

# Lagoon Sizing, Setbacks & Construction Standards

## Minimum Separations from the 5' water line:

Water Well	100 feet
Main Structure Foundation	75 feet
Outbuilding Foundation	50 feet
Property Line	see reverse side
Surface Water	50 feet
Vegetation less than 10" tall	10 feet
Vegetation greater than 10' tall	50 feet
Other obstructions over 10' tall	50 feet

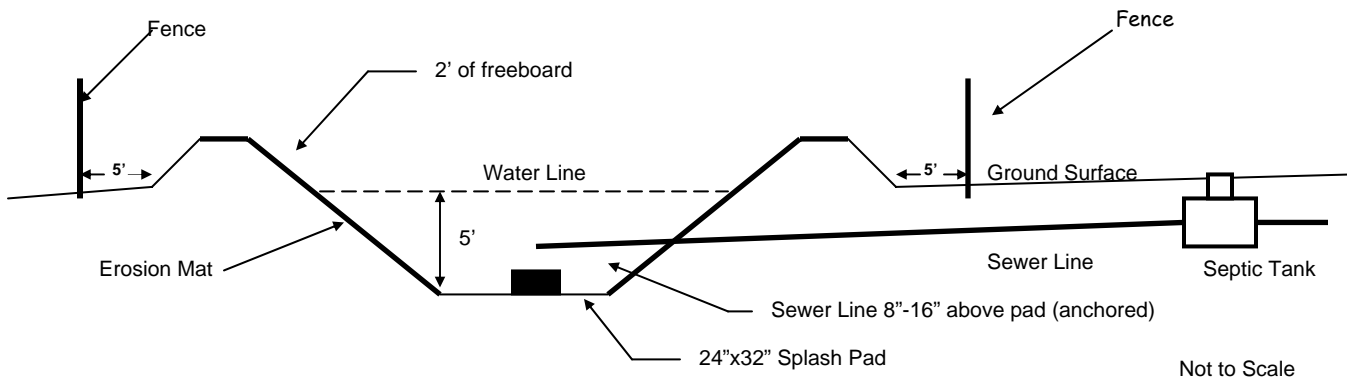
## Bentonite Application Rate: $\frac{1}{2}$ pound per square foot

Lagoon Size	Approximate area	Amount needed
M-45	2126 sq ft	1100 lbs
M-50	2625 sq ft	1300 lbs
M-55	3176 sq ft	1600 lbs
M-60	3780 sq ft	1900 lbs
M-65	4436 sq ft	2200 lbs

## Wastewater Lagoon Sizing

Water Surface	Bottom	Top	Slope
45'	10'	59'	3.5:1
50'	15'	64'	3.5:1
55'	20'	69'	3.5:1

## Wastewater Lagoon Cross Section



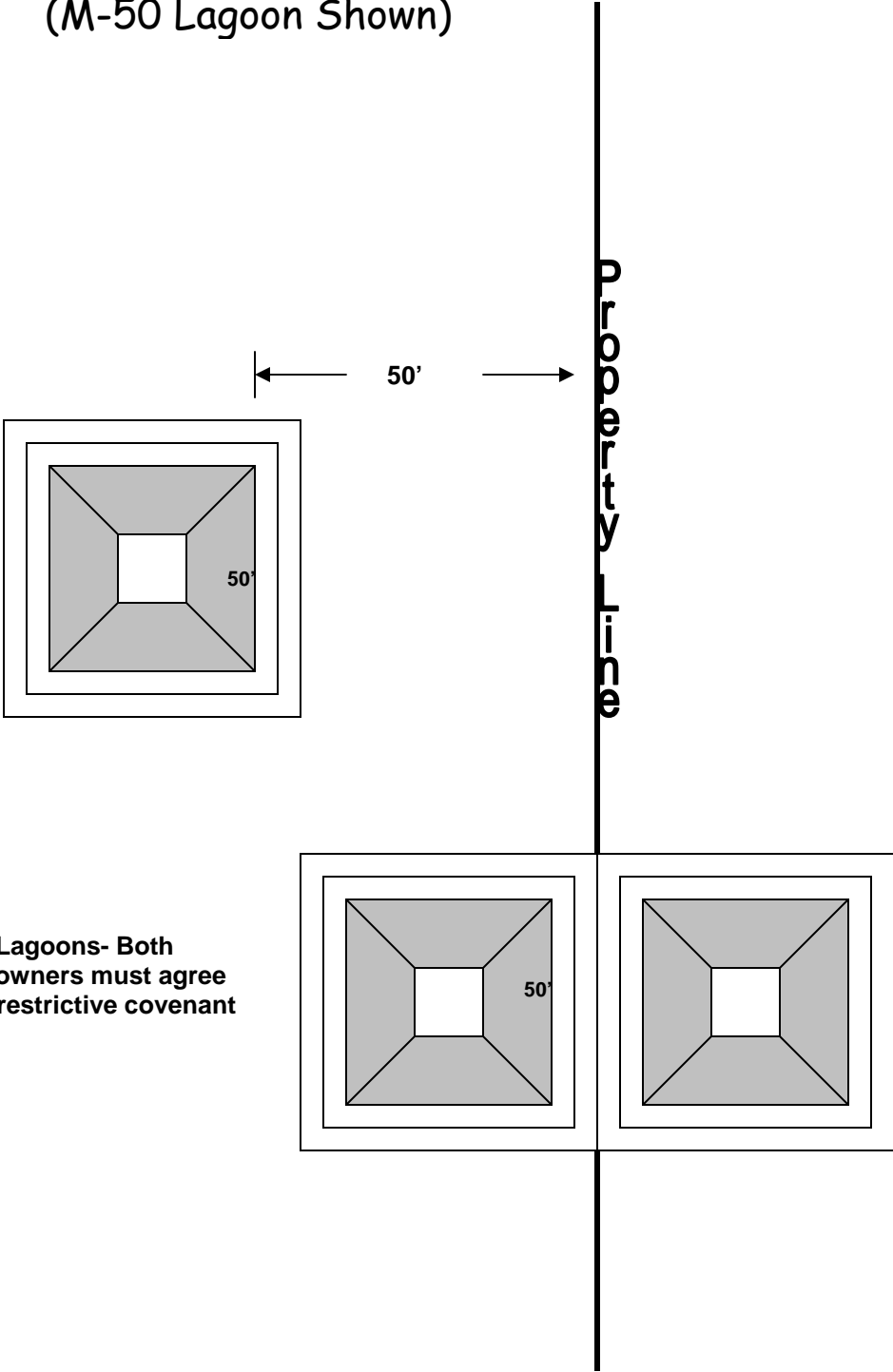
1. A 1,000 gallon septic tank will need to be installed in line before the lagoon and will need risers to grade. (Keep in mind that you will now have some additional fall coming to consider thru the septic tank.) If it will be a pressurized system then a 2 chamber tank will be needed.

2. The interior berm will need to be seeded and an erosion mat installed from the top to the bottom. This needs to be done within 24 hours of lagoon construction.

3. The fence has to be placed 5 feet out from the outside bottom of edge of the berm. This is required to facilitate maintenance and keep livestock off of the lagoon.

These standards apply to lagoon cleanouts as well as new construction.

**Single Family Waste Stabilization Pond  
Property Line Setbacks  
(M-50 Lagoon Shown)**



**Twinned Lagoons- Both  
property owners must agree  
and sign restrictive covenant**



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