

Town/City of _____ - Board of Health

Alliance #16a BOH Job Aid Plan Review for Title 5 Septic System Design 2023.12.04 (alliance@berkshireplanning.org)

Date of Review _____ **New Construction** **Repair** **Increased Flow** _____
Property Location _____
System Designer _____

✓	Criteria	Non-conformances
	Designed by Professional Engineer or Registered Sanitarian.(under 2000 gpd)	
	Plans are Dated, stamped, and signed.	
	Dated, signed, and stamped Surveyor's plan is attached when property line variance is requested.	
	Suitable scales: 1"=40' plans; 1"=20' component detail.	
	List of all variances or LUA sought. 10,000 gpd permitted by DEP	
	Plan Components	
	Owner. Shared Systems have special Requirements.	
	Street number, Map number, Lot number.	
	North arrow, Locus Map with nearest existing street	
	Legal Boundaries.& Size of Lot	
	Holder and location of all easements.	
	Locations of all buildings, driveways, other impervious surfaces	
	Existing and proposed contours.	
	Location of Proposed System and Reserve Area for new systems.	
	Design Calculations	
	Type of Flows: # BR x 110gal = minimum 330 gpd or other Design use or Hazardous Flows	
	Septic tank size and capacity (1500 gal. minimum for up to 4 BRs, Variances only for repairs)	
	Maximum daily flow. Garbage Grinders require 50% bigger	
	Soil Absorption System capacity (designed and required).	
	L x W X H (if trenches) – Check I/A requirements	
	Separation to ESHG (4 ft, 5 ft, or 3 ft with variances, 2 ft with I/A)	
	Deep Observation and Percolation Test Holes	
	Locations and Dates	
	Existing grades.	
	Soil Evaluator Listed.	
	Local Approving Authority Witness Listed.	
	Soil Evaluation Information listed on plans & attached.	
	Water and Wetlands – Wetlands and PWS Need ConCom Approvals	
	Location of all private drinking water supply within 150 ft.- Hearing if less than 100 ft. to Neighbor	
	Location of every public drinking water supply within 250 feet.	
	Location of every surface drinking water supply within 400 feet.(ConCom within 400 ft PWS)	
	Location of water lines and subsurface utilities.	
	Location of all surface water & wetlands (Need ConCom within 200ft of stream, 100ft wetlands)	
	Observed and estimated high groundwater elevations. (ESHG)	
	System Design	
	Complete system profile.	
	Benchmark within 50-75 feet of facility not subject to dislocation.	
	Dosing System: Chamber capacity, pump curves, specifications, # of dosing cycles & depth	
	A/I Technology or Recirculating Sand Filter: Complete plans and specifications, hydraulic profile.	
	Maintenance Contract for many I/A systems required. Add to Permit Requirements.	
	Materials and Construction – Max 36 " Below Finished Grade, Min 6 inch cover)	
	#, & Size of Septic Tank:Outlet Tee (Outlet Filter Preferred) Risers for Outlet Filter and Pumping	
	Distribution Box.- Consider plastic to avoid corrosion.	
	Pump Chamber.- Must have alarm in building	
	A/I Technology. - Need Approval Letters	
	Soil Absorption System. - Vent if possible	
	Piping – Minimum SDR 35.\ 40 PVC under driveways; from building to tank. Max 90 Elbows	

Signature Reviewing Official _____

Date _____