

INLAND WETLANDS COMMISSION
TUESDAY, January 12, 2021
ZOOM Meeting

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

Agenda Item C.a.
Action on Minutes of Previous Meeting
Minutes of December 8, 2020



Town of Thompson
Inland Wetlands Commission
815 Riverside Drive
North Grosvenordale, CT 06255
860-923-1852 (Office) email: wetlands@thompsonct.org

RECEIVED
TOWN OF THOMPSON, CT.

2020 DEC 10 P 3:23

Linda Paradise
TOWN CLERK, ASST

INLAND WETLANDS COMMISSION TUESDAY,

December 8, 2020 7:00PM

ZOOM Virtual Meeting

- A) Call to Order & Roll Call – The call to order was by Chair George O’Neil at 7:04PM via Zoom.
Present: Chair George O’Neil, Marla Butts (Wetlands Agent), Diane Chapin (Treasurer), Barbara Roach, Francesca Morano, H. Charles Obert entered at 7:08pm
Others Present: Amy St. Onge (First Selectman), Janet Blanchette (J&D Civil Engineers), Dale Harger, Marc Baer
- B) Appointment of Alternates – Chair O’Neil appoints Alternate Commissioner Barbara Roach as a full voting member for this meeting.
- C) Action on Minutes of Previous Meeting
a) Minutes of November 10, 2020 – No objections to the minutes, they will stand as read.
- D) Citizens Comments on Agenda Items - None
- E) Applications
a) Old Applications
1. **WAA20009** Hallet T. Merrick, 0 Plum Road, Assessor’s map 85, block 52, lot 12, construction of single-family home, septic system and portion of home proposed in 100-foot upland review area, stamped received 4/13/2020, under review pending receipt of additional information – Approval from NDDH came through but M. Butts is still waiting on receipt of revised plans. A soil scientist is to look at the portion of Plum Road to be improved, M. Butts is waiting on information regarding that as well.
 2. **WAA20031**, Madison Avenue Investments, LLC, 0 Madison Ave. (Assessor's map 103, block 31, lot 6K, subdivision lot 11), driveway and grading for new single-family home, stamped received 8/3/2020, additional information under review – M. Butts received an as built via email and letter that there was no need for cross culverts. The driveway was already partially built before any permission was given. M. Butts will be sending a letter to see what additional work is to be done in the upland review area. She would also like an explanation why they built part of the driveway without any approvals. This is on hold pending more information.
 3. **WAA20033**, Madison Avenue Investments, LLC, 0 Madison Ave. (Assessor's map 103, block 31, lot 6R, subdivision lot 18), septic system for new single- family home, stamped received 8/12/2020, additional information under review – M. Butts received an as-built drawing and received language for the easement that was filed on land records. It appears no one had the easement language cleared through Town Counsel to make sure it is adequate. There are discrepancies between what was approved and what was built, M. Butts will be sending a letter for explanation on differences. She will be forwarding the easement language to the First Selectman’s office and asking Town Counsel to review the drainage easement to be sure it meets the needs. On hold pending resolution of those issues.

4. **WAA20040**, Laura Hauser, 31 Center St. (Assessor's map 116, block 30, lot 3A), reconstruction of a single-family home in 100-foot upland review area for Little Pond, stamped received by the Town Clerk 9/18/2020 and 10/5/ 2020 by the Wetlands Office, under review pending additional information – M. Butts received correspondence from Daniel Blanchette of J&D Civil Engineers. NDDH wanted modifications on the septic design, he will send those revisions to them. On hold until NDDH approves the septic design.
5. **WAA20043**, Gary Rawson, 0 Logee Rd. (Assessor's map 141, block 17, lot E), construction of a new single-family home in the 100-foot upland review area for Quaddick Reservoir, stamped received 10/29/ 2020, under review pending additional information – Last week M. Butts spoke to the engineer for the applicant. The current design has the house next to Quaddick Reservoir and the septic is across the road on another property owned by Mr. Rawson. NDDH will not approve the septic design until there is an easement given for the lot that the septic will be on. On hold pending NDDH approval.
6. **IWA20044**, Town of Thompson, W. Thompson Rd (Assessor's maps 48 & 50, blocks 104 & 103, respectively, no lot #), replace existing culvert carrying Wheaton Brook under W. Thompson Rd, stamped received 11/2/2020, statutorily received 11/10/2020 – Janet Blanchette is present to discuss this representing the Town of Thompson. Ms. Blanchette reviews what was discussed last meeting, the only new difference is the wall shape at the end of the culvert. They will be simplifying the end walls to be cheaper, easier to construct and to fit in the trucks for delivery better. M. Butts has reviewed the plans and finds no problem with the proposed work. **A motion is made by C. Obert to approve this action, seconded by F. Morano. All in favor, application is approved.**
7. **WAA20045**, James Fogarty, 0 Brickyard Rd. (Assessor's, map 38. block 87, lot 6), construction of a driveway in the 100-foot upland review area for a new single-family home, stamped receive by the Town Clerk 11/3/2020, issued 12/3/2020, legal notice to be published 12/11/2020, appeal period ends 12/25/2020 – Legal notice had a complication being published, hopefully will be published next week, no further action at this time.

b) New Applications - None

c) Applications Received After Agenda was Published - None

F) Permit Extensions / Changes

- a) **IWA20022** (includes **VIOL20042** NOV issued for exceeding scope of permit), Marc Baer, 1227 Thompson Rd., Assessor's map 116, block 24, lot 10, construct house, well, septic system, driveway and associated grading, request to authorize modifications to approved plans – On Nov. 18th M. Butts received drawings from Daniel Blanchette, one containing an as-built of the retaining wall and two sheets to modify the approval. Originally there were just 3 retaining walls and a revetment, now there are stairs in the revetment, stairs in one of the retaining walls and the retaining walls are proposed to be made of boulders instead of concrete blocks. Mr. Baer requested that the plan submitted to M. Butts be approved as a modification to Application IWA20022. B. Roach asks about the revetment taking 350 sq ft of land that is not his. She states even though he says he is giving land back on the other side, deeded property documents will not show that. Mr. Baer speaks, he says when this wall was built, the revetment was built at the edge of the water. The retaining walls are being changed to boulders to make it look better for the town, to be more natural looking instead of concrete blocks. He states the neighbor next door, Mr. Harger built a wall without permission and the Commission did not give him as much of a hard time as they are giving Mr. Baer. Dale Harger, the neighbor next door says his wall was built with a permit without any issues that he is aware of. Mr. Baer asks M. Butts to clarify that since he states she told him differently. M. Butts says the first information she had regarding his wall was when she was contacted a number

of years ago by a mason who was asked to rebuild a wall. He asked if he needed approval, when M. Butts went to look at it there was already a wall that was built that was failing that had been there without approval. In order to rebuild the wall, he rebuilt at the same location as the wall that was there. M. Butts does not know if the previous wall was built along the shoreline. Differences between Mr. Harger's wall and Mr. Baer's wall is there was no record of the shoreline prior to the wall being built for Mr. Harger, with Mr. Baer's property, the line was clearly on the plans and the contractor had those plans and could have built the revetment going along the shoreline. She states the revetment built there now was well built and she has no problems with the change from concrete to boulders for the retaining walls. She states any portion of the revetment that was beyond the property line, the Commission shouldn't authorize, it should be denied and take no further action. Amy St. Onge asks if the revetment is entirely built at this point, and does M. Butts suggest approving except for the portions that might be in the water at this point because the water levels have risen? M. Butts states the original site plan showed the property boundary being at the water's edge at the time it was done. The toe of the revetment was supposed to be at the end of the property line. What happened is it extends beyond the identified property boundary line. It was very clear in the permit, it had a condition on it, no other work could occur until an as-built drawing was submitted to the Commission and the Commission approved it. Chair O'Neil asks if this was just a mistake due to the weather conditions, M. Butts believes it started that way but then the water was coming up and the contractor continued anyways. B. Roach asks what kind of precedent this will set if it is approved that the wall is built into the lake? Chair O'Neil asks what the practical alternatives are? M. Butts says the error the Commission might have made, in the future there should be a requirement that the location of a revetment be identified by a land surveyor prior to construction and marked in addition to the as-built due to pond waters going up and down. Mr. Baer has asked for a building permit and M. Butts has not signed off on it because of these as-built discrepancies. If there was knowledge that this was done knowing that it was wrong, then there could be a cease and desist order put on record for this property. **A motion is made by D. Chapin, seconded by F. Morano, to conditionally approve requested modification to Permit IWA20022 by Marc Baer for construction of a revetment and three retaining walls as shown on plans entitled "Site Development Plan Prepared for Mark Baer 1227 Thompson Road – Thompson, CT" prepared by J&D Civil Engineers, LLC (2 sheets) dated June 15, 2020, revised 2020-11-16 and stamped received by the Wetlands Office November 18, 2020 and to deny any portion of the revetment and associated fill that does not exist on Dr. Baer's property on the basis that Dr. Baer has failed to show that he has any rights to maintain those portions of the revetment and associated fill.** Discussion. B. Roach asks can we expect construction will continue like it shouldn't have? There seems to be continued problems with this property. She says there is not anyone who doesn't want Dr. Baer to build this house, it will be a beautiful addition, but there is just continued problems with this property. D. Chapin agrees with B. Roach's assessment of the whole process but looking at it in terms of where they are and what conditions can and can't be accepted, she does think it is time to move forward and approve this as stated. **Vote on the motion – B. Roach – Yes with conditions as read, C. Obert – not online, D. Chapin – Yes, F. Morano – Yes with the conditions, Chair O'Neil – Yes. All in favor, no answer from C. Obert. Conditional approval has been granted.** M. Butts will draft the modification for the permit and process it within the next week or so. Building permit pending approval, M. Butts will give her signature next time she is in the office, most likely Thursday. Mr. Baer asks if he can move forward now and put in his stairs and retaining walls and foundation. M. Butts says yes for stairs and retaining walls, but the foundation needs to wait until the building permit is approved.

G) Violations & Pending Enforcement Actions

- a) **Cease & Restore Order VIOL20003** Scott Josey, 637 East Thompson Road, Assessor's map 154, block 5, lot 14: filling of wetlands and work within 100-foot upland review area, issued 3/5/2020, hearing and decision 3/10/2020 soilscientist report submitted 5/10/2020 approved,

and to be work completed by 9/15/2020 – No action taken, nothing to report, M. Butts has not been out to do site inspections.

- b) **VIOL20013**, Adrienne Martin and Joseph Fagan, 208 Linehouse Rd, Assessor's map 36, block 70, lot 4, clearcutting of trees and earth moving work in 100-foot upland review area, Notice of Violation issued 5/14/2020 to remove the slash, pull back the soil along the eastern property boundary to a grade no steeper than 3:1 (i.e. 3 feet horizontal to 1 foot vertical) by 6/1/2020 and immediately following the completion of this work, seed and mulch all disturbed soils, 7/14/2020 granted extension to 10/1/2020 for completion of work - No action taken, nothing to report, M. Butts has not been out to do site inspections.
- c) **VIOL20033**, Jennifer Burlingame & Robert Lemieux, Jr., 480 Quaddick TownFarm Rd., Assessor's map 158, block 20, lot 8K, filling / earthmoving within 100-foot upland review area and possibly within delineated wetlands. Notice of Violation issued 8/6/2020 to cease any further earthmoving work and by August 20, 2020 provide an explanation for the earth moving work and the reason why an approval was not sought prior to the initiation of work within 100 feet of delineated wetlands - No action taken, nothing to report, M. Butts has not been out to do site inspections.

H) Other Business

- a) Status of Revisions to Plan of Conservation & Development – M. Butts is asking for assistance to review and provide feedback on a draft that she has ¾ of the way developed for Plan of Conservation and Development to assist the town in maintaining its conservation and guiding its development in the future. She is asking for volunteers to review and give editorial feedback. This has to be done within the next week or so. D. Chapin says she would be willing to help depending on the scope of it, she doesn't know how much she can add but she can edit.

I) Reports

- a) Budget & Expenditures – Per Treasurer Chapin the Commission has expended \$89.54 on advertising and office supplies (face shields), available budget of \$15,869.11 expended 38.5% of budget.
- b) Wetlands Agent Report – There is no change on the River Junction Estates Court Appeal, the MS4 Annual Report or the Pre-1990 file destruction. First Selectman St. Onge reports DEEP is pursuing the matter at North Grosvenordale Pond Dam and Centerville Bank is working to address the problems at the Dam.

No site inspections were performed this month due to a quarantine period waiting on a Covid-19 Test Result and work on drafting the Water Resources section for the Plan of Conservation and Development.

Complaint 20-18 – Structure in Jerry's Swamp was reviewed, Permits IWA19004 and IWA17001 were reviewed.

Four Building Permits were reviewed.

Purchase Requisition Status – Pending payment of \$19.54 (P.O. 121188) for Covid-19 protective equipment, Paid \$73.50 (P.O. 121202), Stonebridge Press, legal notice, Fogarty SUB20039 and Kelly WAA20038, Encumbered \$70.00 (P.O. 121231), Stonebridge Press, legal notice, Jasmine IWA20011 and Mileno IWA20041.

- J) Correspondence – 2 documents received, The Connecticut Wildlife Magazine September – October and Eastern Connecticut Conservation District letter from 10-29-20 forwarding their 19-20 Annual Report and requesting continued financial support for consideration in next fiscal year's budget. Chair O'Neil requests it be included in the next budget request.

- K) Signing of Mylars – Subdivision Plan prepared for Gloria and James Fogarty, Kapitulic Road, Thompson, CT (see Conceptual Subdivision Approval SUB20039 approved 10/13/2020) –There is a discussion about a revision on one of the sheets. IWC approved sheet 2 of 4 has no, but mylar has a revision “2020-11-04 SET IR’S”. There is discussion about SET IR’S on that sheets and what IR stands for. It is determined by D. Chapin that it stands for Iron Rods. M. Butts will arrange a time and date for the signing with Chair O’Neil.
- L) Comments by Commissioners – M. Butts would like to say something regarding the conditions at Town Hall. She states the original person who got Covid was hospitalized in the ICU for a period of time, but they are getting better now. The Town Hall now has detailed tracking. If you come to the office, you must sign in and sign out so they can do contact tracing. Even going from one office to another you must sign in and out. Protocols are changing a little bit and she is hoping to work a little bit more from home, but it hasn’t worked out that way yet.
- M) Adjournment – **A motion to adjourn is made by D. Chapin, seconded by F. Morano. All in favor, the meeting is adjourned at 8:38pm.**

Respectfully Submitted,

Ashley Pomes; Recording Secretary

Topic: Inlands Wetlands Commission

Date: Dec 8, 2020 06:46 PM Eastern Time (US and Canada)

Share recording with viewers:

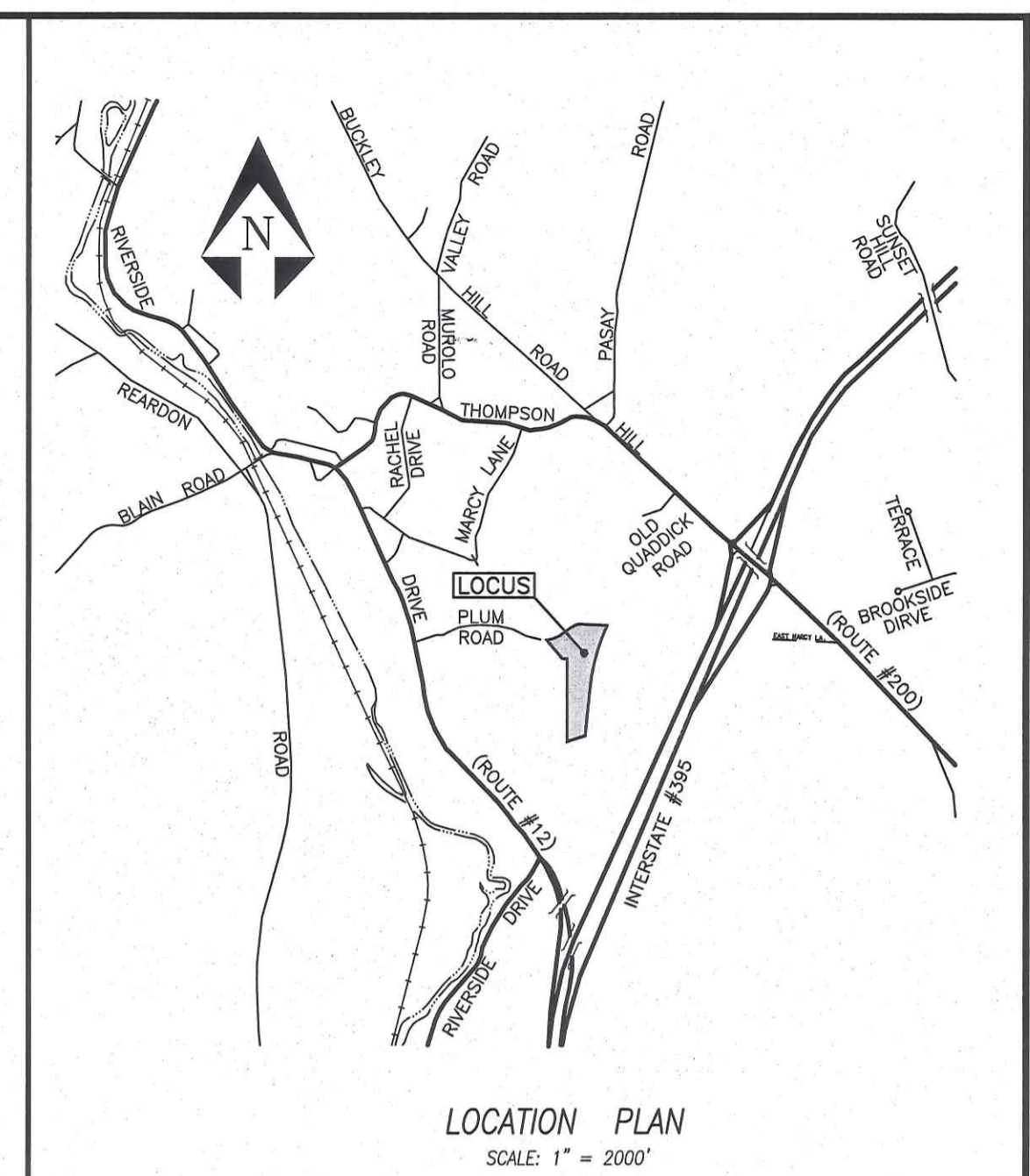
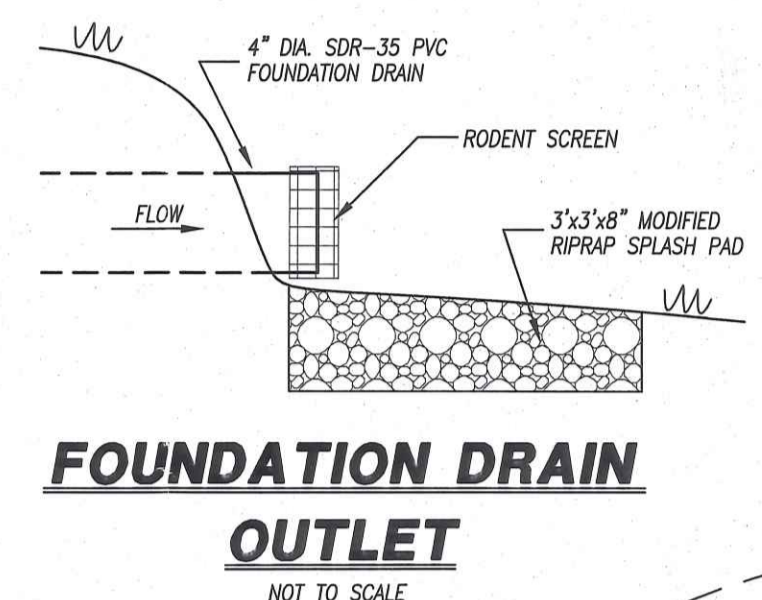
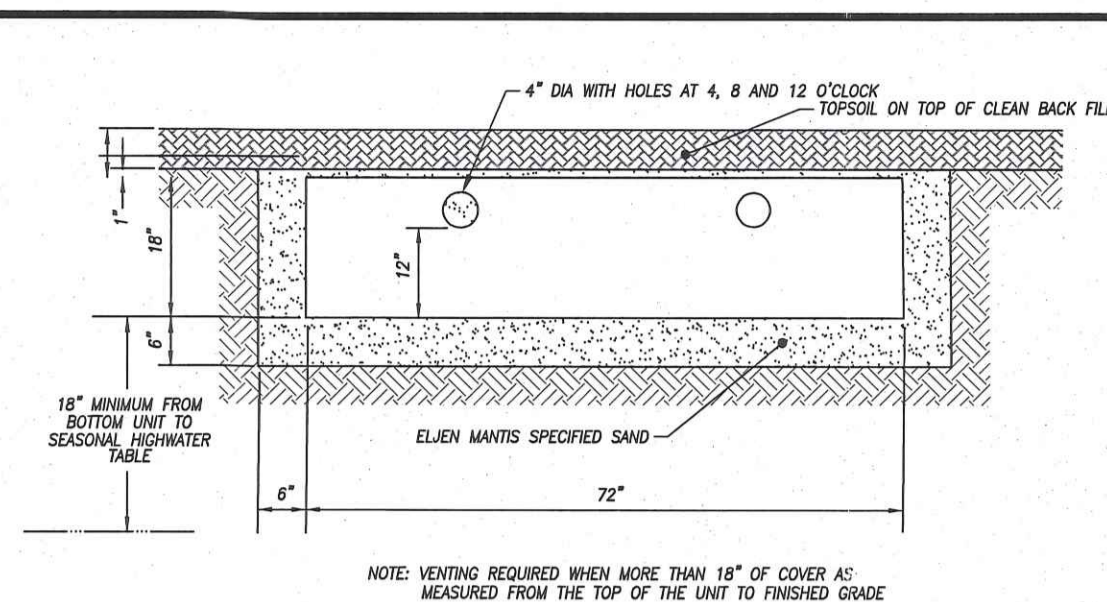
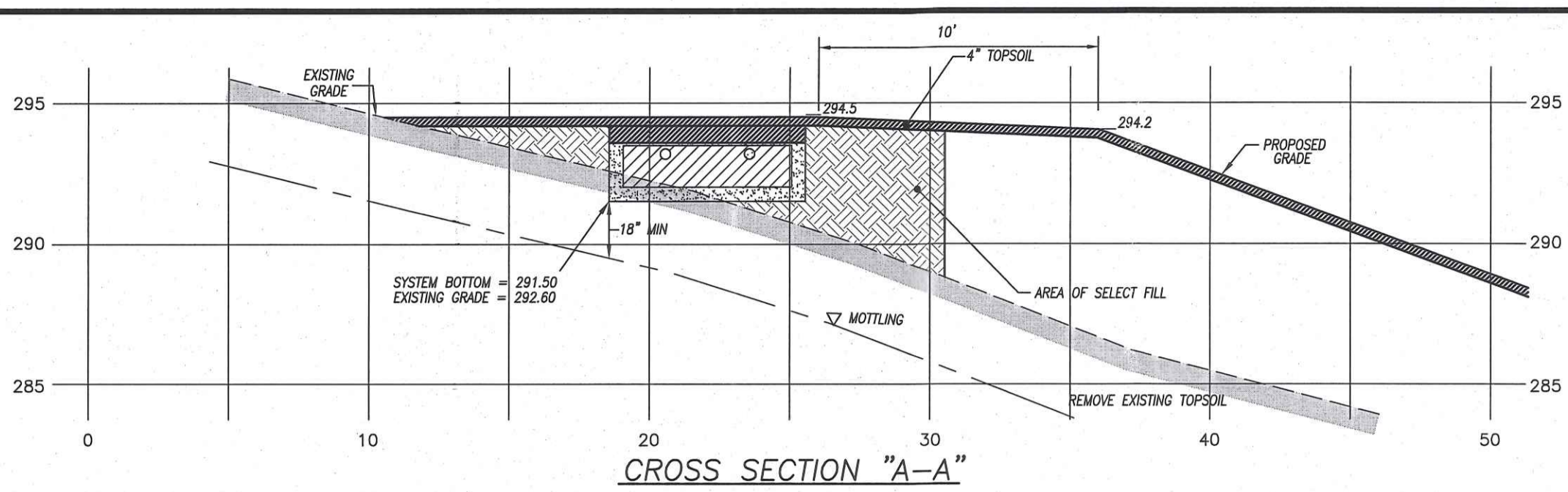
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Agenda Item D.
Citizens Comments on Agenda Items

Agenda Item E.a) 1. Old Applications

WAA20009 Hallet T. Merrick, 0 Plum Road, Assessor's map 85, block 52, lot 12, construction of single family home, septic system and portion of home proposed in 100 foot upland review area, stamped received 4/13/2020, issued 1/4/2021, legal notice to be published 1/15/2021, end of appeal period 1/30/2021.



- EROSION & SEDIMENTATION NOTES AND SEQUENCE OF OPERATIONS**
- The proposed activity consists of the construction of a 3 bedroom house, driveway, septic system and well.
 - Prior to any construction, excavation or filling, all improvements shall be accurately staked in the field by a land surveyor registered in the State of Connecticut.
 - After field staking all erosion sedimentation control devices as shown on the plan and as detailed shall be installed. Properly installed hayboles may be used in lieu of silt fence.
 - All trees and brush within the areas of disturbance shall be removed. All limbs and saplings less than 4" in caliper shall be chipped and stockpiled for later reuse as slope stabilization and mulch material. All trees in excess of 4" in caliper shall be removed from the site and disposed of in a manner consistent with State, Federal, and local regulations. Tree stumps shall be ground on site and incorporated in the wood chip stockpile or shall be hauled off the site and disposed at a licensed facility. Burial of tree stumps is not permitted.
 - Final grades shall be achieved as quickly as possible, and immediately thereafter, sideslopes shall be stabilized with 4" of topsoil. The area shall be seeded and mulched with straw mulch in accordance with the specifications contained herein.
 - All erosion and sedimentation control measures shall be constructed in accordance with standards and specifications of the "Erosion and Sedimentation Control Handbook", U.S. Dept. of Agriculture, Soil Conservation Service.
 - All control measures shall be maintained in effective conditions throughout the construction period and is required to be inspected once a week and after all storm events of 1/2 inch or greater of rainfall. Sediment shall be promptly removed from control structures and disposed of on-site in upland areas outside the buffer zone of wetlands. Any silt fence or hay boles damaged as a result of a storm event or construction activities, shall be immediately repaired.
 - The Town of Thompson shall be notified prior to commencement of construction and at key point during construction so that inspections of erosion and sedimentation control measures can be scheduled.
 - The responsibility for implementation of this plan shall rest with Hallet T. Merrick and Candice J. Merrick, 368 Greenwood Street, Millbury, Massachusetts, 01527, Telephone: (508) 802-3751
 - Seed Mixture:

UPON ACHIEVEMENT OF FINAL GRADES, 4" OF TOPSOIL SHALL BE SPREAD AND SEEDING WITH FOLLOWING MIX:

SEED	185/1000 S.F.
CHEERING RED FESCUE	0.45
REDTOP	0.05
PERENNIAL RYEGRASS	0.20
KENTUCKY BLUEGRASS	0.15
TOTAL	0.85

AFTER SEEDING IS COMPLETE SPREAD MULCH AT THE RATE OF 1 HAYBALE/500 S.F.

11. Schedule of construction activities:

Lot Clearing:	Sep 15 - Oct 1
Site Grading and Foundation Construction:	Oct 1 - Oct 15
Driveway and Septic System Installation:	Oct 15 - Nov 1
Building Construction:	Nov 1 - Jan 1
Loam and Seeding:	Apr 1 - Apr 15

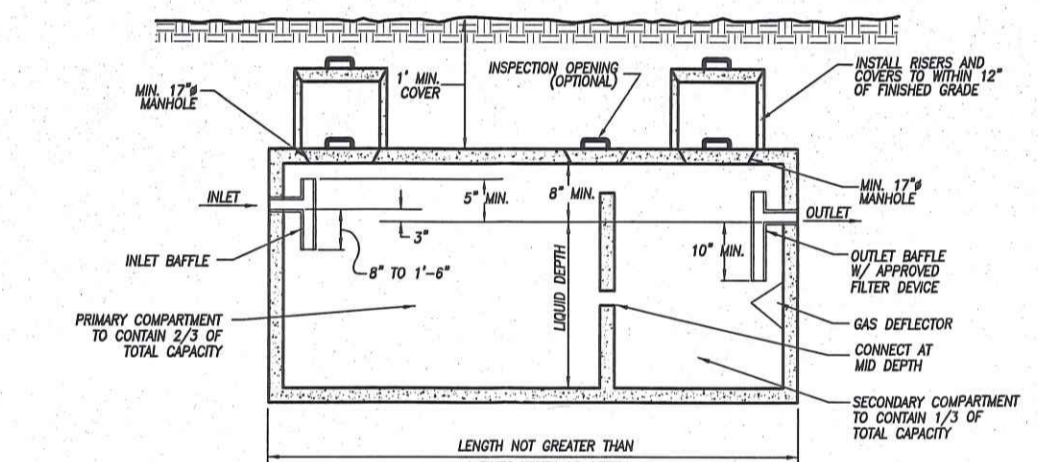
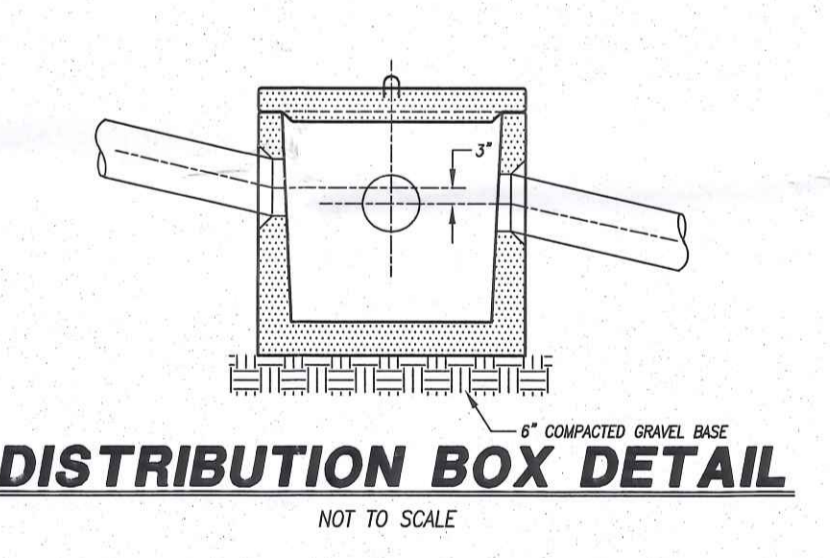
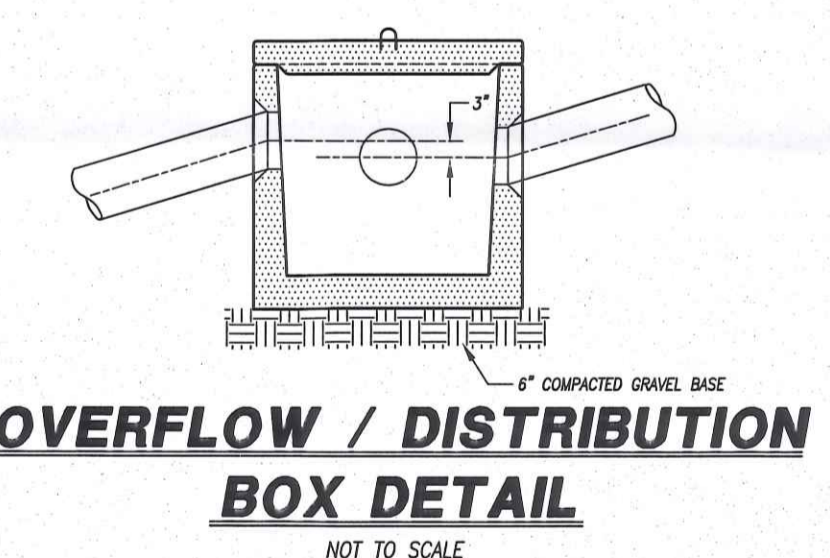
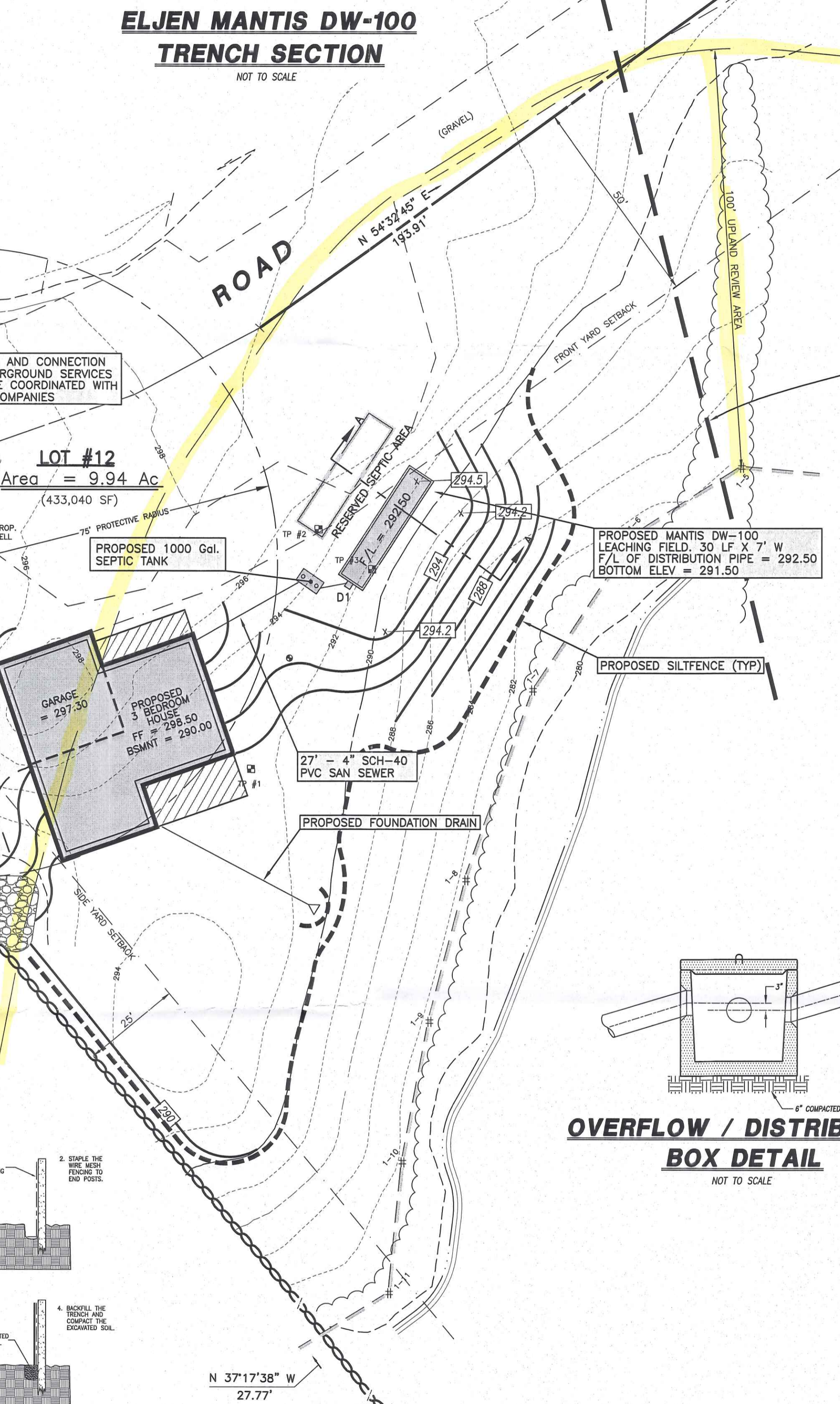
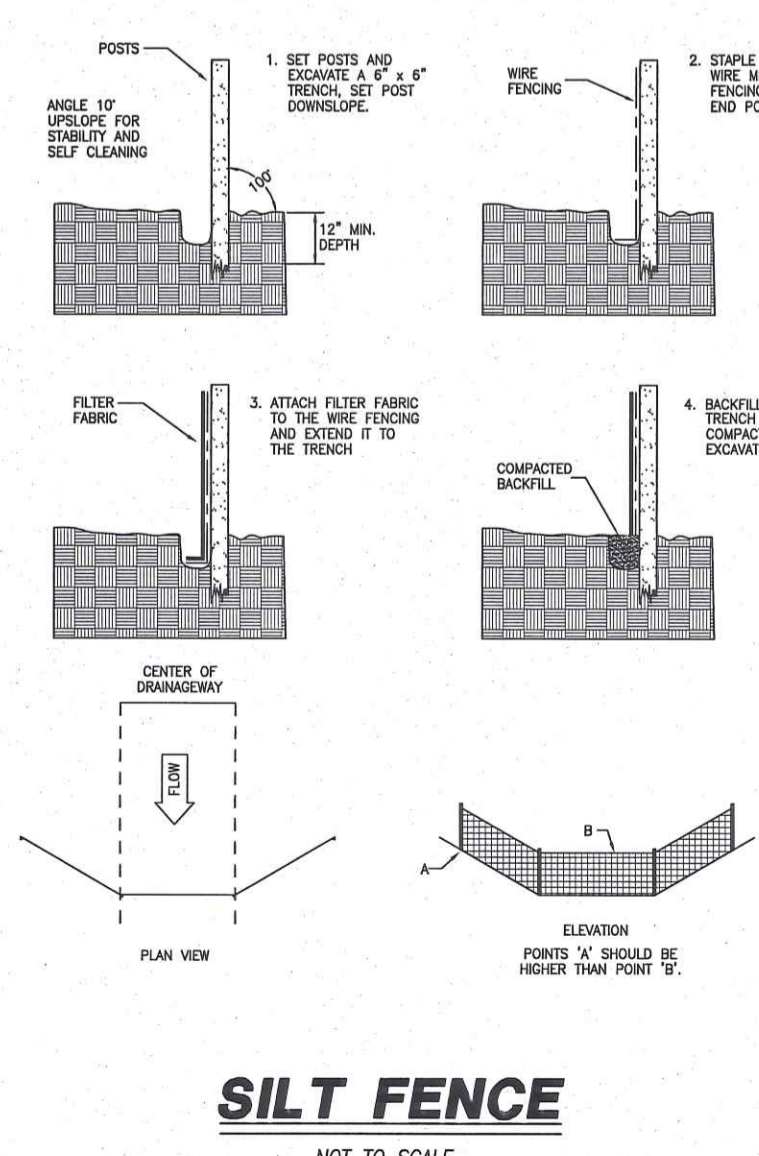
- NOTES:**
- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 28, 1996;
 - Boundary lines and shown conform to a Class "A-2" horizontal accuracy
 - Topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - Survey Type: General Location Survey.
 - Owner/Applicant: Hallet T. Merrick and Candice J. Merrick, 368 Greenwood Street, Millbury, Massachusetts 01527
 - Elevations based on National Geodetic Vertical Datum of 1929. Contours taken from actual field survey. Contour interval = 2'.
 - Lot shown is located in Flood Hazard Zone "C" as shown on FIRM Flood Insurance Rate Map #090117 0012 B, Effective Date November 1, 1984.
 - Parcel is a portion of shown is Lot #12, Block #51 on Assessor's Tax Map #85
 - Northeast District Department of Health file number: 16000213.
 - Wetlands shown were flagged by Robert Russo, Soil Scientist, in April 2016.
 - Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455.

U/G UTILITIES CONDUIT IN TRENCH

- NOTE: 1. CONTRACTOR TO VERIFY SIZES OF CONDUITS WITH RESPECTIVE UTILITY COMPANIES
2. SCH-40 RIGID GALVANIZED STEEL SHALL BE USED FOR ALL SWEEPS

SEPTIC SYSTEM CONSTRUCTION NOTES

- The building and septic system shall be accurately staked in the field prior to construction by a licensed Land Surveyor in the State of Connecticut.
 - Topsoil shall be removed and the area of primary leaching field scarified prior to placement of fill. Fill shall meet the gradation requirements noted below. Fill material shall be approved by the engineer or the sanitation prior to placement. It shall be compacted in six-inch lifts and shall extend a minimum of fifteen feet (15') beyond the last leaching trench before tapering off.
- Septic System Fill Gradation Requirements**
Coarse Fraction (less than 3" and greater than No. 4 sieve): 45% Max.
Fine Fraction:
- | Sieve | WET | DRY |
|---------|--------|--------|
| No. 4 | 100 | 100 |
| No. 10 | 70-100 | 70-100 |
| No. 40 | 10-50* | 10-75 |
| No. 100 | 0-20 | 0-5 |
| No. 200 | 0-5 | 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%.
- Precast septic tanks & distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
 - Solid distribution pipe shall be 4" diameter SDR-35 PVC MEETING ASTM D-3034 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
 - Sewer pipe from the foundation wall to the septic tank shall be centrifugally cast iron meeting the requirements of ASTM A 74 or schedule 40 PVC meeting ASTM-1785.
 - Foundation drain outlet shall be 4" diameter SDR-35 PVC meeting the requirements of ASTM D-3034 with rubber compression gasket joints and backfilled with a non free-draining material.



SOIL PIPE @ BUILDING
F/L = 294.7

SEPTIC TANK
1000 GALLON
TWO COMPARTMENT
F/L IN = 293.50
F/L OUT = 293.25

DISTRIBUTION BOXES
D-1 (STANDARD)
F/L IN = 292.75
F/L OUT = 292.50

DEEP TEST HOLE EVALUATION - April 20, 2016
Northeast District Department of Health

TEST PIT	DEPTH	PROFILE
1	0" - 6"	Topsoil Large Rocks
	6" - 30"	Fine Sandy Loam, Roots, Rocky
	30" - 92"	Compact Loamy Fine Sand, Rocky
		Ledge
		N/A
		30'
		Mottling
2	0" - 8"	Topsoil, Roots, Large Rocks
	8" - 28"	Very Boney Fine Sandy Loam, Roots
	28" - 92"	Compact Loamy Fine Sand, Rocky
		Ledge
		N/A
		28'
		Mottling
3	0" - 9"	Topsoil
	9" - 36"	Red Brown Sandy Loam with Gravel/Cobbles
	36" - 104"	Gravelly Medium Sand with Cobbles/Stones
		N/A
		36'
		Mottling

PERCOLATION TEST DATA - April 20, 2016
Performed by: Northeast District Department of Health

HOLE	TIME	READING
1	9:09	2 1/4"
	9:19	9 3/4"
	9:29	14"
	9:39	15 1/2"
	9:49	17"
	9:59	18 3/4"
		21"

Minimum Percolation Rate = 6.6 min./inch

BASIS OF SANITARY DESIGN

Percolation Rate	= 6.6 min. / in.
3 bedroom house requires	= 495 s.f. effective leaching area
Effective Leaching area	= 20 s.f. / l.f. of trench
Length Required	= 495/20 = 24.75 l.f.
Length Provided	= 30 l.f.
Min. Leaching system Spread (MLSS)	= 20 x 1.5 x 1.0 = 30'
MLSS Provided	= 30 l.f.

LEACHING FIELD
30' of Eljen Mantis DW-100 leaching trench
Maximum depth to existing grade = 18"

Received
DEC 16 2020
Thompson Wetlands Office

To my knowledge and belief, this map is substantially correct as noted hereon.

Bruce D. Woodis 8/20/2020
BRUCE D. WOODIS, Conn. L.S. #13646

No certification is expressed or implied unless this map bears the embossed seal of the land surveyor whose signature appears hereon.

KWP associates
P.O. BOX 400, THOMPSON, CONNECTICUT, CT. 06289

David A. Smith 8/20/2020
DAVID A. SMITH, P.E. #14173 DATE
NOT VALID UNLESS SEAL IS APPLIED HERETO

REVISIONS		
DATE	DESCRIPTION	BY
11/27/2020	REVISED LEACHING FIELD AND BASIS OF SANITARY DESIGN	JES

Septic System Design Plan
Prepared For
HALLET T. MERRICK
&
CANDICE J. MERRICK
PLUM ROAD
THOMPSON, CONNECTICUT

KWP associates
SURVEYING ~ ENGINEERING ~ SITE PLANNING
250 Killingly Road
Pomfret Center, Ct. 06299-0106

SCALE: 1" = 20'
DATE: 8/20/2020
SHEET: 1 OF 1
PROJ # 13001 FB: -
Dwn: JES Chk: -

Apr 11 2020

Agenda Item E.a) 2.Old Applications

WAA20031, Madison Avenue Investments, LLC, 0 Madison Ave. (Assessor's map 103, block 31, lot 6K, subdivision lot 11), driveway and grading for new single family home, stamped received 8/3/2020, issued 1/4/2021, legal notice to be published 1/15/2021, end of appeal period 1/30/2021.



Town of Thompson
Inland Wetlands Commission

815 Riverside Drive
North Grosvenordale, CT 06255
860-923-1852 (Office) Email: wetlands@thompsonct.org

December 28, 2020

Brian Meehan, Manager
Madison Avenue Investments, LLC
89 Wauregan Rd
Brooklyn, CT 06234

RE: Request for Information
Application WAA20031, Lot 11 Madison Avenue Subdivision, Thompson

Dear Mr. Meehan,

Please provide me with (1) an explanation as to why the driveway that is the subject of the above reference wetland agent approval application was partially built prior to the submission of the application and (2) the extent of grading and filling work in the 100-foot upland review area that is still proposed to occur.

This application was electronically received by the Wetlands Office on August 3, 2020. On August 31, 2020 I inspected the site and found that fill had been placed at sometime prior to the submission of the application along the driveway alignment in the 100-foot upland review area. While the application drawings failed to show existing and proposed grades in the upland review area Killingly Engineering responded to my request for additional information and provided me with a survey of spot elevations in the area of concern and provided me with a signed statement that no drainage structures under the driveway were needed.

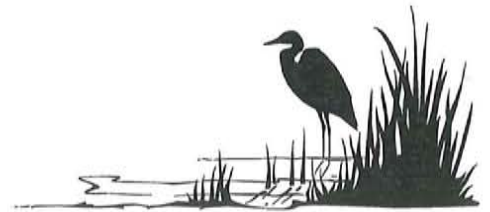
However, since this is now at least in part an after-the-fact application and in the absence of a site plan showing the proposed versus existing contours at 1 foot intervals, I need to know the extent of work that is still proposed so that any approval can contain an accurate description of what is being authorized.

Please provide this information within the next 14 days in order to obtain such approval.

Sincerely

Marla Butts
Wetlands Agent
File: ltr Request for Info WAA20031.doc

cc via email: Thompson Zoning Enforcement Officer
Thompson Building Office
Greg Glaude, Killingly Engineering

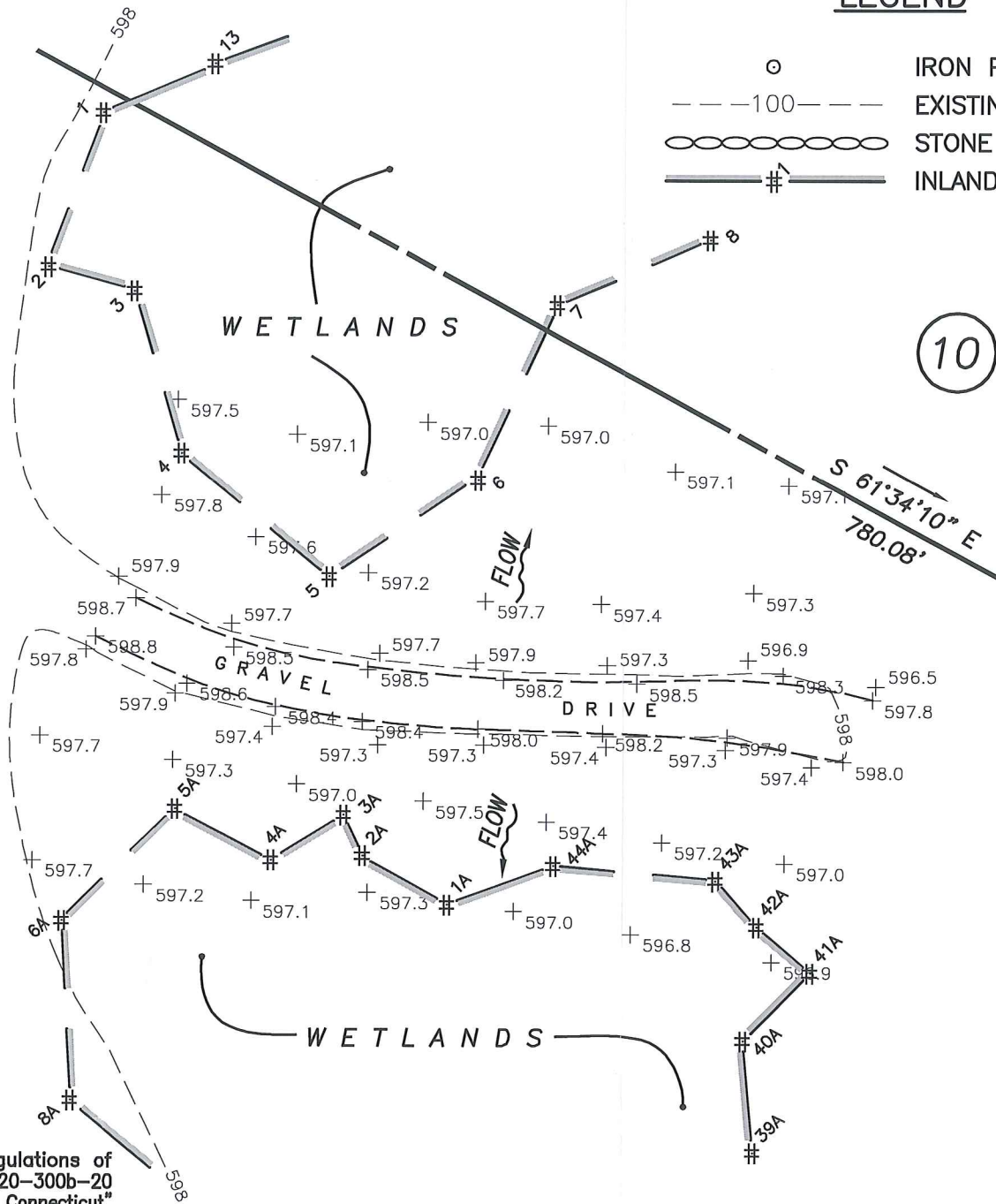
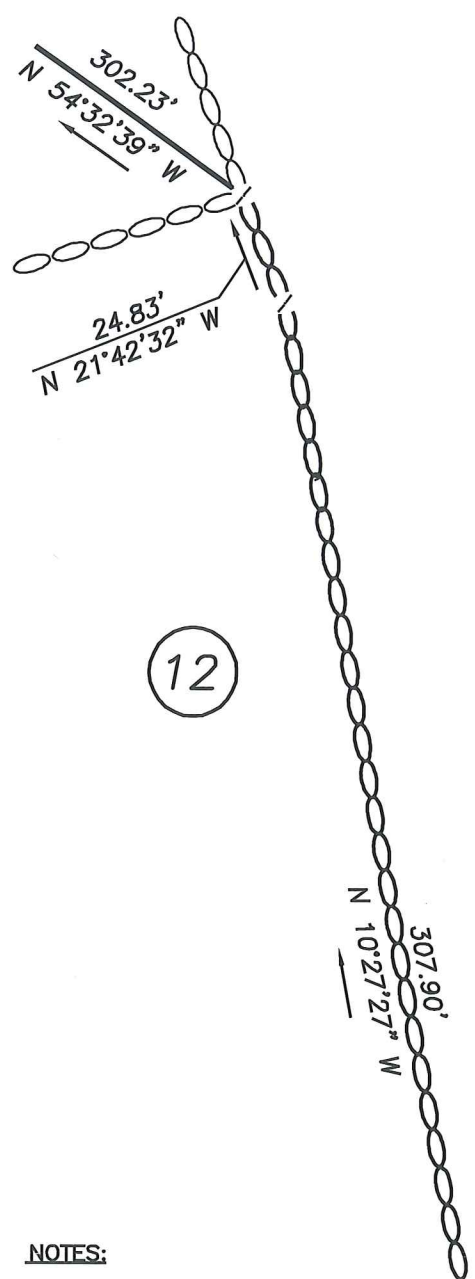
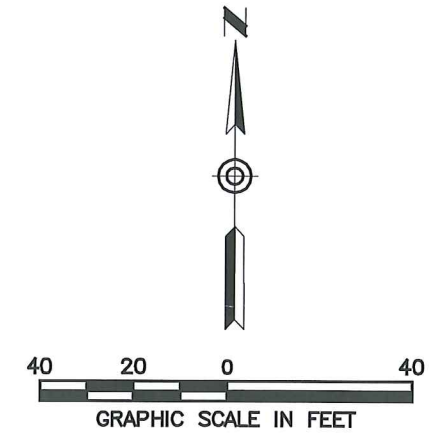


LEGEND

MAP REFERENCE:

- IRON PIN FOUND
- 100--- EXISTING CONTOURS
- STONE WALL
- #— INLAND WETLANDS FLAG

"Subdivision Map - Prepared for - Meehan Builders, Inc. Thompson Road (Rte. 193) - Thompson, Connecticut - Scale: 1" = 100' - Date: 4/13/2004 - Revised to: 6/15/2011 - Sheet 2 of 11 - Prepared by: Killingly Engineering Associates." On file in the Thompson Land Records.



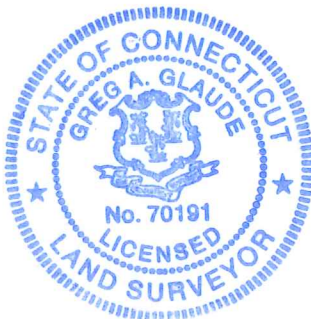
12

10

11

NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996;
 - Topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - Survey Type: Topographic Survey.
2. Owner of record: Madison Avenue Investments, LLC
89 Wauregan Road
Brooklyn, CT 06234
3. Parcel is shown as Lot #6K, Block #31 on Assessors Map #103.
4. Elevations shown are based on National Geodetic Vertical Datum of 1929 (NGVD 29). Contours shown are taken from map reference. Contour interval = 2'.
5. Wetlands shown were taken from map reference.



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

Greg A. Glaude
 GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE 11-04-2020

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

Received
 NOV 09 2020
 Thompson Wetlands Off. 38

SKETCH SHOWING GRADES ALONG DRIVEWAY - LOT 11
 PREPARED FOR
MADISON AVENUE INVESTMENTS, LLC
 MADISON AVENUE
 THOMPSON, CONNECTICUT

Killingly Engineering Associates
 Civil Engineering & Surveying
 114 Westcott Road
 P.O. Box 421
 Killingly, Connecticut 06241
 (860) 779-7299
 www.killinglyengineering.com

SCALE: 1" = 40'
 JOB No: 15048

DATE: 11/03/2020
 DRAWN BY: AMR

Agenda Item E.a) 3. Old Applications

WAA20033, Madison Avenue Investments, LLC, 0 Madison Ave. (Assessor's map 103, block 31, lot 6R, subdivision lot 18), septic system for new single family home, stamped received 8/12/2020, additional information requested regarding status of drainage easement and stormwater management basin.

Reply Forward Delete


Madison Avenue Lot 18 Stormwater Management Basin Discrepancies, Application WAA20034 & Permit IWA17001Permit

Date: 12/30/2020 (02:06:09 PM CST)

From: wetlands@thompsonct.org

To: Brian Meehan


Cc: Greg Glaude Richard Benoit, Director DPW Cynthia Dunne, ZEO Tyra Penn-Gesek, Planning Director

 Text (1 KB)


Greg & Brian,

Attached you will find my notes regarding the discrepancies between the approved drawings and the as-built drawing for the stormwater management basin located on lot 18, which lot is the subject of Wetlands Agent Approval Application WAA20034. Because the dimensions of the basin are altered as well as the outlet elevations please provide an engineering analysis of the function of the built basin in comparison to that of the approved design (per Permit IWA17001 as modified) and provide a statement by a professional engineer licensed to practice in Connecticut as to the conclusion of that analysis. Please provide a response within 2 weeks so that I can complete the processing of application WAA20034. Thank you. - Marla

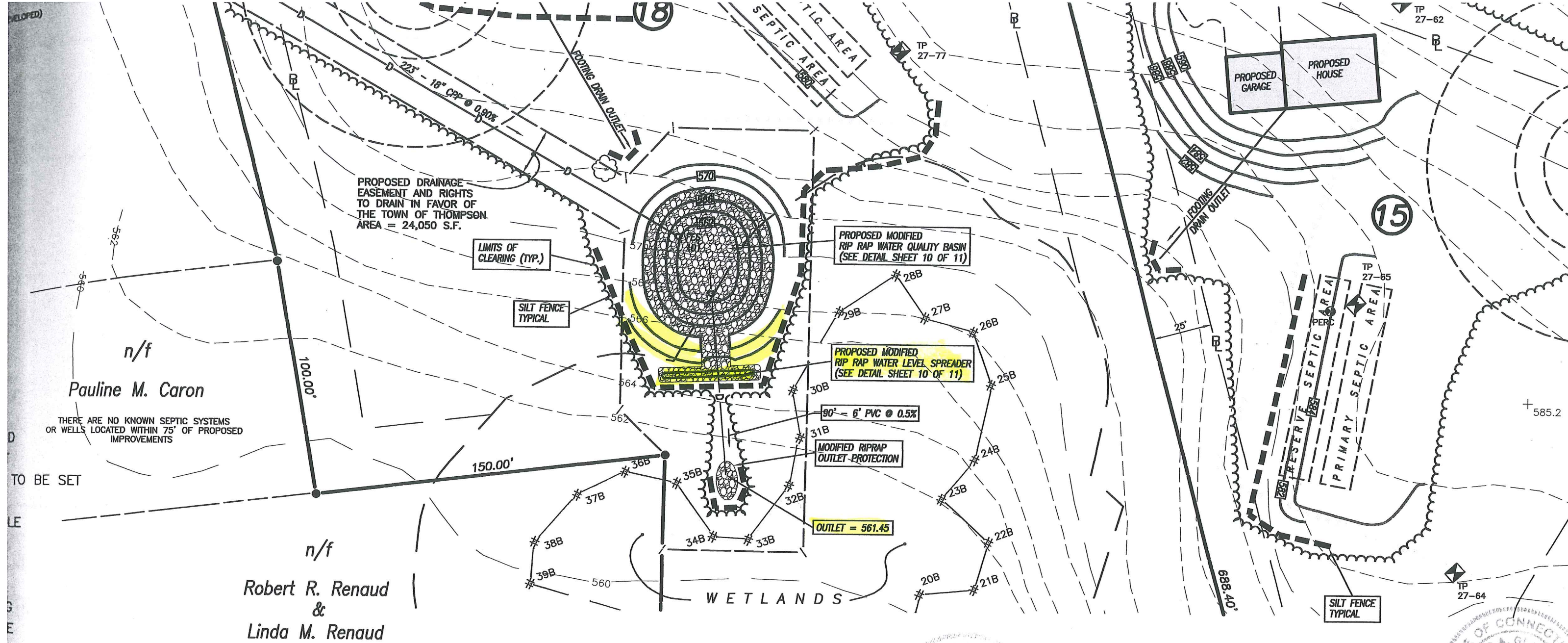
--
Marla Butts
Thompson Wetlands Agent
860-923-1852, Ext. 1
wetlands@thompsonct.org

 Text (1 KB)

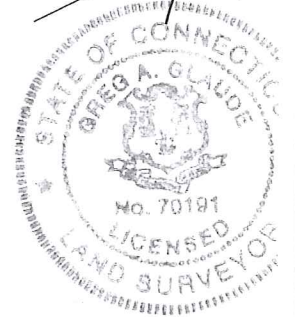
[Attachment stripped: Original attachment type: "application/pdf", name: "Notes on As-built drawing comparison of IWA17001 approved drawing.pdf"]

 Text (1 KB)

[Attachment stripped: Original attachment type: "application/pdf", name: "Notes on Sheets 5&8 Permit IWA17001.pdf"]



From sheet 5 of 11



APPROVED BY THE TOWN OF THOMPSON
INLAND WETLANDS & WATERCOURSES AGENCY

CHAIRMAN _____ DATE _____

Normand Thibault Jr. 01/03/17
NORMAND E. THIBEAULT, JR., P.E. DATE

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

Greg A. Glaude
GREG A. GLAUDE, L.S. LIC. NO. _____

NO CERTIFICATION IS EXPRESSED OR IMPLIED THE EMBOSSED SEAL OF THE LAND SURV APPEARS HEREON.

MISSION

THERE ARE NO KNOWN SEPTIC SYSTEMS OR WELLS LOCATED WITHIN 75' OF PROPOSED IMPROVEMENTS

THERE ARE NO KNOWN SEPTIC SYSTEMS OR WELLS LOCATED WITHIN 75' OF PROPOSED IMPROVEMENTS

+ 585.2

84'
31'

AD CALCULATIONS

1.

in.

n.

2 in.

in.

4 in.

in.

9 in.

Percolation rate = 20.0 min/in
Max. depth into exist. grade = 1 in.
System Size = 675 s.f.

Hydraulic Factor = 62.0
Flow Factor = 1.5
Perc Factor = 1.5

$62.0 \times 1.5 \times 1.5 = 139.5'$

$MLSS = 139.5'$

LOT 11

Depth to restrictive layer = 24 in.
Slope % = 2.3 %
Number of Bedrooms = 3
Percolation rate = 8.0 min/in
Max. depth into exist. grade = 6 in.
System Size = 495 s.f.

Hydraulic Factor = 48.0
Flow Factor = 1.5
Perc Factor = 1.2

$48.0 \times 1.5 \times 1.2 = 86.4'$

$MLSS = 86.4'$

LOT 12

Depth to restrictive layer = 24 in.
Slope % = 2.4 %
Number of Bedrooms = 3
Percolation rate = 26.0 min/in
Max. depth into exist. grade = 6 in.
System Size = 750 s.f.

Hydraulic Factor = 48.0
Flow Factor = 1.5
Perc Factor = 2.0

$48.0 \times 1.5 \times 2.0 = 144.0'$

$MLSS = 144.0'$

LOT 13

Depth to restrictive layer = 25 in.
Slope % = 4.3 %
Number of Bedrooms = 3
Percolation rate = 7.0 min/in
Max. depth into exist. grade = 7 in.
System Size = 495 s.f.

Hydraulic Factor = 34.0
Flow Factor = 1.5
Perc Factor = 1.2

$34.0 \times 1.5 \times 1.2 = 61.2'$

$MLSS = 61.2'$

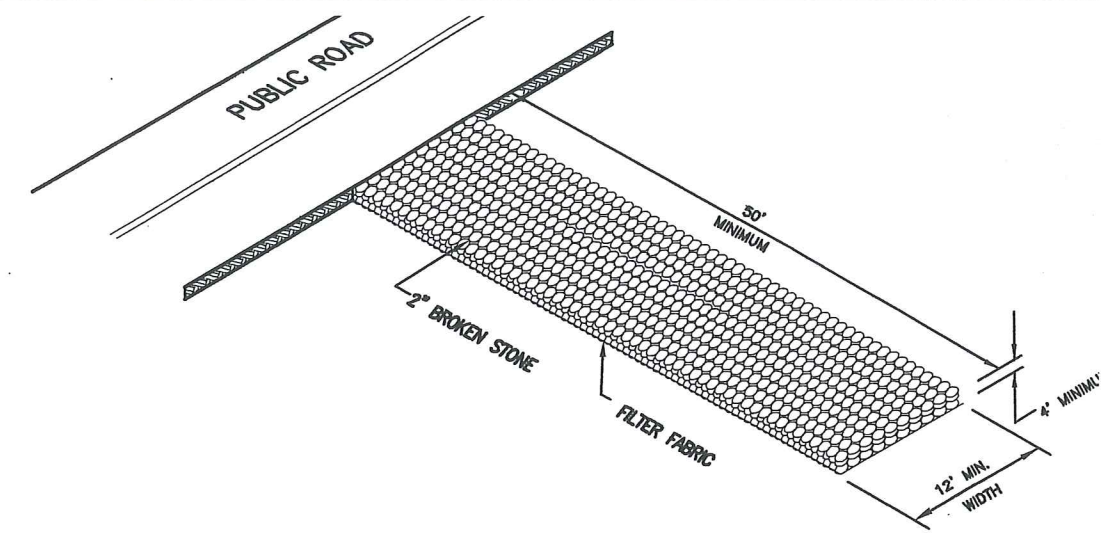
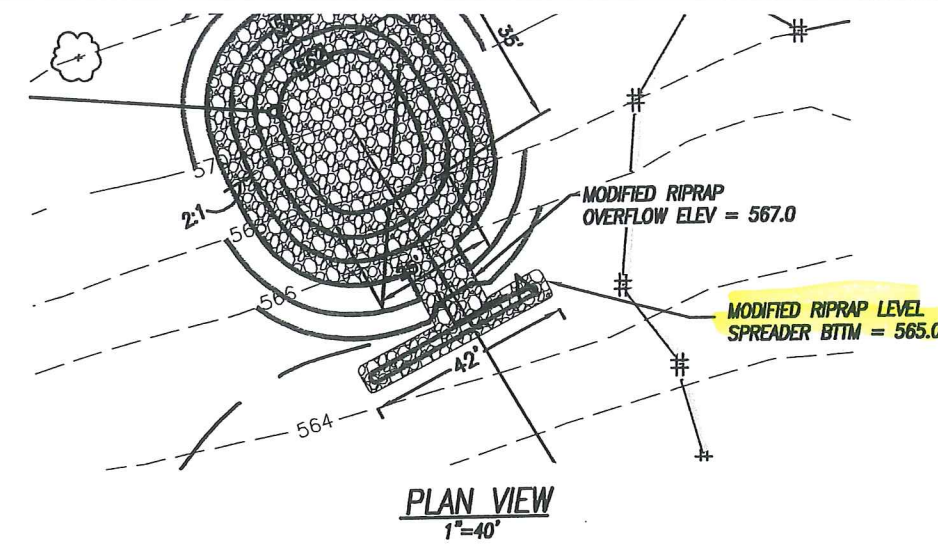
LOT 14

Depth to restrictive layer = 31 in.
Slope % = 8.7 %
Number of Bedrooms = 3
Percolation rate = 9.2 min/in
Max. depth into exist. grade = 13 in.
System Size = 495 s.f.

Hydraulic Factor = 24.0
Flow Factor = 1.5
Perc Factor = 1.2

$24.0 \times 1.5 \times 1.2 = 43.2'$

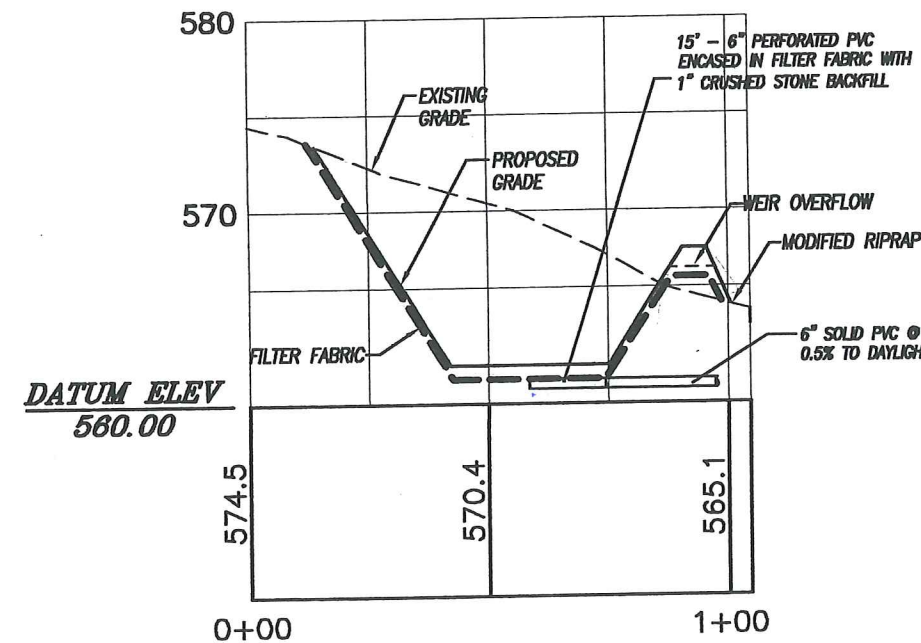
$MLSS = 43.2'$



CONSTRUCTION ENTRANCE

NOT TO SCALE

DATE	DESCRIPTION
12/27/2016	IWVC SUBMITTAL / TOWN COMMENTS
03/10/2016	CT DOT COMMENTS / HC RAMP
11/11/2015	CT DOT DETAILS ADDED
11/04/2015	PER OWNER
8/25/2015	CT DOT COMMENTS
REVISIONS	



SECTION A-A

1"=40" HORIZONTAL
1"=10" VERTICAL

RIPRAP LEVEL SPREADER DETAIL



Normand Thibault Jr 01/03/17
NORMAND E. THIBEAULT, JR., P.E. DATE

DETAIL SHEET No. 2

PREPARED FOR

MADISON AVENUE INVESTMENTS, LLC


THOMPSON ROAD (RTE. 193)
THOMPSON, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
Telephone: (860) 779-7299

DATE: 4/29/2015	DRAWN: AMR
SCALE: AS NOTED	DESIGN: NET
SHEET: 10 OF 11	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 15048

[Reply](#)[Forward](#)[Delete](#)**Acceptability of Easement Language filed for Madison Avenue Subdivision, Lot 18, Application WAA20034****Date:** 12/30/2020 (01:48:56 PM CST)**From:** wetlands@thompsonct.org**To:** [Amy St.Onge, 1st Selectman](#)**Cc:** [Cynthia Dunne, ZEO](#) [Tyra Penn-Gesek, Planning Director](#) [Richard Benoit, Director DPW](#) [Greg Glaude](#) [Text \(2 KB\)](#)

Hi Amy,


Attached to this email is an easement that was filed on the Thompson land records for the Madison Avenue subdivision stormwater system and management basin that is located on lot 18 of the Madison Avenue subdivision. Apparently the language for this easement was never vetted by the town and I currently holding a wetlands agent approval application (#WAA20034) for construction of a new single-family home on that lot pending the status of the drainage system and easement. Before I granted approval for the construction of a new home on the lot I would like verification that the language for the drainage easement is adequate for the town to maintain and repair that drainage system and associated stormwater management basin. I recommend that the language of the easement be reviewed by town's legal counsel to assess the adequacy of the language for the town to maintain and repair the drainage system and associated stormwater management basin.

Also attached is an as-built drawing of the drainage system and stormwater drainage system that I requested and received from Killingly Engineering. There are some discrepancies between what was authorized and what was built that I need to determine if that is a problem. However, the layout of the easement lines are the same as that which was approved in the recorded subdivision plans.


Please advise me if the language of the easement language is acceptable to the Town or if it needs to be modified. Thank you.-Marla

--

Marla Butts
Thompson Wetlands Agent
860-923-1852, Ext. 1
wetlands@thompsonct.org

 [Text \(1 KB\)](#)

[Attachment stripped: Original attachment type: "application/pdf", name: "Easement Language Vol 950 Pg 325.pdf"]

 [Text \(1 KB\)](#)

[Attachment stripped: Original attachment type: "application/pdf", name: "K__15048_Drawings_15048 AS BLT BASIN LOT 18 Model (rec'd 11-4-2020).pdf"]

After recording, please return to:

PLEASE RETURN TO:
Attorney James F. Brennan
Kaplan and Brennan, LLP
643 Norwich Road
Plainfield, CT 06374

File # 2363Le

Receipt # 14083



Instr # 2020-117
 Local Tax \$ 0
 State Tax \$ 0

VOL 950 PG 325
 01/24/2020 01:32:31 PM
 2 Pages
 EASEMENT

Renee Waldron Town Clerk

EASEMENT

Madison Avenue Investments, LLC, a Connecticut limited liability company with an office at 89 Wauregan Road, Brooklyn, Connecticut, for consideration paid, grants to the **Town of Thompson**, a municipality located in the County of Windham and State of Connecticut (mailing address – 815 Riverside Drive, North Grosvenordale, CT 06255), a **Drainage Easement**, which is more particularly described as follows:

A certain drainage easement and rights to drain located on the southerly side of Madison Avenue in the Town of Thompson, County of Windham, State of Connecticut, which easement is shown over a portion of Lot 18 on a plan entitled: "Subdivision Map prepared for Meehan Builders, Inc. – Thompson Road (Rte. 193), Thompson, Connecticut – Scale: 1" = 100' – Date: 4/13/2004 – Revised to: 12/01/2004 - Sheet 2 of 11 – Prepared by: Provost & Rovero, Inc., on file in the Thompson Land Records as map #1488-1", said parcel being bounded and described as follows:

Beginning at a point in the westerly street line of Madison Avenue, said point being the northeast corner of herein described drainage easement; Thence: S 58°36'39" W for a distance of 56.23' to a point; Thence: S 20°54'04" W for a distance of 145.69' to a point; Thence: S 28°37'51" W for a distance of 145.03' to a point; Thence: S 17°17'57" E for a distance of 184.57' to a point; Thence: N 86°20'05" E for a distance of 29.56' to a point; Thence: S 46°14'06" E for a distance of 60.00' to a point; Thence: S 43°45'54" W for a distance of 178.58' to a point; Thence: N 46°14'06" W for a distance of 60.12' to a point; Thence: N 43°56'23" E for a distance of 40.00' to an iron pin, the last course being bounded northwesterly by land of Robert R. Renaud & Linda M. Renaud; Thence: N 03°20'54" W for a distance of 27.30' to a point; Thence: N 43°45'54" E for a distance of 75.37' to a point; Thence: N 17°17'57" W for a distance of 204.11' to a point; Thence: N 28°37'51" E for a distance of 152.15' to a point, the last course being bounded westerly by land of John J. Callahan & Dorothy P. Callahan; Thence: N 20°54'04" E for a distance of 151.17' to a point, the last course being bounded westerly by land of Philip S. Levin & Lisa D. Oransoff; Thence: N 58°36'39" E for a distance of 57.51' to a point in the westerly street line of Madison Avenue; Thence: S 46°53'48" E for a distance of 20.76' to the point of beginning. The last course being along the westerly street line of said Madison Avenue.

The above described drainage easement contains 24,050 square feet.

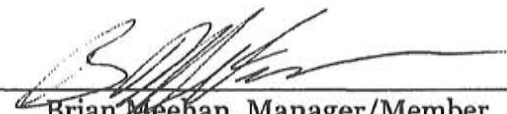
Said premises are conveyed subject to building and building line restrictions, any and all provisions of municipal ordinances, including planning, zoning and inland-wetland regulations, public and private law, and taxes or municipal charges and assessments hereinafter become due.

Signed on January 13, 2020.

Witnessed by:

Madison Avenue Investments, LLC


Dawn Marie LaCroix


By: 
Brian Meehan, Manager/Member

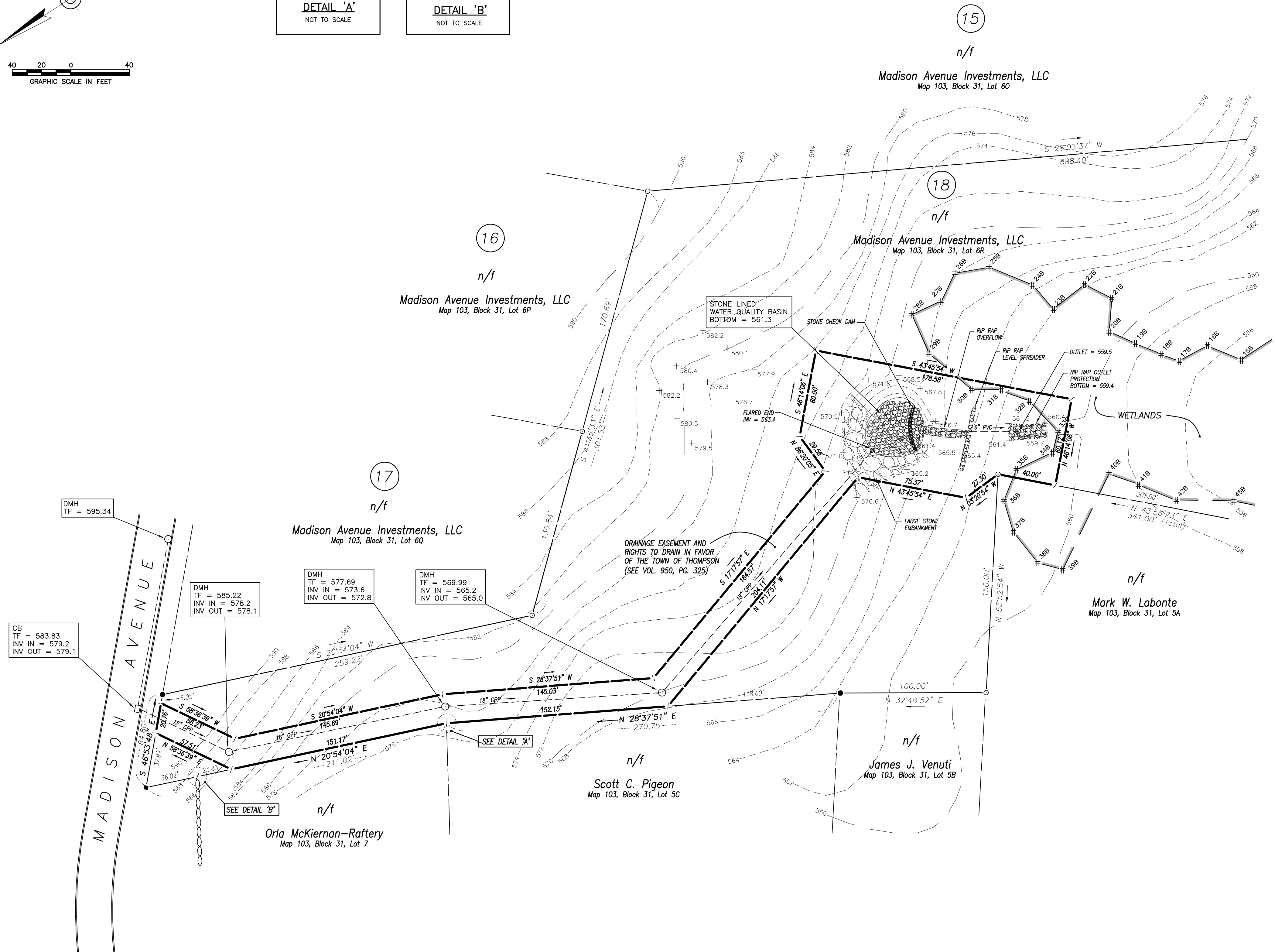
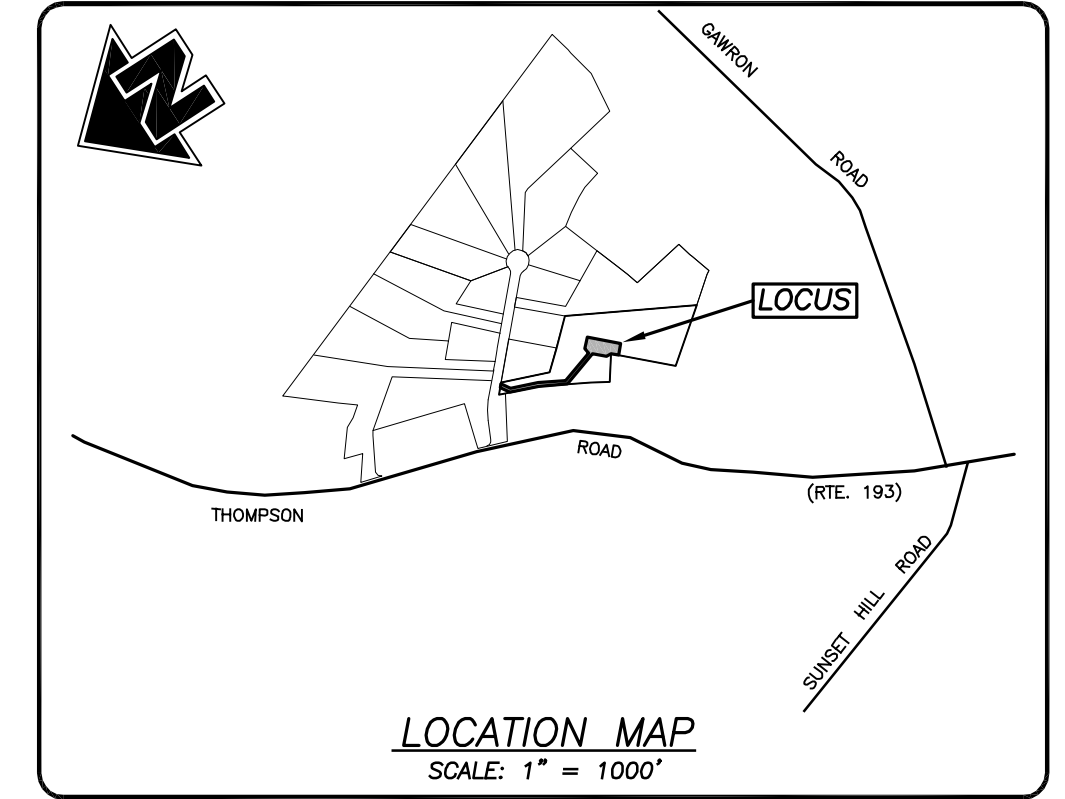
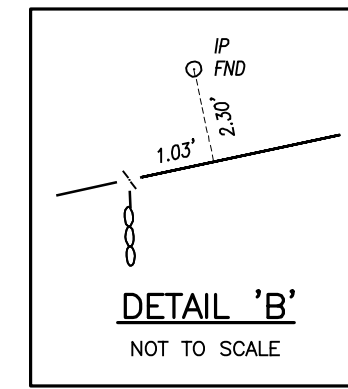
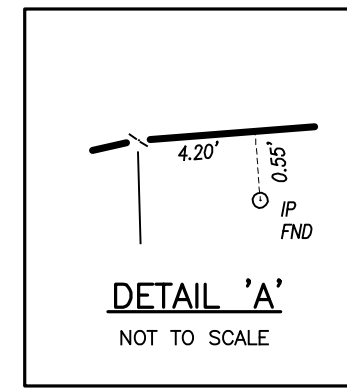
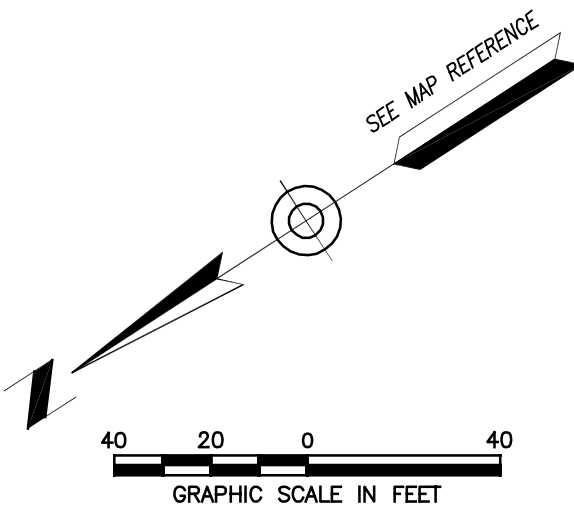

melissa benoit

STATE OF CONNECTICUT
COUNTY OF WINDHAM

ss: Plainfield

The foregoing instrument was acknowledged before me on January 13, 2020, by Brian Meehan, Manager/Member of Madison Avenue Investments, LLC, a Connecticut limited liability company, on behalf of the company.


Dawn Marie LaCroix, Notary Public
My Commission Expires: 6/30/20



- NOTES:**
- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996;

 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - Survey Type: Improvement Location Survey.
 - Boundary Determination Category: Dependent Resurvey.
 - Zone = R-40.
 - Owner of record: Madison Avenue Investments, LLC
89 Wauregan Road
Brooklyn, CT 06234
 - Parcel is shown as Lot #6R, Block #31 on Assessors Map #103.
 - Elevations shown are based on National Geodetic Vertical Datum of 1929 (NGVD 29). Contours shown are taken from map reference and supplemented with actual field survey. Contour interval = 2'.
 - Wetlands shown were taken from map reference.

MAP REFERENCE:

"Subdivision Map - Prepared for - Meehan Builders, Inc. Thompson Road (Rte. 193) - Thompson, Connecticut - Scale: 1" = 100' - Date: 4/13/2004 - Revised to: 6/15/2011 - Sheet 2 of 11 - Prepared by: Killingly Engineering Associates." On file in the Thompson Land Records.

DATE	DESCRIPTION

**IMPROVEMENT LOCATION SURVEY
SHOWING AS-BUILT DRAINAGE OVER LOT 18
PREPARED FOR
MADISON AVENUE
INVESTMENTS, LLC**

MADISON AVENUE
THOMPSON, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying

114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

DATE: 10/29/2020	DRAWN: AMR
SCALE: 1" = 40'	DESIGN: --
SHEET: 1 OF 1	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 15048

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

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

K:\15048\Drawings\15048 AS-BLT BLDG LOT 18.dwg Nov 03, 2020 - 2:38 PM

LEGEND

- IRON PIN TO BE SET
- IRON PIN FOUND
- CONCRETE MONUMENT TO BE SET
- CATCH BASIN
- DMH STORM DRAIN MANHOLE
- - - - - EXISTING CONTOURS
- ▬ INLAND WETLANDS FLAG
- ⊖⊖⊖⊖⊖⊖ STONE WALL

Agenda Item E.a) 4. Old Applications

WAA20040, Laura Hauser, 31 Center St.
(Assessor's map 116, block 30, lot 3A),
reconstruction of a single family home in 100-foot
upland review area for Little Pond, stamped
received by the Town Clerk 9/18/2020 and 10/5/
2020 by the Wetlands Office, additional information
received, revised plans received 1/11/2021.

TEST PIT RESULTS

OBSERVED BY: SHERRY MCGANN
DATE: AUGUST 28, 2020

PIT NO. 1

0 - 6"	TOPSOIL
6 - 34"	YB COBBLY LOAMY SAND
34 - 107"	COBBLY MEDIUM COARSE SAND & GRAVEL W/ STONES
MOTTLING: N/A	
RESTRICTIVE: N/A	
LEDGE: N/A	
WATER: N/A	
ROOTS: 38"	

PIT NO. 2

0 - 10"	TOPSOIL
10 - 41"	YB COBBLY LOAMY SAND
41 - 102"	COBBLY MEDIUM COARSE SAND & GRAVEL W/ STONES
MOTTLING: N/A	
RESTRICTIVE: N/A	
LEDGE: N/A	
WATER: N/A	
ROOTS: 45"	

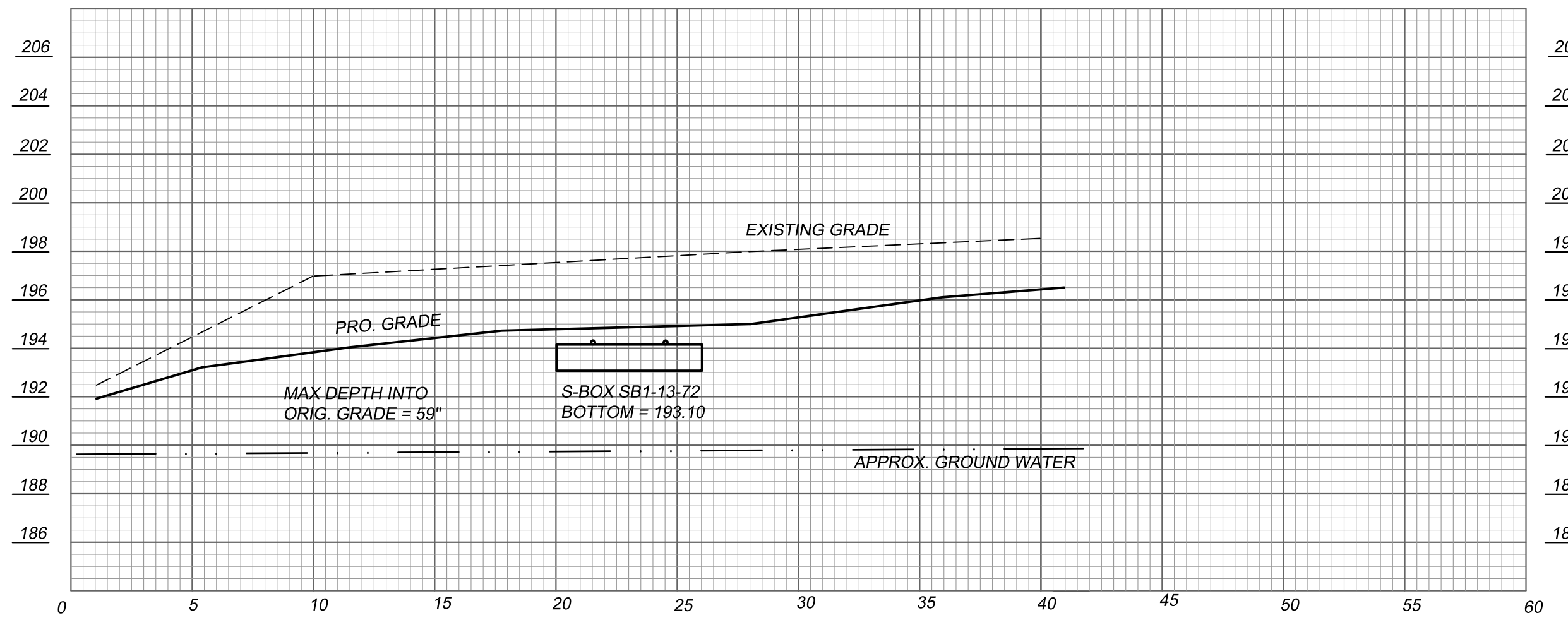
PERC. TEST RESULTS

OBSERVED BY: SHERRY MCGANN
DATE: SEPTEMBER 3, 2020

HOLE A - NEAR TP 1

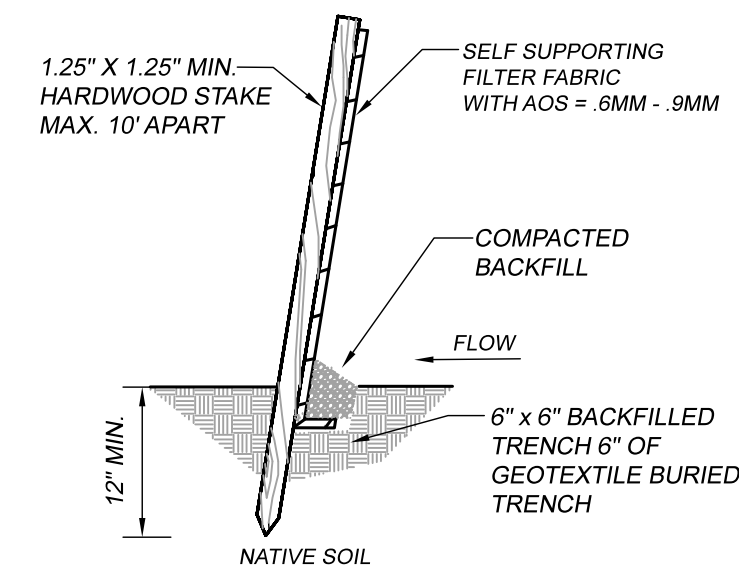
TIME	READING
11:46	6.00
11:48	10.50
11:50	14.25
11:52	17.75
11:54	20.00
11:56	21.75
11:58	22.75
12:00	23.75
12:02	24.50 DRY

DEPTH: 27"
RATE: 2.7 MINUTES PER INCH



VARIANCES FROM "TABLE 1" IN TECHNICAL STANDARDS

ITEM	REQUIRED	PROVIDED
PROPERTY LINE	10'	2'



SILT FENCE INSTALLATION
NOT TO SCALE

SEPTIC SYSTEM DESIGN CRITERIA

NUMBER OF BEDROOMS: 2
SEPTIC TANK: 1000 GALLON
PERC RATE: 2.7 MINS/INCH
MOTTLING: N/A; LEDGE: N/A; WATER: N/A; RESTRICTIVE: N/A; SLOPE: 22%
LEACHING AREA REQUIRED: 375 SQUARE FEET
LEACHING AREA PROVIDED: (2) 50" AND (1) 60" S-BOX 13-72 UNITS AT 28.5 SF/LF = 380 SQUARE FEET (NOTE: MANUFACTURER WILL MAKE CUSTOM LENGTHS FOR CT)
MLSS (PRIMARY) = N/A
LSS PROVIDED = 13.3'

SPECIFICATIONS

SEPTIC SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE "CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS".

THE BUILDING, SEPTIC SYSTEM, AND WELL SHALL BE ACCURATELY STAKED IN THE FIELD BY A LICENSED SURVEYOR OR ENGINEER PRIOR TO CONSTRUCTION.

ALL PRECAST STRUCTURES SUCH AS SEPTIC TANKS AND DISTRIBUTION BOXES SHALL BE SET LEVEL ON SIX INCHES OF COMPACTED GRAVEL BASE.

SEPTIC TANK: TWO-COMPARTMENT TANK WITH OUTLET FILTER. INSTALL RISERS OVER TANK CLEANOUTS IF COVER OVER TANK EXCEEDS 1'.

DISTRIBUTION BOXES: 4 HOLE D-BOXES

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.

DISTRIBUTION SYSTEM: S-BOX SB1-13-72 BY GEOMATRIX SYSTEMS LLC.

POLYLOK PIPE SEAL AS MANUFACTURED BY SUPERIOR SEPTIC TANKS (OR EQUAL) SHALL BE USED TO SEAL SEPTIC TANK AND D-BOX INLETS AND OUTLETS.

BOTTOM OF TRENCHES TO BE LEVEL.

TOPSOIL SHALL BE STRIPPED IN AREA OF LEACH FIELD AND THE SUBSOIL SCARIFIED PRIOR TO PLACEMENT OF SELECT SEPTIC FILL.

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

MAX. PERCENT GRAVEL (PLUS NO. 4 SIEVE MATERIAL) = 45%

GRADATION ON FILL LESS GRAVEL:

SIEVE	DRY PERCENT PASSING	WET PERCENT PASSING
NO. 4	100	100
NO. 10	70-100	70-100
NO. 40	10-75	10-50*
NO. 100	0-5	0-20
NO. 200	0-2.5	0-5

* 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%.

SELECT FILL MUST PERC AT A RATE EQUAL TO OR FASTER THAN THE UNDERLYING SOIL.

SELECT FILL MATERIAL SHALL EXTEND A MINIMUM OF 10' BEYOND THE LOWEST TRENCH BEFORE TAPERING OFF.

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 TANK 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

	PROPERTY LINE
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	EDGE OF WATER
	EROSION CONTROL DEVICES
	TEST PIT
	LEACHING TRENCH
	UTILITIES

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 ON JUNE 26, 2020, AND IS INTENDED TO BE USED FOR THE DESIGN OF AN ENGINEERED SEPTIC SYSTEM.

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.

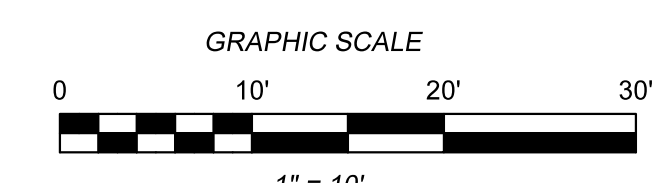
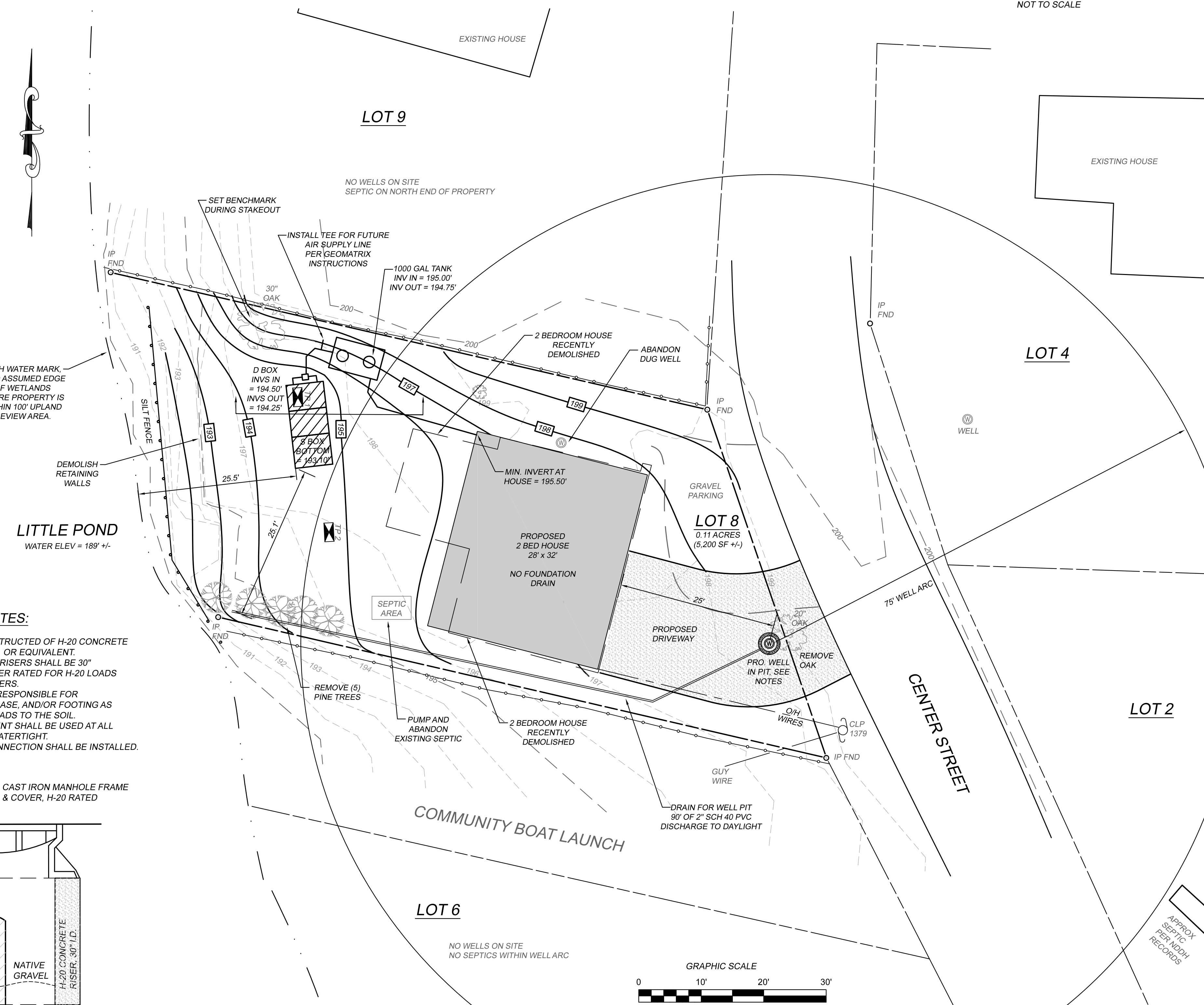
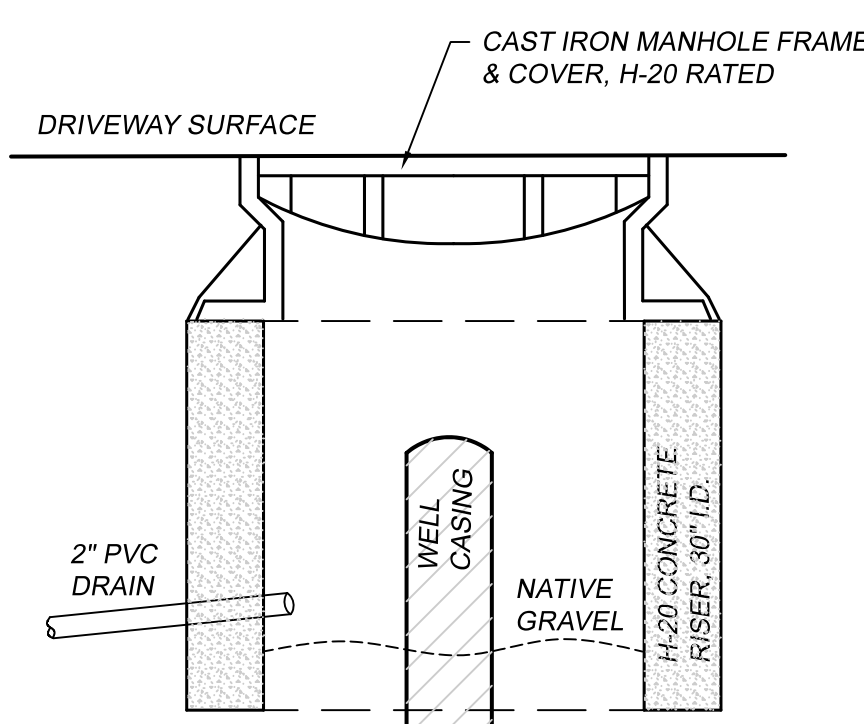
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DENNIS R. BLANCHETTE DATE 12/10/20
LICENSE NUMBER

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE
© 2020 J&D CIVIL ENGINEERS, LLC

WELL PIT DETAIL & NOTES:

1. THE WELL PIT SHALL BE CONSTRUCTED OF H-20 CONCRETE RISERS BY JOLLEY PRECAST INC. OR EQUIVALENT.
2. THE INNER DIAMETER OF THE RISERS SHALL BE 30"
3. A CAST IRON FRAME AND COVER RATED FOR H-20 LOADS SHALL BE INSTALLED ON THE RISERS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE SUBBASE, BASE, AND/OR FOOTING AS REQUIRED TO TRANSFER THE LOADS TO THE SOIL.
5. BUTYL SEALANT OR EQUIVALENT SHALL BE USED AT ALL JOINTS TO ENSURE THE PIT IS WATERTIGHT.
6. A WATERTIGHT DRAINAGE CONNECTION SHALL BE INSTALLED.



SITE DEVELOPMENT PLAN
PREPARED FOR
LAURA HAUSER
31 CENTER STREET - THOMPSON, CT
MAP 116 LOTS

J&D CIVIL ENGINEERS, LLC
401 RAVENELLE ROAD
N. GROSVENORDALE, CT 06255
860-923-2920

DESIGNED: **DRB**
CHECKED: **DRB**

REVISIONS:
2020-10-27 WELL PIT
2020-12-03 NDDH

JOB NO: **20183**
SCALE: **1" = 10'**

DATE: **SEPTEMBER 15, 2020**
SHEET: **1 OF 1**

Agenda Item E.a) 5. Old Applications

WAA20043, Gary Rawson, 0 Logee Rd. (Assessor's map 141, block 17, lot E), construction of a new single family home in the 100-foot upland review area for Quaddick Reservoir, stamped received 10/29/ 2020, under review pending additional information.

Agenda Item E.b) 1. New Applications

WAA20047 – Town of Thompson, Riverside Drive from Route 200 to Rawson Ave (maps 61, 63 & 174), reconstruction of sidewalks in DOT right-of-way, received 12/21/2020, under review.

For Wetland Agent:	rev 01/11
APPLICATION #WAA	<u>20047</u>
DATE RECEIVED	<u>Dec 24, 2020</u>

Application
for
Wetland Agent Approval
to conduct a regulated activity

Town of Thompson

INLAND WETLANDS COMMISSION
815 RIVERSIDE DRIVE
NORTH GROSVENORDALE, CT 06255

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

Date 12/20/20

1) Name of Applicant TOWN OF THOMPSON
Home Address 815 RIVERSIDE DRIVE, NO. GROS, CT 06255
Home Tele & Hrs 860-923-9561 Business Tele & Hrs _____
Business Address SAME

2) Applicant's interest in the Property: Owner Other *
INLAND WETLANDS APPROVALS CAN BE GRANTED TO PROPERTY OWNER ONLY.
* **ALTHOUGH SIDEWALKS ARE WITHIN STATE RTE 12 R.O.W. TOWN IS RESPONSIBLE FOR CONSTRUCTION & MAINTENANCE**

3) Name of Property Owner (if not applicant) STATE OF CONNECTICUT DOT
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) LINEAR PROJECT ALONG RIVERSIDE DRIVE
Pole # and Location FROM RTE 200 IN THE SOUTH TO RAWSON AVE IN THE NORTH
Street or Road Location _____

Tax Assessor's Map # 61, 63 & 174
Block # _____
Lot # that appears on site plan _____
Deed Information : Volume # _____
Page # _____
} N/A - ALL WORK WITHIN ROAD R.O.W.

5) The property to be affected by the proposed activity contains:
Soil Types FRENCH RIVER
Wetland Soils _____ (Swamp _____ Marsh _____ Bog _____ Vernal Pool _____)
Watercourses (Lake or Pond _____ Stream or River Intermittent Stream _____)
Floodplain - Yes / No

6) Description of the Activity for which Approval is requested SEE ATTACHED
MEMO FROM J. BLANCHETTE, CHAIRPERSON
MSRAC COMMITTEE

7) Submit a Site Plan, drawn to scale, with the certification of the preparing Surveyor and/or Engineer including: SEE MEMO

- 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. RIVER SHOWN ON AERIAL
- N/A 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.
- N/A 7-Nature and volume of the material to be placed, removed, or transferred.
- N/A 8-Topographical contours, proposed and existing.
- N/A 9-Location and supporting data for proposed drainage.
- 10-Date, scale (recommend 1"=40') and North arrow.
- N/A 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. WILL BE ON CONSTRUCTION PLANS
- N/A 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.
- N/A 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.
- N/A 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.

9) Does any portion of this property contain a Natural Diversity Data Base (NDDDB) 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? NO 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:

N/A

11) Estimated start date SUMMER 2021

Estimated date of completion (all disturbed areas are stabilized) FALL 2021

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.

Upon Approval the Applicant is responsible for publishing a notice of the approval, at the applicant's expense, in a newspaper having a general circulation in the Town of Thompson. The Agent will provide the necessary notice to the newspaper for public notice, and such notice must be published within ten (10) days of the date of approval.

[Signature] 12-21-2020
Signature of Applicant Date

N/A
Consent of Landowner if other than applicant Date

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

MEMO- Town of Thompson Riverside Drive Sidewalk Replacement Wetlands Agent Approval Application

Date: December 20, 2020

To: Thompson Inland Wetlands Commission

From: Janet Blanchette, Chairperson, Mill Sites Redevelopment Advisory Committee (MSRAC)

Cc: Marla Butts, Amy St. Onge, Tyra Penn-Gesek

The Town is seeking a wetland agent approval for the reconstruction of sidewalks within the 100' upland review area of the French River.

Background:

The MSRAC obtained a Brownfield Areawide Redevelopment (BAR) Grant from the state DECD. A portion of those funds were used to pay for the design of sidewalks reconstruction along the east side of Riverside Drive (Route 12) from Route 200 in the south to Rawson Avenue in the north. Freeman **Companies is the Town's consultant** on the project. **This project is approximately 7400' long and will include upgrades to crosswalks and ADA ramps, curb replacement and replacing catchbasin tops.** The new sidewalks will improve safety and improve aesthetics **along the Town's most trafficked corridor.** Construction of the sidewalks will be funded by a CTDOT LOTCIP grant.

Project Description:

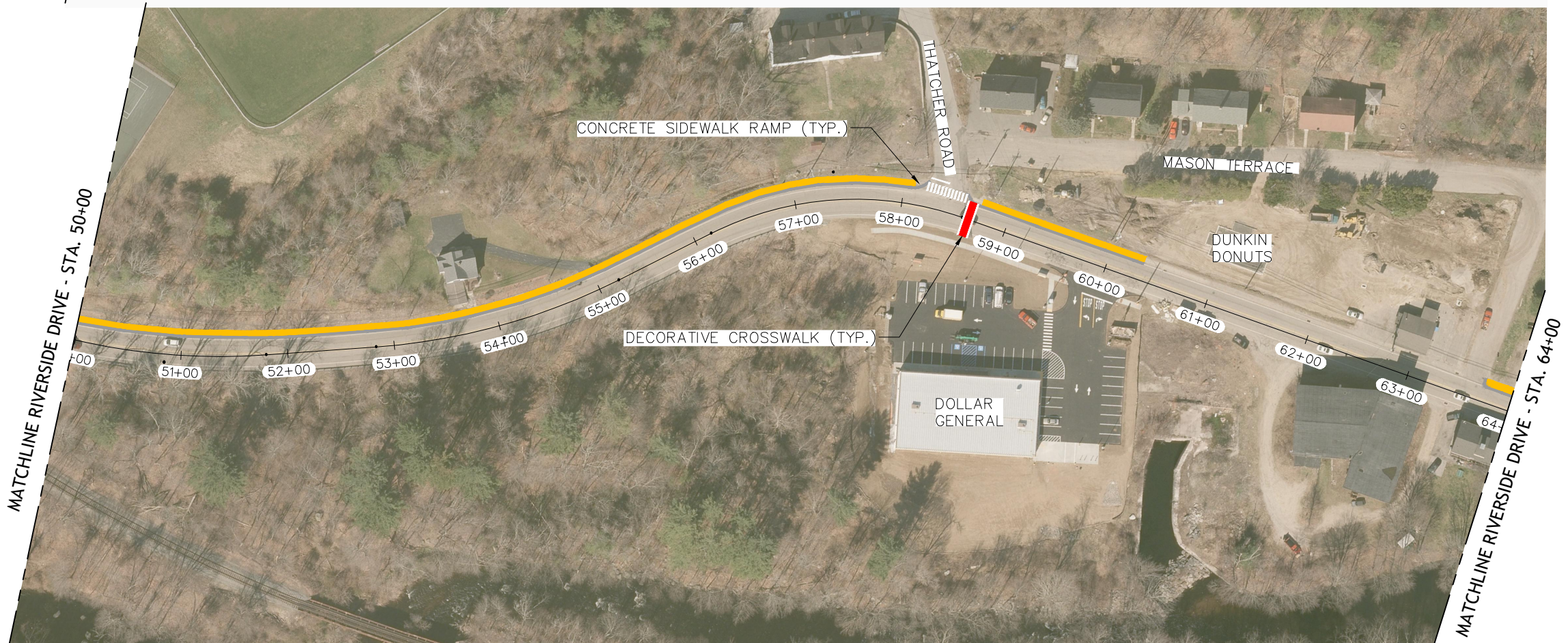
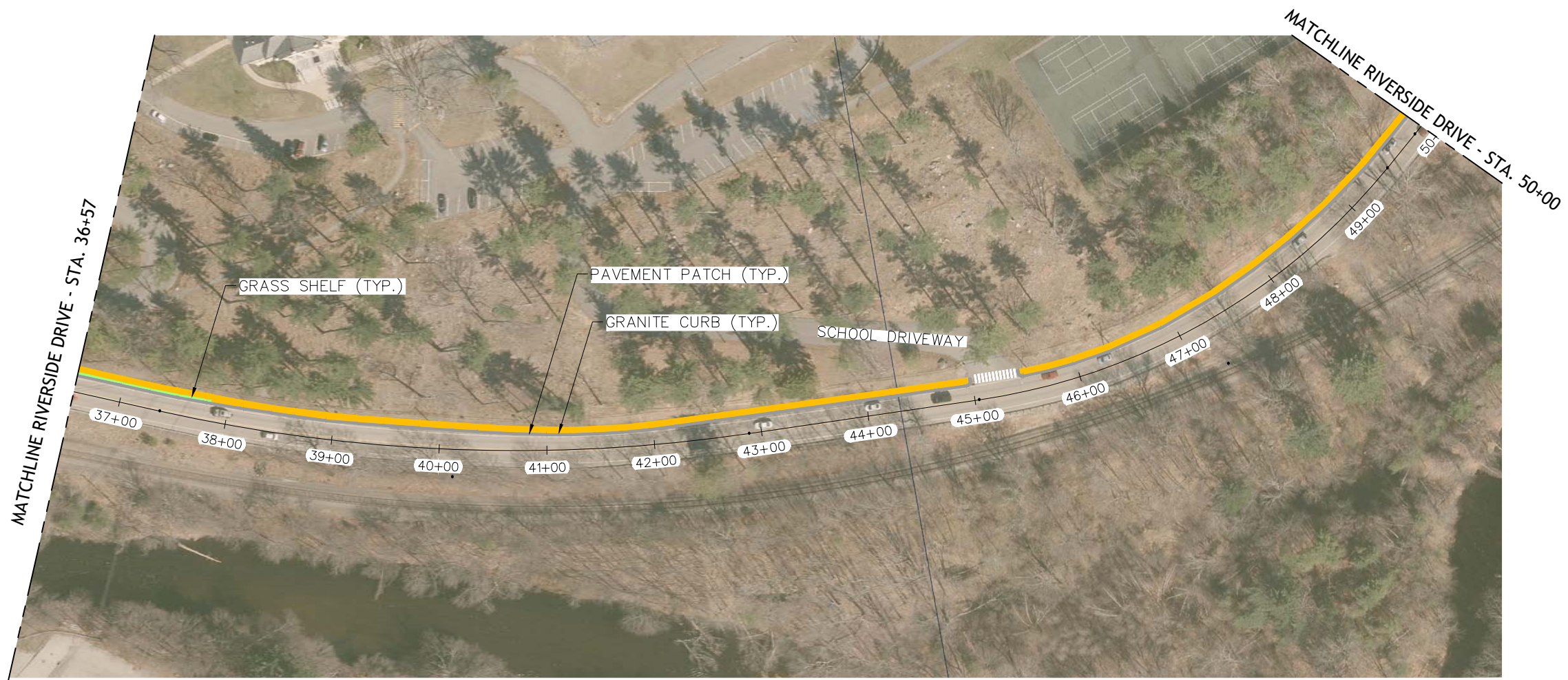
The sidewalks will be wholly reconstructed in areas that are currently already paved. The sidewalks will **be 5' – 6' wide concrete with granite curbs.** Where the right of way is wide enough and existing buildings are far enough back, there will be a grass strip between the back of curb and the sidewalk. As part of the project, CT DOT indicated they would allow the white edge of travel way line will be moved away from the curb a foot which will increase decrease the travel **lane width to 11' and increase the shoulder width by 1' making it more bike and pedestrian friendly.**

On this type of project there is very little soil disturbance and minimal chance for sediment to enter the river, especially since the project is on the east side of the road and the French River is on the west. Erosion control devices will consist of catchbasin inserts.

Plans Submitted:

Freeman Companies is in the process of finishing the construction plans for the project. The plan set will be quite large (greater than 30 sheets) since it includes many cross sections. Therefore to reduce paperwork for permitting on this fairly straightforward project, we are submitting a 3 sheet overview set of **11" x 17"** plans on an aerial background. We hope that these will provide enough information for a decision. When the final full set of check prints are digitally delivered to the Town I will forward a set to Marla for a final review of E & S, **as well as for the Commission's records.** Please let us know if this approach is acceptable or if you require additional information from the Town's consultant at this time.

FREEMAN COMPANIES, LLC . R:\2020\2020-0302 Riverside Drive Sidewalk Replacement\DWG\HW_MSH_2020_0302_HWY - for presentation.dwg Nov 19, 2020 - 3:43pm Plotted By: casprerant



NO.	DATE	DESCRIPTION	REVISIONS

FREEMAN COMPANIES
LAND DEVELOPMENT | ARCHITECTURE | INTERIOR DESIGN | CONSTRUCTION SERVICES
 DBE | DAS | MBE | CM/DMC CERTIFIED
 CIVIL | GEOTECHNICAL
 SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC
 36 JOHN STREET
 HARTFORD, CT 06106
 WWW.FREEMANCO.COM
 TEL: (860) 251-9550
 TOLL FREE: (800) 668-5141
 FAX: (860) 966-7161

ELEVATE YOUR EXPECTATIONS

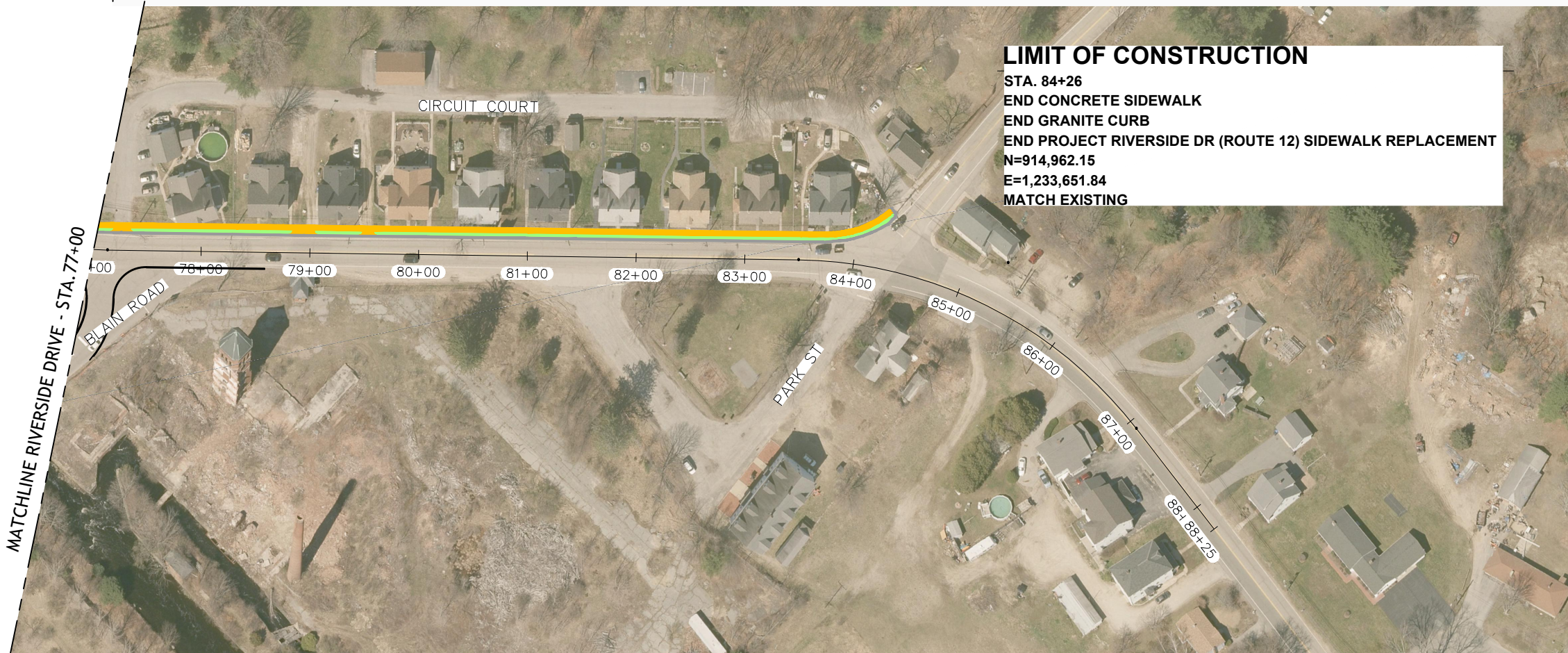
**RIVERSIDE DRIVE (ROUTE 12)
 SIDEWALK REPLACEMENT**

THOMPSON, CONNECTICUT

DESIGNED: Y.L.
 DRAFTED: C.S.
 CHECKED: Y.L.
 APPROVED: P.A.R.
 SCALE: AS NOTED
 FC PROJECT NO.: 2020-0302
 DATE: 11/19/2020
 CAD/HW_MSH_2020_0302_HWY

TITLE: ROADWAY PLAN

DWG NO.:
 SHEET NO.:



NO.	DATE	DESCRIPTION	REVISIONS

FREEMAN COMPANIES

 A PROFESSIONAL CORPORATION
 DBE | DAS | MBE | CMASDC CERTIFIED
 CIVIL | GEOTECHNICAL
 SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC

 36 JOHN STREET
 HARTFORD, CT 06106
 WWW.FREEMANCO.COM
 TEL: (860) 251-9550
 TOLL FREE: (800) 664-5141
 FAX: (860) 966-7161

ELEVATE YOUR EXPECTATIONS

**RIVERSIDE DRIVE (ROUTE 12)
 SIDEWALK REPLACEMENT**
 THOMPSON, CONNECTICUT

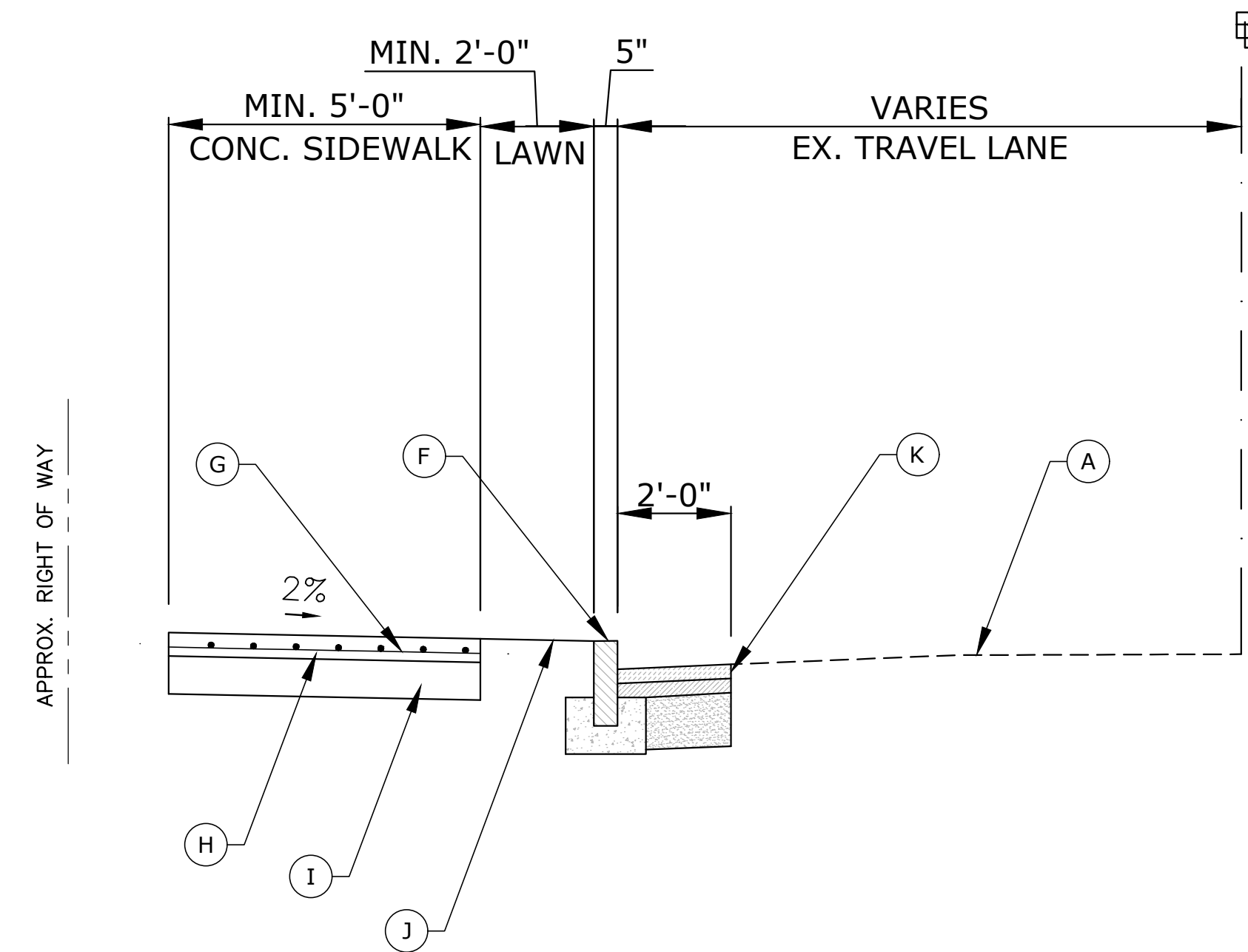
DESIGNED: Y.L.
 DRAFTED: C.S.
 CHECKED: Y.L.
 APPROVED: P.A.R.
 SCALE: AS NOTED
 FC PROJECT NO.: 2020-0302
 DATE: 11/19/2020
 CAD/HW_MSH_2020_0302_HWY

TITLE:
**ROADWAY
 PLAN**

DWG NO.:

SHEET NO.:

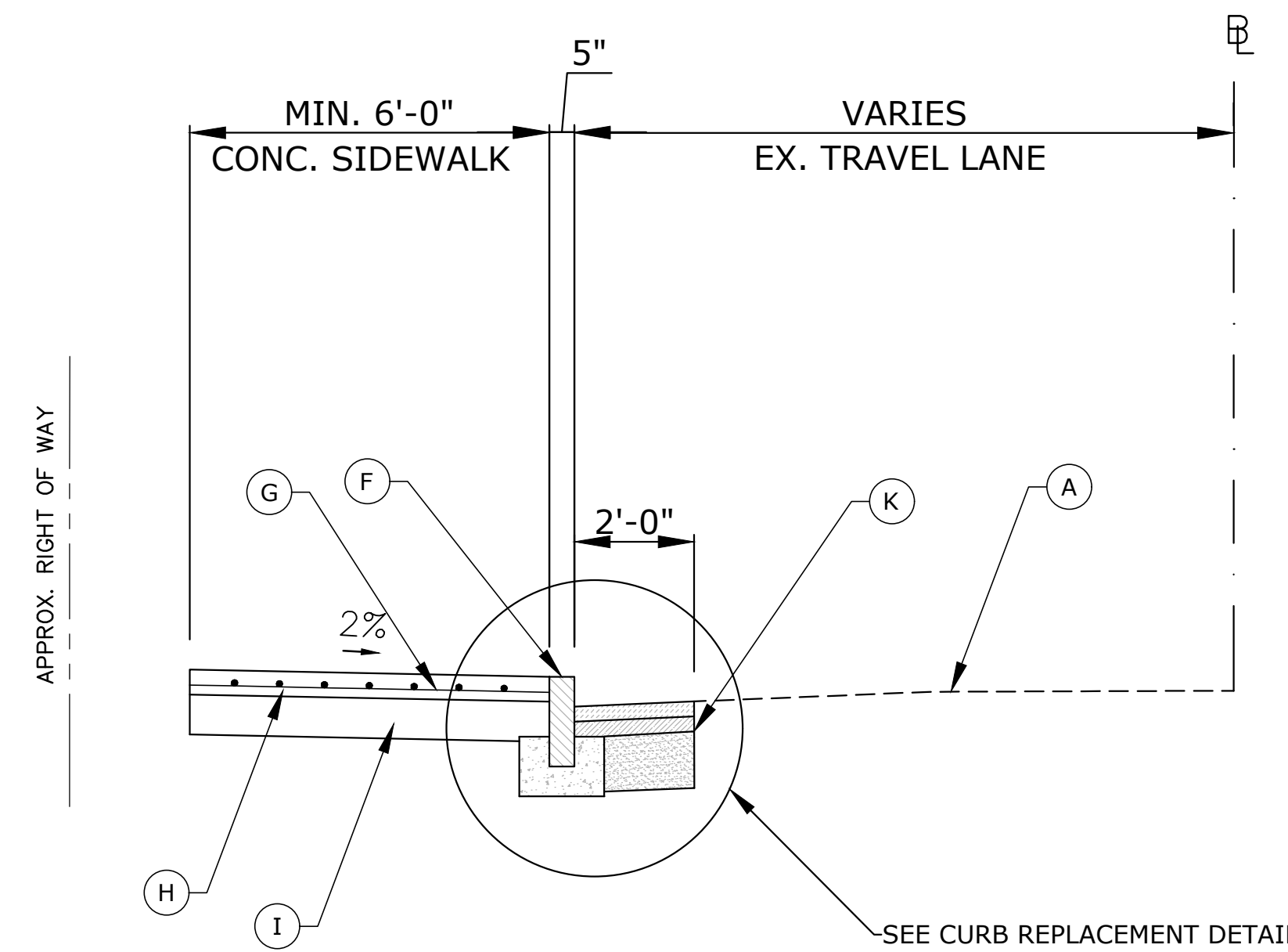
FREEMAN COMPANIES, LLC - R:\2020\2020-0302 Riverside Drive Sidewalk Replacement\DWG\HW_MSH_2020_0302_TYP.dwg Jul 31, 2020 - 3:48pm Plotted By: mkwkw



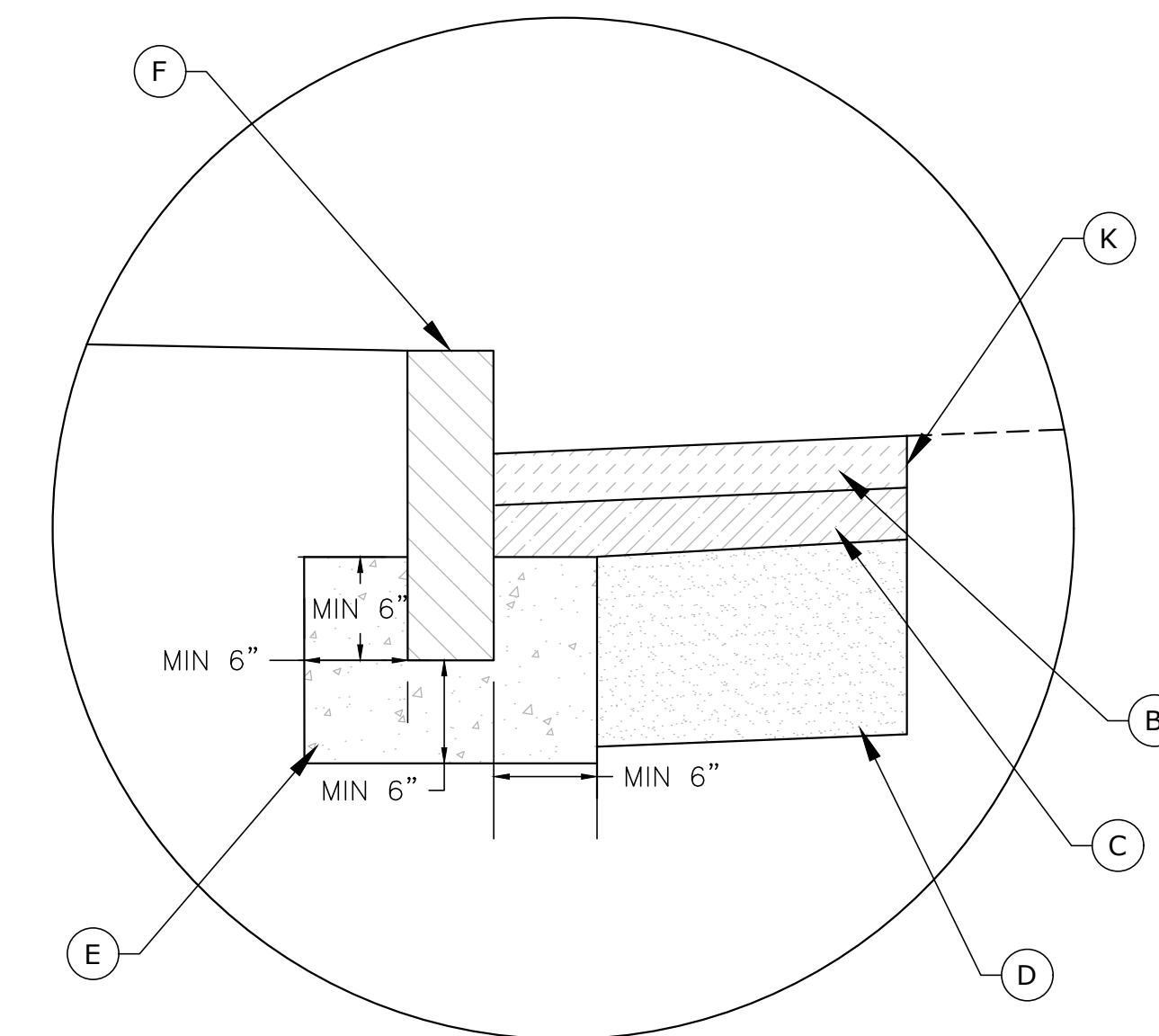
TYPICAL SECTION NO.1

TYPICAL SECTION LEGEND

- (A) EXISTING PAVEMENT
- (B) 3" HMA S1.0
- (C) 3" HMA S0.5
- (D) 14" PROCESSED AGGREGATE BASE
- (E) CLASS C CONCRETE AT JOINTS, PROCESSED GRAVEL FOUNDATION ELSEWHERE
- (F) GRANITE STONE CURB WITH SAWN TOP
- (G) 6" x 6" W2.1 x W2.1 WELDED WIRE FABRIC MID-DEPTH
- (H) 5" CLASS "C" CONCRETE
- (I) 8" PROCESSED GRAVEL BASE
- (J) 6" TOP SOIL & TURF ESTABLISHMENT
- (K) SAW CUT & TACK COAT JOINT SEAL AFTER PAVING
- (L) 8" CLASS "C" CONCRETE



TYPICAL SECTION NO.2

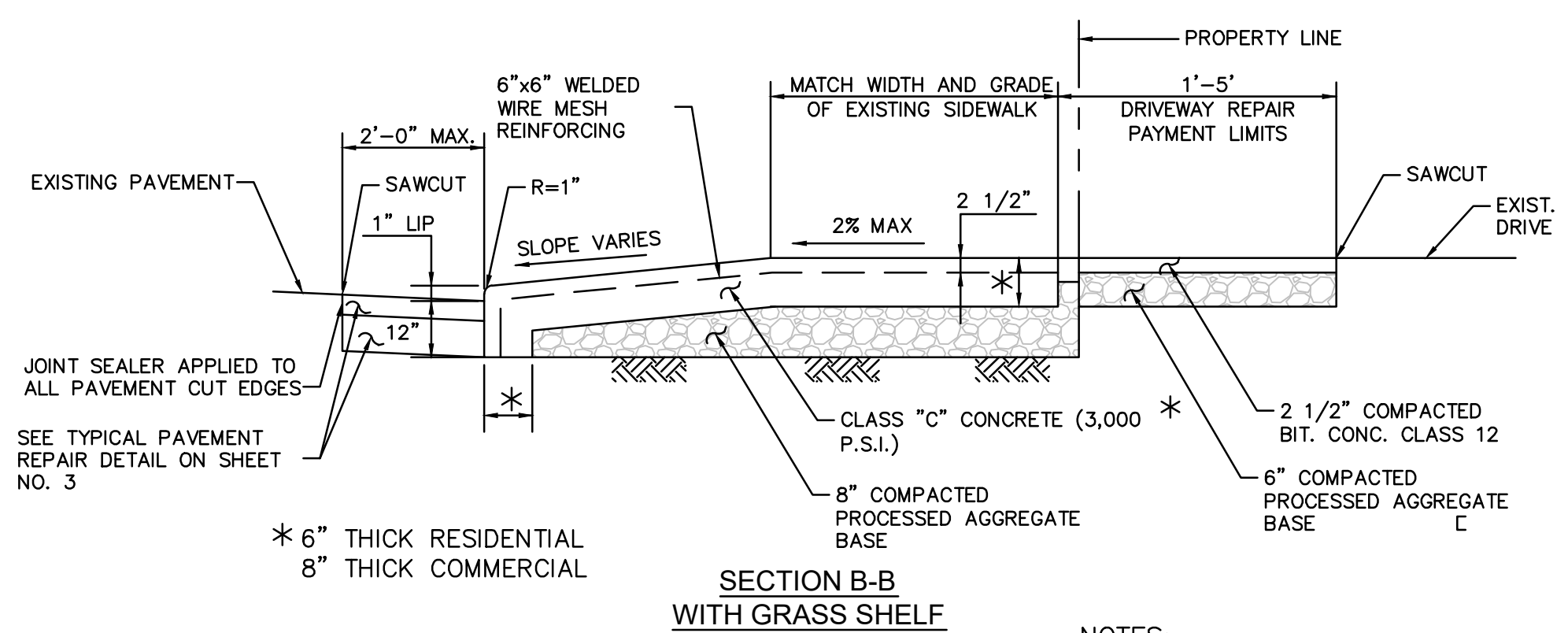
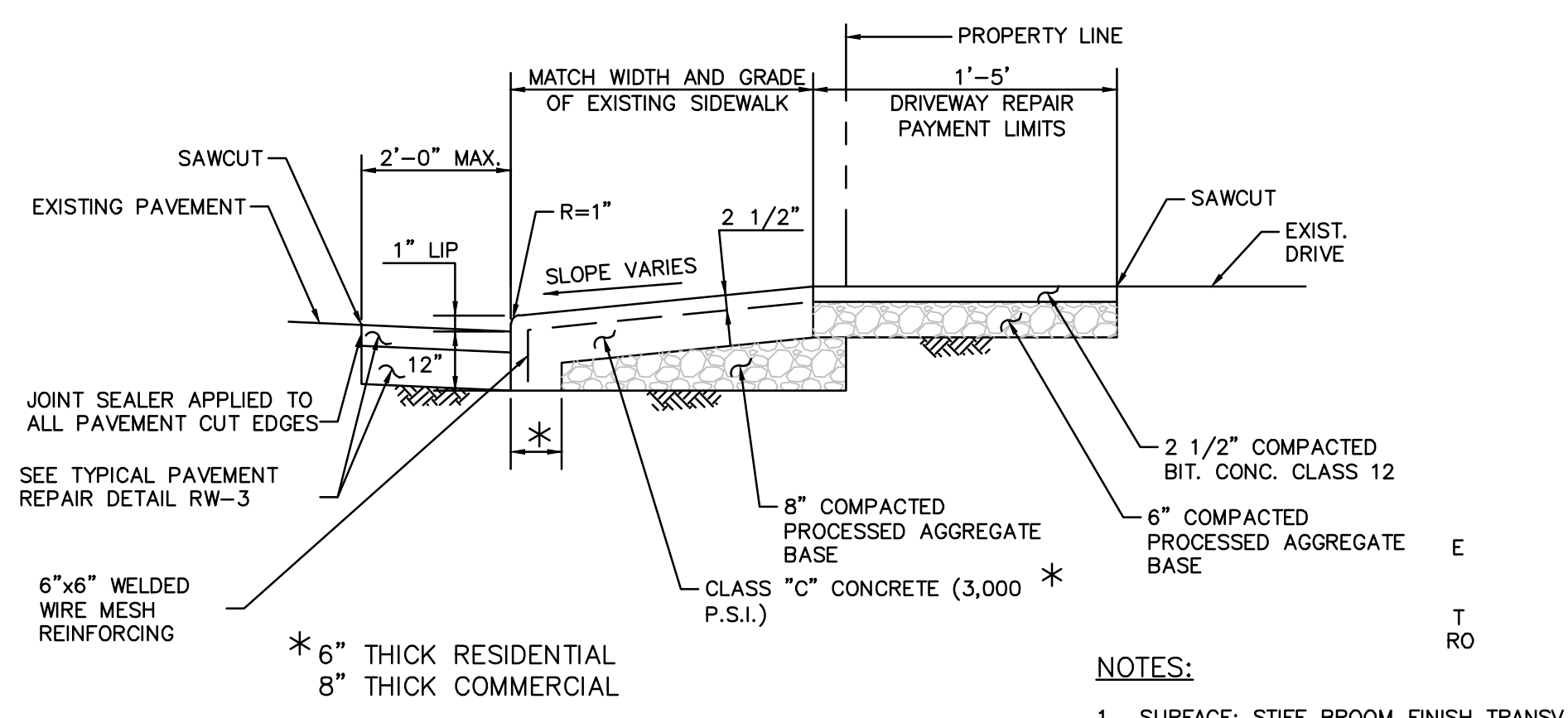
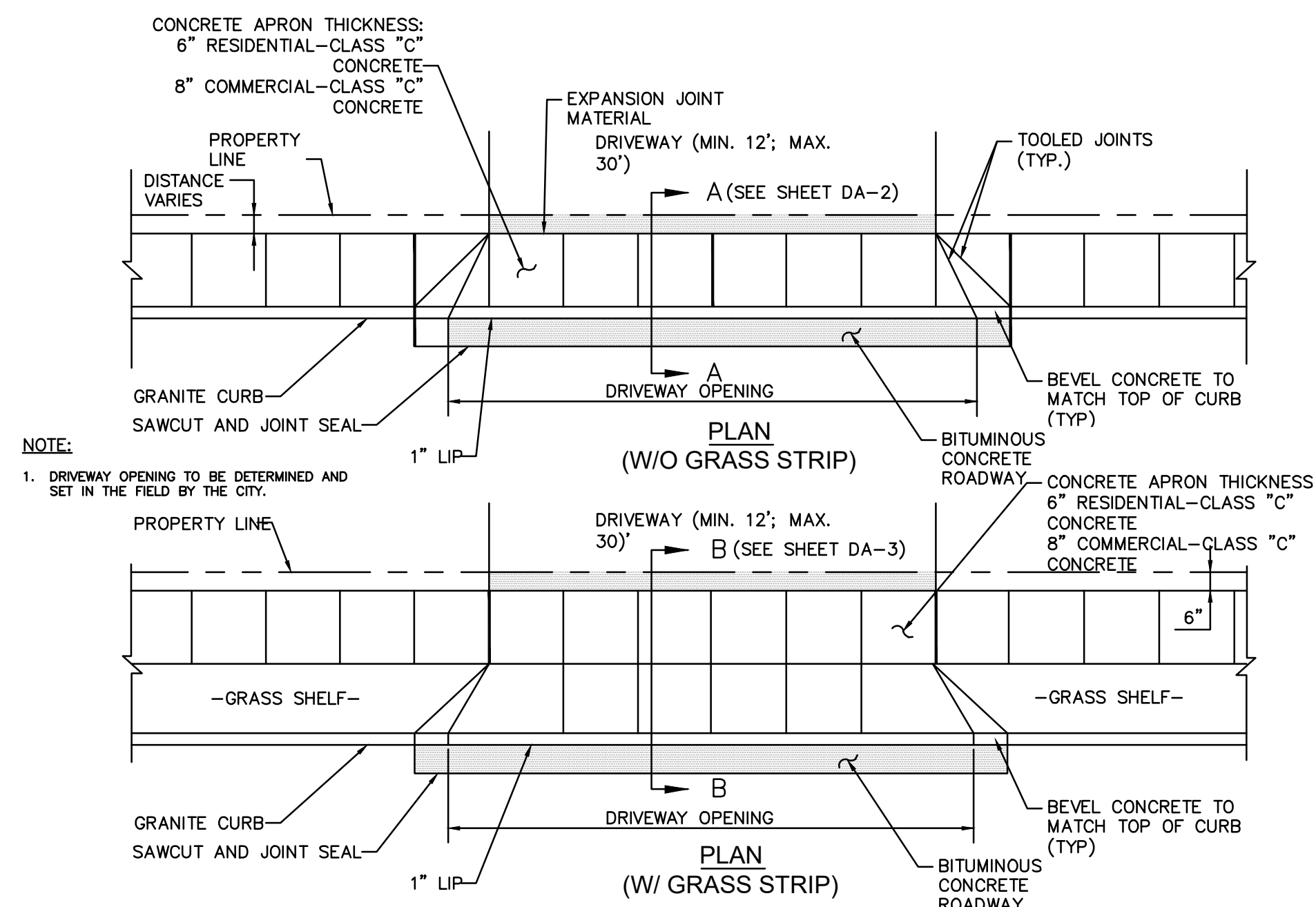


CURB REPLACEMENT DETAIL

NOTES:

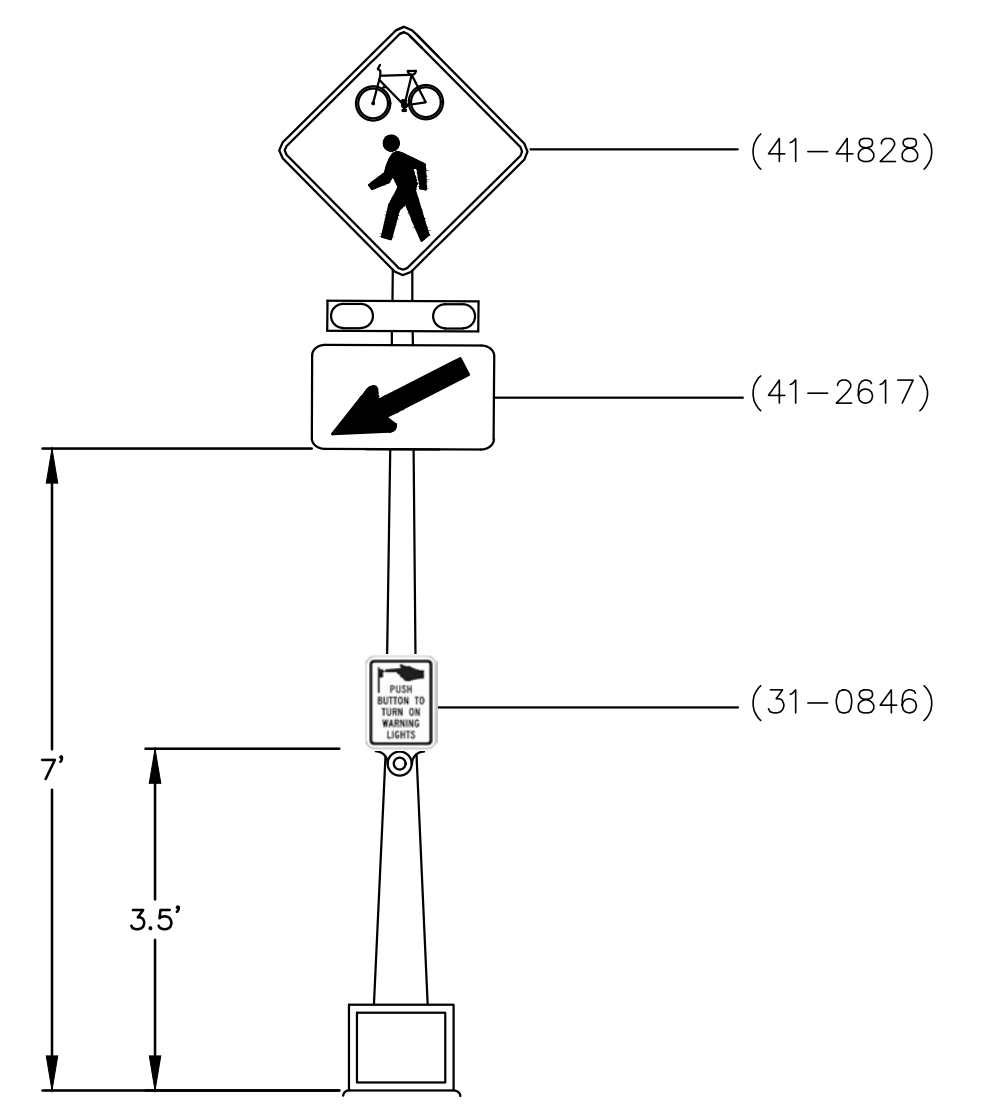
1. MINIMUM LENGTH OF CURB STONES-6', MAXIMUM LENGTH OF CURB STONES-10'.
2. ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
3. ALL CURVED CURB SHALL BE TRUE RADIAL CUT.
4. JOINTS BETWEEN STONES SHALL BE 1/4" MIN, 1/2" MAX; FILL JOINTS WITH MORTAR TO TOP.

	DESCRIPTION REVISIONS
	NO. DATE
 <small>DBE DAS MBE CMASDC CERTIFIED CIVIL GEOTECHNICAL SURVEY ENVIRONMENTAL</small> FREEMAN COMPANIES, LLC <small>36 JOHN STREET HARTFORD, CT 06106 WWW.FREEMANCO.COM TEL: (860) 251-9550 TOLL FREE: (800) 664-5141 FAX: (860) 986-7161</small>	
ELEVATE YOUR EXPECTATIONS	
RIVERSIDE DRIVE (ROUTE 12) SIDEWALK REPLACEMENT THOMPSON, CONNECTICUT	
DESIGNED: Y.L. DRAFTED: P.T. CHECKED: Y.L. APPROVED: P.A.R. SCALE: N.T.S. FC PROJECT NO.: 2020-0302 DATE: 07/02/2020 CAD: HW_MSH_2020_0302_TYP	
TITLE: TYPICAL SECTION	
DWG NO.: TYP-01	
SHEET NO.:	

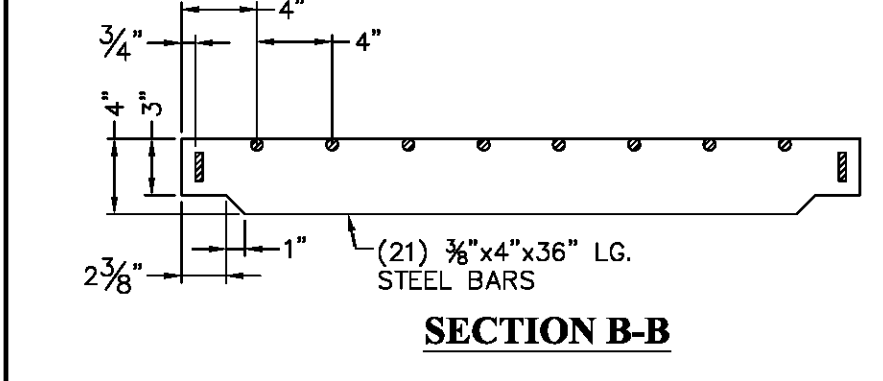
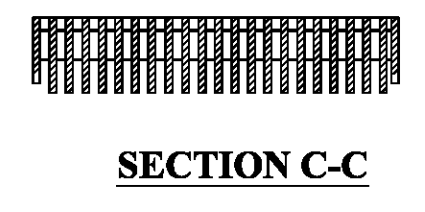
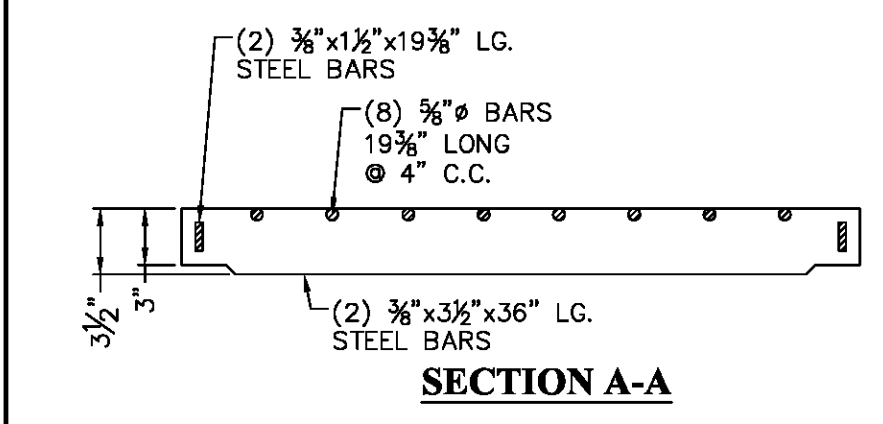
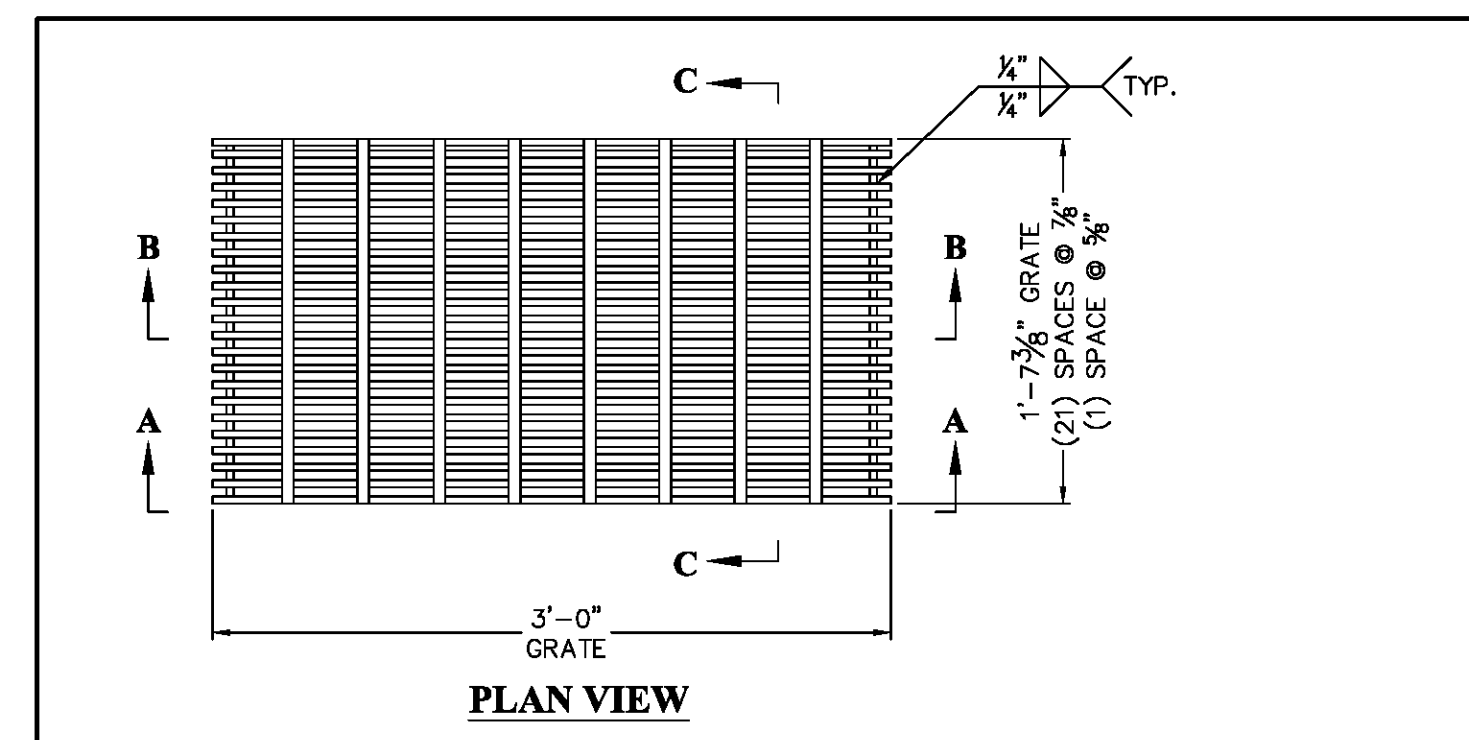
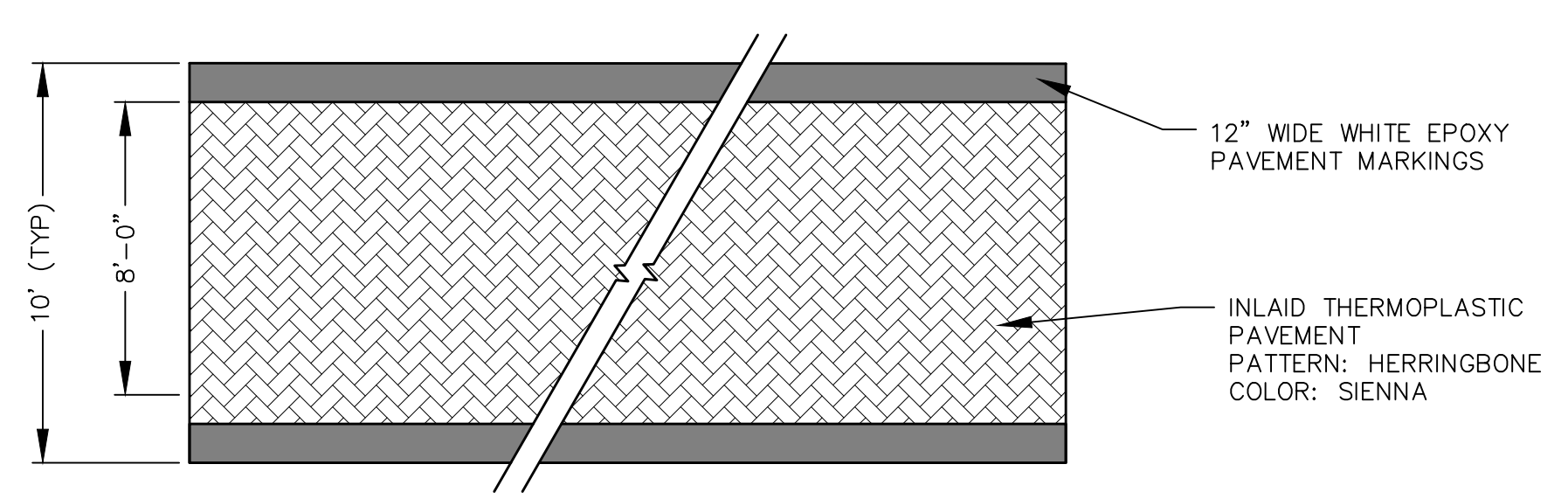


DRIVEWAY APRON DETAILS

CONCRETE DRIVEWAY APRON



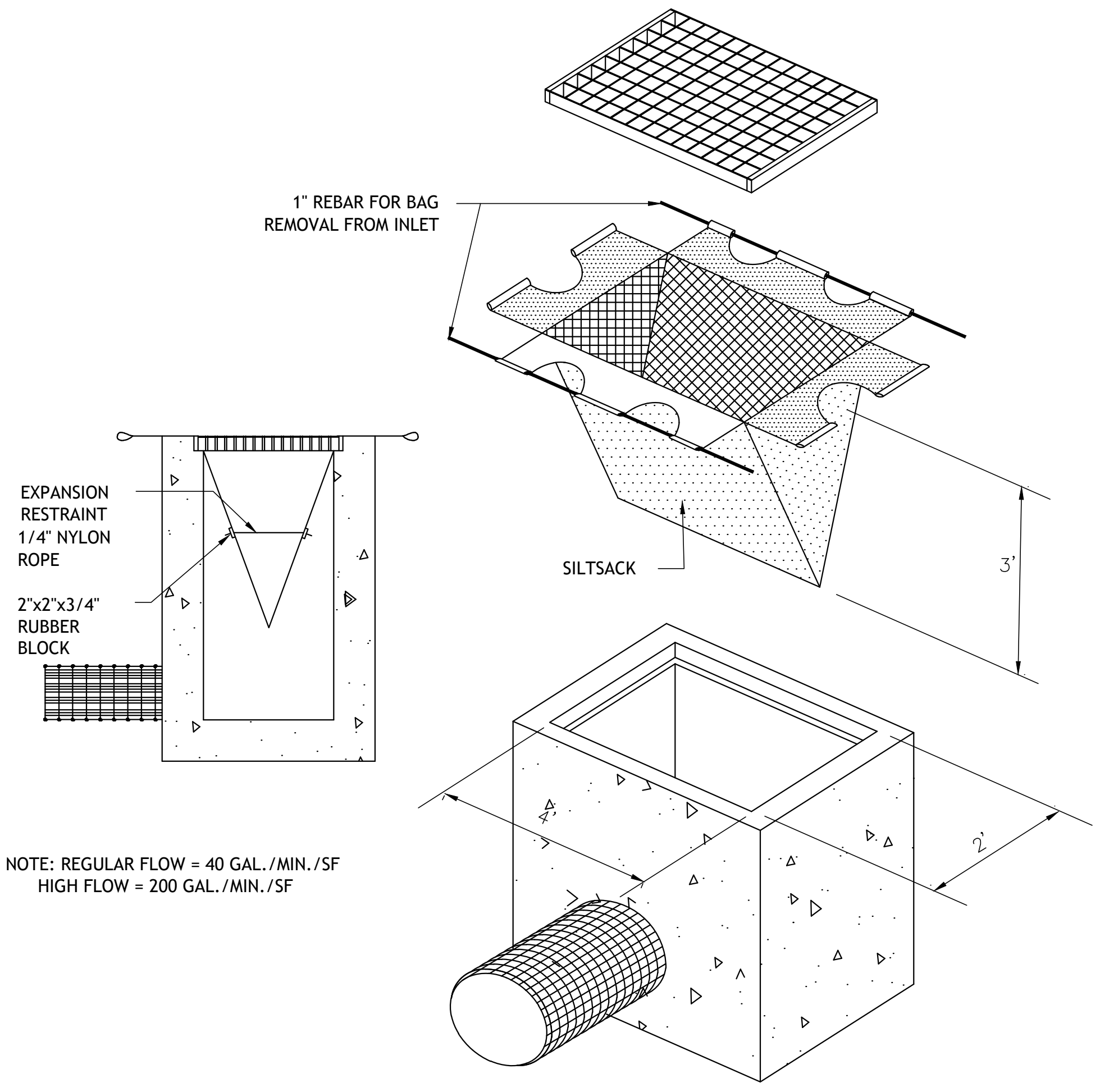
RECTANGULAR RAPID FLASHING BEACON TYPE B



PAINTED or GALVANIZED AFTER FABRICATION
APPROX. WT - 343 LBS

UNITED CONCRETE PRODUCTS, Inc. 173 CHURCH STREET YALESVILLE, CT 06492 TEL: (203)-269-3119 FAX: (203)-265-4941	CATCH BASIN GRATE - TYPE ADA		SCALE	NONE
	CUSTOMER	DATE	10/10/08	SHEET
	JOB	DRW	DH	SK-4
	LOCATION	CHK	JLT	

CB ADA GRATE



SILT SACK

FREEMAN COMPANIES, LLC . R:\2020\2020-0302 Riverside Drive Sidewalk Replacement\DWG\HW_MSH_2020_0302_MDS_1.dwg Jul 31, 2020 - 3:48pm Plotted By: mikew

NO.	DATE	DESCRIPTION	REVISIONS

FREEMAN COMPANIES
 DBE | DAS | MBE | CM/DMC CERTIFIED
 CIVIL | GEOTECHNICAL
 SURVEY | ENVIRONMENTAL

FREEMAN COMPANIES, LLC
 36 JOHN STREET
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RIVERSIDE DRIVE (ROUTE 12) SIDEWALK REPLACEMENT

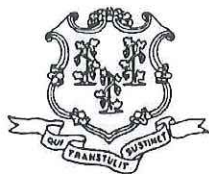
THOMPSON, CONNECTICUT

DESIGNED: Y.L.
 DRAFTED: P.T.
 CHECKED: Y.L.
 APPROVED: P.A.R.
 SCALE: N.T.S.
 FC PROJECT NO.: 2020-0302
 DATE: 07/02/2020
 CAD: HW_MSH_2020_0302_MDS_1

TITLE: MISCELLANEOUS DETAILS

DWG NO.: MDS-01

SHEET NO.:



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



2800 BERLIN TURNPIKE, P.O. BOX 317546
NEWINGTON, CONNECTICUT 06131-7546

December 23, 2020

The Honorable Amy St. Onge
First Selectman
Town of Thompson
815 Riverside Drive
P.O. Box 899
North Grosvenordale, Connecticut 06255

Dear First Selectman St. Onge:

Subject: Local Transportation Capital Improvement Program (LOTICIP)
Commitment to Fund
Sidewalk Improvements
State Project No. L141-0001
Riverside Drive (Route 12)
Town of Thompson

The Department of Transportation (Department) has received the LOTICIP application prepared by the Town of Thompson (Municipality) and submitted through the Northeastern Connecticut Council of Governments (COG) relative to the subject project. The Department has reviewed the application materials along with the revised cost estimate provided by the Municipality and subsequently endorsed by the COG.

The LOTICIP application for this project has been approved. The Department hereby commits to fund eligible project costs as follows:

Rights of Way	\$	0
Eligible Utilities	\$	0
Contract Items:	\$	1,757,000
Contingencies:	\$	175,700
<u>Incidentals to Construction:</u>	<u>\$</u>	<u>175,700</u>
Total Funding Commitment:	\$	2,108,400

This Commitment to Fund is subject to funding availability and general conditions including, but not limited to, the following:

1. The project is to be administered by the Municipality in accordance with the *Local Transportation Capital Improvement Program Guidelines*, dated March 2019, as may be revised. The guidelines are available on the Department's LOTICIP web page at www.ct.gov/dot/lotcip.

2. The project costs identified in this Commitment to Fund letter are based on estimates provided by the Municipality and endorsed by the COG. These costs are to be considered capped until adjustment, based on low bid or otherwise revised, in accordance with the LOTCIP guidelines.
3. Any scope revisions and/or twenty percent (20%) changes in cost identified during the design phase must be approved by the COG and the Department, as specified in the LOTCIP guidelines.
4. Upon completion of project design activities, the Municipality must forward to the Department, through the COG, a Final Design Submission along with supporting documentation and certifications, as defined in the LOTCIP guidelines.
5. The Municipality must execute and deliver a Project Authorization Letter (PAL) issued pursuant to the Master Municipal Agreement for Construction Projects and comply with its terms. The PAL will be forwarded to the Municipality for execution, subsequent to the receipt of the Final Design Submission package by the Department.

This commitment is further subject to the following project-specific conditions:

1. The LOTCIP application materials indicate that right of way acquisitions are not anticipated to be required for the project. Should it be determined during the design phase that right of way acquisitions will be required, the Municipality must notify the Department through the COG as specified in the LOTCIP guidelines.
2. This project will require work be performed within the State-owned right of way along Riverside Drive (Route 12). As such, an encroachment permit will be required. **It is imperative that the design of the improvements proposed under this project be coordinated with the Department during the design phase to ensure conformance with applicable requirements relative to proposed work within State-owned right of way or otherwise affecting State-owned facilities. Establishing early coordination relative to the encroachment permit process is recommended.** All matters relative to the encroachment permit process for this project are to be coordinated through the following Department contact:

Mr. Andrew S. Morrill
Special Service Section Manager (District 2)
(860) 823-3200
Andrew.Morrill@ct.gov

3. During the application review and comment process, it was determined that the proposed parking area for the restaurant on Route 12 at Rawson Avenue is within the State-owned right of way and would require a lease agreement between the property owner and the Department. All matters relative to the lease agreement for this project are to be coordinated through the following contact with the Department's Division of Rights of Way:

Ms. Amy N. Martinez
Transportation Principal Property Agent
(860) 594 - 2391
Amy.Martinez@ct.gov

Please be informed that, in accordance with the LOTCIP guidelines, the Department will initiate a Permit Need Determination and an Environmental Screening Review for this project to assist the Municipality in identifying items relative to natural resources, historic/archaeological resources, etc. that may need to be investigated or addressed during the design phase. The Environmental Screening Review is expected to be completed within approximately sixty (60) days. The Permit Need Determination is expected to be completed within approximately ninety (90) days. The results will be forwarded to the Municipality and the COG, when received.

If the Municipality accepts this Commitment to Fund, please sign below and return a copy of this letter to this office within thirty (30) days. Transmission via e-mail is acceptable.

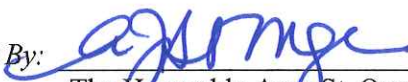
If you have any questions, please contact the Project Manager, Mr. William Grant, P.E. at (860) 594-3229 or by e-mail at William.E.Grant@ct.gov.

Very truly yours,



Theodoro H. Nozamas,
P.E.
2020.12.21
14:26:16-05'00'
For:

Division Chief of Highway Design
Bureau of Engineering and Construction

Accepted By: 

The Honorable Amy St. Onge
First Selectman


Date 12-22-2020

- cc: Ms. Tyra Penn-Gesek, Director of Planning and Development, Town of Thompson
- Mr. John Filchak, Executive Director, Northeastern Connecticut Council of Governments
- Mr. Jim Larkin, Associate Director, Northeastern Connecticut Council of Governments

[Reply](#)[Forward](#)[Delete](#)**Town of Thompson Riverside Driveway sidewalks application****Date:** 01/08/2021 (12:19:50 PM CST)**From:** Janet Blanchette**To:** 'wetlands@thompsonct.org (wetlands@thompsonct.org)'**Cc:** firstselectman@thompsonct.org Tyra Penn- Gesek (planner@thompsonct.org)

Richard Benoit (dpwdirector@thompsonct.org) Ken Beausoleil (kbeausoleil@thompsonct.org) 'Yuyang Lin'

You replied to all recipients of this message on 01/09/2021 08:51:10 AM.

 Text (4 KB)

Good Afternoon Marla,

Would you please add this additional information to the application file?

The MSRAC committee, along with selectmen Amy and Ken in attendance, met this morning via ZOOM. The engineer from our consultant, Freeman Companies, was also in attendance.

We discussed the drainage problem near Thatcher Road as well as the two drainage structures to the north that the intermittent stream from the school grounds drains into. Earlier in the week I also discussed this problem with Rich Benoit. As you aware these drainage structures are owned by the State and not the Town. During our MSRAC meeting Ken mentioned that the Town has previously reached out to CTDOT to ask them to maintain their system. Rich reported that the pipe is clogged and the structure behind the sidewalk's grate is also prone to clogging. Both these situations cause the flooding and icing over of parts of Route 12. Rich also confirmed that the Town has reached out to DOT making them aware of the problem and asking them to repair it.

The proposed project consists of sidewalk replacement. The only drainage improvement proposed is to replace CB tops since it is a state owned system. However, we acknowledge that it will be beneficial if the sidewalk project can help reduce drainage problems in this area. Freeman Companies offered the following suggestions. They will put a note on the plans requiring the contractor to clean out the pipe. They will also "tweak" the grading in that flat area to help direct runoff into the CB's. In addition, the next time our consultant takes a final walk through the site he will evaluate the structure behind the sidewalk and see if there are any straightforward solutions for improvements. We aren't sure that a simple solution will be identified, but it will at least be investigated. We will let you know what the findings are.

If you feel that any future work in this area will require an individual permit verses an agent approval then please make that change.

Please call me if you have any questions.

Janet J. Blanchette, PE

Chairperson, MSRAC Committee

Agenda Item E.b) 2. New Applications

DEC21001 – Jason Roach, 23 Center Street (Assessor's map 116, block X, lot 9), replacement of existing stone deck and stairs in the 100-foot upland review area for Little Pond for use permitted as of right – maintenance and enjoyment of residential home, stamped received 1/5/2021.



Town of Thompson
INLAND WETLANDS COMMISSION
815 RIVERSIDE DRIVE
NORTH GROSVENORDALE, CT 06255

For Commission Use Only

Application #: DEC21001

Received

JAN 05 2020

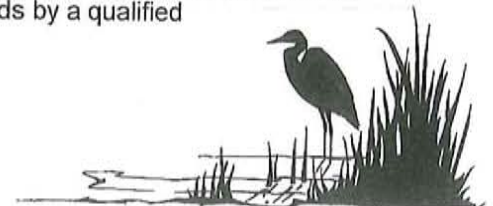
Thompson Wetlands Office

APPLICATION FORM - USE PERMITTED AS OF RIGHT OR NON-REGULATED USE

Applies to those actions proposed as a use permitted as of right or non-regulated use listed in sections 4.1 and 4.2 of the Thompson Inland Wetland and Watercourse Regulations, except timber harvests (for timber harvests use Timber Harvest Form). Unless identified as "Optional" all information is mandatory.

Part I Request for Use Permitted as of Right or Non-Regulation Use (check one only):

1. Propose use or activity conforms to the following permitted uses as outlined in section 4.1 of the Thompson Inland Wetland and Watercourse Regulations (check as appropriate):
 - a. Grazing, farming, nurseries, gardening and harvesting of crops.
 - b. Farm pond three (3) acres or less essential to the farming operation.
 - c. Construction of a residential home for which a building permit has been issued prior to July 1, 1987, attach copy of valid building permit and site plan.
 - d. Boat anchorage or mooring.
 - e. Use incidental to the maintenance and enjoyment of property presently used for residential purposes that contains a dwelling. Such property is equal to or smaller than the largest minimum residential lot size as permitted in the Town of Thompson.
 - f. Construction and operation by a water company of a dam, reservoir or other facility necessary for the impounding, storage and withdrawal of water in connection with public water supplies.
 - g. Maintenance of drainage pipes on residential property that existed prior to July 1, 1974.
2. Proposed use or activity will not disturb the natural or indigenous character of the wetland or watercourse and conforms to one of the following non-regulated uses outlined in section 4.2 of the Thompson Inland Wetlands and Watercourses Regulations (check as appropriate):
 - a. Conservation of soil, vegetation, water, fish or wildlife.
 - b. Outdoor recreation
 - c. Dry Hydrant installation by authority of the municipal fire department
3. The proposed use or activity is not regulated by the Thompson Inland Wetlands and Watercourses Regulations because (check as appropriate):
 - a. The proposed activity or use is one which is the exclusive jurisdiction of State or Federal agency. Provide documentation (See Section 5 of these regulations)
 - b. The use or activity legally existed as of July 1, 1974, and does not involve new, additional or expanded use or activity. Provide documentation.
 - c. The proposed activity is not a regulated activity as defined by section 2 to the Thompson Inland Wetlands and Watercourses Regulations (delineation of wetlands by a qualified soil scientist may be required)



Part II Contact Information

1) Applicant Contact Information

a) Applicant Name: JASON ROACH

b) Mailing Address: 945 Webster St
 (include town state zip) Needham, MA 02492

c) Daytime Phone #: 617-599-9576

d) Evening Phone #: _____

e) Cell Phone # (optional): SAME

f) Email Address (optional): jason.roach@gmail.com

2) Applicant's Interest in Property (check one only)

property owner lessee easement holder

3) Owner Contact Information (required if applicant is not property owner)

a) Name: _____

b) Mailing Address: _____
 (include town state zip) _____

c) Daytime Phone #: _____

d) Evening Phone #: _____

e) Cell Phone # (optional): _____

f) Email Address (optional): _____

Part III Site Information

1) Property Involved (following information obtained from tax assessor and town clerk's records):

Street Address	Assessor's Reference		
	Map	Block	Lot
<u>23 Center St Thompson</u>	<u>116</u>	<u>X</u>	<u>9</u>

2) Attach an 8 1/2 inch by 11 inch location map for the property (printable map from Thompson MapGeo with property outlined is acceptable – see <https://thompsonct.mapgeo.io>)

3) Wetlands (as delineated by qualified soil scientist) / Watercourse Area Altered

a) Wetlands: 0 (in square feet)

b) Open Water Body: 0 (in square feet)

c) Stream: 0 (in linear feet)

4) Noteworthy Wetlands / Watercourses: Does the property contain a noteworthy wetland or watercourse as identified in the document "Town of Thompson Inland Wetland Inventory" prepared by the Northeastern Connecticut Regional Planning Agency dated 1980? (see http://thompsonct.org/images/stories/Inland_Wetlands/Inlands-Wetlands-Watercourse-Map.pdf - check one) No Yes (If Yes, then upland review area = 200 ft.)

5) Upland Review Area altered: ~600 (in square feet)

For 6 & 7 below see http://thompsonct.org/Images/stories/Planning_Development/Inland_Wetlands/Drainage-BasinsTopo-Grid-2017.pdf

6) U.S.G.S. Topographic Quadrangle (check all involved)

#13 Webster MA

#14 Oxford MA

#28 Putnam

#29 Thompson

7) Drainage Basin #(s) wherein the proposed activity will take place (check all involved):

French River 3300 3301

Quinebaug River 3700 3708

Five Mile River 3400 3401 3402

Part IV Description of Activity Proposed

1. Detailed project description and purpose: Replace existing fieldstone patio + stairs that ~~has~~ has fallen into disrepair (heaving from roots, etc). Use skid steer to remove existing patio - materials to be hauled away, replace with thin layer of gravel and new stone patio.

- Same size, same area, no activity in pond a simple replacement of existing patio and 2 stairs.

- THE TREE which were generating root issues have been removed so disrupting roots causing heaving should not be an issue

2. Attach a diagram, drawing or plot plan of sufficient scale and detail to portray the proposed activity.

Part V Application Permissions & Certifications

1) Owner's Permission¹

I, the undersigned, am the owner of the above reference property and hereby grant permission to the Thompson Inland Wetlands Commission and its duly authorized agents to enter upon this property at reasonable times both before and after a final decision on this application has been issued by the Thompson Inland Wetlands Commission for purposed of inspection and enforcement of the Inland Wetlands and Watercourse regulation of the town of Thompson. Further, I have had an opportunity to review the Inland Wetlands and Watercourses Regulations of the Town of Thompson and understand that these regulations regulate activities conducted on my property.

Jason Rowell
(Signature of property owner)

12/30/2020
Date

For all persons excluding individuals print name and title of signatory above

2) Applicant's Certification¹

I, the undersigned, certify that the information supplied in the completed application is accurate, to the best of my knowledge and belief and am aware of the penalties for obtaining the permit through deception, inaccurate or misleading information.

Jason Rowell
(Signature of applicant)

12/30/2020
Date

For all persons excluding individuals print name and title of signatory above

***** For Commission Use Only *****

Agency Response:

IWC Chair Signature:

Date:

¹ If owner is (1) a corporation, then signature is required to be by a principal executive officer of at least the level of vice president, (2) a limited liability company (LLC), then signature is required to be by a manager, if management of the LLC is vested in a manager(s) in accordance with the company's "Articles of Organization", or a member of the LLC if no authority is vested in a manager(s), (3) a partnership, then signature is required by a general partner; (4) the Town of Thompson, then signature is required by the First Selectman, (5) any other municipality, the signature is required by a ranking elected official, or by other representatives of such applicant authorized by law, and (6) a sole proprietor, then signature is required by the proprietor.

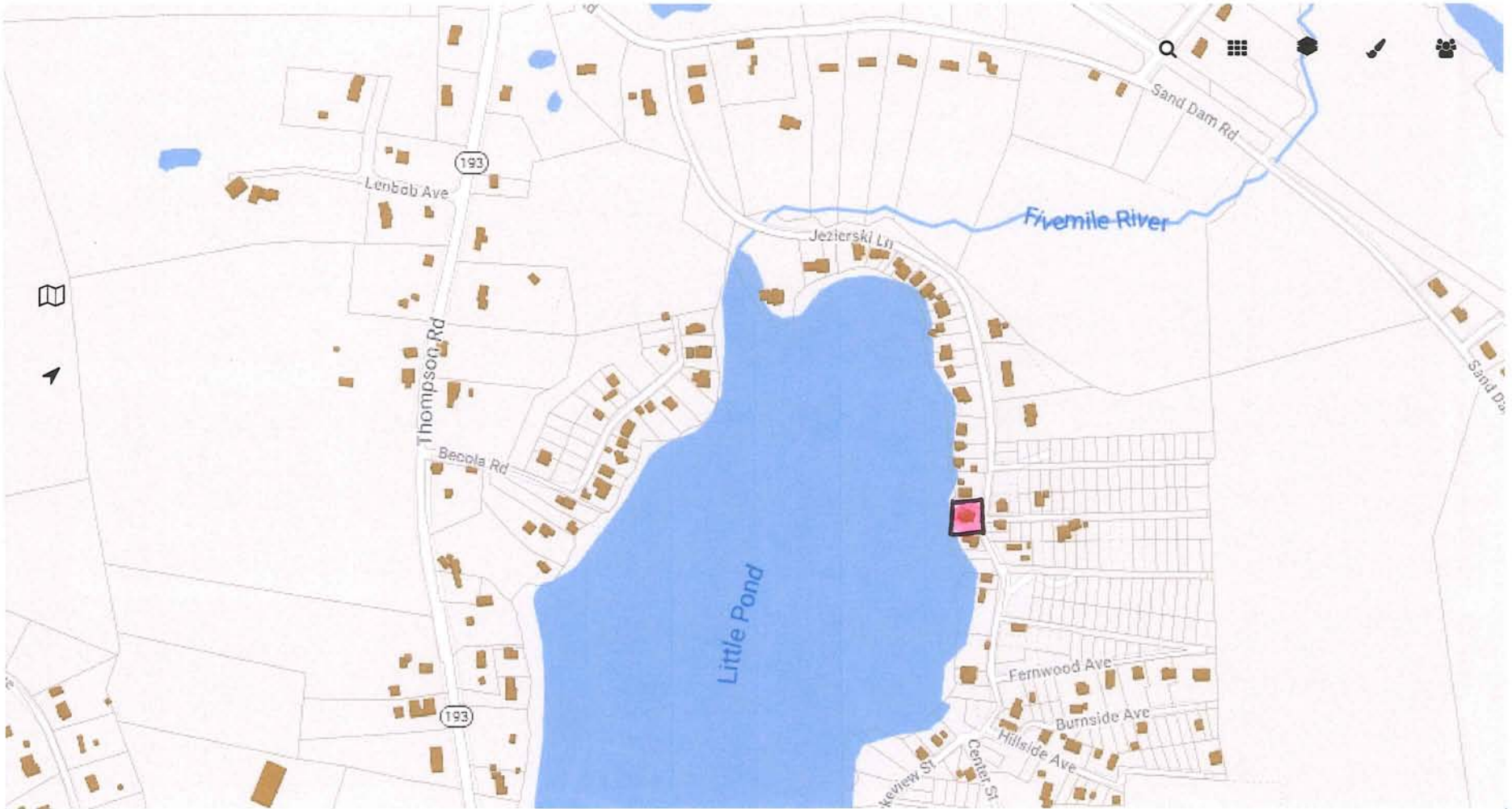
Town of Thompson, CT



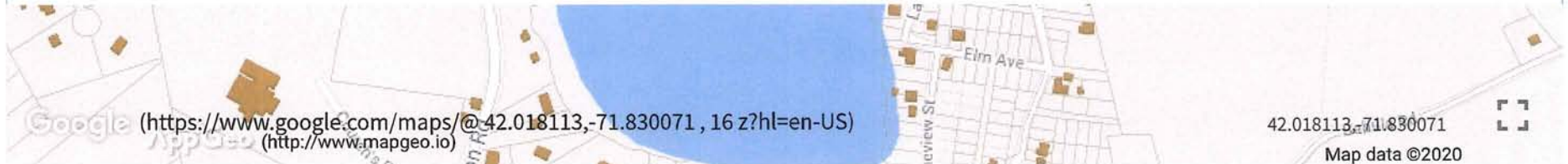
Property



Property Quick Search



(<http://help.mapgeo.io/>)



<https://www.google.com/maps/@42.018113,-71.830071,16z?hl=en-US>
(<http://www.mapgeo.io>)

42.018113,-71.830071

Map data ©2020



Town of Thompson, CT
Property

Property Quick Search

23 CENTER ST

Google Directions (https://maps.google.com/?addr=23

View Details (/datasets/properties/3183)

Google Maps Link
(https://www.google.com/maps/@42.0154665544)

Property Record Card (http://gis.vgsi.com/Thomps
Pid=3183)

Town of Thompson (http://www.thompsonct.org/)

Property

Address 23 CENTER ST
Account Number 3183
Map Block Lot 116 9

Ownership

Name ROACH JASON M + ELAINE
Address 23 HUMMINGBIRD LN
WALPOLE, MA 02081

Valuation

Total \$221,000
Land \$91,700
Building Value \$126,800
Last Sale \$339,000 on 2014-07-16
Book/Page 278/

Land

Area 0.31 AC
Zone R40
Land Use Code 1013

Historic Properties (http://help.mapgeo.io/)

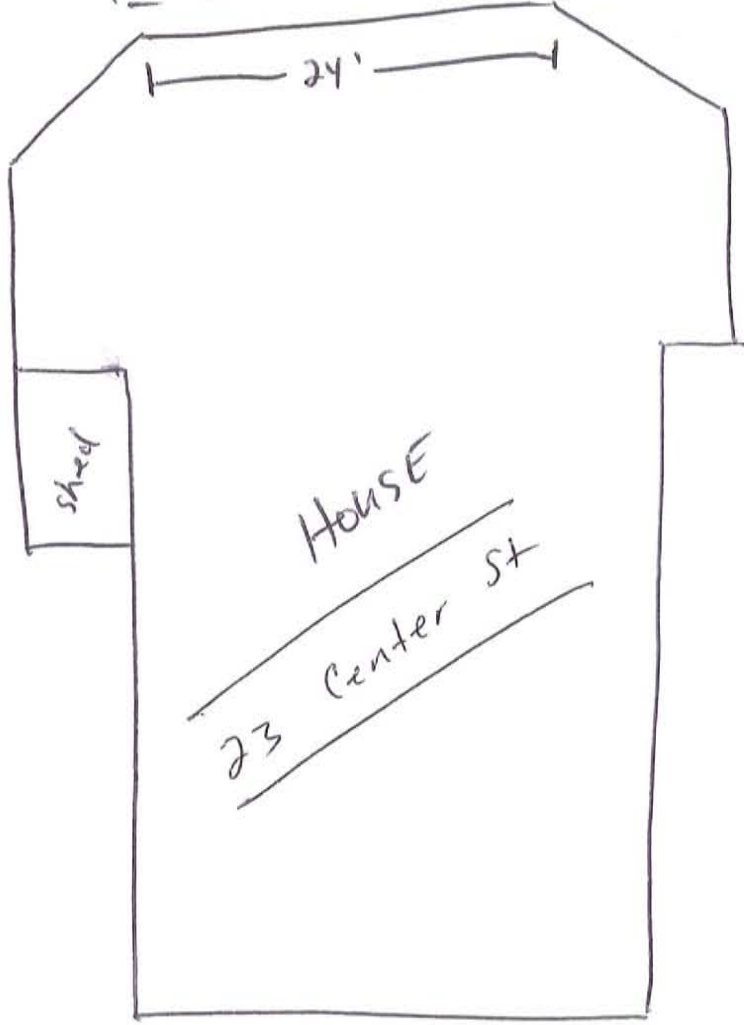
No results found



LITTLE POND

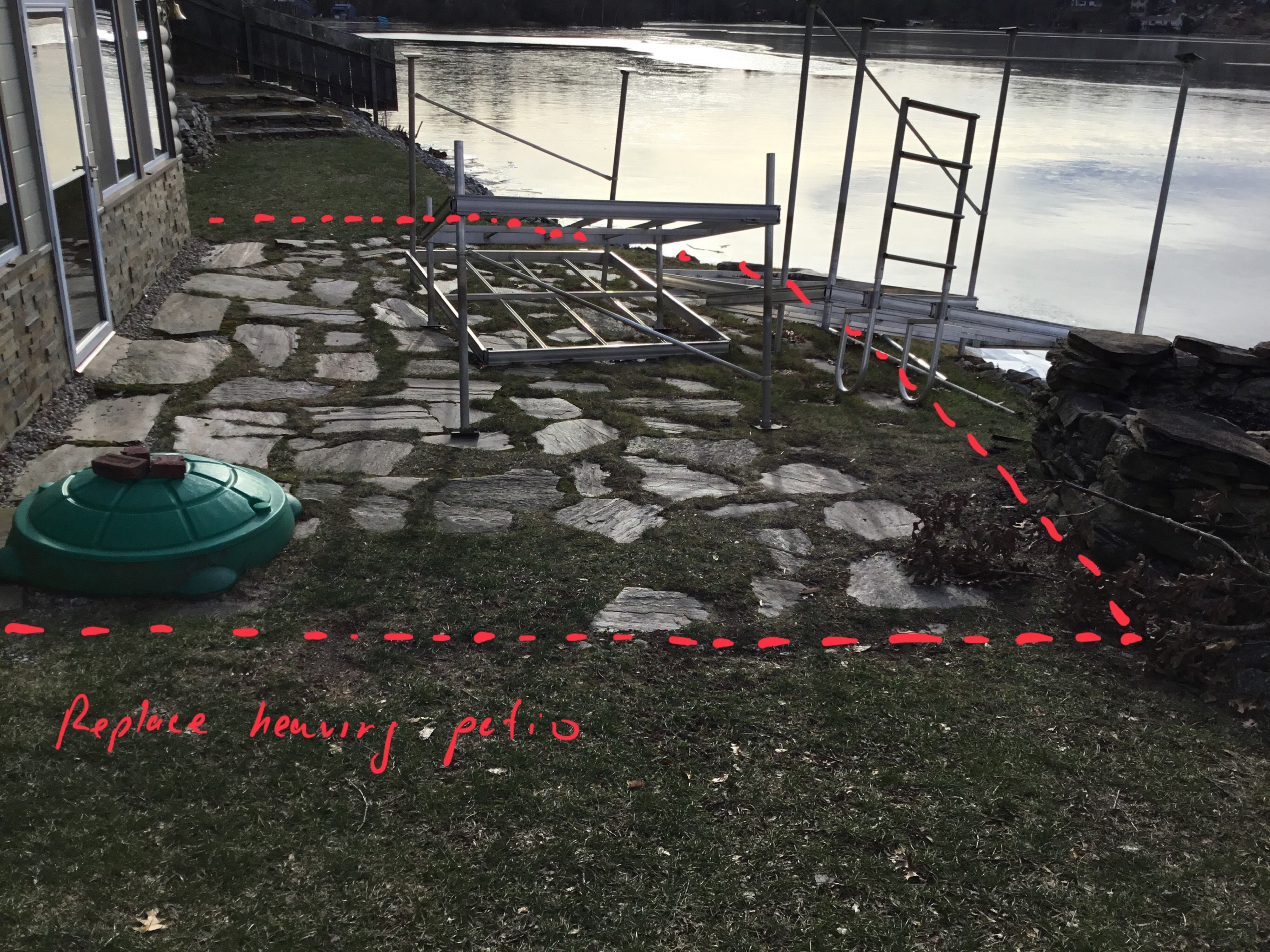


Approx. 600 sq ft patio
to be replaced

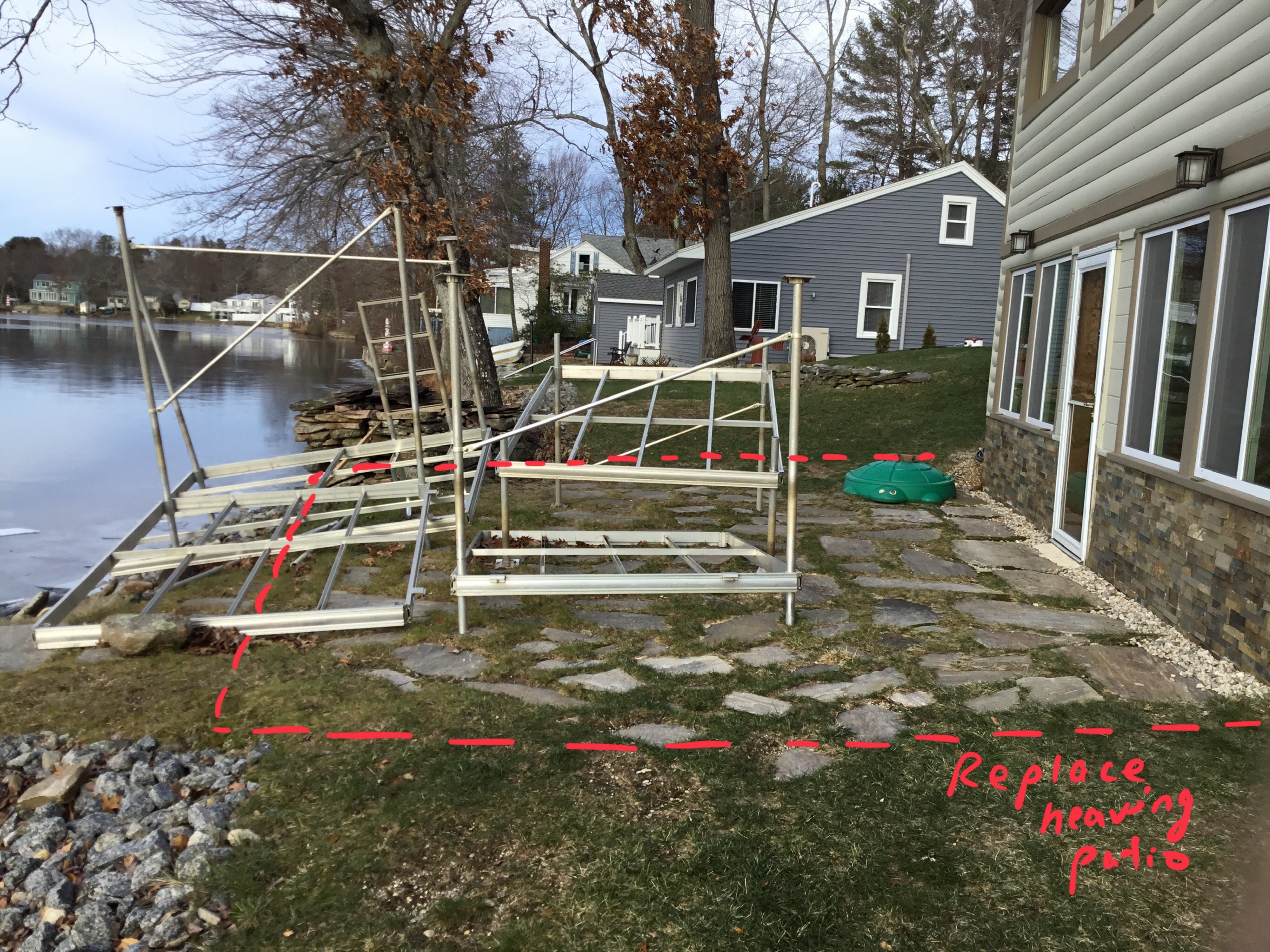


Center St





Replace heavy patio



Replace
heaving
patio

E.c) 1. Applications Received After Agenda was
Published

IWA21002 – Lisa M. Audette, 0 Robbins Road (map 87, block 53, lot 8A-1), grading and construction of stone ford across an intermittent watercourse / wetlands to develop an access for pedestrian and tractor use associated with the construction of a proposed new daycare facility, received by Town Clerk 1/8/2021, under review.

Original

for commission use:	rev 1/11
application # <u>IWA21002</u>	
date received <u>Jan 8, 2021</u>	

PERMIT APPLICATION
 TO CONDUCT A REGULATED ACTIVITY
 TOWN OF THOMPSON, CT.
 2021 JAN -8 P 12:53
Linda Paradise
 TOWN CLERK, Assf

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)

- Individual Lot \$50 + \$60
 (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.)
- 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.

Received
 JAN 11 2020

Date 1/6/21

1) Name of Applicant LISA M. AUDETTE
Home Address 3 JASON HEIGHTS P.O. BOX 341
THOMPSON, CT 06277
Home Tele & Hrs 860-576-0998 Business Tele & Hrs _____
Business Address _____

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 C, L & P 113
Street or Road Location 0 ROBBINS ROAD
Tax Assessor's Map # 87
Block # 53
Lot # that appears on site plan 8A-1
Deed Info : Volume # 974
Page # 105

5) The property to be affected by the proposed activity contains:

Soil Types RIDGEBURY
Wetland Soils _____ (Swamp _____ Marsh _____ Bog _____ Vernal Pool _____)
Watercourses _____ (Lake or Pond _____ Stream or River _____ Intermittent Stream)
Floodplain - Yes/No

6) Purpose and Description of the Activity for which Approval is requested:

a. Give a complete description of the proposed activity CONSTRUCT DAY CARE
EAST OF UPLAND REVIEW AREA. PROJECT INCLUDES
INTERMITTENT STREAM CROSSING FOR PEDESTRIAN &
TRACTOR ACCESS TO FIELD WEST OF STREAM

If the above activity involves deposition or removal of material, what is the quantity? 2 CY STONE
100 SF DISTURBANCE

b. 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.
- N/A 5-Flood Hazard area classification and delineation with base flood elevations.
- 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.
- N/A 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 *Connecticut Guidelines for Soil Erosion and Sedimentation Control* 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 *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.
- 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) CHOSE LEAST DISTURBANCE ALTERNATE WHICH WILL NOT AFFECT FLOW OF WATER

d. Have any alternatives been considered? YES
If yes, explain why this proposal was chosen CONSIDERED A FOOT BRIDGE OR CULVERT. HOWEVER, THERE IS NO DEFWD CHANNEL WITH BANKS SO CROSSING 'AT GRADE' WILL HAVE LESS DISTURBANCE BECAUSE FILL HEIGHT IS MINIMIZED

- 7) Is any portion of this property located within 500' of the boundary of an adjoining municipality? NO
 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? 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.
- 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? NO 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 SPRING 2021
 Estimated date of completion (all disturbed areas are stabilized) SPRING 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, 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.


 Signature of Applicant 1-8-2021
Date

 Consent of Landowner if other than applicant Date

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

Application IWA21002
Copy 1

White Barn Children's Centre

Stormwater Management Report

Prepared For

Lisa Audette

Thompson, CT

January 7, 2021

Prepared by:

**J & D Civil
Engineers, LLC**

401 Ravenelle Road
N. Grosvenordale, CT 06255

Received

JAN 11 2020

Thompson Wetlands Office

Table of Contents

- A. Project Narrative
- B. Existing Site and Hydrologic Soil Group Descriptions
- C. Proposed Drainage Patterns
- D. Low Impact Development (LID) Features
- D. Methodology
- E. Results and Comparison of Existing and Proposed Flows
- F. Stormwater Quality

Appendices

- I. Hydrologic Model
- II. LID Checklist

A. Project Narrative

The project will consist of the construction of a 2400 SF child day care facility with an 8-space parking lot. A trail, with a wetland crossing, will be constructed for outdoor education in the back (western) field.

B. Existing Site and Hydrologic Soil Group Description

The site is 2.63 acres in size. The eastern half of the property slopes southwesterly toward an intermittent watercourse at the toe of slope. Runoff is via sheet flow. The portion of the property to be developed was filled years ago.

The Natural Resource Conservation Service (NRCS) groups soils into four categories according to their runoff producing characteristics. Hydrologic soil Group A consists of soils that have a high infiltrative capacity and a low runoff potential even when saturated. Hydrologic soil Group D soils have a very low infiltration rate and high runoff potential.

The soils on the east half of the site are classified Udorthents and NDDH characterized it as "junk fill" so it will be modeled with a hydrologic soil group of C. The soils west of the intermittent watercourse are predominantly Charlton also with a hydrologic soil group C.

C. Proposed Drainage Patterns

For proposed conditions the site was broken up into two drainage catchments that ultimately drain via sheet flow over the embankment and to the intermittent watercourse at the toe of slope. Parking lot runoff was broken out for routing through the bioretention area to decrease the peak runoff. It will be assumed that the rain barrels for the roof runoff will capture 50% of runoff so the roof will be modeled as half the amount of impervious area.

The parking lot bioretention area will help reduce peak flows and promote infiltration and groundwater recharge.

D. Low Impact Development (LID) Features

Several LID features have been incorporated into the design to manage runoff volume and water quality throughout the site. The Town's LID checklist from the new zoning regulations is included as an appendix to this report. LID features and design components for this project include:

- Minimizing curbing
- Promoting sheet flow
- Rainbarrels for roof runoff
- Crushed stone filter trenches
- Bioretention area in parking lot
- Grass and crushed stone swales

E. Methodology

The HydroCAD computer program was utilized for the drainage design of this project. This program models the hydrology and hydraulics of stormwater runoff based largely upon the methods developed by the Soil Conservation Service (now known as the Natural Resources Conservation Service). Required input data includes the size of the contributing drainage area, curve numbers which are based upon land use and soil types, and times of concentration.

Hydrographs with peak flows determined are calculated for each drainage area based upon the SCS synthetic unit hydrograph method. The rainfall distribution used in the program was the SCS Type III storm recommended for Connecticut. Precipitation amounts were obtained from the most recent (November 2018) NOAA Atlas 14, volume 10, version 2, "point precipitation frequency estimates."

F. Results and Comparison of Existing and Proposed Flows

The proposed bioretention area and sheet flow drainage, which mitigates increases in times of concentration for runoff, reduce the peak flow caused by the increase in impervious area. The increase in flow is only about 5%. This small increase should not adversely affect the downstream watershed or drainage system which has a broad flat conveyance cross section.

Peak Flow Comparison

	Existing	Proposed
10 Year Storm	5.9 CFS	6.0 CFS
25 Year Storm	7.5 CFS	7.7 CFS
100 Year Storm	11.0 CFS	11.6 CFS

G. Stormwater Quality

The drainage design for this project ensures that runoff from parking spaces will be pretreated prior to discharge. The primary Best Management Practices for stormwater quality will be filtration and infiltration. Parking lot runoff will first be filtered and infiltrated through the crushed stone filter trenches at the edge of pavement, then will flow down a grass swale. The grass swale will terminate in a bioretention area for additional infiltration and groundwater recharge.

Treating the water quality volume for the parking lot runoff will result in the capture and treatment of the entire runoff volume for 90% of average annual storm events as per the CT Stormwater Quality Manual. The water quality volume for the bioretention area =

$$WQV = [(1") R \times A]/12 = 0.0075 \text{ AC-FT} = 327 \text{ CF}$$

$$\text{Where } R = 0.05 + 0.009(I) = 0.12$$

I = percent impervious area (to bioretention area) = 50%

A = 0.18 acres to bioretention area

The bioretention area can store approximately 400 CF of runoff above the surface so it will treat the recommended WQV.



Existing



Parking lot



Sheet Flow from site



Bioretention



intermittent stream



20258 Audette Day Care

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White Barn Children's Centre

Type III 24-hr CT 10-year Rainfall=4.80"

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Summary for Subcatchment Exist: Existing

Runoff = 5.87 cfs @ 12.23 hrs, Volume= 0.580 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 10-year Rainfall=4.80"

Area (ac)	CN	Description
1.930	73	Woods, Fair, HSG C
1.390	70	Brush, Fair, HSG C
0.084	98	Paved roads w/curbs & sewers, HSG C
3.404	72	Weighted Average
3.320		97.53% Pervious Area
0.084		2.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	200	0.0600	0.21		Sheet Flow, sheetflow Grass: Dense n= 0.240 P2= 3.41"
0.5	96	0.4200	3.24		Shallow Concentrated Flow, shallow conc Woodland Kv= 5.0 fps
16.0	296	Total			

Summary for Subcatchment Parking: Parking lot

Runoff = 0.62 cfs @ 12.12 hrs, Volume= 0.049 af, Depth= 3.28"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 10-year Rainfall=4.80"

Area (ac)	CN	Description
0.090	74	>75% Grass cover, Good, HSG C
0.090	98	Paved parking, HSG C
0.180	86	Weighted Average
0.090		50.00% Pervious Area
0.090		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	85	0.0500	0.17		Sheet Flow, sheetflow Grass: Dense n= 0.240 P2= 3.41"

Summary for Subcatchment sheet: Sheet Flow from site

Runoff = 6.04 cfs @ 12.23 hrs, Volume= 0.592 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 10-year Rainfall=4.80"

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Type III 24-hr CT 10-year Rainfall=4.80"

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Area (ac)	CN	Description
* 0.460	76	
0.680	74	>75% Grass cover, Good, HSG C
0.650	77	Brush, Poor, HSG C
1.430	73	Woods, Fair, HSG C
3.220	74	Weighted Average
3.220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	200	0.0600	0.21		Sheet Flow, Grass: Dense n= 0.240 P2= 3.41"
0.5	96	0.4200	3.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
16.0	296	Total			

Summary for Reach 2R: intermittent stream

Inflow Area = 3.400 ac, 2.65% Impervious, Inflow Depth = 2.09" for CT 10-year event
 Inflow = 6.04 cfs @ 12.23 hrs, Volume= 0.592 af
 Outflow = 6.04 cfs @ 12.23 hrs, Volume= 0.592 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention

Inflow Area = 0.180 ac, 50.00% Impervious, Inflow Depth = 3.28" for CT 10-year event
 Inflow = 0.62 cfs @ 12.12 hrs, Volume= 0.049 af
 Outflow = 0.08 cfs @ 12.76 hrs, Volume= 0.049 af, Atten= 87%, Lag= 38.6 min
 Discarded = 0.08 cfs @ 12.76 hrs, Volume= 0.049 af
 Primary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 190.22' @ 12.76 hrs Surf.Area= 421 sf Storage= 887 cf

Plug-Flow detention time= 136.4 min calculated for 0.049 af (100% of inflow)
 Center-of-Mass det. time= 136.3 min (944.5 - 808.2)

Volume #1	Invert	Avail.Storage	Storage Description		
	187.00'	1,711 cf	Custom Stage Data (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
187.00	180	50.0	0	0	180
190.00	365	70.0	801	801	442
190.50	500	100.0	215	1,017	851
191.00	2,540	204.0	694	1,711	3,368

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Type III 24-hr CT 10-year Rainfall=4.80"

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Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	20.0' long x 16.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Discarded	187.00'	6.000 in/hr Exfiltration over Wetted area

Discarded OutFlow Max=0.08 cfs @ 12.76 hrs HW=190.22' (Free Discharge)

↑**2=Exfiltration (Exfiltration Controls 0.08 cfs)**

Primary OutFlow Max=0.00 cfs @ 1.00 hrs HW=187.00' (Free Discharge)

↑**1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)**

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White Barn Children's Centre

Type III 24-hr CT 100-year Rainfall=6.90"

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Summary for Subcatchment Exist: Existing

Runoff = 10.99 cfs @ 12.22 hrs, Volume= 1.062 af, Depth= 3.74"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 100-year Rainfall=6.90"

Area (ac)	CN	Description
1.930	73	Woods, Fair, HSG C
1.390	70	Brush, Fair, HSG C
0.084	98	Paved roads w/curbs & sewers, HSG C
3.404	72	Weighted Average
3.320		97.53% Pervious Area
0.084		2.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	200	0.0600	0.21		Sheet Flow, sheetflow Grass: Dense n= 0.240 P2= 3.41"
0.5	96	0.4200	3.24		Shallow Concentrated Flow, shallow conc Woodland Kv= 5.0 fps
16.0	296	Total			

Summary for Subcatchment Parking: Parking lot

Runoff = 0.98 cfs @ 12.12 hrs, Volume= 0.079 af, Depth= 5.27"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 100-year Rainfall=6.90"

Area (ac)	CN	Description
0.090	74	>75% Grass cover, Good, HSG C
0.090	98	Paved parking, HSG C
0.180	86	Weighted Average
0.090		50.00% Pervious Area
0.090		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	85	0.0500	0.17		Sheet Flow, sheetflow Grass: Dense n= 0.240 P2= 3.41"

Summary for Subcatchment sheet: Sheet Flow from site

Runoff = 10.99 cfs @ 12.22 hrs, Volume= 1.061 af, Depth= 3.96"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 100-year Rainfall=6.90"

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White Barn Children's Centre
 Type III 24-hr CT 100-year Rainfall=6.90"

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Area (ac)	CN	Description
* 0.460	76	
0.680	74	>75% Grass cover, Good, HSG C
0.650	77	Brush, Poor, HSG C
1.430	73	Woods, Fair, HSG C
3.220	74	Weighted Average
3.220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	200	0.0600	0.21		Sheet Flow, Grass: Dense n= 0.240 P2= 3.41"
0.5	96	0.4200	3.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
16.0	296	Total			

Summary for Reach 2R: intermittent stream

Inflow Area = 3.400 ac, 2.65% Impervious, Inflow Depth = 3.78" for CT 100-year event
 Inflow = 11.56 cfs @ 12.22 hrs, Volume= 1.072 af
 Outflow = 11.56 cfs @ 12.22 hrs, Volume= 1.072 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention

Inflow Area = 0.180 ac, 50.00% Impervious, Inflow Depth = 5.27" for CT 100-year event
 Inflow = 0.98 cfs @ 12.12 hrs, Volume= 0.079 af
 Outflow = 0.69 cfs @ 12.23 hrs, Volume= 0.079 af, Atten= 29%, Lag= 7.1 min
 Discarded = 0.14 cfs @ 12.23 hrs, Volume= 0.068 af
 Primary = 0.55 cfs @ 12.23 hrs, Volume= 0.011 af

Routing by Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 190.55' @ 12.23 hrs Surf.Area= 620 sf Storage= 1,042 cf

Plug-Flow detention time= 116.7 min calculated for 0.079 af (100% of inflow)
 Center-of-Mass det. time= 116.6 min (911.6 - 795.0)

Volume #1	Invert	Avail.Storage	Storage Description		
	187.00'	1,711 cf	Custom Stage Data (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
187.00	180	50.0	0	0	180
190.00	365	70.0	801	801	442
190.50	500	100.0	215	1,017	851
191.00	2,540	204.0	694	1,711	3,368

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White Barn Children's Centre

Type III 24-hr CT 100-year Rainfall=6.90"

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Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	20.0' long x 16.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Discarded	187.00'	6.000 in/hr Exfiltration over Wetted area

Discarded OutFlow Max=0.14 cfs @ 12.23 hrs HW=190.54' (Free Discharge)

↳ **2=Exfiltration** (Exfiltration Controls 0.14 cfs)

Primary OutFlow Max=0.49 cfs @ 12.23 hrs HW=190.54' (Free Discharge)

↳ **1=Broad-Crested Rectangular Weir** (Weir Controls 0.49 cfs @ 0.56 fps)

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White Barn Children's Centre

Type III 24-hr CT 25-year Rainfall=5.50"

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Summary for Subcatchment Exist: Existing

Runoff = 7.51 cfs @ 12.23 hrs, Volume= 0.735 af, Depth= 2.59"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 25-year Rainfall=5.50"

Area (ac)	CN	Description
1.930	73	Woods, Fair, HSG C
1.390	70	Brush, Fair, HSG C
0.084	98	Paved roads w/curbs & sewers, HSG C
3.404	72	Weighted Average
3.320		97.53% Pervious Area
0.084		2.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	200	0.0600	0.21		Sheet Flow, sheetflow Grass: Dense n= 0.240 P2= 3.41"
0.5	96	0.4200	3.24		Shallow Concentrated Flow, shallow conc Woodland Kv= 5.0 fps
16.0	296	Total			

Summary for Subcatchment Parking: Parking lot

Runoff = 0.74 cfs @ 12.12 hrs, Volume= 0.059 af, Depth= 3.94"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 25-year Rainfall=5.50"

Area (ac)	CN	Description
0.090	74	>75% Grass cover, Good, HSG C
0.090	98	Paved parking, HSG C
0.180	86	Weighted Average
0.090		50.00% Pervious Area
0.090		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	85	0.0500	0.17		Sheet Flow, sheetflow Grass: Dense n= 0.240 P2= 3.41"

Summary for Subcatchment sheet: Sheet Flow from site

Runoff = 7.67 cfs @ 12.22 hrs, Volume= 0.743 af, Depth= 2.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
Type III 24-hr CT 25-year Rainfall=5.50"

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White Barn Children's Centre
Type III 24-hr CT 25-year Rainfall=5.50"

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Area (ac)	CN	Description
* 0.460	76	
0.680	74	>75% Grass cover, Good, HSG C
0.650	77	Brush, Poor, HSG C
1.430	73	Woods, Fair, HSG C
3.220	74	Weighted Average
3.220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	200	0.0600	0.21		Sheet Flow, Grass: Dense n= 0.240 P2= 3.41"
0.5	96	0.4200	3.24		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
16.0	296	Total			

Summary for Reach 2R: intermittent stream

Inflow Area = 3.400 ac, 2.65% Impervious, Inflow Depth = 2.63" for CT 25-year event
 Inflow = 7.67 cfs @ 12.22 hrs, Volume= 0.744 af
 Outflow = 7.67 cfs @ 12.22 hrs, Volume= 0.744 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention

Inflow Area = 0.180 ac, 50.00% Impervious, Inflow Depth = 3.94" for CT 25-year event
 Inflow = 0.74 cfs @ 12.12 hrs, Volume= 0.059 af
 Outflow = 0.23 cfs @ 12.51 hrs, Volume= 0.059 af, Atten= 69%, Lag= 23.6 min
 Discarded = 0.12 cfs @ 12.51 hrs, Volume= 0.058 af
 Primary = 0.11 cfs @ 12.51 hrs, Volume= 0.001 af

Routing by Stor-Ind method, Time Span= 1.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 190.51' @ 12.51 hrs Surf.Area= 538 sf Storage= 1,024 cf

Plug-Flow detention time= 132.6 min calculated for 0.059 af (100% of inflow)
 Center-of-Mass det. time= 132.4 min (935.5 - 803.1)

Volume #1	Invert	Avail.Storage	Storage Description			
	187.00'	1,711 cf	Custom Stage Data (Irregular) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
187.00	180	50.0	0	0	180	
190.00	365	70.0	801	801	442	
190.50	500	100.0	215	1,017	851	
191.00	2,540	204.0	694	1,711	3,368	

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White Barn Children's Centre

Type III 24-hr CT 25-year Rainfall=5.50"

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Device	Routing	Invert	Outlet Devices
#1	Primary	190.50'	20.0' long x 16.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Discarded	187.00'	6.000 in/hr Exfiltration over Wetted area

Discarded OutFlow Max=0.12 cfs @ 12.51 hrs HW=190.51' (Free Discharge)

↑2=Exfiltration (Exfiltration Controls 0.12 cfs)

Primary OutFlow Max=0.08 cfs @ 12.51 hrs HW=190.51' (Free Discharge)

↑1=Broad-Crested Rectangular Weir (Weir Controls 0.08 cfs @ 0.30 fps)

Appendix B LID Checklist

TOWN OF THOMPSON

LID CHECKLIST—Required for site plan review

Applicants must complete and submit the following checklist with the application

Date: 1/6/21
 Project: AUDETTE CHILD CARE Verifier: JANET BLANCHETTE, PE
 Name and Profession

Conformance with the following criteria shall be initialed in the spaces provided below by a Connecticut Registered Professional Engineer, Land Surveyor or Certified Soils Scientist as appropriate. If conditions cannot be met, or are not appropriate for the project, comments addressing each item should be provided by the applicant in the space provided.

Item	Description	Verified	Comments
1	Development is designed avoiding critical watercourses, wetlands and steep slopes.	YES	
2	Development has been located to maximize preservation of contiguous natural sensitive areas.	YES	
3	Natural areas, including woodlands, regulated wetland areas and naturally vegetated areas have been preserved and/or replicated to the maximum extent practical.	YES	
4	Onsite soils have been assessed to determine suitability for stormwater infiltration.	YES	HAVE MDDH TP RESULTS

5	Limits of disturbance have been delineated to avoid unnecessary clearing or grading.	YES	
6	<p>Reduce and Disconnect Impervious Cover</p> <p>Impervious surfaces have been kept to the minimum extent practicable, using the following methods:</p> <p>(Check which methods were used.)</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Minimized road widths <input checked="" type="checkbox"/> Minimized driveway area <input checked="" type="checkbox"/> Minimized sidewalk area <input type="checkbox"/> Minimized cul-de-sacs N/A <input type="checkbox"/> Minimized building footprint <input checked="" type="checkbox"/> Minimized parking lot area 	YES	
7	Impervious surfaces have been disconnected from the stormwater system and directed to appropriate pervious areas, where practicable. Pervious areas may be LID practices or uncompacted turf areas.	YES	PARKING SPACES DRAIN TO A BIO-RETENTION AREA & RUNOFF IS PRETREATED IN CRUSHED STONE FILTER STRIPS
8	Sheet flow is used to the maximum extent possible to avoid concentrating runoff.	YES	
9	Vegetated swales have been installed adjacent to driveways and/or roads in lieu of a curb and gutter stormwater collection system.	YES	

10	Rooftop drainage is discharged to bioretention/rain gardens.	NO	
11	Rooftop drainage is discharged to drywell or infiltration trench.	NO	
12	Rain water harvesting methods such as rain barrels or cisterns have been installed to manage roof drainage.	YES	
13	Bioretention basins or rain gardens have been incorporated within yards, median strips, cul-de-sac islands and parking lot islands.	YES	
14	Permeable (porous) pavement has been incorporated into areas of low traffic, parking lots, residential and light commercial use driveways, walkways, bike paths etc.	NO	
15	Stormwater infiltration for impervious areas has been provided by the use of underground storage units, devices, and/or infiltration swales/trenches.	NO	

16	Level spreader/vegetation has been provided at storm drainage outfalls to enhance water quality and mitigate erosion.	YES	CHECK DAM AT TRAIL SWALE ADDED AS PER DISCUSSIONS WITH MARLA
17	On-site retention/detention facilities have been provided to address water quality and stormwater runoff.	YES	BIORETENTION AREA IN PARKING LOT WILL TREAT PARKING LOT RUNOFF
18	Impervious area sizes and percentages for pre and post development have been provided.	YES	EXISTING : IMP. AREA = 0 SF PERCENT = 0% PROPOSED IMP. AREA = 10,100 SF PERCENT = 8.2%

F) Permit Extensions / Changes - None

Agenda Item G.a. Violations & Pending Enforcement Actions

Cease & Restore Order VIOL20003 Scott Josey, 637 East Thompson Road, Assessor's map 154, block 5, lot 14: filling of wetlands and work within 100-foot upland review area, issued 3/5/2020, hearing and decision 3/10/2020 soil scientist report submitted 5/10/2020 approved, and to be work completed by 9/15/2020.

Agenda Item G.b. Violations & Pending Enforcement Actions

VIOL20013, Adrienne Martin and Joseph Fagan, 208 Linehouse Rd, Assessor's map 36, block 70, lot 4, clearcutting of trees and earth moving work in 100-foot upland review area, Notice of Violation issued 5/14/2020 7/14/2020 granted extension to 10/1/2020 for completion of work.

Agenda Item G.c. Violations & Pending Enforcement Actions

VIOL20033, Jennifer Burlingame & Robert Lemieux, Jr., 480 Quaddick Town Farm Rd., Assessor's map 158, block 20, lot 8K, filling / earthmoving within 100-foot upland review area and possibly within delineated wetlands. Notice of Violation issued 8/6/2020 to cease any further earthmoving work and by August 20, 2020 provide an explanation for the earth moving work and the reason why an approval was not sought prior to the initiation of work within 100 feet of delineated wetlands.

Agenda Item H Other Business

- a) FY21-22 Budget Request

Good morning Marla,

It is January 2021 and Budgets for FY2021-2022 are starting!

The following departmental budget info is attached for your review and completion:

1. Excel File for your department(s):

A. Page 1: Narrative info and please make any necessary updates.

B. Page 2 (or more): Worksheet showing historical data and also the following columns for completion:

- Estimate FY21: current fiscal year
- Dept Proposed: your FY2022 budget.

2. DPF report of your FY2021 through 1/6/2021: Please use this in completing your estimates for FY2021. Please also take the time to review the expenses to ensure there are no errors. If you notice anything that needs reviewing, please let Paula know.

Typically payroll increases will be entered at a later date. However should you wish to request other payroll increases outside of the annual union or cost of living increases, please do so.

I'd like your worksheets **EMAILED** back to me by Friday, January 22nd. If there is any reason you are unable to make this deadline (including board or commission meeting dates), please do let me know ASAP.

Thanks for your co-operation.

Orla McKiernan-Raftery

Finance Director

Town of Thompson

815 Riverside Drive

PO Box 899

North Grosvenordale, CT 06255

Phone: 860-923-3593 / Fax 860-923-9897

Email: financedirector@thompsonct.org

www.thompsonct.org



 6203 INLAND WETLANDS COMM.xlsx (17 KB)

 6203 INLANDS FY21.pdf (43 KB)

INLAND WETLANDS COMMISSION

This cost center funds the Wetlands Commission

RATIONALE OF OBJECTS

	# of Hours	Hourly Rate	Current Bi-Weekly	Current Annual	pays Factor	Budget Raise	Proposed Pay		
							Annual	Hourly/Monthly	
<u>Salary & Wages</u>									
510151	Wetlands Officer	15	\$ 24.79	\$743.70	\$19,411	26.1	\$ -	\$ 19,411	\$ 24.79
				Current Monthly					
510152	Wetlands Secretary			\$289.25		12	\$ 3,471	\$ 289.25	
	Wetlands Secretary						\$ 401		
							\$ 3,872		

Salary increased for wetland agent & recording secretary requested to be in line with those of non-union positions, 2% assumed

No change in remaining objects proposed from that approved

Town of Thompson
2021-2022
Budget Expenditures

Fund - 001 - GENERAL BUDGET

Department - 6203 WETLANDS COMMISSION

Obj/Sub	Description	Actual FY 2018/19	Actual 2019/20	Budget 2020/21	Estimate FY21	Dept Proposed	Selectman Proposed	BOF Proposed	FY21 ESTIMATE FY21 BUDGET	
									v PROPOSED \$ Increase (Decrease)	v PROPOSED \$ Increase (Decrease)
510151	WETLANDS OFFICER	18,924	19,327	19,405					0	-19,405
510152	WETLANDS SECRETARY	3,615	3,254	3,872					0	-3,872
*Total for Object		22,539	22,581	23,277	0	0	0	0	0	-23,277
522110	PROFESSIONAL AFFILIATIONS	60	60	60					0	-60
522130	TRAVEL	0	14	14					0	-14
522140	MEETING, FEES, ETC	120	0	0					0	0
522220	PROFESSIONAL SERVICES	0	0	100					0	-100
522310	ADVERTISING	684	603	500					0	-500
522890	EASTERN CT CONSERVATION DIST. DONATION	1,000	1,000	1,000					0	-1,000
*Total for Object		1,864	1,677	1,674	0	0	0	0	0	-1,674
533150	OFFICE SUPPLIES	234	251	300					0	-300
*Total for Object		234	251	300	0	0	0	0	0	-300
*Total for Department		24,637	24,509	25,251	0	0	0	0	0	-25,251

Budget Increase (Decrease)- \$
Budget Increase (Decrease)- %

0
#DIV/0!
-25,251
-100%

Agenda Item H Other Business

b) Permit Conditions to Ensure Compliance

1. Procedures to Minimize Water Encroachments during Shoreline Construction

J & D CIVIL
ENGINEERS, LLC

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

December 10, 2020

Marla Butts, Wetlands Officer
Town of Thompson
815 Riverside Drive, PO Box 899
North Grosvenordale, CT


RE: Procedures to Minimize Water Encroachments
During Shoreline Construction

Dear Mrs. Butts,

As you are aware, there have been several recent instances in Thompson of shoreline construction work which occurred beyond the boundary line and into a water body. Generally, the high-water mark is the accepted boundary line for waterfront properties. Our firm's surveyors regularly estimate this boundary and describe it on our site plans. However, during construction, the contractor may miscalculate this boundary line and perform construction beyond it and encroach into the waterbody.

To prevent or mitigate any damage to our community's water resources, J&D recommends that future projects with shoreline construction have the high-water mark staked out by a licensed land surveyor in advance of any construction. Alternatively, in some situations it may be preferable to stake out a 5-10 foot offset to the high-water mark. Either option will make it very easy for a contractor to identify the property boundary, and also allow for easy enforcement by yourself or a Commissioner. We recommend that the Commission consider adding this "stake out survey of the high-water mark," as a condition of approval, to any future wetlands permits for shoreline construction. J&D can recommend this stake out survey to our clients, but unfortunately, we do not have the authority to require it. Please let me know if you have any questions.

Sincerely,



Daniel Blanchette, P.E.
J&D Civil Engineers, LLC

Received

DEC 14 2020

Thompson Wetlands Office

Agenda Item H Other Business

b) Permit Conditions to Ensure Compliance

2. Bonding Options by IWC

BONDING

INLAND WETLANDS AND WATERCOURSES REGULATIONS FOR THE TOWN OF THOMPSON

Revised to March 10, 2009

SECTION 11(a) DECISION PROCESS AND PERMIT (excerpt Page 25)

- 11.9 If a bond or insurance is required in accordance with Section 12 of these regulations, no permit shall be issued until such bond or insurance is provided.

SECTION 12 BOND AND INSURANCE (page 27)

- 12.1 Upon approval of the application and prior to issuance of a permit, the applicant may, at the discretion of the Agency, be required to file a bond with such surety in such amount and in a form approved by the Agency.
- 12.2 The bond or surety shall be conditioned on compliance with all provisions of these regulations and the terms, conditions, and limitations established in the permit.
- 12.3 The Agency may require the applicant to certify that it has public liability insurance against liability which might result from the proposed operation or use of the wetlands or watercourses covering any and all damage which might occur within two (2) years of completion of such operations, in an amount commensurate with the regulated activity as determined by the Commission.

Agenda Item H Other Business

b) Permit Conditions to Ensure Compliance

3. Bonding by PZC

Thompson Zoning Regulations

revised to September 15, 2020

References to **Bonds**

Page 8

Article 2, Section 8 Enforcement, Subsection B

3. Initiate proceedings to revoke a permit or special permit by issuing a written notice to the permittee by certified mail after the ZEO finds that any one of the following activities or situations related to the special permit has occurred:
 - a. Implementation or use of the approval does not conform to the written application and/or supporting documents upon which the approval is based.
 - b. Conditions and requirements of the Commission that were included with the approval have not been met.
 - c. **Bond** requirements have not been met or maintained.
 - d. Activities taking place under a special permit do not comply with these regulations.

Page 18

Article 3B. Zoning Permits, Section 1 Rendering the Decision

- D. The Commission may, as a condition of approval of any special permit application, require a **bond** in an amount and with conditions satisfactory to it, thus securing that any requirements of such application are met or that required amenities (e.g., erosion and sediment control, landscaping, etc.) are completed.

Page 21

Article 3C, Section 6 Conditions for Special Permits

- A. The Commission may place, on a special permit, conditions it may reasonably deem necessary to assure that any proposed building, structure or use (i) will conform to the standards and limitations set forth in these regulations; (ii) will protect the rights of individuals and the health, safety and welfare of local residents and the community; and (iii) will protect local property values. The conditions may relate to, without limitation, the spatial design and layout of buildings, structures and uses; provisions for exterior lighting, parking, loading, surface and subsurface drainage, sanitary facilities, waste disposal, vehicle and pedestrian circulation, landscaping, screening, and protection of the environment and of natural and historic resources; construction or other development schedules; and hours of operation of the proposed building, structure or use. The Commission may also condition the issuance of any special permit on the posting of a **bond** or other security in an amount and with surety satisfactory to the Commission to secure the performance of all conditions and the completion of all improvements to be conveyed to the town that are required under such a special permit.

Page 61

Article 5A, Section 3 Earth and Gravel Removal, c. Standards for Earth Removal

12. A special permit for earth removal shall not become effective until the applicant posts a **bond** with the Commission. The applicant shall provide a **bond** estimate for the projected cost of reclamation of the site for review by the Commission. The Commission may seek the opinion of the Director of Public Works or that of an engineer employed by the Town or by NECCOG in considering the adequacy of the proposed **bond**. **Cash bonds** or **surety bonds** are the types of **bond** acceptable by the Commission. Such **bond** shall ensure restoration of the earth removal operation in accordance with the requirements of the approved special permit. Such **bond** shall permit the Town to finish any incomplete or required restoration covered by said **bond**, if the special permit expires or is revoked for failure to comply with the requirements of the special permit. Such **bond** shall not be released by the Commission until it has received a final plan and a report by the engineer of record stating that all conditions of the special permit covered by the **bond** have been fulfilled and that the required permanent vegetative cover is growing and in a healthy condition.

Such a report shall be reviewed by the ZEO for compliance with gravel operation closure, prior to submission to the Commission.

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Article 5A, Section 3 Earth and Gravel Removal, F. Reclamation

3. Prior to final reclamation, an as-built plan shall be approved by the Commission and filed in the records of the Town Clerk. The posted **bond** shall be released following the approval of the Commission and the filing of the plan.

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Article 5A, Section 5 Solar Photovoltaic (PV) Array Systems

3. Bonding

- a. The Commission may require a **bond** estimate as part of the submission for any site improvements that will be conveyed to or controlled by the Town; and/or the implementation of any erosion and sediment controls required during construction activities. If a bond is required, the applicant shall submit said **bond**, calculated per CGS 8- 3(g), in a form satisfactory to the applicant's attorney and acceptable to the Commission. Such **bond** shall not be released by the Commission until written certification has been received from the ZEO that all of the requirements of these regulations have been fully satisfied.
- b. Proponents seeking to construct and operate a large-scale ground-mounted solar PV system shall provide, prior to construction, surety in form and amount satisfactory to the Commission, which may be an escrow account, **bond** or otherwise, to cover the cost of removal in the event the Town must remove the solar array and remediate the landscape. Such surety shall not be required for municipal- or state-owned facilities. The project proponent shall submit a fully inclusive estimate of the costs associated with removal, prepared by a qualified engineer. The amount shall include a mechanism for calculating increased removal costs due to inflation.

Page 75

Article 5A, Section 6 Wireless Communications, G. Abandonment

A wireless telecommunication facility not in use for 12 consecutive months shall be removed by the facility owner at their expense. This removal shall occur within 90 days of the end of such 12-month period. The commission may require a **bond** satisfactory to the Town to guarantee removal. If there are two or more users of a single tower, this provision shall not become effective until all users cease utilizing the tower.

Page 83

Article 5B, Section 3 Erosion and Sediment Control, D. Compliance

All erosion and sediment control measures indicated on the certified E&S Plan shall be installed and maintained as scheduled. A cash **bond** or surety **bond** to guarantee completion of the control measures may be required, in an amount to be determined by the Commission in consultation with the ZEO and/or Wetlands Agent, as appropriate. If, in the opinion of the ZEO, the control measures have not been installed or maintained in conformance with the certified plan, the property owner will be so notified by certified US Mail. If the problem, as described in that notification, is not addressed within 24 hours of delivery, the ZEO may take steps to correct the problem using funds from any posted **bond**.

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Article Seven Definitions

Bond—A deposit of a specified amount as determined by the Commission, generally required as security against proper completion of certain special permit activities. Cash **bonds** and surety **bonds** are acceptable by the Commission.

Agenda Item H Other Business

- c) Status of Revisions to Plan of Conservation & Development

Agenda Item I Reports

1 Budget & Expenditures

2 Wetlands Agent Report

Agenda Item J, Correspondence - None

Agenda Item K, Signing of Mylars - None

Agenda Item L Comments by Commissioners

Agenda Item M
Adjournment