TOWN OF NEW HARTFORD
INLAND WETLANDS AND WATER COURSE COMMISSION
APPLICATION FOR PERMIT

1. Applicant(s) Name: JOE WELKER
   Home Address: 130 CAMP WORKCOEMAN RD. NEW HARTFORD, CT 06057
   Business Address:
   Phone – Home: 646 251-9270 Business:
   Email Address: welkerjoe5@gmail.com
   Applicant(s) interest in land (owner, lessee, option holder, etc.
   **If applicant is not the owner, then the owner's consent, duly acknowledged, to the proposed activity, must be attached to the application.

2. Owner(s) If same as applicant, so state.
   Owner(s) Name: SAME + COLLEEN WELKER
   Home Address:
   Business Address:
   Phone – Home: Business:
   Email Address:

3. Location of Proposed Activity: 130 CAMP WORKCOEMAN RD
   Assessor's Map #: Block #: Parcel #: Zone:
   **Detailed description or plot plan may be submitted.

   Area (acres): 1.2 Square Feet, if less than 2 acres:
   Total acreage of wetlands on property: NOT SURE

4. Description of the proposed activity: ADDITION TO EXISTING & SUB SURFACE SEWAGE SANITATION SYSTEM

5. Alternatives considered by the applicant and why the proposal to alter wetlands set forth in the application was chosen: NONE

6. Names and addresses of adjacent property owners within 100 feet. **Information can be obtained at the Assessor's Office. JIM & LAURA MINOR @ 126 C. WORKCOEMAN
   BILL & SUE ANCLAR @ 128 " "
   DAVE & LORRAINE MINER @ 134 " "
   BOY SCOUTS OF AMERICA

7. Any other information:

20-08-04
CK. 1442

YOU MUST ALSO SUBMIT:

- 9 Copies of a Site Plan showing existing and proposed conditions in relation to wetlands and watercourses.
- 9 Copies of all other documents pertaining to the application.
- $120.00 Application Fee.
- Completed DEP Inland Wetlands Activity Report.

The undersigned warrants the truth of all statements made in conjunction with this application and consents to inspections of the site.

Applicant's Signature ______________________ Print or Type Name JOSEPH WELKER

The undersigned owner(s) of record consent to the submission of this application and to Inspections of the Site.

Owner's Signature ______________________ Print or Type Name JOSEPH WELKER

FOR COMMISSION USE:

Receipt Number: ______________ Date Received: ______________

Amount Paid: ______________

Town of New Hartford, CT

Property Listing Report

Map Block Lot	06A-112-064	Bldg #	1	Sec #	1	PID	4803	Account	00234400

Property Information

Property Location	130 CAMP WORKCOEMAN ROAD
Owner	WELKER JOSEPH R AND COLLEEN A
Co-Owner	na
Mailing Address	140 W 79TH STREET #2E NEW YORK NY 10024
Land Use	1013 SFR Water
Land Class	R
Zoning Code	R4
Census Tract	3061

Neighborhood	10
Acreage	1.2
Utilities	Well,Septic
Lot Setting/Desc	Rural Level
Book / Page	0266/0944
Fire District	1

Photo

Sketch

Primary Construction Details

Year Built	1929	Heating Fuel	Coal or Wood
Building Desc.	SFR Water	Heating Type	None
Building Style	Cottage	AC Type	None
Building Grade	Below Average	Bedrooms	02
Stories	1	Full Bathrooms	0
Occupancy	1.00	Half Bathrooms	1
Exterior Walls	Vertical Wood	Extra Fixtures	0
Exterior Walls 2	NA	Total Rooms	4
Roof Style	Gable	Bath Style	Average
Roof Cover	Asphalt	Kitchen Style	Average
Interior Walls	K Pine/A Wood	Fin Bsmt Area	
Interior Walls 2	NA	Fin Bsmt Quality	
Interior Floors 1	Soft Woods	Bsmt Gar	
Interior Floors 2	NA	Fireplaces	

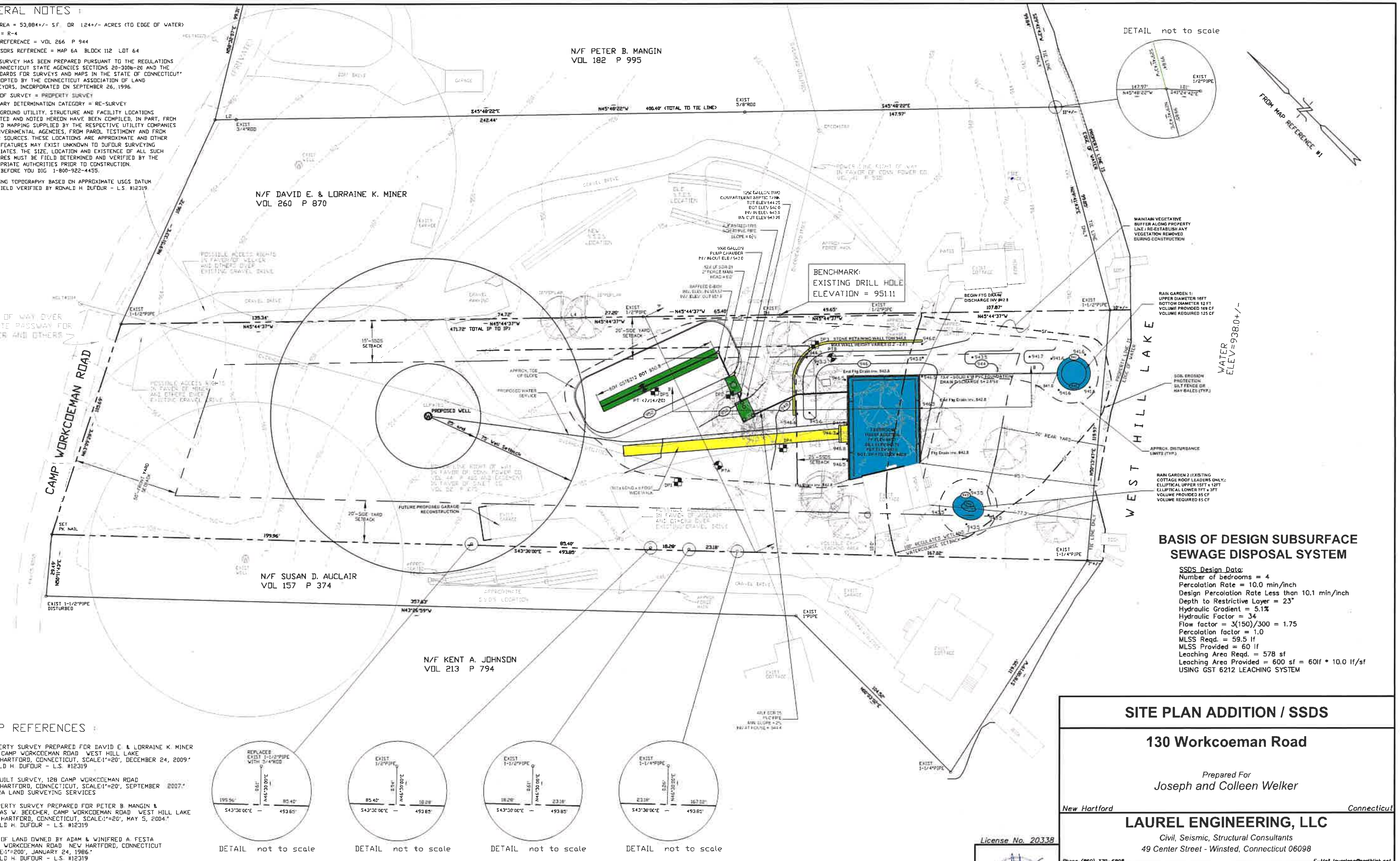
(*Industrial / Commercial Details)

Building Use	Residential
Building Condition	A
Sprinkler %	NA
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA
Foundation	NA

Report Created On 8/27/2020

GENERAL NOTES :

1. LOT AREA = 53,884+/- S.F. OR 1.24+/- ACRES (TO EDGE OF WATER)
2. ZONE = R-4
3. DEED REFERENCE = VOL 266 P 944
4. ASSESSORS REFERENCE = MAP 6A BLOCK 112 LOT 64
5. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INCORPORATED ON SEPTEMBER 26, 1996
6. TYPE OF SURVEY = PROPERTY SURVEY
7. BOUNDARY DETERMINATION CATEGORY = RE-SURVEY
8. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS ARE APPROXIMATE AND OTHER SUCH FEATURES MAY EXIST UNKNOWN TO DUFOUR SURVEYING ASSOCIATES. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.
9. EXISTING TOPOGRAPHY BASED ON APPROXIMATE USGS DATUM AND FIELD VERIFIED BY RONALD H. DUFOUR - L.S. #12319



BASIS OF DESIGN SUBSURFACE SEWAGE DISPOSAL SYSTEM

SSDS Design Data:
Number of bedrooms = 4
Percolation Rate = 10.0 min/inch
Design Percolation Rate Less than 10.1 min/inch
Depth to Restrictive Layer = 23"
Hydraulic Gradient = 5.1%
Hydraulic Factor = 34
Flow factor = 3(150)/300 = 1.75
Percolation factor = 1.0
MLSS Reqd. = 59.5 lf
MLSS Provided = 60 lf
Leaching Area Reqd. = 578 sf
Leaching Area Provided = 600 sf = 60lf * 10.0 lf/sf
USING GST 6212 LEACHING SYSTEM

MAP REFERENCES :

1. "PROPERTY SURVEY PREPARED FOR DAVID E. & LORRAINE K. MINER #134 CAMP WORKCOEMAN ROAD WEST HILL LAKE NEW HARTFORD, CONNECTICUT, SCALE:1"=20', DECEMBER 24, 2009" RONALD H. DUFOUR - L.S. #12319
2. "AS-BUILT SURVEY, 128 CAMP WORKCOEMAN ROAD NEW HARTFORD, CONNECTICUT, SCALE:1"=20', SEPTEMBER 2007." DICARA LAND SURVEYING SERVICES
3. "PROPERTY SURVEY PREPARED FOR PETER B. MANGIN & THOMAS W. BEECHER, CAMP WORKCOEMAN ROAD WEST HILL LAKE NEW HARTFORD, CONNECTICUT, SCALE:1"=20', MAY 5, 2004." RONALD H. DUFOUR - L.S. #12319
4. "MAP OF LAND OWNED BY ADAM & WINIFRED A. FESTA CAMP WORKCOEMAN ROAD NEW HARTFORD, CONNECTICUT SCALE:1"=200', JANUARY 24, 1986." RONALD H. DUFOUR - L.S. #12319
5. "PLAN OF LOTS OWNED BY FRED H. BALDWIN NEW HARTFORD, CONNECTICUT, SCALE:1"=100', APRIL 29, 1921." F.N. MOORE - L.S.
6. "SURVEY OF PROPERTY TO BE CONVEYED BY THE ESTATE OF WILLIAM C. NETH TO F. EVELYN SMITH NEW HARTFORD, CONN. SCALE:1"=40', JULY 7, 1965." DOUGLAS G. LITTLE - L.S.

LINE DATA

No.	Bearing	Distance
L1	S45°52'46"E	17.00'
L2	N45°48'22"W	10.00'
L3	S45°58'36"E	10.00'
L4	N45°44'37"W	11.54'

SITE PLAN ADDITION / SSDS

130 Workcoeman Road

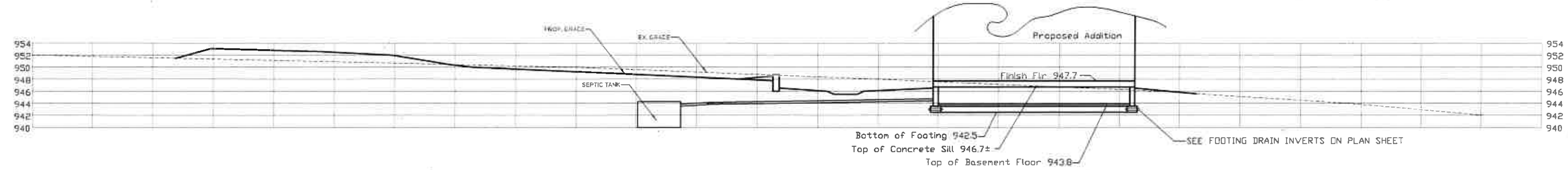
Prepared For
Joseph and Colleen Welker

New Hartford *Connecticut*

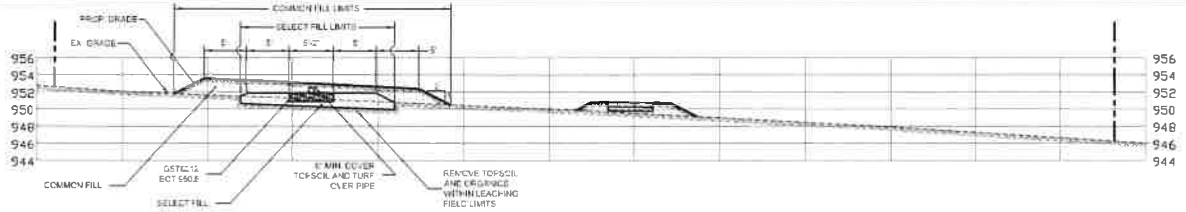
LAUREL ENGINEERING, LLC
Civil, Seismic, Structural Consultants
49 Center Street - Winsted, Connecticut 06098
Phone (860) 379-6898 *E-Mail laureleng@earthlink.net*

License No. 20338

Scale:	*1" = 20'*	*Project No.:*	*20-112*	*Drawing No.*
Drawn By:	*RC*	*File Name:*	*SSDS-Plan.dwg*	**1**
Revised Through:	*08/20/20*	*Submitted:*	*07/24/20*	



SECTION B–B



SECTION A–A

Notes:

1. All construction activities are outside wetland or watercourse areas.
2. Leaching field is outside the regulated watercourse setback areas.
3. The soil profile is consistent throughout the site.
4. All activities on this site shall follow procedures set forth in the current Sediment and Erosion Control Guidelines (DEEP Bulletin 34) prepared by the Connecticut Council on Soil and Water Conservation in cooperation with the Connecticut Department of Energy and Environmental Protection as amended.
5. All erosion control devices shall be in–place prior to commencement of work.
6. All necessary modifications arising from the Town's initial visit to the site shall be addressed prior to commencement of work.
7. Inspection of sediment and erosion control devices shall be performed weekly and within 24 hrs of a precipitation event greater than 0.5".
8. If any sediment and erosion control devices are deficient or require maintenance all construction operations shall be suspended and recommence upon repair of such devices.
9. Once final grade is completed, any excess materials shall be removed from the site.
10. Owner is prohibited from discharging any future water system to the septic system
11. Driveways (if proposed) shall be installed per town of New Hartford Driveway Ordinance 28.
12. Select Fill Source shall be approved only if sieve test is less than two weeks old. Engineer shall perform a minimum of two percolation test on the in–place select fill and field verify system location prior to installing leaching system.
13. All adjacent property wells are further than 75–ft from proposed system.
14. All adjacent septic systems are further than 75–ft of proposed well location.
15. Construction of the leaching trenches is based on maintaining a minimum distance of 18–inches above the restrictive layer. If Contractor finds conditions differ, then the design engineer shall be so informed prior to proceeding with trench layout.
16. Engineer shall provide layout out dimensions for contractor prior to installation.
17. Location of Utilities lines is approximate. Contractor must determine where Utilities are prior to
Construction. USE THE CALL BEFORE YOU DIG SERVICE.

SOIL TEST DATA

TEST PIT NO. 1

0" TO 4"	FOREST LITTER / TOPSOIL
4" TO 30"	ORANGE BROWN FINE SANDY LOAM
30" TO 75"	GREY TILL

ROOT DEPTH	48"
MOTTLES	27"
REFUSAL	NONE
WATER	48"

TEST PIT NO. 2

0" TO 9"	FOREST LITTER / TOPSOIL
9" TO 23"	YELLOW BROWN FINE SANDY LOAM
23" TO 84"	GREY TILL

ROOT DEPTH	48"
MOTTLES	23"
REFUSAL	NONE
WATER	48"

TEST PIT NO. 3

0" TO 6"	FOREST LITTER / TOPSOIL
6" TO 26"	ORANGE BROWN FINE SANDY LOAM
26" TO 84"	GREY TILL

ROOT DEPTH	26"
MOTTLES	26"
REFUSAL	NONE
WATER	60"

PERC TEST DATA

START TIME AT END OF 2HR PRE–SOAK: 12:40

TIME	READING	WATER DROP
12:40	2½"(start)	0"
12:50	6½"	4"
1:00	8½"	2"
1:10	10"	1½"
1:20	11"	1"
1:30	12½"	1½"
1:40	13½"	1"
1:50	14½"	1"
2:00	15½"	1"

PERC HOLE DEPTH = 20 1/2" (18" WATER)
PERC RATE: 10.0 MIN. / INCH

Soil Profile:

0"–4"	Topsoil / Organics
3" – 20½"	Yellow/Brown Fine Sandy Loam

TEST PIT NO. 4

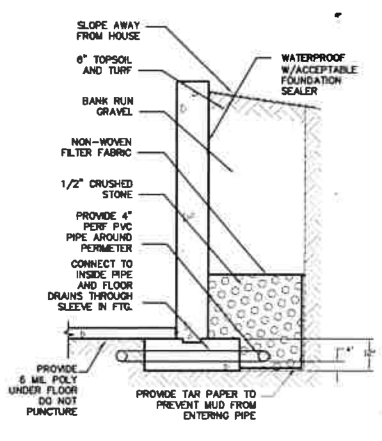
0" TO 2"	FOREST LITTER / TOPSOIL
2" TO 26"	ORANGE FINE SANDY LOAM
26" TO 75"	GREY TILL

ROOT DEPTH	26"
MOTTLES	26"
REFUSAL	NONE
WATER	60"

TEST PIT NO. 5

0" TO 3"	FOREST LITTER / TOPSOIL
3" TO 38"	YELLOW BROWN FINE SANDY LOAM
38" TO 80"	GREY TILL

ROOT DEPTH	22"
MOTTLES	23"
REFUSAL	NONE
WATER	NONE



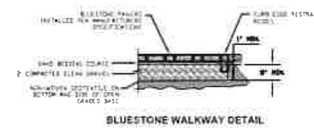
FOOTING DRAIN DETAIL
NTS

BLUESTONE PAVER MAINTENANCE SYSTEM

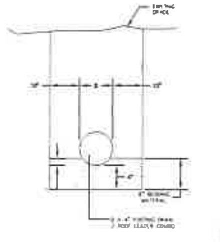
MONTHLY:
- REMOVE DEBRIS SUCH AS GRASS CLIPPINGS, SEDIMENT, TRASH AND LEAVES

SEASONALLY:
- 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 PAVEMENT. REPAIR OR REPLACE AS NEEDED

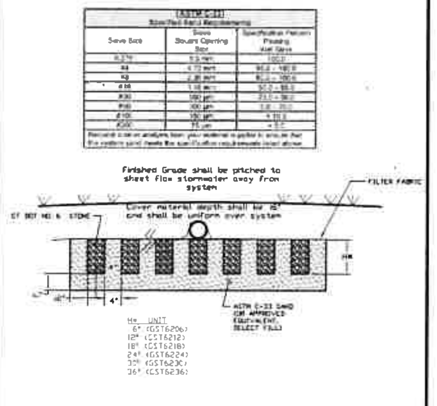
AS NEEDED:
- INSPECT BLUESTONE PAVEMENT AFTER STORMS TO ENSURE PROPER DRAINAGE. WATER SHOULD NOT POND FOR MORE THAN 24 HRS



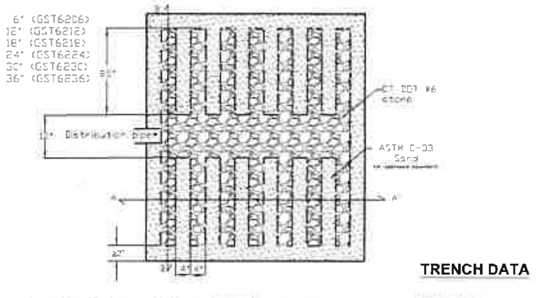
BLUESTONE WALKWAY DETAIL
NTS



TYPICAL DRAIN / LEADER DISCHARGE PIPE DETAIL



GEOMATRIX GST 6212 LEACHING SYSTEM
A-A' CROSS SECTION

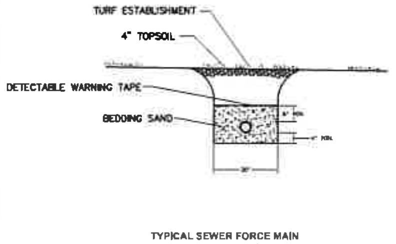


*3" min I.D., ASTM D-3034, SDR 35 pipe for gravity applications
0.75" min I.D., ASTM D-2665, SCH 40 PVC pipe for pressure applications

GEOMATRIX GST LEACHING SYSTEM
Plan View

TRENCH DATA

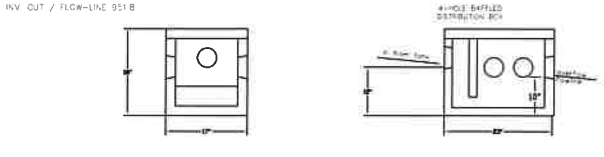
TRENCH DATA
Length = 60 lf (includes stone)
Bottom of Trench Elev. = 950.8
Materials = GST 6212



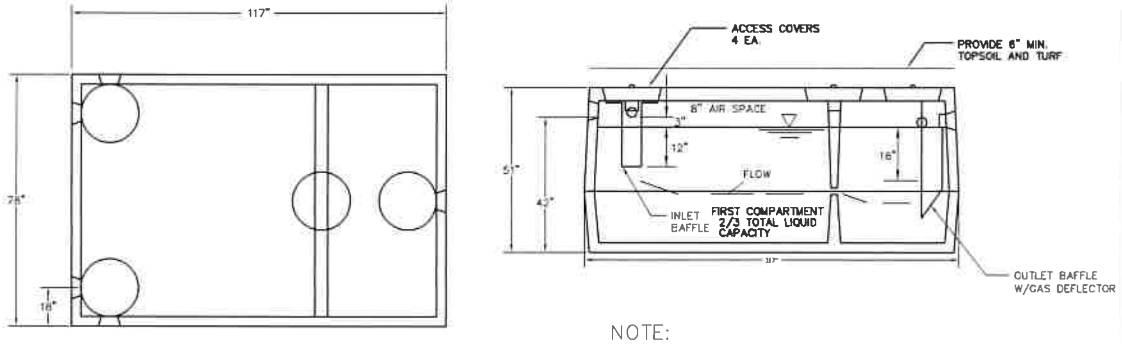
TYPICAL SEWER FORCE MAIN TRENCH DETAIL
NTS

DISTRIBUTION BOX DATA

D–BOX DATA
(BAFFLED) (2" HIGHER INLET)
INV. IN 951.97
INV. OUT / FLOW–LINE 951.8

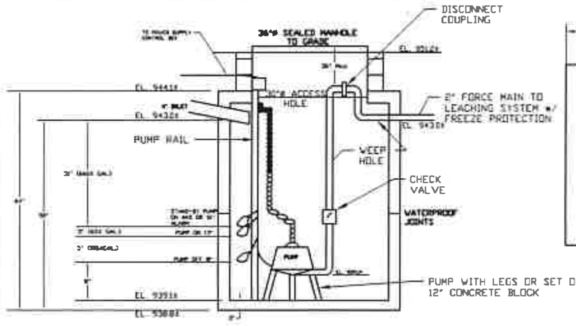


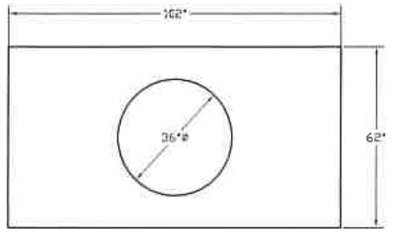
D-BOX



NOTE:
PROVIDE 24" DIAMETER
RISERS TO GRADE

1250 GAL. STLB
SEPTIC TANK DETAIL
NTS





NOTES:
- 1000 US Gallon Capacity @ 47 Inch Liquid Depth
- All inlets same elevation- 50 inches to bottom
- 4 Self sealing inlets for 4 inch pipe
- Fiber reinforcement throughout
- Concrete: 5000psi min
- ASTM C 1227
- Includes 36 inch x 2.5 inch thick flat cover
- T&G joint sealed with butyl seal
- Total weight: 8000 lbs.

NOTE:
PROVIDE 24" DIAMETER
RISERS TO GRADE

1100 GALLON PUMP STATION
W/ SINGLE PUMP AND ALARM
NTS

License No. 20338

DETAILS AND NARRATIVES

130 Workcoeman Road

Prepared For
Joseph and Colleen Welker

New Hartford *Connecticut*

LAUREL ENGINEERING, LLC

Civil, Seismic, Structural Consultants
49 Center Street - Winsted, Connecticut 06098
Phone (860) 379–6898 *E–Mail laureleng@earthlink.net*

Scale:	*NTS*	*Project No.:*	*20–112*	*Drawing No.*
Drawn By:	*RC*	*File Name:*	*SSDS–Plan.dwg*	**2**
Revised Through:	*08/20/20*	*Original Submitted:*	*08/24/20*	

SUBSURFACE SEWAGE DISPOSAL SYSTEM
TECHNICAL SPECIFICATIONS

Site Preparation:

Clear and grub areas leaching field to the clearing limits shown on the plan. The contractor shall exercise extreme care in removing surface boulders and topsoil within the area of the leaching field. Topsoil shall be stockpiled (in a convenient area) and protected from erosion. Erosion control measures shall be installed as shown on the plan.

House Location:

The contractor shall verify the benchmarks and control points shown on the plan prior to the layout of leaching field. The house and leaching field shall be staked-out by a Licensed Land Surveyor.

Select Fill (If needed):

The following steps should be taken to insure proper placement of the select fill:

1. Provide 24-hr notice to engineer for inspection prior to scarifying the leaching area.
2. Obtain approval of the fill material from the Sanitarian.
3. Provide a gradation test if required by the Sanitarian.
4. First layer of fill shall be laid in a 12" lift on the scarified ground before compaction. Thereafter, compact fill in six-inch lifts, improper compaction operations can cause system failure.
5. Field density requirements for fill material shall be 90% Standard Proctor Density.
6. Extend fill a minimum of 10 (ten) feet beyond the last trench before tapering off.

The select fill shall meet the following specifications:

1. The select fill shall not contain any material larger than the three (3) inch sieve.
2. Up to 45% of the dry weight of the representative sample may be retained on the #4 sieve.
   Note: This is the gravel portion of the sample. (Gravel is defined as material between the No.4 and 3-inch sieves)
3. The material that passes the #4 sieve is then re-weighed and the sieve analysis is started
4. The remaining sample shall meet the following gradation criteria.

Gradation of Fill Less Gravel

Sieve	Wet Sieve Percent Passing by Weight	Dry Sieve Percent Passing by Weight
No. 4	100%	100%
No. 10	70 – 100%	70 – 100%
No. 40	10 – 50% *	10 – 75%
No. 100	0 – 20%	0 – 5%
No. 200	0 – 5%	0 – 2.5%

* Percent passing the #40 sieve can be increased to no greater than 25% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%.

Septic Tank:

The septic tank shall be a 1,250 gallon two compartment pre-cast concrete septic tank meeting all the latest specifications defined in the Connecticut Public Health Code, with particular reference to baffles, compartments, manhole access and concrete. The tank shall be properly baffled at the inlet and outlet, and shall be watertight with joints sealed with a butyl sealant or equal. The tank shall be constructed and installed to support AASHTO HS-10 design loading. Note depth of tank and the need for risers on access holes.

Pump, Basin and Force Main:

Basin

Use a simplex or duplex pump basin in conformance with the following.

1. The pump basin shall be an 1000 gallon pump chamber as manufactured by Richards Corp.
2. The basin shall be constructed of precast concrete.
3. The basin shall have a minimum wall thickness of 3".
4. The basin shall have a cover made of steel a top manhole risers to grade.
5. The cover shall be attached to the basin by cap screws mated to threaded inserts molded into the basin rims.
6. The basin, cover, pumps, piping, and controls (if any) shall be compatible and pre-assembled to insure a proper fit.
7. Location of basin shall be prepared early during the initial site-work phase.
8. Locate placement area, excavate to the proper depth and backfill with sand while foundation work is in progress.
9. The sand should remain until the piping and basin is installed.
10. The depth of the hole should allow for the depth of the basin plus additional depth for base material (8" of one-inch stone and 6" of Type N mortar).

Basin Installation

1. Dig test pit to determine if ground water level. If high ground water is encountered inform Engineer. Excavation must be dewatered usng pump inlet and outlet protection as outlined in ConnDEEP 2002 Sediment and Erosion Control Guidelines (DEP Bulletin 34).
2. Remove sand fill down to undisturbed soil.
3. Place an 8" layer of one inch stone 6" below the bottom of proposed basin.
4. Place a 6" layer of Type N mortar and set basin in wet mortar just as mortar is about to set.
5. The stone, mortar and basin shall be set below the finished floor elevation.
6. Adjust basin so that it is level.
7. After the mortar has set, attach inlet piping and fill tank to the level of the inlet pipe.
8. Pour concrete anti-buoyancy cap on top of chamber if Engineer specifies..

Pump

The pump shall be a centrifugal type with a minimum capacity of 33 gallons / min. at 9± ft. head as supplied by Litco Supply (Torrington, CT) or equal.

Pump turn-on and turn-off level shall be adjusted by the contractor so that not less than 100.00 gallons nor more than 120.0 gallons are pumped during one complete cycle.

Force Main

The force main shall be a coiled 2.00 inch diameter polyethylene plastic flexible pressure pipe (160psi min.) in conformance with the State Health Code. No joints are permitted within 75 feet of a well or within 25 feet of an open watercourse or groundwater drains. Either a baffle or an elbow (pointing downward) shall be installed on the force main discharge in the septic tank at the end of the force main. Force main shall be insulated above frost depth.

House Sewer

The sewer pipe connecting the house with the septic tank shall be four-inch diameter SCH 40 PVC water pipe in conformance with ASTM D-1785 w/ rubber compression gasket joints (ASTM D 3139) or Solvent weld couplings/fittings using proper two step PVC solvent solution procedure. The slope of the sewer shall be a minimum of 0.25 inches per foot (1/4" per ft.). The inverts and pipe length shown on the plan should be used for this project. The Contractor shall install the pipe in an even trench and on a continuous slope. Bedding Sand shall be fine sandy loam 100% passing the ⅜" sieve and 7-15% passing the #200 sieve. Detectable Underground Warning Tape shall be 2" wide, made from 5 mil, triple layer lamination of aluminum foil core encased in 100% virgin polyethylene

Other Sewers

The sewage distribution pipe from the tank to the pump chamber shall be four-inch diameter solid SDR-35 PVC in conformance with ASTM D-3034 w/compression gasket joints. the pipe from the pump chamber to the distribution box shall be sdr-21 pvc in accordance with ASTM D-2241. The pipe shall be laid with a minimum of cover of 2-ft underneath any drive section and a minimum cover of 1-ft elsewhere. the pipe from the distribution box over the GSTM leaching units shall be perforated SDR-35 in accordance with ASTM-D3034. Bedding Sand shall be fine sandy loam 100% passing the ⅜" sieve and 7-15% passing the #200 sieve.

Distribution Boxes

Distribution boxes shall be pre-cast concrete. Distribution boxes shall be set on a 12" layer of crushed stone to prevent differential settlement or heaving from frost. The D-box shall be oriented to provide for high-level overflow as shown by inverts on the plan.

Leaching Field

The bottom of each trench and the distribution pipes shall be level throughout the trench. The maximum deviation from level permitted for this operation is one-inch in seventy-five feet.

Sewage pipe used in the leaching field shall be four-inch diameter perforated SDR-35 PVC in conformance with ASTM D-3350. The pipe shall be laid straight and all inverts shall be level and set to the elevations shown on the plan.

Leaching system shall be 12"H x 62"W GST 6212 as manufactured by Geomatrix or equal. The system shall be manufactured and installed with a minimum of 6-inch of cover. Distribution pipe must have a minimum four-inch diameter.

A layer of filter fabric must be placed to cover the entire width and length of each trench.

The filter fabric provided shall be in conformance with the Connecticut Public Health Code, Regulations and Technical Standards for Subsurface Sewage Disposal Systems, Revised January 1, 2007 as indicated in Appendix C.

In accordance with the manufacturer's recommendations all inlets and outlets shall be mortared or sealed with an appropriate seal or gasket. The opening at the house shall be mortared once the pipes have been installed.

All drains shall be a minimum of 25 feet from any septic system component.

Loam, Seed and Mulch

The following operations should be completed as soon as possible upon the completion of the fill slopes, septic system, and yard grading:

1. Cover the entire area with a minimum of 4" of topsoil and rake to smooth entire area.
2. Spread lime at the rate of 90lbs. per 1,000 sq. ft..
3. Spread 10-10-10 fertilizer at the rate of 7.5lbs. per 1,000 sq. ft..
4. Spread grass seed at the rate of 5lbs. per 1,000 sq.. ft..
5. Spread mulch hay at the rate of 79-90lbs. per 1,000 sq.. ft..

Miscellaneous

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

Plumbing in the basement exits through the basement wall therefore plumbing for interior appliances etc. shall be limited.

A benchmark shall be set and the leaching system and house shall be staked out by a Licensed Land Surveyor, prior to any work at this site. A Licensed Land Surveyor shall set any required pins prior to commencement of work.

Any future water treatment systems shall not discharge to the subsurface sewage disposal system.

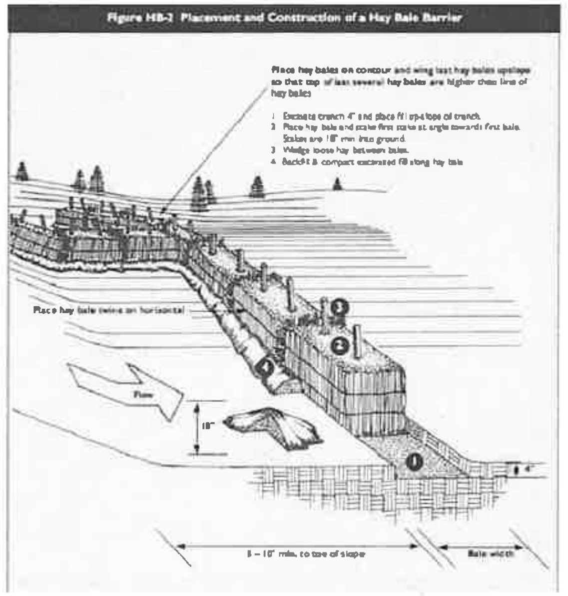
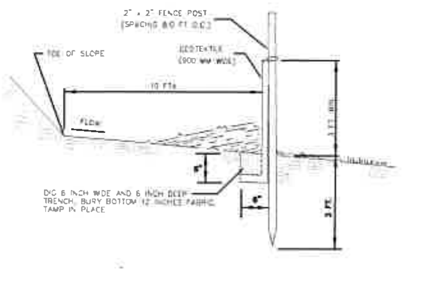


Figure HB-2 Placement and Construction of a Hay Bale Barrier

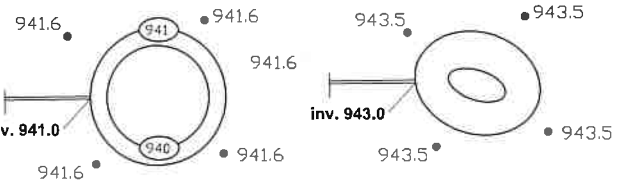
NOTES:
1. GEOTEXTILE FABRIC TO BE FASTENED SECURELY TO FENCE POST BY USE OF WIRE TIES OR HOG RINGS. 3 FASTENERS PER POST.
2. ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO A COMMON POST BY WRAPPING EACH END OF THE FABRIC AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.



EROSION CONTROL (FILTER FABRIC)
NTS

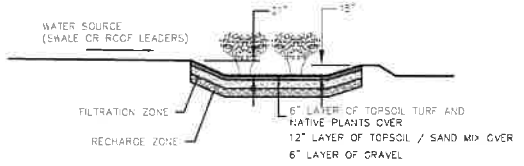
UPPER Ø = 16 FT
BOTTOM Ø = 12 FT

UPPER Ø = 15 FT x 12 FT
BOTTOM Ø = 7 FT x 3 FT



RAIN GARDEN 1

RAIN GARDEN 2



RAIN GARDEN
PLANTING SCHEDULE

Shrubs	
Sweet pepperbush	(Clethra alnifolia)
Winterberry holly	(Ilex verticillata)
Mountain laurel	(Kalmia latifolia)
Highbush blueberry	(Vaccinium corymbosum)
Swamp azalea	(Rhododendron viscosum)
Trees	
Red maple	(Acer rubrum)
River birch, black birch	(Betula nigra)
American hornbeam, ironwood	(Carpinus caroliniana)
Sour gum, black gum	(Nyssa sylvatica)
Flowering dogwood	(Cornus florida)
Redbud	(Cercis canadensis)
Plants	
Wild red columbine	(Aquilegia canadensis)
New England aster	(Symphyotrichum novae-angliae s.n. Aster novae-angliae)
Marsh marigold	(Caltha palustris)
Cardinal flower	(Lobelia cardinalis)
Partridgeberry	(Mitchella repens)
Wild blue phlox	(Phlox divaricata)
Bloodroot	(Sanguinaria canadensis)
Foamflower	(Tiarella cordifolia)

RAIN GARDEN
NTS

DETAILS AND NARRATIVES

130 Workcoeman Road

Prepared For
Joseph and Colleen Welker

New Hartford *Connecticut*

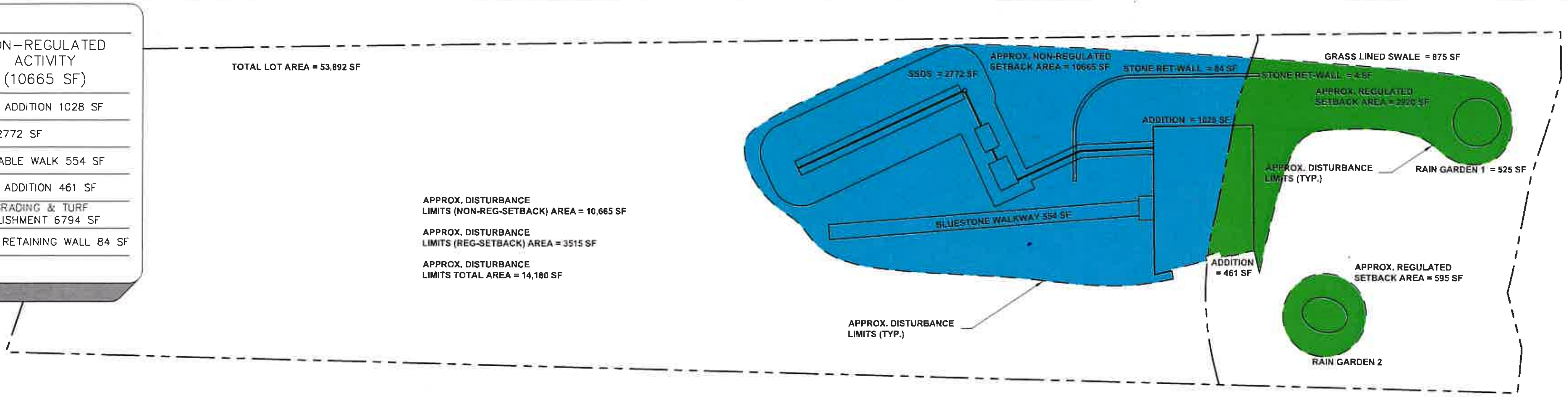
LAUREL ENGINEERING, LLC
Civil, Seismic, Structural Consultants
49 Center Street - Winsted, Connecticut 06098
Phone (860) 379-6898 *E-Mail laurel.eng@earthlink.net*

License No. 20338

Scale:	*NTS*	*Project No.:*	*20-112*	*Drawing No.* **3**
Drawn By:	*RC*	*File Name:*	*SSDS-Plan.dwg*	
Revised Through:	*08/20/20*	*Original Submitted:*	*08/24/20*	

WETLANDS INFORMATION TABLE

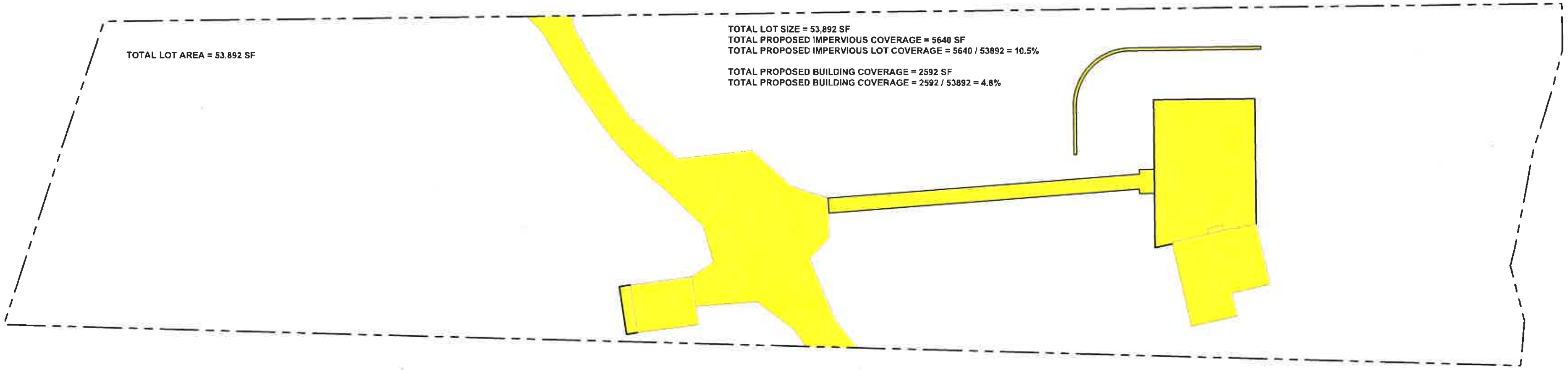
WETLAND ACTIVITY (0 SF)	REGULATED ACTIVITY (3,515 SF)	NON–REGULATED ACTIVITY (10665 SF)
	RAIN GARDEN 1 525 SF	HOUSE ADDITION 1028 SF
	RAIN GARDEN 2 595 SF	SSDS 2772 SF
	GRASS LINED SWALE 875 SF	PERMEABLE WALK 554 SF
	HOUSE ADDITION 461 SF	HOUSE ADDITION 461 SF
	MISC GRADING & TURF ESTABLISHMENT 1059 SF	MISC GRADING & TURF ESTABLISHMENT 6794 SF
	STONE RETAINING WALL 4 SF	STONE RETAINING WALL 84 SF



APPROX. DISTURBANCE LIMITS (NON-REG-SETBACK) AREA = 10,665 SF

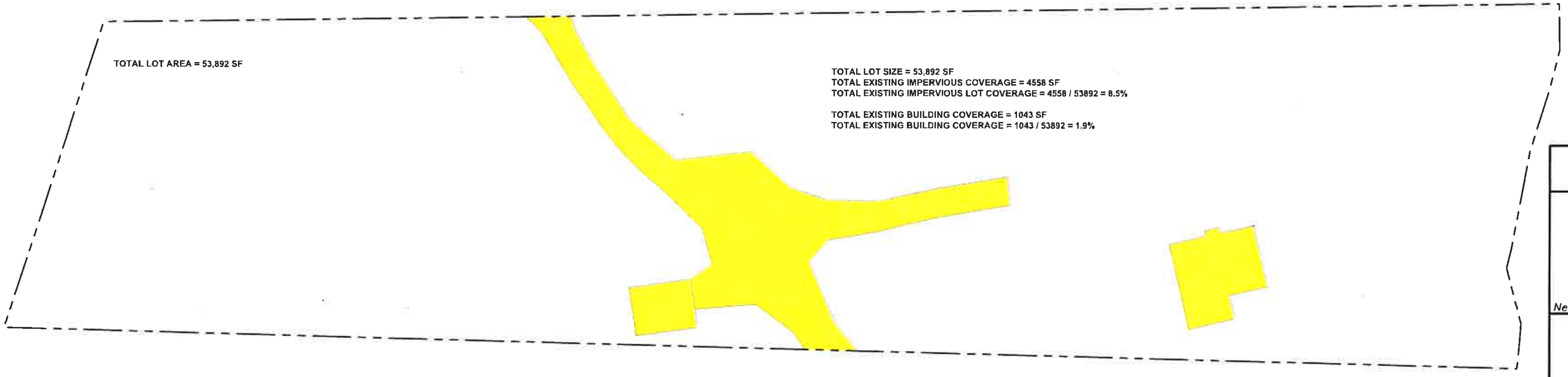
APPROX. DISTURBANCE LIMITS (REG-SETBACK) AREA = 3515 SF

APPROX. DISTURBANCE LIMITS TOTAL AREA = 14,180 SF



TOTAL LOT SIZE = 53,892 SF
TOTAL PROPOSED IMPERVIOUS COVERAGE = 5640 SF
TOTAL PROPOSED IMPERVIOUS LOT COVERAGE = 5640 / 53892 = 10.5%

TOTAL PROPOSED BUILDING COVERAGE = 2592 SF
TOTAL PROPOSED BUILDING COVERAGE = 2592 / 53892 = 4.8%



TOTAL LOT SIZE = 53,892 SF
TOTAL EXISTING IMPERVIOUS COVERAGE = 4558 SF
TOTAL EXISTING IMPERVIOUS LOT COVERAGE = 4558 / 53892 = 8.5%

TOTAL EXISTING BUILDING COVERAGE = 1043 SF
TOTAL EXISTING BUILDING COVERAGE = 1043 / 53892 = 1.9%

20 10 0 20 40 60
Scale in Feet

License No. 20338

DISTURBANCE / COVERAGE LIMITS

130 Workcoeman Road

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Scale:	1" = 20'	Project No.:	20–112	Drawing No.
Drawn By:	RC	File Name:	SSDS–Plan.dwg	4
Revised Through:	08/20/20	Original Submitted:	08/24/20	