

MINIMUM SEPARATING DISTANCES FROM SEPTIC SYSTEMS

1. BUILDING SERVED - TO LEACHING SYSTEM:	NO FOOTING DRAIN	15'
	W/ANY DOWNGRADIENT DRAINAGE SYSTEM (CLOSE, OPEN JOINTED), PERFORATED, SLOTTED, PERVIOUS OR FREE DRAINING BACKFILL MATERIAL	50'
	NO FOOTING DRAIN	25'
	W/FOOTING DRAIN	15'
2. HUMAN HABITATION OTHER THAN BUILDING SERVED		15'
3. ANY OPEN WATER COURSE, SUBDIVISION PRIOR TO AUGUST 16, 1982		25'
	SUBDIVISION AFTER AUGUST 16, 1982	50'
4. PUBLIC WATER SUPPLY RESERVOIR		100'
5. WELL, SPRING OR DOMESTIC WATER SUCTION PIPE	A) WHEN PFC RATE OF SOIL IS FASTER THAN 1 MIN/INCH	150'
	B) REQUIRED WITHDRAWAL RATE	
	UNDER 10 GAL. PER MINUTE	75'
	10 TO 50 GAL. PER MINUTE	150'
	OVER 50 GAL. PER MINUTE	200'
6. ANY SURFACE OR GROUNDWATER DRAIN CONSTRUCTED OF SOLID PIPE	"CLOSE OR OPEN JOINTED PIPE DRAIN DOWN GRADIENT OF SYSTEM	50'
	SOLID PVC PIPE, GULVED OR WITH RUBBER COMPRESSION GASKET SEAL	10'
7. TOP OF CUT OR FILLED EMBANKMENT		10'
8. PROPERTY LINE	DOWN GRADIENT	25'
	UP GRADIENT	10'
9. POTABLE WATER AND/OR IRRIGATION LINES UNDER PRESSURE		10'
10. ACCESSORY STRUCTURE (NO FOOTINGS OR FOUNDATION DRAINS)		10'
11. BELOW GROUND SWIMMING POOL		25'
	ABOVE GROUND SWIMMING POOL	10'

MANTIS 536-8 STANDARD SPECIFICATIONS

EFFECTIVE LEACHING AREA	11 sf/lf
SIZE (W x L x H)	36"x 60"x18"
INVERT HEIGHT	12"
WEIGHT	35 lbs
MAXIMUM DEPTH	8'

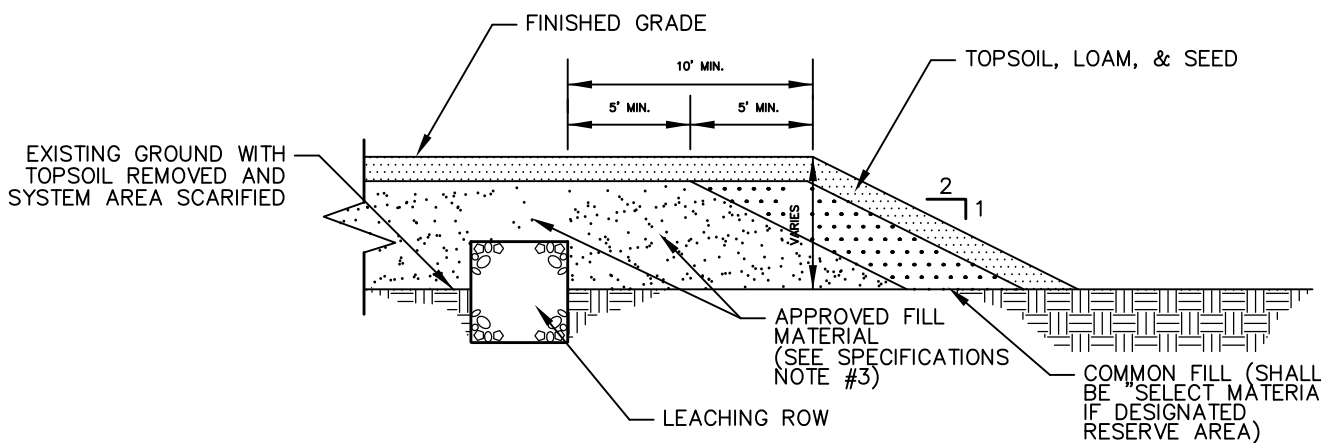
ELJIN MANTIS WASTEWATER SYSTEM 536-8 STANDARD

ELJIN MANTIS SPECIFIED SAND REQUIREMENTS

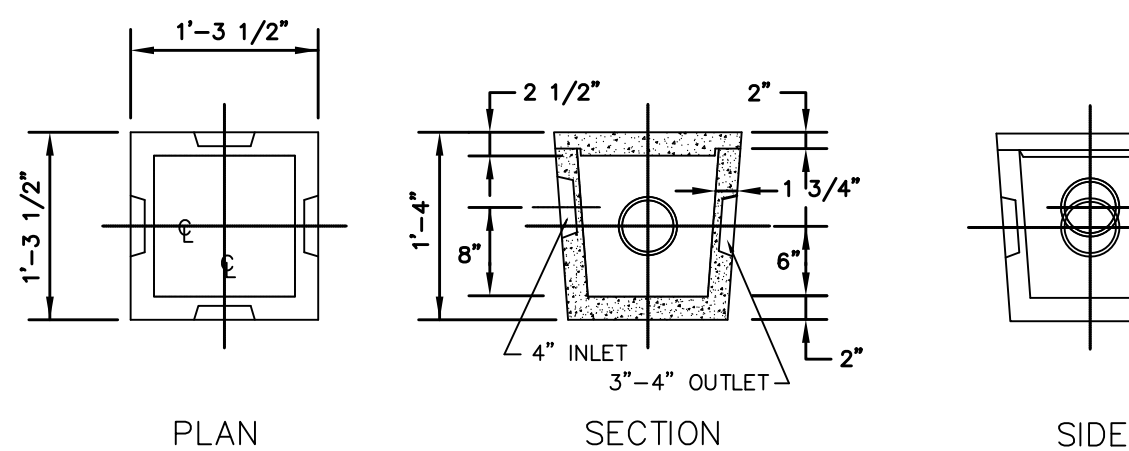
The specified sand envelope around the Mantis units (6" minimum underneath and sides, 1" on the top and 3" in-between the support modules) shall meet the requirements as indicated in the Eight Sand Specified Sand Requirements Chart listed below. This sand is a medium to coarse textured washed, silica sand with less than 10% passing a #100 sieve and less than 5% passing a #200 sieve base on a wet sieve analysis.

SIEVE SIZE	SIEVE SQUARE OPENING SIZE (mm)	PERCENT PASSING MET. SIEVE
.375"	9.5	100%
#4	4.75	95%-100%
#5	2.36	80%-100%
#16	1.18	50%-85%
#30	600um	25%-60%
#50	300um	5%-30%
#100	150um	<10%
#200	75um	<5%

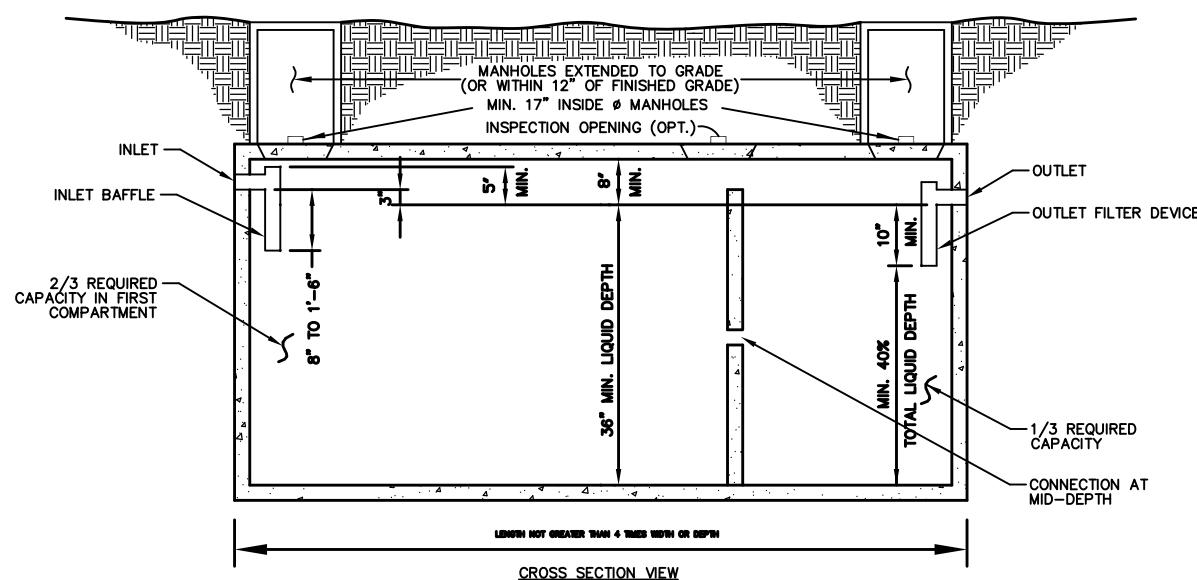
Request a sieve analysis from your material supplier to ensure that the system sand meets the specification requirements listed above



DETAIL FOR SYSTEMS IN FILL
(DIMENSIONS AND TYPES MAY VARY)



DISTRIBUTION BOX DETAIL
(DIMENSIONS AND TYPES MAY VARY)

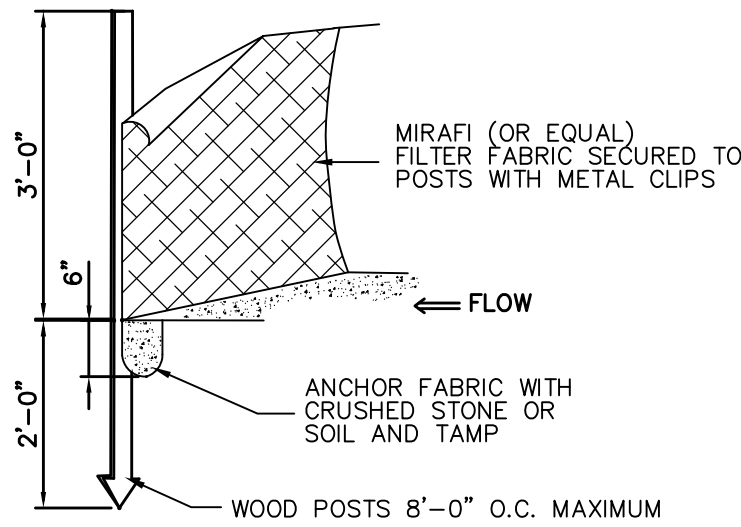


DOUBLE CHAMBER SEPTIC TANK DETAIL
(DIMENSIONS AND TYPES MAY VARY)

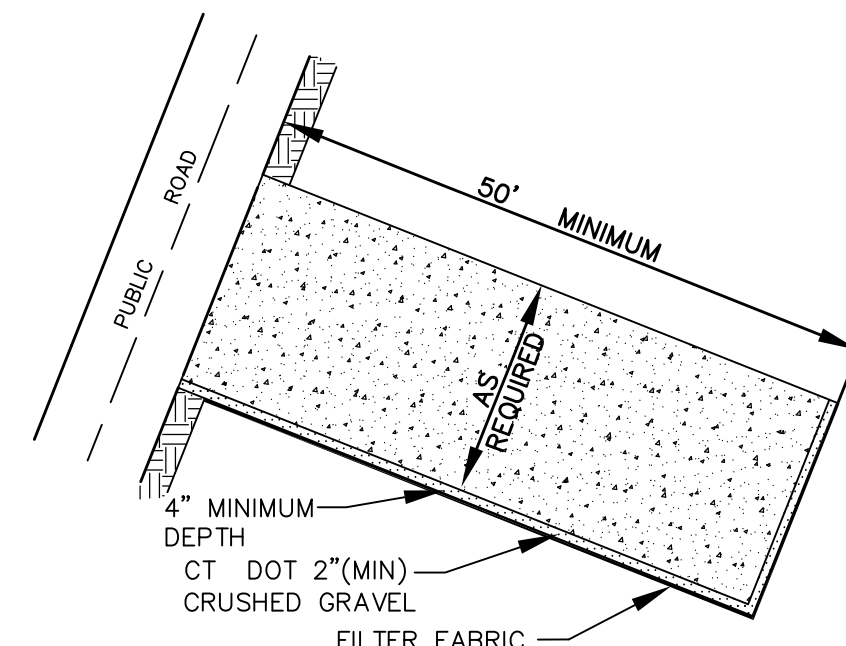
MINIMUM SIZE

3 BEDROOMS	- 1000 GALLONS
4 BEDROOMS	- 1250 GALLONS
5 BEDROOMS	- 1500 GALLONS

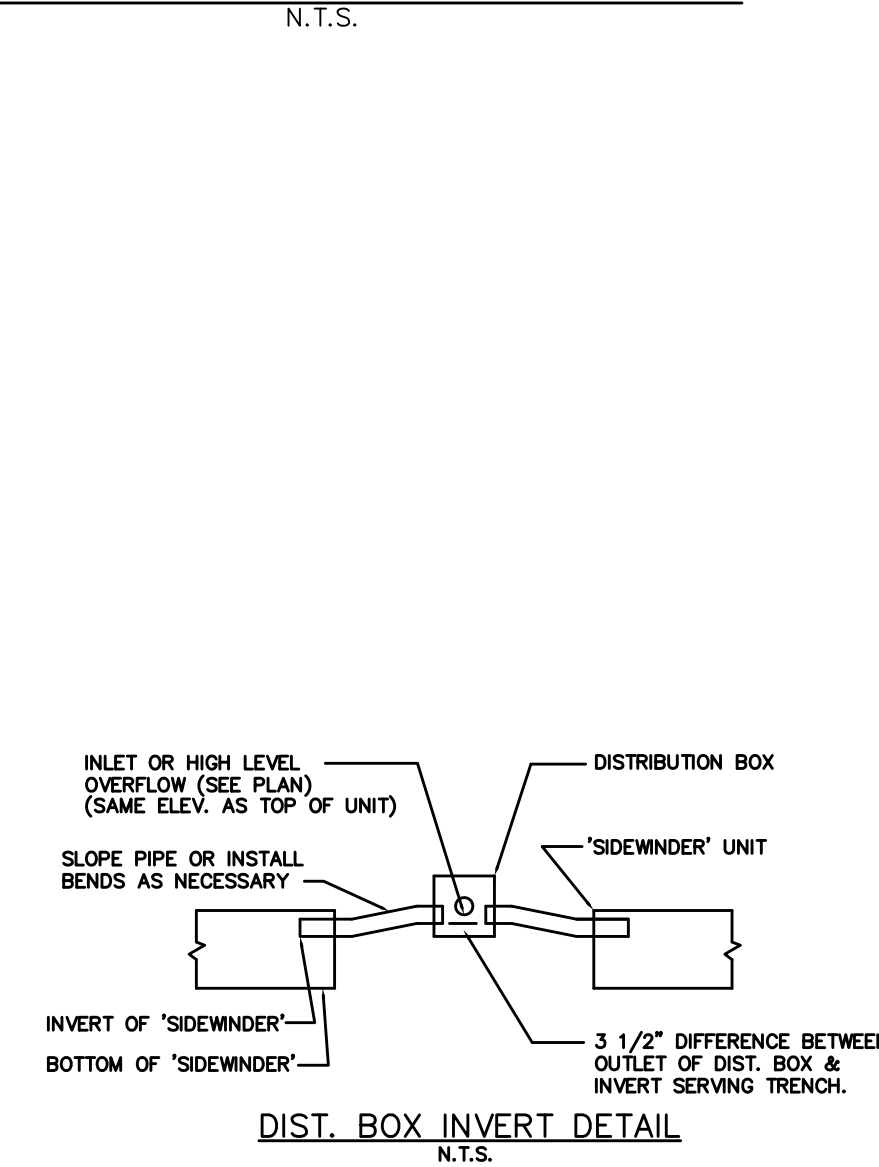
NOTE: ALL SEPTIC TANKS INSTALLED AFTER JANUARY 1, 1990



SILT FENCE DETAIL
N.T.S.



CONSTRUCTION ENTRANCE DETAIL
N.T.S.



DIST. BOX INVERT DETAIL
N.T.S.

Standard Plot Plan Notes:

1. Future Parcel Owner: Lisa Dumond
2. 7 Holy Lane, Prospect, Ct.
3. The Indicated Existing Utilities are Based upon Limited Information. The Locations are Approximate and Not Guaranteed. All Utilities May Not Be Shown. Prior to Any Excavation, the Contractor shall Notify "CALL BEFORE YOU DIG" @ 1 800 922 4455.
4. Contractor Required to Field Verify All Dimensions, Elevation, Quantities and Details Prior to Any Construction.
5. Install erosion control, strip topsoil, stockpile (if needed) and install system.
6. If a "fill system" is proposed, the area over the proposed system shall be scarified prior to the placement of approved septic fill.
7. If different soil conditions are observed during construction, immediately notify Jones Engineering @ 860-621-0700.
8. System is to be installed in accordance with the proposed elevations depicted on this plan and shall be inspected by the attending sanitarian prior to backfilling.
9. Grade site as to direct runoff away from the proposed house and septic system.
10. Sanitary pipe from house to septic tank shall be 4" Sch. 40 PVC (ASTM D-1785). Effluent distribution pipe leaving the tank and to the leaching system to be 4" SDR 35 (ASTM D-3034).
11. Tight joint footing drain pipe shall be 6" SDR 35 (ASTM D-3034) solid pipe or approved equal if within 25' of the proposed septic system.
12. Contractor or workers shall not drive over or park any equipment or vehicles over any part of the proposed system, or the area down gradient of the proposed system. The septic installer may do so only during construction of the proposed system.
13. An onsite footing drain inspection may determine a footing drain is required.
14. Benchmark to be set at time of stakeout.
15. No known pollution source is within 100' of a proposed well. All known existing wells and septic systems on adjacent properties are over 75' away.
16. Domestic wells shall be 25 feet from perforated footing drains.

Erosion & Sedimentation Notes:

1. Land disturbance shall be kept to a minimum. Re-stabilization shall be scheduled as soon as practicable. For those areas which are left exposed for more than 30 days, temporary seeding for stabilization shall be utilized. Annual Fescuegrass (or an approved equal) may be utilized.
2. Slopes shall be restricted to 2" horizontal to 1" vertical (maximum) or flatter through grading and/or retaining walls.
3. Disturbed areas, except paved areas, shall be loamed (4" min. depth) and seeded or mulched.
4. All erosion and sedimentation control measures shall be constructed in accordance with the standards and specification of the erosion and sedimentation control handbook as amended to date.
5. The application and specific details of the erosion and sedimentation control shall follow the CT council on soil and water conservation manual entitled "2002 Connecticut Guidelines for Soil and Erosion Control", as amended to date.
6. All control measures shall be maintained in effective condition throughout the construction period.
7. Additional control measures shall be installed during the construction period if deemed necessary by the Town Planner and/or the Town Engineer.
8. Sedimentation barriers to be "Fibretex" 150 Grade, Staked Haybales, Silt Sox, or Approved Equal.
9. Sedimentation barrier to be installed as shown on this plan prior to any construction. Individual Plot Plans for each lot shall contain detailed delineation of siltation barriers, including any additional erosion controls as deemed necessary.
10. Contractor is responsible for correcting any unforeseen field conditions.
11. All construction shall conform to the standards of the municipality.
12. Lisa Dumond or its duly authorized agent is responsible for notifying the Town Planning and Engineering Departments at least Twenty Four (24) hours in advance of the start of any construction activity.
13. Bruce Anderson or its duly authorized agent is assigned the responsibility for implementing this erosion and sedimentation control plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, notifying the Town Planning and Engineering Offices of any transfer of this responsibility, and for conveying a copy of the erosion and sediment control plan if the title of the land is transferred.
14. Sediment control: Temporary pervious barriers, using Hay Bales, Silt Fences or Silt Sox, held in place with wooden stakes shall be used at all areas where storm water containing suspended sediment could drain off site.
15. Silt Fences, Hay Bales and/or Silt Sox to be installed prior to commencement of construction operations. Any Damaged Barriers shall be replaced and/or reset immediately following damage.
16. Pursuant to the regulations, a layer of topsoil shall be spread over the excavated area, loamed and seeded, four (4) inches minimum in depth in accordance with the approved contour plan.
17. Catch basin maintenance schedule: Sediment to be extracted from sump(s) Bi-Yearly in the Spring and Fall and disposed of in an environmentally acceptable manner.
18. If over five (5) acres are to be disturbed at one time, the site contractor shall obtain a NPDES storm water permit.
19. Every reasonable precaution shall be exercised throughout the period of driveway construction to prevent, control and abate erosion, siltation, sedimentation and pollution of all waters.

ENGINEER'S SEAL

NOT VALID UNLESS EMBOSSED SEAL IS AFFIXED HEREON.

FRANK J. CAHILL P.E. #22896

REVISIONS

DATE	DATE	DATE	DATE	DATE	DATE

JONES ENGINEERING LLC
CIVIL ENGINEERING & LAND SURVEYING

92 NORTH SUMMIT ST., SUITE 2A
P.O. BOX 249
SOUTHINGTON, CT 06489

PHONE: (860) 621-0700
FAX: (860) 621-6066

SCALE: AS NOTED

DATE: 11/10/2020

DRAWN BY: JEJ

CHECKED BY: PJC

DETAIL SHEET FOR PROPOSED PLOT PLAN & SEPTIC SYSTEM DESIGN

PREPARED FOR LISA DUMOND

7 HOLLY LANE
PROSPECT, CONNECTICUT

FILE NUMBER	SHEET NUMBER
220140	2 of 2

THESE DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE OF JONES ENGINEERING LLC, AND HAVE BEEN PREPARED SPECIFICALLY FOR THE OWNER OF THIS PROJECT AT THIS SITE, AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE, LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF JONES ENGINEERING LLC.