

SOMERS CONSERVATION COMMISSION
INLAND WETLANDS & WATERCOURSES PERMIT APPLICATION
SOMERS, CONNECTICUT

PROPERTY OWNER: Estate of Jane Palmer - Frank Palmer Executor
ADDRESS: 7189 Cedarwood Circle
Boulder, CO 80301 TELEPHONE: [REDACTED]

APPLICANT: same as above
ADDRESS: _____
TELEPHONE: _____

APPLICANTS INTEREST IN PROPERTY: Estate Executor

SOIL SCIENTIST: John P. Ianni, M.S.
ADDRESS: P.O. Box 337
Storrs, CT 06268 TELEPHONE: [REDACTED]

PROPERTY LOCATION: 142 Turnpike Road 09 67 03
STREET ADDRESS MAP BLOCK LOT

DESCRIPTION AND PURPOSE OF PROPOSED ACTIVITY. Include dimensions of all structures, area of wetland impact, and distance of activity from wetland/watercourse: Proposed is a single family home on an existing .92-acre lot. There will be no loss of wetlands or watercourses as a result of the activity. Activity is limited to work within the 100-ft buffer zone of a wetland/stream.

IF DIRECT ALTERATION OF WETLAND/WATERCOURSE IS PROPOSED, DESCRIBE ALTERNATIVE CONSIDERED. Include proposed mitigation measures to minimize or eliminate alteration to wetlands or watercourses: No alteration of wetland/watercourse is proposed.

IS ANY PORTION OF THE PROPERTY LOCATED WITHIN 500 FEET OF A MUNICIPAL BOUNDARY? Circle one: YES ☒ NO

DOES THE PROPOSAL REQUIRE ANY OTHER TOWN COMMISSION(S) APPROVAL? No
IF YES, LIST COMMISSION(S): _____

I hereby certify that the above information and all work will be done according to approved plans. I further grant permission to the Conservation Commission and its agent(s) to talk and inspect the subject land and perform those tests necessary to properly review the application.

[Signature] 1-6-20 \$ 240.00
Owner signature* Date Fee Submitted

Conservation Commission (signature upon decision) Date/Decision

DATE PERMIT VALID: _____ RENEWED PERMIT DATES: _____

Date Received: 3/4/2020

65 Days 5/4/2020

Application No: 724

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION
Statewide Inland Wetlands & Watercourses Activity Reporting Form

In accordance with the requirements of Section 22a-39-14 of the Regulations of Connecticut State Agencies, this form is to be completed for each action taken by an inland wetlands agency established pursuant to Section 22a-42 of the Connecticut General Statutes. Use a separate form to report each action taken by the agency. It is recommended that this form be made part of the application package. Inland wetlands agencies are responsible for verifying that the information provided below is accurate and that it reflects the final action of the agency.

1. TOWN IN WHICH THE ACTION IS OCCURRING: Somers

Does this project cross municipal boundaries? Yes No X

If so, please list the other towns in which the action is occurring: _____

2. LOCATION: USGS Quad Map name: Ellington AND Number: 24

Attach a clean 8 1/2 " x 11" original scale photocopy of the USGS Quad Map with, *in red ink*, the boundary of the project site outlined (where possible) or the project site pinpointed with an arrow. *Do not* circle the "general vicinity" of the site. In the lower right-hand corner of each USGS Quad Map there is an identifying name, write the name from the corresponding map in the space provided above. Quad numbers are found on the Connecticut Town and Quadrangle Index Map (the directory to all USGS Quad Maps). Please provide the number in the space provided above. *Do not* attach a copy of the National Wetlands Inventory Map. *Do Not* attach a copy of the Connecticut Town and Quadrangle Index Map.

3. NAME OF APPLICANT, VIOLATOR OR PETITIONER: Estate of Jane Palmer - Frank Palmer, Executor

Supply the name of the person applying for a permit, petitioner for a map amendment or jurisdictional ruling, or recipient of the enforcement action.

4. NAME FOR PROJECT SITE: 142 Turnpike Road

Supply the name given to the project, or the name by which the project site is generally known.

Briefly describe the project: Construction of a single family home on an existing lot

5. ACTIVITY TYPE CODE: 12, _____, _____, _____

Provide the code or codes which best characterize the activity being reported. A maximum of 4 codes may be entered. For example, locating a driveway in a buffer/upland review area would be code "9" and code "12" (code "7" is not used). The construction of a house in the buffer/upland review area would most likely be codes "2" for excavation, "9" for driveway construction, and "12" for buffer/upland review area. Construction of a parking lot in a buffer/upland review area may be codes "1", "7", "10", and "12".

- 1 ... Filling
- 2 ... Excavation
- 3 ... Land Clearing / Grubbing (no other activity)
- 4 ... Stream Channelization
- 5 ... Stream Stabilization
- 6 ... Stream Clearance (removal of debris only)

- 7 Culverting (not for roadways)
8 Underground Utilities (no other activities)
9 Roadway / Driveway Construction
10 . . . Drainage Improvements
11 . . . Pond Dredging / Dam Construction
12 . . . Activity in Buffer / Upland Review Area

6. ACTIVITY PURPOSE CODE: B

Enter only *one* code letter which best characterizes the activity. ALL STATE AGENCY PROJECTS MUST ONLY CODE "N".*

- A ... Residential Improvement by Homeowner
B ... New Residential Development for Single Family Units
C ... New Residential Development for Multi-Family / Condos
D ... Commercial / Industrial Uses
E ... Municipal Project
F ... Utility Company Project
G ... Agriculture, Forestry or Conservation
H ... Wetland Restoration, Enhancement, Creation

- I ... Storm Water / Flood Control
- J ... Erosion / Sedimentation Control
- K ... Recreation / Boating / Navigation
- L ... Routine Maintenance
- M ... Map Amendment
- *N ... State Agency Project
- P ... Other

7. AREA OF WETLANDS AND/OR WATERCOURSES ALTERED:

Include areas that are altered or are proposed to be altered, temporary or permanent, for *all* agency permits, denials, amendments, and enforcement actions. Remember, these figures represent *only* the acreage altered, *not* the total acreage of wetlands or watercourses on the site. Figures should be provided by the applicant in the application. Provide all information in acreage including those areas less than one acre. To convert from square feet to acres, divide square feet by the number 43,560. Enter a zero if there is no alteration. Open water body altered refers to lakes, ponds or similar bodies of water that are filled or dredged. Stream alterations are to be reported in linear feet and include the total length of the river, brook, stream or other watercourse directly altered as a result of the action taken by the agency. Include any culverting (roadway, etc.), channel improvements, rip rap installation, relocation or dredging.

A. Wetland Area Altered: 0 ACRES
B. Open Water Body Area Altered: 0 ACRES
C. Stream Alteration: 0 LINEAR FEET

8. BUFFER / UPLAND REVIEW AREA ALTERED: .35 ACRES

Buffer or upland review areas are those areas adjacent to wetlands or watercourses where activities are regulated by the local agency. Report the acreage of upland review areas that are altered or are proposed to be altered, temporary or permanent, for *all* agency permits, denials, amendments, and enforcement actions; or for agent approval pursuant to 22a-42a(c)(2). For example, a 2 acre project site may have an activity occurring in 1 acre of buffer / upland review area and 0.25 acres of wetlands. Therefore, 0.25 acres will be reported on line 7A and 1 acre on line 8.

9. AREA OF WETLANDS AND/OR WATERCOURSES RESTORED, ENHANCED OR CREATED: 0 ACRES

Mitigation measures may be considered as a condition of issuing a permit for an activity. Report areas that are, or are proposed to be, restored, enhanced or created for *all* agency permits, denials, amendments, and enforcement actions. Restored or enhanced applies to previously existing wetlands or watercourses. For example, a wetland area filled two years ago is proposed to be restored by removing the existing fill. Created applies to an *upland* area which is converted into wetlands or watercourses.

FOR MUNICIPAL AGENCY USE ONLY

THE INLAND WETLANDS AGENCY MUST ENSURE THAT THE INFORMATION PROVIDED BELOW IS ACCURATE AND THAT IT REFLECTS THE FINAL ACTION OF THE AGENCY. COMPLETED FORMS FOR ACTIONS TAKEN DURING A CALENDAR MONTH SHALL BE MAILED BY THE AGENCY TO THE DEP NO LATER THAN THE 15TH DAY OF THE FOLLOWING MONTH.
MAIL REPORTING FORMS TO:

**Inland Water Resources Division, DEP,
79 Elm Street, Hartford, CT. 06106**

QUESTIONS MAY BE DIRECTED TO THE WETLANDS MANAGEMENT SECTION AT (800) 424-3019.

NAME / TITLE OF PERSON COMPLETING THIS FORM:

(PRINT) _____

(SIGNATURE) _____

DATE ACTION WAS TAKEN: MONTH _____ YEAR _____

WAS A PUBLIC HEARING HELD? Yes _____ No _____

ACTION TAKEN: ENTER LETTER _____

- A. PERMIT GRANTED BY AGENCY
- B. PERMIT DENIED BY AGENCY
- C. PERMIT EXTENDED/AMENDED BY AGENCY
- D. AGENT APPROVAL PURSUANT TO 22a-42a(c)(2)
- E. APPEAL OF AGENT APPROVAL PURSUANT TO 22a-42a(c)(2)
- F. MAP AMENDMENT (AMENDMENT TO THE OFFICIAL TOWN WETLANDS MAP, NOT A PROJECT SITE MAP)

FOR STATE USE ONLY

DATE RECEIVED: _____

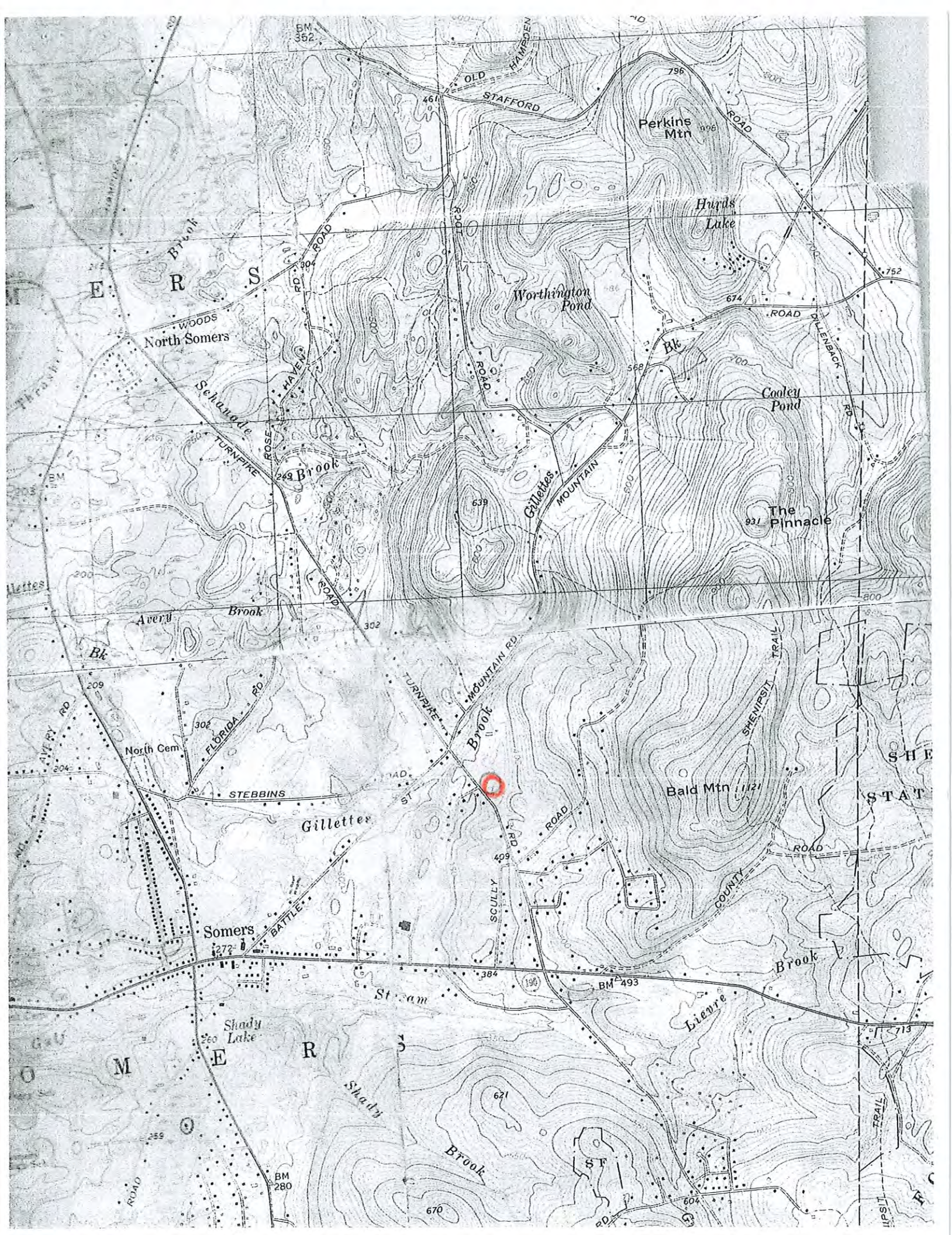
GIS CODE #: _____

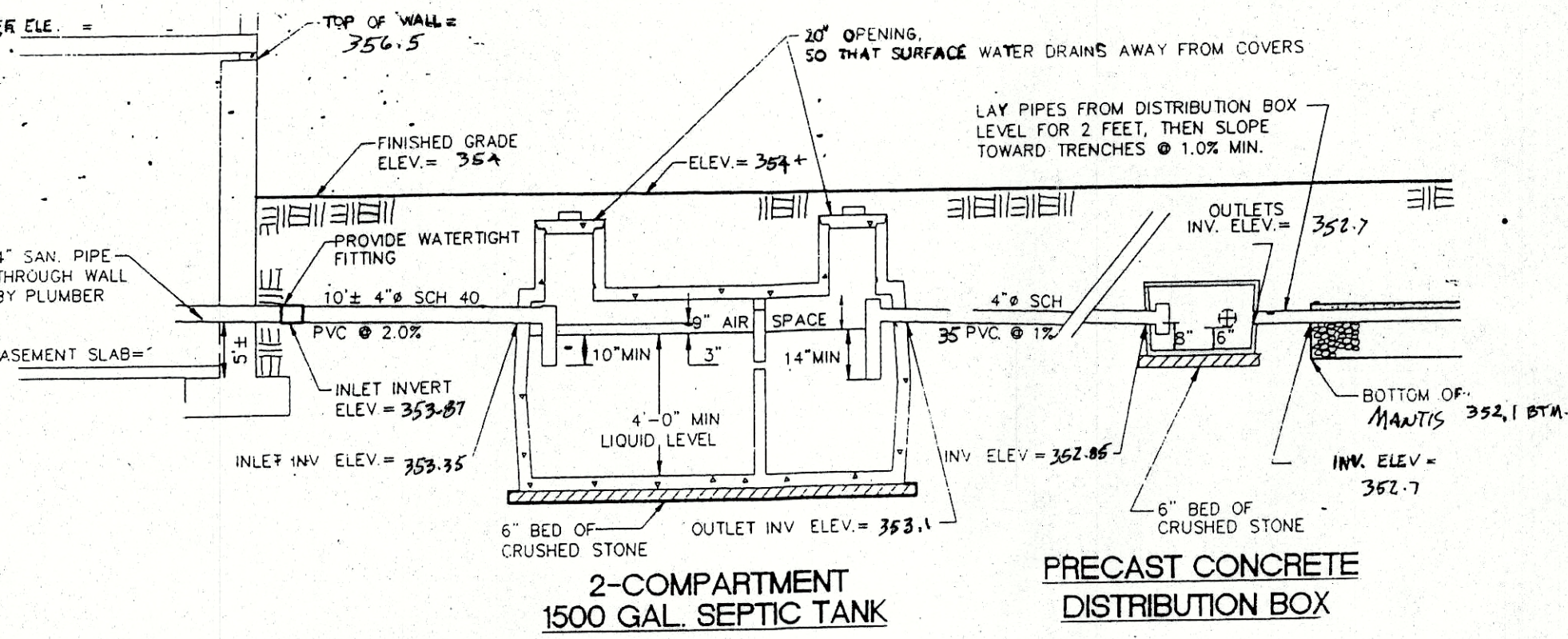
FILE # (SAME AS QUAD #): _____

FORM COMPLETED: YES _____ NO _____

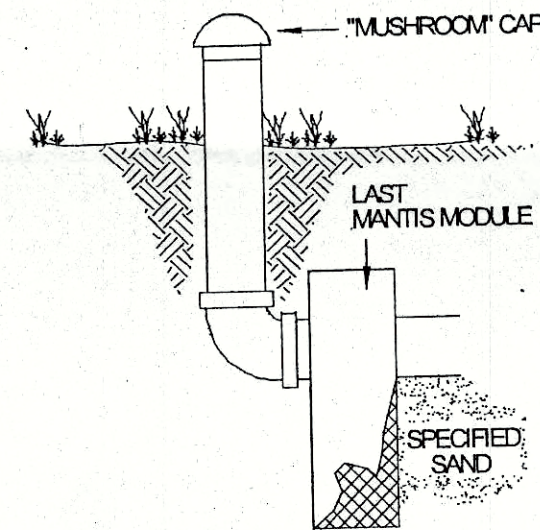
IF "NO", DATE MAILED TO TOWN: _____

DATE RETURNED TO DEP: _____

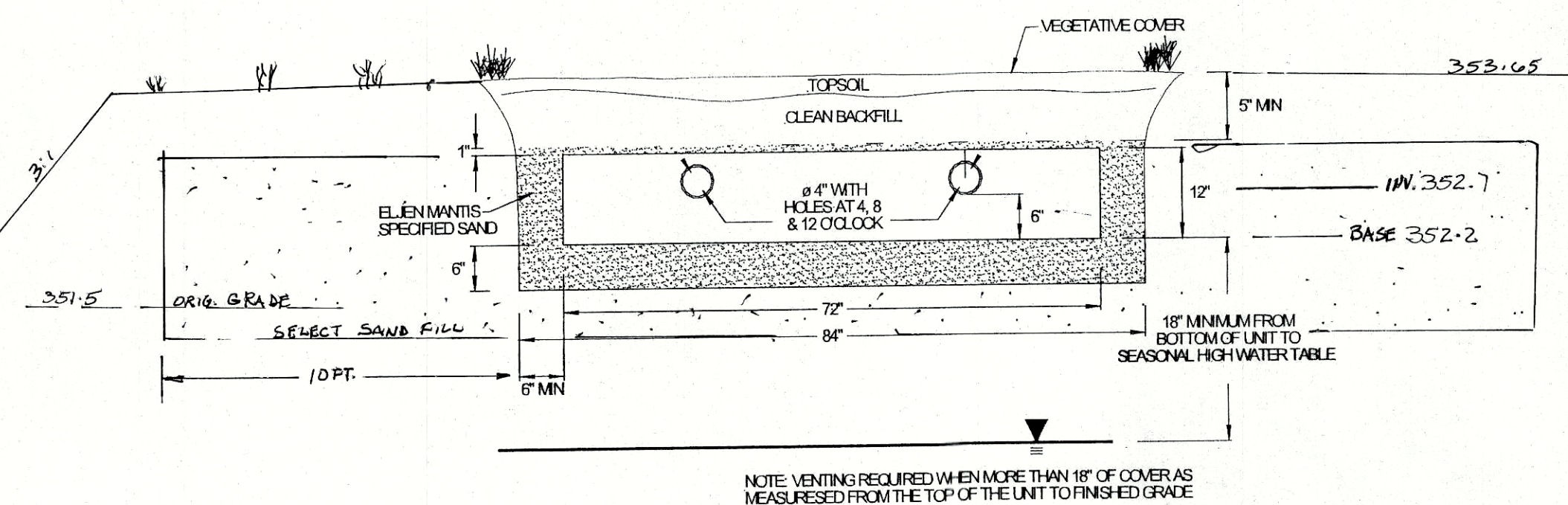




MANTIS 536-8 SERIES VENTING DIAGRAM



MANTIS 58 CROSS SECTION



NOTE: VENTING REQUIRED WHEN MORE THAN 18\"/>

EROSION CONTROL:

1. PRIOR TO EARTH MOVING, ESTABLISH SILT BARRIER.
2. DRIVEWAY ENTRANCE TO BE PROVIDED WITH A STONE TRACKING MAT FOR A MINIMUM LENGTH OF 30 FEET FROM ROAD EDGE.
3. DRIVEWAY TO BE CONSTRUCTED WITH A MINIMUM 12 inch DEPTH BASE OF BANK RUN GRAVEL PRIOR TO POURING FOUNDATION.
4. PERMANENT SEEDING OF DISTURBED SOIL SHALL FOLLOW WITHIN 2 WEEKS OF COMPLETED CONSTRUCTION. FOLLOW RECOMMENDATIONS IN CONNECTICUT EROSION CONTROL HANDBOOK.

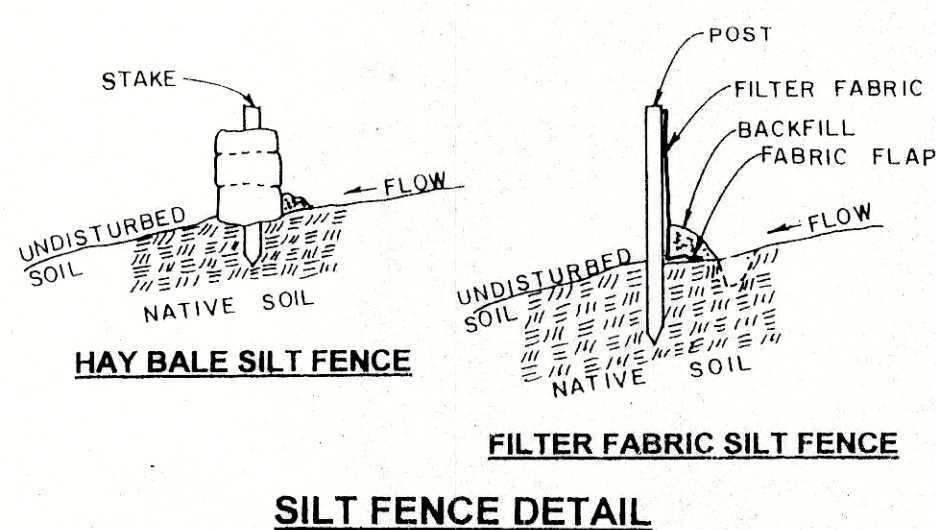
IF PERMANENT SEEDING CAN NOT BE COMPLETED DUE TO SEASON, PROVIDE MULCHING OR TEMPORARY SEEDING. SEE CONNECTICUT EROSION CONTROL HANDBOOK.

PERMANENT SEEDING			
Dates: April 15 - June 15 or Aug. 15 - Sept. 15			
No.	Seed Mixture	Lbs/Acre	Lbs./1000 sq. ft.
1.	Kentucky Bluegrass	20	.45
	Creeping Red Fescue	20	.45
	Perennial ryegrass	5	.10
	Total	45	1.00
Lawn Areas Regular mowing required			
2.	Creeping Red Fescue	20	.45
	Redtop	2	.05
	Tall Fescue or Smooth bromegrass	20	.45
	Total	42	.95
Naturalized area Offers Wildlife food and cover			
3.	Creeping Red Fescue	20	.45
	Bird's-foot trefoil with inoculant	8	.20
	Tall Fescue or Smooth bromegrass	20	.45
	Total	48	1.10
Mowing recommended Once a year after July			
4.	Bird's-foot trefoil with inoculant	8	.20
	Crownvetch with inoculant	15	.35
	Creeping Red Fescue, Tall Fescue or Smooth bromegrass	20	.45
	Total	43	1.00
Naturalized area steep banks No Mowing Required			

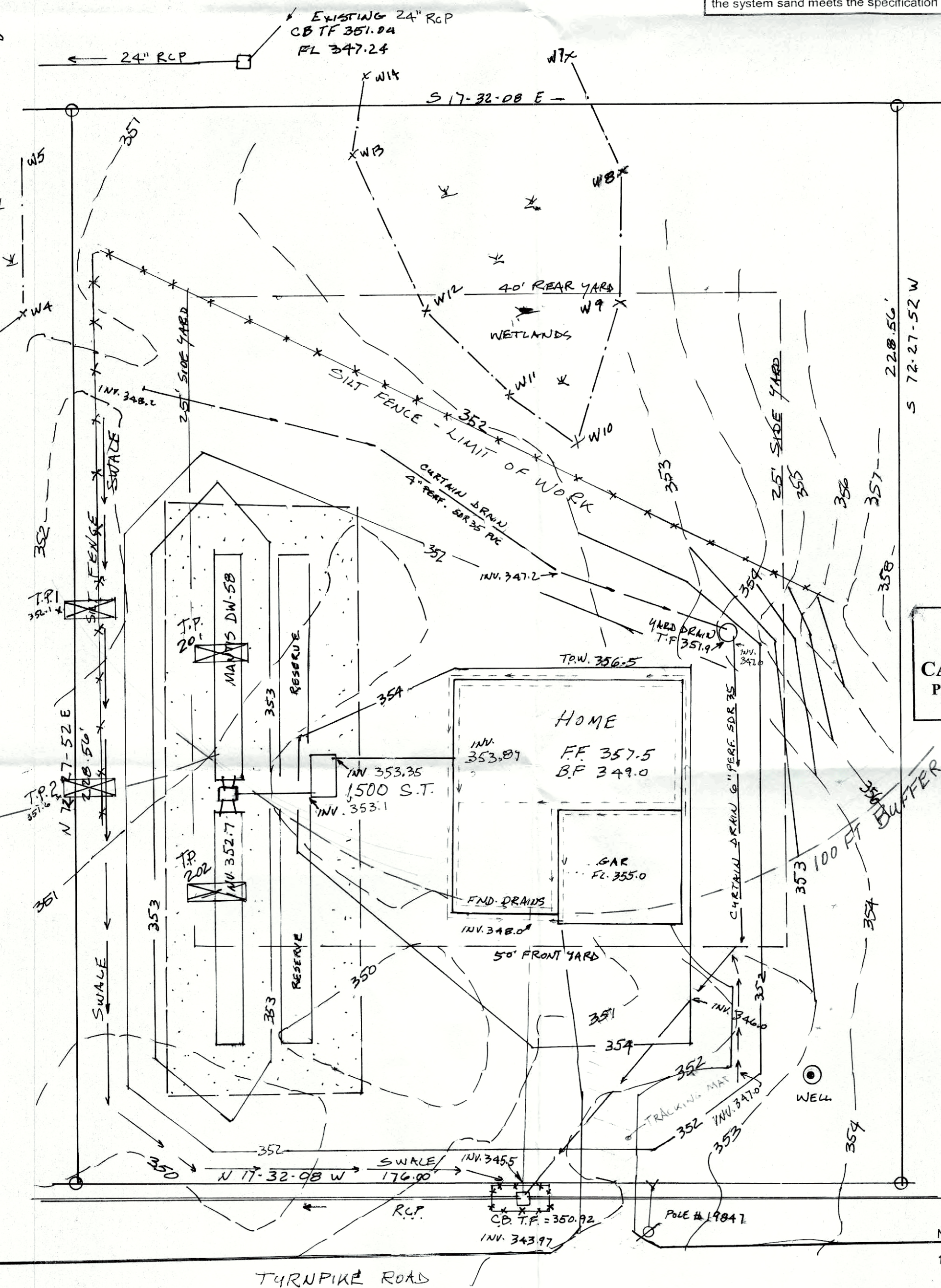
FERTILIZER: 10-10-10 300 lbs/acre or 7.5lbs/1000 sq. ft.
LIME: Lime 3 tons/acre or 135 lbs/1000 sq. ft.

TEMPORARY SEEDING RATES AND DATES

SPECIES	SEEDING RATES(pounds)		OPTIMUM SEEDING:	
	per acre	per 1000 sq. ft.	DATE	DEPTH
Annual ryegrass	40	1.0	3/1-4/15	0.5
			8/1-10/1	
Winter rye	120	3.0	4/15-6/15	1.0
			8/15-10/15	



SILT FENCE DETAIL



NOTIFY CONNECTICUT CALL BEFORE YOU DIG PRIOR TO ANY EXCAVATION 1-800-(922-4455)

The wetland soils on this site were identified in the field by using the criteria required by Ct. P.A. 72-155 as amended by P.A. 73-571, P.A. 87-338 and P.A. 87-533. The boundaries of these soils and identified watercourses are accurately represented on this plan.

John P. Janni
Certified Soil Scientist

NOTES:

1. THIS SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT". IT IS AN IMPROVEMENT LOCATION SURVEY BASED UPON A RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2.

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

Rachel Dearborn
RACHEL L. DEARBORN, LICENSED LAND SURVEYOR

2/9/20
DATE

L.S. 70295
LICENSE NO.

GROUND WATER MONITORING

DATE	AT T.P. #1	AT T.P. #2
March 17, 2015	23"	18"
March 24, 2015	25"	20"
April 1, 2015	17"	12"
April 8, 2015	23"	15"
April 14, 2015	24"	17"
April 21, 2015	32"	26"
February 11, 2020	52"	46"
February 18, 2020	55"	49"
February 28, 2020	52"	46"

OWNER: Estate of Jane Palmer
Frank Palmer, Executor
7189 Cedarwood Circle
Boulder, CO 80301

SYSTEM LOCATION: 142 Turnpike Road
Somers, CT 06071

BASIS OF DESIGN: Number of Bedrooms: 3
Garbage Grinder: No

SOIL TESTS: Performed By: Michael Mocko, R.S. (7-25-2019) & (10-6-2014)
Observed By: Steve Jacobs, R.S. - Town of Somers Health Agent

PERC DESIGN RATE: 17 min/in

TEST PIT #1 - (10-6-2014)

0 - 9" FSL 10YR4/2
9" - 16" Stony FSL 7.5YR5/6
16" - 27" Very Stony Firm Sandy loam 7.5YR6/2
27" - 68" Very Stony Firm Sandy Loam 7.5YR4/3
Estimated Seasonal High Groundwater @ 16" No Ledge Roots @ 18"

TEST PIT #2 - (10-6-2014)

0 - 8" FSL 10YR4/2
8" - 26" Stony FSL 7.5Y6/2
26" - 52" Very Stony Firm Sandy loam 7.5YR4/3
Estimated Seasonal High Groundwater @ 8" No Ledge Roots @ 13"

TEST PIT #201 - (7-25-2019)

0 - 7" Ap Topsoil
7" - 16" Bw 10YR5/3 Somewhat Friable, Very Stony, Fine
16" - 23" Bg 10YR6/2 Gleyed, Somewhat Friable, Sandy Loam
23" - 48" Cd 10YR4/4 Very Firm, Very Stony, Sandy Loam Till
Estimated Seasonal High Groundwater @ 10" No Ledge Roots @ 20"

TEST PIT #202 (7-25-2019)

0 - 10" Ap Topsoil
10" - 16" Bw 10YR5/3 Somewhat Friable, Very Stony, Fine
16" - 32" Bg 10YR6/2 Gleyed, Somewhat Friable, Stony Fine Sandy Loam
32" - 52" Cd 10YR4/4 Very Firm, Very Stony, Sandy Loam Till
Estimated Seasonal High Groundwater @ 13" No Ledge Roots @ 21"

CODE REQUIREMENTS:

Septic Tank: 1250 gal. Required. Provide 1500 gal. two compartment septic tank with outlet filter
Leaching Area: 675 sq. ft. Required.
Provided Leaching Area: 96 lin. ft. Mantis in Select Sand Fill - 96 Ft. Mantis Double-Wide 58 - Rated 11.6 SF/LF
1 Trench at 96 ft.
96 lin. ft. of Mantis Double Wide 58 x 11.6 SF per ft. = 1113.6 sq. ft. Provided. See Plan.
Minimum Spread Calculation with Sand Fill (use 24" to R): MLSS = HF x FF x PF (17 min/in perc)
66 x 1.5 x 1.5 = 148 ft. MLSS Required.
Use Radial Calculation: 106 + 106 + 6 + 6 = 224 ft. Provided.

SEPTIC SYSTEM CONSTRUCTION NOTES:

1. FILL FOR SEPTIC AREA. STRIP EXISTING SOIL UNDER PROPOSED LEACHING AREA TO A DEPTH OF AT LEAST 6" BELOW THE BOTTOM OF THE LEACHING TRENCHES. ALL ORGANIC SOIL SHALL BE REMOVED IN THE NEW LEACHING AREA. DO NOT DRIVE WHEELED VEHICLES OVER STRIPPED AREA OR OTHERWISE COMPACT THE SOIL. SELECT FILL SHALL CONSIST OF CLEAN MEDIUM SAND OR MEDIUM SAND AND GRAVEL. FILL SHALL BE PLACED AND COMPACTED IN 6" LIFTS. WHEELED VEHICLES SHALL NOT RUN OVER THE FILLED AREA UNTIL A MINIMUM OF 12" OF SAND FILL IS IN PLACE OVER THE NATIVE SOIL. NATIVE ON-SITE FILL MAY BE USED OUTSIDE OF THE LIMIT OF SELECT FILL SHOWN ON THE PLAN.
2. AVOID OPERATION OF ANY CONSTRUCTION EQUIPMENT ON TOP OF, OR OVER, THE INFILTRATOR UNITS. PLACE GRADE STAKES AT THE ENDS OF INFILTRATION LINES PRIOR TO BACKFILLING, AND LEAVE STAKES IN PLACE UNTIL GRASS COVER IS ESTABLISHED.
3. HOUSE AND SEPTIC SYSTEM SHALL BE STAKED FOR CONSTRUCTION BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

ATTACHMENT TO INLAND WETLANDS & WATERCOURSES PERMIT APPLICATION

SITE PLAN & SEPTIC SYSTEM DESIGN

142 TURNPIKE ROAD

SOMERS, CT

PREPARED FOR:

ESTATE OF JANE PALMER

FRANK PALMER, EXECUTOR

7189 CEDARWOOD CIRCLE, BOULDER, CO 80301

PREPARED BY:

MICHAEL MOCKO ENVIRONMENTAL CONSULTANT

36 HAMPDEN ROAD, STAFFORD SPRINGS, CT 06076

TELEPHONE: (860) 684-7205

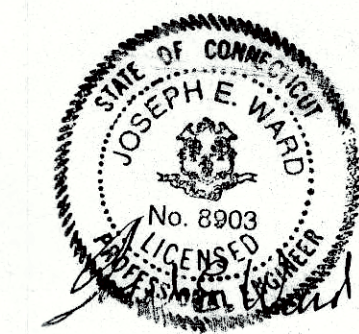
ENGINEER: JOSEPH E. WARD, P.E.

1200 CONVERSE STREET, LONGMEADOW, MA 01106

TELEPHONE: (413) 567-6560

SCALE: 1" = 20' DATE: DECEMBER 2019

REV. Feb. 29, 2020 PER TOWN COMMENTS.



TOWN OF SOMERS

Department of Health
600 Main St.
Somers, CT 06071
(860) 763-8216

FEE: \$150.00

DUE

REVIEW OF SITE PLAN FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM ON:

142 Turnpike Rd., SOMERS, CT

TO: Frank Palmer
7189 Cedarwood Cir.
Boulder, CO 80301

DESIGNER: J. Ward, P.E.
DATE OF PLAN: 12/19
REVISED TO: 2/29/20

REASON FOR SUBMISSION

- (☒) HIGH GROUNDWATER LEVEL (☒) RESTRICTIVE SOIL HORIZON
() SHALLOW BEDROCK (☒) NEW CONSTRUCTION () REPAIR
() EXCESSIVE SLOPE () OTHER _____

DESIGN SPECIFICATIONS

ESTIMATED FLOW: 3 bdrm DESIGN PERC. RATE: 11-20 MIN./IN.
SEPTIC TANK: 1500 GALS. LEACHING SYSTEM: 1113 SQ. FT.
FILL SYSTEM: + 2.0 FT. 96 L.F. Mantis Double-wide 58
CURTAIN/FOOTING DRAIN: BOTH OTHER: _____

ACTION:

- () APPROVAL
(☒) APPROVAL WITH MODIFICATIONS OR PROVISIONS NOTED
() APPROVAL DENIED - SITE UNSUITABLE FOR AS IT PRESENTLY EXISTS
() APPROVAL DENIED - INSUFFICIENT INFORMATION ON PLAN
() APPROVAL DENIED - REVISE AS NOTED

COMMENTS: 1. Approval of the Somers Conservation
Comm. required prior to issue of any permits
2. Perimeter Curtain Drain and Primary Leaching
Area Fill must be installed under supervision
of Design Engineer prior to issue of a Building
Permit.
3. \$150.00 Plan Review Fee must be paid prior to issue
of Building Permit.

COPIES TO:

- (☒) BUILDING OFFICIAL
() TOWN ENGINEER
() ZONING OFFICER
(☒) WETLANDS OFFICER
(☒) APPLICANT
(☒) ENGINEER
(☒) OTHER (M. Mucke)

SINCERELY,


STEVEN JACOBS
REGISTERED SANITARIAN

DATE 3/10/20

HIGHLAND SOILS, LLC

February 10, 2020

Rachel Dearborn L.S.
61 Lower Butcher Road
Ellington, CT 06029

**RE: 142 TURNPIKE ROAD
SOMERS, CT**

Dear Rachel:

The inland wetland boundaries on the above-referenced property were field delineated in 2014. The wetlands were field delineated in accordance with the standards of the National Cooperative Soil Survey and the definition of wetlands as found in the Connecticut General Statutes, Chapter 440, Section 22A-38. A spade and auger were used to examine multiple soil profiles on the property. I have reviewed the plans prepared by your office and have found the representation of the field delineated wetlands to be substantially correct.

If you have any questions, or require additional information, please call me at (860) 742-5868.

Very truly yours,

John P. Ianni
John P. Ianni, M.S.
Professional Soil Scientist