HOUSE ADDITION

JEFFERY & CLAUDIA KEENAN

127 WASHINEE HEIGHTS ROAD SALISBURY, CONNECTICUT

JANUARY 28, 2025

REVISED: FEBRUARY 11, 2025 FEBRUARY 17, 2025 MARCH 12, 2025

58-19 58-14 58-15 58-16	58-10
LAKE WASHINING	

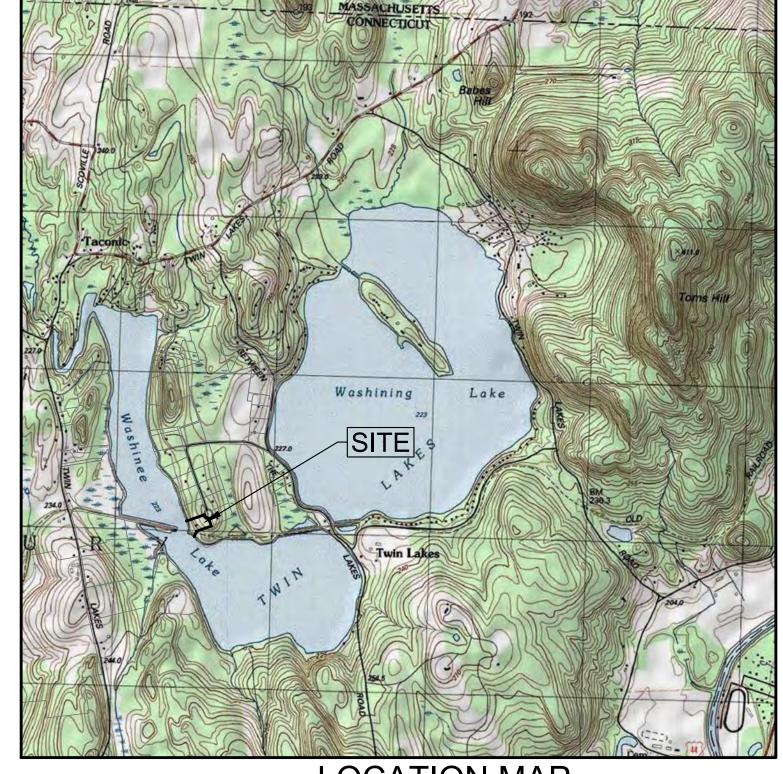
ABUTTERS MAP O 200 400 Feet SCALE: 1"= 200'

APPLICANT

GREAT FALLS CONSTRUCTION 117 Dublin Road Falls Village, CT 06031 Ph. (860) 824-7128

OWNER

127 WHR LLC 23721 NE 48th Avenue #H7 Okeechobee, FL 34272 Ph. (404) 695-6777



LOCATION MAP

SCALE: 1"= 2000'

LIST OF DRAWINGS

COVER

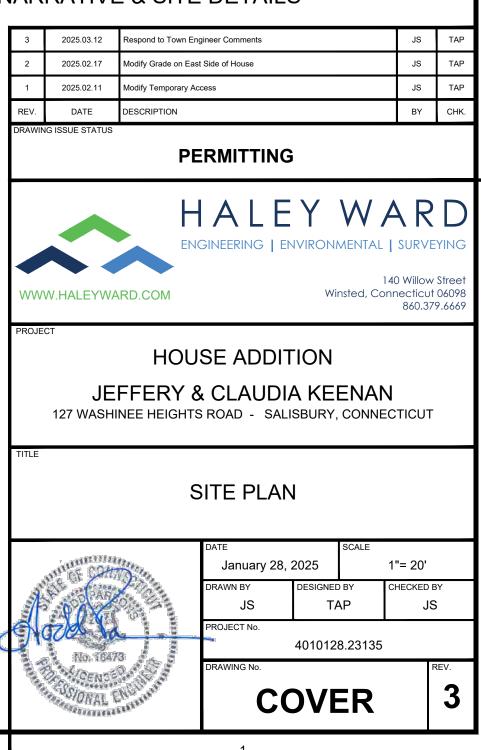
C-1 EXISTING CONDITIONS

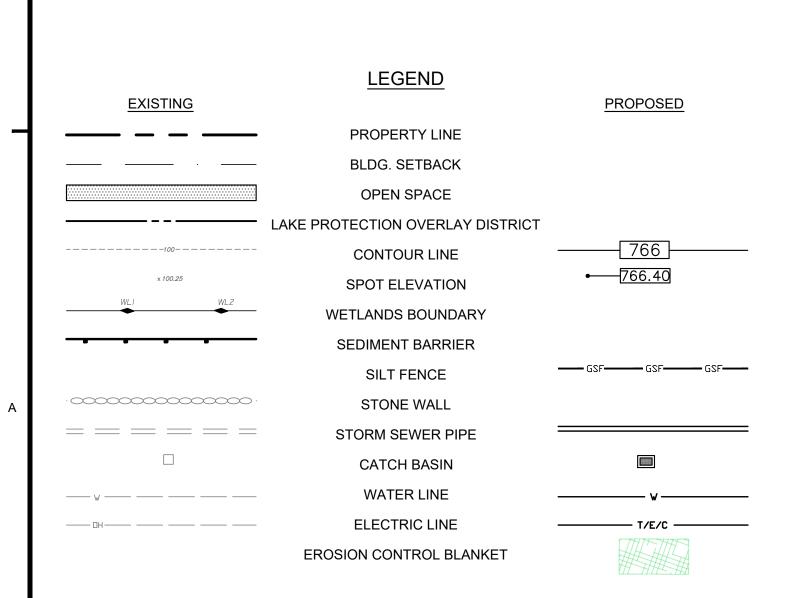
C-2 SITE PLAN

-3 SEPTIC SYSTEM DETAILS

-4 EROSION CONTROL PLAN

C-5 EROSION CONTROL NARRATIVE & SITE DETAILS





List of abutters as of January 20, 2025

RONCHI DONALD M SURV & ROSS JANE A SURV

Lake Washining

129 WHR LLC

HARRIS ADELAIDE

SWARTZ JESSICA B SURV & DAVIS ASA C SURV

SMITHWICK RUTH ANN

SOUTH

EAST

PO BOX 643405

VERO BEACH, FL 32964

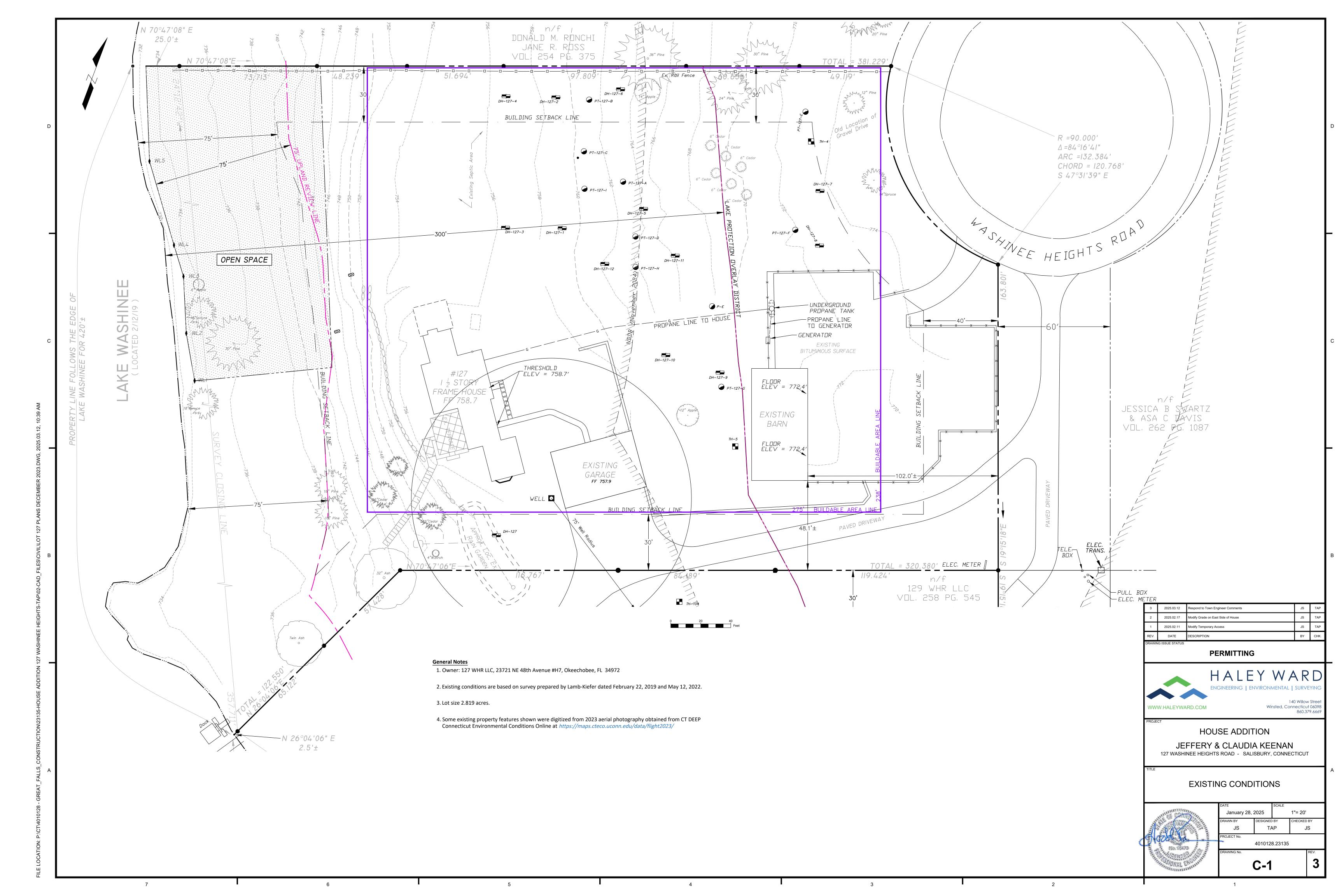
23721 NE 48TH AVE #H7

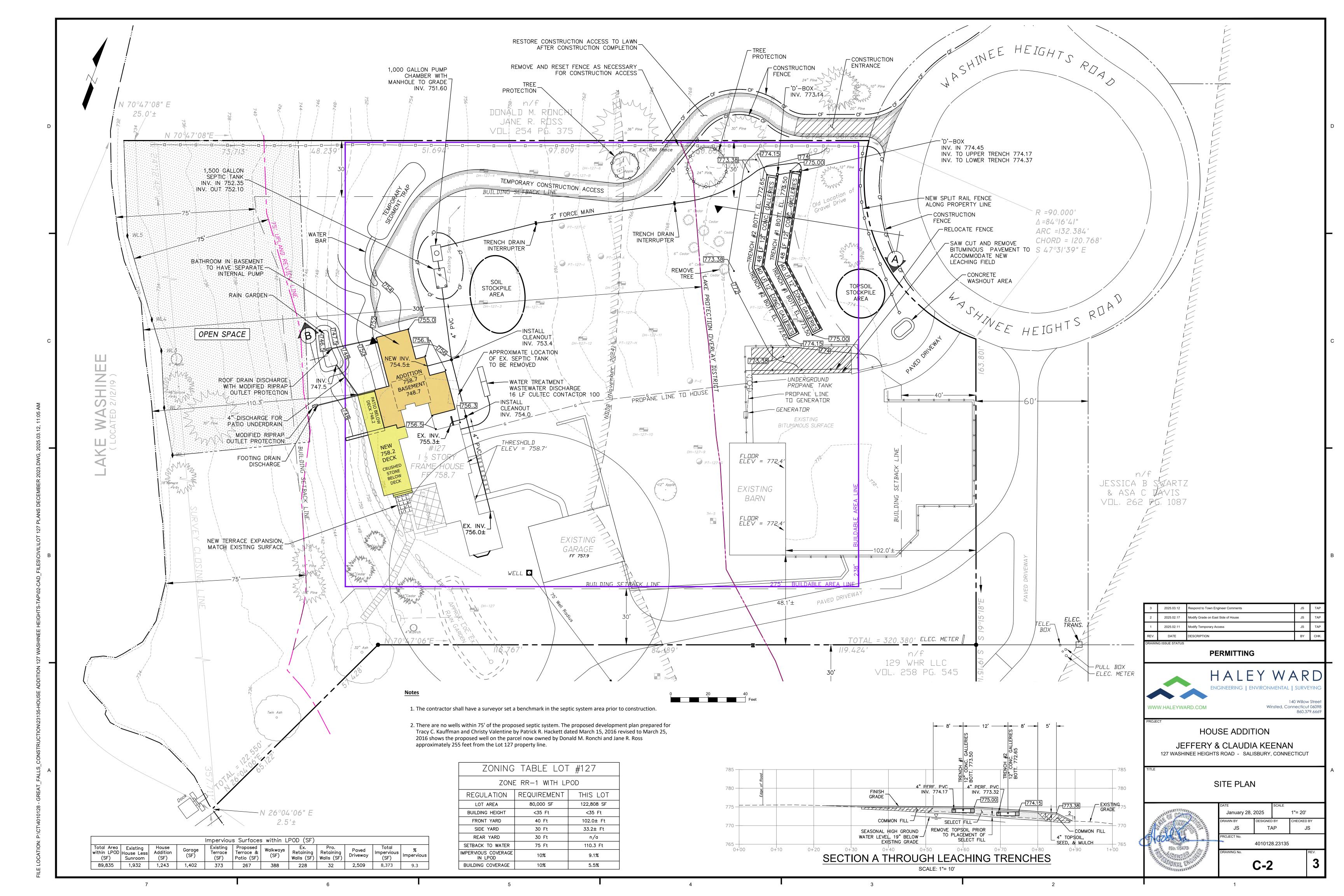
OKEECHOBEE, CT 34972

PO BOX 629

SALISBURY, CT 06068 128 WASHINEE HEIGHTS RD

SALISBURY, CT 06068





SITE PREPARATION

Clear and grub areas for the addition and leaching field. Dispose of stumps per local, State, and Federal law. Remove brush and surface stones from the area. The Contractor shall exercise extreme care in removing surface boulders and topsoil, so as not to disturb the leaching field area. Stockpile topsoil in a convenient area for re-use. Place erosion control measures as shown on the plan.

SELECT FILL

Scarify the primary leaching area prior to placement of fill. Fill material shall be approved by the Sanitarian prior to installation. Compact fill in six inch lifts. Field density shall meet at least 90% Standard Proctor Density. Extend fill a minimum of 10 feet beyond the last leaching trench before tapering off, as shown by the proposed contours and cross-section including five feet of select fill and five feet of common fill. Provide an in-place gradation test prior to installation of leaching system as required by the Torrington Area Health District policy.

Select fill shall conform to the specifications outlined in Section VIII.A of the "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems".

Select fill shall be comprised of clean sand and gravel, free from organic and foreign substances.

The fill shall meet the following specifications:

The fill shall not contain any material larger than the Three (3) inch sieve. Up to 45% of the dry weight of the representative sample may be retained on the #4 sieve (Gravel portion of

Gradation on Fill Less Gravel

J.S.Sieve	Percent Passin	Percent Passing (by Weight)			
<u>Size</u>	Wet Sieve	Dry Sieve			
#4	100	100			
#10	70-100	70-100			
#40	0-50% *	10-75			
#100	0-20	0-5			
#200	0-5	0-2.5			

*Percent passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%.

SEPTIC TANK AND EFFLUENT FILTER

The septic tank shall be a 1,500 gallon two compartment precast concrete septic tank meeting all the latest specifications set forth in Section V of "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems", with particular reference to baffles, lids, compartments, manhole access, non-by-pass effluent filter, and concrete. The tank shall be properly baffled at the inlet and outlet, and shall be watertight with joints sealed with butyl sealant or equal. The tank, including riser and cover assembly, shall be constructed and installed to support AASHTO HS-10 design loading.

Inlets, outlets, and risers of the septic tank shall be sealed with a code-compliant watertight seal to prevent surface or ground water from entering the tank.

Grade ground surface so surface water will drain away from the tank access. Septic tanks in paved areas shall have risers extended to grade.

The tank shall be equipped with an approved non-bypass effluent filter meeting the latest specifications of Section V of "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems". The filter shall be selected from Appendix B. The filter shall have a design flow of at least 750 gallons per day.

PUMP SYSTEM

The pump chamber shall be a Richards 1,000 gallon precast concrete unit meeting all the latest specification set forth in Section VI-c of the "CONNECTICUT PUBLIC HEALTH CODE Regulations and Technical Standards for Subsurface Sewage Disposal Systems". The chamber used must be watertight. Seal joints with butyl sealant or equal. The chamber, including riser and cover assembly, shall be constructed and installed to support AASHTO HS-10 design loading.

After the pump chamber has been positioned and leveled, bank run gravel shall be placed in 6" lifts, and thoroughly compacted to provide soil friction on the tank sides.

Inlets, outlets, and risers of the pump chamber shall be mortared or sealed with an appropriate seal or gasket to prevent surface or ground water from entering.

Grade ground surface so surface water will drain away from the chamber access.

One-foot minimum of fill shall cover the tank. A manhole to grade shall be installed. The manhole cover must weigh a minimum of 59 pounds or be equipped with a locking device. Opening shall be a minimum of 24 inches inside diameter. A secondary safety device shall also be installed.

Pump shall be a Liberty 280 Series Effluent Pump or approved equal.

Contractor shall adjust pump turn-on and turn-off levels to pump 150 gallons per cycle.

Pump shall be wired so that alarm is on a separate circuit.

The force main shall be a coiled 1.5-inch diameter polyethylene flexible pressure pipe (180 psi minimum) as specified in the Table 2-B of the State Health Code. No joints are allowed within 75 feet of a well or within 25 feet of an open watercourse or groundwater drains.

Provide adequate protection from freezing for all force mains as shown on the plans.

The sewer pipe between the house and septic tank shall be four inch diameter conforming to Table No. 2 of the "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems". Solvent weld couplings/fittings conforming to the State of Connecticut Health Code may be used. The slope of this sewer shall be a minimum of 0.25 inches per foot. The inverts and pipe length shown on the plan set the pipe slope on this project. The pipe shall be laid in a straight line on an even grade. The pipe shall be mortared or sealed with an appropriate seal or gasket at the house and tank locations to prevent surface and groundwater penetration.

The pipe leading from the septic tank to the leaching field and the pipe between distribution boxes shall be four inch diameter conforming to Table No. 2-A of the "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems". The pipe shall be laid in a straight line on an even grade. The slope of this pipe shall be a minimum of 0.125 inches per foot. The inverts and pipe length set the pipe slope on this project.

DISTRIBUTION BOXES

Distribution boxes shall be precast concrete. All distribution boxes shall be set on a 12-inch level layer of crushed stone to help prevent heaving and settling. Orient D-box to provide high-level overflow as shown by inverts on this plan. For high-level overflow, set outgoing pipe to next trench in the upper three inches of the leaching structure.

Inlets and outlets of D-box shall be mortared or sealed with an appropriate seal or gasket to prevent surface or

LEACHING FIELD

The Public Health Department may require a licensed land surveyor stake out the leaching field. The contractor shall check with the local Health Authority and determine if this leaching field requires stake out by a licensed land

The bottom of each trench and distribution pipe shall be level throughout. Deviation from level shall not exceed one

Stone used in the leaching field shall be stone aggregate as defined in the "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems" in Section I.S and Section VIII.A.

Distribution pipe within the leaching area shall be four inch diameter conforming to Table No. 2-A of the "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems". The pipe shall be set in a straight line and the invert of each pipe shall be level and set to the elevations shown on the plan.

Precast concrete leaching chambers shall be 12-inch high or equal. The Chambers shall be constructed and installed to support AASHTO HS-10 design loading. Distribution pipe must have a minimum diameter of four inches. Only No. 4 Stone shall be used for leaching galleries.

Once the trenches have been filled with stone to required levels, a layer of filter fabric must cover the entire width and length of each trench. Filter Fabric shall be as specified in the "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems" in Appendix C.

LOAM, SEED AND MULCH

Immediately following rough grading activities, bring all disturbed areas to final grade with a minimum of four inches of screened topsoil (after compaction). Topsoil shall be free of large stones and roots and other deleterious materials such as wood, pieces of pavement, metals, trash, etc. and shall be of such quality as to readily promote germination of grass seed.

Prior to seeding, submit soil samples to a qualified soils laboratory for recommendations on liming and fertilizer. Follow the laboratory recommendations. Seed area in accordance with seed manufacturer's recommendations.

The installer shall cover the entire septic system as indicated in these specifications and plans within two (2) working days following the local Health Department's final inspection and approval and prior to a heavy precipitation event.

MISCELLANEOUS

Water restrictive measures should be implemented (i.e. water saver toilet and shower head, etc.).

Due to the wet nature of the soil and extensive surface preparation required, the septic system should be constructed only during the dry part of the season.

Maintain 5-foot separation between any portion of the sewage disposal system and any subsurface utility service trench (gas, electric, cable, phone). Utility trenches within 25 feet of the system shall not be backfilled with free-draining material.

Maintain 10-foot separation between any portion of the sewage disposal system and any potable water or irrigation line under pressure. Water line trenches within 25 feet of the system shall not be backfilled with free-draining

Do not tie roof gutters into footing drain discharge piping

Do not discharge wastewater that is not sewage, as defined in Public Health Code Section 19-13-B103b(1) into the subsurface sewage disposal system except for minor quantities (>30 gpd) specifically authorized by the Commissioner of Public Health. Refer to Section X of the "CONNECTICUT PUBLIC HEALTH CODE On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems"

The installer is responsible to install the subsurface sewage disposal system in accordance with the plan approved by the local director of health. The installer shall prepare a record plan of the system and submit the plan to the local

The installer shall contact the Engineer at least three days prior to any work related to the system installation to arrange inspections of the system.

Contractor shall obtain a copy of the Design Approval from the local health department and comply with any conditions of approval.

BASIS OF DESIGN:

Number of Bedrooms:	Five	
Garbage Grinder:	No	
Large Tub:	No	
Septic Tank:	1,500 1,500	Gallon (Required) Gallon (Provided)
Actual Percolation Rate:	20 - 40	Min./Inch
Design Percolation Rate:	20.1 - 30.0	Min./Inch (in sand fill)
Depth to Restrictive Layer:		S Category 2. Depth of restrictive layer ranges from 19 24 inches. System will be 18 inches above groundwater.

System is 12 inches high. RS = (A+B)/2 = ((18"+12") + 19")/2 = 24.5". Use 22.1 to 26.0 range. Hydraulic Gradient: 6.1 - 8.0 %

Hydraulic Factor: 2.0 Flow Factor: 1.5

Percolation Factor:

 $30 \times 2.0 \times 1.5 = 90.0$ feet MLSS Required: MLSS Provided: 88 feet of gallery plus one foot of stone on each end = 90 feet

Leaching Area Required: 1,000 SF (2) rows of 12-inch gallery 88 feet long each Primary System: (2)x 5.9 SF/LF x 88 LF = 1,038.4 SF

Reserve Area: B100a (no reserve required) Design Depth to Seasonal High Groundwater Table: 19 inches

Design Depth to Ledge: None found

Test holes observed by J Stenman Wednesday, March 27, 2019 Lot #127 DH-127

0 - 18 Topsoil Roots: 18 - 33 Brown Fine Sandy Loam Mottling: 33 - 50 Light Brown Silty Sandy Loam with Lime Stone Ex. Water: Dry Ledge: None Found

Test holes observed by J Stenman, LEI and T Stansfield, TAHD Wednesday, May 01, 2019

Lot #127

H-12	27-	1			
0	-	5	Topsoil and Sod	Roots:	16"
5	2	16	Brown Fine Sandy Loam	Mottling:	20"
16	-	61	Light Brown Silty Sandy Loam with Lime Stone	Ex. Water:	32"
61	-	78	Dark Brown loose decomposed rock till	Ledge:	None Found

DH-127-	2				
0 -	5	Topsoil and Sod	Roots:	16"	
5 -	28	Brown Fine Sandy Loam	Mottling:	21"	
28 -	95	Light Brown Silty Sandy Loam with Lime Stone	Ex. Water:	45"	

None Found

0 -	5 Topsoil and Sod	Roots:	15"
5 -	30 Light Brown Silty Sandy Loam with Lime Stone	Mottling:	30"
30 -	78 Grey Brown Silty Till with Lime Stone	Ex. Water:	57"
		Ledge:	None Found

DH-127-4 0 - 45 Bury Pit - Un-suitable

DH-1.	27-	2			
0	-	5	Topsoil and Sod	Roots:	10"
5	-	24	Light Brown Silty Sandy Loam with Lime Stone	Mottling:	24"
24	2	60	Grey Brown Silty Till with Lime Stone	Ex. Water:	Dry
				Ledge:	None Found

•	D-1	41-	v	
	0	2	5	Topsoil and Sod
	5	2	22	Light Brown Silty Sandy Loam
	22	-	60	Grey Brown Silty Till with Lime Stone

Te	est hol	es observed by J Stenman			
M	onday	, May 06, 2019			
D	H-127	<u>'-7</u>			
	0 -	8 Topsoil and Sod	Roots:	16"	
	8 -	24 Light Brown Silty Sandy Loam	Mottling:	24"	
	24 -	68 Light Brown Silty Till with Lime Stone	Ex. Water:	Dry	

Roots:

Mottling:

Ledge:

Ledge:

Ledge:

Ex. Water: 57"

None Found

None Found

Ex. Water: 50"

22"

None Found

None Found

Test holes observed by J Stenman, LEI and C Weber, TAHD

DH-127-8

0 -	5 Topsoil and Sod	Roots:	25"
5 -	19 Light Brown Silty Sandy Loam	Mottling:	19
19 -	69 Light Brown Silty Till with Lime Stone	Ex. Water:	Dry
		Ledge:	None Foun

Test holes observed by J Stenman, LEI and C Weber, TAHD

Wednesday, August 23, 2023 DH-127-9

0 - 9 Topsoil and Sod

9 -	18 Sand Fill	Mottling:	25"
18 -	30 Brown Fine Sandy Loam Sone Silt	Ex. Water:	69"
30 -	75 Light Brown Sandy Silty Till with Lime Stone	Ledge:	None Found
DH-127	-10		
0 -	10 Topsoil and Sod	Roots:	10"

DH-127-11

TRENCH

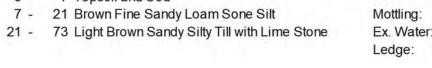
WIDTH

SECTION

SEWER PIPE

0 - 8 Topsoil and Sod Roots: 8 - 74 Light Brown Sandy Silty Till with Lime Stone Mottling: Ex. Water: 59"

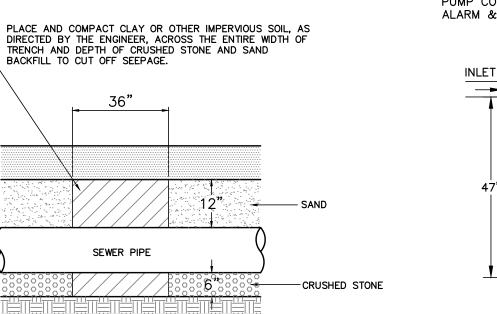
DH-127-12 0 - 7 Topsoil and Sod 7 - 21 Brown Fine Sandy Loam Sone Silt



TRENCH AND DEPTH OF CRUSHED STONE AND SAND BACKFILL TO CUT OFF SEEPAGE.

SEWER PIPE

PROFILE



Roots: COVER (MUST WEIGH 59 POUNDS -20" OR HAVE A LOCKING DEVICE) Ex. Water: 56" 24"ø MIN. WATERTIGHT — Ledge: None Found ACCESS RISER TO GRADE FINISH GRADE -UNDERGROUND CABLES TO PUMP CONTROL PANEL, ALARM & CIRCUIT BREAKER

·¼" WEEP HOLE IN BOTTOM OF FORCE MAIN " POLYETHYLENE FLEXIBLE PLASTIC FORCE LINE. POSITIVE DRAINING LINE BACK INTO PUMP STATION. 4' MIN. GUIDE RAIL-TO D-BOX COVER. 26" MIN. EMERGENCY STORAGE 600 GALLONS - CHECK - RICHARDS 1,000 GALLON PRECAST CONC. PUMP CHAMBER 749.62 150 GALLONS LIBERTY 280 EFFLUENT PUMP OR APPROVED EQUAL ON 2" HIGH BLOCKS PUMP OFF *CONFIRM DEPTH OF IMMERSION WITH PUMP MANUFACTURER 2" BLOCK —

PUMP CHAMBER DETAIL

Datum Depth: 12 inches Depth Rate Time Depth 12:46:00 13:45:00 2 1/2 12:56:00 (min/in) 2 1/8 13:06:00 2 1/2 13:55:00 2 7/8 26.7 13:16:00 2 1/2 14:05:00 3 1/8 40.0 13:26:00 2 1/2 14:25:00 3 1/2 53.3 13:36:00 2 3/4 14:45:00 3 3/4 80.0 13:46:00 Max rate = >40.0 minutes per inch PT-127E Date: 05/06/2019 Max rate = 80.0 minutes per inch All percs presoaked prior to test Total Depth: 24 inches PT-127B Date: 05/01/2019 Datum Depth: 24 inches All percs presoaked prior to test Total Depth: 19 inches Time Depth 12:47:00 Datum Depth: 12 inches (min/in) 12:57:00 7 1/2 13:07:00 Time Depth 13:17:00 8 1/2 20.0 13:46:00 (min/in) 13:27:00 20.0 13:56:00 1 3/8 26.7 13:37:00 9 1/2 20.0 14:06:00 1 5/8 40.0 13:47:00 14:26:00 2 1/4 32.0 Max rate = 20.0 minutes per inch 40.0 14:46:00 2 3/4 PT-127F Date: 05/22/2019 All percs presoaked prior to test Max rate = 40.0 minutes per inch Total Depth: 17 inches PT-127C Date: 05/06/2019 Datum Depth: 17 inches All percs presoaked prior to test Total Depth: 19 inches Depth Rate Datum Depth: 19 inches 12:00:00 1 1/2 (min/in) 12:10:00 1 3/4 40.0 Rate 12:20:00 12:45:00 3 1/4 12:30:00 2 1/4 12:55:00 3 5/8 12:50:00 2 5/8 53.3 13:05:00 26.7 13:00:00 2 7/8 40.0 13:15:00 4 1/2 20.0 13:10:00 3 1/8 40.0 13:25:00 20.0 13:35:00 20.0 Max rate = 40.0 minutes per inch 13:45:00 20.0 Max rate = 20.0 minutes per inch SOIL TEST PIT DATA BY OTHERS

Perc Test 127G

11:15:00

11:25:00

11:35:00

11:45:00

11:55:00

12:05:00

12:15:00

12:25:00

11:16:00

11:26:00

11:36:00

11:46:00

11:56:00

12:06:00

12:16:00

12:26:00

11:17:00

11:27:00

11:37:00

11:47:00

11:57:00

12:07:00

12:17:00

12:27:00

Max rate = 80.0 minutes per inch

INSULATION (THREE SIDES)

HDPE FORCE

2025.03.12

2025.02.17

2025.02.11

DATE

6" MIN.

SUITABLE

BACKFILL

MINIMUM

Perc Test 1271

Max rate = 160.0 minutes per inch

All percs presoaked prior to test

Total Depth: 19 inches

Datum Depth: 7 inches

Perc Test 127H

Max rate = 80.0 minutes per inch

All percs presoaked prior to test

Total Depth: 21 inches

Datum Depth: 9 inches

Date: 05/06/2019

All percs presoaked prior to test

Total Depth: 17 inches

Datum Depth: 17 inches

All percs presoaked prior to test

Total Depth: 25 inches

11

13 1/2

15 1/2

15 3/4

16 1/8

9 1/4

9 1/2

9 9/16

9 5/8

9 11/16

9 3/4

3 1/2

3 5/8

4 1/4

3 3/8

4 1/2

4 3/4

4 7/8

SUITABLE

BACKFILL

12" MINIMUM

ESTABLISH TURF —

Datum Depth: 13 inches

Date: 08/23/2023

Rate

(min/in)

10.0

6.7

20.0

40.0

40.0

80.0

Rate

(min/in)

40.0

40.0

160.0

160.0

160.0

160.0

40.0

Rate

(min/in)

80.0

26.7

40.0

-11.4

8.9

40.0

80.0

FORCE MAIN TRENCH

NOT TO SCALE

- WARNING TAPE

BEDROCK

24"

FORCE MAIN TRENCH

WHERE LESS THAN 48" DEEP

Respond to Town Engineer Comments

Modify Grade on East Side of House

Modify Temporary Access

\ AS REQUIRED

AS REQUIRED

48" MIN.

FINISHED

860.379.6669

<u>GR</u>ADE

Date: 08/23/2023

Date: 08/23/2023

TEST HOLE INFORMATION Test holes observed by P.R. Hackett, P.E. Wednesday, June 17, 2015	Perc Test E All percs presoaked Total Dept	prior to test h: 21 inches	: 07/30/2015	SUITA BACK HDPE FORCE MAIN
127 Washinee Heights Road			Perc	<u>*</u>
Test Hole 4	<u>Time</u> 0:08:44	Depth 4 1/4	Rate (min/in)	6" MIN.
0 - 6 Topsoil	0:13:42	4 15/16	7.2	
6 - 24 Yellow-brown silty-sandy loam	0:22:45	5 15/16	9.1	
24 - 84 Medium compactoOlive-grey silty-sandy till	0:33:04	6 11/16	13.8	
No Ledge, Water entering 45", Mottles at 24", Roots fine	0:43:01	7 3/8	14.5	
at 36"	0:53:29	7 15/16	18.6	
Test Hole 5	1:06:13 Max rate = 18.6 minu	8 5/8	18.5	FO
10 - 23 Yellow-brown silty-sandy loam	maxiate 10.0 mine	neo per morr		
23 - 84 Medium compactoOlive-grey silty-sandy till			2" PO	LYSTYRENE FOAM BOARD _

23 - 84 Medium compactoOlive-grey silty-sandy till 84 - 96 Grey-brown well-graded sand & stone

SOIL TEST PIT DATA BY LEI

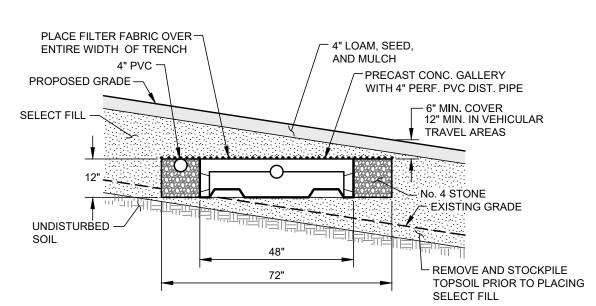
Date: 05/01/2019

PT-127A

All percs presoaked prior to test

Total Depth: 20 inches

No Ledge, Water entering 45", Mottles at 23", Roots fine



GALLERY TRENCH DETAIL NOT TO SCALE

-NEMA4X JUNCTION BOX

SECONDARY SAFETY DEVICE

- DISCONNECT COUPLING

FOR FALL PROTECTION

HALEY WARD ENGINEERING | ENVIRONMENTAL | SURVEYING 140 Willow Stree Winsted, Connecticut 06098 VWW.HALEYWARD.COM

PERMITTING

HOUSE ADDITION

JEFFERY & CLAUDIA KEENAN 127 WASHINEE HEIGHTS ROAD - SALISBURY, CONNECTICUT

SEPTIC SYSTEM DETAILS

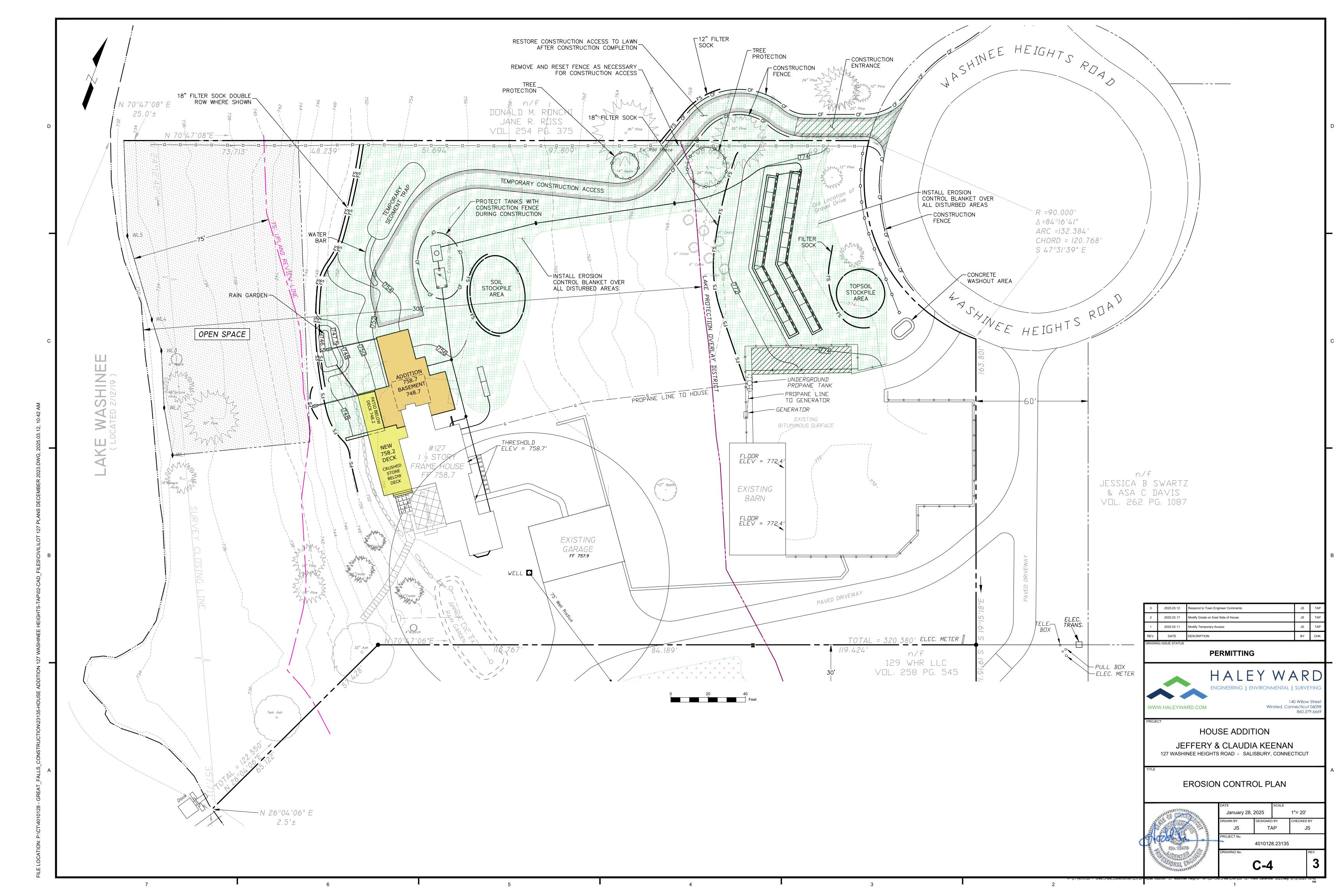


SCALE: N.T.S.

HOUSE SEWER

OTHER SEWERS

ground water from entering.



1. INTRODUCTION AND PERMIT COMPLIANCE

Pursuant to Connecticut P.A. 83-388, this project requires a Soil Erosion and Sediment Control Plan and Narrative

This narrative describes the minimum measures required to control soil erosion during and after construction of the sitework shown on this plan. The soil erosion and sediment control measures shown on this plan are designed in accordance with a document entitled "Connecticut Guidelines for Soil Erosion and Sediment Control" published by the Connecticut Council on Soil and Water Conservation in Collaboration with Connecticut Department of Energy and Environmental Protection effective March 30, 2024. The Contractor may be required to implement additional measures to prevent site erosion and sedimentation of downstream waterways.

The Contractor is required to obtain copies of, and comply with the conditions of all permits for this project, including but not limited to:

 Municipal Inland Wetlands Permit - Municipal Planning & Zoning Permit

SOIL EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

The Contractor's activities and operations include all site work and work incidental to the project including, but not limited to haul roads, waste and disposal areas, staging areas, and field offices. If any of his activities require approvals above and beyond those already accounted for by the Owner's permits, the Contractor shall apply for and obtain such permits prior to conducting those operations. If incidental work such as haul roads, waste and disposal areas, staging areas, and field offices are not shown on the plans, and require additional erosion control, the Contractor shall provide such controls.

2. PROJECT DESCRIPTION AND SITE CHARACTERISTICS

This project involves an addition to a single-family residence. The existing site is mostly open lawn area. The grades across most of the area of proposed activity range from 8% to 10%. All of the site work occurs in areas that have been previously disturbed. The project will result in 0.7 acres of site disturbance.

The project includes the following activities:

Building construction

Earthwork

· Septic system installation Minor building and pavement demolition

3. CONSTRUCTION SEQUENCING

1. Confirm all permits are in place 2. Have surveyor stake out the construction access.

3. Install construction entrance.

4. Install perimeter erosion control measures.

5. If required by the Town, hold a preconstruction conference.

6. Strip topsoil and stockpile for remainder of construction access

7. Install temporary construction access. 8. Have surveyor stake out septic system.

9. Strip and stockpile topsoil at septic system leaching field area. 10. Install septic system.

11. Spread topsoil and seed septic system area. Install erosion control blanket over septic system area. 12. Stake out house addition

13. Strip and stockpile topsoil in area of addition.

14. Excavate for foundation and begin house construction. 15. When temporary construction access is no longer required, restore area to grass.

17. Spread topsoil and seed all remaining disturbed areas.

18. Cover disturbed areas with erosion control blanket. The project is expected to start in the spring of 2025 and take approximately 12 months.

4. RESPONSIBILITY

4.1 RESPONSIBILITIES OF OWNER/PERMITER

The Owner is 280 BTLR, LLC, c/o Jeffrey & Claudia Keenan, 23721 NE, 48th Ave, #H7, Okeechobee, FL 34972. Phone 404-695-6777. The Owner shall:

A.Provide the Contractor with copies of land-use permits that Owner has acquired. B. Inform all parties involved with the proposed site work of this plan's objectives and requirements

4.2 RESPONSIBILITIES OF CONTRACTOR

The Contractor is Great Falls Construction, Inc. 117 Dublin Road, Falls Village, CT 06031. Phone 860-824-7128. The Contractor is responsible for preventing erosion of the site and for protecting adjacent waterways from sedimentation.
The Contractor shall:

A.Install, monitor, and maintain the soil erosion and sediment control measures as shown on this plan.

C. Provide the Owner, Engineer, and the municipality with 24 hour phone numbers in the event of an emergency at the site.

B. Comply with all permit requirements.

If required by the Town, the Contractor shall initiate a preconstruction conference with the Permitee, Owner-of-record, Contractor, Engineer, and a municipal representative to review the proposed soil erosion and sediment control measures.

6. DESCRIPTION AND MAINTENANCE OF EROSION CONTROL MEASURES

6.1 TEMPORARY STABILIZATION MEASURES

Provide temporary grass cover where indicated on the plans or where temporary land grading will be unaltered for more than one month but less than 12 months. The topsoil over the loosened surface. If seeding commences during the summer or early autumn, the annual or perennial ryegrass seed shall be used. If seeding commences in spring or late autumn, the winter ryegrass seed shall be used. Seeding rates shall be 5 lbs./1000 sq. ft. Hay mulch shall be spread at the rate of 100 lbs./1000 sq. ft. The Contractor shall irrigate the grass until an acceptable stand of grass is established.

Filter Sock:

Install filter sock as shown on the plans and details. Socks shall consist of a filter media inside of a mesh tube. Stake the filter sock at four-foot intervals or as called for by the manufacturer. Filter socks less than 12 inches in diameter shall be installed in a shallow depression. Where the filter sock is not continuous, it shall be overlapped a minimum of three feet. Remove sediment once levels have reached 1/4 of the effective sock. Repair and/or replace filter sock immediately if damaged or deteriorated. See table below for more information.

Project Duration Multi-Filament Polypropylene Up to 5 years Biodegradable Cotton Fiber Up to 12 months

Biodegradable Wood Fiber

Stockpiling or Storage of Excavated Materials:

Up to 18 Months

Completely surround all temporary (2-4 weeks) material stockpiles with haybales or silt fence to prevent transportation of sediment. Seed stockpiles that will remain for a

Fabric Slope Protection:

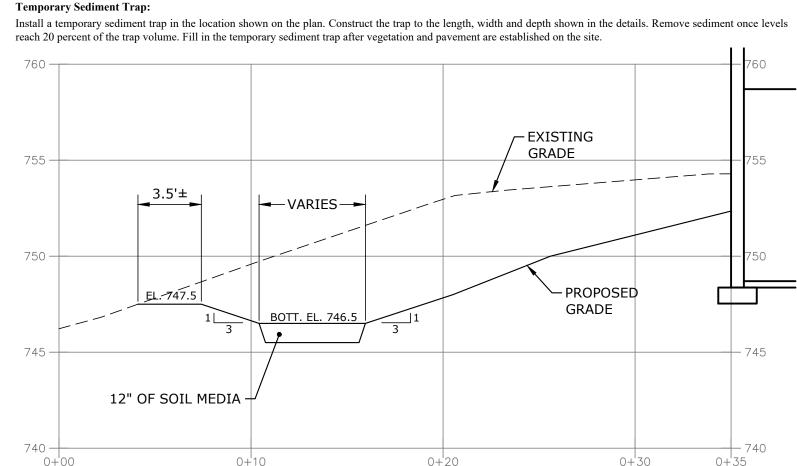
Install fabric slope protection on the sloping areas shown on the plan. The Contractor shall select a fabric from the Connecticut Department of Transportation's Approved Product List. The fabric shall meet the requirements of Class 1 Type A Slope Protection. The fabric shall be installed in accordance with the manufacturers instructions and guidelines. The Contractor shall maintain the fabric until a stand of grass, acceptable to the Owner, is established.

Temporary Mulch:

Mulch all disturbed areas with hay or straw at the rate of 2 tons per acre. Spread mulch by hand or mulch blower to provide a uniform distribution. Anchor the mulch by tracking with tracked construction equipment so cleat marks are parallel to the contour. Mulch nettings, applied in accordance with the manufacturer's recommendations, may be used as an alternate to tracking. Restore any areas where mulch is washed away or blown away by the wind.

This activity shall be used to stabilize areas where construction is suspended during the winter months. Once the appropriate dates for seeding are reached, the Contractor shall complete the seeding operations.

6.2 TEMPORARY STRUCTURAL MEASURES



SECTION B THROUGH RAIN GARDEN

SCALE: 1"= 5'

6.3 PERMANENT STABILIZATION MEASURES

Implement stabilization measure within three days of final grading.

Topsoil, Seed and Mulch: Immediately following rough grading activities, bring all disturbed areas to final grade with a minimum of four inches of screened topsoil (after compaction). Topsoil shall be free of large stones and roots and other deleterious materials such as wood, pieces of pavement, metals, trash, etc. and shall be of such quality as to readily promote germination of grass seed.

Prior to seeding, submit soil samples to a qualified soils laboratory for recommendations on liming and fertilizer. Follow the laboratory recommendations. All areas, to be re-vegetated, shall be seeded at a rate of 6 lbs/1,000 SF as follows:

For seeding between May 1st and August 15th Creeping red fescue Chewings red fescue Kentucky 31 tall fescue Domestic rye grass For seeding any other time of year: Creeping red fescue Chewings red fescue Kentucky 31 tall fescue Baron bluegrass Rough bluegrass

Immediately after seeding operations, cover the seedbed with hay or straw mulch at a rate of 100 lbs./1000 sq. ft. Mulch must be free of weeds and coarse matter. Spread mulch by hand or by mulch blower. Mulch anchoring is required by tractor drawn anchoring device along contour, or by tracking with a bulldozer (cleats parallel to

6.4 PERMANENT STRUCTURAL MEASURES (POST CONSTRUCTION STORMWATER MANAGEMENT)

Land Grading:

Proposed grades are shown in detail on the plan.

In general, the Contractor shall properly stockpile earth, move it to fill areas, or export it from the site. Place and compact fill in shallow lifts, proceeding uphill from the toe area. Create large but shallow runoff collection areas at the end of each working day to help collect and prevent runoff from running down the fill face. Bring all excavated, filled, or disturbed areas to final grade as soon as possible and stabilize areas with loam, seed and mulch immediately. Keep erosion control measures in place until the site is stabilized with pavement and/or vegetation.

Minimize disturbance of the areas planned for raingarden/bio retention areas. Avoid unnecessary compaction. Construct bioretention areas where shown on the plans. Construct the bioretention areas according to the requirements shown on the plans and details.

6.5 OTHER CONTROLS

Waste Disposal:

Provide an adequate number of covered waste containers to ensure that no litter, debris, building materials, or similar materials are discharged to wetlands or watercourses. Instruct subcontractors to use the containers for waste material. Empty the containers promptly when full.

Construction Entrance:

Place clean washed stone (CONNDOT No.3 stone) at the site entrance(s) to the length, width and depth indicated on the plans and details to help remove mud and/or clods of soil from construction vehicles exiting from the site. Add stone as necessary to maintain adequate serviceability.

Pavement Maintenance:

The Contractor shall sweep paved roadways adjacent to the site on a routine basis to prevent tracking of mud onto public roadways and washing of mud into waterways. If the Contractor's schedule for cleaning the pavement is found to be inadequate by the Owner, Owner's Representative, or the municipality, the Contractor shall increase

the frequency at no additional cost to the Owner.

Clean all stormwater structures, including, but not limited to pipes, swales, detention basins, sediment traps, and riprap aprons of sediment upon completion of the

Washout of equipment for concrete shall be conducted in the designated area. Such washout shall be conducted: (1) outside of any buffers and at least 50 feet from any stream, wetland or other sensitive resource; or (2) in an entirely self-contained washout system.. The Contractor shall direct all washwater into a container or pit designed such that no overflows can occur during rainfall or after snowmelt.

At least once per week, the Contractor shall inspect all of the containers or pits used for washout to ensure structural integrity, adequate holding capacity, and to check for leaks or overflows. If there are signs of leaks, holes or overflows in the containers or pits that could lead to a discharge, the Contractor shall repair them prior to further

The Contractor shall remove hardened concrete waste whenever the hardened concrete has accumulated to a height of ½ of the container or pit or as necessary to avoid

. DEWATERING

Construction Dewatering:

This item includes methods and equipment necessary to maintain, in a dry condition, any areas in which construction is to be conducted. These methods include pumping, draining, installing well-points and/or cofferdams. Whatever the methods or equipment used, dispose of the discharge water in such a manner to avoid pollution of existing watercourses, injury to persons or public or private property.

The Contractor shall develop a dewatering program designed to ensure that disposal of all dewatering wastewaters will not cause scouring or erosion or contain suspended solids in amounts which could reasonably be expected to cause pollution of wetlands or waterways. Discharge wastewaters in a manner which minimizes the

The Contractor shall construct a silt fence/haybale barrier at the outlet of the dewatering system. The wastewater must pass through this barrier prior to discharge to any storm sewer or watercourse. The Contractor shall continually monitor the discharge to ensure the barrier is functioning properly. The barrier shall be maintained in working condition until dewatering operations are complete.

8. GENERAL CONDITIONS

Sweet pepperbush

Winterberry holly

Mountain laurel

Swamp azalea

Red maple

Highbush blueberry

River birch, black birch

Sour gum, black gum

Flowering dogwood

Wild red columbine

New England aster

Marsh marigold

Cardinal flower

American hornbeam, ironwood

- 8.1 If erosion control measures are damaged by construction vehicles, acts of vandalism, or severe weather conditions, the Contractor shall immediately remove sediment in the vicinity of the erosion control measures and repair these measures to a functional condition.
- 8.2 If, during or after construction, it becomes apparent that existing erosion control measures are incapable of controlling erosion, the Owner, the Engineer, or the municipality may require additional control measures including, but not limited to; additional haybales, silt fence, sediment basins, or mechanically anchored mulch.
- 8.3 Refueling of equipment or machinery within 75 feet of any wetland or watercourse is prohibited. 8.4 No materials resulting from construction activities shall be placed in or allowed to contribute to the degradation of an adjacent wetland or watercourse. Disposal of any
- material shall be in accordance with Connecticut General Statutes, including, but not limited to, Sections 22a-207 through 22a-209. Stabilize all temporary fill to prevent erosion and to prevent sediment or other particulate matter from reentering a wetland or watercourse. Restore and revegetate all areas affected by temporary fills to their original contours or as directed by the Owner. Confine the extent of temporary fill or excavation to that area necessary to
- perform the work, as approved by the Owner 8.6 Dumping of oil, chemicals or other deleterious materials on the ground is forbidden. The Contractor shall provide a means of catching, retaining, and properly
- disposing of drained oil, removed oil filters, or other deleterious material. All spills of such materials shall be reported immediately by the Contractor to the DEEP. 8.17 No application of herbicides or pesticides within 75 feet of any wetland or watercourse will be allowed. All such applications must be done by a Connecticut licensed applicator. The Contractor shall submit to the Owner the proposed applicator's name and license number, and must receive the Owner's approval of the proposed applicator, before such application is carried out.

RAIN GARDEN PLANTING SCHEDULE

Contractor shall select a mixture of the plants in the table and plant them in the rain gardens.

(Clethra alnifolia)

(Ilex verticillata)

(Kalmia latifolia)

(Acer rubrum)

(Carpinus caroliniana)

(Cercis canadensis)

(Nyssa sylvatica)

(Cornus florida)

(Betula nigra)

(Vaccinium corvmbosum)

(Rhododendron viscosum)

RESTRAINT (IF REQD.) PERMEABLE PAVERS INSTALLED PER MANUFACTURERS **SPECIFICATIONS** SAND BEDDING COURSE 3/4" COMPACTED CLEAN GRAVEL NON-WOVEN GEOTEXTILE ON BOTTOM AND SIDES OF OPEN 4" PVC UNDERDRAIN CLEAN GRAVEL DIRECTED TO RAIN GARDEN PERMEABLE PAVER MAINTENANCE SYSTEM:

CURB EDGE

REMOVE DEBRIS SUCH AS GRASS CLIPPINGS, SEDIMENT, TRASH AND LEAVES

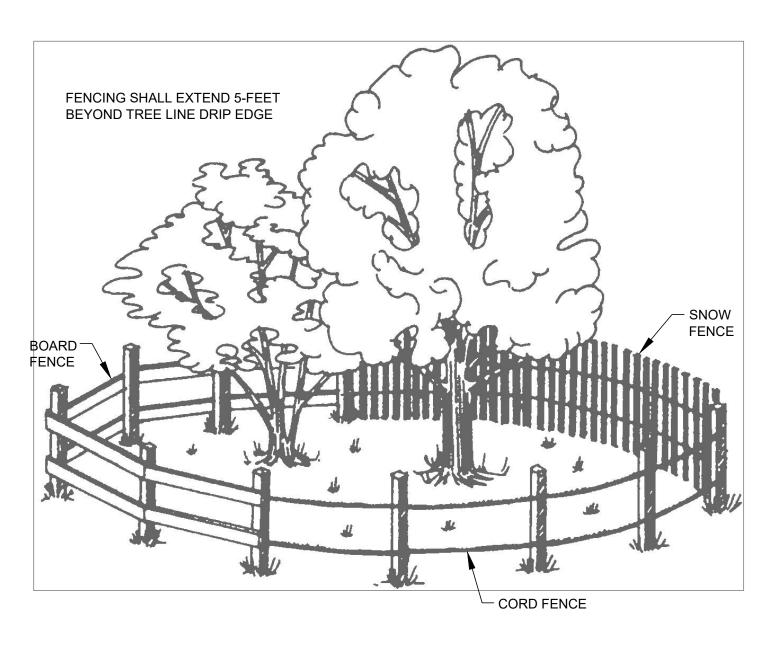
- VACUUM SWEEP THE PAVEMENT ONCE OR TWICE A YEAR TO REMOVE SEDIMENT AND PREVENT CLOGS • EACH WINTER, REMOVE SNOW WITH A RUBBER-TIPPED SHOVEL OR PLOW TO PREVENT DAMAGE TO
- PAVEMENT SURFACE • INSPECT STRUCTURAL INTEGRITY OF THE PERMEABLE PAVERS, REPAIR OR REPLACE AS NEEDED

WOOD MULCH FILL-

• INSPECT PERMEABLE PAVEMENT AFTER STORMS TO ENSURE PROPER DRAINAGE, WATER SHOULD NOT POND FOR MORE THAN 36 HRS.

PERMEABLE PAVER DETAIL

NOT TO SCALE



TREE PROTECTION NOT TO SCALE

- WOODEN STAKE AT INTERVALS

RECOMMENDED BY MANUFACTURER

DRAIN LINE CLAMP-DRAIN LINE ADAPTER WITH NUT-

WASTEWATER TREATMENT PIPE DISCHARGE DETAIL

NOT TO SCALE

FINISH GRADE-4" LOAM, SEED, AND MULCH-NATIVE SOIL -CULTEC No. 410 Filter Fabric -CULTEC Contactor®100 No. 4 STONE CULTEC Contactor® 100

DISPOSAL SYSTEM FOR WATER TREATMENT WASTEWATER

The installer shall construct the disposal system for the water treatment system wastewater in accordance with these plans. The system consists of the following: The existing water softener has a 106-gallon discharge.

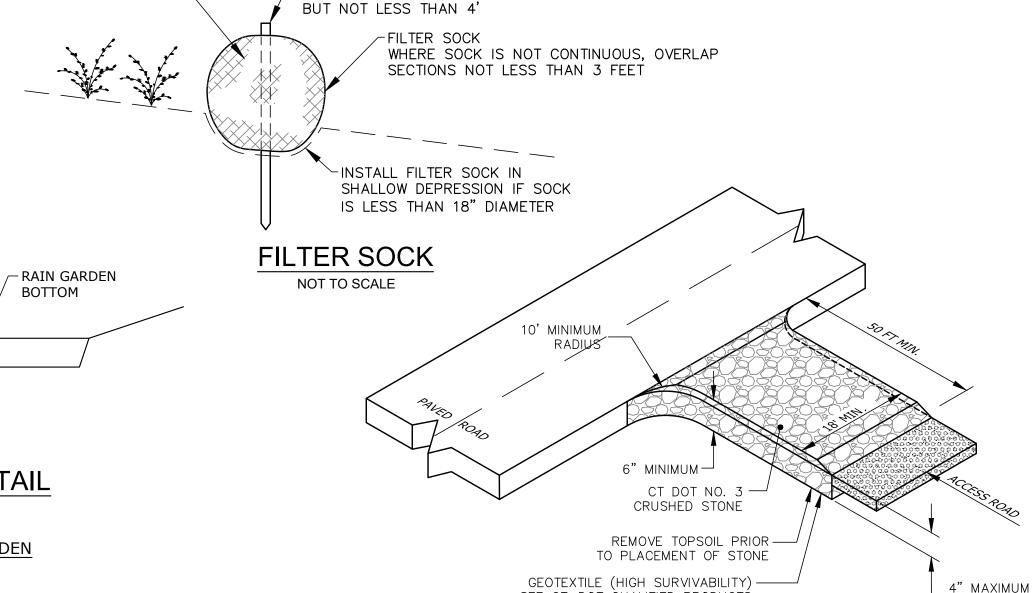
NOT TO SCALE

The design volume for the treatment system must be 1.5 times the daily discharge. 1.5×106 gallons = 159gallons. CULTEC Contactor 100 Standard Chambers have a capacity of 108.5 gallons per chamber. Use one row of chambers with 2 units. Total = 2 chambers x 108.5 gal/chamber = 217 gallons. Chambers are 12.5 inches high and have an effective length of 96 inches.

Based on several test pits, the mottling depth is estimated at 24 inches. Ledge is not present. The bottom of the system will be placed 12 inches below grade.

The installer shall notify Torrington Area Health District at least 24 hours in advance of the system

The installer shall submit an installation as-built to the Torrington Area Health District. The as-built shall include a description and location of each water treatment wastewater disposal system and horizontal distances from at least two fixed objects (i.e. survey monument, building foundation, etc.) to each system component.



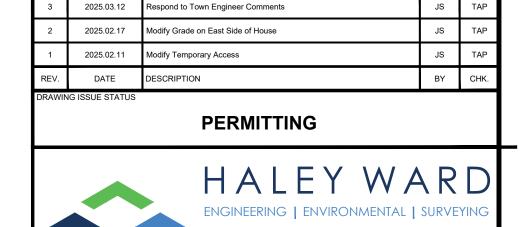
CONSTRUCTION ENTRANCE

SEE CT-DOT QUALIFIED PRODUCTS

LIST - OVER COMPACTED SUBGRADE

NOT TO SCALE

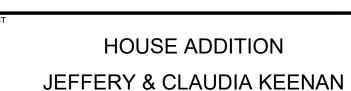
EXCAVATION



140 Willow Stree

860.379.666

Winsted, Connecticut 0609



VWW.HALEYWARD.COM

127 WASHINEE HEIGHTS ROAD - SALISBURY, CONNECTICUT

EROSION CONTROL NARRATIVE

& SITE DETAILS

January 28, 2025 1"= 20' 4010128.23135

UNDERDRAIN DETAIL

(Aquilegia canadensis)

(Symphyotrichum novae-angliae, syn.Aster novae-angliae) (Caltha palustris) (Lobelia cardinalis) (Mitchella repens)

12" OF SOIL MEDIA

SOIL MEDIA FOR RAIN GARDEN

NOT TO SCALE

GROUND MULCH 15%

<u>SOIL MEDIA</u> COARSE SAND

Partridgeberry Wild blue phlox (Phlox divaricata) Bloodroot (Sanguinaria canadensis) (Tiarella cordifolia)