



TOWN OF PUTNAM

TOWN HALL
200 SCHOOL STREET
PUTNAM, CONNECTICUT 062

Inland Wetland Commission Meeting Hybrid Meeting
July 10, 2024 7:00 P.M.
Municipal Complex Room 201 Second Floor

Agenda:

1. Call to Order & Roll Call:
2. Seating of alternate:
3. Review minutes of the March 13, 2024 meeting. VOTE REQUIRED
4. Correspondence:
5. Public Participation:
6. Unfinished Business:
7. New Business:
8. Other Business: VOTE REQUIRED
 - A. Accepting of new applications for August 14, 2024 meeting.
Alex T. Carpenter and Yoko Takemura
626 Providence Pike, Putnam, CT
Proposed Residential Construction
 - B. Discussion on activity, Violation, and potential action.
Connecticut Preservation Trust
465 School Street
Putnam, CT
9. Agent Updates: POSSIBLE VOTE REQUIRED
10. Comments by Commissioners
11. Adjournment.

Topic: Wetland's Zoom Meeting

Time: Jul 10, 2024 07:00 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us06web.zoom.us/j/88058398835?pwd=9Wth3YYrVNrrLxe9Ug8xNzzfyKaMDZ.1>

Meeting ID: 880 5839 8835

Passcode: 5X4iWA

By Phone

• +1 929 205 6099 US (New York)

Meeting ID: 880 5839 8835

Passcode: 360810

Find your local number: <https://us06web.zoom.us/u/keaKK9uNVc>



TOWN OF PUTNAM

TOWN HALL
200 SCHOOL STREET
PUTNAM, CONNECTICUT 06260

Inland Wetland Commission Minutes
Hybrid Meeting
March 13, 2024 7:00 P.M.
Municipal Complex Room 201 Second Floor

Agenda:

Present: Adam Paquin-Chairman, Walter Irwin, Mike Bogdanski, Cynthia Dunne, Theodore Altmeier

Review minutes of the February 14, 2024 meeting.

Motion by Cynthia Dunne to approve the minutes, second by Mike Bogdanski. ALL WERE IN FAVOR

Correspondence: None

Public Participation: None

Unfinished Business: None

New Business:

Strategic Commercial Realty, Inc. Renewal/Extension of Existing Permit QRTP Phase 2 Proposed 15 Lot Re-subdivision.

Madilyn Smith of Rawson Materials reviewed the plans with the Commission.

Motion by Mike Bogdanski to grant the renewal, second by Walter Irwin. ALL WERE IN FAVOR.

Other Business:

Review/Discussion on By-Laws

Cynthia Dunne stated she would present her suggestions at another meeting.

Motion by Adam Paquin to change the address under Section 3, 3-1 of the By-Laws from the old address of 126 Church Street to 200 School Street, second by Mike Bogdanski. ALL WERE IN FAVOR

Moton by Mike Bogdanski to continue the discussion at the next meeting, second Walter Irwin. ALL WERE IN FAVOR.

Agent Updates:

Bruce Fitzback informed the Commission that he had received word from J & D Civil Engineering that they would no longer be representing Seth Phongsa regarding his violations on School Street.

Bruce Fitzback stated he would be calling the Town Attorney regarding a "Cease & Desist Order."

The recreational jeep track is back up and running in West Putnam. Advertisements are being placed.

To date the wetland violation has not been addressed. Bruce Fitzback will be in contact with the property owner(s) regarding the matter.

Comments by Commissioners: None

Motion by Mike Bogdanski to adjourn at 7:12 P.M., second by Walter Irwin. ALL WERE IN FAVOR.

Respectfully submitted by Brenda Roy.

Please note these minutes have not been accepted by the Commission and will be placed on their next meeting agenda.



INLAND WETLAND COMMISSION

ORIGINAL

APPENDIX A

APPLICATION FOR PERMIT

This application is for the use of inland wetlands and water courses.

The meetings are held on the second Wednesday of every month at 7:00pm in the Town Hall. If an on-site inspection is canceled due to inclement weather, the applicant is asked to call the office at 963-6803 30 minutes before the scheduled inspection to see if or when the inspection will be held.

Name of Applicant Alex T. Carpenter and Yoko Takemura *Alex Carpenter* *Yoko Takemura*
Applicant's Address 626 Providence Pike, Putnam, CT 06260
Phone # 203-997-7536
Owner of Land Alex T. Carpenter and Yoko Takemura
Owner's Address 626 Providence Pike, Putnam, CT 06260
Location and description of proposed activity: The proposal consists of the construction of a new 2-BR house and subsurface sewage disposal system in an upland review area. The property is agricultural, the house site was selected to preserve the fields. Clearing required for this project is +/-0.35 acres. The area was cleared in +/-2007 based on aerial photography and has re-vegetated with buckthorn.

Activity & Purpose Code

The property is located between Five Mile River and Mary Brown Brook.

Please **CHECK** one in each column that best describes the activity proposed.

<u>Code</u>	<u>Activity Type</u>	<u>Code</u>	<u>Activity Purpose</u>
☐ 1	Filling	☒ A	Residential Improvement by homeowner
☐ 2	Excavation	☐ B	New residential development - single family
☐ 3	Land Clearing	☐ C	New residential development - multi- family/condo
☐ 4	Stream Channel	☐ D	Commercial/Industrial Uses
☐ 5	Stream Stabilization	☐ E	Municipal Improvements
☐ 6	Stream Clearance	☐ F	Utility Company Improvements
☐ 7	Culverting	☐ G	Agriculture, Forestry or Conservation
☐ 8	Und. Grd. Util.	☐ H	Wetland Creation/Restoration
☐ 9	Roadway Construction	☐ I	Storm Water/Flood Control
☐ 10	Drainage Improvements	☐ J	Erosion/Sediment Control
☐ 11	Pond Dredge/Dam Construction	☐ K	Recreation/Boating/Navigation
☒ 12	Activity Buffer/Set Back Area	☐ L	Routine Maintenance
☐ 13	Other: Please describe: _____		

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Project Name (if applicable) 626 Providence Pike, Putnam, CT 06260

Estimate of Linear Footage affecting Wetlands No direct disturbance of wetland areas

Affected number of acres in which Wetlands are part of the impacted area for Multi-Family, Condos and Commercial Development Single-family residence, approximately 11.5 acres of the 21.2 acre property is inland wetland.

TO BE COMPLETED BY THE COMMISSION

Application Number _____ Date of Receipt 6-26-2024 ck#

Application Approved (date) _____ 72028

Conditions of approval if applicable _____

Application Denied (date) _____

Reason(s) for Denial _____

Signature of Chairman or Secretary of Commission

Date

INLAND WETLAND COMMISSION

APPENDIX A *Continued*

Application Procedure

1. Applicant will have a map showing the property boundaries, any wetlands on the property, proposed buildings, septic area, drainage if applicable and the dimension between these areas in scale 1" - 200' or less
2. Applicant must provide an approximate estimate of the linear footage of the wetlands that are affected by said proposal. This is for multi-family, condominiums or commercial development. Contact with the Zoning Official may clarify the nature of your project
3. Applicant must provide an approximate estimate of the number of acres that are affected by said proposal dealing with multi-family, condominiums and commercial development in which wetlands are part of that impacted area within the watershed.
4. Applicant will supply a copy of the soil scientist report with the application to the Wetlands Commission to be reviewed at the meeting by the Commission.
5. Applicant will have the soil scientist number the wetland flags and record the numbers of the flags on the site plan according to their location in the field. The location on the site map must match the field location.
6. If the applicant's estimates are not accurate, payment of the correct amount must be made before the Wetlands final approval of the application.
7. And any other information deemed necessary by the Commission.

Fee Schedule

1.	Permitted and non-regulated	\$40.00
2.	One lot regulated	\$40.00
3.	Regulated Area	
	Two (2) - Ten (10) lots	\$100.00
	Ten (10) - Twenty (20) lots	\$200.00
	Over Twenty (20+) lots	\$300.00
4.	Multi-Family/Condominium Regulated area	
	Zero (0) to Five (5) Acres	\$50.00
	Per linear foot of wetlands additional	\$0.35
	Over Five (5) acres	\$100.00
	Per linear foot of wetlands additional	\$0.35
5.	Commercial	
	Zero (0) to Five (5) Acres	\$100.00
	Per linear foot of wetlands additional	\$0.50
	Over Five (5) acres	\$300.00
	Per linear foot of wetlands additional	\$0.50

All applications must be submitted one week prior to the regularly scheduled monthly meeting.



Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:

DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106

Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions - one code only): _____
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
(print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Putnam
does this project cross municipal boundaries (check one)? yes ☐ no ☒
if yes, list the other town(s) in which the activity is occurring (print name(s)): _____
6. LOCATION (see instructions for information): USGS quad name: Thompson or number: 29
subregional drainage basin number: 3402
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Alex T. Carpenter & Yoko Takemura
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 626 Providence Pike, Putnam, CT
briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description: Construction of a single family house in the upland review area
9. ACTIVITY PURPOSE CODE (see instructions - one code only): A
10. ACTIVITY TYPE CODE(S) (see instructions for codes): 1, 2, 12, 14
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
wetlands: 0 acres open water body: 0 acres stream: 0 linear feet
12. UPLAND AREA ALTERED (must provide acres): 0.35 acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

DATE RECEIVED:

PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO

Abutting Properties
626 Providence Pike (Map 29 Lot 28)

Owner Name	Property Address	Mailing Address	Owner City	Owner State	Owner Zip
Heidi L. Andersen	592 Providence Pike (Map 29 Lot 65)	592 PROVIDENCE PIKE	PUTNAM	CT	06260
Rocky S. & Ann G. Bragg	662 Providence Pike (Map 29 Lot 33)	26 GREY FOX LANDING	WOODSTOCK	CT	06281
Matthew C. Harney and Rebecca F. Cunningham	618 Providence Pike (Map 28 Lot 80)	618 PROVIDENCE PIKE	PUTNAM	CT	06260
Elizabeth G. Hayden	310 East Putnam Road (Map 29 Lot 29)	290 BROOKFIELD RD	FISKDALE	MA	01518
Frederic S. & Tara M. Hutchins	640 Providence Pike (Map 29 Lot 34)	640 PROVIDENCE PIKE	PUTNAM	CT	06260
Richard A. & Marianne Loomis	318 East Putnam Road (Map 29 Lot 23)	318 EAST PUTNAM RD	PUTNAM	CT	06260
Kathryn E. & Dennis F. McLaren	604 Providence Pike (Map 28 Lot 72)	604 PROVIDENCE PIKE	PUTNAM	CT	06260
Kelly A. Stockwell	635 Providence Pike (Map 28 Lot 90)	635 PROVIDENCE PIKE	PUTNAM	CT	06260
Tritec Americas LLC	645 Providence Pike (Map 34 Lot 1)	888 PROSPECT ST	LA JOLLA	CA	92037



JOSEPH R. THEROUX

~ CERTIFIED FORESTER/ SOIL SCIENTIST ~
PHONE 860-428-7992 ~ FAX 860-376-6842
426 SHETUCKET TURNPIKE, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ ENVIRONMENTAL IMPACT ASSESSMENTS
WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION AND VALUE ASSESSMENTS

4/18/2024

MR. JACOB S. FAULISE, E.I.T
BOUNDARIES LLC
179 PACHAUG RIVER DRIVE
P.O. Box 184
GRISWOLD, CT. 06351

RE: WETLAND DELINEATION 626 PROVIDENCE PIKE, PUTNAM, CT.

DEAR MR. FAULISE,

AT YOUR REQUEST I HAVE DELINEATED THE INLAND WETLANDS AND WATERCOURSES ON THE ABOVE REFERENCED PROPERTY IN THE GENERAL AREA OF THE PROPOSED RESIDENCE.

THESE WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY AND THE DEFINITIONS OF WETLANDS AS FOUND IN THE CONNECTICUT STATUTES, CHAPTER 440, SECTIONS 22A-38.

FLUORESCENT PINK FLAGS WITH A CORRESPONDING LOCATION NUMBER DELINEATE THE BOUNDARY BETWEEN THE UPLAND SOILS AND THE INLAND WETLANDS AND WATERCOURSES THAT WERE FOUND.

FLAG NUMBERS WF-1 THROUGH WF-47 DELINEATE THE BOUNDARY OF AN INUNDATED PALUSTRINE FORESTED WETLAND THAT LIES ADJACENT TO THE PROPOSED LOCATION OF THE RESIDENCE.

FLAG NUMBERS WF-1 A THROUGH WF-5A, DELINEATE THE NORTHERN BOUNDARY OF A SMALL PALUSTRINE FORESTED WETLAND FOUND THAT EXTENDS TO THE SOUTH.

A SMALL EXCAVATED POND WAS ALSO DELINEATED IN THE CENTRAL PORTION OF THE UPLAND AREA

THESE WETLAND SOILS HAVE FORMED FROM THE PROLONGED WETNESS FROM THE HIGH SEASONAL/PERCHED WATER TABLES AND GROUND WATER BREAKOUT. THEY ARE CHARACTERIZED BY ORGANIC TOPSOIL HORIZONS, SHALLOW

REDOXIMORPHIC FEATURES AND LOW CHROMA COLORS WITHIN 20 INCHES OF THE SOIL SURFACE.

IN CONCLUSION, IF YOU HAVE ANY QUESTIONS CONCERNING THE DELINEATION OR THIS REPORT, PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

Joseph R. Theroux

JOSEPH R. THEROUX
CERTIFIED SOIL SCIENTIST
MEMBER SSSSNE, NSCSS, SSSA.

BOUNDARIES LLC
Land Surveying & Civil Engineering
860-376-2006
P.O. BOX 184
GRISWOLD, CT 06351

Jewett City Savings Bank
111 Main Street
Jewett City, CT 06351
51-7433/2111

72028

6-24-24

PAY TO THE
ORDER OF

Town of Putnam

\$ 100.00

One hundred and ⁰⁰/₁₀₀

DOLLARS

PROTECTED AGAINST FRAUD



626 Providence Pike IWWC
Alex Carpenter and Yoko Takemura

[Signature]



BOUNDARIES LLC Land Surveying & Civil Engineering

72028

Details on Back
Intuit® CheckLock™ Secure Check

DEEP TEST PIT RESULTS

DEEP TEST PITS 1 THROUGH 3 WERE OBSERVED ON MAY 21, 2024 BY MAUREEN MARODUX, R.S. OF THE NORTHEAST DISTRICT DEPARTMENT OF HEALTH AND DAVID C. MCKAY, P.E. OF BOUNDARIES LLC.

TP #1
0-5" ORGANICS, TOPSOIL, ROOTS
5-35" LOAMY VERY FINE SAND, SOME ROOTS
35-68" COARSE SANDS AND GRAVEL, WET
68-104" GREY MOTTLED SANDS WITH FINES
MOTTLES AT 88", GROUNDWATER AT 104", NO LEDGE, ROOTS TO 35", RESTRICTIVE AT 35"

TP #2
0-10" ORGANICS, TOPSOIL, ROOTS
10-39" YELLOW BROWN LOAMY VERY FINE SAND
39-52" GRAYISH WHITE LOAMY SILTY VERY FINE SAND
52-58" WET WASHED COARSE SAND AND PEBBLES
58-84" WET MEDIUM TO COARSE SAND
MOTTLES AT 39", GROUNDWATER AT 80", NO LEDGE, ROOTS TO 36", RESTRICTIVE AT 39"

TP #3
0-8" ORGANICS, TOPSOIL, ROOTS
8-35" YELLOW BROWN LOAMY VERY FINE SAND, SOME ROOTS
35-51" WET LOAMY SAND
51-77" TIGHT WET COARSE SAND AND GRAVEL
MOTTLES AT 35", GROUNDWATER AT 74", SEEPAGE AT 62", NO LEDGE, ROOTS TO 35", RESTRICTIVE AT 35"

SANITARY DESIGN CRITERIA

PROPOSED 2-BEDROOM HOUSE W/ BONUS ROOM
(SYSTEM SIZED FOR 3-BEDROOMS)
DESIGN PERCOLATION RATE = <10.1 MINUTES/INCH
LEACHING AREA REQUIRED = 495 SF EFFECTIVE
DESIGN: 1,000 GALLON (MIN) SEPTIC TANK AND 1 ROW OF 45' OF ELJEN MANTIS 536-B LEACHING MEDIA
AREA PROVIDED = 495 SF EFFECTIVE (45 LF X 11.0 SF/LF)
100% RESERVE AREA PROVIDED (1 ROW OF 45' OF ELJEN MANTIS 536-B LEACHING MEDIA)

MINIMUM LEACHING SYSTEM SPREAD (MLSS) CALCULATION (CATEGORY 1)
HYDRAULIC GRADIENT = 4.0%
RECEIVING SOIL DEPTH = 35"
HYDRAULIC FACTOR = 30
FLOW FACTOR FOR 3 BEDROOMS = 1.5
PERCOLATION FACTOR FOR UP TO 10.0 MINUTES/INCH = 1.0
MLSS REQUIRED = 45"
MLSS PROVIDED = 45"

ZONING TABLE: AG-2

ITEM	REQUIRED	PROVIDED
LOT AREA	87,120 SF	923,400± SF
FRONTAGE	250 FT	240± FT*
FRONT YARD	50 FT	580± FT
SIDE YARD	20 FT	290± FT
REAR YARD	40 FT	362± FT
MAX. BUILDING COVERAGE	10%	0.9%
BUILDING HEIGHT	<35 FT	<35 FT
WATER SUPPLY		PRIVATE WELL
SANITARY		SSDS
AREA OF DISTURBANCE	0.35± ACRES	
LOT COVERAGE	3.6%	

*NON-CONFORMING LOT OF RECORD
**SEE SHEET 3 FOR PROPERTY LINE AND SETBACK LOCATIONS

LEGEND & ABBREVIATIONS

±	MORE OR LESS
BR	BEDROOM
SCHED	SCHEDULE
ELEV	ELEVATION
S	SLOPE
TYP	TYPICAL
PVC	POLYVINYL CHLORIDE
SF	SQUARE FEET
FF	FINISHED FLOOR
INV	INVERT
HHC	COMMUNICATIONS HAND HOLE
W/	WITH
WF #1	WETLAND FLAG
CONC	CONCRETE
MON	MONUMENT
REC	RECOVERED
N/F	NOW OR FORMERLY
AG	ABOVE GRADE
BC	BELOW GRADE
x 380.0	EXISTING SPOT ELEVATION
x 380.0	PROPOSED SPOT ELEVATION
— 380 —	EXISTING CONTOUR
— 380 —	PROPOSED CONTOUR
—	TREE LINE
—	PROPOSED TREE LINE
— E/T/C —	UNDERGROUND UTILITIES
— E/W —	WATER AND ELECTRIC
⊞	DEEP TEST PIT
⊕	PERCOLATION TEST HOLE
⊙	WELL
△	WETLAND FLAG

PERCOLATION TEST RESULTS

PERCOLATION TESTS 1 AND 2 WERE PERFORMED ON MAY 21, 2024 BY BOUNDARIES LLC.

P-1
PRESOAK @ 9:19, DRY @ 9:50
DEPTH = 24"

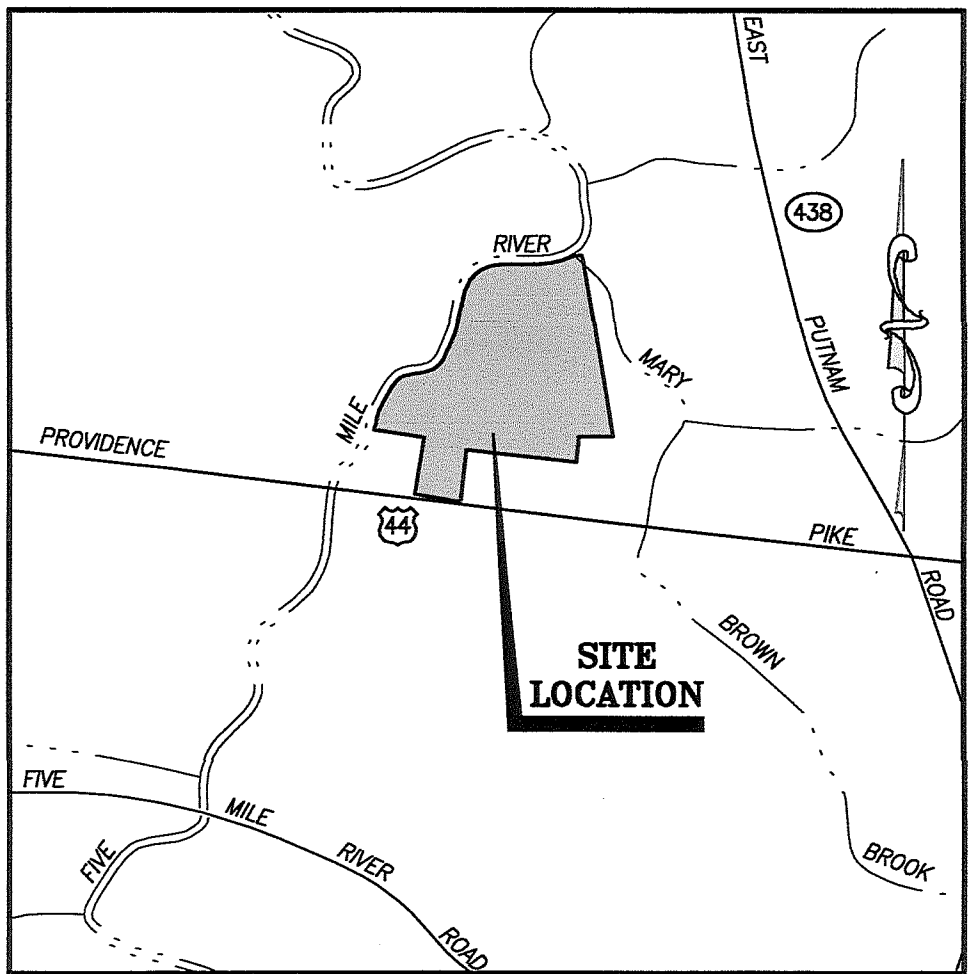
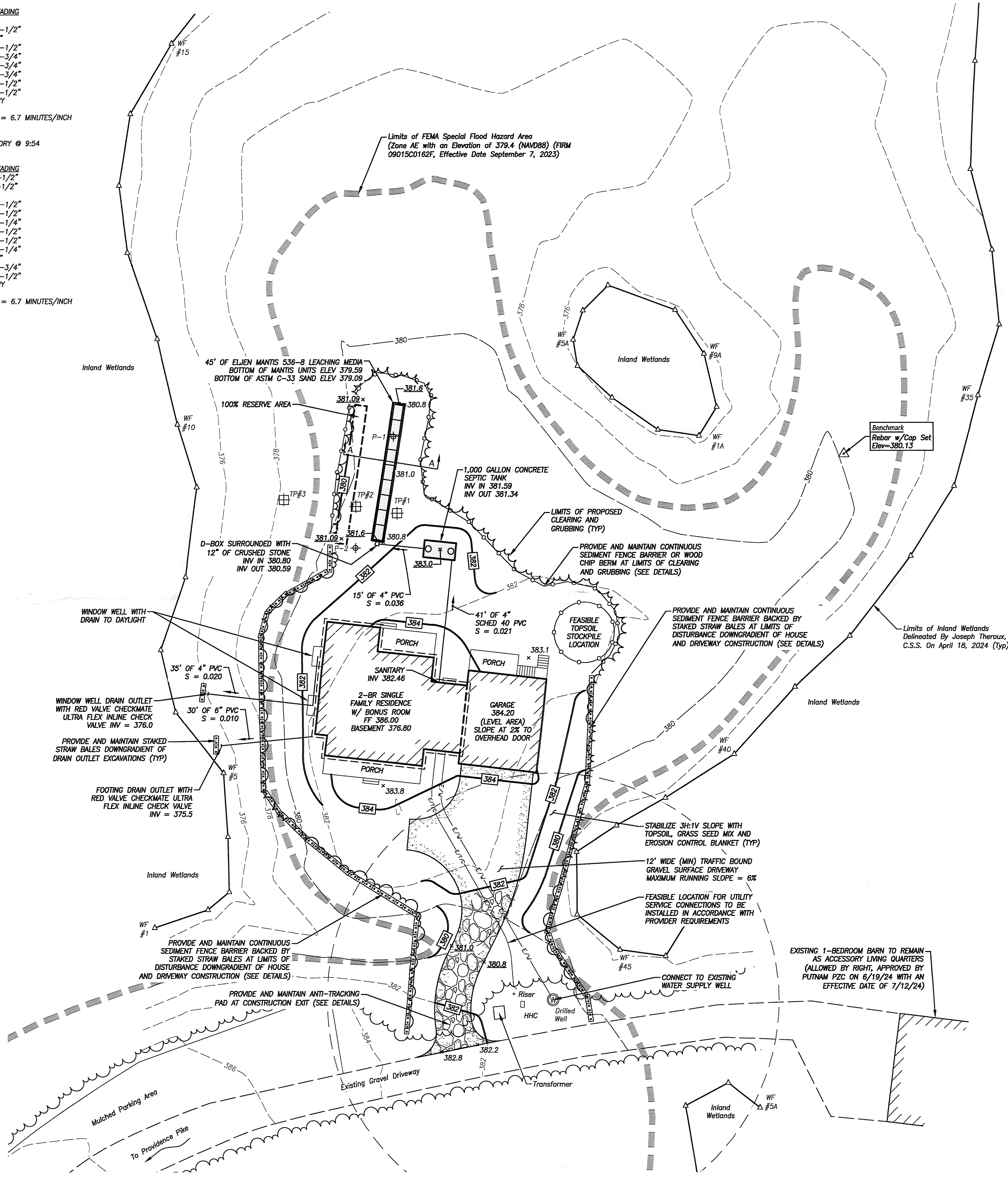
TIME	READING
10:31	8"
10:36	10-1/2"
10:41	13"
10:46	14-1/2"
10:51	15-3/4"
10:56	16-3/4"
11:01	17-3/4"
11:06	18-1/2"
11:11	19-1/2"
11:16	DRY

PERCOLATION RATE = 6.7 MINUTES/INCH

P-2
PRESOAK @ 9:17, DRY @ 9:54
DEPTH = 24"

TIME	READING
10:33	5-1/2"
10:36	7-1/2"
10:43	9"
10:48	10-1/2"
10:53	11-1/2"
10:58	12-1/4"
11:03	13-1/2"
11:08	14-1/2"
11:13	15-1/4"
11:18	16"
11:23	16-3/4"
11:28	17-1/2"
11:33	DRY

PERCOLATION RATE = 6.7 MINUTES/INCH



LOCATION MAP

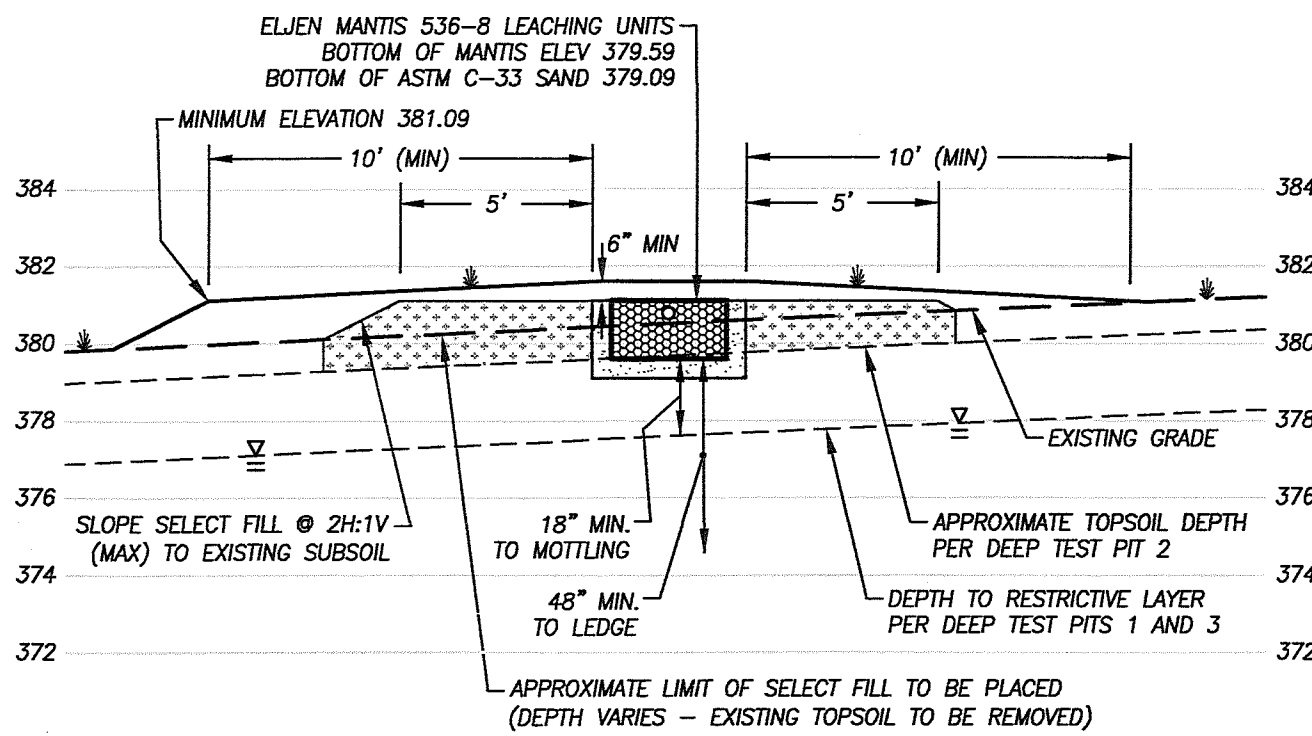
SCALE: 1"=1000'

SURVEY 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 AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019. IT IS A TOPOGRAPHIC SURVEY BASED ON RESURVEY AND CONFORMS TO HORIZONTAL CLASS A-2 AND TOPOGRAPHIC CLASS T-2 ACCURACY STANDARDS. IT IS INTENDED TO BE USED FOR SITE DEVELOPMENT AND MUNICIPAL PERMITTING.
- NORTH ORIENTATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN DATUM 1983 (NAD83) BASED UPON GLOBAL POSITIONING SYSTEM OBSERVATIONS, OBSERVED ON MAY 15, 2024.
- VERTICAL DATUM DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) BASED UPON GLOBAL POSITIONING SYSTEM OBSERVATIONS USING GEODETIC18 ON MAY 15, 2024.
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON THE LOCATION OF ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED BY OTHERS. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. ALL SUBTERANEAN FEATURES AND IMPROVEMENTS MAY NOT BE DEPICTED OR NOTED HEREON. THE LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. CONTACT "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OPERATIONS.
- THE FIELD SURVEY WAS COMPLETED ON MAY 15, 2024. LAND RECORD AND RELATED RESEARCH WAS COMPLETED ON APRIL 8, 2024.
- RECORD TITLE TO THE SUBJECT PROPERTY MAY BE REFERENCED TO A WARRANTY DEED FROM JERRY A. SOCHOR, CATHY L. EDWARDS, JUDY A. ROBEY, DONNA J. HAY & FRANCES M. MURPHY TO ALEX T. CARPENTER & YOKO TAKEMURA RECORDED JUNE 2, 2016 IN THE TOWN OF PUTNAM LAND RECORDS VOLUME 780, PAGE 288.

REFERENCE MAP

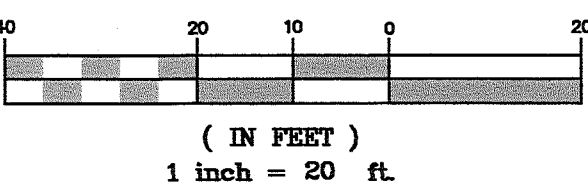
- IMPROVEMENT LOCATION SURVEY, SEPTIC SYSTEM DESIGN PLAN, PREPARED FOR ALEX T. CARPENTER & YOKO TAKEMURA, ROUTE 44 PROVIDENCE PIKE, PUTNAM, SCALE: 1"=30'. DATED: JANUARY 2017, PREPARED BY PC SURVEY ASSOCIATES, AND KILLINGLY ENGINEERING ASSOCIATES.



LEACHING SYSTEM CROSS SECTION A-A

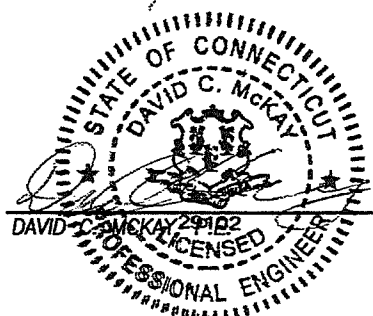
SCALE: 1"=5' (HORIZONTAL & VERTICAL)

GRAPHIC SCALE



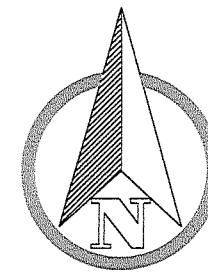
"TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON."

JOHN U. FAULISE JR., L.S. LICENSE NO. 70016 DATE 6/24/24



29102 6/24/24
LICENSE NO. DATE

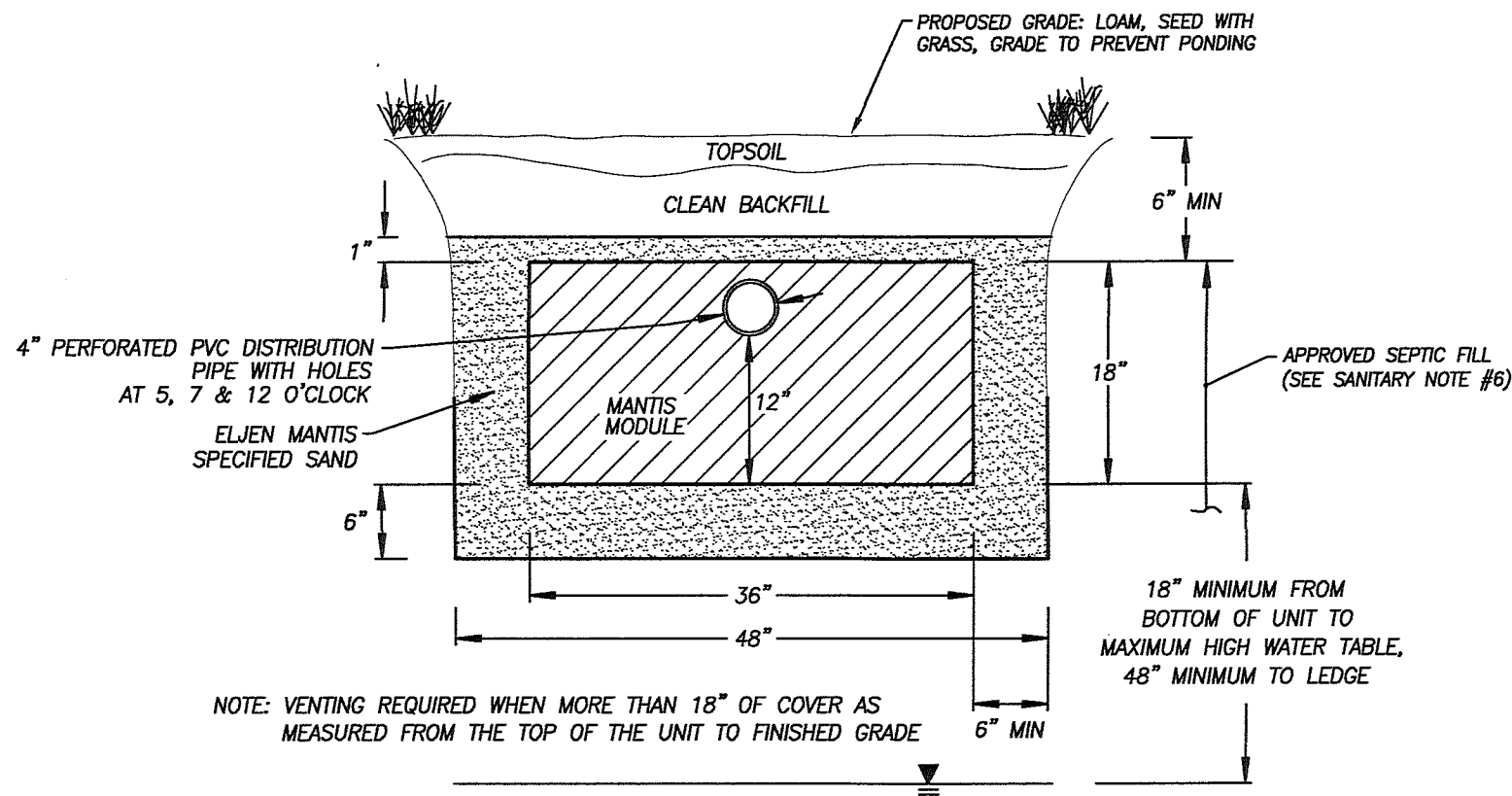
Topographic Survey
"Residential Site Development Plan"
Prepared for
Alex T. Carpenter & Yoko Takemura
626 Providence Pike - Putnam, Connecticut



SCALE: 1" = 20'
DATE: June 2024
JOB I.D. NO. 24-3423
Revisions

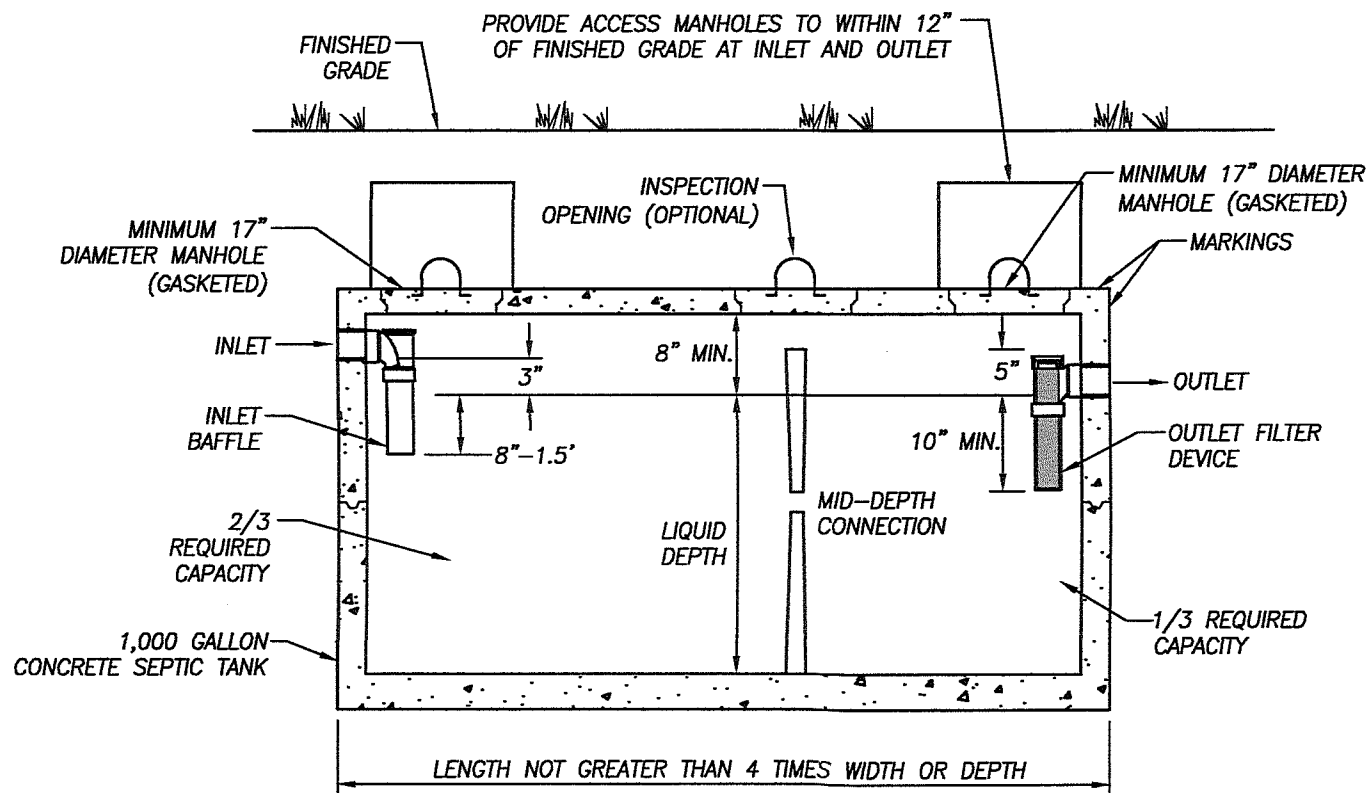
SHEET NO.

1
3



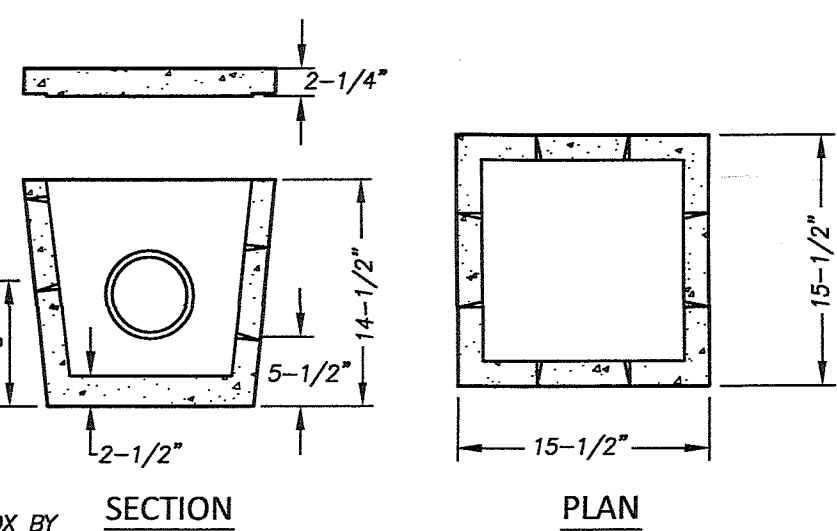
MANTIS 536-8: CROSS SECTION

NOT TO SCALE



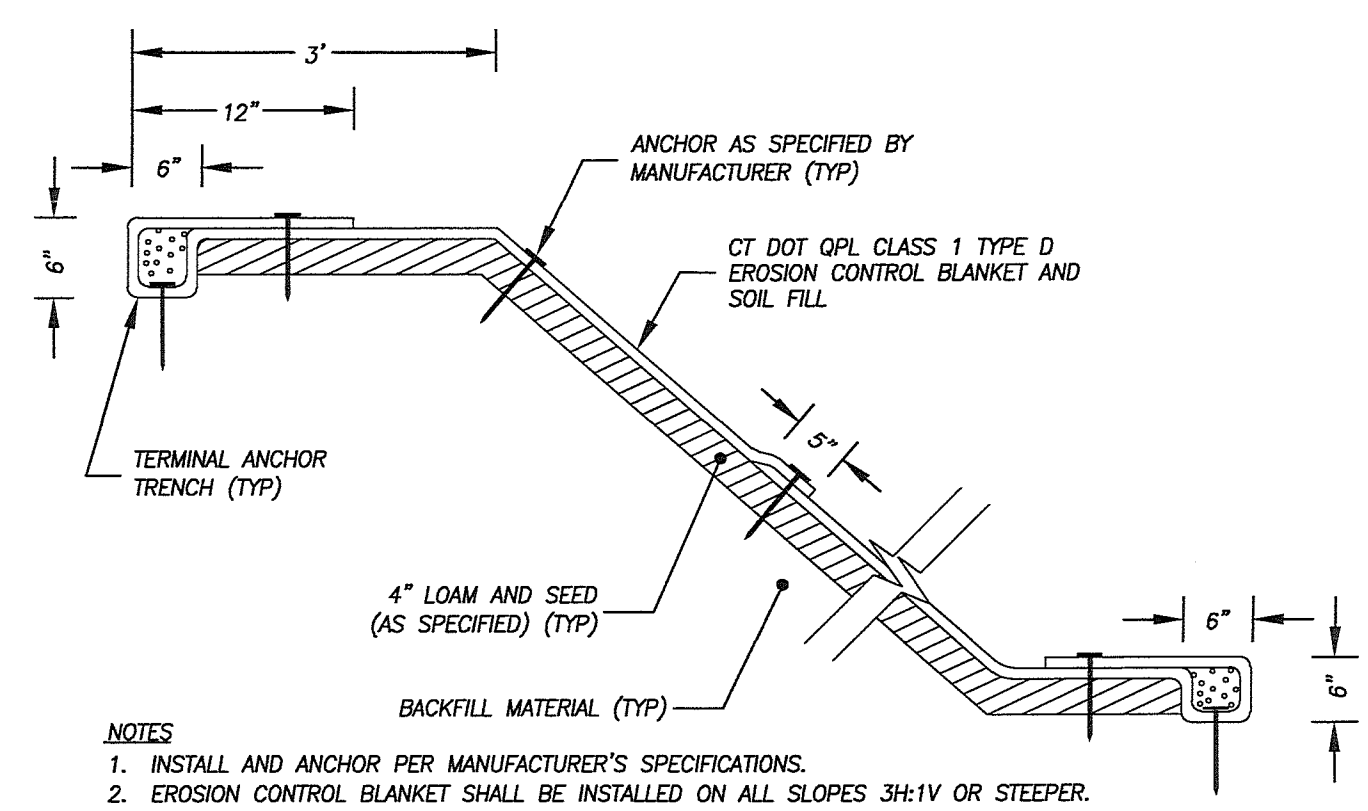
CONCRETE SEPTIC TANK DETAIL

NOT TO SCALE



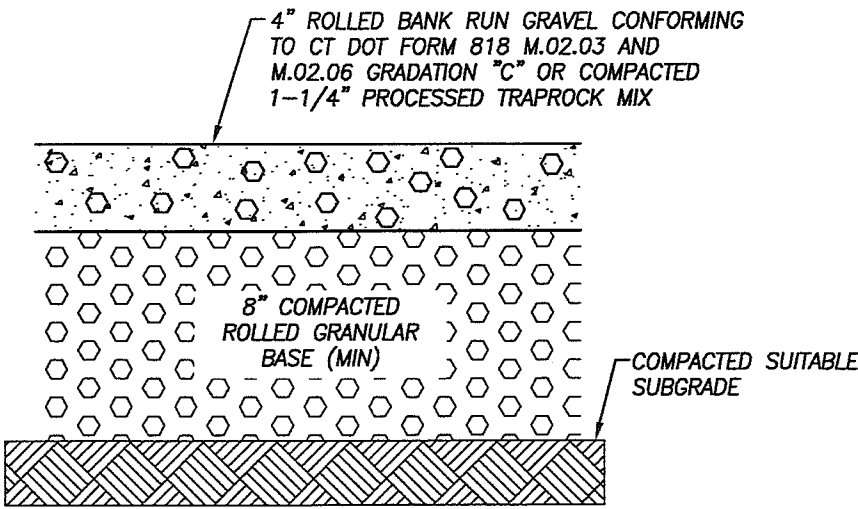
D-BOX DETAIL

NOT TO SCALE



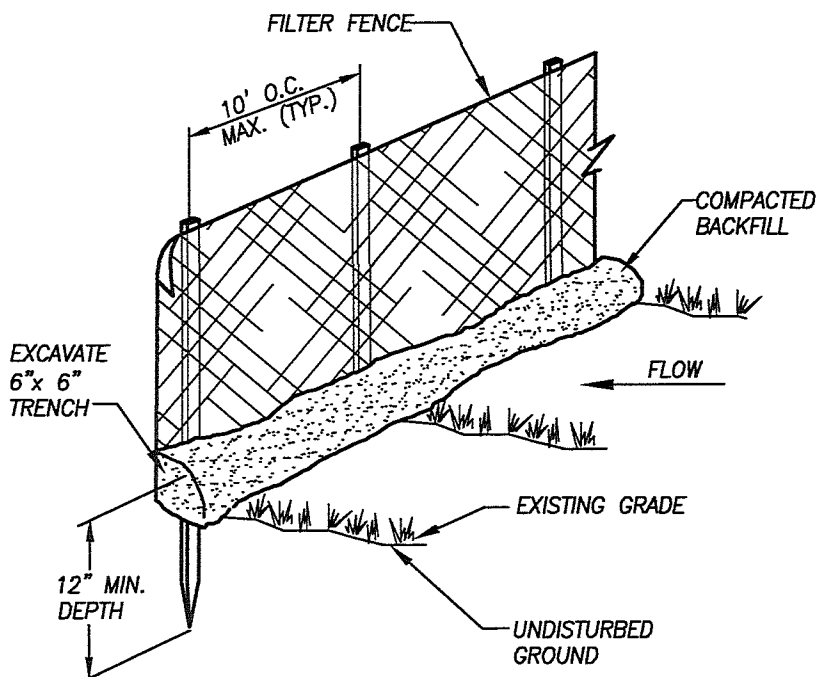
VEGETATIVE SLOPE DETAIL

NOT TO SCALE



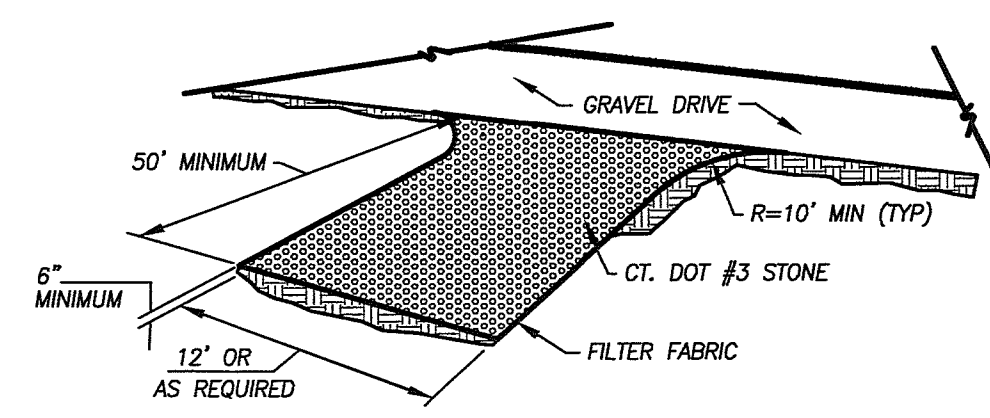
TRAFFIC BOUND GRAVEL SURFACE

NOT TO SCALE



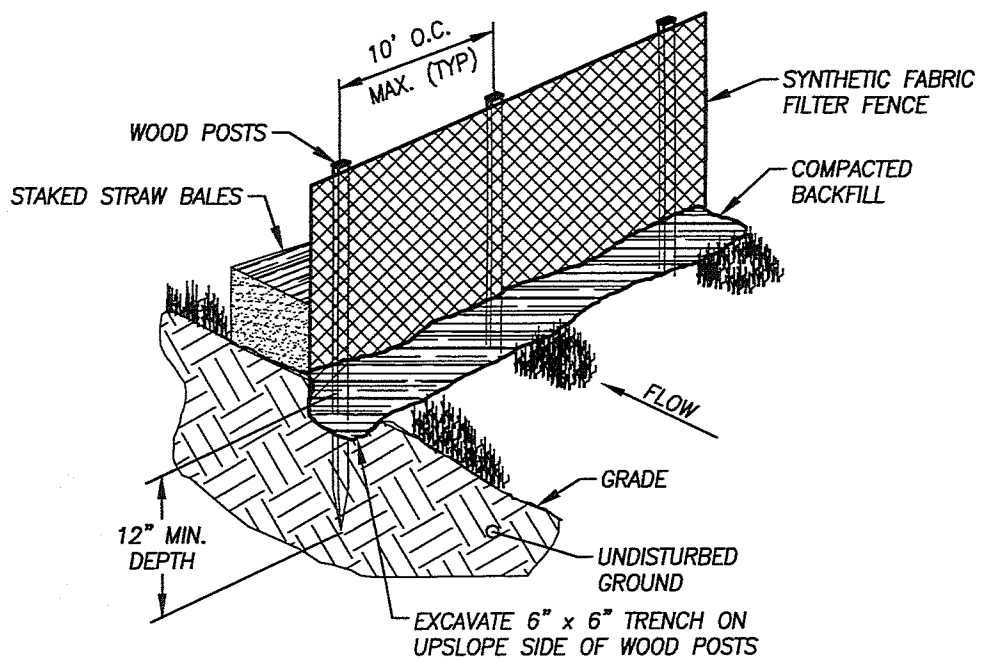
SEDIMENT FENCE DETAIL

NOT TO SCALE



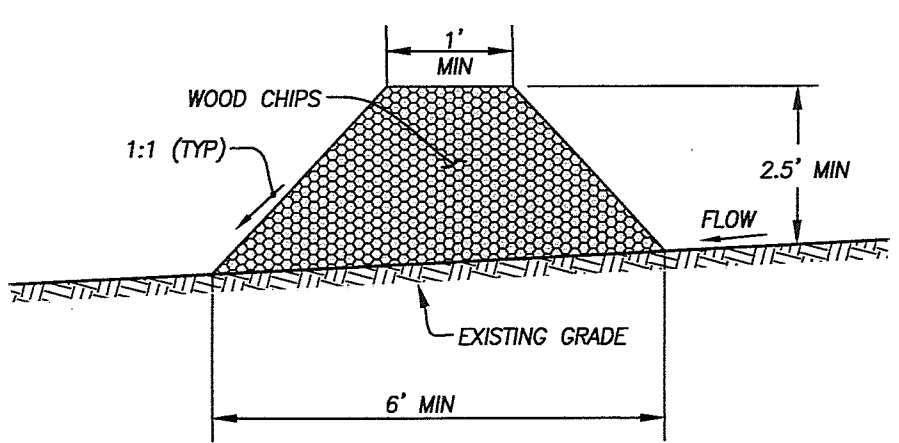
ANTI-TRACKING PAD

NOT TO SCALE



SEDIMENT FENCE BACKED BY STAKED STRAW BALES DETAIL

NOT TO SCALE



WOOD CHIP BERM DETAIL

NOT TO SCALE

NARRATIVE

THIS PROPOSAL INVOLVES THE CONSTRUCTION OF A NEW SINGLE FAMILY RESIDENCE ON AN EXISTING 21.2+/- ACRE PROPERTY LOCATED AT 626 PROVIDENCE PIKE IN THE TOWN OF PUTNAM, CONNECTICUT. THE LOT WAS ORIGINALLY DEVELOPED WITH A ONE-BEDROOM BARN IN 2017 AND IS CURRENTLY USED FOR AGRICULTURAL PURPOSES. THIS PROPOSAL INCLUDES THE CONSTRUCTION OF A NEW SINGLE-FAMILY RESIDENCE AND CONSTRUCTION OF ASSOCIATED SITE IMPROVEMENTS. THE CURRENT ZONING DESIGNATION OF THE SUBJECT PROPERTY IS AG-2. THE EXISTING ONE-BEDROOM BARN IS INTENDED TO REMAIN AS ACCESSORY LIVING QUARTERS, WHICH IS ALLOWED IN THE AG-2 ZONING DISTRICT BY RIGHT AS APPROVED BY THE PUTNAM PLANNING AND ZONING COMMISSION ON 6/19/24 WITH AN EFFECTIVE DATE OF 7/12/24.

IMPROVEMENTS TO THE SITE REQUIRED TO SUPPORT THE USE INCLUDE: CONSTRUCTION OF A NEW SINGLE-FAMILY RESIDENCE, CONSTRUCT A TRAFFIC BOUND GRAVEL SURFACE DRIVEWAY FROM THE EXISTING GRAVEL DRIVEWAY; CONSTRUCTION OF A CODE COMPLIANT SUBSURFACE SEWAGE DISPOSAL SYSTEM (SSDS); CONNECTION TO THE EXISTING DRILLED WATER SUPPLY WELL; ASSOCIATED SITE GRADING, AND EROSION & SEDIMENTATION CONTROLS.

ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA), NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY FOR THE STATE OF CONNECTICUT, THE SOILS LOCATED UPON THE SUBJECT PROPERTY IN THE VICINITY OF THE PROJECT AREA CONSIST OF:

- 15 SCARBORO MUCK, 0 TO 3% SLOPES (CT INLAND WETLAND SOIL)
- 29A AGAWAM FINE SANDY LOAM, 0 TO 3% SLOPES
- 39C HINCKLEY LOAMY SAND, 3 TO 15% SLOPES
- 10B SACO SILT LOAM, FREQUENTLY PONDED, 0 TO 2% SLOPES, FREQUENTLY FLOODED (CT INLAND WETLAND SOIL)

THE LIMITS OF INLAND WETLANDS WERE DELINEATED BY JOSEPH THEROUX, C.S.S. NO DISTURBANCE OF INLAND WETLANDS OR WATERCOURSES IS PROPOSED BY THIS PLAN. APPROXIMATELY 0.35 ACRES OF LAND DISTURBING ACTIVITY IS PROPOSED WITHIN THE 100' UPLAND REVIEW AREA. A MAJORITY OF THE LOT IS LOCATED WITHIN THE UPLAND REVIEW AREA GIVEN THE CONFIGURATION OF THE WETLAND SYSTEM ON THE PROPERTY. THE AREA OF DEVELOPMENT WAS SELECTED BECAUSE IT IS LOCATED ABOVE THE 100-YEAR FLOOD PLAIN AND PRESERVES THE OTHER DEVELOPABLE AREAS OF THE PROPERTY FOR EXPANSION OF THE AGRICULTURAL USE.

PORTIONS OF THE PROPERTY ARE LOCATED WITHIN THE FEMA SPECIAL FLOOD HAZARD AREA (ZONE AE WITH AN ELEVATION OF 379.4 (NAVD88) (FIRM 0901500162F, EFFECTIVE DATE SEPTEMBER 7, 2023). NO FILL OR STRUCTURES ARE PROPOSED WITHIN THE SPECIAL FLOOD HAZARD AREA. THE ONLY CONSTRUCTION ACTIVITY BELOW ELEVATION 379.4 IS THE INSTALLATION OF THE FOOTING DRAIN FOR THE PROPOSED SINGLE FAMILY RESIDENCE. THE FOOTING DRAIN IS INTENDED TO BE INSTALLED WITH A CHECK VALVE TO PROTECT THE FOUNDATION DURING FLOOD EVENTS.

TOPSOIL SHALL BE STOCKPILED ON SITE FOR REUSE IN CONJUNCTION WITH FINAL GRADING AND FOR FINAL SITE STABILIZATION AFTER GRADING IS COMPLETED. A 4" MINIMUM DEPTH OF TOPSOIL SHALL BE PLACED AND SEEDED WITH GRASS AND MULCHED WITH STRAW FOR PERMANENT STABILIZATION.

SEDIMENT FENCE OR WOOD CHIP BERMS SHALL BE INSTALLED AT LOCATIONS SHOWN PRIOR TO ANY EARTHWORK OPERATIONS. THESE MEASURES WILL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

CONSTRUCTION OF THE PROPOSED HOUSE IS INTENDED TO COMMENCE IN FALL 2024 AND BE COMPLETE IN APPROXIMATELY 6 MONTHS.

SANITARY NOTES

- THIS SEPTIC SYSTEM INSTALLATION, INCLUDING ALL MATERIALS (PIPING, SEPTIC TANK, STONE, FILL, ETC.) USED FOR THIS SEPTIC SYSTEM SHALL CONFORM TO THE JANUARY 2024 EDITION OF THE TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS* OF THE CONNECTICUT PUBLIC HEALTH CODE BY THE STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH.
- THE PROPOSED HOUSE SEWER FROM THE BUILDING TO THE SEPTIC TANK SHALL BE SCHEDULE 40 PVC ASTM D 1785/ASTM D 2665 OR APPROVED EQUAL AND INDICATED IN TABLE NO. 2 OF TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS*. ALL OTHER SEWER PIPE FOR THIS SEPTIC SYSTEM SHALL BE 4" PVC ASTM D3034, SDR 35 WITH RUBBER COMPRESSION GASKET OR BELL AND SPIGOT OR APPROVED EQUAL.
- THERE ARE NO WELLS (POTABLE, GEOTHERMAL, OR IRRIGATION) WITHIN 75' OF THE PROPOSED SEPTIC SYSTEM. THERE ARE NO SEPTIC SYSTEMS WITHIN 75' OF THE EXISTING WELL.
- THERE SHALL BE NO STUMPS BURIED ON SITE OR BOULDERS BURIED WITHIN 60" DOWN GRADIENT OF THE SEPTIC SYSTEM. SHOULD ANY SIGNIFICANT VARIATIONS FROM THE TEST HOLE DATA BE ENCOUNTERED DURING EXCAVATIONS (LEDGE, GROUNDWATER, MOTTLING, SOIL TYPE, ETC.), THE DESIGN ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF THE SEPTIC SYSTEM.
- ALL EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL CONTACT "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- THE PROPOSED FILL FOR THIS SEPTIC SYSTEM SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - A. 100% OF FILL SHALL PASS THROUGH A 3" SIEVE.
 - B. MAXIMUM % OF GRAVEL (BETWEEN #4 & 3" SIEVE) = 45%.
 - C. GRADATION OF FILL WITHOUT THE GRAVEL SHALL MEET THE FOLLOWING CRITERIA:

SIEVE SIZE	% PASSING (WET)	% PASSING (DRY)
#4	100%	100%
#10	70 - 100%	70 - 100%
#40	10 - 50%	10 - 75%
#100	0 - 20%	0 - 5%
#200	0 - 5%	0 - 5%
 - D. * PERCENT PASSING THE #40 WET 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%.
 - E. PERCOLATION RATE AFTER PLACEMENT AND COMPACTION SHALL BE FASTER THAN OR EQUAL TO 10.0 MINUTES/INCH.
- A WET OR DRY SIEVE ANALYSIS MAY BE REQUIRED PRIOR TO FILL PLACEMENT TO VERIFY THAT IT MEETS THESE SPECIFICATIONS. THE FILL SHALL BE APPROVED BY THE LOCAL HEALTH DISTRICT/DEPARTMENT OR DESIGN ENGINEER PRIOR TO ITS PLACEMENT ON SITE.
- ELIJAH MANTIS SPECIFIED SAND SHALL CONFORM TO ASTM C33 SAND WITH LESS THAN 10% PASSING #100 SIEVE AND LESS THAN 5% PASSING #200 SIEVE BASED ON A WET SIEVE ANALYSIS.
- NO DEVIATION FROM THE APPROVED DESIGN PLAN SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE LOCAL HEALTH DISTRICT/DEPARTMENT AND THE DESIGN ENGINEER.
- THE SEPTIC TANK SHALL BE PRECAST CONCRETE UNLESS OTHERWISE AUTHORIZED BY THE DESIGN ENGINEER. THE SEPTIC TANK SHALL MEET THE REQUIREMENTS OF SECTION V.A.1.a OF THE TECHNICAL STANDARDS. IF RISER ASSEMBLIES ARE UTILIZED OVER CLEANOUT OPENINGS, THE COVERS SHALL BE LEFT ON THE TANK. RISER COVERS SHALL WEIGH AT LEAST 59 LBS.
- THIS SEPTIC SYSTEM HAS NOT BEEN SIZED TO INCLUDE CAPACITY FOR A GARAGE GRINDER OR LARGE TUB. A GARAGE GRINDER OR LARGE TUB SHALL NOT BE USED IN THE RESIDENCE WITHOUT INCREASING THE SIZE OF THE SEPTIC TANK. IF A GARAGE GRINDER OR LARGE TUB IS DESIRED THEN THE SEPTIC TANK SIZE SHALL BE INCREASED IN ACCORDANCE WITH SECTION V.B.4 OF THE TECHNICAL STANDARDS. WATER TREATMENT WASTEWATER (WATER SOFTENER) SHALL NOT BE DISCHARGED TO THIS SEPTIC SYSTEM.
- SITE PREPARATION PROCEDURE FOR THE INSTALLATION OF THE PROPOSED SEPTIC SYSTEM IS AS FOLLOWS:
 - A. STRIP ALL TOPSOIL, VEGETATION AND ORGANIC MATERIAL IN THE AREA OF, AND 5' SURROUNDING, THE PRIMARY LEACHING TRENCH EXTENDING TO THE LIMITS SHOWN ON CROSS SECTION A-A.
 - B. USING A HEAVY RAKE OR EQUAL, THOROUGHLY SCARIFY AND ROUGHEN UP THE EXPOSED SOIL. REMOVE ANY LARGE STONES (3"+) AND OTHER DEBRIS. PREVENT ANY VEHICULAR TRAFFIC, BACKHOE, TRUCKS, ETC. FROM SMOOTHING/COMPACTING THE EXPOSED SUBSOIL.
 - C. PLACE AND COMPACT SELECT FILL MATERIAL MEETING SPECIFICATIONS INDICATED ABOVE (NOTE #6) IN LIFTS OF NOT GREATER THAN 12" IN THE AREA OF THE PROPOSED LEACHING SYSTEM UP TO AT LEAST THE ELEVATION OF THE TOP OF THE LEACHING SYSTEM. SELECT FILL SHALL BE PLACED 5' FROM THE DOWNGRADIENT EDGE OF THE SYSTEM AND 2' FROM THE UPGRADIENT EDGE AND SIDES OF THE SYSTEM AND SLOPE TO THE EXISTING SUBSOIL AT 2H:1V (MAX) OUTSIDE OF THAT LIMIT.
 - D. PERFORM AT LEAST 1 PERCOLATION TEST ON PLACED FILL. FILL MUST HAVE A PERCOLATION RATE EQUAL TO OR FASTER THAN THAT AS INDICATED IN NOTE #6C. IF PERCOLATION RATE IS SLOWER THAN THAT RATE, ALL FILL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE FILL MEETING PROPER SPECIFICATIONS.
 - E. EXCAVATE TRENCH TO DESIGN GRADES AND INSTALL SEPTIC SYSTEM PER MANUFACTURER'S SPECIFICATIONS (SEE WWW.ELIJAH.COM OR CONTACT 1-800-444-1359) AS SHOWN ON THIS PLAN USING APPROVED MATERIALS (SAND, PIPE, ETC.). NOTE: THE MANTIS UNITS ARE NOT APPROVED FOR AND SHALL NOT BE INSTALLED UNDER TRAVELLED/PARKING AREAS.
 - F. AFTER SETTLING, THE COVER OVER THE SYSTEM SHALL BE A MINIMUM OF 6" AND A MAXIMUM OF 18" OF MATERIAL MEASURED FROM THE TOP OF THE MODULE TO THE FINISHED GRADE. GRADE TO PREVENT PONDING AND SEEDED WITH GRASS TO STABILIZE. THE FINISHED GRADE 10' FROM ANY PART OF THE PROPOSED MANTIS UNITS SHALL BE AT LEAST THE SAME ELEVATION AS THE TOP OF THE MANTIS UNITS. DO NOT DRIVE OR PAVE OVER SYSTEM.
 - G. ACCESS MANHOLES AT THE INLET BATTLE AND AT THE OUTLET FILTER OF THE SEPTIC TANK SHALL BE INSTALLED TO WITHIN 12" OF FINISHED GRADE.
 - H. FOR EXACT HOUSE DIMENSIONS, SEE BUILDING PLANS.
 - I. BENCHMARK SHALL BE LOCATED IN THE AREA OF DEVELOPMENT PRIOR TO THE START OF CONSTRUCTION.
 - J. PRIOR TO CONSTRUCTION, THE HOUSE AND SEPTIC SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND SURVEYOR.

OPERATION & MAINTENANCE OF EROSION CONTROLS

NO CONSTRUCTION SHALL PROCEED UNTIL PROPER SEDIMENTATION AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED AS THE SEQUENCE OF CONSTRUCTION NECESSITIES.

ALL TEMPORARY FILL, STORAGE OR STOCKPILE AREAS SHALL BE PROPERLY STABILIZED TO PREVENT EROSION AND SUITABLY CONTAINED TO PREVENT TURBID RUNOFF. ALL AREAS AFFECTED BY TEMPORARY FILLS MUST BE RESTORED TO THEIR ORIGINAL CONTOURS AND REVEGETATED WITH SUITABLE VEGETATION. THE USE OF TEMPORARY FILL AND/OR EXCAVATION SHALL BE MINIMIZED TO ONLY THAT AREA REQUIRED TO PERFORM THE WORK.

DUMPING OF OIL OR OTHER DELETERIOUS MATERIALS ON THE GROUND IS FORBIDDEN. THE DEVELOPER OR CONTRACTOR SHALL PROVIDE A MEANS OF CATCHING, RETAINING AND PROPERLY DISPOSING OF DRAINED OIL, REMOVED OIL FILTERS, OR OTHER DELETERIOUS MATERIAL FROM EQUIPMENT USED ON SITE. VEHICLE MAINTENANCE SHALL BE COMPLETED OFF SITE. ALL OIL SPILLS SHALL BE IMMEDIATELY REPORTED TO THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION/HAZARDOUS MATERIALS OFFICE. FAILURE TO DO SO MAY RESULT IN THE IMPOSITION OF FINES UNDER THE APPLICABLE CONNECTICUT GENERAL STATUTES.

EVERY PRECAUTION SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT AND MINIMIZE THE DEGRADATION OF THE EXISTING WATER QUALITY. ALL ACTIVITIES SHALL BE IN CONFORMANCE TO AND CONSISTENT WITH ALL APPLICABLE WATER QUALITY STANDARDS AND MANAGEMENT PRACTICES AS SET FORTH BY LOCAL, STATE AND FEDERAL AGENCIES.

DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES. SAID MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINSTORM. ACCUMULATED DEPOSITS OF SEDIMENT AND SILT SHALL BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION AND SEDIMENT CONTROL BARRIERS, AND UPON ESTABLISHMENT OF PERMANENT VEGETATION COVER, SUCH MATERIALS REMOVED SHALL BE SPREAD AND STABILIZED IN NON-WETLAND AREAS WHICH ARE NOT SUBJECT TO EROSION, OR WHICH ARE NOT TO BE PAVED OR BUILT UPON.

WOOD CHIP BERMS, SEDIMENT FENCE AND OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED, CLEANED AND/OR REPLACED AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD IN ORDER TO MAINTAIN COMPLETE AND INTEGRAL EROSION AND SEDIMENT CONTROL PROTECTION. ONCE IN PLACE, ALL EROSION AND SEDIMENT CONTROL FACILITIES AND MEASURES ARE TO REMAIN IN PLACE AND IN PROPER CONDITION AND BE CONTINUOUSLY MAINTAINED UNTIL FINAL GRADING HAS BEEN COMPLETED. ALL DISTURBED AREAS UPGRADIENT OF SAID FACILITIES HAVE BEEN PERMANENTLY STABILIZED, AND ALL NEWLY GRASSSED AREAS HAVE HAD AT LEAST TWO MOWINGS. FOLLOWING SUCH PERMANENT STABILIZATION, THE FACILITIES SHALL BE DISMANTLED, REMOVED, AND DISPOSED OF IN AN APPROVED MANNER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE SHOWN ON THE PLANS OR PRESCRIBED HEREIN SHALL BE PUT IN PLACE, WHENEVER NECESSARY, TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE TOWN STAFF OR THEIR DESIGNATED AGENT.

DISTURBANCE OF THE LAND SHALL BE LIMITED TO THE MINIMUM EXTENT NECESSARY TO COMPLETE THE PROPOSED DEVELOPMENT. ALL EXISTING TREES AND SHRUBS SHALL BE CONSERVED WHERE POSSIBLE, EXCEPT THOSE WHOSE REMOVAL IS REQUIRED TO PROCEED WITH PROPOSED WORK. THE LIMITS OF DISTURBANCE SHALL BE ESTABLISHED IN THE FIELD PRIOR TO STARTING ANY ACTUAL CONSTRUCTION ACTIVITIES AND SHALL BE GENERALLY AS DEPICTED ON THIS PLAN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE IN ACCORDANCE WITH THE PROCEDURES AS OUTLINED IN THE "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DOWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES" AS ADOPTED BY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, EFFECTIVE ON DECEMBER 31, 2020.

THE CONTRACTOR SHALL INSPECT ALL DISTURBED AREAS OF CONSTRUCTION ACTIVITY THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF ALL RAIN EVENTS, WHERE SITES HAVE BEEN TEMPORARILY OR FULLY STABILIZED, SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH FOR THREE CONSECUTIVE MONTHS.

DURING CONSTRUCTION AND IMMEDIATELY FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE INSPECTION AND MAINTENANCE TO ASSURE PROPER PERFORMANCE OF THE SEDIMENTATION AND EROSION CONTROL SYSTEM. INSPECTING AND MAINTAINING SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- * INSPECTION OF ALL SEDIMENT FENCE AND WOOD CHIP BERMS, REMOVE ACCUMULATED SEDIMENT IF REQUIRED (GREATER THAN 4" DEPTH)
- * INSPECTION OF ANTI-TRACKING PAD, REMOVE, DISPOSE AND REPLACE IF PAD IS NO LONGER FUNCTIONAL IN THE CATCHMENT OF SEDIMENTS FROM VEHICULAR/TRUCK TRAFFIC.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. SUCH INSPECTION AS REQUIRED TO PROCEED WITH PROPOSED WORK IN THE PLAN SHALL BE INSPECTED TO INSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO DOWNSTREAM WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

THE CONTRACTOR SHALL APPOINT AN AGENT WHO SHALL BE PERSONALLY RESPONSIBLE FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN AND ENFORCING THE PRESCRIBED SAFEGUARDS DURING THE CONSTRUCTION PERIOD.

THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PROPER TOWN AGENCIES AND OFFICIALS OF ANY CONSTRUCTION ACTIVITY, AND CONVEYING A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE OF THE LAND IS TRANSFERRED TO A THIRD PARTY.

EROSION CONTROL NOTES

- ALL UTILITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- THE RESPONSIBLE PARTY FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES IS THE SITE CONTRACTOR.
- THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL* BY THE CONNECTICUT COMMISSION ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION, SHALL BE USED FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES. THE PROPERTY OWNER SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY IF DIRECTED BY THE ENGINEER OR TOWN STAFF.
- SEEDING FOR PERMANENT STABILIZATION SHALL BE COMPLETED BETWEEN APRIL 15 THROUGH JUNE 15 OR BETWEEN AUGUST 15 THROUGH SEPTEMBER 15. IF SEEDING CANNOT BE COMPLETED WITHIN THESE TIMES, APPLICATION OF TEMPORARY MULCH WILL BE CONDUCTED UNTIL THE NEXT SEEDING PERIOD. SEED MIXTURE SHALL BE AS FOLLOWS:

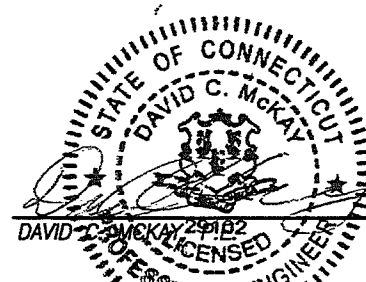
	KENTUCKY BLUEGRASS	20 LBS/ACRE	OR	0.45 LBS/1,000 S.F.
	CREeping RED FESCUE	20 LBS/ACRE	OR	0.45 LBS/1,000 S.F.
	PERENNIAL PEGRASS	5 LBS/ACRE	OR	0.10 LBS/1,000 S.F.
- MULCH SHALL BE A GOOD QUALITY STRAW AND SHALL BE APPLIED AT A RATE OF APPROXIMATELY 2-3 BALES/1,000 SF.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WITHIN 24 HOURS AFTER RAIN EVENTS WITH GREATER THAN 0.5" OF RAINFALL IN A 24-HOUR PERIOD, AND REPAIRED OR REPLACED AS NECESSARY TO INSURE COMPLIANCE WITH THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.

CONSTRUCTION SEQUENCE

- SECURE ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS.
- CLEAR TREES AND INSTALL SEDIMENT FENCE AND/OR WOOD CHIP BERM IN SPECIFIED LOCATIONS AS SHOWN DOWNGRADIENT OF DEVELOPMENT AREA AND INSTALL ANTI-TRACKING PAD AT CONSTRUCTION EXIT. STRIP TOPSOIL FROM DEVELOPMENT AREA AND STOCKPILE AT AN APPROVED LOCATION FOR LATER REUSE. SEED TOPSOIL STOCKPILE WITH REYGRASS FOR TEMPORARY STABILIZATION.
- EXCAVATE FOR BUILDING FOUNDATION.
- PERFORM ALL NECESSARY ROUGH GRADING FOR BUILDING AND SUBSURFACE SEWAGE DISPOSAL SYSTEM.
- INSTALL UTILITY CONDUIT. CONSTRUCT HOUSE. INSTALL SUBSURFACE SEWAGE DISPOSAL SYSTEM AND CONNECTION TO WATER SUPPLY WELL. PERFORM FINAL SITE GRADING.
- AT COMPLETION OF CONSTRUCTION, LOAM ALL DISTURBED AREAS (4" MINIMUM), SEED WITH GRASS AND MULCH. AFTER ALL AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE EROSION CONTROL MEASURES.

TRAFFIC NARRATIVE

THE CT DEPARTMENT OF TRANSPORTATION OPERATED TRAFFIC COUNTING EQUIPMENT IN THE VICINITY OF THE SITE MOST RECENTLY DURING THE AFTERNOON OF WEDNESDAY, DECEMBER 14 AND MORNING OF THURSDAY, DECEMBER 15, 2022. THE AVERAGE DAILY TRAFFIC COUNT FOR THIS AREA IS 5,500 VEHICLES. THE PEAK MORNING HOUR OF 7 AM TO 8 AM WAS 317 VEHICLES PER HOUR AND THE PEAK AFTERNOON HOUR FROM 3 PM TO 4 PM WAS 451 VEHICLES. THE PROPOSED TWO-BEDROOM SINGLE FAMILY HOUSE AND ACCESSORY LIVING QUARTERS WOULD CONTRIBUTE 10 TRIPS PER DAY EACH AND 1 TRIP PER PEAK HOUR EACH FOR A TOTAL OF 20 TRIPS PER DAY AND 2 TRIPS PER PEAK HOUR. THIS RESULTS IN A 0.3% INCREASE IN DAILY TRIPS, A 0.6% INCREASE IN THE MORNING PEAK HOUR, AND A 0.4% INCREASE IN THE AFTERNOON PEAK HOUR. THE ADDITIONAL TRIPS WILL HAVE NO NEGATIVE IMPACT ON THE OPERATION OF THE STATE HIGHWAY SYSTEM.

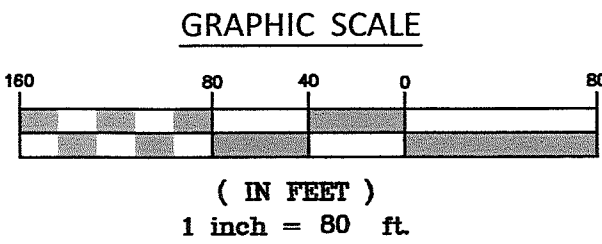


29102 6/24/24
LICENSE NO. DATE

\\192.168.2.5\PROJECTS\CIVIL 3D PROJECTS\2024\24-3423 CARPENTER.DWG\DESIGN\OVERALL PLAN.DWG



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NOTES

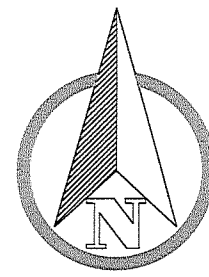
- THIS PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019. IT IS A COMPILED PLAN AND CONFORMS TO HORIZONTAL CLASS "D" ACCURACY STANDARDS.

THIS PLAN WAS COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
- NORTH ORIENTATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN DATUM 1983 (NAD83) DERIVED FROM CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP) GEOGRAPHIC INFORMATION SYSTEM (GIS) DATA.
- VERTICAL DATUM FOR TOPOGRAPHIC INFORMATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). TOPOGRAPHIC INFORMATION IS DERIVED FROM CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP) 2016 LIDAR DATA. TOPOGRAPHIC ACCURACY IS CLASS "1-D". CONTOUR INTERVAL IS 2'.
- COLOR AERIAL ORTHOPHOTOGRAPHS HAVE BEEN OBTAINED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE THROUGH THE EARTH EXPLORER WEBSITE. AERIAL IMAGERY DATE IS JULY 2023.
- PARCEL LINES AS DEPICTED HEREON ARE APPROXIMATE AND ARE DERIVED FROM CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP) GEOGRAPHIC INFORMATION SYSTEM (GIS) DATA.
- SOIL MAP UNITS AS DEPICTED HEREON ARE DERIVED FROM CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP) GEOGRAPHIC INFORMATION SYSTEM (GIS) DATA, WHICH IS BASED UPON THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA), NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY FOR THE STATE OF CONNECTICUT.

SOILS LEGEND

- * 15 SCARBORO MUCK, 0-3% SLOPES
- ** 29A AGAWAM FINE SANDY LOAM, 0-3% SLOPES
- *** 38C HINKLEY LOAMY SAND, 3-15% SLOPES
- * 108 SAGO SILT LOAM, 0-2% SLOPES, FREQUENTLY FLOODED
- * CONNECTICUT INLAND WETLAND SOIL MAP UNIT
- ** PRIME FARMLAND SOIL MAP UNIT
- *** CONNECTICUT STATEWIDE IMPORTANT FARMLAND SOIL MAP UNIT

Compilation Plan
"Overall Property Plan"
Prepared for
Alex T. Carpenter & Yoko Takemura
626 Providence Pike - Putnam, Connecticut

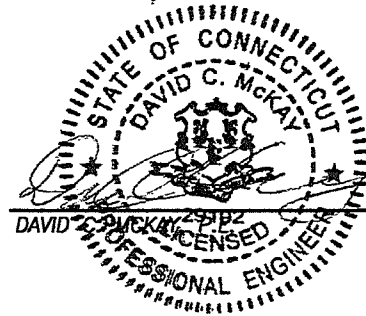


SCALE:
1" = 80'
DATE:
June 2024
JOB I.D. NO.
24-3423
Revisions

SHEET NO.

3

3



29102 6/24/24
LICENSE NO. DATE



INLAND WETLAND COMMISSION

APPENDIX A

APPLICATION FOR PERMIT

This application is for the use of inland wetlands and water courses.

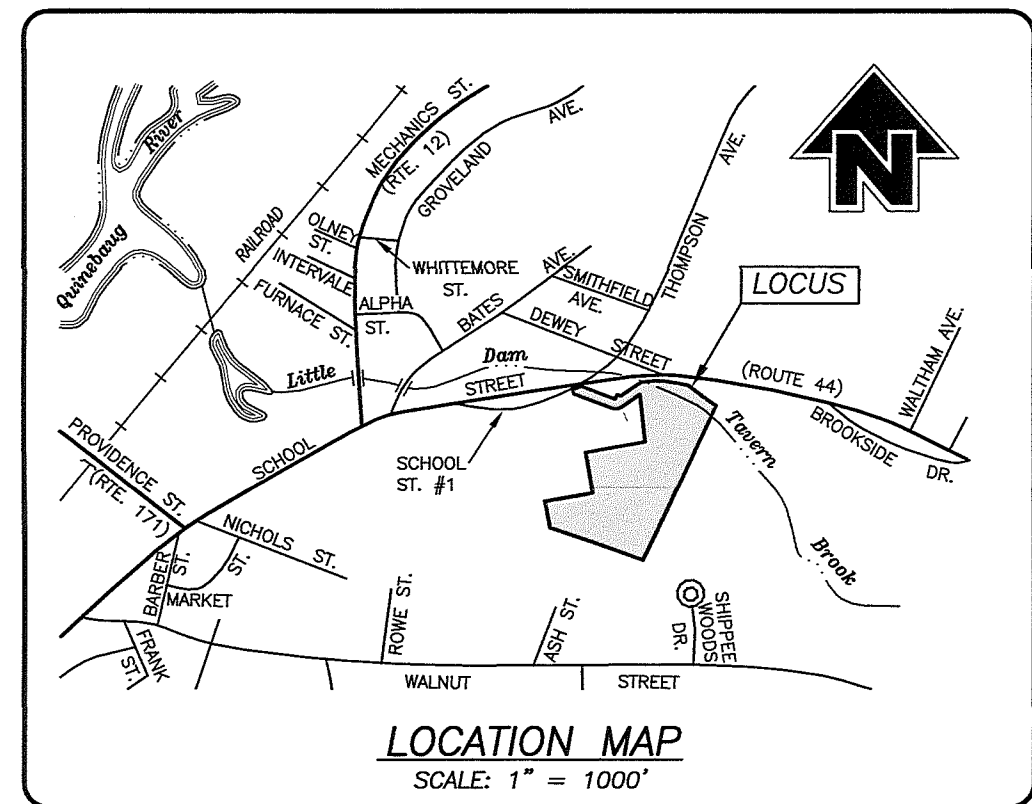
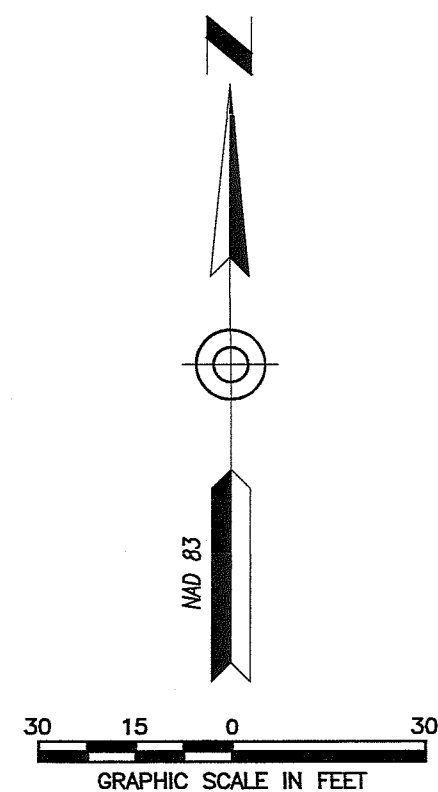
The meetings are held on the second Wednesday of every month at 7:00pm in the Town Hall. If an on-site inspection is canceled due to inclement weather, the applicant is asked to call the office at 963-6803 30 minutes before the scheduled inspection to see if or when the inspection will be held.

Name of Applicant CONNECTICUT PRESERVATION TRUST
Applicant's Address P.O. Box 202 Putnam, CT 06260
Phone # 860-230-8180 C/O MICHAEL CHRISTINA
Owner of Land SAME
Owner's Address _____
Location and description of proposed activity: 465 SCHOOL STREET (ROUTE 44)
CONSTRUCTION OF AN ACCESS DRIVEWAY

Activity & Purpose Code

Please **CHECK** one in each column that best describes the activity proposed.

<u>Code</u>	<u>Activity Type</u>	<u>Code</u>	<u>Activity Purpose</u>
☐	1 Filling	☐	A Residential Improvement by homeowner
☐	2 Excavation	☐	B New residential development - single family
☐	3 Land Clearing	☐	C New residential development - multi- family/condo
☐	4 Stream Channel	☐	D Commercial/Industrial Uses
☐	5 Stream Stabilization	☐	E Municipal Improvements
☐	6 Stream Clearance	☐	F Utility Company Improvements
☐	7 Culverting	☐	G Agriculture, Forestry or Conservation
☐	8 Und. Grd. Util.	☐	H Wetland Creation/Restoration
☒	9 Roadway Construction (DRIVEWAY)	☐	I Storm Water/Flood Control
☐	10 Drainage Improvements	☐	J Erosion/Sediment Control
☐	11 Pond Dredge/Dam Construction	☐	K Recreation/Boating/Navigation
☐	12 Activity Buffer/Set Back Area	☐	L Routine Maintenance
☐	13 Other: Please describe: _____		



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, Amended October 26, 2018;
 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Field surveyed topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - LIDAR topographic features conform to a Class "T-D" vertical accuracy.
 - Survey Type: Improvement Location Survey.
 - Boundary Determination Category: Resurvey
- Zone = R-10.
- Owner of record: Connecticut Preservation Trust.
PO Box 202
Putnam, CT 06260
See Volume 830, Page 157
- Parcel is shown as Lot #142 on Assessors Map #8.
- Parcel lies within Flood Hazard Zone "X" (areas of minimal flooding) as shown on FIRM Map # 09015C Panel 0142F Effective Date: 9/7/2023.
- Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
- Wetlands shown were taken from map reference.
- North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from GPS observations using the "Superior" statewide GPS network and RTK correction system.
- Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.

MAP REFERENCES:

- "Property Survey - Prepared for - Gilbert Homes, Inc. - School Street & CT. Route #44, Putnam, CT. - Plan of Future Development Scale: 1" = 60' - Date: Sept. 17, 2014 - Sheet 2 of 13 - Prepared by: CME Associates, Inc."
- "Easement Map - Prepared for - Perry Adventures, LLC - 445 School Street (Route 44) - Putnam, Connecticut - Scale: 1" = 30' - Date: 6/09/2015 - Sheet 2 of 6 - Revised to: 10/22/2015 - Prepared by: Killingly Engineering Associates". On file in the Putnam Land Records as Map #1560.

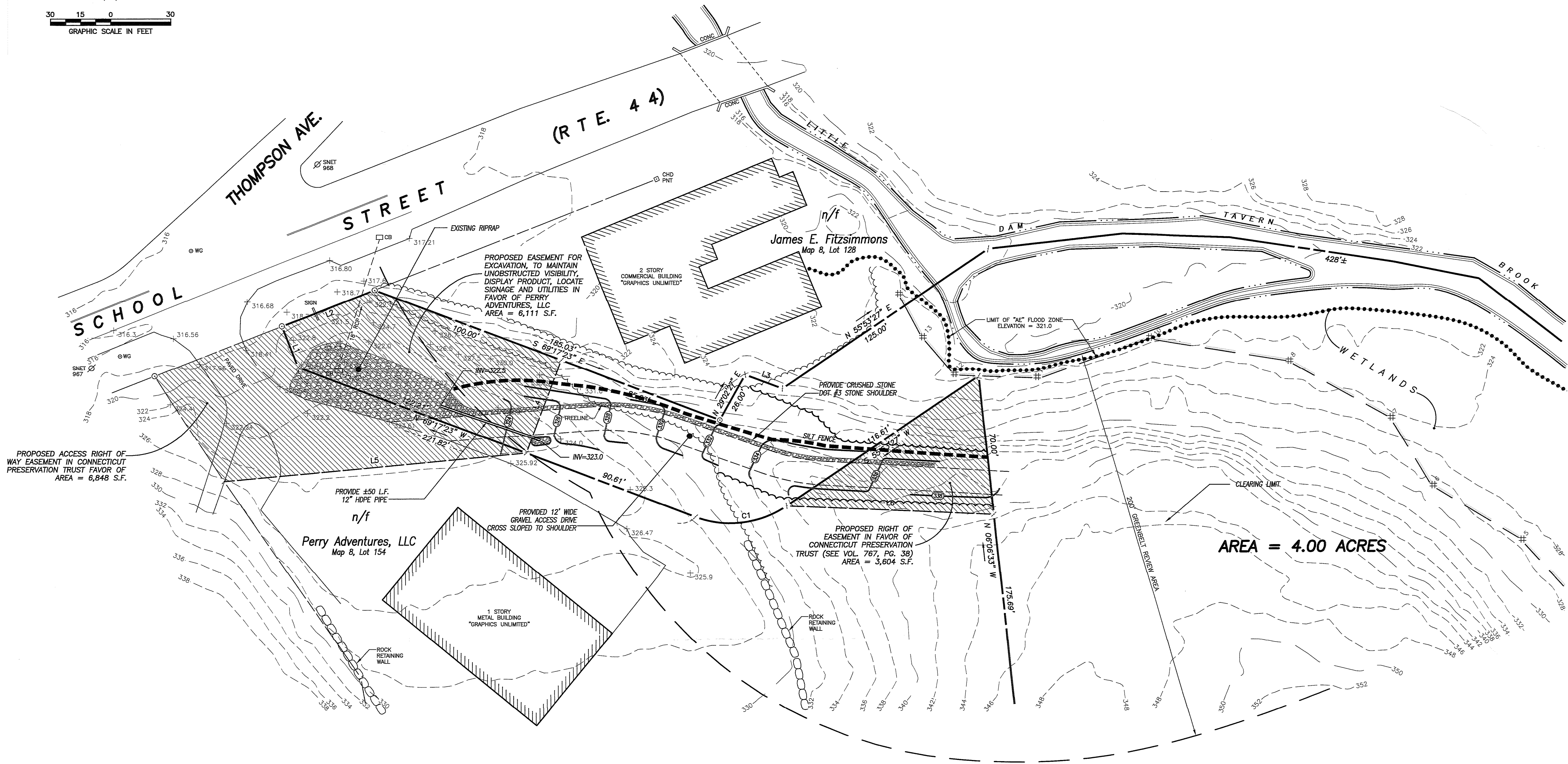
04/26/2024	PER TOWN STAFF REVIEW
DATE	DESCRIPTION
	REVISIONS

IMPROVEMENT LOCATION SURVEY
SHOWING PROPOSED ACCESS DRIVE
PREPARED FOR
**CONNECTICUT
PRESERVATION TRUST**

465 SCHOOL STREET (ROUTE. 44)
PUTNAM, CONNECTICUT

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

DATE: 4/05/2024	DRAWN: RGS
SCALE: 1" = 30'	DESIGN: --
SHEET: 1 OF 2	CHK BY: ---
DWG. No: CLIENT FILE	JOB No: 22006



LEGEND

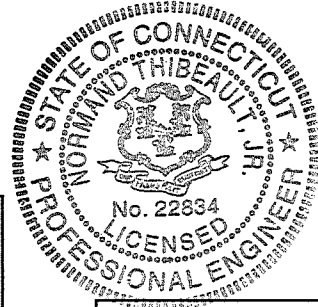
- F.F. FINISHED FLOOR
⊙ IRON PIN FOUND
⊠ CHD MONUMENT POINT
⊙ UTILITY POLE
⊙ WG WATER GATE
⊠ CB CATCH BASIN
--- 100 --- EXISTING CONTOURS
--- 100 --- PROPOSED CONTOURS
--- INLAND WETLANDS FLAG
--- SILT FENCE

LINE DATA		
LINE	BEARING	DISTANCE
L1	N 21°23'37" W	22.21'
L2	N 68°36'23" E	50.00'
L3	S 69°30'33" E	20.00'
L4	S 20°42'37" W	50.00'
L5	S 84°36'51" W	152.31'
L6	S 87°40'53" E	104.08'

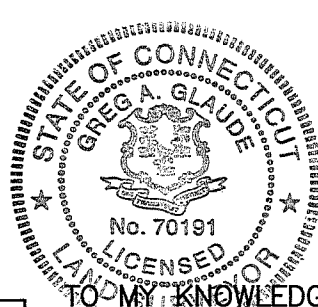
CURVE DATA				
CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	50.00'	47.84'	S 54°49'14" W	46.04'

APPROVED BY THE TOWN OF PUTNAM INLAND
WETLAND AND WATER COURSES COMMISSION

CHAIRMAN / SECRETARY DATE



Norman E. Thibault, Jr.
NORMAN E. THIBAUT, JR., P.E.
JC #PEN 0022834



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

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE 4-26-2024

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

DEVELOPMENT SCHEDULE: (Individual Lots):

1. Prior to any work on site, the limits of disturbance shall be clearly flagged in the field by a Land Surveyor, licensed in the State of Connecticut. Once the limits of clearing are flagged, they shall be reviewed and approved by an agent of the Town.
2. Install and maintain erosion and sedimentation control devices as shown on these plans. All erosion control devices shall be inspected by an agent of the Town. Any additional erosion control devices required by the Town's Agent shall be installed and inspected prior to any construction on site. (See silt fence installation notes.)
3. Install construction entrance.
4. Construction will begin with clearing, grubbing and rough grading of the proposed site. The work will be confined to areas adjacent to the proposed building, septic system and driveway. Topsoil will be stockpiled on site and utilized during final grading.
5. Begin construction of the house, septic system and well.
6. Disturbed areas shall be seeded and stabilized as soon as possible to prevent erosion.
7. The site will be graded so that all possible trees on site will be saved to provide buffers to adjoining lots.

DEVELOPMENT CONTROL PLAN:

1. Development of the site will be performed by the individual lot owner, who will be responsible for the installation and maintenance of erosion and sediment control measures required throughout construction.
2. The sedimentation control mechanisms shall remain in place from start of construction until permanent vegetation has been established. The representative for the Town of Putnam will be notified when sediment and erosion control structures are initially in place. Any additional soil & erosion control measures requested by the Town or its agent, shall be installed immediately. Once the proposed development, seeding and planting have been completed, the representative shall again be notified to inspect the site. The control measures will not be removed until this inspection is complete.
3. All stripping is to be confined to the immediate construction area. Topsoil shall be stockpiled so that slopes do not exceed 2 to 1. A hay bale sediment barrier is to surround each stockpile and a temporary vegetative cover shall be provided.
4. Dust control will be accomplished by spraying with water and if necessary, the application of calcium chloride.
5. The proposed planting schedule is to be adhered to during the planting of disturbed areas throughout the proposed construction site.
6. Final stabilization of the site is to follow the procedures outlined in "Permanent Vegetative Cover", if necessary a temporary vegetative cover is to be provided until a permanent cover can be applied.

SILT FENCE INSTALLATION AND MAINTENANCE:

1. Dig a 6" deep trench on the uphill side of the barrier location.
2. Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
4. Inspect and repair barrier after heavy rainfall.
5. Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
6. Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the inland wetlands commission.
7. Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:
 - the fence has been overtopped, undercut or bypassed by runoff water,
 - the fence has been moved out of position (knocked over), or
 - the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

1. Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
2. Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
3. Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
4. Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the Inland Wetlands Commission.
5. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
 - the barrier has been overtopped, undercut or bypassed by runoff water,
 - the barrier has been moved out of position, or
 - the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS-2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

SEEDBED PREPARATION

Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, discing, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent. Additionally, lime may be applied using rates given in Figure TS-1 in the 2002 Guidelines.

SEEDING

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

MULCHING

Temporary seedlings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%-100% coverage.

MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent recurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

1. Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of 4".
2. Once the topsoil has been spread, all stones 2" or larger in any dimension will be removed as well as debris.
3. Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per 1000 s.f. Work time and fertilizer into the soil to a depth of 4".
4. Inspect seedbed before seeding. If traffic has compacted the soil, retil compacted areas.
5. Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 & August 15 - October 1.
6. Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

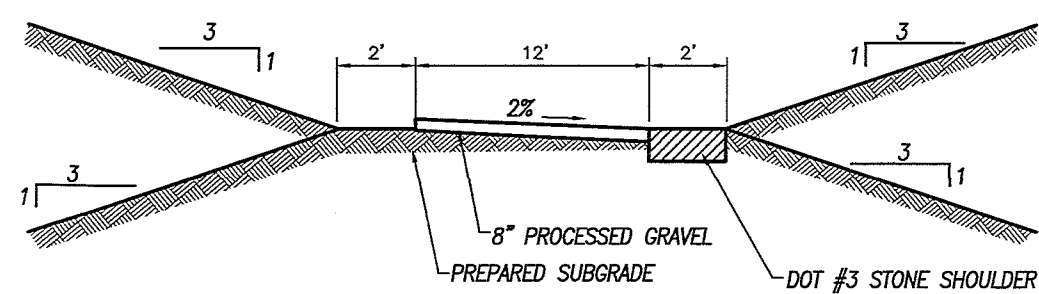
Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

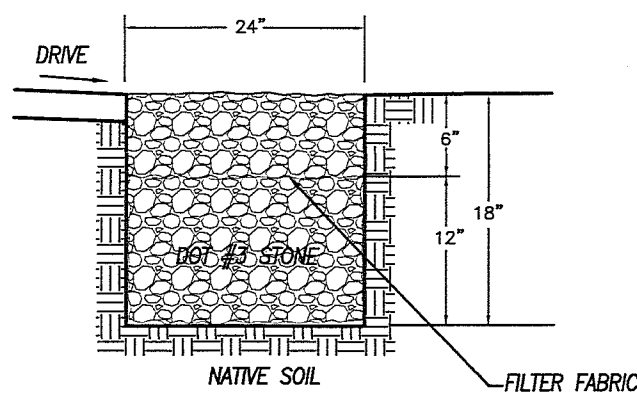
While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.
- Grade and landscape around buildings and septic systems to divert water away from them.



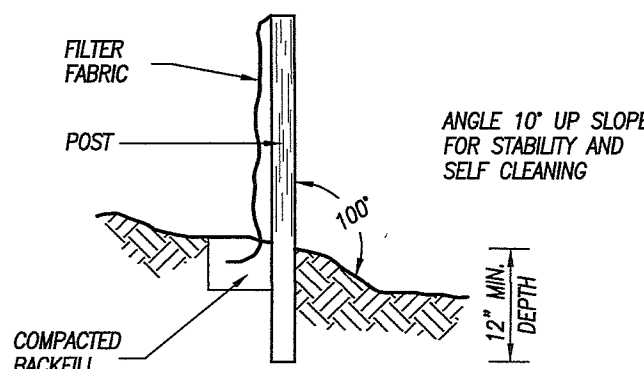
GRAVEL DRIVE DETAIL

NOT TO SCALE



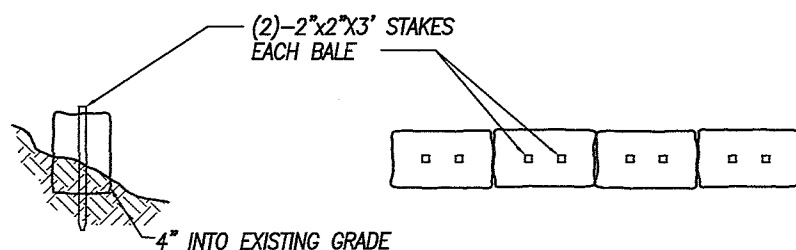
STONE SHOULDER SECTION

NOT TO SCALE



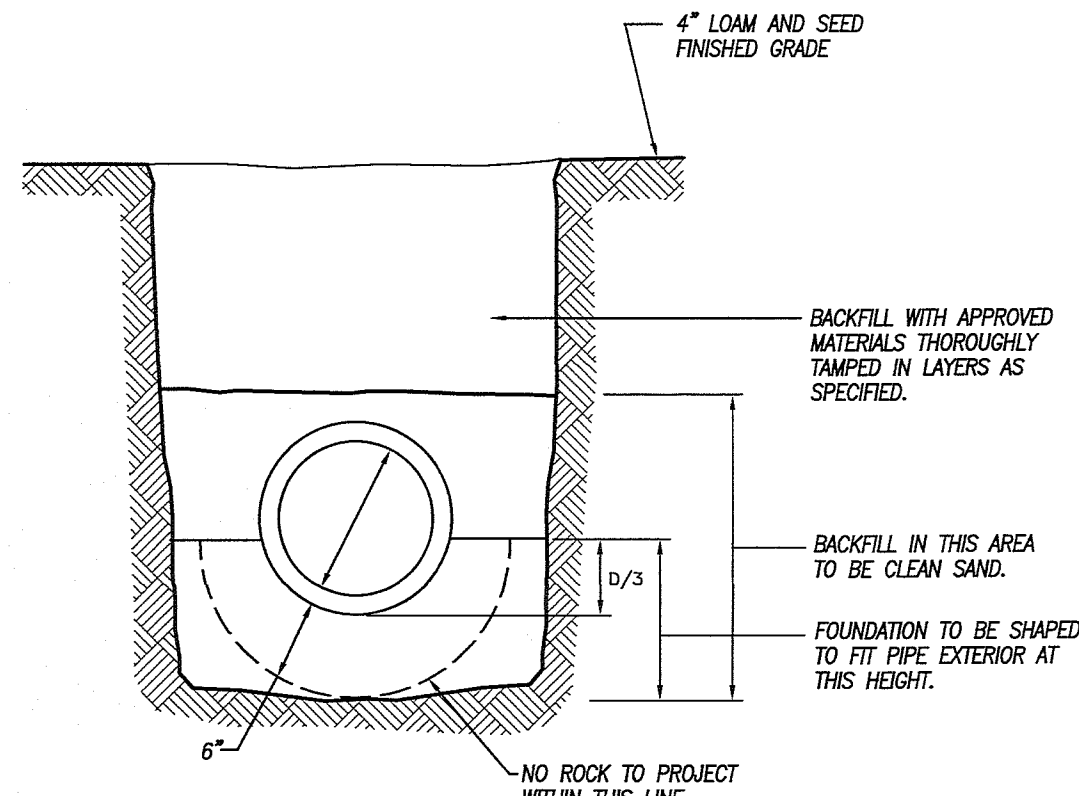
SILT FENCE

NOT TO SCALE



HAYBALE BARRIER

NOT TO SCALE



SANITARY SEWER / STORM DRAIN

PIPE IN TRENCH DETAIL

NOT TO SCALE

04/26/2024	PER TOWN STAFF REVIEW
DATE	DESCRIPTION
	REVISIONS

DETAIL SHEET
PREPARED FOR
CONNECTICUT
PRESERVATION TRUST

465 SCHOOL STREET (ROUTE 44)
PUTNAM, CONNECTICUT

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

DATE: 4/05/2024	DRAWN: RGS
SCALE: NOT TO SCALE	DESIGN: ---
SHEET: 2 OF 2	CHK BY: ---
DWG. No: CLIENT FILE	JOB No: 22006

APPROVED BY THE TOWN OF PUTNAM INLAND
WETLAND AND WATER COURSES COMMISSION

CHAIRMAN / SECRETARY

DATE



Normand E. Thibault, Jr.
NORMAND E. THIBAUT, JR., P.E.
LIC #PEN 0022834
DATE 4/5/2024



TOWN OF PUTNAM

MUNICIPAL COMPLEX

TOWN HALL

200 SCHOOL STREET • PUTNAM, CT 06260

PERMIT

PUTNAM INLAND WETLANDS AND WATERCOURSES COMMISSION

ISSUE DATE OF PERMIT 05-01-2024

Applicant/Permittee: Connecticut Preservation Trust

Location of Regulated Activity: 465 School Street, Putnam, CT

This permit has been granted by the Putnam Inland Wetlands and Watercourses Commission Agent based on your application, or such final revisions, if applicable, dated 4/8/2024 to allow you to conduct Regulated Activities in the Town of Putnam.

This Permit is valid for five years from the Permit Date, unless renewed by the Commission in accordance with the Regulations and applicable statutes.

The Putnam Inland Wetlands and Watercourses Commission Agent has considered your application with due regard for their regulations and has found that the proposed work as specified and **subject to the conditions below**, conforms to said regulations and that no feasible and prudent alternative exists. This authorization constitutes the permit required by Section 22a-42 of the Connecticut General Statutes, as amended.

This Permit authorizes the following activity(s) for the purpose(s) stated in your application:

Construction of a 12' wide gravel access drive and drainage improvements as depicted on a plan entitled "Improvement Location Survey Showing Proposed Access Drive prepared for Connecticut Preservation Trust 465 School Street (Route 44) Putnam, Connecticut" Prepared by Killingly Engineering Associates, Dated and revised through 04/26/2024.

This permit is subject to and does not derogate any rights or powers of the Town of Putnam. It conveys no property rights or exclusive privileges and is subject to all public and private rights and all applicable federal, state, and local laws. Further, if

the authorized activity also involves activity or a project that requires zoning or subdivision approval, special permit, variance or special exception, no work pursuant to this wetlands permit may begin until such approval(s) are obtained.

A copy of this permit will be referred to the Putnam Planning and Zoning Commissions.

This Permit is issued subject to the following conditions and modifications:

STANDARD CONDITIONS

1. The Wetlands Agent shall be notified 48 hours prior to commencement of work and upon its completion. If the authorized activity is not completed on or before the Permit expiration date stated above, all activity shall cease and, if not revoked or specifically renewed or extended by the Commission, or its agent, this Permit shall become null and void. Expired permits may not be renewed and a new application may be required.
2. The permittee shall schedule a pre-construction meeting with the Wetlands Agent to be held no sooner than 2 weeks before the regulated activities are to begin. The permittee shall, at that time, review with the Wetlands Agent all procedures to be taken to protect the wetlands and watercourses prior to and during construction.
3. All work and all regulated activity conducted pursuant to this authorization shall be consistent with the terms and conditions of this Permit. Any structures, excavation, fill, obstructions, encroachments, or regulated activities not specifically identified and authorized herein shall constitute a violation of the permit and may result in its modification, suspension or revocation.
4. The permittee shall provide the Putnam Inland Wetlands and Watercourses Commission with written notice of any transfer or assignment of this Permit.
5. In evaluating this application, the Commission relied on information provided by the applicant. If such information is subsequently proven to be false, incomplete, or misleading this permit may be modified, suspended, or revoked and the permittee may be subject to any remedies or penalties provided by law.
6. The permittee shall employ the best management practices consistent with the terms and conditions of this permit, to control storm water discharges and to prevent erosion and sedimentation and to otherwise prevent pollution of the wetlands or watercourses. No equipment or material including without limitation, fill, construction materials, or debris, shall be

deposited, placed, or stored in any wetland or watercourse or regulated area on or off site unless specifically authorized by this Permit.

7. In conducting and maintaining any activities authorized herein, the permittee may not cause pollution, impairment, alteration, or destruction of any inland wetlands or watercourses in the Town of Putnam, except as specifically authorized pursuant to this Permit. The permittee shall immediately inform the Commission of any problems involving wetlands or watercourses that have developed in the course of, or that are caused by, the authorized work and, at the direction of the Commission, the permittee shall immediately remediate any such damage in accordance with a schedule reviewed and approved by the Commission.
8. The permittee shall maintain sediment and erosion controls at the site, which will be established at the start of the activity, in such operable condition as to prevent the pollution of wetlands and watercourses. Said controls are to be inspected by the permittee for deficiencies at least once per week and immediately after any rainfall. The permittee shall correct any such deficiencies within 24 hours of said deficiencies being found. The permittee shall maintain such control measures until all areas of disturbed soil at the site are stabilized, at which time they shall be removed.
9. The permittee shall permit the Wetlands Agent to make periodic inspections of the property while the regulated activities are being performed in order to monitor compliance with the terms of this Permit.
10. If the activities authorized by this Permit also involve an activity or a project that requires approval by the Putnam Planning, and Zoning Commissions or the Putnam Zoning Board of Appeals, or any other state or federal permits or approvals, no work pursuant to the Permit may begin until such approval is obtained.

SPECIAL CONDITIONS AND TERMS:

- 1). Applicant shall sign and return INDEMNITY AND HOLD HARMLESS AGREEMENT to the Town of Putnam Land Use Dept.**
- 2). Applicant notify the Wetlands Agent 48 hours prior to the start of the for an erosion and sedimentation control inspection.**

By Agent, Putnam Inland Wetlands and Watercourses Commission

Bruce Fitzback, *Bruce Fitzback 5-1-2024*_____

This permit must be signed by the Permittee and the original returned to the Wetlands Agent

Acknowledged and Accepted By:_____ (Permittee)

Date:_____

Mailing Address:

Town of Putnam
200 School St.
Putnam, CT 06260

Contact information:

Bruce Fitzback, LS
Land Use Director
Town of Putnam
200 School Street
Putnam, CT 06260
Office: 860-963-6800, x 114
Email: Bruce.Fitzback@putnamct.us
Cell: 860-202-4127

Bruce Fitzback

From: Mike Cristina <safaritanz@gmail.com>
Sent: Friday, June 21, 2024 11:38 AM
To: Bruce Fitzback
Subject: Re: E&S - Wetlands Violation 465 School St

On Fri, Jun 21, 2024 at 11:20 AM Bruce Fitzback <Bruce.Fitzback@putnamct.us> wrote:

Hello Mr. Cristina,

Hi Bruce,

Yes, this has been a difficult process for everyone. Sorry you have to be bothered with this situation.

I inspected the silt fence; it was installed improperly.

The silt fence fabric was laid on top of leaves and ground litter and a shovel of earth was placed on the fabric, rather than being dug into the ground and back filled as required. See Attachment.

Your work on this site is not in compliance with Inland Wetlands Regulations and State Law.

As installed the silt fence is not an effective erosion & sediment control measure.

Rock and small boulders have rolled onto an adjoining property, and an access driveway.

The current excavation area is outside the approved limits.

The silt fence installation shall be brought into compliance immediately. Yes, I agree. It will be. Excavator guy says Monday.

You are at risk of having the wetlands permit being revoked and a Cease-and-Desist Order being issued, which will begin the legal process to rectify the matter.

In addition to the wetland issues:

The proposed drive excavation has cut some roots of a large pine, which may have created a hazardous situation by endangering adjacent property and buildings. You, telling the adjoining landowners that, if the tree falls that will be their property insurance companies' issue, is probably not the best way to handle this. **Agreed, but that was two years ago.** Do you or your excavator have insurance to cover the work being done? **Yes**

The Zoning Commission has a duty to protect the health, safety, and welfare of the public.

Please do one of the following: Remove the tree or Provide an Arborists report stating that the tree is not a threat to the adjoining properties.

I'm having the tree removed. ASAP. Roy's Tree Service.

Thanks, Mike

Thanks,

Bruce Fitzback, LLS

Land Use Director, ZEO

Town of Putnam

200 School Street

Putnam, CT 06260

Office: 860-963-6800, x 114

Email: Bruce.Fitzback@putnamct.us

From: Mike Cristina <safaritanz@gmail.com>

Sent: Thursday, June 13, 2024 1:51 PM

To: Bruce Fitzback <Bruce.Fitzback@putnamct.us>

Subject: E&S

Hi Bruce,

We decided on silt fence at 465 School St

Mike Cristina

Bruce Fitzback

From: Bruce Fitzback
Sent: Friday, June 21, 2024 11:20 AM
To: Mike Cristina
Cc: jimshouseoftheironhorse@yahoo.com; aaronperry_gusigns.com; Bruce Fitzback
Subject: RE: E&S - Wetlands Violation 465 School St
Attachments: Silt_fence_installation_detail_EPA.jpg

Hello Mr. Cristina,

I inspected the silt fence; it was installed improperly.

The silt fence fabric was laid on top of leaves and ground litter and a shovel of earth was placed on the fabric, rather than being dug into the ground and back filled as required. See Attachment.

Your work on this site is not in compliance with Inland Wetlands Regulations and State Law.

As installed the silt fence is not an effective erosion & sediment control measure.

Rock and small boulders have rolled onto an adjoining property, and an access driveway.

The current excavation area is outside the approved limits.

The silt fence installation shall be brought into compliance immediately.

You are at risk of having the wetlands permit being revoked and a Cease-and-Desist Order being issued, which will begin the legal process to rectify the matter.

In addition to the wetland issues:

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The Zoning Commission has a duty to protect the health, safety, and welfare of the public.

Please do one of the following: Remove the tree or Provide an Arborists report stating that the tree is not a threat to the adjoining properties.

Thanks,

Bruce Fitzback, LLS
Land Use Director, ZEO
Town of Putnam
200 School Street
Putnam, CT 06260
Office: 860-963-6800, x 114
Email: Bruce.Fitzback@putnamct.us

From: Mike Cristina <safaritanz@gmail.com>

Sent: Thursday, June 13, 2024 1:51 PM

To: Bruce Fitzback <Bruce.Fitzback@putnamct.us>

Subject: E&S

Hi Bruce,

We decided on silt fence at 465 School St

Mike Cristina

Bruce Fitzback

From: Mike Cristina <safaritanz@gmail.com>
Sent: Tuesday, June 25, 2024 12:44 PM
To: Bruce Fitzback
Subject: Re: E&S - Wetlands Violation 465 School St

Hi Bruce,

Hopefully the silt fence reworking will meet your requirements. (It certainly will work better than the silt fence installation on rt44 above the hospital.)

Also the tree is scheduled to come down on July 8th or 9th pending Roy Tree Service scheduling.

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From: Bruce Fitzback
Sent: Tuesday, June 25, 2024 2:19 PM
To: Mike Cristina
Subject: RE: E&S - Wetlands Violation 465 School St

Thanks Mike,

I'll check it out.

The construction on hospital hill is State of Conn, out of my jurisdiction.
I think it's one of those, do as I say not as I do situations.

Thanks again,

Bruce

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From: Mike Cristina <safaritanz@gmail.com>
Sent: Wednesday, July 3, 2024 11:23 AM
To: Bruce Fitzback
Subject: Re: E&S - Wetlands Violation 465 School St

Tree is gone.
Silt fence is re-installed.

Mike

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To: Mike Cristina
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Mike,
The silt fence has not been re-installed, and the full length of the silt fence is not installed.
The activity on this site will be brought under review by the Inland Wetlands and Watercourse Commission on July 10th, you should probably be that.
Potential action by the Commission will be considered.

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