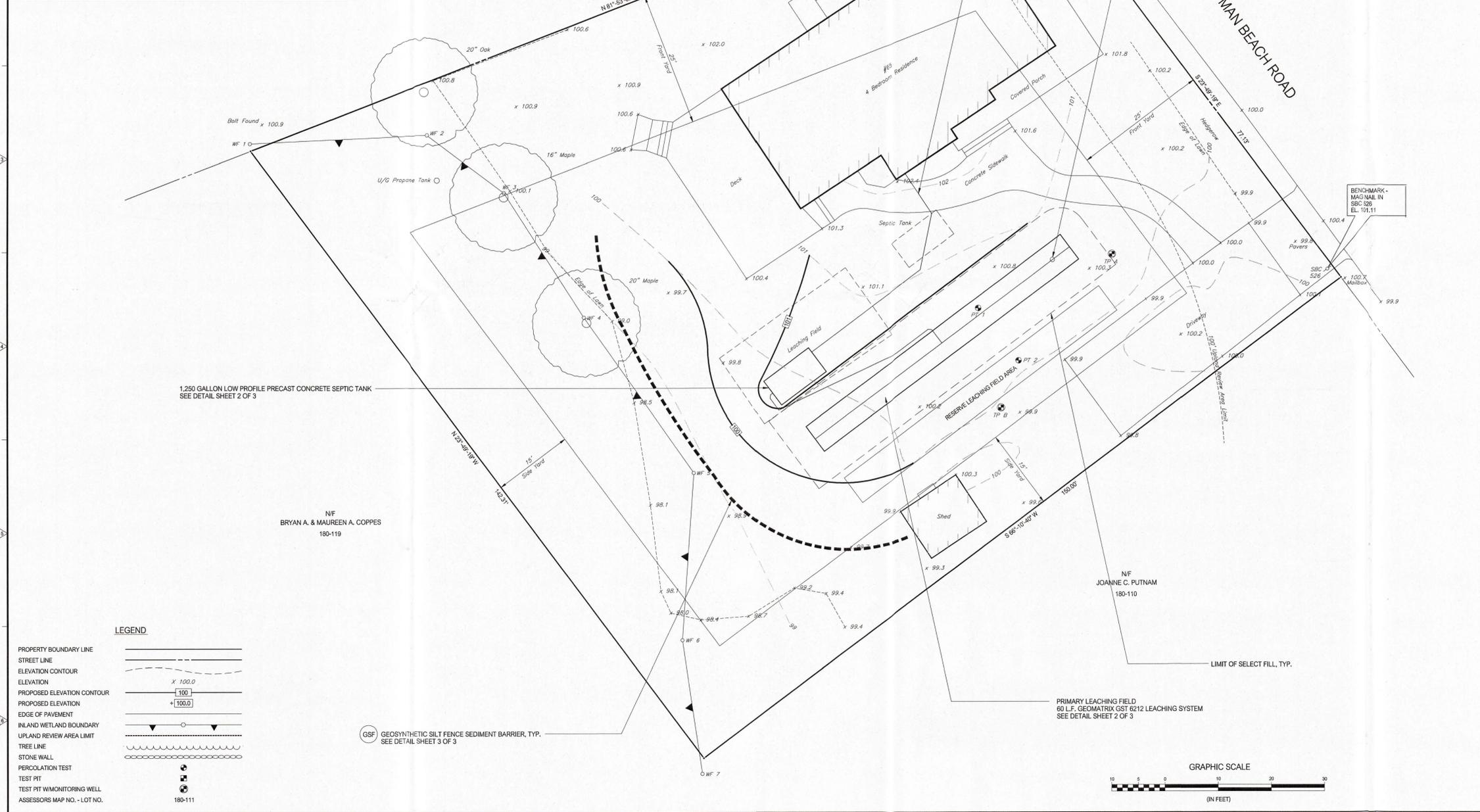


- GENERAL NOTES:**
1. THE PROPERTY BOUNDARY LINE, STREET LINE AND INLAND WETLAND BOUNDARY INFORMATION DEPICTED HEREON HAS BEEN REPRODUCED FROM THE FOLLOWING MAP:
 "SITE PLAN PREPARED FOR MICHAEL J. ZUBRETSKY WESTBROOK, CT.; SHEET 1 OF 1, DATE: SCALE: 1"=10', DATE: 10-11-05, REVISED TO: 1-29-08, PREPARED BY DOANE-COLLINS ENGINEERING ASSOCIATES, LLC.
 2. TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED ON A PARTIAL TOPOGRAPHIC FIELD SURVEY CONDUCTED BY SUMMER HILL CIVIL ENGINEERS & LAND SURVEYORS, P.C. ON 11-13-19.
 3. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM LOCATION INFORMATION DEPICTED HEREON HAS BEEN REPRODUCED FROM RECORDS OF THE PROPERTY OWNER.
 4. THE BEARING SYSTEM IS BASED ON THE REFERENCE MAP NOTED.
 5. ELEVATIONS ARE REFERENCED TO AN ASSUMED VERTICAL DATUM.
 6. PARCEL AREA = 18,189 SF = 0.42 AC, PER THE REFERENCE MAP NOTED.
 7. THE PARCEL IS DEPICTED ON ASSESSORS MAP 180 AS LOT 111.
 8. THE PARCEL IS LOCATED WITHIN A HIGH DENSITY RESIDENTIAL (HDR) ZONING DISTRICT, THE COASTAL AREA MANAGEMENT OVERLAY DISTRICT AND THE FLOOD PLAIN OVERLAY DISTRICT.
 9. THE PARCEL IS LOCATED WITHIN SPECIAL FLOOD HAZARD AREA ZONE AE 10, REFERENCE: FEMA NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP MIDDLESEX COUNTY CONNECTICUT, PANEL 343 OF 450, MAP NUMBER 06009C0343, EFFECTIVE DATE: 8-28-08, MAP REVISED: 2-4-13.
 10. IN GENERAL, EXISTING CONDITIONS AND FEATURES ARE DEPICTED IN SCREENED GRAPHICS AND TITLECASE LETTERING AND PROPOSED WORK IS DEPICTED IN BOLD GRAPHICS AND UPPER CASE LETTERING.
 11. PRIOR TO THE START OF WORK, THOROUGHLY REVIEW THE DRAWINGS, THE SITE OF THE WORK AND ALL EXISTING CONDITIONS AND FEATURES. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS AND FEATURES IN THE FIELD.
 12. ADHERE TO THE REQUIREMENTS OF THE DRAWINGS, ALL APPLICABLE REGULATIONS AND ORDINANCES OF THE TOWN OF WESTBROOK, THE REGULATIONS OF ALL APPLICABLE STATE AND FEDERAL REGULATORY AUTHORITIES, AND THE REQUIREMENTS OF ALL APPROVALS AND PERMITS ISSUED FOR THE PROJECT.
 13. UNDERGROUND UTILITIES, STRUCTURES AND OTHER FACILITIES DEPICTED ON THE DRAWINGS HAVE BEEN COMPILED FROM RECORD MAPPING AND FIELD LOCATIONS OF ABOVE GROUND FACILITIES AND MARKETS. ALL UNDERGROUND FACILITY LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE ONLY AND ALL FACILITIES MAY NOT BE SHOWN.
 14. BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND FOR THE MAINTENANCE AND PROTECTION THEREOF. CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455) PRIOR TO THE START OF WORK TO ESTABLISH AND HAVE MARKED ON THE GROUND THE LOCATION OF ALL UNDERGROUND UTILITIES. NOTIFY THE ENGINEER IN THE EVENT THAT A UTILITY IS LOCATED DURING THE PROGRESS OF THE WORK THAT IS NOT INDICATED ON OR IS NOT IN ACCORDANCE WITH THE DRAWINGS.
- UTILITY COMPANY CONTACTS:**
- | | |
|---|----------------|
| CABLE TELEVISION - COMCAST OF CONNECTICUT, INC. | (413) 642-8582 |
| COMMUNICATIONS - FRONTIER COMMUNICATIONS OF CONNECTICUT | (203) 238-5000 |
| COMMUNICATIONS - LIGHT TOWER FIBER NETWORKS L.L.C. | (203) 649-3904 |
| COMMUNICATIONS - MCI COMMUNICATIONS SERVICES, INC. | (401) 727-8658 |
| ELECTRIC - EVERSOURCE ENERGY | (860) 287-3891 |
| GAS - SOUTHERN CONNECTICUT GAS COMPANY | (203) 785-7787 |
| WATER - CONNECTICUT WATER COMPANY | (860) 292-2834 |
15. PROTECT ALL EXISTING CONDITIONS AND FEATURES WHERE NEW CONSTRUCTION IS NOT SHOWN ON THE DRAWINGS.
 16. PROVIDE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER. THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. LATEST REVISION. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
 17. BE RESPONSIBLE FOR THE CONTROL OF DUST RESULTING FROM CONSTRUCTION OPERATIONS.
 18. IN THE EVENT OF A CONTAMINANT RELEASE, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION EMERGENCY RESPONSE AND SPILL PREVENTION DIVISION (860-424-3338 OR 866-337-7745) AND THE TOWN OF WESTBROOK FIRE MARSHALS OFFICE (860-676-3762).
 19. THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A 6" DEPTH OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED.



NOTE TO CONTRACTOR

REMOVE THE EXISTING SUBSURFACE SEWAGE DISPOSAL SYSTEM BY REMOVING ALL WASTEWATER SOLIDS AND EFFLUENT FROM THE SEPTIC TANK AND REMOVING THE SEPTIC TANK, LEACHING FIELD, PIPING, AND ALL OTHER SYSTEM COMPONENTS AND DISPOSING OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

LEGEND

PROPERTY BOUNDARY LINE	—
STREET LINE	—
ELEVATION CONTOUR	- - -
ELEVATION	x 100.0
PROPOSED ELEVATION CONTOUR	- - -
PROPOSED ELEVATION	+ 100.0
EDGE OF PAVEMENT	—
INLAND WETLAND BOUNDARY	—
UPLAND REVIEW AREA LIMIT	—
TREE LINE	—
STONE WALL	—
PERCOLATION TEST	⊕
TEST PIT	⊕
TEST PIT WITH MONITORING WELL	⊕
ASSESSORS MAP NO. - LOT NO.	180-111

REVISIONS

NO.	DATE	DESCRIPTION

LAND OF
MICHAEL ZUBRETSKY
65 CHAPMAN BEACH ROAD
WESTBROOK, CONNECTICUT

PREPARED BY:
Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

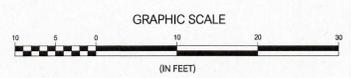
PROJECT:
LAND OF
MICHAEL ZUBRETSKY
65 CHAPMAN BEACH ROAD
WESTBROOK, CONNECTICUT

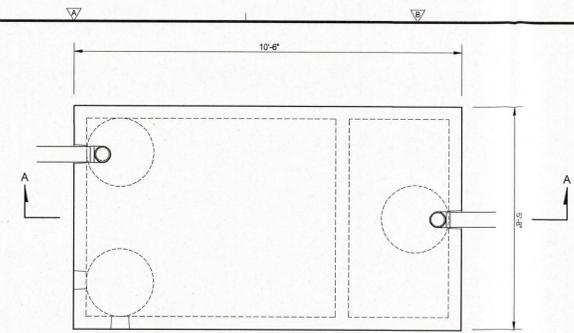
DATE: 7-1-20
SCALE: 1"=10'
DESIGNED: MJO
CHECKED: LJM

SHEET NO.:
1 OF 3

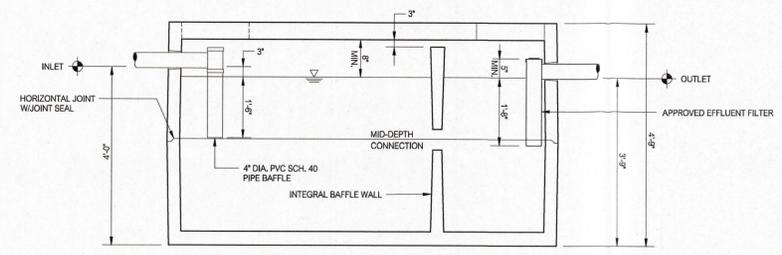
PROJECT NO.: 19-38

RECEIVED
JUL 3 0 2020
WESTBROOK
LAND USE DEPT.





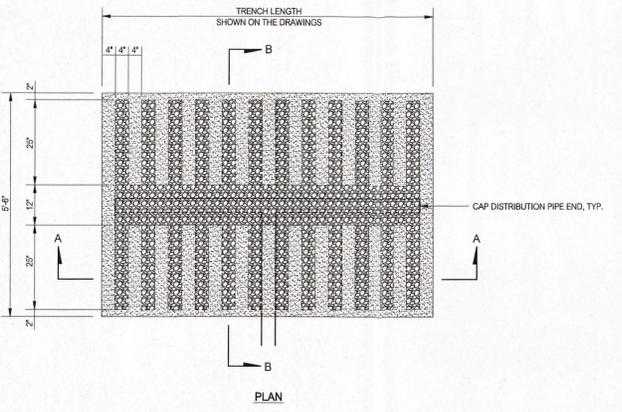
PLAN



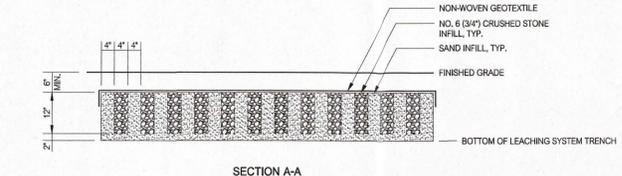
SECTION A-A

1,250 GALLON LOW PROFILE PRECAST CONCRETE SEPTIC TANK
NOT TO SCALE

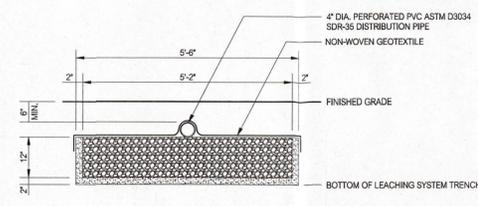
- NOTES:
1. PRECAST CONCRETE SEPTIC TANK STRUCTURE DIMENSIONS SHOWN ARE BASED ON THE TYPICAL SEPTIC TANK DESIGNS OF ESSEX CONCRETE PRODUCTS, INC., ESSEX, CONNECTICUT. SEPTIC TANK STRUCTURE DIMENSIONS OF OTHER PRECAST CONCRETE MANUFACTURERS MAY VARY FROM THOSE SHOWN.
 2. CONCRETE REINFORCEMENT NOT SHOWN.



PLAN



SECTION A-A



SECTION B-B

GST 6212
GEOMATRIX GST LEACHING SYSTEM
NOT TO SCALE

- NOTE:
- INSTALL LEACHING SYSTEM IN ACCORDANCE WITH THE LEACHING SYSTEM MANUFACTURER'S INSTRUCTIONS.

TEST PIT LOGS

- TEST PITS LOGGED BY THE TOWN OF WESTBROOK HEALTH DEPARTMENT ON 11-30-05
- TP 1
- 0' - 5' FILL, TOPSOIL
 - 5' - 15' SANDY FILL
 - 15' - 24' ORIGINAL ORGANIC TOPSOIL
 - 24' - 31' YELLOW BROWN FINE-MEDIUM SANDY SUBSOIL
 - 31' - 54' FINE-MEDIUM GREY SAND
 - 54' - 67' FINE-MEDIUM YELLOW SAND, LITTLE SILT
 - 67' - 84' FINE-MEDIUM CLEAN GREY BEACH SAND
 - GROUNDWATER SEEPING @ 49'
- TP 2
- 0' - 6' TOPSOIL, FILL
 - 6' - 15' SANDY FILL
 - 15' - 25' ORIGINAL TOPSOIL
 - 25' - 37' BROWN FINE SANDY LOAM
 - 37' - 82' WET FINE GREY DENSE SAND (BRICK LIKE), WITH MOTTLES, LENSES OF PINK SAND
 - YELLOW MOTTLED SAND
 - MOTTLING @ 32'
- TP 3
- 0' - 23' TOPSOIL
 - 23' - 33' BROWN FINE SANDY LOAM
 - 33' - 87' GREY BROWN FINE-MEDIUM SAND WITH POCKETS OF VERY FINE DENSE BRICK LIKE SAND AND FINE-MEDIUM YELLOW MOTTLED SAND
 - MOTTLING @ 36'
 - GROUNDWATER SEEPING @ 40'
- TEST PITS LOGGED BY THE TOWN OF WESTBROOK HEALTH DEPARTMENT AND OBSERVED BY THE ENGINEER ON 2-12-20
- TP A
- 0' - 20' FILL
 - 20' - 30' BLACK/DARK BROWN FINE SILT LOAM/TOPSOIL
 - 30' - 42' DAMP DARK GREY FINE-MEDIUM SANDY LOAM
 - 42' - 68' WET ORANGE-BROWN MEDIUM-COARSE SAND
 - NO MOTTLING OBSERVED
 - GROUNDWATER OBSERVED @ 45'
 - NO LEDGE OBSERVED
- TP B
- 0' - 23' FILL
 - 23' - 34' TOPSOIL
 - 34' - 42' DAMP DARK GREY FINE-MEDIUM LOAMY SAND
 - 42' - 67' WET ORANGE-BROWN MEDIUM-COARSE SAND
 - NO MOTTLING OBSERVED
 - GROUNDWATER OBSERVED @ 42'
 - NO LEDGE OBSERVED

PERCOLATION TEST RESULTS

PERCOLATION TESTS CONDUCTED BY THE ENGINEER ON 2-24-20

TP 1

DEPTH OF TEST HOLE: 38 INCHES
PRESOAKED @ 7:30
REFILLED @ 9:15

TIME (MIN)	DEPTH TO WATER (IN)
9:17	12
9:22	13 1/4
9:27	14 1/4
9:32	15 5/8
9:37	17 1/2
9:42	17 7/8
9:47	17 3/4
9:52	18 3/8

PERCOLATION RATE: 8 MINUTES PER INCH

TP 2

DEPTH OF TEST HOLE: 36 INCHES
PRESOAKED @ 7:30
REFILLED @ 9:15

TIME (MIN)	DEPTH TO WATER (IN)
9:17	14 1/2
9:22	16 1/4
9:27	18
9:32	19 5/8
9:37	20 1/2
9:42	21 5/8
9:47	22 1/2
9:52	23 1/2

PERCOLATION RATE: 5 MINUTES PER INCH

DESIGN BASIS

1. DESIGN WASTEWATER FLOW:
 - 4 BEDROOM RESIDENCE = 450 GAL/DAY
 - 3 BEDROOMS X 150 GAL/DAY/BEDROOM = 75 GAL/DAY
 - 1 BEDROOM X 150 GAL/DAY/BEDROOM = 150 GAL
 - TOTAL = 625 GAL/DAY
2. MINIMUM SEPTIC TANK VOLUME:
 - 3 BEDROOMS = 1,000 GAL
 - 1 BEDROOMS X 125 GAL/BEDROOM = 125 GAL
 - TOTAL = 1,125 GAL
 - SEPTIC TANK VOLUME PROVIDED: 1,250 GAL
3. DESIGN PERCOLATION RATE: <10.1 MIN/IN
4. EFFECTIVE LEACHING AREA REQUIRED:
 - 3 BEDROOMS = 495 SF
 - 1 BEDROOM X 82.5 SF/BEDROOM = 82.5 SF
 - TOTAL = 577.5 SF
5. EFFECTIVE LEACHING AREA PROVIDED:
 - 60 LF GEOMATRIX GST 6212 X 10.0 SF/LF = 600 SF
6. MINIMUM LEACHING SYSTEM SPREAD (MLSS):
 - HYDRAULIC FACTOR (HF): ASSUME HYDRAULIC GRADIENT = AVERAGE GROUND SURFACE SLOPE = 2.1% - 3.0%
 - RECOVERING SOIL DEPTH TO RESTRICTIVE LAYER: 30.1 IN - 36 IN
 - HF = 34
 - FLOW FACTOR (FF): 525 GAL/DAY/300 = 1.75
 - PERCOLATION FACTOR (PF): ≤10.0 MIN/IN = 1.00
 - MLSS = HF X FF X PF = 34 X 1.75 X 1.00 = 60 LF
 - MLSS PROVIDED: 60 LF

SUBSURFACE SEWAGE DISPOSAL SYSTEM ELEVATIONS

ITEM	ELEVATION
BUILDING SEWER INVERT AT EXTERIOR FACE OF FOUNDATION WALL	100.83
SEPTIC TANK	
INLET INVERT	99.83
OUTLET INVERT	99.58
TOP LEACHING SYSTEM	99.17
BOTTOM LEACHING SYSTEM TRENCH	98.00

SUBSURFACE SEWAGE DISPOSAL SYSTEM NOTES:

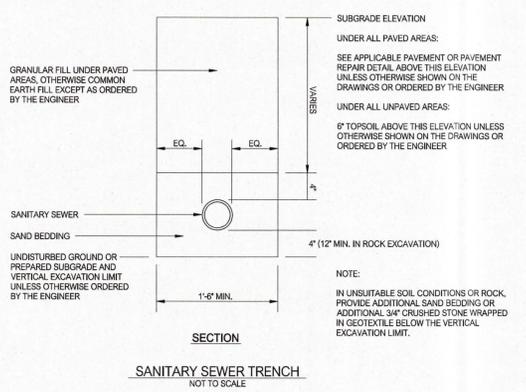
1. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "CONNECTICUT PUBLIC HEALTH CODE ON-SITE SEWAGE DISPOSAL REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS" (TECHNICAL STANDARDS), LATEST REVISION AND THE REQUIREMENTS OF THE TOWN OF WESTBROOK CODE OF ORDINANCES CHAPTER 18, ARTICLE III, SECTION 18-36 (b) REGARDING BUILDING CONVERSIONS FROM SEASONAL TO CONTINUOUS USE.
2. WITH RESPECT TO THE REQUIREMENTS OF THE TECHNICAL STANDARDS, THERE ARE NO KNOWN CONFLICTS WITH THE DESIGN OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
3. NO DEVIATION FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE ALLOWED WITHOUT THE APPROVAL OF THE TOWN OF WESTBROOK HEALTH DEPARTMENT AND THE ENGINEER.
4. CONTACT THE TOWN OF WESTBROOK HEALTH DEPARTMENT PRIOR TO THE START OF WORK TO OBTAIN AN APPROVAL TO CONSTRUCT FOR THE SUBSURFACE SEWAGE DISPOSAL SYSTEM AND TO ARRANGE FOR A SCHEDULE OF INSPECTIONS DURING THE PROCESS OF THE WORK.
5. CONTACT THE ENGINEER PRIOR TO THE START OF WORK TO SCHEDULE THE CONSTRUCTION STAKING OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
6. NOTIFY THE TOWN OF WESTBROOK HEALTH DEPARTMENT AND THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE OF THE START OF WORK AND IN ADVANCE OF ALL REQUIRED INSPECTIONS.
7. NOTIFY THE TOWN OF WESTBROOK HEALTH DEPARTMENT AND THE ENGINEER SHOULD SOIL OR GROUNDWATER CONDITIONS BE ENCOUNTERED THAT DIFFER FROM THOSE INDICATED IN THE TEST PIT LOGS PROVIDED ON THE DRAWINGS.
8. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM HAS NOT BEEN DESIGNED TO INCLUDE THE SEPTIC TANK CAPACITY REQUIRED TO ALLOW THE INSTALLATION OF LARGE CAPACITY (100-200 GALLON) BATH OR SPA TUBS WITHIN THE BUILDING SERVED.
9. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM HAS NOT BEEN DESIGNED TO ACCOMMODATE THE INSTALLATION OF GARBAGE GRINDERS WITHIN THE BUILDING SERVED.
10. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM HAS BEEN DESIGNED TO PROVIDE A MINIMUM EARTH COVER DEPTH OVER THE SEPTIC TANK OF SIX (6) INCHES. IF THE SEPTIC TANK IS INSTALLED SUCH THAT THE EARTH COVER DEPTH IS GREATER THAN TWELVE (12) INCHES, RISERS TO GRADE SHALL BE REQUIRED TO BE CONSTRUCTED OVER THE SEPTIC TANK INLET AND OUTLET. RISER ACCESS COVERS SHALL BE WATER-TIGHT AND HOLED OR LOCKING TYPE. THE SEPTIC TANK MANUFACTURER CONCRETE ACCESS COVERS SHALL REMAIN INSTALLED ON THE SEPTIC TANK.
11. WITHIN THE LEACHING FIELD AREA, REMOVE TOPSOIL AND UNSUITABLE SOILS WITHIN THE HORIZONTAL LIMITS AND TO THE SELECT FILL SUBGRADE ELEVATION SHOWN ON THE DRAWINGS. DO NOT ALLOW RUBBER TYPED EQUIPMENT OR VEHICLES ON THE LEACHING FIELD SUBGRADE SOIL AREA ONCE TOPSOIL AND UNSUITABLE SOILS HAVE BEEN REMOVED. SCARIFY THE SUBGRADE SOIL AREA TO A DEPTH ADEQUATE TO REMOVE SOIL COMPACTION THAT MAY HAVE OCCURRED DURING TOPSOIL AND UNSUITABLE SOILS REMOVAL OPERATIONS.
12. PLACE SELECT FILL IN A MANNER THAT PREVENTS OVER COMPACTION OF THE LEACHING FIELD SUBGRADE SOIL AREA. PLACE SELECT FILL BY PUSHING THE MATERIAL IN FROM THE PERIMETER OF THE AREA USING TRACK MOUNTED EQUIPMENT MAINTAINING AT LEAST TWELVE (12) INCHES OF SELECT FILL UNDER THE EQUIPMENT TRACKS AT ALL TIMES. PLACE SELECT FILL IN LAYERS NOT EXCEEDING TWELVE (12) INCHES IN DEPTH (LOOSE LAYER THICKNESS). COMPACT EACH LAYER OF SELECT FILL WITH SUITABLE EQUIPMENT CAPABLE OF ACHIEVING A DRY DENSITY OF 90 PERCENT OF THE MAXIMUM DRY DENSITY FOR THE MATERIAL AS DETERMINED BY COMPACTION TESTING CONFORMING TO ASTM D1557, METHOD C.
13. PREVENT SEDIMENT FROM ENTERING THE LEACHING FIELD AREA DURING THE CONSTRUCTION PERIOD THROUGH THE USE OF TEMPORARY EARTH BERMS AND/OR OTHER EROSION AND SEDIMENT CONTROL MEASURES.
14. CONTACT THE ENGINEER PRIOR TO COVERING THE SUBSURFACE SEWAGE DISPOSAL SYSTEM TO SCHEDULE THE RECORD FIELD SURVEY OF THE SYSTEM.
15. THE COMPLETED SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE COVERED AS SOON AS IS PRACTICABLE FOLLOWING THE FINAL INSPECTION AND APPROVAL BY THE TOWN OF WESTBROOK HEALTH DEPARTMENT AND THE ENGINEER.
16. THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A SIX (6) INCH DEPTH OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED.
17. A RECORD DRAWING OF THE COMPLETED SUBSURFACE SEWAGE DISPOSAL SYSTEM PREPARED BY THE ENGINEER SHALL BE SUBMITTED TO THE TOWN OF WESTBROOK HEALTH DEPARTMENT PRIOR TO THE ISSUANCE OF A PERMIT TO DISCHARGE WASTEWATER TO THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.

MATERIAL REQUIREMENTS:

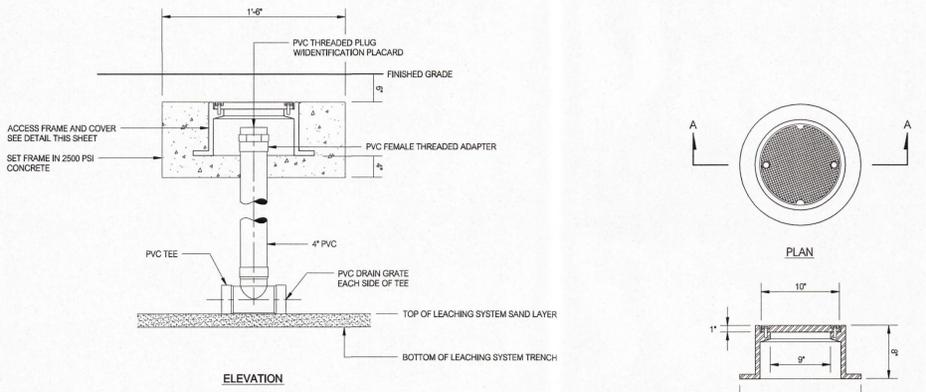
- ALL MATERIALS SHALL MEET THE REQUIREMENTS OF THE TECHNICAL STANDARDS AND THE FOLLOWING REQUIREMENTS:
1. PRECAST CONCRETE PRODUCTS:
 - SEPTIC TANKS AND PUMP CHAMBERS: ASTM C1227 STANDARD SPECIFICATION FOR CONCRETE SEPTIC TANKS. SEALS AT PIPE AND CONDUIT PENETRATIONS SHALL BE WATER-TIGHT TYPE MEETING THE REQUIREMENTS OF ASTM C1644 STANDARD SPECIFICATION FOR RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE ON-SITE WASTEWATER TANKS AND PIPE.
 - LEACHING CHAMBERS: ASTM C913 STANDARD SPECIFICATION FOR PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES.
 2. POLYVINYL CHLORIDE (PVC) PIPE:
 - BUILDING SEWER AND FORCE MAIN PIPE: ASTM D1785 STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) SCHEDULES 40, 80, AND 120, SOLID WALL, WITH SOLVENT WELD FITTINGS AND JOINTS.
 - EFFLUENT SEWER AND DISTRIBUTION PIPE: ASTM D3034 STANDARD SPECIFICATION FOR TYPE F90 POLY(VINYL CHLORIDE) (PVC) SEWER PIPE AND FITTINGS, STANDARD DIMENSION RATIO 36, SOLID WALL, WITH BELL AND SPIGOT RUBBER COMPRESSION GASKET FITTINGS AND JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 STANDARD SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS, OR SOLVENT WELD FITTINGS AND JOINTS, AND PERFORATED WITH BELL AND SPIGOT JOINTS.
 3. GEOTEXTILES:
 - NON WOVEN SEPARATION/FILTRATION FABRIC COMPRISED OF PERVIOUS SHEETS OF POLYESTER, POLYPROPYLENE, OR POLYETHYLENE FABRICATED INTO A STABLE NETWORK OF FIBERS THAT RETAIN THEIR RELATIVE POSITION WITH RESPECT TO EACH OTHER. NONWOVEN GEOTEXTILE SHALL BE COMPOSED OF CONTINUOUS OR DISCONTINUOUS (STAPLE) FIBERS HELD TOGETHER THROUGH NEEDLE PUNCHING, SPIN-BONDING, THERMAL-BONDING, OR RESIN-BONDING.
- MINIMUM AVERAGE ROLL VALUES: ACCEPTABLE MANUFACTURERS AND TYPES:
- | PROPERTY | DESIGN VALUE | TEST METHOD | MIRAFI 65003, 65034
TEREXTEX S01.5, P01.5
TYPAR 3151, 3201 |
|-----------------------|---------------|-------------|--|
| TENSILE STRENGTH | 120 LBS | ASTM D4632 | |
| ELONGATION | 50% | ASTM D4632 | |
| TRAPEZOIDAL TEAR | 50 LBS | ASTM D4633 | |
| MULLEN BURST STRENGTH | 225 PSF | ASTM D5786 | |
| PUNCTURE STRENGTH | 65 LBS | ASTM D4633 | |
| A.O.S. | 70 (US SIEVE) | ASTM D4751 | |
| PERMITTIVITY | 1.8 SEC-1 | ASTM D4491 | |
4. STONE AGGREGATE:
 - CLEAN, WASHED CRUSHED OR BROKEN STONE OF THE SIZES SHOWN ON THE DRAWINGS MEETING THE GRADATION REQUIREMENTS OF SECTION M.02.01 AND THE REQUIREMENTS OF SECTION M.02.08.3 AND M.02.08.4 REGARDING RESISTANCE TO ABRASION AND SOUNDNESS RESPECTIVELY OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM B17, 2016, LATEST REVISION, INCLUDING ALL SUPPLEMENTS THERETO.
 5. SAND:
 - CLEAN SAND MEETING THE PARTICLE SIZE GRADATION REQUIREMENTS OF ASTM C33 STANDARD SPECIFICATION FOR CONCRETE AGGREGATES:

SIEVE SIZE	PERCENT PASSING
3/8"	100
#4	95 - 100
#8	80 - 100
#16	50 - 85
#30	25 - 60
#60	5 - 30
#100	0 - 10
#200	0 - 5
 6. SELECT FILL:
 - CLEAN, SAND OR SAND AND GRAVEL MATERIAL FREE FROM DEBRIS, ICE, SNOW, FROZEN LUMPS, VEGETATION, STUMPS, ROOTS, OR OTHER ORGANIC MATERIALS, CONTAINING NO MATERIAL LARGER THAN THE THREE (3) INCH SIEVE, AND MEETING THE FOLLOWING PARTICLE SIZE GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING	
#4	100	100
#10	70 - 100	70 - 100
#40	10 - 50	10 - 75
#100	0 - 20	0 - 5
#200	0 - 5	0 - 2.5
 7. COMMON FILL:
 - CLEAN, FRAGILE, NON-PLASTIC IN-ORGANIC SOIL MATERIAL CONTAINING NO STONE GREATER THAN TWO THIRDS (2/3) OF THE REQUIRED LOOSE LIFT THICKNESS. THE MATERIAL SHALL BE FREE FROM DEBRIS, ICE, SNOW, FROZEN LUMPS, VEGETATION, STUMPS, ROOTS, OR OTHER ORGANIC MATERIALS.

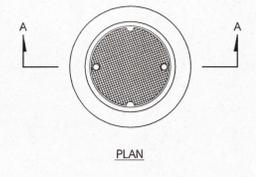


SANITARY SEWER TRENCH
NOT TO SCALE

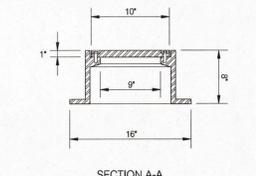


INSPECTION PORT DETAIL
GEOMATRIX GST LEACHING SYSTEM
NOT TO SCALE

- NOTE:
1. INSPECTION PORT PIPE MATERIAL: 4" DIA. SOLID WALL SCH. 40 PVC ASTM D1785.
 2. PVC THREADED PLUG WITH IDENTIFICATION PLACARD AND PVC TEE WITH DRAIN GRATES SUPPLIED BY THE LEACHING SYSTEM MANUFACTURER.
 3. INSTALL INSPECTION PORT IN ACCORDANCE WITH THE LEACHING SYSTEM MANUFACTURER'S INSTRUCTIONS.



PLAN



SECTION A-A

ACCESS FRAME AND COVER
NOT TO SCALE

- NOTE:
- HEAVY DUTY, BOLTED COVER ACCESS FRAME AND COVER PATTERN NUMBER 4155, CAMPBELL FOUNDRY COMPANY, NORTH HAVEN, CONNECTICUT OR APPROVED EQUAL.

NO.	DATE	DESCRIPTION
REVISIONS		

REVISIONS	TITLE

LAND OF
MICHAEL ZUBRETSKY
65 CHAPMAN BEACH ROAD
WESTBROOK, CONNECTICUT

PREPARED BY:
Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722



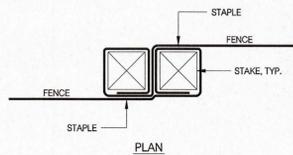
PERMIT DRAWINGS

PROJECT: LAND OF MICHAEL ZUBRETSKY
65 CHAPMAN BEACH ROAD
WESTBROOK, CONNECTICUT

DATE: 7-1-20
SCALE: AS NOTED
DESIGNED: MJO
CHECKED: LJM

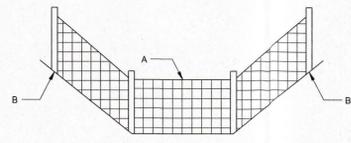
SHEET: 2 OF 3

PROJECT NO.: 19-39



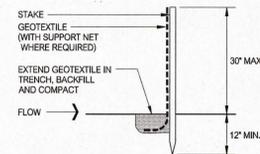
FENCE JOINT DETAIL

NOTE:
DRIVE STAPLES TIGHTLY TOGETHER AND SECURE TOPS OF STAPLES WITH COPD OR WIRE TO PREVENT FLOW-THROUGH OF SEDIMENT.

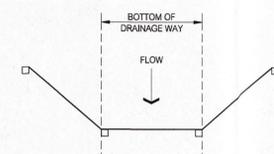


ELEVATION

NOTE:
WHEN NOT INSTALLED ON THE CONTOUR OR WHEN INSTALLED IN A DRAINAGE WAY, THE ELEVATION OF POINTS B SHALL BE HIGHER THAN POINT A.



SECTION

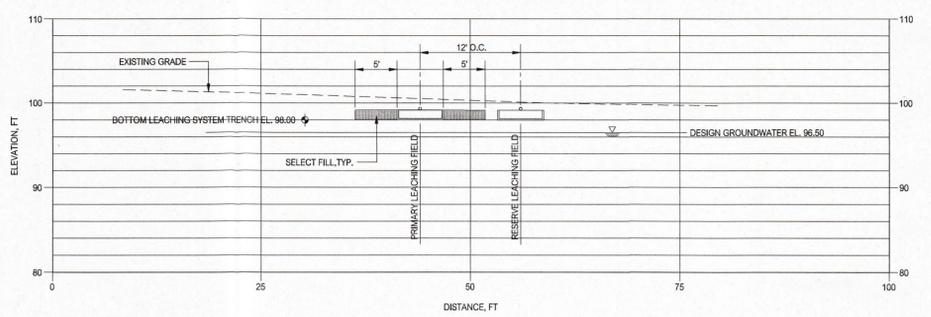


PLAN

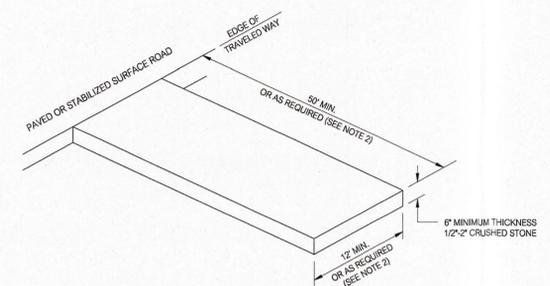
GSF GEOTEXTILE SILT FENCE
NOT TO SCALE

- EXCAVATE 6" DEEP TRENCH FOR LENGTH OF THE FENCE.
- EXTEND 6' LENGTH OF GEOTEXTILE INTO TRENCH, BACKFILL AND COMPACT.
- AS AN ALTERNATE METHOD, EXTEND LENGTH OF GEOTEXTILE HORIZONTALLY ON EXISTING GROUND, RAMP SOIL OVER GEOTEXTILE AND COMPACT.

- INSPECT FENCE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.



TYPICAL LEACHING FIELD SECTION
SCALE: 1"=10'



CE CONSTRUCTION ENTRANCE
NOT TO SCALE

- NOTES:
- CLEAR AND GRUB AREA AND REMOVE TOPSOIL BEFORE PLACEMENT OF CRUSHED STONE LAYER. A GEOTEXTILE MAY BE REQUIRED TO STRENGTHEN SUBGRADE SOILS AND TO PREVENT STONE MOVEMENT AND LOSS OF VOIDS WITHIN THE STONE ENTRANCE WHERE REQUIRED.
 - LENGTH OF ENTRANCE MAY BE LIMITED BY SITE CONDITIONS. PROVIDE ADEQUATE WIDTH OF ENTRANCE AT ROAD INTERSECTION TO ACCOMMODATE THE TURNING MOVEMENTS OF CONSTRUCTION VEHICLES.
 - MAINTAIN ENTRANCE SO AS TO PREVENT TRACKING OR WASHING OF SEDIMENT ONTO ROAD. SEDIMENT THAT MAY BE TRACKED OR OTHERWISE DEPOSITED WITHIN THE ROAD SHALL BE REMOVED IMMEDIATELY.
 - MAINTENANCE MAY INCLUDE THE REQUIREMENT FOR TOP DRESSING THE CRUSHED STONE LAYER OR REPLACING THE FULL DEPTH OF THE CRUSHED STONE LAYER.
 - SHOULD SITE CONDITIONS BE SUCH THAT SOIL CANNOT BE REMOVED BY VEHICLES TRAVELING OVER THE ENTRANCE, THE TIRES OF VEHICLES MAY HAVE TO BE WASHED PRIOR TO VEHICLES ENTERING THE ROAD. ALL WASH WATER SHALL BE DIRECTED THROUGH AN APPROVED SEDIMENT FILTER OR TO A SEDIMENT BASIN.

REVISIONS	
NO.	DATE

TITLE: LAND OF MICHAEL ZUBRETSKY
65 CHAPMAN BEACH ROAD
WESTBROOK, CONNECTICUT

PREPARED BY: Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722



PERMIT DRAWINGS			
PROJECT: LAND OF MICHAEL ZUBRETSKY 65 CHAPMAN BEACH ROAD WESTBROOK, CONNECTICUT			
GATE: 7-1-20	SHEET: DETAILS	SHEET NO.: 3 OF 3	
SCALE: AS NOTED	PROJECT NO.: 19-38		
DESIGNED: MJO	FIELD BOOK: -	CHECKED: LJM	