

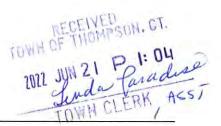


INLAND WETLANDS COMMISSION TUESDAY, July 12, 2022 ZOOM Meeting

- A) Call to Order & Roll Call
- B) Appointment of Alternates

Agenda Item C.a. Action on Minutes of Previous Meeting Minutes of June 14, 2022





MEETING MINUTES: Tuesday, June 14th, 2022 7:00PM

Hybrid meeting via ZOOM Online Meeting Portal and in-person at Merrill Seney Community Room, Thompson Town Hall, 815 Riverside Drive, North Grosvenordale, CT

- A) The meeting was Called to Order at 7:00 PM by Chairman George O'Neil, who announced the protocols for conducting the online meeting.
 - Members and staff present: George O'Neil (Chairman) Charlie Obert (Vice Chairman), Diane Chapin (Treasurer), Francesca Morano (Commissioner), Marla Butts (Wetlands Agent), Dan Malo (Recording Secretary), Bryce Pratt (IT), and Amy St.Onge (First Selectman)
 - Members of the public: Valerie Clark, Gary Kettle, Mark Simon, Daniel Blanchette, Sean Copeland, WINY, and others.
- B) Appointment of Alternates n/a
- C) Minutes of Previous Meetings -
 - (a) The March 8, 2022 Meeting Minutes were accepted with correction of the Recording URL:

 The Meeting Recording can be seen at the link below, with the Access Passcode: xXiL1?VE https://us02web.zoom.us/rec/share/JH-fdmdu8LyYaEwUR0UbZKtrrQzW3Q0MfWm0uF1ZQyK2j CPNGSxYnfKzkb Dcpl.zo1CykrLA4VfCF1j
 - (b) A meeting quorum was not achieved at the June 11, 2022 sitewalk. No minutes were taken.
- D) Citizens Comments on Agenda Items none
- E) Applications
 - a) Old Applications
 - WAA22009, Thomas Dolan, Jr., O New Rd (Assessor's map 154, block 5, lot 10A), new single-family home in 100-foot upland review area, received 4/19/22, issued 5/23/22, legal notice published 6/10/22, end of appeal period 6/25/22. No action required by the Commission.
 - 2. IWA22010, Mark Simon, O Sand Dam Rd (Assessor's map 133, block 24, lot 63), fill wetlands for driveway crossing & new home, septic and well mostly in 100-foot upland review area, stamped received 5/3/22, statutorily received 5/10/22. Septic design has been finalized. The applicant proposes a driveway crossing over an intermittent stream. Fruit trees and fixed solar panels are being considered in a clearing along Babula Road. George O'Neil asked what type of solar system and battery system would be installed. Mark Simon stated that he is still in the consultation phase. Marla Butts asked about the construction sequence for the crossing, to which Daniel Blanchette of J&D Civil Engineers stated that work will be performed during low flow and according to the erosion and sediment control plan on Sheet #3.

Marla Butts and George O'Neil presented some of the site characteristics that they witnessed on June 11, 2022. Marla asked if a response was received regarding the National Diversity Database. Daniel Blanchette stated that he has not yet received a response, however the construction is outside of the hash-marked area depicted on the map. No work is proposed in the critical habitat. Marla asked why two culverts were chosen for the driveway crossing. Daniel Blanchette stated that there is no well-defined channel, and two culverts will hope to follow the natural hydraulics as much as possible. Fran Morano asked how the power supplied by the solar panels would reach the house. Daniel Blanchette said that a conduit would be installed under the driveway. A motion to approve the application was made by Diane Chapin and seconded by Charlie Obert. **The motion was APPROVED 4-0.**

3. **IWA22011**, D.H. Copeland Builder, Inc, 119 New Road (Assessor's map 154, block 3, lot 2I), 10-foot extension of 15" culvert under existing driveway to widen driveway by 6', electronically received 5/5/22, statutorily received 5/10/22. Driveway initially authorized by **WAA21016**. Marla Butts stated she observed water from adjacent lot 117 flowing through the ditch-line at the New Road culvert, though the flow has subsided. Marla noted that such runoff should not be occurring and she has discussed this with both property owners. Marla will monitor flow throughout the seasons. She has no concern regarding the expansion of the driveway. An additional driveway permit will be required. A motion to approve the application was made by Charlie Obert and seconded by Diane Chapin. **The motion was APPROVED 4-0**.

b) New Applications

- 1. WAA22012, Marc & Lori Addington, 76 Lehtinen Rd (Assessor's map 137, block 21, lot 17A), construction of a 32' X 24' detached garage with driveway access located within the 100-foot upland review area, stamped received 5/9/22, issued 5/23/2022, legal notice published 6/10/22, end of appeal period 6/25/22. No action required by the Commission.
- 2. WAA22013, Hany Youssef, 274 Riverside Dr (Assessor's map 87, block 95, lot 39), construct commercial building on existing foundation for non-medical cannabis facility, stamped received 5/23/22, under review. The applicant intends to use existing foundation on site. It is unclear if the foundation is adequate to be built upon. An engineer's certification would be required to determine if the foundation suitable; if not, additional earthmoving might be required which would make the project a significant activity requiring a wetlands permit.
- 3. **WAA22015**, Greg & Anna Kuznecki, O Richard Bennett Lane (Assessor's map 137, block 7, lot 5L), construct septic system and discharge foundation drain in 100-foot upland review area, stamped received 6/6/22, under review pending receipt of NDDH design approval.
- 4. **DEC22016**, Gary Kettle, 149 Wilsonville Rd (Assessor's map 77, block 47, lot 1), request to install tiles in a 10x10 area in wetlands for irrigating plants at the Wilsonville Herb Farm store, stamped received 6/6/22. A motion to approve the application as a use permitted as a right was made by Charlie Obert and seconded by Diane Chapin. **The motion was APPROVED 4-0**
- F) Applications Received After Agenda was Published None
- G) Permit Extensions / Changes None

H) Violations & Pending Enforcement Actions

- a) Notice of Violation VIOL21023, Jamie Piette, 0 & 73 Center Street (Assessor's map16, block X, lots H & 2), unauthorized construction of retaining wall and associated backfill in or near Little Pond, issued 8/24/21. Marla recommended that a plan provided by Killingly Engineering Associates be considered the 'as-built' and filed on the Town land records. Marla will contact the property owner instructing them to file the as-built.
- b) Notice of Permit Violation VIOL21036, Permit IWA20022, Marc Baer, 1227 Thompson Rd (Assessor's map 116, block 24, lot 10), grades not as authorized in modified plan approved by the Commission on February 9, 2021. Marla Butts was informed by Daniel Blanchette of J&D Civil Engineers that he had not yet received notification from Marc Baer to proceed with plan changes. Marla and Dan Malo inspected the site on 6/8/22. Construction has halted.
- c) Notice of Violation VIOL22008, Rodney Lamay, O Quaddick Town Farm Road (Assessor's map 160, block 11, lot 15), unauthorized clearing, cutting & grading in wetlands, issued by Acting Wetland Agent Dan Malo on 3/21/2022. Maria and Dan inspected the site 6/8/22. No work has occurred since the issuance of the Notice of Violation. Maria will close the file.
- d) Notice of Violation VIOL22014, Jason Chin & Dannielle Lohler, 150 Wilsonville Rd (Assessor's map 77, block 46, lot 29), construction of detached garage in 100-foot upland review area, violation issued 6/6/2022. Two garages were built in uplands prior to the issuance of permits. Marla will be working with the Zoning Officer and Building Department to address.

I) Other Business

- a) Draft Subdivision Regulations Marla Butts recommended in writing to the Planning & Zoning Commission to re-adopt 'net buildable area'. Inland Wetlands Commissioners agreed that Marla should present her concerns in person to Planning & Zoning. Charlie Obert said that the draft regulations should be reviewed by the Town Attorney and Select-board.
- A motion to modify the agenda to include public comment after 'Other Business' was made by George O'Neil and seconded by Charlie Obert. The motion was unanimously APPROVED.

J) Public Comment Period

Valerie Clark thanked the Wetlands Commission and Marla Butts for diligence in reviewing the revisions to the Subdivision Regulations. She hopes that the Planning & Zoning Commission incorporates Marla's comments before the process moves forward.

K) Reports

- a) Budget & Expenditures Diane Chapin reported \$3,149.22 available in the budget. 88.1% of the budget has been expended. \$40 were encumbered in the prior month for legal notices. The Wetlands budget for 2022-2023 has been approved by the Board of Finance at \$27,424. Marla noted that her salary line will be exceeded before the end of the current fiscal year.
- b) Wetlands Agent Report Marla Butts noted that no progress has been made on MS4, records retention, or Inland Wetlands Regulation updates. She noted that the focus of Wetlands Regulation updates will be on 'Conceptual Subdivisions' and the fee structure.

L) Correspondence

- a) Connecticut Wildlife Magazine March/April 2022 Edition
- b) Copy of DEEP Permit Application for the Use of Pesticides in State Waters (for Quinebaug Park Pond 111 Old Turnpike, Rte 197)

- Copy of DEEP Permit Application for the Use of Pesticides in State Waters (for Vincent Pond - 0 Lambert Rd)
- d) Notification of public review and comment period for DEEP's proposed 2022 Integrated Water Quality Report to Congress from June 6th to July 6th.
- M) Signing of Mylars none
- N) Comments by Commissioners -

Diane Chapin echoed Valerie Clarks comments regarding the revisions to the Subdivision Regulations. Charlie Obert thanked Marla Butts for the quality of her analysis of the revisions. He asked if an outside consultant could be brought in to work on the MS4 updates. Marla stated that the lack of a Public Works Director hinders the inter-departmental process.

George O'Neil thanked the Commissioners and staff for their time and efforts.

O) At 8:30 PM, after completion of the agenda, Charlie Obert made a motion to adjourn the meeting. The motion was seconded by Diane Chapin. **The motion was unanimously APPROVED.**

To see/hear the entire meeting via ZOOM, copy and paste the following link into your search bar: https://us02web.zoom.us/rec/share/qHcLs2GUDqMHG5IqnOsTVY9FkgMApRHIiQwovKD4DBj1ceH9RotHqzwwCCO8mTFt.ktLZPYnq0HuPdJ04

Access Passcode: mpp?7KTC

Respectfully submitted, Dan Malo, Recording Secretary



Agenda Item D. Citizens Comments on Agenda Items

Agenda Item E.a) 1. Old Applications

WAA22013, Hany Youssef, 274 Riverside Dr (Assessor's map 87, block 95, lot 39), construct commercial building on existing foundation for non-medical cannabis facility, stamped received 5/23/22, issued 6/27/22, legal notice published 7/8/22, end of appeal period 7/23/22.



TOWN OF THOMPSON Inland Wetlands Commission

815 Riverside Drive
P.O. Box 899
North Grosvenordale, CT 06255
Phone: 860-923-1852, Ext. 1
Email: wetlands@thompsonct.org
Web: https://www.thompsonct.org/

WETLAND AGENT APPROVAL WAA22013

APPROVAL GRANTED TO:

Hany Youssef 292 Riverside Drive North Grosvenordale Ct 06255 **DATE OF APPROVAL:** June 27, 2022 **EXPIRATION DATE:** June 27, 2027

LOCATION OF AUTHORIZED ACTIVITY: 274 Riverside Drive, Assessor's Map 87, Block 95, Lot 39

DESCRIPTION OF AUTHORIZED ACTIVITY: To conduct regulated activities associated with construction of a commercial building on an existing foundation for non-medical cannabis facility as shown in Wetlands Agent Approval Application WAA22013 stamped received by the Thompson Wetlands Office May 23, 2022 and as shown in drawing(s) stamped received May 23, 2022.

This approval is issued pursuant to section 11(b) of the Inland Wetlands and Watercourses Regulations of the Town of Thompson.

APPROVAL CONDITIONS:

- 1. No earthmoving work is authorized herein except for the minor repairs to the foundation identified in the June 24, 2022 Foundation Inspection Report signed and sealed by Normand Thibeault, Jr. P.E, copy attached and made part of this approval.
- 2. If the authorized activity also involves an activity or a project which requires zoning or subdivision approval, special permit, variance, or special exception, then no work pursuant to this approval may begin until such other approval is obtained. (See section 11.10.c. of the Inland Wetlands and Watercourses Regulations of the Town of Thompson)
- 3. This approval will be valid for five (5) years. You are expected to notify the Wetland Agent of your starting date and to complete your activities within <u>2 years</u> of beginning your site work. If you expect to take longer, you must contact the Wetland Agent for an extension.
- 4. The Thompson Wetland Agent/Inland Wetlands Commission must be notified in writing one week prior to the beginning of any regulated activities. Please use the enclosed card.
- Appropriate erosion and sediment controls shall be installed prior to the beginning of any regulated activities. Until all disturbed soils are stabilized appropriate erosion and sediment controls shall be used and maintained. (See document entitled "2002 Connecticut Guidelines for Soil Erosion and Sediment Controls" for guidance.)
- 6. If there are any changes in the location of any of the proposed activities for which this approval has been granted, then the new proposal must be presented to Thompson Wetland Agent/ Inland Wetlands Commission for approval of such changes prior to commencing activities.

Wetland Agent: Marla Butts

Dated: June 27, 2022

Killingly Engineering Associates Civil Engineering & Surveying

P.O. Box 421 Dayville, CT 06241 Phone: 860-779-3703 Fax: 860-774-3703

June 24, 2022

Mr. Hany Youssef 64 Messier Road North Grosvenordale, CT 06255

Re:

274 Riverside Drive Foundation Inspection

Dear Mr. Youssef;

Per your request, Killingly Engineering Associates (KEA) inspected an existing foundation at the referenced property on June 23, 2022 evaluate the integrity and usability which has been questioned due to a fire that destroyed the former building. In general, fire damage to concrete is uncommon unless there is an extended extended exposure to heat. In these situations, damage is typically indicated by cracking, spalling of the concrete surface, or deformation of the concrete mass. It is our understanding that you would like to utilize the existing foundation to construct a new 2-story building. Killingly Engineering Associates (KEA) inspected the exposed portion of the foundation (approximately 8" above grade) as well as the existing concrete slab on the foundation interior.

Slab

The slab was inspected for evidence of excessive settlement which is typically indicated by the presence of cracking larger than 1/8" which is considered "hairline". KEA did note cracking in the concrete slab as seen in photo 1 below.





Received

JUN 2 7 2022

Thompson Wetlands Office

Hairline cracking is common in concrete slabs and can be the result of quick curing of the concrete, improper compaction of the soil beneath the slab or excessive loading. In general, any cracking of 1/8" or less (the width of a pencil lead) is not a concern. KEA inspected the edges of the cracks and found them to be worn, indication that they have been in existence for an extended period of time. We also noted that there was no differential settlement where edge of the crack was higher than the other.

Foundation Wall

The entire perimeter to the foundation wall was inspected for cracking, spalling and deformation. The width of the wall is 10" which is sufficient to support a 2-story structure. In several areas where the wall is damaged, we noted that there does not appear to be any rebar. This is not unusual as the current minimum requirements for rebar in foundations was only adopted in the 2012 IBC and 2015 in the Connecticut State Building Code; it does not affect the integrity or usability of the foundation.

In general, the foundation is in good condition. The inspection did not note any spalling (flaking/surface damage), deformation or significant cracks other than in several areas where anchor bolts have been damaged, presumably from when the building was demolished after the fire. Photo 2 below shows one of the typical bent anchor bolts and the associated cracking.



Photo 2: Bent Anchor Bolt & Foundation Cracking

These anchor bolts should be removed by cutting them flush to the foundation wall surface and the cracks should be filled with an epoxy filler. I would recommend filling using an epoxy injection product such as Simpson Crack-Pak®, SealBoss® Epoxy concrete repair or an approved equal. These epoxy products are structurally stronger than the concrete itself and typically have compressive strengths up to 10,000 psi. I would not recommend polyurethane foam repair kits as they do not provide any structural support and are

useful for waterproofing only. This product could also be utilized for some cracks observed in the wall that are not associated with anchor bolts as shown in photo 3.



Photo 3: Enlarged view of Foundation Wall Crack

There are 3 or 4 areas on the exposed concrete wall that should be replaced entirely. These sections are 24" to 48" long and we would recommend saw cutting at the limits of the damage, removing the wall between the saw cuts, and pouring a new section of the wall. The saw cut surfaces should be properly cleaned and a concrete bonding adhesive should be applied to the exposed surfaces prior to pouring the new wall to facilitate proper bonding between surfaces. These products include "Drylock", "Weld-Crete" and "SikaLatex" but any bonding agent can be utilized. In addition, we would recommend drilling 3/4" holes 12" on center into the existing foundation at the saw cut interface to a depth of 12" and installing #5 rebar anchored with hydraulic cement. The rebar should be a total length of 24" long horizontally to allow for a 12" anchor into the new concrete wall and at least 6" vertically into the bottom of the cut. A detail for this repair procedure is attached herein. Photo 4 shows one of the typical areas recommended for repair.



Photo 4: Portion of Foundation wall to be Replaced

Conclusions & Recommendations

Except for the specific areas discussed in this report, the foundation in good condition and can be used for construction of a new structure. Minor cracking observed along the walls in several areas do not pose a threat to the structural integrity of the foundation and are likely the result of typical minor settlement within the subgrade or possibly the result of impact from machinery when the fire-damaged building was being demolished. We do not feel that the fire that occurred substantially in the second story of the structure has diminished the usability or the integrity of the foundation. When constructing walls on the foundation, new 5/8" anchor bolts should be drilled and epoxied at 48" intervals, 12" from corners, and a sill plate gasket installed prior to securing the sill plates. The concrete slab is also in reasonable condition and exhibits only hairline cracking. This does not detrimentally impact the integrity of the slab.

With the recommended repairs and modifications, it is my professional opinion that the foundation and slab can be utilized and does not require complete replacement.

Please feel free to contact me if there are any further questions or concerns.

Sincerely;

Normand Thibeault, Jr., P.E.

Partner

APPLY CONCRETE BONDING ADHESIVE
AT SAUCUT SURFACE

SE REBAR - 12" LONG, 12" O.C.
ANCHORED VERTICALLY WITH
HYDRAULIC CEMENT INTO WALL

NEW CONCRETE WALL

PORTION OF WALL TO BE REPLACED

TO REBAR - 24" LONG, 12" O.C. HORIZONTALLY
ANCHORED WITH HYDRAULIC CEMENT

WALL REPAIR DETAIL

NOT TO SOME



Killingly Engineering Associates

Civil Engineering & Surveying

114 Westcott Road P.O. Box 421 Dayville, Connecticut 06241 (860) 779-7299 - FAX: (860) 774-3703 FOUNDATION REPAIR DETAIL PREPARED FOR

HANY YOUSSEF

274 RIVERSIDE DRIVE THOMPSON, CONNECTICUT

DATE: 06/23/2022

SHEET NO.: 1 OF 1

SCALE: NTS

JOB NO.: 22085

Agenda Item E.a) 2. Old Applications

WAA22015, Greg & Anna Kuznecki, 0 Richard Bennett Lane (Assessor's map 137, block 7, lot 5L), construct septic system and discharge foundation drain in 100-foot upland review area, stamped received 6/6/22, issued 6/28/22, legal notice published 7/8/22, end of appeal period 7/23/22.



TOWN OF THOMPSON Inland Wetlands Commission

815 Riverside Drive P.O. Box 899 North Grosvenordale, CT 06255 Phone: 860-923-1852, Ext. 1

Email: wetlands@thompsonct.org Web: https://www.thompsonct.org/

WETLAND AGENT APPROVAL WAA22015

APPROVAL GRANTED TO: Greg and Anna Kuznecki 14 Indian Inn Road Thompson CT 06277 **DATE OF APPROVAL:** June 28, 2022 **EXPIRATION DATE:** June 28, 2027

LOCATION OF AUTHORIZED ACTIVITY: 13 Richard Bennett Land, Assessor's Map 137, Block 7, Lot 5L

DESCRIPTION OF AUTHORIZED ACTIVITY: To conduct regulated activities associated with construction of septic system and foundation drain in the 100-foot upland review area for new single family home as shown in Wetlands Agent Approval Application WAA22015 stamped received by the Thompson Wetlands Office June 6, 2022 and as shown in drawing(s) entitled "Site Development Plan Prepared for Anna and Greg Kuznecki Map 154 Block 7 Lot 5L Richard Bennett Way - Thompson, CT." prepared by J&D Civil Engineers dated Aug. 12, 2005 revised 2022-06-07 (1 sheet) stamped received June 14, 2022.

This approval is issued pursuant to section 11(b) of the Inland Wetlands and Watercourses Regulations of the Town of Thompson.

APPROVAL CONDITIONS:

- A notice of decision will be requested to be published in the Thompson Villager. Note this approval is subject to appeal to the Inland Wetlands Commission for 15 days from the date of publication for a final decision.
- 2. If the authorized activity also involves an activity or a project which requires zoning or subdivision approval, special permit, variance, or special exception, then no work pursuant to this approval may begin until such other approval is obtained. (See section 11.10.c. of the Inland Wetlands and Watercourses Regulations of the Town of Thompson)
- 3. This approval will be valid for five (5) years. You are expected to notify the Wetland Agent of your starting date and to complete your activities within 2 years of beginning your site work. If you expect to take longer, you must contact the Wetland Agent for an extension.
- 4. The Thompson Wetland Agent/Inland Wetlands Commission must be notified in writing one week prior to the beginning of any regulated activities. Please use the enclosed card.
- Appropriate erosion and sediment controls shall be installed prior to the beginning of any regulated activities. Until all disturbed soils are stabilized appropriate erosion and sediment controls shall be used and maintained. (See document entitled "2002 Connecticut Guidelines for Soil Erosion and Sediment Controls" for guidance.)
- 6. If there are any changes in the location of any of the proposed activities for which this approval has been granted, then the new proposal must be presented to Thompson Wetland Agent/ Inland Wetlands Commission for approval of such changes prior to commencing activities.

	M A Band		
Wetland Agent:	Marley 2.16	Dated: June 28,2022	
	Maria Butts		

Agenda Item E.b) 1. New Applications

WAA22017, Emily Kreidler, 31 Becola Rd (Assessor's map116, block 24, lot 25), demolish existing home, reconstruct new home in same location with new well within the 100-foot upland review area for Little Pond, stamped received 6/15/22, under review.



For Wetland Agent: rev 01/11

APPLICATION #WAA 22017

DATE RECEIVED 50022

Application for Wetland Agent Approval to conduct a regulated activity

Town of Thompson

INLAND WETLANDS COMMISSION 815 RIVERSIDE DRIVE NORTH GROSVENORDALE, CT 06255 TOWN OF THOMPSON, 6

Instructions:

Two (2) copies of the completed application and two (2) copies of all the additional attached documents (site plan, etc.) must be submitted to the Agent.

The applicant is advised to read Sections 7 and 8 of the Regulations for further information regarding application requirements and procedures. THE APPLICANT IS FURTHER ADVISED THAT A BUFFER (SETBACK) OF 100 FEET FROM AN INLAND WETLAND OR WATERCOURSE IS REQUIRED, AND A BUFFER/SETBACK OF 200 FEET FROM THE TEN (10) ESPECIALLY NOTEWORTHY WETLANDS AND WATERCOURSES IDENTIFIED IN THE TOWN OF THOMPSON INLAND WETLAND INVENTORY PREPARED BY NORTHEASTERN CONNECTICUT REGIONAL PLANNING AGENCY 1980 PAGES 9, 14 AND 15 IS REQUIRED. See Section 6 of the Regulations for further information regarding regulated activities.

Please provide the following information:

- Directions to the property from the Thompson Town Hall
- Location of Utility Pole nearest your property
 *Pole Number *Location of property in reference to Pole

NO APPROVAL SHALL BE TRANSFERRED WITHOUT PERMISSION OF THE AGENCY.

FEE SCHEDULE:

(Additional \$60.00 fee to State as per Public Act 09-03, Section 396)

Individual Lot \$50 + \$60
(Includes Mandatory Legal Advertisements Fee of \$20)

If the Agent finds that greater than a minimal impact may occur to wetlands, then this proposal must undergo a full permit application. Fee will be applied to the permit application.

Please complete the following application information.

If you need assistance contact the Wetland Agent (office 860- 923-1852)

Fax 860-923-9897

www.thompsonct.org/wetlands

Da	te June 10, 2022	
1)	Name of Applicant_	Emily Kreidler
	Home Address 29	Stephen Drive, Webster MA 01570
	Home Tele & Hrs	Business Tele & Hrs
	Business Address	n/a
2)	Applicant's interest in INLAND WETLAND	n the Property:OwnerOther Emily is owner's grand daughter S APPROVALS CAN BE GRANTED TO PROPERTY OWNER ONLY.
3)	Name of Property O	wner (if not applicant)James and Barbara D'Alessandro
	Home Address 9 B	eacon Road, Webster MA 01570
	4.	n/a
	Home Tele & Hrs	Business Tele & Hrs
4) Geographical Location of the Property (site plan to include utility pole number nearest property or oth identifying landmarks) Pole # and Location CL&P 112 Street or Road Location east side of Becola Road		s)
	Tax Assessors	Map #_ 116
		Block #24
		Lot # that appears on site plan 25
	Deed information :	Volume #_ 726 Page #_ 175
		age #
5) The property to be affected by the proposed activity contains:		ffected by the proposed activity contains:
	Soil Types Hinckley	Loamy Sand, some Sudbury Sandy Loam
	Wetland Soils X	(Swamp Marsh Bog Vernal Pool)
	Watercourses	(Lake or Pond/_ Stream or RiverIntermittent Stream)
	Floodplain Yes	<u>10</u>
6)	Description of the A	ctivity for which Approval is requested
	The applicant is pro	posing to demolish the existing home, and construct a new home in the same location. A new well
	will be drilled as well.	All construction will occur in the Upland Review Area, however no work is proposed along the shore

7) Submit a Site Plan, drawn to scale, with the certification of the preparing Surveyor and/or Engineer including:
 1-Locus map at approx. 1" = 1000' 2-Location of property, with boundaries defined and utility pole # near property and any other identifying landmarks. 3-Location of wetlands and /or watercourses. A wetland delineation in the field must be marked with numbered wetlands flags by a certified soil scientist and located on the map/site plan. Site plan shall bear the soil scientist's original signature. 4-Soil types on the property. 5-Flood Hazard area classification and delineation. 6-(a)Location of the proposed activity (i.e. house, septic, well or other areas to be disturbed). (b)Location of perc tests and soil test holes. (c)Copy of NDDH approval to construct or repair subsurface sewage disposal system.
 ✓ 7-Nature and volume of the material to be placed, removed, or transferred. ✓ 8-Topographical contours, proposed and existing. ✓ 9-Location and supporting data for proposed drainage. ✓ 10-Date, scale (recommend 1"=40") and North arrow. ✓ 11-Proposed limits of clearing/disturbance and location of stockpiles during construction. ✓ 12-Location of proposed Erosion and Sedimentation controls and other management practices and mitigation measures which may be considered as a condition of issuing a permit for the proposed regulated activity. The erosion and sedimentation control provisions on the site plan must comply with the most current CT DEP edition of the Connecticut Guidelines for Soil Erosion and Sedimentation Control and be so noted on the plans. ✓ 13 -Location of proposed Stormwater treatment design on the site plan must comply with the most current CT DEP edition of the Connecticut Stormwater Quality Manual and be so noted on the plans. It is strongly recommended that low impact development techniques, stormwater management techniques that are designed to approximate the pre-development site hydrology, be utilized in the stormwater system design wherever practical and possible.
 14-Location of proposed mitigation or wetland enhancement measures which may be considered as a condition of issuing a permit for the proposed regulated activity. 15-Timing and description of phases of activities, installation of sediment and stormwater control measures and temporary and permanent stabilization methods.
The Wetland Agent will notify you if any additional information is needed in order to properly evaluate your proposal.
8) Is any portion of this property located within the watershed of a water company as defined in section 16-1 of the Connecticut General Statutes? No If yes, the Applicant is required to provide written notice of the application by certified mail, return receipt requested, to the water company on the same day of filing this permit application with the Thompson Inland Wetlands and Watercourses Commission. Documentation

of such notice shall be provided to the Commission.

	Does any portion of this property contain a Natural Diversity Data Base (NDDB) area of concern as defined on the map of Federal and State Listed Species and Significant Natural Communities, for Thompson, Connecticut, prepared by the Connecticut Department of Environmental Protection? Yes If yes, the Applicant must contact the CT DEP for information regarding the State or Federal Listed Species of Concern.
10)	Names and Addresses of Abutters:
	33 Becola Road - Matthew and Christine Saad
	27 Becola Road - Karen Brown
11)	Estimated start date_ Summer 2022
	Estimated date of completion (all disturbed areas are stabilized) Fall 2022
12)	The undersigned hereby consents to necessary and proper inspections of the above mentioned property by the Agents of the Town of Thompson Inland Wetlands Commission, at reasonable times, both before and after the approval in question has been granted by the Agent, including site walks by Commission members and staff for the purpose of understanding existing site conditions, which may be necessary in order to render a decision on this application.
	The undersigned swears that the information supplied in this completed application is accurate to the best of her/his knowledge and belief.
	ABSOLUTELY NO WORK IS TO BEGIN UNTIL ALL NECESSARY APPROVALS ARE OBTAINED.
expro	on Approval the Applicant is responsible for publishing a notice of the approval, at the applicant's bense, in a newspaper having a general circulation in the Town of Thompson. The Agent will byide the necessary notice to the newspaper for public notice, and such notice must be published hin ten (10) days of the date of approval.
	Signature of Applicant Date
	James 20 alessandro
	Consent of Landowner if other than applicant Date

Please attach a written consent by the owner if applicant is not the property owner.



Property Information

Property ID 3509 Location 31 BECOLA RD

Owner DALESSANDRO JAMES P + BARBARA E



MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT

Town of Thompson, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 19, 2021 Data updated March 20, 2019 Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.



NORTHEAST DISTRICT DEPARTMENT OF HEALTH

69 South Main Street, Unit 4, Brooklyn, CT 06234 860-774-7350/Fax 860-774-1308 www.nddh.org

June 24, 2022

James & Barbara D'Alessandro 9 Beacon Road Webster, MA 01570

B100/APPLICATION

SUBJECT: FILE #5005271 -- BECOLA ROAD #31, MAP #116, BLOCK #24, LOT #25, THOMPSON, CT

Dear James & Barbara D'Alessandro:

On June 15, 2022, this department received an application proposing to raze existing house and build a new 3-bedroom house to your property.

Based on the information provided and paperwork in our files this request has been approved under the following conditions:

- Once addition is completed, a water analysis must be submitted to this office. The water sample is
 to be taken from the new faucet in the kitchen. This is to ensure that the new plumbing has been
 properly disinfected prior to use of the water for drinking purposes.
- Septic system to be taped off during construction to ensure proper separating distance is maintained and to protect from heavy traffic or storage of building materials in this area.
- Permit for the new house sewer line must be applied for and inspected by NDDH.

Approval is being granted under Section 19-13-B100a of the CT Public Health Code. This approval is given with the understanding that you will provide proper care and maintenance of the existing system (the septic tank is to be pumped every 3 years).

THE OWNER IS RESPONSIBLE TO SEEK PROPER AUTHORIZATION FROM ALL TOWN AGENCIES PRIOR TO START OF CONSTRUCTION.

Should you have any questions, please do not hesitate to contact this office.

Sincerely,

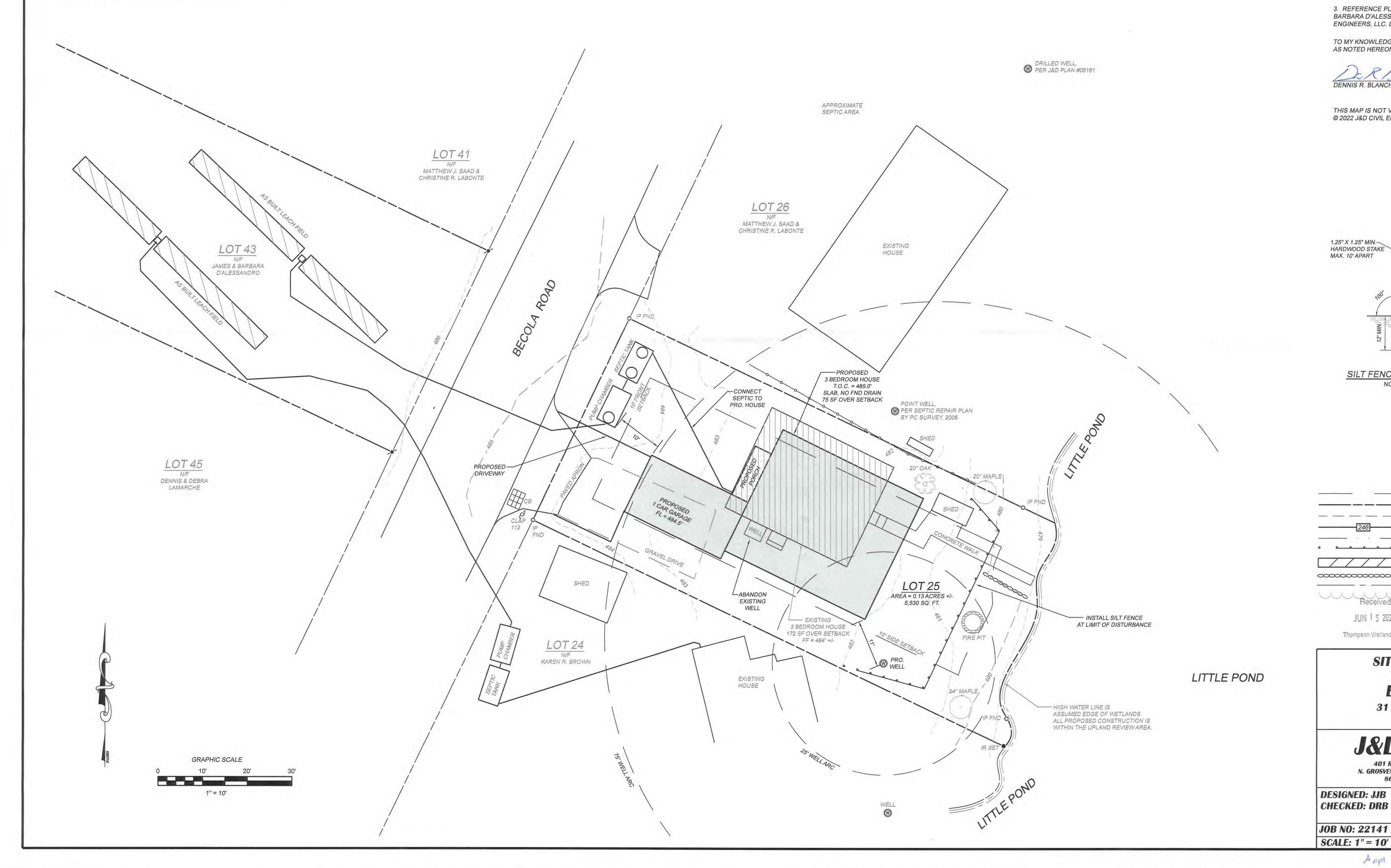
Ham Marchy 128

Maureen Marcoux, RS Senior Sanitarian ~ NDDH

cc: Thompson Building Official; J&D Civil Engineers.

EROSION AND SEDIMENT CONTROL NOTES:

- 1. THE PROPOSED ACTIVITY ON THE SITE WILL CONSIST OF THE DEMOLITION OF AN EXISTING HOUSE, AND CONSTRUCTION OF A NEW HOUSE, GARAGE, AND WELL.
- 2. ALL PROPOSED CONSTRUCTION IS WITHIN THE UPLAND REVIEW AREA.
- 3. NO WORK IS PROPOSED ALONG THE SHORELINE, OR WITHIN ANY WETLANDS OR WATERCOURSES.
- 4. EROSION CONTROL DEVICES MUST BE INSTALLED WHERE INDICATED ON THIS SHEET PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MAY SELECT AN ALTERNATE LOCATION FOR EROSION CONTROLS, PROVIDED THE EROSION CONTROLS ARE DOWNHILL OF ANY EARTHWORK OR CONSTRUCTION.
- 5. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SEEDED OR STABILIZED WITH TEMPORARY MULCH AS SOON AS FINAL GRADES HAVE BEEN ATTAINED.
- 6. THE OWNER OF RECORD SHALL DESIGNATE THE ON SITE ENVIRONMENTAL AGENT RESPONSIBLE FOR REGULARLY CHECKING THE CONDITION OF THE EROSION CONTROL DEVICES AND REMOVING ACCUMULATED SEDIMENT.



SURVEY NOTES:

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT "AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

THE SURVEY TYPE IS TOPOGRAPHIC, PERFORMED IN MAY 2022, AND IS INTENDED TO BE USED FOR THE DESIGN OF AN ENGINEERED SEPTIC

PROPERTY LINES DO NOT EXPRESS A BOUNDARY OPINION.

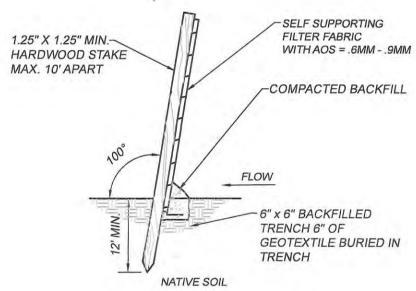
2. TEST PIT AND PERC TEST LOCATIONS HAVE BEEN COMPILED. IN PART. BASED UPON INFORMATION FURNISHED BY OTHERS. THIS INFORMATION IS TO BE CONSIDERED APPROXIMATE AND J & D CIVIL ENGINEERS DOES NOT TAKE RESPONSIBILITY FOR SUBSEQUENT ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THIS PLAN AS A RESULT.

3. REFERENCE PLAN: "PROPERY SURVEY PREPARED FOR JAMES AND BARBARA D'ALESSANDRO, 31 BECOLA ROAD THOMPSON." BY J&D CIVIL ENGINEERS, LLC. DATED JANUARY 8, 2020. SCALE 1" = 10"

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



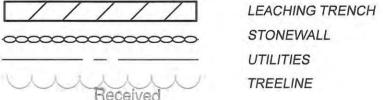
THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE © 2022 J&D CIVIL ENGINEERS, LLC



SILT FENCE INSTALLATION NOT TO SCALE

BUILDING SETBACK LINE PROPERTY LINE EXISTING CONTOUR LINE PROPOSED CONTOUR LINE WATER BODY **EROSION CONTROL DEVICES**

LEGEND



JUN 1 5 2022

Thompson Wetlands Office

SITE DEVELOPMENT PLAN PREPARED FOR **EMILY KREIDLER** 31 BECOLA RD - THOMPSON, CT

MAP 116 BLOCK 24 LOT 25

J&D CIVIL ENGINEERS, LLC

401 RAVENELLE ROAD N. GROSVENORDALE, CT 06255 860-923-2920

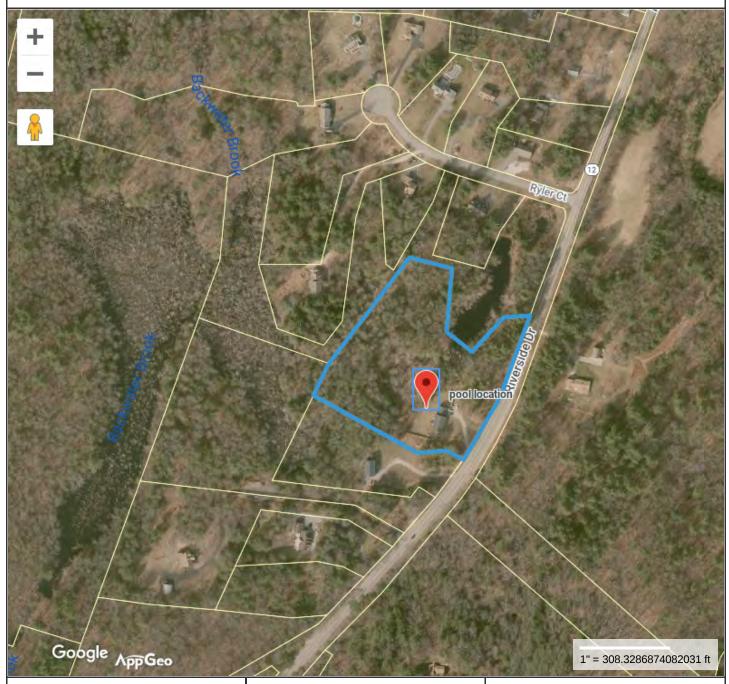
DESIGNED: JJB REVISIONS: CHECKED: DRB

DATE: JUNE 10, 2022 SHEET: 1 OF 1

Agenda Item E.b) 2. New Applications

WAA22018, Eliezer & Joyce Machado, 1290 Riverside Drive (Assessor's map 57, block 66, lot 6S), construct 12' X 24' inground pool, stamped received 6/15/22, issued 6/28/22, legal notice published 7/8/22, end of appeal period 7/23/22.

Locus Map for 1290 Riverside Drive



Property Information

Property ID 101887 Location

1290 RIVERSIDE DR Owner MACHADO ELIEZER

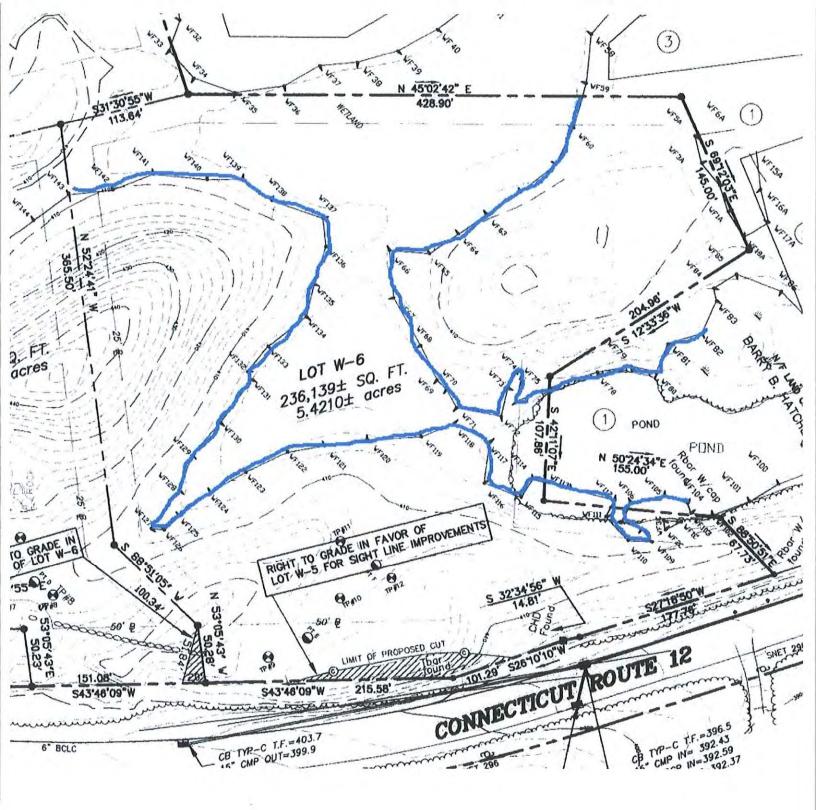


MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT

Town of Thompson, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 19, 2021 Data updated March 20, 2019

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

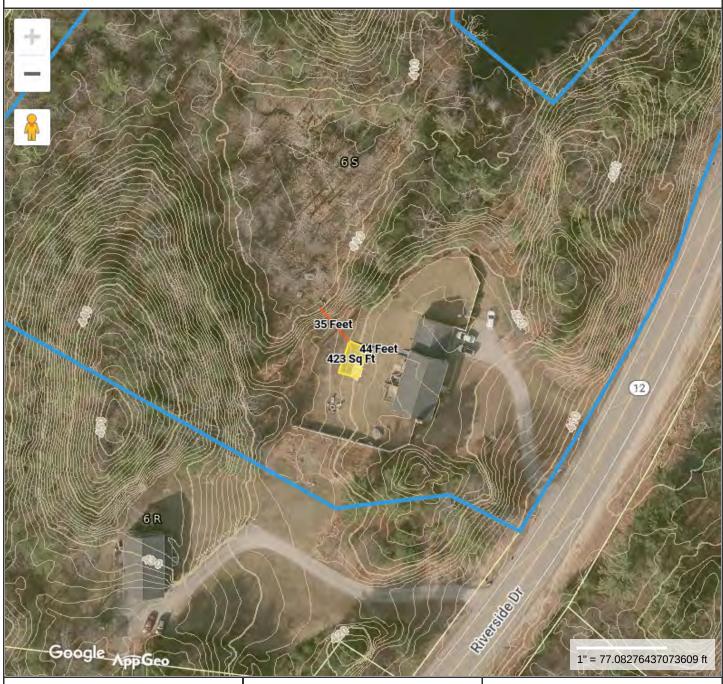


Received

JUN 1 5 2022

Thompson Wetlands Office

Pool Locus Map for 1290 Riverside Drive



Property Information

Property ID 101887 Location

1290 RIVERSIDE DR Owner MACHADO ELIEZER

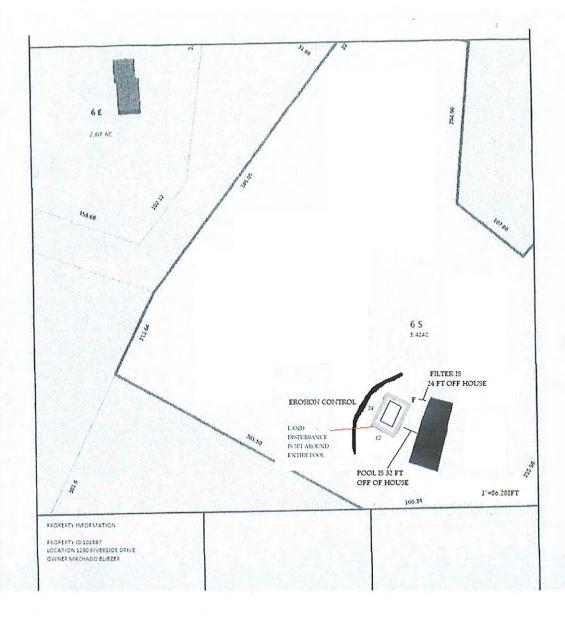


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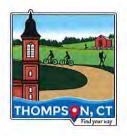
Geometry updated October 19, 2021 Data updated March 20, 2019

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.



Received JUN 1 5 2022

Thompson Wetlands Office



TOWN OF THOMPSON Inland Wetlands Commission

815 Riverside Drive P.O. Box 899 North Grosvenordale, CT 06255 Phone: 860-923-1852, Ext. 1

Email: wetlands@thompsonct.org
Web: https://www.thompsonct.org/

WETLAND AGENT APPROVAL WAA22018

APPROVAL GRANTED TO:

Eliezer and Joyce Machado 1290 Riverside Drive North Grosvenordale, CT 06255 **DATE OF APPROVAL:** June 28, 2022 **EXPIRATION DATE:** June 28, 2027

LOCATION OF AUTHORIZED ACTIVITY: 1290 Riverside Drive, Assessor's Map 57, Block 66, Lot 6S

DESCRIPTION OF AUTHORIZED ACTIVITY: To conduct regulated activities associated with the construction of a 12' by 24' inground pool as shown in Wetlands Agent Approval Application WAA22018 stamped received by the Thompson Wetlands Office June 15, 2022 and as shown in drawing(s) stamped received June 15, 2022.

This approval is issued pursuant to section 11(b) of the Inland Wetlands and Watercourses Regulations of the Town of Thompson.

APPROVAL CONDITIONS:

- Soils excavated for the pool construction, if deposited on site, shall be placed and stabilized with vegetation in any area that is not within 100 feet of delineated wetlands as shown in the application drawings. If excess soils are to be spoiled off site disposal, then such disposal must comply with all state and municipal requirements with respect to wetlands and watercourses.
- 2. A notice of decision will be requested to be published in the Thompson Villager. Note this approval is subject to appeal to the Inland Wetlands Commission for 15 days from the date of publication for a final decision.
- 3. If the authorized activity also involves an activity or a project which requires zoning or subdivision approval, special permit, variance, or special exception, then no work pursuant to this approval may begin until such other approval is obtained. (See section 11.10.c. of the Inland Wetlands and Watercourses Regulations of the Town of Thompson)
- 4. This approval will be valid for five (5) years. You are expected to notify the Wetland Agent of your starting date and to complete your activities within 2 years of beginning your site work. If you expect to take longer, you must contact the Wetland Agent for an extension.
- 5. The Thompson Wetland Agent/Inland Wetlands Commission must be notified in writing one week prior to the beginning of any regulated activities. Please use the enclosed card.
- Appropriate erosion and sediment controls shall be installed prior to the beginning of any regulated activities. Until all disturbed soils are stabilized appropriate erosion and sediment controls shall be used and maintained. (See document entitled "2002 Connecticut Guidelines for Soil Erosion and Sediment Controls" for guidance.)
- 7. If there are any changes in the location of any of the proposed activities for which this approval has been granted, then the new proposal must be presented to Thompson Wetland Agent/ Inland Wetlands Commission for approval of such changes prior to commencing activities.

Wetland Agent:	Maila Duto	Dated:	June 28, 2	1022
1 -11 -1 -1 -1	Marla Butts			

Agenda Item E.b) 3. New Applications

SUB22019, Lavallee Construction LLC, 0 Donovan Dr (Assessor's map 3, block 80, lots 2T, 2U & 2W), resubdivide 3 existing lots into 4 lots, stamped received 6/30/22. Note: work proposed in the 100-foot upland review area on Lot 2T is already authorized under Permit IWA17037.



J & D CIVIL ENGINEERS, LLC

401 Ravenelle Road N. Grosvenordale, CT 06255 www.jdcivilengineers.com (860) 923-2920

June 29, 2022

Thompson IWWC 815 Riverside Drive North Grosvenordale, CT 06255

Re:

Green Valley View Estates Subdivision

River Lots Resubdivision - Lots 2T, 2U and 2W

Job No: 06137/17206/20246/22142

Dear Members:

The Green Valley View subdivision was approved by the IWWC on October 9, 2007. It consisted of a 31 lots on 67 acres of land adjacent to the Quinebaug River. Approximately 22 acres, or approximately 33%, is open space and has been deeded to the town. Within the open space, there is an approximately 18 acre conservation easement preserving the important Quinebaug River riparian corridor.

The owner is now proposing to resubdivide 3 lots (2T, 2U and 2W - Developers lots 17, 18 and 20) into 4 lots, 2T, 2U-1, 2U-2 and 2W. There are minimal changes to the approved work on 2T, 2U-1 and 2W. Test pits were dug on 2U-2, which is considered the "new lot." The following documents are being submitted:

- 2 copies of subdivision review application
- 2 full size sets of plans by J & D Civil Engineers dated June 27, 2022
- 2 copies of excerpts from the report from Margaret Washburn, soil scientist dated August 28, 2007
- 2 copies of the stormwater narrative
- 2 copies of abutters

We hope that the Commission will accept the application at their July meeting so that decisions could potentially be made at the August meeting. Please contact me if you have any questions or require additional information.

Very Truly Yours,

J & D Civil Engineers, LLC

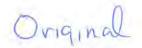
Received

JUN 3 0 2022

Janet J. Blanchette, PE

Thompson Wetlands Office

Z:\JD Civil Business Public\Projects\22142 Lavallee Re-subs - Donovan Drive\Documents\22142 IWWC trans letter of permit app River lots resub.docx



for commission use:

application # SUBDED 19

date received Tune 30,0020

SUBDIVISION REVIEW APPLICATION

Town of Thompson

INLAND WETLANDS COMMISSION 815 RIVERSIDE DRIVE NORTH GROSVENORDALE, CT 06255

Instructions:

All applicants must complete this application for preliminary review. The Commission will notify the applicant of any additional information that may be required and will schedule a public hearing if necessary. In addition to the information supplied herein, the applicant may submit other supporting facts or documents which may assist the Commission in its evaluation of the proposal. In order to streamline the application review process, it is recommended that all subdivision review applications be submitted to the Thompson Conservation Commission for review prior to submission to the regulatory commissions. Any changes made to a subdivision plan that affects wetlands or watercourses as a result of Planning & Zoning approval must be resubmitted to the Wetlands Commission for review and approval, or the conceptual approval will be considered null and void and a new subdivision review application with all fees will need to be submitted.

Two (2) copies of the completed application and two (2) copies of all the additional attached documents (site plan, etc.) must be submitted to the Town Clerk. State Statute provides that you may submit an application up to three (3) business days prior to the next regularly scheduled meeting, which means by the close of business hours on the Wednesday before a regular meeting date. The applicant is advised to read Sections 7 and 8 of the Regulations for further information regarding application requirements and procedures. THE APPLICANT IS FURTHER ADVISED THAT A BUFFER/SETBACK OF100 FEET FROM A WETLAND OR WATERCOURSE IS REQUIRED, AND A BUFFER/SETBACK OF 200 FEET FROM THE TEN (10) ESPECIALLY NOTEWORTHY WETLANDS AND WATERCOURSES IDENTIFIED IN THE TOWN OF THOMPSON INLAND WETLAND INVENTORY PREPARED BY NORTHEASTERN CONNECTICUT REGIONAL PLANNING AGENCY 1980 PAGES 9, 14 AND 15 IS REQUIRED. See Section 6 of the Regulations for further information regarding activities.

WE MUST HAVE THE FOLLOWING INFORMATION TO PROCESS YOUR APPLICATION:

- Directions to the property from the Thompson Town Hall
- Location of Utility Pole nearest your property

*Pole Number *Location of property in reference to Pole (side of street)

Locations of proposed house, septic test pits, well and driveway must be staked and labeled on site (These requirements must be LEGIBLY PRINTED on your MAPS at the time of application, but NOT in the area of the map details. Use outside edge of map for this information. Thank you.)

FAILURE TO HAVE THE ABOVE INFORMATION WILL POSTPONE PROCESSING OF YOUR APPLICATION

FEE SCHEDULE:

(Additional \$60.00 fee to State as per Public Act 09-03, Section 396)

(Permit Fee Now Includes Mandatory Legal Advertisement Fee of \$20. This DOES NOT include Legal Notice fees for Public Hearings, which will be billed separately.)

\$250 per lot + \$60 State Fee
Complex Application Fee......Applicants will be billed for professional review as needed,

Complex Application Fee.....Applicants will be billed for professional review as needed, see regulations booklet Section 18.5

Please complete the following application information.

Received

JUM 3 0 2022

Page 1 of 4

Date 💪	/27 /2 Z
	Applicant LAVALLEE CONST LLC
Home Ad	Idress 83 RICH RP N. GROS, CT 66255
Home Te	ele & HrsBusiness Tele & Hrs_508-728-642.8
	Address 5 AME
INLAND	t's interest in the Property:Owner Other WETLANDS APPROVALS CAN BE GRANTED TO PROPERTY OWNER ONLY. it shall be assigned or transferred without written permission of the Commission.
3) Name of	Property Owner (if not applicant) //
	ddress
Business	Address
Home Te	ele & Hrs Business Tele & Hrs
ider Pole Stre Tax	hical Location of the Property (site plan to include utility pole number nearest property or other ntifying landmarks) e # and Location
	erty to be subdivided contains:
Wetland Watercou	Soils (Swamp Marsh Bog Vernal Pool) urses (Lake or Pond Stream or River Intermittent Stream) in - Yest No
6) Purpose	and Description of the Activity for which Approval is requested:
a. Give	e a complete description of the proposed activity CONSTRUCTION OF
	HOUSES, WELLS, SEPTIC SYSTEMS AND
	RIVEWATS, MINIMAL GRADING IN UPLAND REVIEWAREA
If th	e above activity involves deposition or removal of material, what is the quantity?

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emporary and permanent stabilization m	
PROPOSED FEATURE	compensate for the impacts to the wetlands or S LOCATED OUTS(DE LE POSSIBLE.
atives been considered?	If yes, explain why this proposal was
	PROPOSED FEATURE

	the adjacent municipal wetlands agency on the same day of filing this permit application with the Thompson Inland Wetlands Commission (TIWC). Documentation of such notice shall be provided to the TIWC.
8)	Is any portion of this property located within the watershed of a water company as defined in section 16-1 of the Connecticut General Statutes? If yes, the Applicant is required to provide written notice of the application by certified mail, return receipt requested, to the water company on the same day of filing this permit application with the Thompson Inland Wetlands and Watercourses Commission. Documentation of such notice shall be provided to the Commission.
9)	Does any portion of this property contain a Natural Diversity Data Base (NDDB) area of concern as defined on the most updated map of Federal and State Listed Species and Significant Natural Communities, for Thompson, Connecticut, prepared by the Connecticut Department of Environmental Protection? If yes, the Applicant must contact the CT DEP for information regarding the State or Federal Listed Species of Concern.
10) Names and Addresses of Abutters:
	SEE ATACHED
11	
	Estimated date of completion (all disturbed areas are stabilized) <u>JUNE</u> 2003
12	The undersigned hereby consents to necessary and proper inspections of the above mentioned property by the Agents of the Town of Thompson Inland Wetlands Commission, at reasonable times, both before and after the approval in question has been granted, including site walks by Commission members and staff for the purpose of understanding existing site conditions, which may be necessary in order to render a decision on this application.
	The undersigned swears that the information supplied in this completed application is accurate to the best of her/his knowledge
	ABSOLUTELY NO WORK IS TO BEGIN UNTIL ALL NECESSARY APPROVALS ARE OBTAINED.
l u	nderstand by signing this application that it is my responsibility to provide all the information as requested. nderstand that the commission is unable to act upon an incomplete application.
	poor Julla 6-28-22
	Signature of Applicant Date
	Consent of Landowner if other than applicant Date
	Please attach a written consent by the owner if applicant is not the property owner.

Owner Address	Owner City	Owner	r St: Owner Zip
EN L 48 OLD TURNPIKE	QUINEBAUG	СТ	06262
SEPH A 5 CAROL AVE	QUINEBAUG	CT	06262
RD M JR + CANI18 MUROLO RD	N GROSVENORI	D, CT	06255-1814
BERT J + JUDY P O BOX 294	QUINEBAUG	CT	06262
HN E + TRICIA P O BOX 483	QUINEBAUG	CT	06262
NSTRUCTION 83 RICH RD	N GROSVENORI	D, CT	06255
IEL E + DAVINC2846 N MAIN ST	WATERBURY	CT	06704-1211
OMPSON P O BOX 899	N GROSVENORI	D, CT	06255-0899
OWN OF 815 RIVERSIDE DR	N GROSVENORI	D, CT	06255
OWN OF 815 RIVERSIDE DRIVE	N GROSVENORI	D, CT	06255
NSTRUCTION 83 RICH RD	N GROSVENORI	D, CT	06255
NSTRUCTION 83 RICH RD	N GROSVENORI	D, CT	06255
NSTRUCTION 83 RICH RD	N GROSVENORI	D, CT	06255
NSTRUCTION 83 RICH RD	N GROSVENORI	D, CT	06255
NSTRUCTION 83 RICH RD	N GROSVENORI	D, CT	06255
ARDO + 98 DONOVAN DR	QUINEBAUG	CT	06262
	/EN L 48 OLD TURNPIKE OSEPH A 5 CAROL AVE RD M JR + CANI 18 MUROLO RD BERT J + JUDY P O BOX 294 OHN E + TRICIA P O BOX 483 ONSTRUCTION 83 RICH RD RIEL E + DAVIN(2846 N MAIN ST OMPSON P O BOX 899 FOWN OF 815 RIVERSIDE DR FOWN OF 815 RIVERSIDE DR ONSTRUCTION 83 RICH RD	ZEN L 48 OLD TURNPIKE QUINEBAUG OSEPH A 5 CAROL AVE QUINEBAUG RD M JR + CANI 18 MUROLO RD N GROSVENORE BERT J + JUDY P O BOX 294 QUINEBAUG OHN E + TRICIA P O BOX 483 QUINEBAUG ONSTRUCTION 83 RICH RD N GROSVENORE OMPSON P O BOX 899 N GROSVENORE OWN OF 815 RIVERSIDE DR N GROSVENORE ONSTRUCTION 83 RICH RD N GROSVENORE	VEN L 48 OLD TURNPIKE QUINEBAUG CT OSEPH A 5 CAROL AVE QUINEBAUG CT RD M JR + CANI 18 MUROLO RD N GROSVENORD, CT OBERT J + JUDY P O BOX 294 QUINEBAUG CT OHN E + TRICIA P O BOX 483 QUINEBAUG CT ONSTRUCTION 83 RICH RD N GROSVENORD, CT OMPSON P O BOX 899 N GROSVENORD, CT OWN OF 815 RIVERSIDE DR N GROSVENORD, CT OWN OF 815 RIVERSIDE DR N GROSVENORD, CT ONSTRUCTION 83 RICH RD N GROSVENORD, CT

WASHBURN WETLAND CONSULTING LLC

19 Wolf Den Road • Pomfret Center, Connecticut 06259-2022 Telephone (860) 928-6728 • Fax (860) 963-1999

Janet Blanchette
J & D Civil Engineers
401 Ravenelle Road
North Grosvenordale, CT
06255

August 28, 2007

Introduction

At your request, on October 13, 16, 17, 24, 25, 27, 30, 31, November 1 and 3, 2006, and January 10, 2007, I conducted a site investigation on the Whipple property on Route 197 in Quinebaug, Connecticut. The purpose of the site investigation was to delineate the wetlands on the subject property, as well as some wetlands on abutting properties. I also verified that a small isolated wetland does not function as a vernal pool on April 20, 2007 (see below for further details). At your request, I did not delineate most of the floodplain wetlands associated with the Quinebaug River.

The subject property is located on the edge of a glacial till ridge and deposits of ice-contact glacial outwash. A portion of the floodplain of the Quinebaug River is located on the subject property. The soils on the subject property were extensively disturbed in the past during the gravel mining process.

Wetlands on the Subject Property

The wetlands were delineated using consecutively numbered lengths of blue surveyors' ribbon. The wetland flags series are listed below. Please refer to the enclosed site sketches for further details. Please note that the site sketches are not to scale.

WF1 – WF12. Near northwest property boundary. Intermittent watercourse shown on U.S.G.S. topographic map, plus associated wooded shrub swamp. The main part of this stream flows into Massachusetts.

WF13 - WF23. Connect WF13 to WF1. Same wetland system as WF1- WF12.

WF24 – WF44. Unmapped intermittent stream flowing through the central portion of the subject property from west toward the northeast. Includes associated wooded shrub swamp.

WF45 - WF87. Same wetland system as WF24 - WF44.

WF88 - WF109. Connect WF109 to WF24. Same wetland system as WF24 - WF44.

LANE LANE

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WF110 – WF127. Unmapped intermittent stream flowing southeast toward the floodplain. Includes associated wooded shrub swamp.

WF1A - WF12A. Same wetland system as WF110 - WF127.

WF13A - WF15A. Connect WF13A to WF1A. Connect WF15A to WF127. Please note that an interrupted channel was observed connecting this wetland system to a wetland containing cattails on the abutting property to the west. However, this interrupted channel, which appears, disappears and reappears between the western boundary and wetland flag series WF13A - WF15A, does not meet the criteria for status as an intermittent watercourse. The other intermittent watercourses on the subject property were delineated under Part II of the General Provisions of the Connecticut Department of Environmental Protection State Policy, whereby "Intermittent watercourses shall be delineated by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (A) Evidence of scour or deposits of recent alluvium or detritus, (B) the presence of standing or flowing water for a duration longer than a particular storm incident, and (C) the presence of hydrophytic vegetation." In the interrupted channel, which appears, disappears and reappears between the western boundary and wetland flag series WF13A - WF15A, only characteristic (A) was observed on the steepest part of the till ridge. Characteristics (B) and (C) were not observed. No wetlands soils were observed associated with the interrupted channel which appears, disappears and reappears between the western boundary and wetland flag series WF13A - WF15A.

- D WF128 WF 133. Connect WF128 to WF133. Isolated wetland near an old well. In this area the soils have been disturbed by heavy equipment.
- WF134 WF148. Connect WF134 to WF148. Isolated wetland containing an old well. In this area the soils have been disturbed by heavy equipment.
- WF149 WF195. Connect WF149 to WF195. Isolated wetland. Probably functions as a vernal pool.
- WF196 WF211. Connect WF196 to WF211. (Do not connect WF197 to WF198.

 Please refer to series WF320 WF327 and WF328 WF335 below for further details.)

 A vernal pool. Fish predators are absent. The water in this vernal pool may overflow at extreme peaks of high precipitation, flow through a ditch and into a culvert under Route 197.

MOT WITHIN 100' OF PROPERTY

WF212 - WF216. Isolated wetland.

WF217 – WF234. This wetland system has characteristics of a shallow pond, wet meadow, a marsh, a bog, and a wooded shrub swamp. Functions as a vernal pool. Wood frogs were calling from these wetlands on April 20, 2007. The wetland continues beyond

NOT WITTHY ICO OF PROPERT

WF243, but I did not think I was on the subject property any more so I stopped the flags at WF234.

WF235 – WF243. Same wetland system as WF217 – WF234. The flags end beside Route 197 at the end of a stone-lined drainage ditch.

WF244 – WF249. Do not connect WF249 to WF250. Isolated wetland behind last house on the left on Carol Ave. Water appears to flow off the subject property between WF249 and WF250. Water flowing off the subject property at this point appears to percolate through the sandy soil on the abutting property.

WF250 - WF254. Connect WF254 to WF244. Same wetland system as WF244 - WF249.

- WF255 WF273. Connect WF255 to WF273. Isolated wooded shrub swamp wetland formed by gravel mining process.
- WF274 WF295. Connect WF274 to WF295. Intermittent watercourse and associated wet meadow and wooded shrub swamp. Water pools in the existing cart path, flows down a very steep slope to the south, and percolates into the soil near the base of the steep slope.
- WF296 WF300. Connect WF296 to WF300. Small isolated wetland formed during gravel mining process. Site investigation verified that this small isolated wetland does not function as a vernal pool on April 20, 2007.
- WF301 WF320. Connect WF301 to WF320. Isolated wooded shrub swamp.

WF321 - WF327. Connect WF327 to WF197. Drainage ditch beside Route 197.

WF328 - WF335. Connect WF335 to WF198. Do not connect WF197 to WF198. Same drainage ditch as WF320 - WF327.

References used in the soil identification process included the *Munsell Color Chart, Soil Survey of Windham County Connecticut* (USDA Soil Conservation Service, December 1981), *Indicators for Identifying Hydric Soils in New England* (New England Interstate Water Pollution Control Commission, Third Edition, April, 2004), a surveyor's map you provided, a satellite map from the internet, and the USGS topographic map for the subject property.

Soil Types on the Subject Property

According to the Soil Survey of Windham County Connecticut, the wetlands soils on the subject property associated with the floodplain of the Quinebaug River consist of Rippowam fine sandy loam. Also, according to the Soil Survey, the wetlands soils associated with wetland flag series WF149 – WF195, WF196 – WF211, WF212 – WF216, and WF217 – WF243 consist of Adrian and Palms mucks.

Many of the wetlands on the subject property are not mapped in the Soil Survey. The wetlands soils associated with these wetlands consist of a complex of Ridgebury, Leicester, and Whitman extremely stony fine sandy loams, and/or Udorthents (manmade soils consisting of fill created during the gravel mining process.

Wetlands on Abutting Property

On January 10, 2007, I conducted a site investigation on property abutting the Whipple site on Route 197 in Quinebaug, Connecticut. The purpose of the site investigation was to delineate the wetlands the abutting property. The site investigation was limited to the area you indicated on a sketch that you provided. The only wetlands that were observed were associated with the Quinebaug River. The subject property is located on deposits of ice-contact glacial outwash.

The wetlands were delineated using consecutively numbered lengths of blue surveyors' ribbon. There is one series of wetland flags, WF1R – WF17R. Please refer to the attached site sketch and U.S.G.S. topographic map for further details.

References used in the soil identification process included the Munsell Color Chart, Soil Survey of Windham County Connecticut (USDA Soil Conservation Service, December 1981), Indicators for Identifying Hydric Soils in New England (New England Interstate Water Pollution Control Commission, Second Edition, 1998), a surveyor's map you provided, and the USGS topographic map for the subject property.

According to Map 2 of the Soil Survey of Windham County Connecticut, the wetlands soils on the subject property associated with the floodplain of the Quinebaug River consist of Rippowam fine sandy loam and Suncook loamy fine sand.

Vernal Pool Verification

On April 20, 2007, at your request, I investigated the small isolated wetland created during the gravel mining process that was delineated in the fall of 2006 with wetland flags numbered WF296 – WF300, to see if it was functioning as a vernal pool.

Using a kick net, I checked this isolated depression and no obligate vernal pool species (wood frog, spotted salamander, fairy shrimp) were observed. No egg masses of any amphibian species were observed. No wood frogs were heard calling from this depression.

It was the height of the season for wood frogs to mate on April 20, 2007. Many wood frogs were calling in vernal pools elsewhere on the site. If the small isolated depression delineated with wetland flags WF296 - WF300 were functioning as a vernal pool, on April 20, 2007, they and/or their egg masses would have been present.

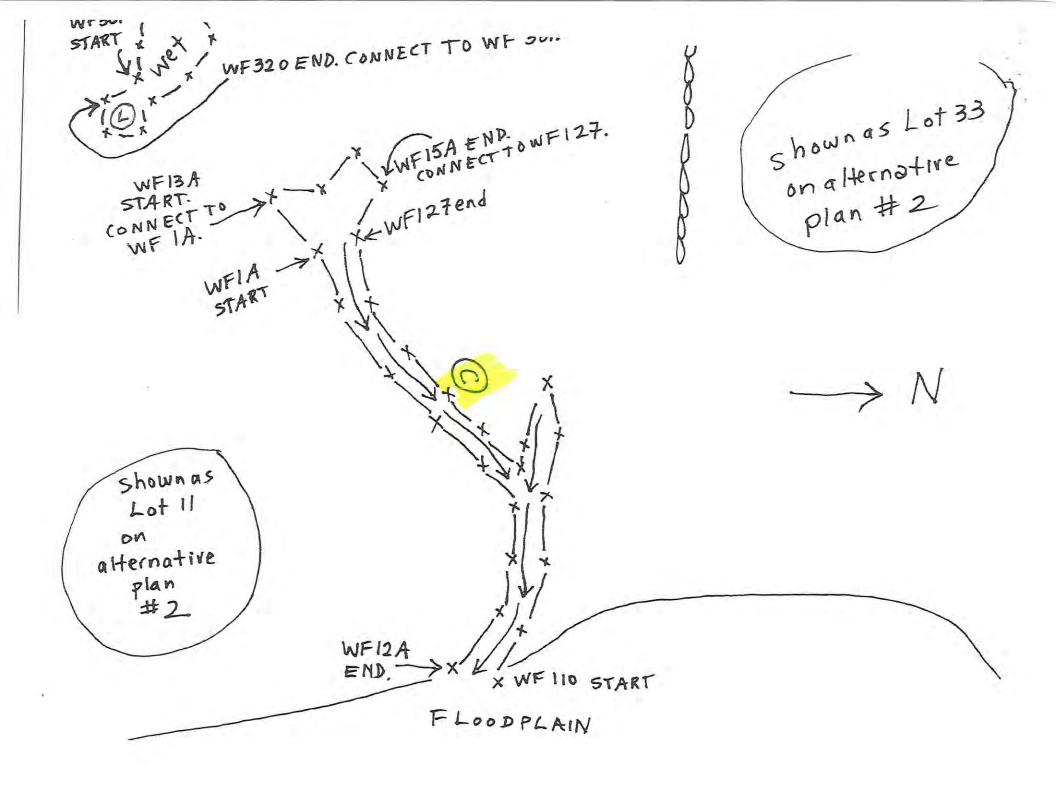
Clearly, the isolated depression delineated with wetland flags numbered WF296 -WF300 does not function as a vernal pool.

It has been a pleasure working with you on this site. Please feel free to call me if I may be of further assistance.

Sincerely,

Margaret Washburn, M. S.

Margaret Washburn, M.S. Registered Professional Soil Scientist



401 Ravenelle Road N. Grosvenordale, CT 06255 www.jdcivilengineers.com (860) 923-2920

Stormwater Runoff Narrative – Lavallee 4 lot - Resubdivision Donovan Drive – Thompson, CT

Original Subdivision Lots 17, 18, and 20, Assessors Lots 2T, 2U, 2W June 29, 2022

This property is part of the Donovan Drive subdivision near the Massachusetts border under construction by Lavallee Construction. There are currently 3 lots on the northeast side of Donovan Drive that the owner would like to reconfigure to result in 4 building lots. So, one new building lot is proposed. The 4 lots will each be a little over 1 acre in size. The rear property lines of these lots abut the town's recently accepted open space parcel along the Quinebaug River and its adjacent flood plain. The lots all drain away from Donovan Drive and toward the flood plain.

The soil to the rear of these lots and on the sloped land below the lots in the town's open space parcel is classified as well drained Hinkley sands and gravels. Runoff from the lots will be in the form of sheet flow toward the well drained soil where significant infiltration will occur. In addition, there is considerable storage in the flat wetlands in the flood plain along the river to absorb any runoff that is not infiltrated.

Therefore, the addition of one proposed house lot in the drainage area to the flood plain will not affect the runoff pattern in the watershed or significantly increase the flow to the Quinebaug River.

4 LOT RESUBDIVISION PLAN MAP 3 BLOCK 80 LOTS 2T, 2U, 2W) (DEVELOPER'S LOTS 17, 18, 20)

DONOVAN DRIVE - THOMPSON, CT

DATED: JUNE 27, 2022

OWNER AND APPLICANT:

LAVALLEE CONSTRUCTION LLC 83 RICH ROAD NORTH GROSVENORDALE, CT 06255

INDEX OF DRAWINGS

- COVER
- SURVEY
- SITE DEVELOPMENT PLAN
- TEST PIT AND MLSS DATA



LOCATION MAP 1'' = 500'

ZONE: RURAL RESIDENTIAL AGRICULTURAL DISTRICT (RRAD) USE: RESIDENTIAL

ITEM	REQUIRED	LOT 2T	LOT 2U-1
FRONTAGE	150'	156.25'	162.10'
LOT COVERAGE	<50%	7 %	8 %
FRONT SETBACK	40'	74'	51'
SIDE SETBACK	20'	22'	<i>50'</i>
REAR SETBACK	20'	115'	143'
LOT SIZE	40,000 SF	57,255 SF	41,837 SF

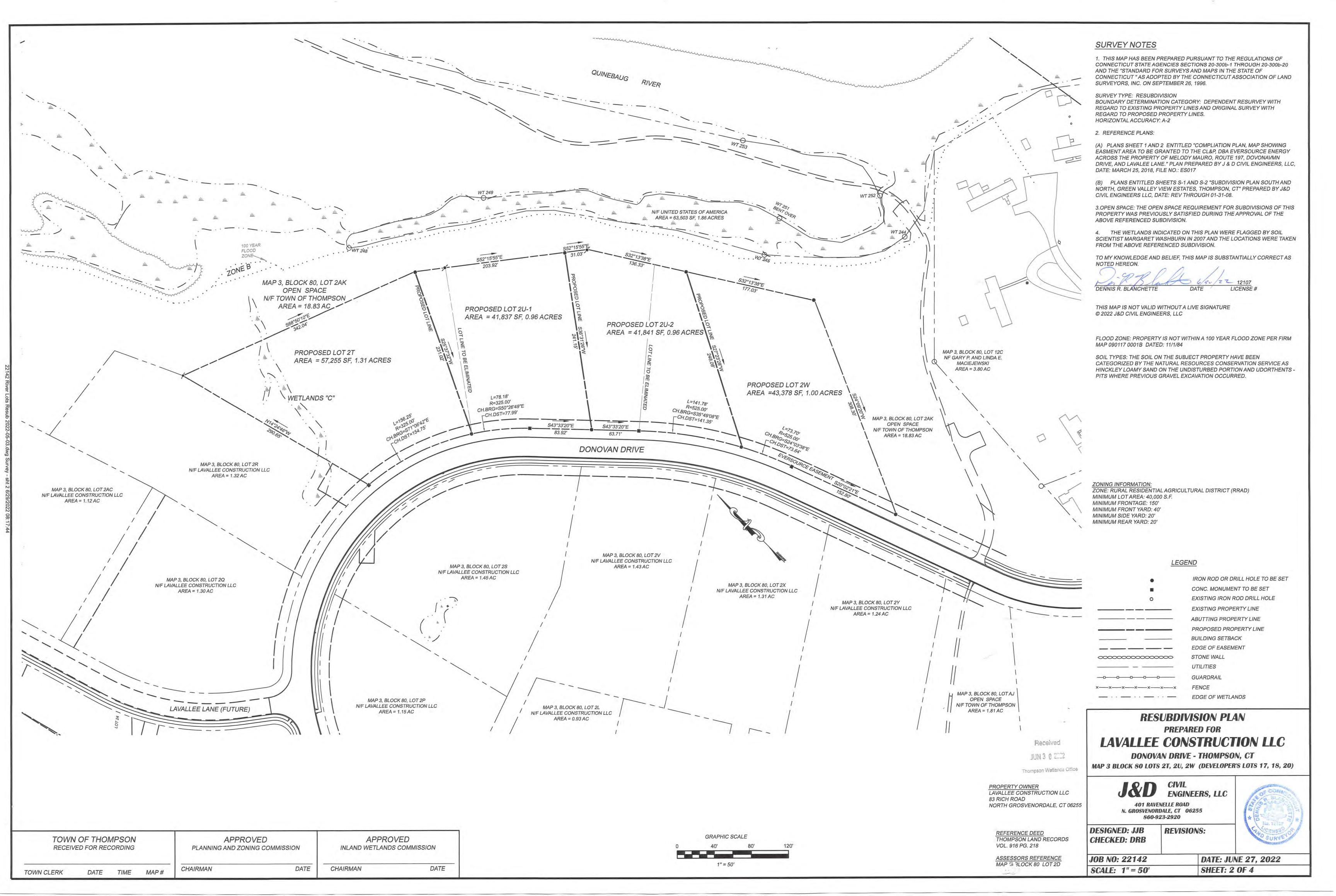
ITEM	REQUIRED	LOT 2U-2	LOT 2W
FRONTAGE	150'	205.49'	226.50'
LOT COVERAGE	<50%	10%	9%
FRONT SETBACK	40'	72'	67'
SIDE SETBACK	20'	34'	31'
REAR SETBACK	20'	119'	101'
LOT SIZE	40,000 SF	41,841 SF	43,379 SF

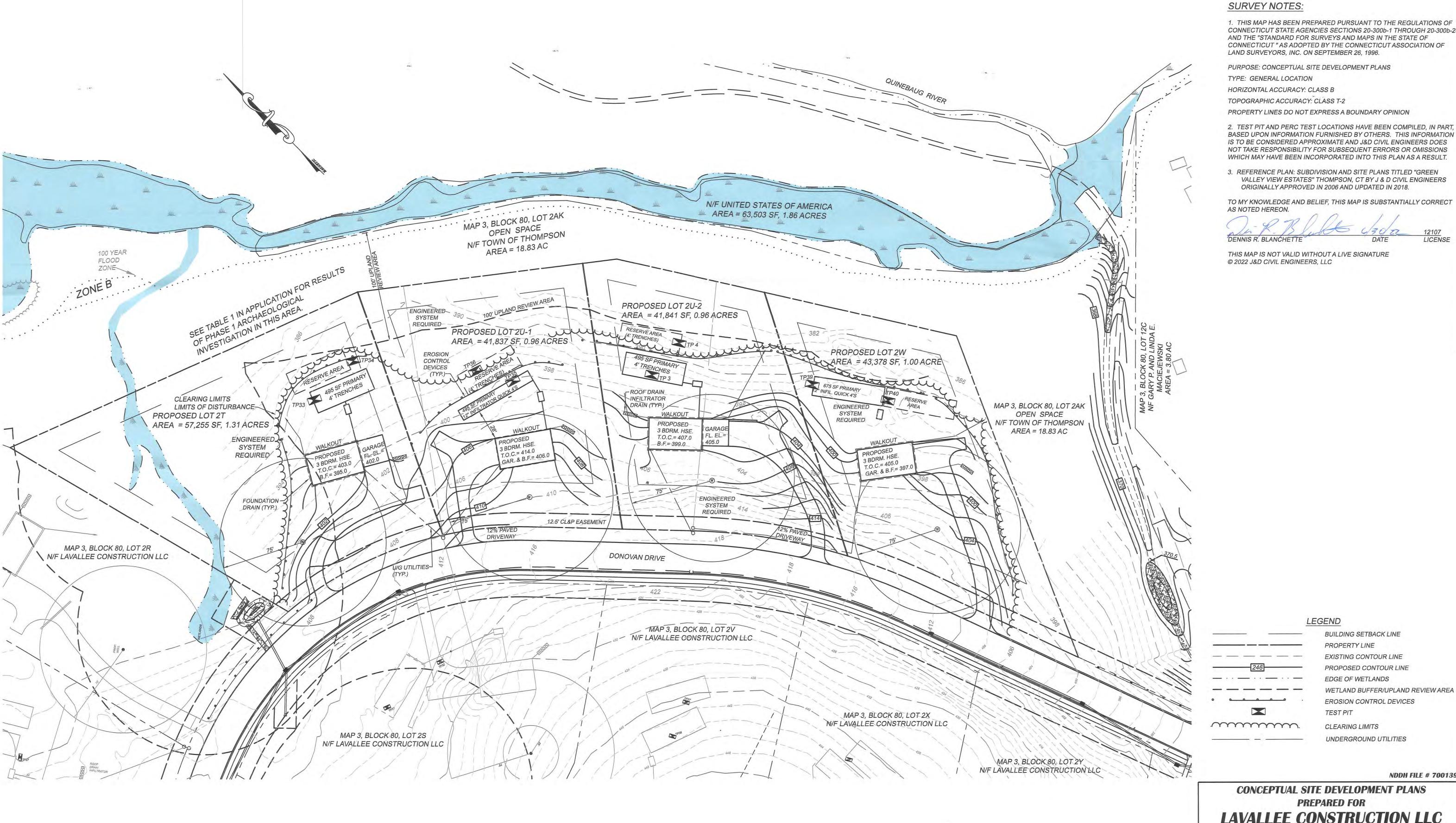
Received

JUN 3 0 2022 Thompson Wetlands Office

APPROVED APPROVED INLAND WETLANDS COMMISSION PLANNING AND ZONING COMMISSION CHAIRMAN CHAIRMAN TOWN OF THOMPSON DATE OF PZC APPROVAL RECEIVED FOR RECORDING DATE OF EXPIRATION TOWN CLERK DATE TIME MAP#

J & D CIVIL ENGINEERS, LLC 401 RAVENELLE ROAD THOMPSON, CT 06255 JDCIVILENGINEERS.COM 860-923-2920





Received JUN 3 0 2022

Thompson Wetlands Office

CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT " AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

PURPOSE: CONCEPTUAL SITE DEVELOPMENT PLANS

TYPE: GENERAL LOCATION

HORIZONTAL ACCURACY: CLASS B

TOPOGRAPHIC ACCURACY: CLASS T-2

2. TEST PIT AND PERC TEST LOCATIONS HAVE BEEN COMPILED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. THIS INFORMATION IS TO BE CONSIDERED APPROXIMATE AND J&D CIVIL ENGINEERS DOES NOT TAKE RESPONSIBILITY FOR SUBSEQUENT ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THIS PLAN AS A RESULT.

3. REFERENCE PLAN: SUBDIVISION AND SITE PLANS TITLED "GREEN VALLEY VIEW ESTATES" THOMPSON, CT BY J & D CIVIL ENGINEERS ORIGINALLY APPROVED IN 2006 AND UPDATED IN 2018.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

DENNIS R. BLANCHETTI LICENSE

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE © 2022 J&D CIVIL ENGINEERS, LLC

LEGEND

BUILDING SETBACK LINE PROPERTY LINE

EXISTING CONTOUR LINE PROPOSED CONTOUR LINE

EDGE OF WETLANDS WETLAND BUFFER/UPLAND REVIEW AREA

EROSION CONTROL DEVICES TEST PIT

 \dots **CLEARING LIMITS**

UNDERGROUND UTILITIES

NDDH FILE # 7001397

PREPARED FOR LAVALLEE CONSTRUCTION LLC

> DONOVAN DRIVE - THOMPSON, CT MAP 3 BLOCK 80 LOTS 2T, 2U-1, 2U-2, 2W (DEVELOPER'S LOTS 17, 18, 20)

ENGINEERS, LLC

401 RAVENELLE ROAD N. GROSVENORDALE, CT 06255 860-923-2920

DESIGNED: JJB REVISIONS: CHECKED: DRB

DATE: JUNE 27, 2022 JOB NO: 22142 SHEET: 3 OF 4 **SCALE:** 1" = 40'

TEST PIT NO. 32 TEST PIT NO. 39 HOLE Q (TP'S 33 & 34) HOLE T (TP'S 39 & 40) 0-5" TOPSOIL DEPTH = 22" 0-6" TOPSOIL ORGANICS DEPTH = 21" 5-32" SANDY LOAM TO LOAMY PERC. RATE = 13.0 MIN/INCH 6-21" REDDISH BROWN FINE PERC. RATE = 10.0 MIN/INCH SAND, ROOTS, ROCKS SANDY 32-116" MOD. COMPACT PAN READING TIME LOAM, PEBBLES READING 2.125" 21-73" GRAY VERY COMPACT 12:37 MOTTLING: N/A 1:44 SANDY PAN, MOTTLED 3.875" 12:47 5.50" RESTRICTIVE LAYER: 32" 1:54 5.25" 73-144" COURSE LOAMY SAND AND 12:57 LEDGE: N/A 2:04 6.125" GRAVEL WITH POCKET OF 1:07 10.25" WATER: N/A 2:14 6.875" FINE SAND 1:17 11.50" 2:26 7.75 1:27 12.50 MOTTLING: 23" TEST PIT NO. 33 RESTRICTIVE LAYER: 23" LEDGE: N/A HOLE TAA (TP'S 3 & 4) HOLE R (TP'S 35 & 36) 0-5" TOPSOIL WATER: N/A DEPTH = 16/20" DEPTH = 19" 5-24" FINE SANDY LOAM, FINE PERC. RATE = 7.2 MIN/INCH PERC. RATE = 10.0 MIN/INCH ROOTS TEST PIT NO. 40 24-88" COMPACT PLATEY SILT TIME READING READING LOAM MOIST 0-5" TOPSOIL WITH ORGANICS 12:39 10:11 1.75" 88-138" SILT SAND AND GRAVEL 5-23" YELLOW BROWN FINE SANDY 12:49 10:24 6.25" COBBLES LOAM WITH PEBBLES 11.75" 10:28 12:59 138-150" COMPACT PLATEY SILT 23-79" DARK DRAY SANDY PAN, 10:38 10.625" 1:09 14" MOTTLED 10:48 15.75" 12" 1:19 79-166" COURSE SAND AND 1:29 16.75" GRAVEL WITH FINE SAND, MOTTLED

LOT 17 (2T) - 3 BEDROOMS - ENGINEERED

MLSS = 54' (HF = 30, PF = 1.2, FF = 1.5)

MLSS = 43' (HF = 24, PF = 1.2, FF = 1.5)

LOT (2U-2)- 3 BEDROOMS - ENGINEERED

MLSS = 39' (HF = 26, PF = 1.0, FF = 1.5)

LOT 20 (2W) - 3 BEDROOMS-ENGINEERED

MLSS = 59' (HF = 26, PF = 1.5, FF = 1.5)

_ 4" PVC OR 4" CPP

ROOF DRAIN INFILTRATOR DETAIL

N.T.S.

LOT 18 (2U-1)- 3 BEDROOMS - ENGINEERED

PERC RATE Q = 10.0 MIN./ IN.

PERC RATE R = 10.0 MIN./ IN. 495 S.F. LEACHING AREA

PERC RATE R = 7.2 MIN./ IN.

PERC RATE T = 13.0 MIN./ IN. 675 S.F. LEACHING AREA

495 S.F. LEACHING AREA

LSS PROVIDED = 55'

495 S.F. LEACHING AREA

TP 33 & 34

TP 35 & 36

RL = 29" - 41"

TP 3 & 4

RL = 19" - 24"

S > 15.0%

TP 39 & 40

RL = 23" - 24"

SPLASH BLOCK

- ROOF LEADER

S = 10.1% - 15.0%

LSS PROVIDED = 64"

S = 10.1% - 15.0%

LSS PROVIDED = 55'

RL = 24'' - 31''

S = 8.1% - 10.0%

LSS PROVIDED = 55'

MOTTLING: N/A RESTRICTIVE LAYER: 24" LEDGE: N/A WATER:N/A MOTTLING: 24" RESTRICTIVE LAYER: 24"

LEDGE: N/A

WATER: N/A

TEST PIT NO. 3

MOTTLING: N/A"

LEDGE: N/A

WATER: N/A

ROOTS: 25"

TEST PIT NO. 4

MOTTLING: N/A

LEDGE: N/A

WATER: N/A

ROOTS: 24"

TEST PITS DATED JUNE 10, 2022

0-7" ORGANICS, TOPSOIL, ROOTS

24-33" GREY SILITY LOAMY FINE

0-4" ORGANICS, TOPSOIL ROOTS

FINE SAND STONES ROCKS

4-19" SANDY LOAM ROOTS 19-31" GREY SILTY LOAMY

31-93" COMPACT PAN

RESTRICTIVE LAYER: 19"

HOUSE

SAND, ROCKS

RESTRICTIVE LAYER: 24"

33" COMPACT PAN, ROCKS

7-24" SANDY LAOM TO FINE SANDY

0-9" TOPSOIL ROOTS 9-31" FINE SANDY LOAM, ROOTS 31-136" COMPACT SILTY LOAM, 136-168" SILTY FINE SAND

MOTTLING: N/A RESTRICTIVE LAYER: 31" LEDGE: N/A WATER: SEEPS 68"

TEST PIT NO. 35

TEST PIT NO. 34

0-5" TOPSOIL ROOTS 5-41" FINE SANDY LOAM TO SANDY 41-145" COMPACT SANDS TO GRAVEL

MOTTLING: N/A RESTRICTIVE LAYER: 41" LEDGE: N/A WATER: N/A

TEST PIT NO. 36 0-5" TOPSOIL

5-29" FINE SANDY LOAM 29-112" COMPACT SILT LOAM 112-157" MED TO FINE SANDS

MOTTLING: N/A RESTRICTIVE LAYER: 29" LEDGE: N/A WATER: N/A

TEST PIT NO. 37

0-6" TOPSOIL 6-39" SANDY LOAM 39-100" COMPACT PAN

MOTTLING: N/A RESTRICTIVE LAYER: 39" LEDGE: N/A WATER: N/A

TEST PIT NO. 38

0-6" TOPSOIL 6-29" SANDY LOAM 29-102" COMPACT PAN MOTTLING: N/A

> LEDGE: N/A WATER: N/A

RESTRICTIVE LAYER: 29"

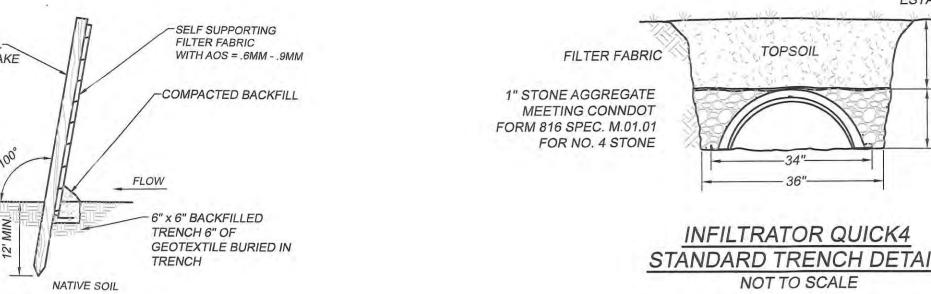
1.25" X 1.25" MIN. HARDWOOD STAKE MAX. 10' APART NATIVE SOIL

HI-CAPACITY INFILTRATOR

SIDEWINDERS

(TWO UNITS LONG)

SILT FENCE INSTALLATION NOT TO SCALE



FINISHED GROUND -NON-WOVEN NATIVE MATERIAL OR LOAM FILTER FABRIC STONE AGGREGATE **MEETING CONNDOT** FORM 816 SPEC. M.01.01 FOR NO. 4 OR NO. 6 STONE

LEACHING TRENCH DETAIL

TOPSOIL

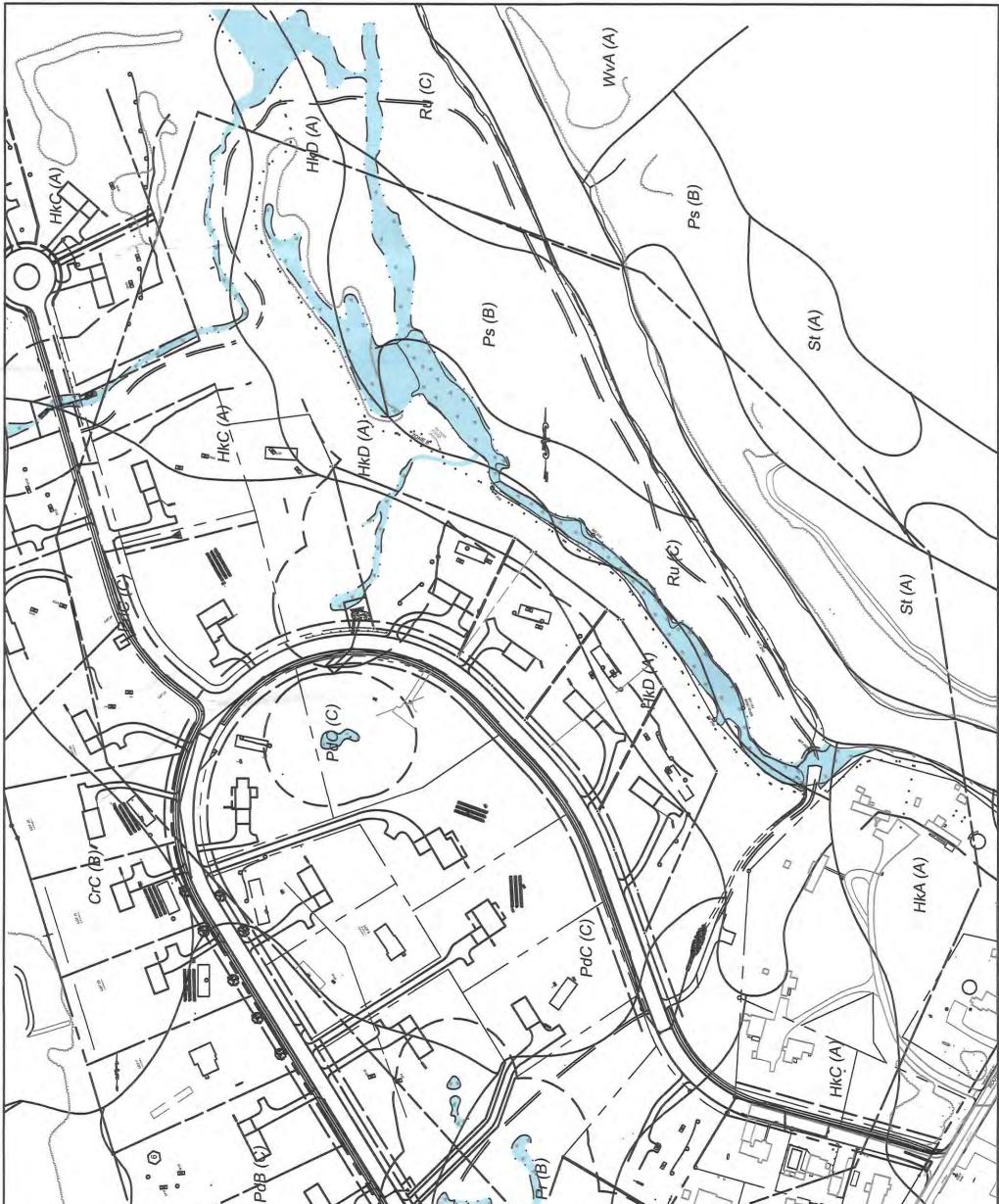
NOT TO SCALE

ESTABLISH VEGETATIVE COVER

8' MAX BURIAL DEPTH

12" MIN., H-10 LOAD AREAS

6" MIN., NON-TRAFFIC AREAS



SOILS MAP, EXISTING BUILDINGS AND STREETS WITHIN 500' NTS

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

A. REFERENCE IS MADE TO THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT 4 SINGLE FAMILY RESIDENCES. THE PRIMARY FOCUS OF EROSION AND SEDIMENT CONTROL FOR THIS PROJECT IS THAT NO ERODED SEDIMENTS ENTER THE WETLANDS, DOWNSTREAM PROPERTIES OR DOWNSTREAM ROADS. ANY EXCAVATED MATERIAL, WHETHER REMOVED FROM THE SITE OR NOT, SHALL NOT BE PLACED WITHIN A REGULATED INLAND

THE RESPONSIBILITY FOR COMPLIANCE WITH THIS PLAN SHALL BELONG TO JASON LAVALLEE (508 728 6628). IF CONDITIONS WARRANT IT OR THE TOWN REQUESTS IT, THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL DEVICES BEYOND WHAT IS INDICATED ON THE PLANS.

THE APPLICANT WILL CONTACT THE THOMPSON INLAND WETLANDS AND WATERCOURSES COMMISSION'S AGENT AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED PRIOR TO ANY CONSTRUCTION OR EXCAVATION ON THE PROPERTY.

B. INDIVIDUAL LOT CONSTRUCTION:

SEE LOT DEVELOPMENT SHEETS FOR ADDITIONAL AND SPECIFIC EROSION CONTROL NOTES ASSOCIATED WITH EACH LOT.

1. THE CLEARING LIMITS SHALL BE STAKED IN THE FIELD BY A LAND SURVEYOR.

2. INSTALL THE ANTI-TRACKING CONSTRUCTION ENTRANCE FOR LOTS BEING BUILT UPON AFTER PAVING OF THE BINDER COURSE.

3. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH THE E&S PLAN. 4. CUT TREES WITHIN THE DEFINED CLEARING LIMITS AND REMOVE CUT WOOD. CHIP BRUSH AND

STOCKPILE CHIPS FOR FUTURE USE OR REMOVE OFF SITE. 5. STRIP TOPSOIL AND STOCKPILE WHERE INDICATED AND SECURE WITH EROSION AND SEDIMENT

CONTROLS. BEGIN HOUSE CONSTRUCTION.

7. INSTALL SEPTIC SYSTEM.

8. PAVE DRIVEWAY IF SLOPE EXCEEDS 10%.

9. LOAM AND SEED DISTURBED AREAS. 10. AFTER LAWN AREAS ARE PERMANENTLY STABILIZED REMOVE EROSION AND SEDIMENT CONTROLS.

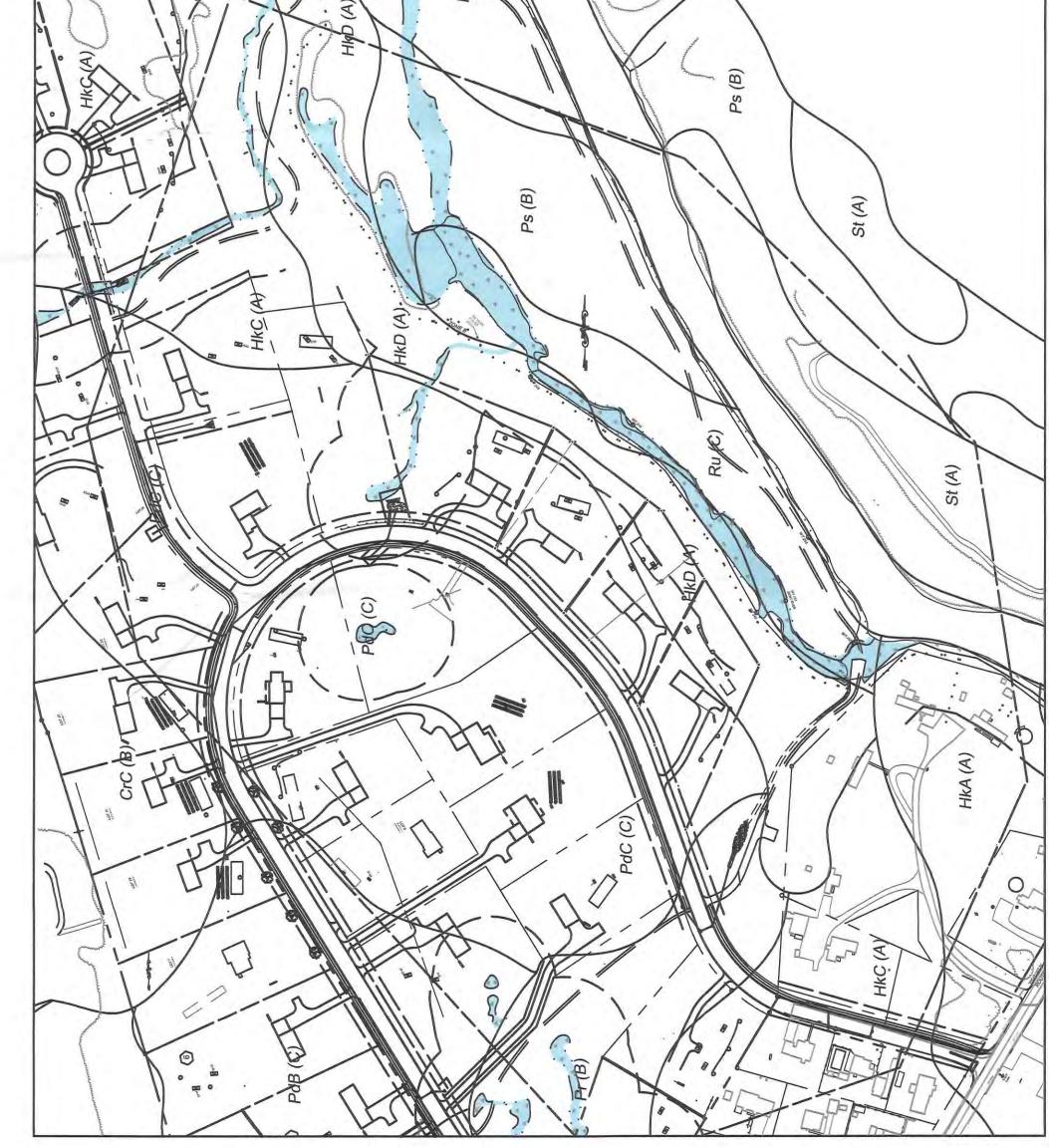
C. MAINTENANCE OF EROSION CONTROL DEVICES:

1. INSPECT SILT FENCE AND HAYBALES AT LEAST ONCE A WEEK, AND WITHIN 24 HOURS OF THE END OF EVERY STORMN WITH A RAINFALL AMOUNT OF 0.5" OR GREATER.

2. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH A HEIGHT OF HALF THE HEIGHT OF THE

3. REPAIR OF REPLACE THE SILT FENCE OR HAYBALES WITHIN 24 HOURS OF OBSERVED FAILURE.

FAILURE OF THE EROSION CONTROL DEVICE HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED.



NDDH FILE # 7001397 TEST PIT DATA, MLSS CALCULATIONS & DETAILS PREPARED FOR

LAVALLEE CONSTRUCTION LLC

DONOVAN DRIVE - THOMPSON, CT MAP 3 BLOCK 80 LOTS 2T, 2U-1, 2U-2, 2W (DEVELOPER'S LOTS 17, 18, 20)

Thompson Wetlands Office

Received

JUN 3 0 2022

J&D CIVIL ENGINEERS, LLC

401 RAVENELLE ROAD N. GROSVENORDALE, CT 06255

860-923-2920 **DESIGNED: JJB REVISIONS:**

CHECKED: DRB

DATE: JUNE 27, 2022 JOB NO: 22142 SCALE: AS NOTED SHEET: 4 OF 4

Agenda Item E.b) 4. New Applications

IWA22020, Lavallee Construction LLC, 0 Donovan Dr. (Assessor's map 3, block 80, lot 2D), filling 690 sq ft of wetlands and work in the 100-foot upland review area for the construction to 2 single family homes with wells & septic systems. Note: proposal involves a resubdivision splitting the lot into 2 lots; site walk conducted on 3/12/22.

DUA 22020 Original

TOWN OF THOMPSON, CT.

J & D CIVIL ENGINEERS, LLC

401 Ravenelle Road N. Grosvenordale, CT 06255 www.jdcivilengineers.com (860) 923-2920

June 27, 2022

Thompson IWWC 815 Riverside Drive North Grosvenordale, CT 06255 Received

JUN 3 0 2022

Thompson Wetlands Office

Re:

Green Valley View Estates Subdivision Resubdivision of Lot 2D (developer's lot 1) Job No: 06137/17206/20246/22142

Dear Members:

This subdivision was approved by the IWWC on October 9, 2007. The proposal consisted of a 31 lot subdivision on 67 acres of land adjacent to the Quinebaug River. Approximately 22 acres, or approximately 33%, is open space and has been deeded to the town. Within the open space, there is an approximately 18 acre conservation easement preserving the important Quinebaug River riparian corridor.

The owner is proposing to resubdivide Lot 2D into 2 lots, depicted on the plan as 2D-North and 2D South. There are no changes to the approved septic system located on lot 2D North. The septic system for lot 2D south is fully designed. Therefore the following documents are being submitted:

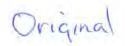
- 2 copies of an application to conduct a regulated activity
- 2 full size sets of plans by J & D Civil Engineers dated June 27, 2022
- 2 copies of excerpts from the original wetland delineation report dated August 28, 2007
- 2 copies of a letter from Margaret Washburn dated April 11, 2022, addressing wetland "H" on Lot 2D South (previously called lot 1B)
- 2 copies of the storm water narrative
- 2 copies of abutters

We hope that the Commission will accept the application at their July meeting so that decisions could potentially be made at the August meeting. Please contact me if you have any questions or require additional information.

Very Truly Yours,

J & D Civil Engineers, LLC

Janet J. Blanchette, PE



PERMIT APPLICATION

TO CONDUCT A REGULATED ACTIVITY

Town of Thompson

INLAND WETLANDS COMMISSION 815 RIVERSIDE DRIVE NORTH GROSVENORDALE, CT 06255

Instructions:

All applicants must complete this application for preliminary review. The Commission will notify the applicant of any additional information that may be required and will schedule a public hearing if necessary. In addition to the information supplied herein, the applicant may submit other supporting facts or documents which may assist the Commission in its evaluation of the proposal. In order to streamline the application review process, it is recommended that all applications containing significant impact to the wetlands be submitted to the Thompson Conservation Commission for review prior to submission to the regulatory commissions.

Two (2) copies of the completed application and two (2) copies of all the additional attached documents (site plan, etc.) must be submitted to the Town Clerk. State Statute provides that you may submit an application up to three (3) business days prior to the next regularly scheduled meeting, which means by the close of business hours on the Wednesday before a regular meeting date. The applicant is advised to read Sections 7 and 8 of the Regulations for further information regarding application requirements and procedures. THE APPLICANT IS FURTHER ADVISED THAT A BUFFER/SETBACK OF 100 FEET FROM A WETLAND OR WATERCOURSE IS REQUIRED, AND A BUFFER/SETBACK OF 200 FEET FROM THE TEN (10) ESPECIALLY NOTEWORTHY WETLANDS AND WATERCOURSES IDENTIFIED IN THE TOWN OF THOMPSON INLAND WETLAND INVENTORY PREPARED BY NORTHEASTERN CONNECTICUT REGIONAL PLANNING AGENCY 1980 PAGES 9, 14 AND 15 IS REQUIRED. See Section 6 of the Regulations for further information regarding activities.

NO PERMIT SHALL BE TRANSFERRED WITHOUT PERMISSION OF THE AGENCY.

WE MUST HAVE THE FOLLOWING INFORMATION TO PROCESS YOUR APPLICATION:

- Directions to the property from the Thompson Town Hall
- Location of Utility Pole nearest your property
 - *Pole Number *Location of property in reference to Pole (side of street)
- Locations of proposed house, septic test pits, well and driveway must be staked and labeled on site (These requirements must be LEGIBLY PRINTED on your MAPS at the time of application, but NOT in the area of the map details. Use outside edge of map for this information. Thank you.)

FAILURE TO HAVE THE ABOVE INFORMATION WILL POSTPONE PROCESSING OF YOUR APPLICATION

FEE SCHEDULE:

(Additional \$60.00 fee to State as per Public Act 09-03, Section 396)

- Complex Application Fee.....Applicants will be billed for professional review as needed, see regulations booklet Section 18.5

For: Conceptual Approval of Subdivisions use "Subdivision Review Application"

Please complete the following application information.

	If you need assistance, contact the IWWC business office at 860- 923-1852 Fax 860-923-9897
Da	ite
1)	Name of Applicant LAUALLEE CONSTRUCTION, LLC
	Home Address 83 RICH RP, N. GROS, CT 66255
	Home Tele & HrsBusiness Tele & Hrs_508-728-6628
	Business Address 5 AME
2)	Applicant's interest in the Property:Owner Other
	INLAND WETLANDS APPROVALS CAN BE GRANTED TO PROPERTY OWNER ONLY. No permit shall be assigned or transferred without written permission of the Commission.
3)	Name of Property Owner (if not applicant)
	Home Address
	Business Address
	Home Tele & Hrs Business Tele & Hrs
4)	Geographical Location of the Property (site plan to include utility pole number nearest property or other identifying landmarks) Pole # and Location
5)	The property to be affected by the proposed activity contains:
	Soil Types
6)	Purpose and Description of the Activity for which Approval is requested:
	a. Give a complete description of the proposed activity CONSTRUCTION OF
	2 HOUSES, DRIVEWAYS, WELLS & SEPTIC
	STSTEMS. LOT 2D-SOUTH INVOLVES FILLING OF WETLAND "H"
	WETLAND 'H' If the above activity involves deposition or removal of material, what is the quantity? 690 SF FILLES

	b.	Submit a Site Plan, drawn to scale, with the certification of the preparing Surveyor and/or Engineer including:
	3	1-Locus map at approx. 1" = 1000'
	V	2-Location of property, with boundaries defined and utility pole # near property and any other √identifying landmarks.
	e	3-Location of wetlands and /or watercourses. A wetland delineation in the field must be marked with numbered wetlands flags by a certified soil scientist and located on the map/site plan. Site plan shall bear the soil scientist's original signature.
	V	4-Soil types on the property.
NA		5-Flood Hazard area classification and delineation with base flood elevations.
	o ·	6-(a)Location of the proposed activity (i.e. house, septic, well or other areas to be disturbed). (b)Location of perc tests and soil test holes. (c)Copy of NDDH approval to construct or repair subsurface sewage disposal system.
	v/	
		7-Nature and volume of the material to be placed, removed, or transferred.
		8-Topographical contours, proposed and existing.
	-	9-Location and supporting data for proposed drainage.
	V	10-Date, scale (recommend 1"=40") and North arrow.
	V	11-Subdivisions must be A-2 Surveys and have Certified Soil Scientist's original signature on face sheet.
		12-Proposed limits of clearing/disturbance and location of stockpiles during construction.
		13-Location of proposed Erosion and Sedimentation controls and other management practices which may be considered as a condition of issuing a permit for the proposed regulated activity. The erosion and sedimentation control provisions must comply with the most current DEP edition of the <i>Connecticut Guidelines for Soil Erosion and Sedimentation Control</i> and be so noted on the plans.
		14 -Location of proposed Stormwater treatment design on the site plan must comply with the most current CT DEP edition of the <i>Connecticut Stormwater Quality Manual</i> and be so noted on the plans. It is strongly recommended that low impact development techniques, stormwater management techniques that are designed to approximate the pre-development site hydrology, be utilized in the stormwater system design wherever practical and possible.
N/A		15-Location of proposed mitigation or wetland enhancement measures which may be considered as a condition of issuing a permit for the proposed regulated activity.
		16-Timing and description of phases of activities, installation of sediment and stormwater control measures and temporary and permanent stabilization methods.
	C.	Explain whatever measures you propose to lessen or to compensate for the impacts to the wetlands or watercourse(s) ROOF FUNDER & FOUNDATION DRAIN & FRONT YARD GRADED TO PROMOTE INFILTRATION INTO GRAVEUY
		SOILS
	d.	Have any alternatives been considered? YES, NO DEVECOPMENT If yes, explain why this proposal was chosen THE WETLAND PROPOSED TO BE
		FILLED WAS CHEATED BY HISTORIC GRAVEL MINING ! IS SMALL (690 SF) AND OF LIMITED FUNCTION EVALUE.

7) Is any portion of this property located within 500' of the boundary of an adjoining municipality
If yes, Applicant is required to give written notice of the application by certified mail, return receipt requested, to the adjacent municipal wetlands agency on the same day of filing this permit application with the Thompson Inland Wetlands & Watercourses Commission. Documentation of notice shall be provided to the Commission.
8) Is any portion of this property located within the watershed of a water company as defined in section 16-1 of the Connecticut General Statutes? If yes, the Applicant is required to provide written notice of the application by certified mail, return receipt requested, to the water company on the same day of filing this permit application with the Thompson Inland Wetlands and Watercourses Commission. Documentation of such notice shall be provided to the Commission.
9) Does any portion of this property contain a Natural Diversity Data Base (NDDB) area of concern as defined on the most updated map of Federal and State Listed Species and Significant Natural Communities, for Thompson, Connecticut, prepared by the Connecticut Department of Environmental Protection? If yes, the Applicant must contact the CT DEP for information regarding the State or Federal Listed Species of Concern.
10) Names and Addresses of Abutters:
SEE ATTACHED
11) Estimated start date OCTOBER, 2022
Estimated date of completion (all disturbed areas are stabilized) MAY 2023
12) The undersigned hereby consents to necessary and proper inspections of the above mentioned property by the Agents of the Town of Thompson Inland Wetlands Commission, at reasonable times, both before and after the approval in question has been granted, including site walks by Commission members and staff for the purpose of understanding existing site conditions, which may be necessary in order to render a decision on this application.
The undersigned swears that the information supplied in this completed application is accurate to the best of her/his knowledge and belief.
ABSOLUTELY NO WORK IS TO BEGIN UNTIL ALL NECESSARY APPROVALS ARE OBTAINED.
I understand by signing this application that it is my responsibility to provide all the information as requested. I understand that the commission is unable to act upon an incomplete application. G-28-22 Signature of Applicant Date
Consent of Landowner if other than applicant Date

LOT 2D ABUTTERS

Account Ni Site Address		Site Address	Owner Name	Owner Address	Owner City	Owner St: Owner Zip		
	3-80-2-C	48 OLD TURNPIKE	CURTIS STEVEN L	48 OLD TURNPIKE	QUINEBAUG	CT	06262	
	3-80-4	5 CAROL AVE	MARCIANO JOSEPH A	5 CAROL AVE	QUINEBAUG	CT	06262	
	3-80-5	7 CAROL AVE	MEAD EDWARD M JR + CANDICE	18 MUROLO RD	N GROSVENORDALE	CT	06255-1814	
	3-80-6	8 CAROL AVE	SHIPPEE ROBERT J + JUDY E	P O BOX 294	QUINEBAUG	CT	06262	
	3-80-9	9 DONOVAN DR	LANGLOIS JOHN E + TRICIA N	P O BOX 483	QUINEBAUG	CT	06262	
	3-80-9-A	0 DONOVAN DR	LAVALLEE CONSTRUCTION LLC	83 RICH RD	N GROSVENORDALE	CT	06255	
	3-80-12-D	68 OLD TURNPIKE	MATEO GABRIEL E + DAVINO SAN	2846 N MAIN ST	WATERBURY	CT	06704-1211	
	3-80-2-AK	0 DONOVAN DR	TOWN OF THOMPSON	P O BOX 899	N GROSVENORDALE	CT	06255-0899	
	3-80-2-AJ	0 DONOVAN DR	THOMPSON TOWN OF	815 RIVERSIDE DR	N GROSVENORDALE	CT	06255	
	3-80-2-AI	0 DONOVAN DR	THOMPSON TOWN OF	815 RIVERSIDE DRI	N GROSVENORDALE	CT	06255	
	3-80-2-E	98 DONOVAN DR	PEREIRA RICARDO +	98 DONOVAN DR	QUINEBAUG	CT	06262	

WASHBURN WETLAND CONSULTING LLC

19 Wolf Den Road • Pomfret Center, Connecticut 06259-2022 Telephone (860) 928-6728 • Fax (860) 963-1999

Janet Blanchette
J & D Civil Engineers
401 Ravenelle Road
North Grosvenordale, CT
06255

August 28, 2007

Introduction

At your request, on October 13, 16, 17, 24, 25, 27, 30, 31, November 1 and 3, 2006, and January 10, 2007, I conducted a site investigation on the Whipple property on Route 197 in Quinebaug, Connecticut. The purpose of the site investigation was to delineate the wetlands on the subject property, as well as some wetlands on abutting properties. I also verified that a small isolated wetland does not function as a vernal pool on April 20, 2007 (see below for further details). At your request, I did not delineate most of the floodplain wetlands associated with the Quinebaug River.

The subject property is located on the edge of a glacial till ridge and deposits of ice-contact glacial outwash. A portion of the floodplain of the Quinebaug River is located on the subject property. The soils on the subject property were extensively disturbed in the past during the gravel mining process.

Wetlands on the Subject Property

The wetlands were delineated using consecutively numbered lengths of blue surveyors' ribbon. The wetland flags series are listed below. Please refer to the enclosed site sketches for further details. Please note that the site sketches are not to scale.

WF1 - WF12. Near northwest property boundary. Intermittent watercourse shown on U.S.G.S. topographic map, plus associated wooded shrub swamp. The main part of this stream flows into Massachusetts.

WF13 - WF23. Connect WF13 to WF1. Same wetland system as WF1- WF12.

WF24 – WF44. Unmapped intermittent stream flowing through the central portion of the subject property from west toward the northeast. Includes associated wooded shrub swamp.

WF45 – WF87. Same wetland system as WF24 – WF44.

WF88 – WF109. Connect WF109 to WF24. Same wetland system as WF24 – WF44.

L AUALLEE LANE

1

В

A

WF110 – WF127. Unmapped intermittent stream flowing southeast toward the floodplain. Includes associated wooded shrub swamp.

WF1A - WF12A. Same wetland system as WF110 - WF127.

WF13A - WF15A. Connect WF13A to WF1A. Connect WF15A to WF127. Please note that an interrupted channel was observed connecting this wetland system to a wetland containing cattails on the abutting property to the west. However, this interrupted channel, which appears, disappears and reappears between the western boundary and wetland flag series WF13A - WF15A, does not meet the criteria for status as an intermittent watercourse. The other intermittent watercourses on the subject property were delineated under Part II of the General Provisions of the Connecticut Department of Environmental Protection State Policy, whereby "Intermittent watercourses shall be delineated by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (A) Evidence of scour or deposits of recent alluvium or detritus, (B) the presence of standing or flowing water for a duration longer than a particular storm incident, and (C) the presence of hydrophytic vegetation." In the interrupted channel, which appears, disappears and reappears between the western boundary and wetland flag series WF13A - WF15A, only characteristic (A) was observed on the steepest part of the till ridge. Characteristics (B) and (C) were not observed. No wetlands soils were observed associated with the interrupted channel which appears, disappears and reappears between the western boundary and wetland flag series WF13A - WF15A.

- D WF128 WF 133. Connect WF128 to WF133. Isolated wetland near an old well. In this area the soils have been disturbed by heavy equipment.
- E WF134 WF148. Connect WF134 to WF148. Isolated wetland containing an old well. In this area the soils have been disturbed by heavy equipment.
- WF149 WF195. Connect WF149 to WF195. Isolated wetland. Probably functions as a vernal pool.
- WF196 WF211. Connect WF196 to WF211. (Do not connect WF197 to WF198. Please refer to series WF320 WF327 and WF328 WF335 below for further details.) A vernal pool. Fish predators are absent. The water in this vernal pool may overflow at extreme peaks of high precipitation, flow through a ditch and into a culvert under Route 197.

00T 200' 0F

WF212 - WF216. Isolated wetland.

WF217 – WF234. This wetland system has characteristics of a shallow pond, wet meadow, a marsh, a bog, and a wooded shrub swamp. Functions as a vernal pool. Wood frogs were calling from these wetlands on April 20, 2007. The wetland continues beyond

NOT WITTHY OF

WF243, but I did not think I was on the subject property any more so I stopped the flags at WF234.

WF235 – WF243. Same wetland system as WF217 – WF234. The flags end beside Route 197 at the end of a stone-lined drainage ditch.

WF244 – WF249. Do not connect WF249 to WF250. Isolated wetland behind last house on the left on Carol Ave. Water appears to flow off the subject property between WF249 and WF250. Water flowing off the subject property at this point appears to percolate through the sandy soil on the abutting property.

WF250 - WF254. Connect WF254 to WF244. Same wetland system as WF244 - WF249.

- WF255 WF273. Connect WF255 to WF273. Isolated wooded shrub swamp wetland formed by gravel mining process.
 - WF274 WF295. Connect WF274 to WF295. Intermittent watercourse and associated wet meadow and wooded shrub swamp. Water pools in the existing cart path, flows down a very steep slope to the south, and percolates into the soil near the base of the steep slope.
 - WF296 WF300. Connect WF296 to WF300. Small isolated wetland formed during gravel mining process. Site investigation verified that this small isolated wetland does not function as a vernal pool on April 20, 2007.
 - WF301 WF320. Connect WF301 to WF320. Isolated wooded shrub swamp.
 - WF321 WF327. Connect WF327 to WF197. Drainage ditch beside Route 197.

WF328-WF335. Connect WF335 to WF198. Do not connect WF197 to WF198. Same drainage ditch as WF320 - WF327.

References used in the soil identification process included the *Munsell Color Chart*, *Soil Survey of Windham County Connecticut* (USDA Soil Conservation Service, December 1981), *Indicators for Identifying Hydric Soils in New England* (New England Interstate Water Pollution Control Commission, Third Edition, April, 2004), a surveyor's map you provided, a satellite map from the internet, and the USGS topographic map for the subject property.

Soil Types on the Subject Property

According to the Soil Survey of Windham County Connecticut, the wetlands soils on the subject property associated with the floodplain of the Quinebaug River consist of Rippowam fine sandy loam. Also, according to the Soil Survey, the wetlands soils associated with wetland flag series WF149 – WF195, WF196 – WF211, WF212 – WF216, and WF217 – WF243 consist of Adrian and Palms mucks.

Many of the wetlands on the subject property are not mapped in the Soil Survey. The wetlands soils associated with these wetlands consist of a complex of Ridgebury, Leicester, and Whitman extremely stony fine sandy loams, and/or Udorthents (manmade soils consisting of fill created during the gravel mining process.

Wetlands on Abutting Property

On January 10, 2007, I conducted a site investigation on property abutting the Whipple site on Route 197 in Quinebaug, Connecticut. The purpose of the site investigation was to delineate the wetlands the abutting property. The site investigation was limited to the area you indicated on a sketch that you provided. The only wetlands that were observed were associated with the Quinebaug River. The subject property is located on deposits of ice-contact glacial outwash.

The wetlands were delineated using consecutively numbered lengths of blue surveyors' ribbon. There is one series of wetland flags, WF1R – WF17R. Please refer to the attached site sketch and U.S.G.S. topographic map for further details.

References used in the soil identification process included the Munsell Color Chart, Soil Survey of Windham County Connecticut (USDA Soil Conservation Service, December 1981), Indicators for Identifying Hydric Soils in New England (New England Interstate Water Pollution Control Commission, Second Edition, 1998), a surveyor's map you provided, and the USGS topographic map for the subject property.

According to Map 2 of the Soil Survey of Windham County Connecticut, the wetlands soils on the subject property associated with the floodplain of the Quinebaug River consist of Rippowam fine sandy loam and Suncook loamy fine sand.

Vernal Pool Verification

On April 20, 2007, at your request, I investigated the small isolated wetland created during the gravel mining process that was delineated in the fall of 2006 with wetland flags numbered WF296 – WF300, to see if it was functioning as a vernal pool.

Using a kick net, I checked this isolated depression and no obligate vernal pool species (wood frog, spotted salamander, fairy shrimp) were observed. No egg masses of any amphibian species were observed. No wood frogs were heard calling from this depression.

It was the height of the season for wood frogs to mate on April 20, 2007. Many wood frogs were calling in vernal pools elsewhere on the site. If the small isolated depression delineated with wetland flags WF296 – WF300 were functioning as a vernal pool, on April 20, 2007, they and/or their egg masses would have been present.

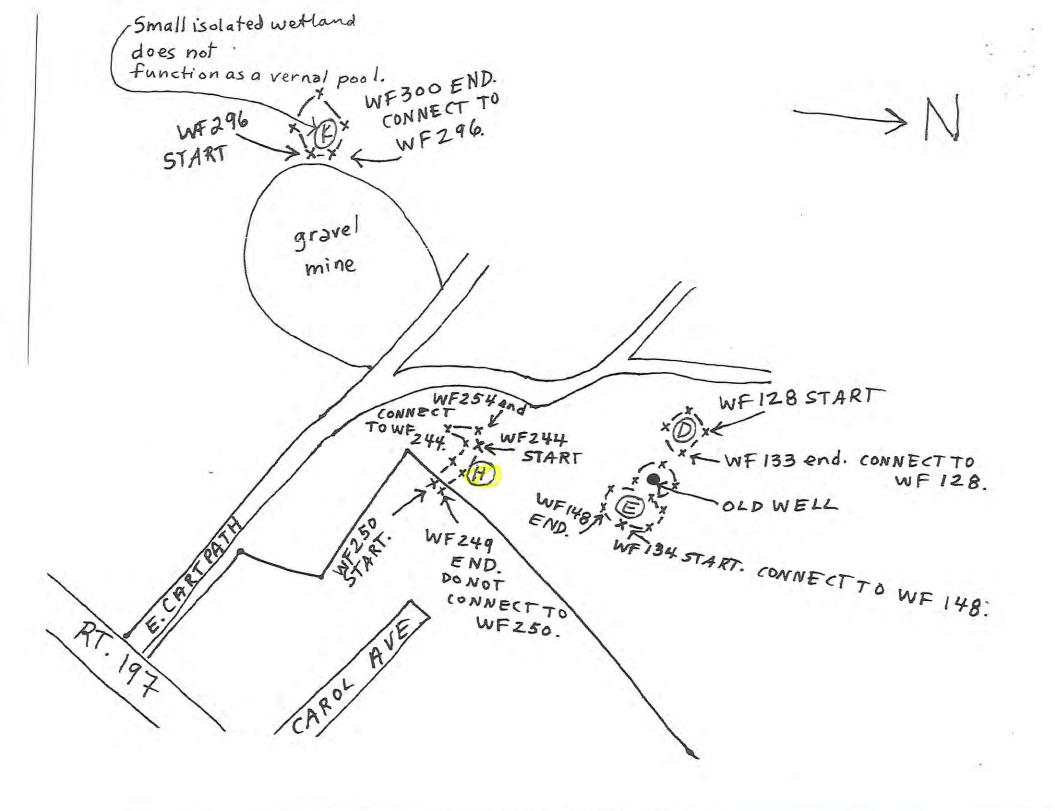
Clearly, the isolated depression delineated with wetland flags numbered WF296 – WF300 does not function as a vernal pool.

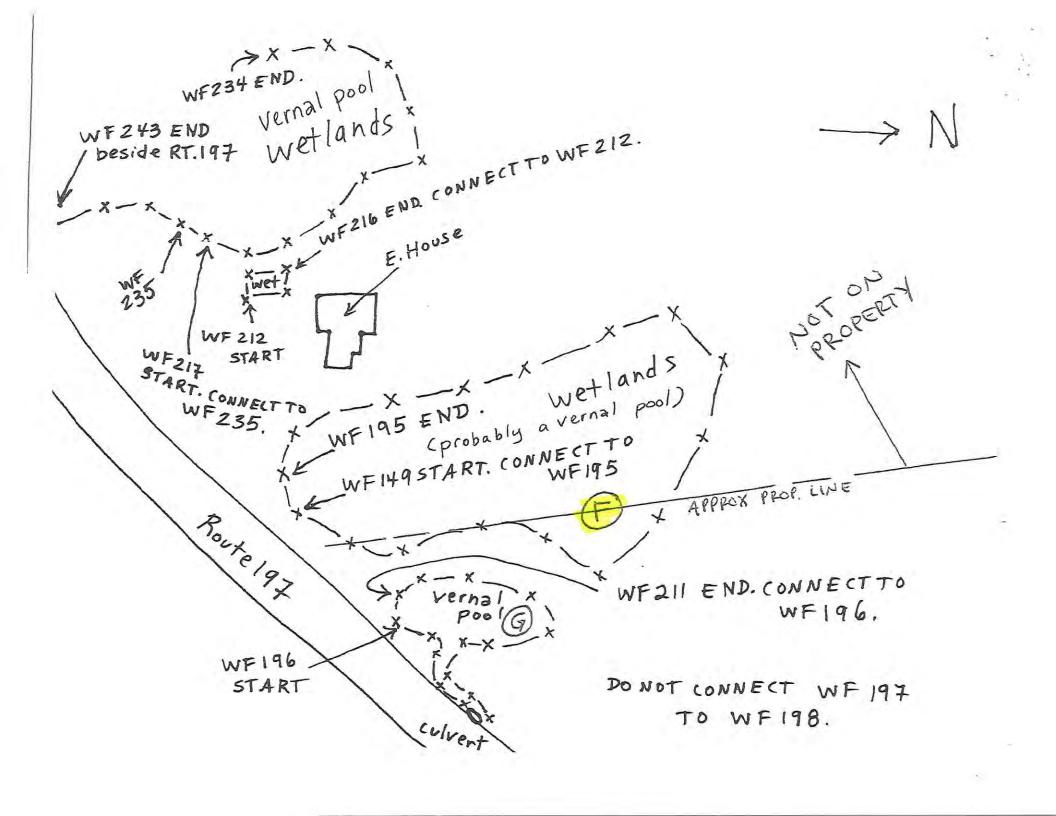
It has been a pleasure working with you on this site. Please feel free to call me if I may be of further assistance.

Sincerely,

Margaret Washburn, M. S. Margaret Washburn, M.S.

Registered Professional Soil Scientist





WF274 START . P 295 END . Steep Slope LEX3 Jend. CONNEGT TO WE ZSS. Wet 295 87 80 WF255 START JAROL AVE. THE TONE IN W. WX

WASHBURN WETLAND CONSULTING LLC

19 Wolf Den Road • Pomfret Center, Connecticut 06259-2022 Telephone (860) 428-8424 • washburnwetland@gmail.com

Janet Blanchette
J & D Civil Engineers
401 Ravenelle Road
North Grosvenordale, CT 06255

April 11, 2022

Dear Janet,

On April 9, 2022, at your request, I conducted a site investigation on Lot 1B on Donovan Drive in Thompson, CT. The purpose of the site investigation was to determine whether a wetland shown as "Wetland H" functions as a vernal pool. Wetland H is shown on the Conceptual Resubdivision Plan prepared for Lavallee Construction, Lot 1 Donovan Drive, Thompson CT, dated March 7, 2022. The soils surrounding this isolated wetland have been extensively disturbed in the past, apparently during the mining of earth products.

In your presence, I entered the standing water in Wetland H with a net and made about 6 sweeps in different parts of the depression. No fairy shrimp, amphibians or egg masses were observed. No vernal pool obligates were observed. Large quantities of algae and some winged insects were observed.

Spring peepers and American toads were heard chorusing in a nearby wetland across Donovan Drive, to the south, indicating that it was late enough in the spring for vernal pool obligates such as spotted salamanders and wood frogs to have laid eggs, if they had been present in Wetland H.

In conclusion, Wetland H does not function as a vernal pool.

It has been a pleasure working for you on this site. Please feel free to call me if I may be of further assistance.

Sincerely,

Margaret Washburn, M.S.

Registered Professional Soil Scientist

Margaret Washburn, M.S.

$J \& D^{\text{CIVIL}}_{\text{ENGINEERS, LLC}}$

401 Ravenelle Road N. Grosvenordale, CT 06255 www.jdcivilengineers.com (860) 923-2920

Stormwater Runoff Narrative – Lavallee Resubdivision Donovan Drive – Thompson, CT

Original Subdivision Lot 1, Assessors Lot 2D June 29, 2022

This property is part of the Donovan Drive subdivision near the Massachusetts border under construction by Lavallee Construction. The project site is approximately 2 acres in size with frontage on two different sections of Donovan Drive. Previously one house lot was approved on the property and the proposal is for the construction of an additional house lot. The lots will each be about 1 acre in size. Years ago, was gravel removed and the lot was left in a roughly graded condition with depressions and mounds. The NRCS classifies the soil on the lot as Hinkley Loamy Sand which is a well-drained soil type. The test pits recorded by the sanitarian at NDDH confirms the gravelly nature of the soil on this property.

The two proposed lots are referred to on the plans as 2D-North and 2D-South. The land generally slopes from northwest to southeast. Lot 2D-North contains the site development features that were previously approved in the original subdivision and the drainage system on Donovan Drive was designed to handle runoff from this lot in its developed condition.

The site development on Lot 2D-South was not part of the original subdivision but this lot does not drain onto Donovan Drive because it sits lower than the road. Under existing conditions land uphill (northwesterly) drains toward Lot 2D and runoff infiltrates into the ground. The proposed grading plan will help ensure that this pattern continues under proposed conditions. A depression has been graded into the front yard upslope of the driveway to help facilitate infiltration into the underlying gravel. Impervious area was also minimized since a modest ranch house with a garage under is proposed.

The addition of one proposed house lot on the property will not affect the runoff pattern in the watershed or significantly increase the flow. Runoff from the project will not adversely affect neighboring residential properties or the Town's stormwater drainage infrastructure.

2 LOT RESUBDIVISION PLAN MAP 3 BLOCK 80 LOT 2D (DEVELOPER'S LOT 1) DONOVAN DRIVE - THOMPSON, CT

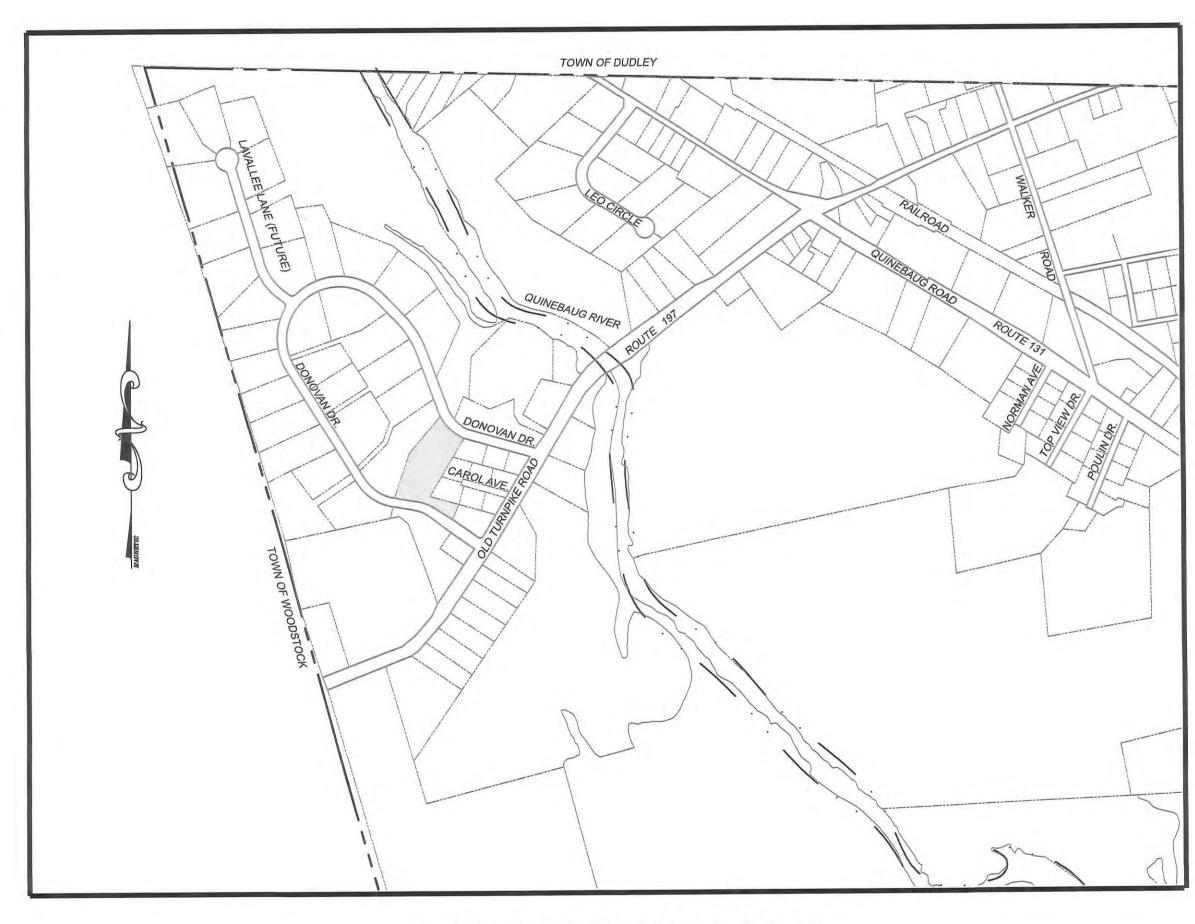
DATED: JUNE 27, 2022

OWNER AND APPLICANT:

LAVALLEE CONSTRUCTION LLC 83 RICH ROAD NORTH GROSVENORDALE, CT 06255

INDEX OF DRAWINGS

- 1 COVER
- 2 RESUBDIVISION PLAN
- 3 SITE DEVELOPMENT PLAN NORTH
- 4 SITE DEVELOPMENT PLAN SOUTH



LOCATION MAP

1" = 500'

ZONE: RURAL RESIDENTIAL AGRICULTURAL DISTRICT (RRAD)
USE: RESIDENTIAL

ITEM	REQUIRED	LOT 2D-NORTH	LOT 2D-SOUTH
FRONTAGE	150'	173.27'	328.23'
LOT COVERAGE	<50%	8.5%	7.7%
FRONT SETBACK	40'	122'	63'
SIDE SETBACK	20'	54'	48'
REAR SETBACK	20'	64'	110'
LOT SIZE	40,000 SF	41,206 SF	48,224 SF

Received

JUN 3 0 2022

Thompson Wetlands Office

APPROVED
INLAND WETLANDS COMMISSION

CHAIRMAN

DATE

TOWN OF THOMPSON
RECEIVED FOR RECORDING

TOWN CLERK

DATE

TOWN CLERK

DATE

APPROVED
PLANNING AND ZONING COMMISSION

CHAIRMAN

DATE

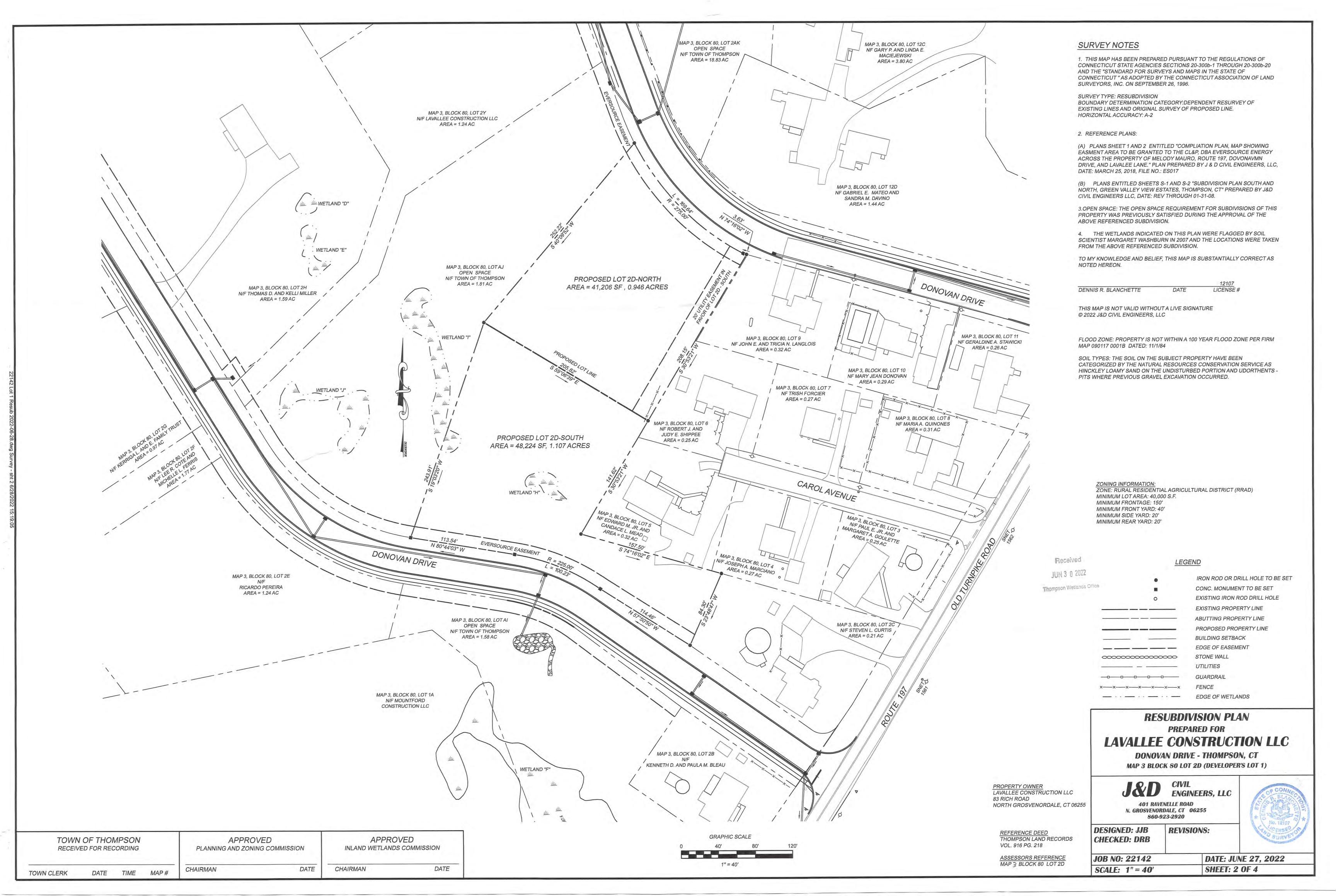
DATE

DATE OF PZC APPROVAL

DATE OF EXPIRATION

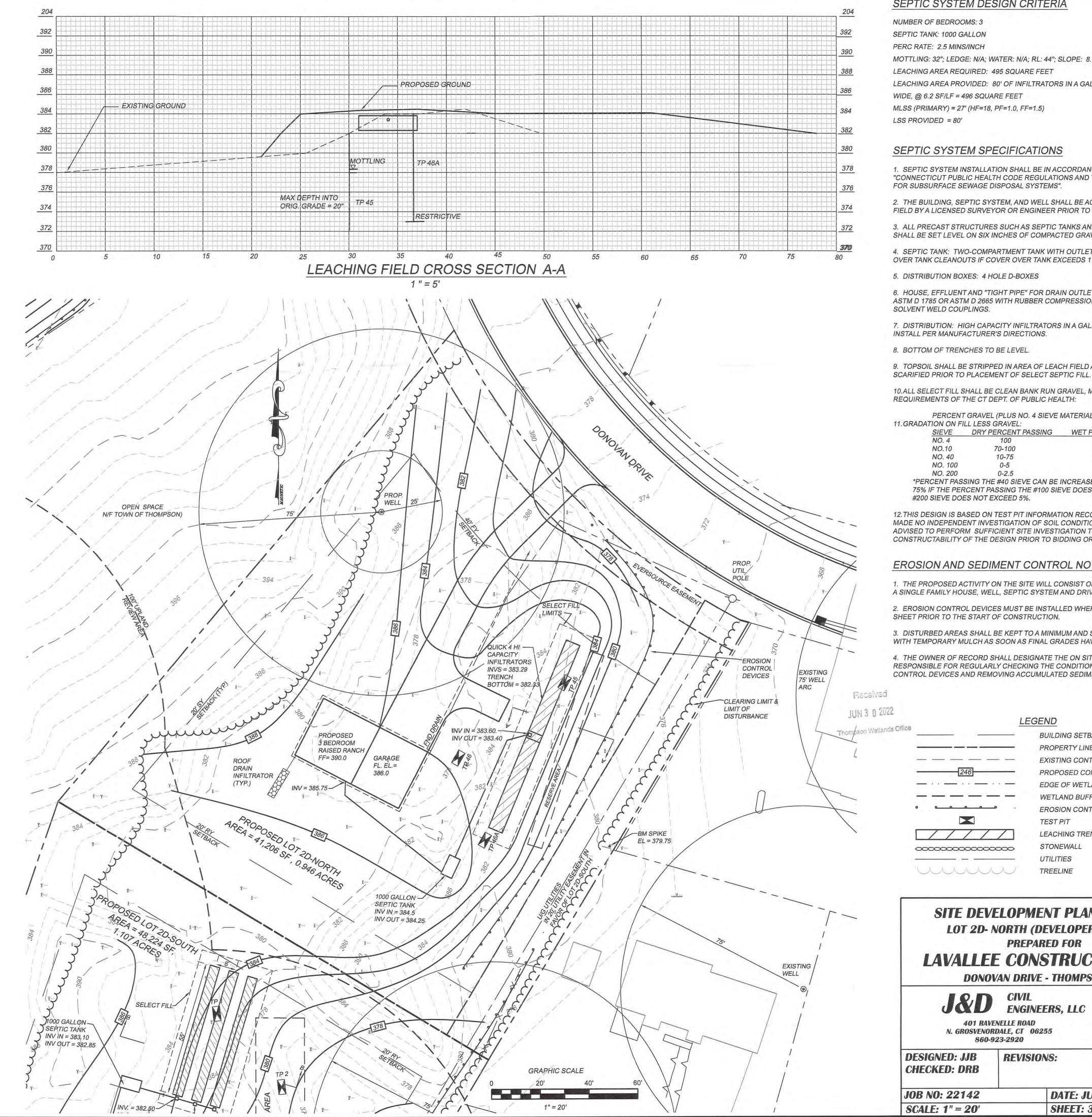
J & D CIVIL ENGINEERS, LLC 401 RAVENELLE ROAD THOMPSON, CT 06255 JDCIVILENGINEERS.COM

860-923-2920



TEST PIT & PERC TEST RESULTS TEST PIT NO. 46 A 0-10" GRAVELLY TOPSOIL OBSERVED BY MAUREEN MARCOUX AND 10-19" FILL ROOTS LYNETTE SWANSON 19-28" ORIGINAL TOPSOIL DATE: JUNE 6-11, 2007 28-50" GRAVELLY SANDY LOAM, ROOTS TEST PIT NO. 45 50-91" COARSE SANDS AND GRAVEL 91-132" WASHED COARSE SANDS 0-12" TOPSOIL WITH ORGANICS AND GRAVEL 12-44" REDDISH BROWN FINE SANDY LOAM WITH GRAVEL MOTTLING: N/A 44-119" COARSE LOAMY SAND AND RESTRICTIVE LAYER: 91" GRAVEL, WATER WORKED LEDGE: N/A WATER: N/A MOTTLING: 44" HOLE W (TP 46 A) RESTRICTIVE LAYER: 44" DEPTH = 17" LEDGE: N/A PERC. RATE = 2.5 MIN/INCH WATER: N/A READING TEST PIT NO. 46 10:53 10:55 0-19" DISTURBED SOIL, COARSE 9.25" 10:57 LOAMY SAND, GRAVEL, 11:00 11.25" POCKETS VFSL 11:05 13.25" 19-145" DARK GRAY COMPACT 11:10 15.25 SANDY PAN, MOTTLED 11:12 DRY MOTTLING: 19" RESTRICTIVE LAYER: 19" LEDGE: N/A SELF SUPPORTING FILTER FABRIC 1.25" X 1.25" MIN.-WITH AOS = .6MM - .9MM HARDWOOD STAKE MAX. 10' APART COMPACTED BACKFILL -6" x 6" BACKFILLED TRENCH 6" OF GEOTEXTILE BURIED IN TRENCH NATIVE SOIL SILT FENCE INSTALLATION NOT TO SCALE — QUICK 4 HIGH CAPACITY CHAMBER -FILTER FABRIC 1" STONE AGGREGATE MEETING CONNDOT FORM 818 SPEC. M.01.01 FOR NO. 4 STONE INSTALL INFILTRATORS AS PER MANUFACTURERS' SPECIFICATIONS QUICK 4 HIGH CAPACITY GALLERY TRENCH SURVEY NOTES: 1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT "AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. PURPOSE: THE DESIGN OF AN ENGINEERED SEPTIC SYSTEM TYPE: GENERAL LOCATION HORIZONTAL ACCURACY: CLASS B TOPOGRAPHIC ACCURACY: CLASS T3 - CONTOURS ARE FROM AN AERIAL SURVEY IN 2006, SUPPLEMENTED BY ON THE GROUND FIELD SURVEY IN THE AREA OF THE SEPTIC SYSTEMS BY J & D CIVIL ENGINEERS IN 2020. PROPERTY LINES DO NOT EXPRESS A BOUNDARY OPINION 2. TEST PIT AND PERC TEST LOCATIONS HAVE BEEN COMPILED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. THIS INFORMATION IS TO BE CONSIDERED APPROXIMATE AND J&D CIVIL ENGINEERS DOES NOT TAKE RESPONSIBILITY FOR SUBSEQUENT ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THIS PLAN AS A RESULT. 3. REFERENCE PLAN: SUBDIVISION AND SITE PLANS TITLED "GREEN VALLEY VIEW ESTATES" THOMPSON, CT BY J & D CIVIL ENGINEERS ORIGINALLY APPROVED IN 2006 AND UPDATED IN 2018. TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. DENNIS R. BLANCHETTE LICENSE THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE

© 2022 J&D CIVIL ENGINEERS, LLC



SEPTIC SYSTEM DESIGN CRITERIA

NUMBER OF BEDROOMS: 3

MOTTLING: 32"; LEDGE: N/A; WATER: N/A; RL: 44"; SLOPE: 8.1-10%

LEACHING AREA REQUIRED: 495 SQUARE FEET

LEACHING AREA PROVIDED: 80' OF INFILTRATORS IN A GALLERY CONFIGURATION, 6'

MLSS (PRIMARY) = 27' (HF=18, PF=1.0, FF=1.5)

LSS PROVIDED = 80'

SEPTIC SYSTEM SPECIFICATIONS

- 1. SEPTIC SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE "CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS".
- 2. THE BUILDING, SEPTIC SYSTEM, AND WELL SHALL BE ACCURATELY STAKED IN THE FIELD BY A LICENSED SURVEYOR OR ENGINEER PRIOR TO CONSTRUCTION.
- 3. ALL PRECAST STRUCTURES SUCH AS SEPTIC TANKS AND DISTRIBUTION BOXES SHALL BE SET LEVEL ON SIX INCHES OF COMPACTED GRAVEL BASE.
- 4. SEPTIC TANK: TWO-COMPARTMENT TANK WITH OUTLET FILTER. INSTALL RISERS OVER TANK CLEANOUTS IF COVER OVER TANK EXCEEDS 1'.
- 5. DISTRIBUTION BOXES: 4 HOLE D-BOXES
- 6. HOUSE, EFFLUENT AND "TIGHT PIPE" FOR DRAIN OUTLETS: 4" PVC SCHEDULE 40, ASTM D 1785 OR ASTM D 2665 WITH RUBBER COMPRESSION GASKET ASTM D 3139 OR SOLVENT WELD COUPLINGS.
- 7. DISTRIBUTION: HIGH CAPACITY INFILTRATORS IN A GALLERY CONFIGURATION. INSTALL PER MANUFACTURER'S DIRECTIONS.
- 9. TOPSOIL SHALL BE STRIPPED IN AREA OF LEACH FIELD AND THE SUBSOIL

10.ALL SELECT FILL SHALL BE CLEAN BANK RUN GRAVEL, MEETING THE FOLLOWING REQUIREMENTS OF THE CT DEPT. OF PUBLIC HEALTH:

PERCENT GRAVEL (PLUS NO. 4 SIEVE MATERIAL) = 5%

DRY PERCENT PASSING WET PERCENT PASSING

NO.10 70-100 70-100 NO. 40 10-50* 10-75 NO. 100 0-20 NO. 200 0 - 2.5

*PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

12.THIS DESIGN IS BASED ON TEST PIT INFORMATION RECORDED BY NDDH. J & D HAS MADE NO INDEPENDENT INVESTIGATION OF SOIL CONDITIONS. THE CONTRACTOR IS ADVISED TO PERFORM SUFFICIENT SITE INVESTIGATION TO DETERMINE CONSTRUCTABILITY OF THE DESIGN PRIOR TO BIDDING OR COMMENCING WORK.

EROSION AND SEDIMENT CONTROL NOTES

- 1. THE PROPOSED ACTIVITY ON THE SITE WILL CONSIST OF THE CONSTRUCTION OF A SINGLE FAMILY HOUSE, WELL, SEPTIC SYSTEM AND DRIVEWAY.
- 2. EROSION CONTROL DEVICES MUST BE INSTALLED WHERE INDICATED ON THIS SHEET PRIOR TO THE START OF CONSTRUCTION.
- 3. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SEEDED OR STABILIZED
- WITH TEMPORARY MULCH AS SOON AS FINAL GRADES HAVE BEEN ATTAINED.

4. THE OWNER OF RECORD SHALL DESIGNATE THE ON SITE ENVIRONMENTAL AGENT RESPONSIBLE FOR REGULARLY CHECKING THE CONDITION OF THE EROSION CONTROL DEVICES AND REMOVING ACCUMULATED SEDIMENT.

LEGEND **BUILDING SETBACK LINE** PROPERTY LINE EXISTING CONTOUR LINE PROPOSED CONTOUR LINE EDGE OF WETLANDS WETLAND BUFFER/UPLAND REVIEW AREA **EROSION CONTROL DEVICES** TEST PIT

LEACHING TRENCH

STONEWALL UTILITIES TREELINE

NDDH FILE # 7001397

SITE DEVELOPMENT PLAN - NORTH **LOT 2D- NORTH (DEVELOPER'S LOT 1)** PREPARED FOR

LAVALLEE CONSTRUCTION LLC DONOVAN DRIVE - THOMPSON, CT

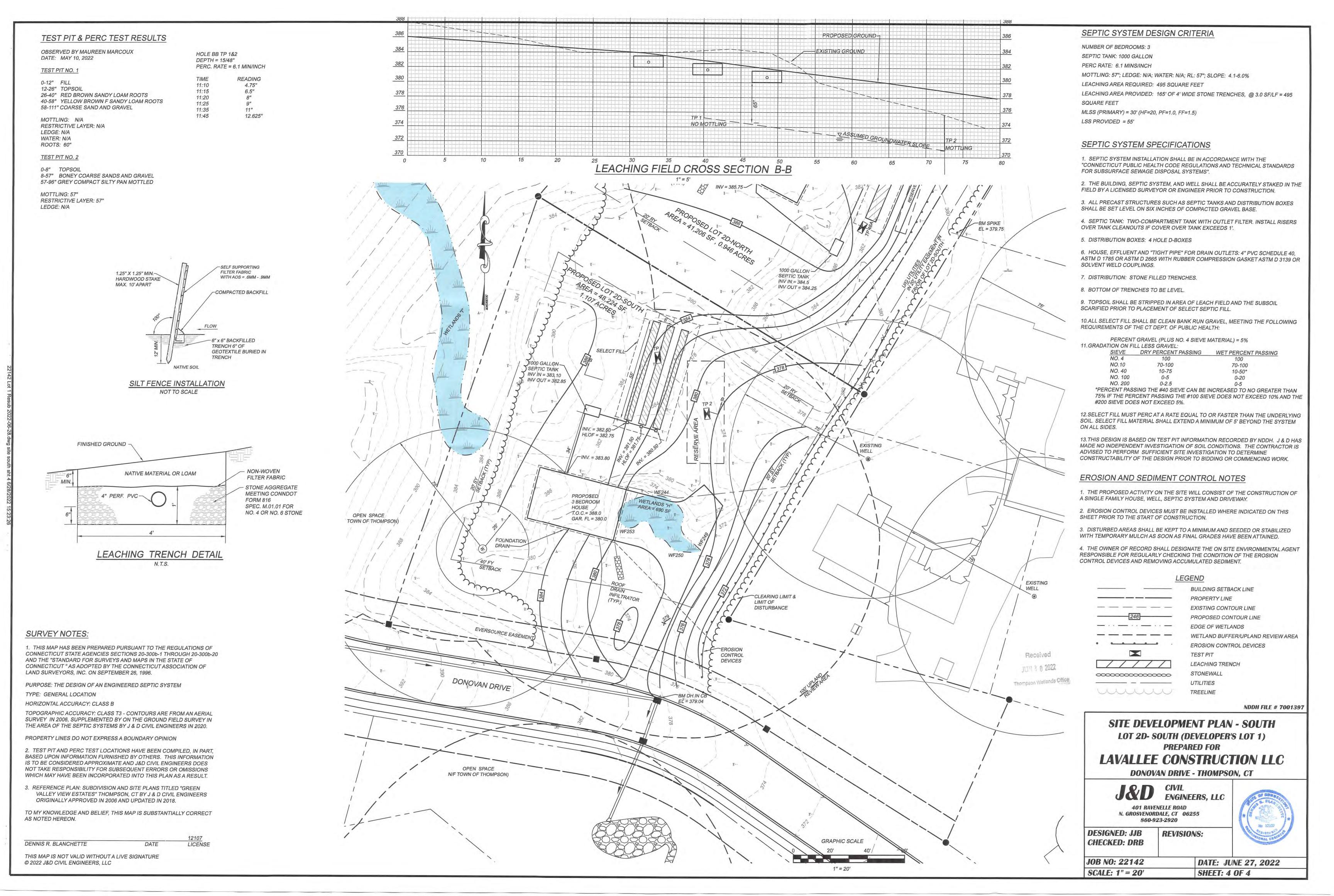
J&D CIVIL ENGINEERS, LLC

401 RAVENELLE ROAD N. GROSVENORDALE, CT 06255 860-923-2920

DESIGNED: JJB REVISIONS: CHECKED: DRB

JOB NO: 22142 **SCALE:** 1" = 20'

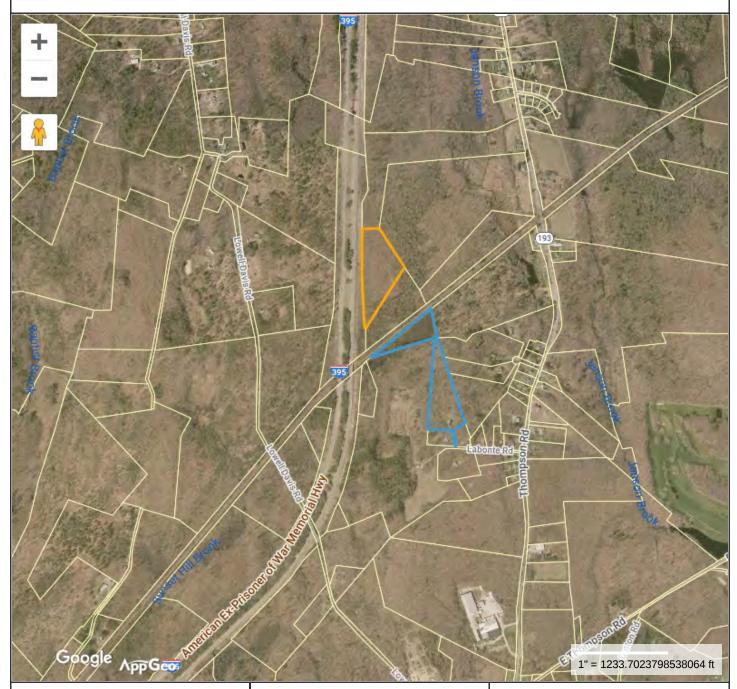
DATE: JUNE 27, 2022 SHEET: 3 OF 4



Agenda Item E.b) 5. New Applications

DEC22021, Gregg & Lauren Corso, 36 Labonte Rd. (Assessor's map 120, block 30, lot 7), timber harvest request as use permitted as of right, stamped received July 5, 2022.

Locus Map for Corso timber harvest (blue, not included future timber harvest orange)



Property Information

Property ID 3725 Location

36 LABONTE RD

Owner CORSO GREGG A + LAUREN



MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT

Town of Thompson, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 19, 2021 Data updated March 20, 2019

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

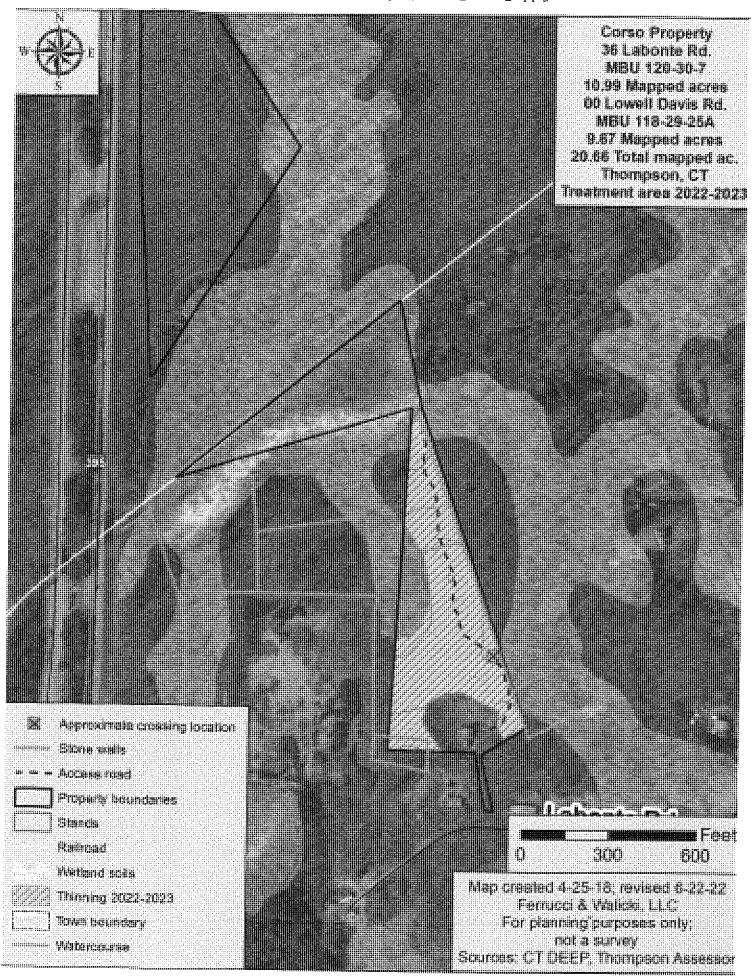
THOMPSON INLAND WETLANDS COMMISSION Request for Approval of Timber Harvest as Use Permitted as of Right

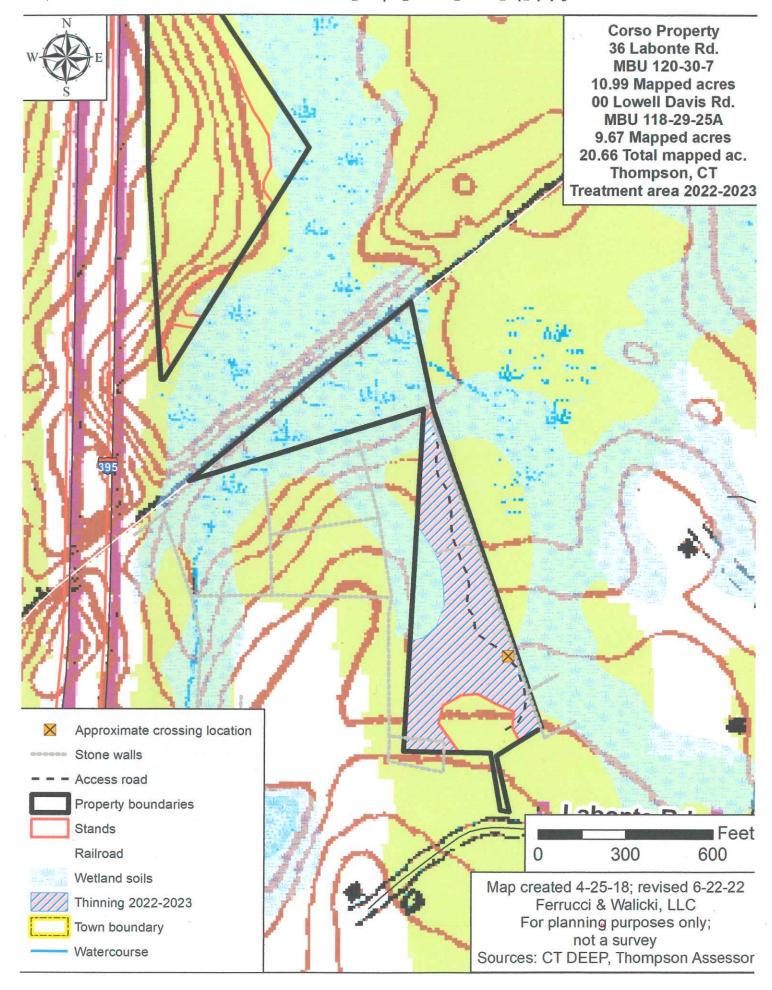
ID#DECOO	2
Receipt Date: July 6	2022

Certain activities associated with timber harvesting are a use permitted as of right pursuant to Section 22a-40(a) of the Connecticut General Statutes and Section 4.1 of the Inland Wetlands for the Town of Thompson. (For guidance see Connecticut Department of Environmental Protection's document entitled "Agriculture, Forestry and Wetlands Protection in Connecticut") This form constitutes the notification required by Section 4.4 of the Inland Wetlands and Watercourse Regulations of the Town of Thompson for such timber harvesting. Note: If the timber harvest covers multiple properties with different owners, then a separate request for approval must be filed for each of the different property owner(s).

Property Informa		ned USGS to	nogranhic n	nap and copy of assessor's	man – see inform	ation o	n mar	
on reverse side of this fo	om.)	iod obob to	pograpine n	rap and copy or assessor s	map – see miorii	iation C	ш шар)5
Landowner of Reco	ord: Grey	g and	Laure	n Corso	1			
Mailing Address: _	36 Labo	whe Ro	Thomas	161 0627		3		
Town: Thompson	CT			Zip: 0	6277	-		
Phone: (80) 470			_					
E-mail: <u>Corso. g</u> Total acreage of Pr	and rom							
Assessor's Ref.	Map	28.27 Block	Y -4	A 11				
ASSESSOI S REL	120	30	Lot 7	Address	0		_	
	118		_	36 Laborte Ro			-	
	118	29	25	O Cowell Das	ns Ruf			
December have design		7 7		2.11	1420			_
Property boundarie	s are marked	and can be	viewed in th	e field	Yes	X	No	П
prior to filing this f	lands within	100 feet of	the harvest a	rea been notified via first-c	lass mail Yes		No	×
prior to ming uns i	omr			*				
Harvest Informati	ion							
			4 10	75 1 15m 1		~		
This timber harvest h								
F D	heck one):	Fores	ster	OR	Forest Products	s Harve	ester	- 1
Forest Practitioner Cen	tificate #: F-	/20						_
Name: Eric Hanser		OT 00 15	-					
Address: 6 Way Rd.	Middletield	i, C1 0645	5					_
E-mail: eric@fwfo	resters.cor	n		- A				
Phone # (Business) 86	0.349.700	7	- '	(Cell)				
Harvester (if not la	ndowner):	Landown	er			(-		
Mailing Address:				The second second				
				Zin:		-0		
ruone. ()						-		
E-mail:								
Estimated starting	date of timbe	r harvesting	operations:	11 / 1 / 2022				
Estimated completi	on date of ha	rvesting ope	rations:	5 1 1 1 2026				
Total acreage of ha	rvest area:	5.5						
			ed and can b	be viewed in the field	Yes	X	No	П
Designation of tree	s to be harve	sted						
Trees to be had	rvested have	been marked	l with paint	at eye level and at ground l	evel Yes	M	No	
If marked,	then paint m	arking color	r(s) are Ora	ange - to be marked in	summer 2022			
Amount of forest p	roducts to be			volumes to be marked				
Received	ard feet	12	Cords	SCubic	teet		1	Tons

Timber Harvest Objective:	
Enhance vigor of residual trees, release edvance regeneration of desirable species, and encourage	∍ development of new size and age class of desirable regneration
Timber Harvest Treatment:	
Single tree and small group selection	
4	
Actions Being Performed on This Land	
(Check all that apply and locate on attached Harvest Area ma	p - see information below on maps.)
Crossings / Clearing	Erosion and Sedimentation Control Measures*
☐Temporary stream/drainage crossing	☐ Installation of water bars
Temporary wetlands crossing	☐ Grading
Removal of trees in wetlands	Seeding Seeding
Removal of trees in upland review area	Other (describe below)
Log landing area:	<u>Roads</u>
Anti-tracking pad	Are new roads, other than skid trails, to be constructed for
Curb cut	transport of logs or other activities associated with this
	harvest? Yes X No
*All erosion and sediment controls must comply with the 2002 Connecticut Guidelin	nes for Soil Erosion and Sediment Control as amended. See
http://www.ct.gov/dep/cwp/view.asp?A=2720&Q=325660 for info on vi	ewing copy
Describe in further detail as necessary: <u>See include</u>	d NRCS Dass Rel &
Stream crossing engineering plan	
	:
	·
773 - 0 11 - 1	1.000
The following maps are attached to this Request For Approva	
Copy of USGS topographic map with the pro	
Copy of Assessor's map with the property ou	
I imper Harvest Area map snowing outline of	f harvest area, skid road locations, log landing area, truck
access roads, inland wetlands, watercourses a	nd any crossings drawn to scale
The undersigned hereby swears that the information contain	ned in this application is true accurate and complete to the
best of my (our) knowledge and belief and that the timber ha	rea in the appacement is true, according and complete to the
specifications outlined in this Request for Approval of Timb	er Harvest
(N .///	of Aguar Pagos
Signature of Landowner:	Date: 6/21/2012_
	Daw. 47 241 - 44
Signature of Landowner: Type Name: Greggess	
	Date:
Print Name:	
Complete and Submit to: Office of the Thompson Inland Wetlands Commission A courtesy copy of this completed form should be sent to the Department of Environment of Environment of Environment of Environment of Environment	n, Thompson Town Hall, 815 Riverside Drive, N. Grosvenordale, CT 06255
06106-5127, Tel: (860)424-3630	nonnenear a corretion, Division of Porestry, 79 Eim Street, Hartford, CT
*** For Commissi	ion Use Only ***
Agency or Agent's Response:	·
	h
IWC Chair or Agent Signature:	Date:





Corso

Access Road & Stream Crossing TOWN OF THOMPSON, WINDHAM COUNTY, CONNECTICUT

DESIGN PROVIDED BY: UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

PROGRAM FUNDING: EQIP

INDEX

NRCS DESIGN PRACTICES: 560, 578

SHEET 1

COVER SHEET

JOB CLASSIFICATION: II

SHEET 2

CONSTRUCTION DETAILS

SHEET 3

EROSION AND SEDIMENT CONTROL

SITE LOCATION

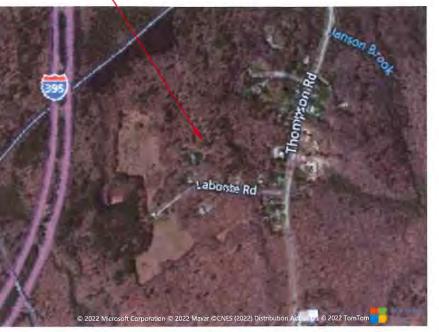
ACCESS ROAD & STREAM CROSSING OPERATION AND MAINTANCE

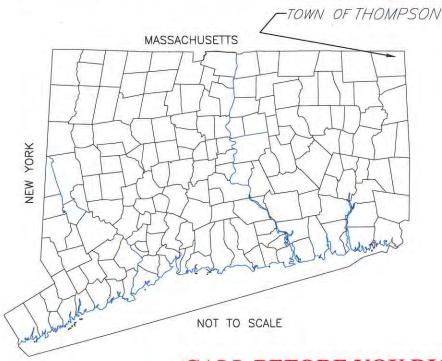
ITEMS TO INSPECT AND MAINTAIN DURING THE 10-YEAR DESIGN LIFE OF THE PRACTICE INCLUDE. BUT ARE NOT LIMITED TO, THE FOLLOWING:

- 1. INSPECT ANNUALLY AND AFTER SIGNIFICANT STORM EVENTS TO IDENTIFY REPAIR AND MAINTENANCE NEEDS. INSPECT CULVERTS, ROADSIDE DITCHES, WATER BARS AND OUTLETS AND RESTORE FLOW CAPACITY AS NEEDED. LANDOWNER IS RESPONSIBLE FOR ENSURING MATERIALS ARE REPAIRED OR REPLACED AFTER STORM EVENTS.
- 2.PERIODICALLY GRADE OR RE-SHAPE ACCESS ROAD TO MAINTAIN THE DESIGNED GRADE AND DIMENSIONS.
- 3. PERIODICALLY ADD SURFACING MATERIALS WHERE NEEDED (WHERE RILLS OR GULLIES HAVE FORMED, PONDING OR OTHER DEGRADATION HAS OCCURRED) TO MAINTAIN THE ROADWAY SURFACE.
- 4.RE-SEED ANY AREAS IN WHICH THE VEGETATION HAS BEEN DAMAGED OR DESTROYED TO PREVENT EROSION.
- 5.MAINTAIN VEGETATED AREAS WITH ADEQUATE COVER TO MEET THE INTENDED PURPOSE(S) OF SOIL OR STRUCTURAL PROTECTION.
- 6.INSPECT ROADS WITH WATER BARS PERIODICALLY TO INSURE PROPER CROSS SECTION IS MAINTAINED AND WATER OUTLETS ARE STABLE.
- 7.INSPECT THE STREAM CROSSING, APPURTENANCES, AND ASSOCIATED FENCE AFTER EACH MAJOR STORM EVENT AND PROMPTLY MAKE REPAIRS OR REPLACE DAMAGED OR BROKEN MATERIALS AS NEEDED.
- 8.INSPECT AFTER ICE FLOWS.
- 9. REMOVE ANY ACCUMULATION OF ORGANIC MATERIAL, WOODY MATERIAL, DEBRIS OR EXCESS SEDIMENT.
- 10. REPAIR AND RESEED ANY AREAS OF EROSION IN THE APPROACHES, ALONG THE RAMPS, OR OTHER AREAS ADJACENT TO THE STREAM CROSSING
- 11. CHECK AREAS WHERE UNUSUAL SETTLEMENT HAS OCCURRED. DETERMINE CAUSE OF SETTLEMENT AND FILL OR OTHERWISE REPAIR, AS APPROPRIATE.
- 12. USE ON THE STREAM CROSSING ONLY FOR THE VEHICLES AND/OR MACHINERY FOR WHICH THE STREAM CROSSING WAS DESIGNED.
- 13. KEEP MACHINERY AWAY FROM STEEP SIDE SLOPES. KEEP EQUIPMENT OPERATORS INFORMED OF ALL POTENTIAL HAZARDS. *LANDOWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS
- 14. DO NOT CROSS STREAM DURING HIGH FLOW EVENTS.

LOCATION MAP

38 LABONTE RD THOMPSON, CT





CALL BEFORE YOU DIG

TO INSURE SAFE TROUBLE-FREE EXCAVATING TO LOCATE UNDERGROUND UTILITY PIPE AND CABLE ANYWHERE IN CONNECTICUT CALL TWO FULL WORKING DAYS IN ADVANCE 1-800-922-4455 or 811

sheet 1 of 3

ccess

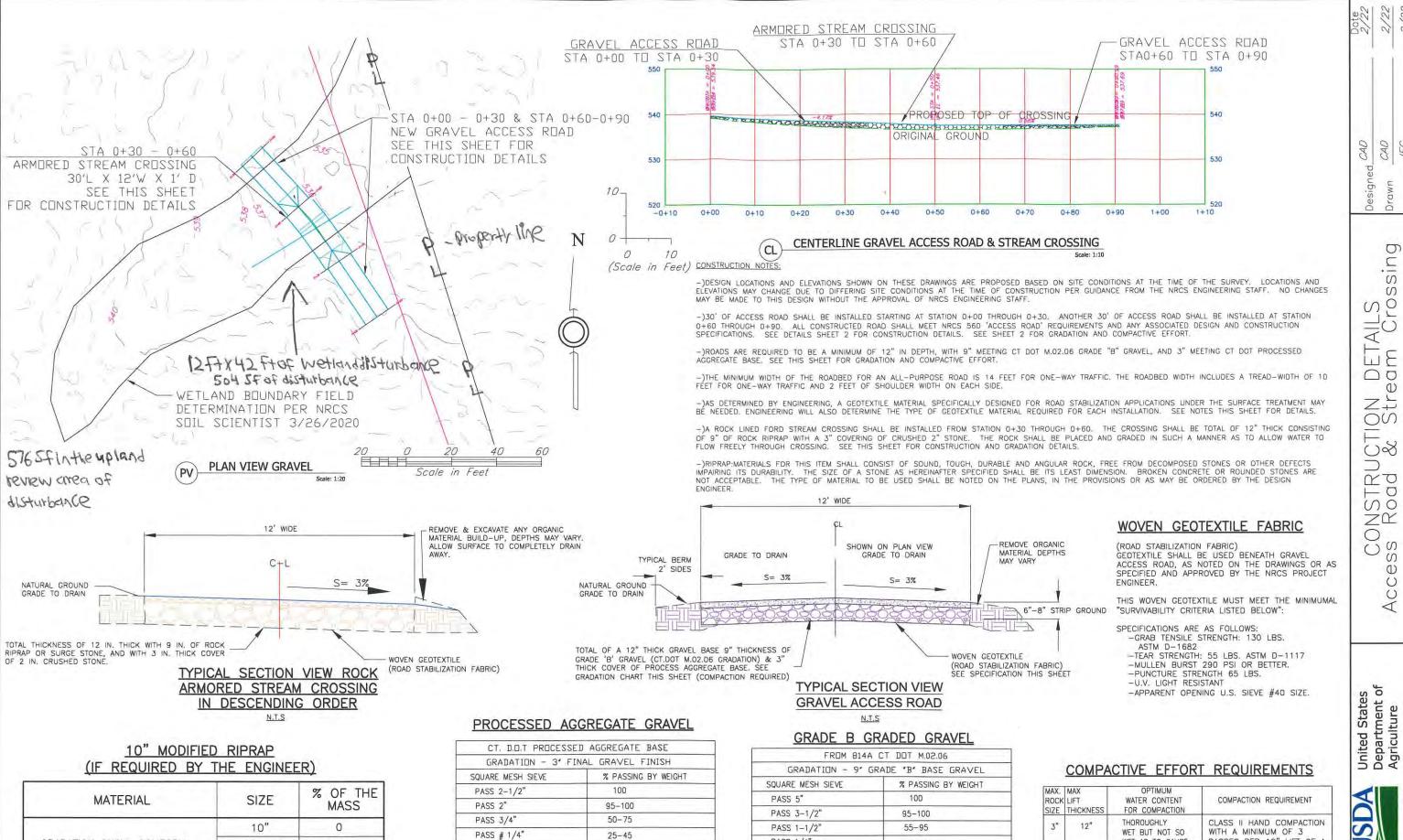
Crossing

SHE

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5



PASS 1/4"

PASS # 10

PASS # 40

PASS # 100

PASS # 200

25-60

15-45

5-25

0-10

0-5

GRADATION SHALL CONFORM

WITH CT D.O.T. FORM 814A

1995 SECTION M.12.02

MODIFIED RIPRAP

6"-10"

4"-6"

2"-4"

1"-2"

20 - 50

30 - 60

30 - 40

10-20

0 - 10

PASS # 40

PASS # 100

PASS # 200

5-20

2-12

<-2

MATERIAL: NO MORE THAN 2% BY

COMPACTION REQUIRED

WEIGHT SHALL PASS THE # 200 SIEVE.

WET AS TO CAUSE

THE MATERIAL TO

THE COMPACTION

EQUIPMENT.

ADHERENCE OF

PASSES PER 12" LIFT OF A

MANUALLY DIRECTED POWER

TAMPER OR PLATE "VIBRATOR

WEIGHING AT LEAST 200LBS

OR AN EQUIVALENT METHOD

Natural Resources Conservation Servi

Checked

rowing No. Corso2022.dw

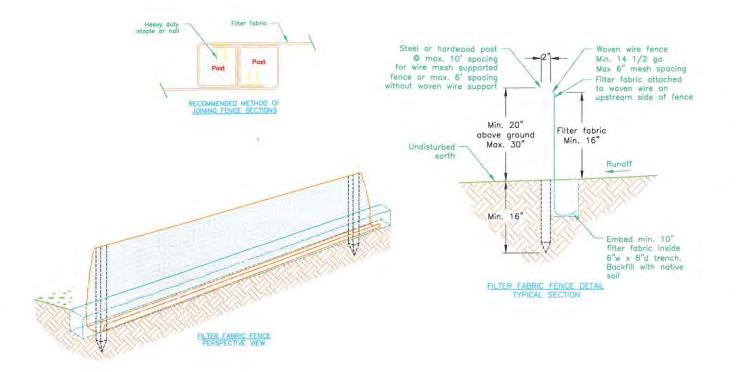
sheet 2 of 3

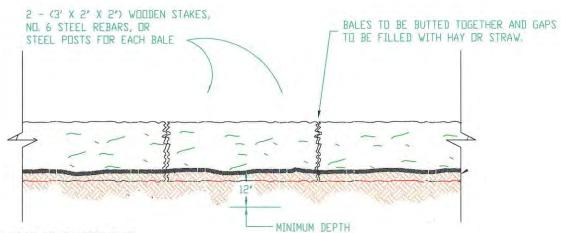
EROSION AND SEDIMENT CONTROL NOTES

- -)Erosion and sediment control measures will be installed prior to and during clearing, grading, and excavation. Silt fence (bale type or fabric type) shall be installed as needed, or as instructed by the NRCS project engineer.
- -)Posts shall (36) inch minimum length constructed of either of the following materials: Steel "T" or "U" type, or 2" x 2" hardwood.
- -)Woven wire used as additional fence support shall be minimum 14.5 gauge with (6) inch maximum mesh spacing.
- —)Woven wire shall be placed along the uphill side of the fence and fastened with wire ties or (1) inch staples along the uphill side of the posts.
- -)Filter fabric shall be fastened to woven wire according to manufacturers recommendation, or with ties every (24) inches at top and mid-section.
- —)Where two pieces of filter fabric adjoin each other they shall be overlapped by (6) inches and folded.
- —)Where two posts meet to join fence sections, the tops of the posts shall be secured together with wire.
- -)The fence shall be constructed along the contour as much as possible.
- -)Ends of fences shall be extended up the slope to prevent runoff from migrating around the end of the fence.
- -)Inspection of the fence shall be performed weekly, or immediately after a rain event, or when bulges appear in the fence. Accumulated silt shall not be allowed to exceed (1/2) height of the fabric. Repair and or replacement of damaged fence shall be completed promptly, as needed.
- —)Accumulated silt shall be removed and disposed of in an approved site in such a manner that it will not contribute to off—site siltation.
- -)Mulching and final seeding shall follow completed segments of the work. See specification for seeding requirements.
- -)All fencing shall be removed when the construction site is fully stabilized so as to not impede storm flow or drainage.
- -)All chemicals, fuels, and lubrications, shall be located, stored, and disposed of in such a manner as to prevent their entry into wetland or watercourse. No equipment or machinery shall be stored, cleaned or repaired within a wetland or watercourse.

SEEDING RECOMMENDATIONS AND SPECIFICATIONS

- APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RESULTS OR 300 POUNDS 10-10-10 AND 2 TONS OF LIME PER ACRE.
- 2. RECOMMENDED SEEDING DATES ARE APRIL 1 JUNE 15 AND AUGUST 15 SEPTEMBER 30.
- 3. MULCH ALL DISTURBED AREAS WITH STRAW OR HAY AT THE RATE OF 100LBS/1000 FT 2.





NTE: EXISTING GROUND TO BE EXCAVATED THE MINIMUM WIDTH OF A BALE TO A DEPTH OF 4". BACKFILL AND COMPACT EXCAVATED SOIL ON THE UPHILL SIDE OF THE BARRIER.

SEEDING REQUIREMENTS

PERENNIAL RYE 5	BS/1,000 Sq. Ft.
	.5
CREEPING RED FESCUE 20	.125
	.5
Total 45 Total 1	125

* NOTE: OTHER SUITABLE SEED MIXTURES MAY BE USED INSTEAD OF THE ABOVE

CAD ONTROL 0 DIEMNT O (1) 90 0 EROSION Access Ro

United States Department of Agriculture

HAY OR STRAW BALE

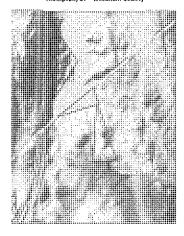


Drawing No.

Corso2022.dwg

Sheet 3 of 3

Management Ran for Gregg and Lauren Corso 20.66 total mapped acres; 2019-2028 Thompson, CT - Windham County



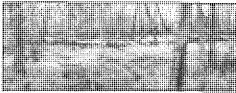






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Interestablish at anti-particular distribution between their collections and

Executive Summary

This Management Plan is intended to guide the menagement of Gregg and Lauren Corso's property located in Thompson, Connecticut in Windham County for the partod of 2019-2028. This property is to be managed to maintain and enhance wildlife habitat for a variety of species. Improve forest health, help maintain balanced and properly functioning ecosystems, improve regreational experiences, and maintain aesthetic qualities, all while keeping the protection of water quality and soli integrity paramoust.

The entire property contains approximately 21 mapped acres. This property was researched and field-investigated by Ferrutol & Walloki, LLC during spring 2013. The results, along with multiple-use management recommendations for the next ten years, are included in this Management Plan.

Overail, the Investigation revealed that the property contains generally even-aged forested upland, wedland, and siparian ecosystems, a meintained open area surrounding the house, and a large semi-open wetland with associated drainages. This property possesses varying levels of both existing and potential opportunities for future forest and wildlife habitat management. There are also some existing cours and trails that provide access to portions of the property.

înterests.

- complexity
- Engage in sound, sustainable land stewardship
 Provide suitable recreational opportunities
 Conserve sell & water resources

This property is well-extent for a multiple-use land management program. All of the recommendations provided in this document have been carefully considered and balanced within the general overall objectives of the Corso's land management goals and other

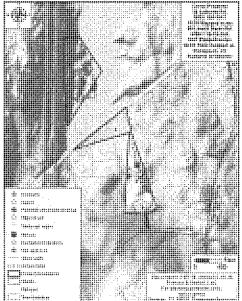


Goals for the Corso property Multiple-Use Management Program

- 1. Protect, maintain, restore & enhance diverse wildlife habitot, and structural

- 5. Potentially maintain some sensitive or special areas as reserves
- 6. Protect cultural resources
- 7. Maintain & improve forest and ecosystem health

Come Partners of Insurant libra-





Above The semi-open wetland in the northern position of the southern block of this property provides some interesting and unique handel restures for his sizes.

Summary of Major General Recommendations A summary of area specific recommendations can be found on page 26

- Natural Resource
 1. A forest management program, including active forest management and wildlife habitot work, should be considered for this property. Elforts to maintain and enhance wildlife habitat, improve forest and ecosystem health and diversity, personal safety, and methodin water quality and soil stability, should be the focus of management echyties.
- 2. Engage in projects to improve forest health and to diversify species, age class and size class diversity of vegetation.
- 3. Where feasible, invasive plant species should be controlled/removed to encourage regeneration of native vegatation. Where feasible native alternatives could be planted to replace invasives.

- Restriction
 1. Continue the meintenance of the trails that correctly provide access to parts of the property. Consider attempting to develop an easement for legal access to the northern block of the
- 2. Ensure the preservation of historical features on the property (i.e. stone walls etc.).

Summary of NRC3 Resource Concerns

- High density of trees in over story in places reducing tree vigor/inhibiting regeneration
- invasive plant species established in areas
- Lack of the regeneration in places, and a significant lack of diversity of tree regeneration thy oughout property.

Corso Property - Forest Management Plan 2019

General Property Description and Inventory Methods

The Corso property enjourns to 20.66 mapped acres divided into two blocks: The northern block, which is 9.67 acres focated at 0 Lowell Davis Road adjacent to 1-395, and the southern block, which is 10.99 acres, located at 36 Laborita Road, and contains the residency of the landowner. The two blocks are separated by an old railroad bed that now serves as a walking/folking trail (The Alcina Trail), which forms the northern boundary of the southern block, and enother piece of private property.

The southern block is mostly flat with dry solls toward the house and a 3.7 acre wetland toward the Altine Trisi. Vegetation consists of small to large sawtimber-sized mixed hardwoods with some cattered white prices in the overstory. In the understory, black birds, red maple, American elim, white ook, white ash, and white play are the most prominent sapilings. Black black, red maple, and white pine are the most common seedlings. Shrubs and herbaceous plants include various ferns, Canada may flower, raspbarry, pockets of highbush blueberry, and Jack-in-the-pulpit.



Above First (such as this paint found in the execut portion of Stant 2) downtates portions of the understory and may middle future efforts to requested to rect took bord entirely it is currently established. If we attempt to requested trees in being contained, and minimized security or hander feet propriations would be gold-risble.

The northern block has a gentle slope facing east with dry soils throughout and small podiets of watter soils near the southern and eastern boundary. The western boundary abuts 1-395 while the rest of the block berders private land. Vesetation consists of small to lange sawtimber sized mixed hardwoods with some scattered white pines in the understory. In the understory, hidrory, white pine, black birth, and American chestrictians the most prominent saplings. White oak, black birch, hophornbeam, and biology

invasive species are sparse throughout the property, however pockets of Japanese barberry were observed. In addition, hay scented form a native species with some invasive tendencies is present in

The property as a whole is mostly flat, Elevation ranges from SCOft to SSOft above sealers.

Corso Property - Forest Management Plan 2019

¹ PideCimbar vi any tiere that I: between 4.5 and 1.2 (aches in demeter di transf height (doh). Savtember-lited tress are those that a recent 22 inches of the 2 inches of the 3 inches of the 2 inches of the 3 inches of t

An inventory of the forest resources on the property was completed in spring of 2018. A series of inventory points were laid out throughout the forested partions of this property. At each point a 10 Basel Area Factor (BAF) angle gauge was used to determine basel areas? and a Biltimore stick and/or clamater tape were used to determine diameters and merchantable heights of trees. Additionally, a qualitative visual inspection of individual tree and stand health, as well as understory prevalence and species composition. and reletive structural complexity was conducted at each point.

Boundaries, Location and Access

This property is incated near the center of Thompson, Connecticut, it is bisected by the Airline Yeals, ownerd by the state of Connecticus, and another piece of private property. Interstate 395 abuts the western boundary of the property's northern block. All other adjacent properties are privately owned.

Access to the southern block of the property can be gained from Edbonte Road via the landowner's ssiveway and a forest road. The northern portion of the southern block is best accessed on foot over the adjacent landowner's property to the east, but there is no official documentation of permission to do this Also, there does not appear to be legal access to the northern block without permission from an adjacent landowner, likely to the south.

One mein interior path is present on the southern block of the property. The road is minimally maintained and contains at least one wet area that could threaten the road's stability if heavy machinery were run in this area.

Right: The main trail through the touthern block provides good uccess to study of Stand 2. Continued at Entenance and some improvements can help cosune this occase repoint weble.

Boundaries around the property have not been marked. However, some adjacent landowners have posted signs Indicating property lines and some portions of the lines

Generally, the area surrounding the land contains blocks of relatively dispersed development and a mixture of relatively mature hardwood forest with small scattered pockets of softwood. Agriculture plays less of a role here than in other parts of eastern Connecticut, but it is will



Water Features

2.7 scres of the southern block is semi-open wetland. Wetlands are an important ecological hub for a veriety of wildlife species and contain many types of vegetation that are not found in riter landscapes

-Basal erea is a refailed measure of density of trees in a given ones. Usually described on an average per occubatis it is the cross-section of surface area (in square feet) of wood that would be found in all trees at breast height which is 4.5 feet above the ground on any given agric

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- Vigorous sprouting when above ground portions of the plant are out;
- Prolific seed productions
- Rapid growth rates:
- Ability to colonize disturbed areas:
- Long periods of seed bank viablity;
- Extended growing seasons due to easy leaf out and ability to photosynthesize later in the season;
- A lack of wildlife species that provise on hurts.

The reduction in species diversity described above is important because a diverse ecosystem helps to provide diverse hibitation wildlife and insect populations including politinators. Wildlife and insect species have adapted to be able to utilize the politin, seeds atc. produced by native species in an area. Fewer insect species use the nextar of invasive plants. Because significant populations of invasive plant species can have a negative effect on ecosystem health, lit's best to treat known infestations while they are small and manageable. For more information on how to identify and control invasive plant species in Connecticut visit: http://www.hortustnon.edu/close/art-oubs/GUIDE/euidsframa.htm.

Though none of the oak in the interior forest on the property were observed as having gypsy moth defollation, it is something that must be more larged over the next several years. There were some trees along the forest edge that had died prior to spring 2018. The dry conditions of spring 2016 allowed for the rapid development of gypsy moch farvue and welke the summer of 2015, there was no major die off of the insect during the growing season. 2018 saw major pockets of mortality of eak in eastern CT and MA. The gypsy moth is an early- to mid-season defoliator of different species of trees, but it iscuses primarily on tak and espen. There was a significant amount of defokation that occurred during the summers of 2016-2018 throughout eastern Connecticut. Repeated defoliations combined with the historic droughts we've been experiending may eventually lead to large scale mortality of some trees expectably those on poorer quality solls.

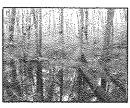


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One method of helping to curb the effect the gypsy moth has an forests is to keep individual grees healthy through periodic thinning, and to maintain species diversity, including managing for tree species that the insect linds less pelatable. For information about this insect and its potential control see this website: http://www.na.is.fed.us/inp/gm/online_info/gm/gmnio.htm.

Smaller patches of wetland soil are scattered around the edges of both blocks, but unlike the semi-open wetland in the southern block, these patches are forested. Forested wetlands are also important for overall forest health as they contain quality habitat for amphibians as well as understony plants like highbush blueberry and Jack-of-the-pulpit, but are much more common than open and semi-open

There are two potential vernal pools on the property, one in each block. These locations can be seen in the features of interest map on page 4, in addition, there is a small drainage that runs into the weband from the east. A crossing of this drainage on the adjacent property was done fairly recently in order to access timber on the adjacent landowner's property north of the drainage. This crossing provides good access to the northern portion of the southern block of the Corso property, but legal use of the property for this purpose does not gaist,



Left: A potential vernal pool noted in the eastern portion of Stand 1 may provide an important source of amphibian habitation. She property.

If forest management activities are to be conducted in the luture, special consideration should be made of wedland spils and potential vernal pools. These features should be treated slightly differently than better drained areas with -general, but not always - higher percentages of overstory cerepy retained, and no equipment should be operated within these features, unless ground conditions, time of year, and logistics

warrent doing so. Tops of trees incidentally felial into these features should generally be removed, though retention of and in some cases, purposeful placement of woody material can be beneficial for the wildlife that use these areas.

Insect, Disease and Other Forest Health Issues

in general, forest health throughout this property is good. There are some scattered patches of invasive species, but otherwise species diversity is relatively righ, structural diversity is fair to good, and there are few, if any, invasive pest problems even among tree species that are prone to having them. Additionally, there is enough advance forest regeneration present in the understory in places to suggest a future, healthy forest will develop if and when a disturbance to the canopy occurs.

Fo put context to these observations, the following explains some elements related to forest health in more detail,

For est structure is described in both vertical and harizontal contexts. Vertical diversity is the presence of vegetation of various heights (also called strats) in a relatively small observable ersa. Horizontal diversity Is how yesterfor types and heights vary over a larger landscape level. Increasing vertical and horizontal

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white pine Weevil is a native insect that kills the terminal leader² of some species of softwood trees. Common hosts for this insect (naude white pine, Norway spruce, and blue spruce. White pine is the only one of these species that is native to this area. The white pine weevil female lays her aggs in the terminal leader of suitable white pine trees. When the layvae hatch they burrow into the terminal leader. Their feeding can deform and kill the terminal leader which causes the horizontal branches to subsequently compete for dominance. This results in poor form. and while it is not fatal to the tree, the new branching pattern usually significantly decreases any future potential value for

Left: The multiple stems of this white pine in the eastern partials of Stand 2 indicate that it was likely impacted by white pine weeks early in as life.

There were ash trees noted in pockets diroughout the property. The ash on the property appeared generally in fair health.

Though there is a non-native insect - the entereld ash borer - that has been found in all counties in CT, a more likely cause of the decline of the ash noted on this property is ash yellows or the generic "ash decline", both of which have been killing ash for decades in this region.

Nectris is an invasive funcus that infects black birch, a species of tree present no the property. This funcus creates visible cackers, frequently referred to as "target" cankers, which tend to expand over time. The cankers in turn create points of entry for other diseases and insects as well as reducing the structural

No tress were cored during the inventory, but visual observations indicate that some of the trees here are growing reletively slowly. This is important because growth rates are frequently directly proportional to tree vigor and associated health for many of the species of interest on the property, primarily oak. Tree growth rates are affected by several factors including:

- Site conditions (overeil site and microsite);
- Stope position and espectifile, direction the slape faces Consection (primarily for smileht); and
- Species.

Some stude tolerant tree medes including her/fock and some herdwoods can be perfectly healthy but have very slow growth rates. One way in which individual tree vigor and growth rates can be increased is through active forest management. By periodically thinning the forest retaining individuals of a variety of species that appear healthy, competition will be decreased, and frequently vigor and growth rates

in addition to using active forest management to attenue to increase vigor for the sake of healthfar trees. a more vigorously growing forest can be more resilient when attacked by insects and/or intested with

5 The termin# leader is the Lop vertical extension of a sine.

structural diversity improves habitat for deer, ruffed grouse, woodcock, rabbits, turkeys, songbirds and other species that use a combination of habitat types for steir life requirements



Above: This picture from the central position of Stand 2 shows good structural complexity with dense yegelation consisting primarily of regenerating trees becomes to become established in the conditiony and understony. The dense lower layers o profiled, cover and accordial notifing a breeding areas for binds and other wildle

One additional element of diversity that will be discussed later is tree species diversity. In particular, maintaining healthy populations of softwood species (a.k.a. conflets or evergreens) is critical to maintaining the diversity of habitat conditions this property offers.



The Figure above shows the multiple compay layers in one spot representing vertical structure and the spatial pythiness of homental structure over a wider area, both described in greater decor below. Diagram court eay of the British Columnian Ministry

There are populations of non-native invasive plants found on the property. Japanese barberry is the primary invasive plant found in the upland forests. However, not all non-native species are considered invasive, in fact, some non-native plants such as apple trees and some dovers have become naturalized in our region and are considered beneficial for a variety of reasons, including their values for wildlife and costhetics. As opposed to native and beneficial naturalized species like those described above, invasive clant species have qualities that frequently make them debimental to the overall acological haplith of an area. These qualities can give invasive plants a competitive advantage over nettive species and can lead to the development of monocultures of invasives, reducing species diversity. Such features include:

Corso Property - Forest Management Plan 2019

eases. Forest management that increases structural diversity and complexity can also help a forest to he better prepared to respond to storm executs

Some codominant canopy trees were noted to have some epicormic sprouting. This is a sign that the tree is under alreas. Epicemic branches aprout from adventitious buds that lay dorment under the back of the tree. During times of stress, these buds will break and will shoot outney sprouts along the main trunk of the tree. Over time, this can lead to decreased value for timber, since these new branches cause knots in what otherwise may have been clear, wood. More importantly however, it is a sign that for whatever reason, that tree is stressed.

Although it is important to attempt to ensure tree health and vigor through active management, not all trees that appear to be poorer quality should be removed. Having some trees (standing and on the ground) that show signs of not etc. helps provide an element of ecological diversity that is important for a variety of species of insects, fungl, bacteria and wildlife.

There are some snags (standing dead trees) that are well-scattered throughout the property, but populations of cavity trees (larger diameter standing trees with cavities) are limited. Oparse and fine woody material is found in places. Coarse woody material (CWM) is woody material on the ground that is greater than 4 inches in diameter, time woody material is less than 4 inches in diameter. Both coarse and the woody material play a role in providing different kinds of habitat for a variety of vertebrate and lowertebrate wildlife species. Stags and cavity traps are also important ecologically for a variety of funct. bacteria, insect and wildlife species as well as for nublent cycling, and, in some cases, tree specifing germination. The recruitment of all of these features may be appropriate in certain greas on the property. where and it personal safety and intraso ucture integrity would not be compromised by doing so.



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Wildfire risk on the property is relatively low due to dimate conditions, a lack of significant ladder fuels and fine woody material, as well as the presence of vernal pools, wetlands and otherwise soggy solis in places. Other weather events including windthrow and flooding may occur in various parts of the property. Though natural disasters cannot be avoided, a more resilient forest can be created through

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purposeful active management to maintain and enhance species diversity in all forest strates, and to encourage the presence of multiple size and age classes of trees.

Property History

Oue to physical evidence including the stone walls that are found in various places throughout the property. It appears as though most of this area was used for agriculture and subsequently abundanced, between the property. It appears and the second of the place change, Vidence or place (egging in the time of a bumps, of the open not used during the last entry for logging, and what appear to have been skid reads also exist in places on the property. The rings below thous the property boundaries on an arthrophotic from 1541. Note the amount of laminand that has reverted to force to have been developed into credefold property.



*Forest strained exclaunatorstory, military and overstory, shaterstory is considered to be from ground level to Sift. Military is from Significant, above the ground, and overstory is faller than 30 ft.

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A check of Connecticut's Natural Diversity Database (NODB) indicates that there are no areas on the property that contain rare or threatened species or species of species concern.

Landowner Goals

- 2. Protect, maintain, restore & enhance diverse wildlife habites, and structural complexity
- Engage in sound, sustainable land stewardship
 Provide suitable recreational opportunities
- Provide suitable recreational opportur
 Conserve soll & water resources
- 5. Potentially maintain some sensitive or special areas as reserves
- 6. Protect cultural resources
- Maintain & (mprove forest and ecosystem health

Stand Descriptions

For the purious of this management plan, the property has been divided into the management units called stands or areas. For ested stands are settlors of the property uniform enough in vigotation, species composition, age dass, size dass, density etc. to be able to group logarbar as residently homogemous. Other features that are committed to hid proportionals together are location, accessibility, and size of area. That is not to app, however, this forested stands are competely uniform. There will almost always be some variability due to the fact that we are attempting to quantity and qualify natural systems, which inherently trend howards an entry.

There is a set of recommendad earliers provided for each stand. Sightisan activities are provided with a date in help soft be the manage ment of help open by the property or some of the debase may be inveridenced by the property of the property of the property or some of the debase may be inveridenced and should seem and investigate man and the property of the pro

Corso Stand Information

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Carpo Property Stand Information

Corpo Property Stand Information						
Stand	Cover Typa	Acres				
1	M≍eć Rardwood	7 9				
2	Mixed Hardwood	6.2				
3	Forested Welland	1.8				
4	Open Wetland	3.7				
5	Residence	1.1				
	Total Acresse	20,7				

Wildlife

Providing quality habitat for a variety of veilalife species is a primary goal of the landowners. Focus species to mentge for include sorgbirds, rebbir, deer, kurkey, birds of prey, hobbet, grouse, amphiblens, reptiles, woodcook, and small and larme mammals.

Some wildlife (primarily eddence of deer and songbirds) was observed during field visits to the property, and there is good potential for a variety of species to exist here due to the variety of habitos present. Throughout the property fiere are hard mass? producing species of trees in the overstoy (i.e., the main

tree canopy). Red, black, and white cells, and history play a significant role in the mixed hardwood stands which constitute the majority of the forests on the property. Soft mass producing species including maple feel vibrumum, huddeberry, and buleberry are present are found in vestious places throughout the property and on adjacent properties.

Right: The densely-growing hocklabers; which is the call rejection of Stend 3 is directly adjacent to the trail in order to increase productivity of this and offer understoop should and principle decisions decision of the control o



Having a writery of different kinds of most producing species is beneficial because oftendines different species will have good many years (i.e. produces significant amounts of veets, must or accurate in different years. Staggered prediction of seed sources and all the dispersal of most over time and help widdlife prague to difficult where months. The hard and soft mast produced by the tree and shrub species mentioned above is used as 50 ofto a variety of widdlife.

Soft max? — In the form of shrubs such as huckleberry, highbush blueberry, and maple leaf viburnum — Is also found in places on the property. It is beneficial for many species of wildfife to have a combination of hard and soft max! In their diet as each max! source provides different dietary elements. Hard mast oftenhard and option and fast, whereas soft max! tends to be higher in sugaro.

Stand I contains a small group of bigscoth signed these fixed location of aspen normal on page 4. These trees on the an important source of food and cover for a variety of wildlife including groups, woodcock, songbirds and ideal. Aspen – also known as people – aproved seep profilically from roos and sturges when the above ground portion of the trees are cut if they price outwhen the trees a self ill higherous. Aspen are very shade incollerant trees to in order for the selfest to successfully agenerate, they need a significant amount of divides smallpoint devices. The selfest is successfully regenerated, they need a significant amount of divides smallpoint devices. Additionally, and the wildlife species mentioned device. Additionally, and the wildlife species mentioned device. Additionally, and the self-ground is a small or and contained and con

7 Mast is food for wildlife and is seconded list I violg bries I categories hard and soft. Hard mast includes one, Nichory, beach and other nut producers. Soft mast is fulls including berries, chemic, and epilles.

Corso Property – For est Management Plan 2019

Corso Stand Map

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flower buds of male aspen" trees can be a webable lood source for grouse in winter, When attempting to negeriate aspec, openings of at least a 75 foot reducing are useful.

As mentioned earlier, there are small products of softwood these on the prospecty. Most of the rottwood is eastern writing pine. Healthy groups of indexwood these within a larger hardwood mabe used diversity to the property and provider habitat conditions that are useful to a subset of songthinds and other wildlife species that will typically use softwood or mixedwood lorests for their core habitat.

Bight: The handook reer, bere in the southwestern portion of Stand 1 is relatively hadding and elegations though some scale was rough on some of the secoles. We exceed able, encouraging pockets of healthy softwood to persist can help a spread hadden of ferrings have.

In addition to the species diversity they provide it an area dominated by indevolved trees, softward preventing the additional provided and spruce, but also white pine to a certain settler. Can act as a shelter ling area for widdlife, in heavy snown, danse softward over can fliet as awar eight all owing far easier traver for ideer and other widdlife. Additionally, wild unitely frequently nost in white pine. Many other species induling non-game species of widdlife such as soregistic studies the dense over of softward follage and some species induling that-throated green worklers and Blackburnian warblers will preferred large with a system of component.



The forested wetlands, drainage in the northern edge of the southern Islack, and potential vernal pools and detail alayers of importance for a small property. Amany reades of willfull: littlely use it is pools when make the property of the property method and provides a valuable source of shrink property method and provides a valuable source of shrink property of the property of

Shags and cardly these are two elements of a forest thick on the earlily one-flookood by a could observer, As described earlier snaps are strading dead trees. As these trees decompose, they provide hobitat for many specks including insects, lurgh, bectaria, birds, reptiles, imphibitions, and mammals. Cardly trees are sanding trees with index in them that may provide habitat. Where deadle, attempt to retain and recruit snaps and oxiny three. As any glore time, they presented of sitesast 66, prays and/or oxing three foreign continues to the state of various sizes is kided. It possible, utsompt to retain and time the foreign countries are continued to the continues and the state of the continues the state of the continues are the continues the state of the continues are the continues the continues are the continues and the continues are that are greater than 12 forches after the continues are the continues and the continues are that are greater than 12 forches after the continues are continued to the continues are the continues are continued to the continues are the continues are continued to the conti

⁴ Appendicate are (Appendicate), which means that make and female flowers are housed on offerent trees, table aspen build are considered to be larger than female;

⁷ Demeter it creat height (shh) is diamater outside bank as measured at 4.5 feet above the ground on the high side of the slope (if there is slope).

Progedisch, Stein, Katherine Massast, Ilin. Shallow, Kridien Sharpheis, and Michael Snyder. Shatefure with Sinton Askid. Hertington & Waterbury, VT. Audubon Vermont & VT 694, 2011. Proted grade.

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Stand 1: Mixed Hardwood Sawlimber (7.9 Acres)

Stand	Salt Symbol	Soll Type	Acres
	18	Caydon and Freetown spile, 0 to 3 parcent slopes	86
1	306	Uldortherts-Urban land complex	O.
	73C	Charton Charled complex, O to 15 percent places, very rocky	7.8
		Total	7.5

				Steni	11					
	AllTres			Acte	Acceptable Growing Stock			Dominant/Gr-Dominant		
the dar	3 Years day	DV/har	Volume/sc	a trees de	DAJAK	Volenovic	4 Trees fac	84As	Volume/sc	
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suminus:	584	D) G	7,716 5 MISY	52.2	76.0	6,929.27/61	584	90 b	7,726 2 5/69	
Poletimbei	70.9	267	6.3 cm d	297	12.3	2.4 cord	22.3	122	2.3 05 4	
Snecs	95	3.3		<u> </u>		· · · · · · · · · · · · · · · · · · ·				
John	1,005.7	1200	-	61.9	83.3	,	80.7	95.3		

Quadratic ble on Stand Drameter (Frees > 57 = 14, 1 indices

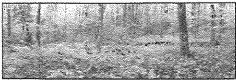
All trees			
	Percent	Percent	Percent
Species	BA	Trees	Volume
Black Birch	5,80	19.15	2.95
Block Oak	11.76	39.0	11.35
Aspen	5,99	0.35	5.65
Red Maple	2,94	0,53	2.82
Red Oak	41.18	2.72	46.6
Scarlet Cak	20,59	0.94	22.52
5nag	2.94	0,53	
Ash	2,94	0.12	2.28
White Dak	2,94	74.05	2.32
White Pine	2.94	0.94	3.01

u circiniariu ar	Percent	Percent	Percent
Species	BA	Treus	Volume
Black Birch	24.29	15.18	13.41
Aspen	7.14	7.73	6.39
Red Oak	46,43	49.0	49,52
Scarlet Oak	25	20,93	25.48
Ash	3.57	2.62	2.59
White Oak	3.57	4.43	2.62

Description:

This is the largest stand throughout the property and is situated in the northern block. It lies on a slight eastern aspect between 1-895 to the west and forested wellond to the south and east. According to valis mapping through the Connection Department of Energy and Environmental Protection (DEP) and NRCs. there is no memain soil type and two fiftings soil types in this stand. Almost all of the are all composed of Chariton-Charifeld complex soils, which are well suited to growing hardwoods. Site index for red out on this property is 85 ft. which is fair to good for this species.

The majority of oversory nees we associated size northern red oak with a large component of scarler ok. Bake ok. White oak, with, and agen ore also present. The middlery combine is midware of palested black birch, red majol, northern red oak, and white plan. There is a large component of white oak is seadlings in the undersort, which will be critical for future regeneration of the stand. Black birch recedings are also present, shrubs include lossbach blueberry, which haze, dater, major leaf view man,



Above of the biosely growing calk tendings in the understary in the southern portion of Stand 1 are relatively than how and are now yet finity established interesting sunlight by Lageted innoval of some ownstary treats on help increase the likelihood that the seadings can become each sink defined and some yetche biscore in a part of the east stand.

1935 agrial Imagory shows a road connecting this stand to property in the west. Since then, intendate, and 505 has been should curring of lossess from that direction. The stands it surrounded by welstand, and other sides with the exception of a nestrow streeth of land to the morth, which is privately owned, illegal cockes were needed into this stand it evaded likely have to go through the northern pathway with the permission of that landowner or along the Arifine teal weaking with DEEP to secure permission if life is foreigned.

Whenever activity with equipment is undertaken, use Best Management Practices™ to ensure water anality.

Desired future condition: Consider menaging to maintain and enhance diversity of stand structure, vice and age class of trees, and increase species diversity. Confinue to grow good quality trees of a wafety of species. Light diffinings can occur here every 15-20 years. Ensure invasive plants do not become established Releving tree cutting by vigilart monitoring and early treetment it found.

http://www.ni.gov/depod/depod/ges/try/patt-in-viacon-pot-in-activity/dept-processing-ad-ad-

Gorso Property - Forest Management Plan 2019

Recommendations:

2020 – Treat invasive plants and inspect the erea for eak mortality that could/should be salvaged. This inspection could be done in 2019 as well. These are both non-commercial treatments.

2021 – According to the Gregifch Stocking Diagram for upland calls this stand is well-stocked for the continued growth of overstory trees, but is nearing the point of being overstocked. Because of that, most portions of the canopy are relatively dosed which decreases the feasibility of successful establishment of regeneration even in places where advance regeneration already writes.

The bountful oak seadings in portions of this stand are not often found in Connecture. If this is a feature that the fand-owners would like to werk with condier releasing poticits of seedings where it makes sense to do so based on overstory condition and composition using small group selection up to it are in size. Regeneración of up to 3 km of this stand (3 / 2 comhiative acres) may be feasible, but the actual amount whould litely less than this. It regeneración releasible serve conditing regeneración where the seedlings and seption groups recorded to respond to release and where it makes a sense to do so based on overstory composition and condition. Retain mage, positional certify trees and forbreve the serve wherever feasible. Swemp write out and other healthy oaks should also to retained out the condition of conditions of these in the server of the retained of the condition of the condition of the server of the server of the condition of the server o

If portions of the area between regeneration pockets are to be thinned, reduce basal areas to approximately 80 vf per acre. In addition to tree regioneration, where eatining pockets of build between another build between another buildings are found, condition receiving canopygos above them a well fill makes sense based on overstory condition and composition. This beatment would be done to enhance production of nector and composition.

Consider addressing the west spot in the road in this stand. This could potentially be done using fabric and stone. All these treatments will be non-commencial due to lack of volume even if combined with a treatment in Stand 3.

Stand 3: Forested wetland (1.8 Acres)

Stand	Soli Symbol	Sall Type	Acres
	18	Catden and Freetown soils, 8 to 2 percent slopes	0.6
9	306	Udortherts-Drban land complex	0.0
•	730	Charlton-Charlield complex, 0 to 15 percent alopes, very moky	1.2
		Total	1.0

Description.

21

Single 3 is a collection of small, sometimes less than Lesse, patches of find that share similar sells and forcest over special. As sections of the bestand are adjunctor to Section 2, and the delice of sever interest access. No twenday place were tablen in this timed, but the overrancy bees are an inhare of hardwords. No twenday place were tablen in this timed, but the overrancy bees are an inhare of hardwords are presently reduced to the product of the production of the prod

commandations:

2020 - Treat invesive plants and inspect the area for oak mortality that could/should be salvaged. This interestion could be done in 2019 as well. These are both non-commercial treatments.

2022 — According to the Cingrich Society Diagram for upland colls this stand is well-stocked for the contributed growth or over story to ext. That said, most contribute of the centry are articlarly beload which decreases the feasibility of successful establishment of regeneration. The bountful white cell-seedlings in particlar of this stand arenot other found in Connecticut of this is a feature that the standowners would like to work with condier releasing postetic of seedings where it makes senier to do so based on overstory condition and composition using small group selection up to 3% state in size. Regeneration of up to 25% of this size and may be leasible. If this is to be demote this require working with ediporating indiowant to secure permission to access the land with equipment if they wood from failed these is to be removed. This will be a non-connected by externed up to take of violatine and difficulty of access.

Stand 2: Mixed Hardwood Sawtimber (6.2 Acres)

Stand	Sell Symbol	Soli Type	Acres
	16	Catalon and Freetown scale, 0 to 2 percent slopes	0.0
	3	Adgebuty, Sercester, and Whaman soils, 8 to 8 percent alopes, extremely stony	0.9
,	468	Woodbridge line pandy loam, D to 9 percent alopes, very stony	1.9
•	47C	Woodbridge fine eartly loans, 3 to 15 percent slopes, extremely stony	2 9
	61C	Canton and Charton line early loams, 8 to 15 percent slopes, very stony	0.4
		Total	6.2

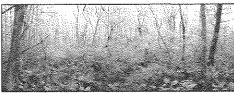
Stand 2										
	1	All Yees			Acceptable Greating Stock			Demonstrat/Co-Deminarit		
The Case	I Trees /kx	# Frees /kg De/es Volume		# Trees flee	DV2c	Volume, Acc	#Tenes/ke	DOM	Volume/H	
Seedlings	00				-					
Sapilings	57.3	56							-	
S twell mbd4	39.0	65.0	£390 3MDF	244	60.0	5,7581,0/84	38 D	62.0	63922400	
Paletimber	58.1	450	5 Ocens	34.6	25 9	3.5 cord	27.6	250	9.1 and	
SANCE.	97.3	15.0	-	-			· .		-	
Total	20.7	1360		69.2	75.0		15.50	109.00		



Left: The northern end of Stand 2 showing white oak regeneration with some husbeparry shoubs.

Corso Preperty ~ Forest Management Plan 2019

herbaceous species. Some investive plants including Japanese barberry and multiflate rose were noted stong edges of these stands. These pockets of forested wetland are benefited for a variety of wildlife



Above. The structural attributes on the promitters fisher of this stand providing providing processor or a variety of whileful its usual be lower type at the foreign for which present or accessor people or procure profession and provide them the way to the providing t

Including songblids, birds of prey, amphiblans, reptiles and meny mammal species as well. **Destract future condition:** Condider managing to maintain and onhance diseasing of stated structure, size and age class of trees, and forcesses pecies diversity including softwoods. Chause Investigation plants do not become established belowing tree outing by sightest monitoring and safity respinants! found.

Recommendation

22

19

Ongoing - Monitor for the presence of invasive plants and remove them where feasible.

2021—If desired, consider greating some shall camply ago; in the notife-spetch block of this stand in conjunction with work being done in Stand I. This can be done by althor felling and eleving felled trees to create additional shutcare on the forest borr or glotting some trees to create pockets of standing dead sings, it he purpose for creating concept gaps is while to treatments recommended in Stands 3 and 2, which is felded to enhance shall call the stands and 2, which is felded to enhance shall call the Stands and 2, which is felded to enhance shall call the shall careful grown areas open. Retaining disting siness, cavity trees, and softwoods is important. All these treatments efficient pronocomments of the shall conform the shall be pronocomment or the shall be shall be

Area 4: Open Welland (3.7 Acres)

Stand	Soll Symbol	Salf Type	Acres
	16	Catclen and Frestown soils, 0 to 2 percent slopes	3.7
4	3	Pidgebury, Leicester, and Whilman sails, 0 to 0 percent slopes, extremely stony	0.9
	63C	Carton and Charlton fine early Joans, 3 to 15 percent olopes, extremely stony	0.0
		Total	3.7

Corso Preperty - Forest Management Plan 2019

....

Percent	Percent	Percent
8A	Trees	Volume
24.29	12,59	10,21
10.71	2.92	15.25
25	11.87	29.36
3.57	2	6,91
10.71	28.12	0
3.57	. 2	4,45
3.57	0.78	3.24
28.57	39.71	30,48
	3A 2A,29 10,72 25 3.57 10,71 3,57 3,57	8A Trees 24.29 12.59 10.71 2.92 25 13.87 3.57 2 10.71 28.12 3.57 2 3.57 3.57

| Dondfant and Codominant trees | Society | DA | Trees | Volume | Black Bluch | 5 | 17,23 | 5.4 | Black Dak | 1.5 | 9,09 | 17,73 | 5.4 | Black Dak | 3.0 | 22,38 | 27,7 | Swelling White Oak | 5 | 6,21 | 7,3 | Swelling White Oak | 5 | 6,21 | 5.5 | 6,21 | 7,3 | 5.4 | 3,3 | 3,59 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65 | 3,65

Description.

Stand 2.1 located flust north of the Corso residence. It can be accessed by an old forest road abon, the eastern and of the stand. According to soil in suppris provide the Cornecticut Department of Energy and Environmental Protection (DEEP) and NRCS, the most common soil type is. Woodbridge fine sandy loom, which is excellent for growing costs. There is also in acce of Rickeybury, Lefecters, and withtrain soils, which is weeland soil type and not conductive to harvest activity unless per formed in the winter when the ground is propely forces. See indee to the lack with XT NV with I high for this visit.

The eventory is a mixed increased cover type with white add, back cak, and red made bring the most common species. Also present is scalled ask and swamp write add, the letter of which is somewhat have in the state of Connecticut. The midistory is composed of black birth, red maple, black oak, white add, and write add. The understory is sparse white white add saplings being the main component. The fact there were every few seedlings observed during the trendrom mainst that any future management about share were every few seedlings observed during the trendrom mainst that with future productivity and reallience of the kneet.

As mentioned previously, access to this stand can be gained via a forest road that strens from the Carto recidence. The road dees cross content was stolls so III have to be tased by any heavy mothings, some type of maintenance should be per formed to ensure the integrity of the road, soil, and neithy well ands. This could mean feligs down stone over the road variete, waiting until the ground is foreign using a combination of the two, or even moving the road entirely. Whenever activity with exaipment is undertaken, use dast Management Practicos to onsure water quality.

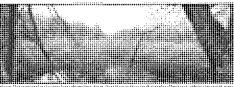
Desired future condition: Consider managing to maintain and enhance diversity of stand structure, size and age class of these, and harcesse species diversity indusing softwoods. Confinue to grow good quality trees of a variety of species. Light shinnings can occur here every 15-20 years. Ensure invasive plants do not become established following their cutting by vigillant monitoring and early treatment if round.

Corso Property ~ Forest Management Plan 2019

Description:

20

Stand 4.6 is an open wedland located to the north of Stand 2.6 the southern block of the property. The Alfiline Trial acts as this stand's northern boundary. The most common soil appets Cathern and Freetown soils (wedland soils), which make up almost all of the acreage, Ribgebrury, Lelcaster, and Whitman soils (wedland soils) as well as Cathan and Chaliton lines sardy looms are present account the periphery of this stand where days landscapes amongs. Open wedlands are a created component of Connector's forest accology and typically fail under the regulations of local wedland commissions. It is not recommended to transport heavy machines your well-dealed in lang decreasance.



Desired future condition: Consider managing to maintain and enhance diversity of stand structure, size and age class of trees, and increase spaces diversity including softwoods. Ensure investive plants do not become established following tree cutting by regilant membering and early treatment if found.

Recommendation.

Ongoing – Monitor for the presence of imassive plants and remove them where feasible. This is a non-commercial breatment.

Ongoing — Monitor for development and astablishment of trees. Consider felling or girding trees to ensure maintenance of open condition of wetland. This is a non-commercial treatment.

2020 – Consider Installing 1-3 wood duck nearthoxes within and/or wong the perimeter of the wetland if appropriate locations can be determined.

Area 5: Residence (1.1 Acres)

Stund	Sall Symbal	Soll Type	Atres
-	46B	Wendbridge fine sandy lown, () to € percent slopes, very stony	1.1
u		Total	1,1

⁹ Sign rides is a relative measure of tree productivity. The higher the site index, the more productive this cities for the species indicated. A site index of 55, for example, means that a tree of the species indicated a likely to grow to 66 feet in high lifer 50 years of growth. Measurements exhaulted any other because off even in process level will derive information and species.

P A guide to recommended beat minosymment proclams for protecting water quality claims forest management activities in

³¹ Flight eat was chosen because of all the major species in the mand it is the only one based for these soil types.

Description

This is the residence and surrounding open area of the Corao property. There is a lawn and a harrown gandtion zone to the mature forest of Stand 2. Some of the trees in this area have been killed by gypsy

Desired future condition: Continue to manage as a maintainest area. If feasible, increase diversity of vegetation over time slong edges.

Ongoing - Nonitor for the presence of invasive plants and remove them where feasible.

2022 - Depending on how many additional trees die, remove dead and dying trees for safety. Consider replanting along the boundary of stand 5 and 2 with nettive flowers and shrubs that can provide sources of nectar, mast and potentially gover. This is a non-commercial treatment,



Corss Property - Forest Management Plan 2019

2022

 Area 5 - Depending on how many additional trees die, remove dead and dying trees for safety. Consider replanting along the boundary of stand 5 and 2 with redve flowers and shrubs that can provide sources of nectar, mast and potentially cover. This is a non-commercial meatment.

Annually/Ongoing

- Stand 1 and 2 Monitor treated areas for new populations of invasive plants and remove them if
- Stand 3. 4 and 5 Monitor for the presence of invasive plants and remove them where feasible
- Stand 4 Monitor for the development and establishment of trees. Consider felling or gridling trees o ensure maintenance of open condition of welland. This is a non-commercial tre
- All stands/areas Locate, maintain and periodically remark boundaries
- All stands/oreas Maintain roads and trails

2028

All stands – Re-inventory property and develop management plan for next 10-year plan period.

GENERAL PROPERTY RECOMMENDATIONS

- · With any activity undertaken on the property, attempt to:
- 1. Improve forest health and species diversity
- Improve vertical and horizontal structural diversity and complexity, including retaining and recruiting snegs and cavity a assistment datagraph connection to the productive to the goal of the activity. Ensure water quality and soil stability
 Increase accessibility
- Unit spread of finalive plant species. Freat populations of invasives in and adjacent to the area. where these and to be cut prior to forest management activities.

 6. Attempt to create softer edges and/or transition zones from open areas to mature forest.
- Attempt to limit populations of invasive plant species. Keep abreest of information regarding invasive. Insects, especially the emerald sets borer and Asian long-horned beade. Amend pier to salvage imminently infected stems if necessary, Visitiance and re-treatment of invadives will be critical.
- Artempt to breat forested areas on a +/-15-20 year cutting cycle.
- . If aspen trees are encountered during treetments, ettempt to regenerate those areas if feasible to encourage dense sprouting for wildlife habitat.
- Attempt to maintain and enhance vigor and abundance of populations of softwood tree species on the property.
- . Whenever possible, avoid cutting trees during the songbird breeding season file, early May-early August), if NRCS cost-share lunding is used for tree cutting purposes, no tree cutting will be allowed shetween April 1 and as late as October 1.
- * Attempt to recruit some large trees scattered throughout the property, even if these trees are not "wolf trees" to increase structural diversity. These large trees could become "legacy trees" and be allowed to mature and die naturally.
- Locate, maintain, and consider painting all boundary lines.
- Maintain roads and trails to maintain access and limit erosion throughout the property.
- Where and when appropriate consider working with adjacent landowners to "manage across
- During or after forest management activities that involve cutting trees, consider pfling tops of some felled trees to increase value for wildlife. Pile tops near edites of openions where they exist and limit plies to no more than 2-3/acre, See Appendix A for NRCS recommended brush pile construction
- Follow Connecticut's Field Guide for Best Management Practices for Water Quality while Harvesting Forest Products during any forest menagement operations.

Corso Property - Forest Management Plan 2019

SUMMARY OF SCHEDULED ACTIVITIES 2019-2028

		Corso Property				
ļ	Summary of Scheduled Activities 2019-2028					
Year	Stand/ Area	Treatment				
2019	1.2	Monitor pair trees and consider salvaging if necessary and desired				
2020	1-2	Monitor pak trees and consider salvaging it necessary and desired				
2020	1-2	Treat invasive plants				
2920	2	Address wet area in access road				
2020	4	Consider Installing 1-3 wood duck nesting baxes				
2021	1-2	Conduct follow up treatment for invasive plants				
2021	1	Release destructe regeneration and huddeberry using small group selection.				
2021	2	Release distrable regeneration and huddieberry using small group selection. Consider thinning between group selections.				
2021	3	Consider creating some small canopy gaps				
2022	. 5	Consider plantings for nectar, mast and cover.				
Ongoing	1-2	Monitor treated areas for new populations of invasive plants and remove them if noted				
Ongolog	3-5	Monitor and remove invasive plants				
Ongolog	4	Monitor for development of traces. Cut them to ensure retendon of open condition.				
Ongoing.	All	Continue to maintain roads, trails and other infrastructure				
Ongoles	All	Mark and periodically maintain boundary lines				
2028	Ali	Re-loventory property and update forest management plan				

STAND SPECIFIC PROPERTY RECOMMENDATIONS

2020

- Stand 1 and 2 ~ Trout invasive plants. This is a non-commercial beatment.
- Stand 1 and 2 Inspect these areas for pak mortality that could/should be salvaged. This is a non commercial treatment due to minimal volumes to be removed. This could be done in 2019 as well.
- Stand 2 Address the wet area in the access road to maintain and/or improve future access
- Area 4 -- Consider installing 1-3 wood duck nest boxes within and/or allow the perimeter of the well-out if appropriate locations can be determined.

- Stand 1 and 2 Treat/Invasive plants, This is a non-commercial treatment.
- Stand 1 Consider etternoting to regenerate up to K of the stand. This should be considered especially where destrible advance regents attorn (i.e. white oak seedings and small soptings) currently exists. Treatments should include creating overstory canopy gaps above existing regeneration where it also makers sense based on composition and condition of overstory trees (i.e., if the overstory tree species use less desirable than the regeneration and/or if the overstory trees are declining or are in otherwise poor health). Oreste gaps of up to its some or slightly larger till tringkes sense based on ground conditions. Working with and an adjacent neighbor to the north can enhance the functionality of these treatments and may also facilitate access to the propenty. This will be a non-commercial
- Stand 2 Consider attempting to regenerate up to 16 of the stand. This should be considered especially where desirable advance regeneration (i.e. white oak seedlings and small suplings and/or healthy huckleberry) currently exists. Treatments should include creating overstory canopy gaps above existing regions and condition where it also makes sense based on composition and condition of overstory trees (i.e. if the overstory tree species are less deskable than the rageneration and/or if the overstory trees are declining or are in otherwise poor health). Creategaps of up to M acre or slightly larger (if it makes sense based on ground conditions. If thiswing is to be done between gaps, retain a basal area of approximately 80 square feet/ages, This will be a non-commercial operation.
- Stand 3 if desked, consider creating some small cappy gaps in the northeastern block of this stand In conjunction with work being done in Stand 1. This can be done by wither felling and leaving felled trees to create additional sasurative on this forest floor or girdling some trees to create pockets of standing dead snags. The purpose for creating canopygaps is similar to treatments recommended in Stands 1 and 2, which is ideally to enhance structural attributes (i.e. maintain dense netire understory) and to consider keeping open areas open. Retaining existing unage, cavity trees, and softwoods is important. All these treatments will be non-commendial.

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NRCS PRACTICES TO APPLY FOR

Stand	(Acre)	Practice Code*	Treatment Activity (Short Description)	Planned Date**	Completed Date	Assistance Program Used?	Gast	Income
12	13.4 sc.	314	Invadvez plant reatment	2020- 2021+				
2	150 Roear fs.	655	Improve trail drainage	2020				
4	1-3 boxes	649	Wood duck haves	2029				
1.2	13.4 ac.	656	Release regeneration:	2021				F
3	0.34 ac.	(G)	Create conspygaps	2021				
5	D.14 ac.	327	Plantings	2022				

27 28 29 Corso Property - Forest Menagement Plan 2019 Corse Property - Forest Mavegement Ran 2039 Corso Proverty - Forest Management Plan 2019

SOURCES CONSULTED AND/OR CITED

Auduban Connecticus, Farest filled Habitat Assessment: Racy Property, March 1, 2016.

British Columbian Ministry of Forests, "Stand Level Biodiversity Web Based Training Course - Modife 3A",

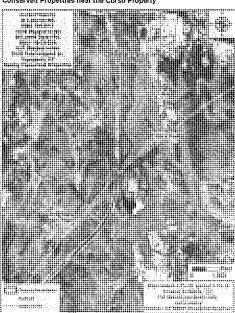
http://www.fcr.gov.bc.ca/hfp/train.hg/00001/module03/standstructure2.htm, accessed on January 2, 2013,

 $Connecticut \ Wild if e \ Brush \ Piles - 645 \ (Draft Job Sheet). \ Natural \ Resources \ Conservation \ Service. \ Revised \ July \ 2015.$

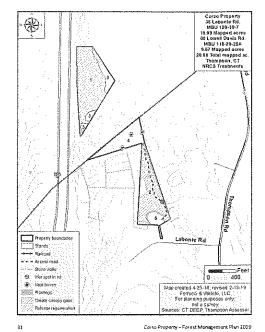
Hagenbuch, Steve, Katherina Manaras, Ilm Shallow, Kristan Sharpless, and Mithael Snyder. Silviculturs with Birds in Mind. Hundington & Waterbury, VT: Audubon Vermont & VT FPR, 2011. Printed guide.

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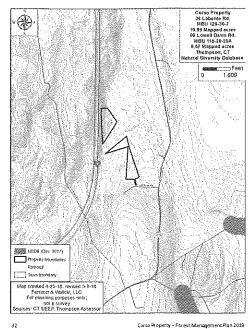
Conserved Properties near the Corso Property



MAPS - CORSO NRCS TREATMENTS MAP

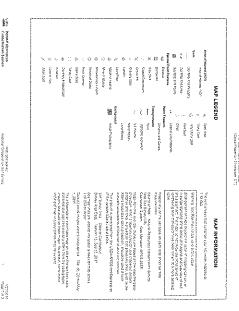


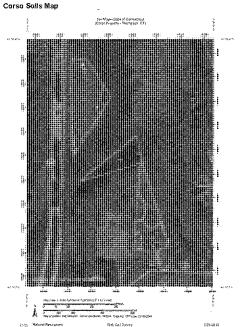
Corso Natural Diversity Database Map



Corso Solis Charts

35





Map Unit Legend

Mup Dog Symbyl	Stop Gree Name	Acres In AQ1	RAP to Sesson 4
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20 0 00	Kabural Resolutions	Med St. Survey	931 <u>25</u> 13
	Conservation Service	Football Cooperating Soil Gravey	Page 3 of 3

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An inventory of standing trees during which information about species, size and other characteristics is

A tree of such poor quality that it is not suitable for sawtimber. Culls are sometimes sold for firewood.

Olemeter of a tree outside the back measured at breastheight

A tree with a hollow or cavity large enough to potentially be used by wildlife (a.k. a. cavity izee)

even-age management

Marketing trees in such a way that it creates a single or two age dasses in a stand.

A condition in which seedlings, saplings, or other smaller, younger vegetation has sufficient sunlight to allow them to continue to develop. This is achieved when there is little to no competing vegetation overtopping the smaller vegetation.

To attempt to kill a tree by cutting through the outer bark and camblum around its entire circumference.

hardwood

A deciduous, broadleaf tree. Anglosperm

A fogging practice in which only the best trees we removed leaving poper quality and/or damaged trees.

A type of log (measuring) rule, The international Rule is the legal standard for measuring sawtimber in

live crown ratio

The ratio of live proves length to to tal tree height.

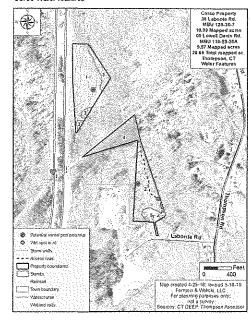
Seeds and nuts produced by trees and shrubs. Mast is often discussed in terms of hard and soft and is crudal to providing food for wildlife.

39

One thousand board feet (of sawtimber) or *a thousand*.

Level of strate of the forest layer from between 5-30 feet in height. Dense follage in this stratum is Important for nealing and cover for many forest breeding birds and other wildlife

Corso Water features



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A forested area that contains both hardwood and softwood tree species in the main canopy, Typically a refixedwood stand contains between 25-79% softwood.

The portion of trees in a stand which form the upper canopy.

overstory removal

An even age slivicultural treatment type in which most or all of the overstory trees are removed in order to release established regeneration.

Trees from 5 to 11 Inches digmeter at breast height (4.5 feet above ground). Also pole or pole tree,

New Year, generally seedlings, saplings and sprouts. Regenerating a forest involves replacing existing trees with new ones.

To free a desirable tree from competition by cutting or otherwise killing one or more adjacent competing. trees or shrubs

A tree from 1 to 5 faches d'ameter.

sawleg A log that is straight, large and sound enough to be sawn into boards. Sawlegs are usually at least 8 feet long and ten inches or larger in diameter.

A tree large enough to contain at least one sawlog. (Saw)timber trees are usually twelve inches or larger In diameter outside the back at breast height.

A tree from newly germinated up to 1 Inch diameter.

Selection System

A silvicultural system involving the removal of individual treasors groups of trees at regular intervals. This system tends to promote the development of uneven aged forests.

A silvicultural system whereby new trees are regenerated under the partial shelter of other trees. This system is one of the options available to regenerate a stand or part of a stand to create an even aged or two-aged forest. (The latter occurs when the overstory treas are not removed following the successful regeneration of trees in the understood.

silvicultural system

A planned program of silvicultural treatments during the entire life of a stand. The main locus is on the methods used to obtain desirable regeneration.

GLOSSARY

acceptable growing stock (AGS) Trees that are algorous and now or in the future are capable of producing a staylog that is at least 8 feet.

The general direction in which land slopes

A commonly used measure of forest density or stocking. It is measured at the cross sectional area of a tree in square feet at 4.5 feet above ground.

The stocking level considered optimal for sawdinber growth.

A measurement unit for lumber volume. One board foot is a piece of wood 1 foot long by 1 foot wide by 1 inch thick (Appreviated b.l.)

breast height

Measurement at which diameter is generally measured for inventory and timber taky purposes. Breast height is measured at 4.5 feet above the ground. Where there is any slope, breast height is always measured from the highest part of the slope where the ground intersects the bree.

An even-age stivicultural technique in which all the bees in an area are severed and - typically - removed.

Silvicultural idearcuts generally remove all treas above 2 inches dbh. Commercial dearcuts or "high-grades" remove all the bless of value lessing poorer quality trees of a variety of diameters.

A modified dearcut in which the majority of the trees in an area are cut, but some minimal trees are left standing. Typically reserve trees will allow to mature and will not be out. This differs from a shelterwood or seed the harvest in that residual trees following the initial regeneration out are intended for removal.

A length of tree stem or cut log that has no horizontal (i.e. side) branches.

A sprout from roots or stumps. Or a practice of cutting a tree or group of brees to cause them to resprout from the stump or roots.

A measurement unit for firewood. One cord of stacked wood measures 4 feet by 4 feet by 8 feet, 1 cord contains \$5 cubic feet of solid wood. (Ahbreviated cd)

The top of the tree, including the live branches and the leaves.

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sthiculture

The science and the art of growing and tending trees for a variety of purposes.

The debris left after logging, pruning or thinning. Slash can include tree tops and unused or unusable cordions of the main stems of trees.

softwood A conferous, frequently "evergreen" tree. A gymnosperm. Common examples include pine, hamlods,

spruce, ifr, cedar, and larch (though the latter is not every eas).

A group or community of trees willidently uniform with respect to size, species composition, spatial arrangement, age or condition to be distinguished from priving props of trees.

An indication of the amount or density of trees in a stand.

The different heights of vegetation in the forest. Typically divided into understory, midstory, overstory or superstory. The latter exists when a few trees are at least twice as fall as most trees in the stand.

stumpage Standing trees, usually associated with volume information and intended for sale

A cutting done in immature stands in order to maintain tree health and viscor, attriviate the prowth of the trees that remain and increase the total yield of useful makerial from the stand.

The relative ability of a tree species to survive and/or grow in shade.

timber stand improvement (FSI)

improving a stand of trees, usually by pruning, cuil-tree removal or pre-commercial thinning.

unacceptable growing stock [UGS]

Trees which are either incorpable of producing at least an 3 foot long sawing now or in the future due to defect, rot, branches, etc. or are in poor health, have significant decline/dieback, or are likely to succumb to insect or disease mortality in the near future.

Vegetation in the lower levels or strata of the forest Frequently is composed of tree sendings and springs, shrubs, herbaceous species and/or invasive plants. Danse low-growing vegetation and follage is important for many grades of wildlife which use this stratum of the forest for cover, nesting, and foreage apportunities. Can be considered between ground level to 5 feet in height.

uneven age management

Managing treas in such a way that it creates three or more age classes in a stand. The selection system is most often used to develop uneven-age stands.

APPENDIX A: BRUSH PILE CONSTRUCTION

Connecticut Wildlife Brush Piles- 645

Conservation Practice Job Sheet A mound or pile of appropriate woody material, fashioned by piling brush and loose branches on

top of a base comprised of larger logs, or other natural materials, to provide cover for wildlife where cover is limited.

Purpose
This practice is used to create cover for many songbirds, small nummals, reptiles, and amphiblans when patural cover is fimited; such as after clear-cutting, it provides areas for nesting, resting, escape from predetors, and protection from harsh weather conditions.

Criteria, Considerations, and 5 pecilications Brush piles may be built to various dimensions based on the size of available material; however, the size should range between 10 to 20 feet on a side and 4 to 8 feet high.

Brush piles can be constructed using a variety of materials. Commonly, materials left from timber harvesting, woodland edge development, forest stend improvement, forest opening development and firewood cutting are utilized.

Natural features, such as rocks, boulders, and stumps may also be incorporated.

Construction

1. Base Layer:

a. Logs at a minimum of 6-10 Inches in diameter are laid at various angles, leaving small openings (6 to 8 inches wide) between base logs for easy wildlife access. Avoid creating parallel runways through the

Lifespan - f Year

b. Logs of various lengths (that add up to 10 to 20 feet on a side) can be staggered throughout the foundation, with breaks. creating a maze-like

c. Duter logs should be closer to 20 feet in length to provide subfilty for the brush pile.



2. A second layer of smaller diameter logs should be laid on top end roughly perpendicular to the first have lover. In the same fashion, and repeated with increasingly smaller logs, 1-3 times.



2-4 feet of brush, using small limbs, saplings, loose brush, and gine boughs. Larger branches should cover the foundation, and smaller branches placed on top.



4. Brush should toosely drape over the edges, with openings (6 to 8 inches in diameter) left on the sides in several pleces for easy wildlife access and ексере.



NOTE When constructing brack piles using mechanized farestry equipment, it is not possible to construct piles exactly as described. It is mitable if larger logs are crisscrossed on the base and covered with increasingly-smaller logs and fleatly brush, so long as adequate spaces are left for wildlife to enter and exit the pile.

Several considerations should be made when

- placing brush piles:

 Multiple brush piles are better than one large pile, providing more apparturities for cover and escape from predistors.
- Good locations include adjacent to forest openings, pastures or hay fields; within show thickets or fencerows; in field curners: near stonewalls and we hands
 - e. On properties with little natural cover, such as after a dear-out. begin brush piles within 25 feet of woodland edges, and build in towards the center of the habitat patch, resulting in 1-4 brush piles per acre, evenly distributed across the project site.
- Place new wildlife food sources, such as most and full trees.
- · Avoid plading brush offes on existing high quality food or cover sources.
- Avoid placing trush pites near honses, favore. wildlife could become a nuisance.

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fammability.

- Variations for Emish Pile Base

 Tree stumps still in place can be Incorporated into your brush pile base. Several logs (6 to 10 Inches in diameter and 5 to 6 feet long) are placed on top of and around the stump.
- . Small rock piles these should be staggered about 12 Inches apart with each pile about 10 inches high and 12 inches ecross to support next layer of ilmbs. Existing boulders and racks on the fandscape can be piled together to provide additional den sites; start with the lergest rocks on the bottom of the stack to create hiding places between the rocks, and stack brush on top for additional cover.



Other Types of Cayer (not for reimburseyment) Living brush pile - take a cluster of small

- dismeter trees, each tree is cuthelf way through the trunk about 12-18 inches above the ground: treatizes are folded Inwards towards other trees in groups so they rest on the ground or on top of the other half-cut trees.
- · Stonewalfs may be incorporated into the brush piles base; brush should be placed against the wall with similar

- dimensions and distribution to brush piles created in an open space.
- · When hervesdag trees, leave the crowns of the largest trees (e.g. an oak treetop) for wildife cover.
- Windrowed brush piles typically these linear brush piles can best be created following a forestry or tree removal operation. As with other brush offe creation, larger materials should be placed on the bottom at various angles with subsequently smaller material on top. Avoid packing the leas tightly, as this will eliminate way openings for wildlife to enter and exit the linear pile. Windrows should range from 10 to 20 feet on a side and 6 to 8 feet high. Windrows should have breaks built into them every 50 to 100 feet to provide travellanes for wildlife.

- . Brush piles are not permanent; new brush needs to be added over time or new piles may need to be constructed. Rot and decay is a netural process and may attract more insects, providing additional food sources.
- Do not use materials that contain toxic substances (f.e. pressure treated lumber/posts, creosote rallroad ties, lead painted surfaces, tires, etc.). These substances can cause wildlife mortality either through contact, consumption, or anhalation

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Agenda Item E.c) Applications Received After Agenda was Published

None

Agenda Item F) Permit Extensions / Changes None

Agenda Item G.a) Violations & Pending Enforcement Actions

Notice of Violation **VIOL21023**, Jamie Piette, 0 & 73 Center Street (Assessor's map16, block X, lots H & 2), unauthorized construction of retaining wall and associated backfill in or near Little Pond, issued 8/24/21 - status.

Agenda Item G.b) Violations & Pending Enforcement Actions

Notice of Permit Violation **VIOL21036**, Permit IWA20022, Marc Baer, 1227 Thompson Rd (Assessor's map 116, block 24, lot 10), grades not as authorized in modified plan approved by the Commission on 2/9/21.

Agenda Item G.c) Violations & Pending Enforcement Actions

Notice of Violation **VIOL22008**, Rodney Lamay, 0 Quaddick Town Farm Road (Assessor's map 160, block 11, lot 15), unauthorized clearing, cutting & grading in wetlands, issued by Acting Wetland Agent 3/21/22 – status.

Agenda Item G.d) Violations & Pending Enforcement Actions

Notice of Violation **VIOL22014**, Jason Chin & Dannielle Lohler, 150 Wilsonville Rd (Assessor's map 77, block 46, lot 29), construction of detached garage in 100-foot upland review area, issued 6/6/2022 – status.

Agenda Item H Citizens Comments on Agenda Items

Agenda Item I Other Business

a) Training Options

b) Update on Proposed Revisions to Subdivision Regulations.

Agenda Item J Reports

- 1 Budget & Expenditures
- 2 Wetlands Agent Report

Agenda Item K, Correspondence - None

Agenda Item L, Signing of Mylars -None

Agenda Item M, Comments by Commissioners

Agenda Item N, Adjournment