TRUMBULL  
CONNECTICUT**

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April 6, 2015

Inland Wetlands and Watercourse Commission  
Richard Girouard, Sr. Chairman

RE: 254 Shelton Road Subdivision

Dear Mr. Girouard,

Based on the revised documents received by the Engineering Department on March 20, 2015, in response to our letter to Alan Shepard, P.E.; dated February 23, 2015, The following items shall be addressed:

1. A buffer planting plan must be submitted.
2. An application to the WPCA must be made to set connection fees to be paid prior to building permit sign off.
3. Final construction plans must be submitted for final review.

Sincerely,

A handwritten signature in black ink, appearing to read "Frank Smeriglio".

Frank M. Smeriglio, PE  
Town Engineer

A handwritten signature in black ink, appearing to read "William Maurer".

William Maurer, PE, LS  
Civil Engineer

Cc: Jamie Bratt Director of Planning and Zoning

Frank Smeriglio, PE  
Town Engineer

**TOWN OF TRUMBULL  
CONNECTICUT**



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April 6, 2015

James Swift, P.E.  
102 Village Road  
Shelton, CT 06484

RE: 607 Booth Hill Road Subdivision

Dear Mr. Swift,

Based on the following documents submitted to the Engineering Department for review on February 17, 2015, as part of an application by Booth Hill Road LLC, for Inland Wetland and Water Course Commission approval:

1. "Record Subdivision Map, Bear Den Estates" of property located at 607 Booth Hill Road, sheet 1 of 5, prepared by Lewis Associates dated 12-22-2014 with the latest revision date of Feb. 16, 2015
2. "Grading and Utility Plan", sheet 2 of 5 prepared by James R. Swift, dated Dec. 22, 2014, with the latest revision date of 02/16/15.
3. "Soil Erosion Control Plan", sheet 3 of 5 prepared by James R. Swift, dated Dec. 22, 2014, with the latest revision date of 02/16/15.
4. "Plan and Profile", sheet 4 of 5 prepared by James R Swift, dated Dec. 22, 2014, with the latest revision date of 02/16/15.
5. "Construction Details", sheet 5 of 5 prepared by James R Swift, dated Dec. 22, 2014, with the latest revision date of 02/16/15.
6. "Storm Drainage Report" for Bear Den Estates, dated December 22, 2014, prepared by James R. Swift, P.E., ASLA. , with the latest revision date of 02/16/15.
7. "Soils and Wetlands Report" prepared for Lewis Associates for the property located at 607 Booth Hill Road by ConnSoil, LLC, report dated 14 October 2014.

8. Inland Wetland and Watercourse Commission Application 14-48 and supporting documentation.

Below in normal font are comments from our review letter dated January 29, 2015, in *italic font* are from your responses from your letter dated February 16, 2015, any responses by Town are **bold font**.

The following Items must be addressed prior to Wetlands approval:

1. Since the project is greater than 5 acres, applicant must apply to the State of Connecticut Department of Energy and Environmental Protection (DEEP) for a General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities". All requirements of the General Permit must be addressed.

*Your response 2-16-1: We will comply with all CT DEEP requirements.*

2. Neither a wetlands report nor environmental assessment has been submitted with this application.  
*Your response 2-16-1: The Soils Scientist report is also attached. As there are no wetland soils or watercourse disturbance proposed, the Storm Drainage Report was thought sufficient for analysis of environmental impact.*

3. If the inlet pipe downstream of the swale clogs with debris, water will flow onto the neighboring property. This must be addressed.

*Your response 2-16-1: This issue has been eliminated by the revised layout.*

**Town Response: There still remains an open channel swale used as an overflow. Applicant must depict grading and existing trees that will be removed.**

4. Depict on the Soil Erosion Control Plan the name and contact information of the party responsible for the implementing and maintaining the Plan.

*Your response 2-16-1: This has been done.*

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5. No provision for stormwater detention or retention from proposed street storm drains have been depicted on the plans or in the drainage report. Simply analyzing the overall basin is not acceptable.

*Your response 2-16-1: This issue has been eliminated by the revised layout.*

6. The drainage report does not address Water Quality Volume (WQV) and /or Water Quality Flow (WQF). Provide backup calculations for WQV and WQF.

*Your response 2-16-1: The WQV and WQF is recognized by DEEP as the first inch of rainfall. For lot development, those quantities are retained, with no discharge, either in gullies or retention areas. For the roadway pavement, catch basin sumps were revised to a 4 foot depth to increase sediment capacity.*

**Town Response: The volume provided by 4 foot sumps may not be sufficient, to meet the recommended requirements of the 2004 Stormwater Quality Manual. WQV/WQF must be addressed.**

7. The drainage easement to the Town of Trumbull is too steep to access for maintenance. Provide an easement that is no steeper than 4:1.

*Your response 2-16-1: The slope in question is no longer necessary for town access. As it functions as access to the open space, the slope was revised to 4: 1 as requested.*

8. All outfalls to Bear Den Brook to have riprap plunge pools to dissipate the energy and prevent scouring and erosion to Bear Den Brook.

*Your response 2-16-1: This issue has been eliminated by the revised layout.*

9. Depict temporary settling basins, stockpile locations, concrete washout locations and phasing plans.

*Your response 2-16-1: This has been done.*

**Town Response: An addition temporary settling basin shall be added close to Booth Hill Road to capture runoff while constructing the road. Provide additional information regarding the temporary basins, volume provided, inflows and outflows.**

10. The manhole drops are too excessive. Provide details for all manhole drops.

*Your response 2-16-1: This issue has been eliminated by the revised layout.*

11. Provide emergency outlets from all stormwater galleries, provide backup data showing that the outlet can pass 100 yr. event.

*Your response 2-16-1: This has been done.*

12. Gallery storage volumes are not correct, only the net volume and 40% of the stone volume may be considered.

Your response 2-16-1: *The net volume of the galleries has been revised from 16 cf/ft to 12.25 cf/ft, reflecting the ribs and wall thickness. The stone net volume is calculated at 40%.*

13. Depict the line of “Time of Concentration” (TC) for all watersheds; provide backup calculations for all TC’s.

Your response 2-16-1: *The Tc lines have been shown. The Tc calculations used is the SCS Lag method. Data sheets on how the software I used calculates it are attached. For watersheds were the SCS Lag results in less than 5 minutes, 5 minutes is used, as Tc less than that should not be accepted as practical.*

14. Clearly label all watershed and subareas.

Your response 2-16-1: *This has been done.*

15. It appears that the infiltration rate is too high. Engineer must provide additional evaluation and back-up support. All infiltration testing for the proposed galleries must be conducted in the layer of soil below the galleries; there is no reference to the depth/elevation of the percolation test. State the depth/elevation for all of the percolation tests.

Your response 2-16-1: *The infiltration rate has been revised as 50% of the actual tested rate. The field rates were obtained in the soils at the bottom of the galleries. Depth of percolation tests have been added to the plan.*

16. Depict pipe sizes, storm and sanitary structure inverts and top of frame elevations on Grading and Utility Plan.

Your response 2-16-1: *This has been done.*

17. All footing drains and or stormwater gallery overflows that connect to proposed Town drainage in the right of way must be connected at a manhole; a hold harmless agreement for each lot must be filed on the Town of Trumbull’s Land Records, the agreement must run with the land.

Your response 2-16-1: *This has been done.*

**Town Response: Overflows have been depicted into manholes in the Town Right of Way, a hold harmless agreement will be required prior to CO Sign off. This must be completed prior to roadway acceptance.**

18. Galleries on Lot 3 buck the grades, please address. Top of units are above the proposed grade.

Your response 2-16-1: *The elevation of the bottom of the galleries has been corrected, and the orientation revised.*

19. Grading on Lot 2 is incorrect, please correct.

*Your response 2-16-1: This has been done.*

**Town Response: Please revise the incorrect proposed contour interval 260 to read the 270.**

20. Provide a tree preservation plan.

*Your response 2-16-1: This has been done.*

21. Provide a street tree planting plan.

*Your response 2-16-1: This has been done.*

22. A site monitor shall be required to inspect all soil erosion controls after every rain event and or at least once a week.

*Your response 2-16-1: Noted*

23. A Bond is required for all soil erosion and siltation controls

*Your response 2-16-1: Noted*

**The following items are new comments on the plans submitted.**

24. The footing drain for Lot 4 is piped to a drywell, depicted on 3 of 5. On sheet 2 of 5 the same drywell is depicted as to be removed. Please clarify.
25. The proposed weir at the outlet control structure is too constrictive and will be subject to clogging. Also there is no provision for a bypass
26. There are conflicting inverts for the 30" RCP pipe as depicted on sheet 2 of 5 and sheet 4 of 5.
27. Depict the side slope of the proposed open channel. There must be a minimum slope to drain water. Cross slope must be similar in report.
28. The detail of the galleries shows the height as 4' the drainage report states the height as 4.25'. Please clarify.
29. Note on the plans; "Proposed building foot prints and driveway are preliminary. Construction documents will depict the final proposed building and driveway configuration for each lot. A building plan, site plan and Stormwater Report are required for each lot and must be submitted prior to Building permit sign off for our approval"
30. Please provide a digital copy of the Storm Drainage Report for our records.

No response has been offered to the following comments in letter dated 2-16-16.

The following items must be addressed prior to Planning and Zoning approval:

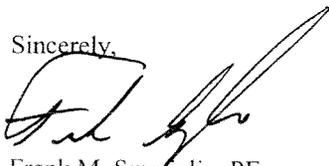
1. To whom will the open space parcel be deeded?
2. Prior to any sign off for building permits an address map must be prepared and submitted to the engineering department.
3. All manholes and catch basins to be identified by a number or a letter
4. The catch basin sta. 1+31 15.3 rt. should not pipe to manhole 2+95.4 2.0 lt.
5. All drainage pipes in the Town right of way must be RCP with gaskets.
6. All catch basin tops to have galvanized grates and frames refer to the Town of Trumbull Engineering Standard Details.
7. Bituminous lip curbing to be installed on binder course.
8. Depict a driveway entrance details.
9. All roadway work, sanitary and drainage work shall be inspected by an independent Engineer under the supervision of a Professional Engineer (not the design engineer), all material testing and compaction testing results shall be signed by the inspecting engineer.
10. After completing the road base and prior to paving, all sanitary and storm drainage must be video and submitted to the Town Engineer for review.
11. Depict sanitary sewer chimney details, and sanitary and stormwater manhole drop details.
12. Sanitary sewer mains and laterals must be pressure tested, and video prior to acceptance. All final construction plans and specs shall be submitted for review.
13. All road construction must comply with the State of Connecticut Department of Transportation Standard Specification for Roads, Bridges and Incidental Construction form 816 and/or Town of Trumbull Standards.
14. All property line corners must be monument with acceptable markers prior to CO Signoff. All center line iron pins must be set prior to acceptance of the road.
15. A street opening permit must be obtained for any work in the Towns right of way.
16. All water mains and hydrant locations must be approved by the Fire Marshall.
17. As-built plans and certification letter by the design engineer for each lot development must be submitted prior to CO Signoff.
18. All catch basins and yard drains to have 24" sumps (minimum) and metal bell traps.
19. All street trees are to be planted on private property not on the proposed Town right of way. A planting plan must be submitted and approved by the Town Tree Warden.
20. Crushed stone to be place beneath all proposed sundecks. If concrete or other impervious surface is proposed beneath the sundeck this area must be included in the stormwater runoff calculations.

21. A site plan and drainage report showing compliance to the Stormwater Regulation for each lot must be submitted prior to building permit signoff.
22. All storm drainage and footing drains tie-in to the Towns drainage system will require a waiver to be signed by the property owner.
23. As built plans, profiles and certification letter by the design engineer must be submitted for roadway, sanitary sewer and storm sewers prior to road acceptance.
24. Drainage reports must be submitted showing compliance with the Town of Trumbull's "Stormwater Management and Design Standards" for each of the proposed residences.
25. Engineer to depict footing drainage discharge location for Town's review.
26. All catch basins must have 2 foot sumps and metal bell trap.
27. All utility trenching in the town right of way must meet the Town Standards. Depict gas service connection / and all utilities and restoration limits for Town's review.
28. All work in the Town of Trumbull's right of way will need to have a street opening permit.
29. An application to the WPCA must be made to set connection fees to be paid prior building permit sign off.
30. A site bond estimate acceptable to the Town Engineer must be provided prior to any site disturbance.
31. Prior to the issuance of Certificate of Occupancy, an as-built plan and certification letter in accordance with Trumbull's drainage manual shall be submitted.

**Based on the amount of items required to be modified as listed above, these comments shall be considered preliminary. There may also be further comments based on the response of the above mentioned items.**

**Please note; these plans are considered preliminary. Final construction plans for the site and roadway shall be submitted for engineering review and approval. If you have any questions or concerns please contact me.**

Sincerely,



Frank M. Smeriglio, PE  
Town Engineer



William Maurer, PE, LS  
Civil Engineer

Cc: Jamie Bratt Director of Planning and Zoning  
Inland Wetland and Watercourse Commission