



TOWN OF CHARLEMONT
BOARD OF HEALTH

DISPOSAL SYSTEM CONSTRUCTION CHECKLIST

For use during Final System Inspection—Revised 7/30/10

Street No. Street Name Today's Date

Owner name

Owner address

Identification of all buildings to be served by the system

TYPE OF FACILITY:

Single family dwelling

No. of bedrooms Approved Design Flow

Approved Plan Date If Revised, Revised Date Provided

P.E. or R.S. responsible for design of the system

If variances or Local Upgrade Approvals were given, list and check them:

Installer's name and contact

Type of system: Gravity vs pumped Pictures taken during inspection

SPECIFICATIONS OF THE SYSTEM:

Temporary Bench Mark within 50 feet of system

All setbacks met

Dimensions of all system components, including reserve area

Location of all system components with setbacks

Location of all manholes and cleanouts

Building Sewer connected Flush test conducted

Source of water supply - public system or private well

Location of water supply line

Location and setbacks of system components to:

Property lines (includes street lines)

Drain Pipes Drain easements

Cellar wall Slab foundation Swimming pool

Public Wells or surface water supplies within 400 feet

Private wells within 200 feet

Bordering vegetated wetlands within 150 feet of project

Inland banks within 150 feet of project Surface waters within 150 feet of project

Wetlands bordering surface water supply or tributaries _____
Streams subject to the River's Protection Act within 200 feet _____
Detention/Retention Ponds within 100 feet _____
Surface drains _____ Foundations drains _____
Open, Surface or Subsurface drains which intercept high ground water _____
Vernal Pool within 100 feet (Note whether or not certified) _____
Storm drainage leaching catch basins or dry wells _____
Downhill slope (Slope ratio included) _____
Boundary of regulatory floodway _____ Boundary of 100 year flood limit _____
Location of ALL soil pits near SAS _____
Receiving industrial category or other prohibited wastewaters _____
Residential system sized for garbage grinder _____ Checked kitchen _____
Building Sewer Schedule 40 PVC or Cast Iron Pipe _____
1 % slope minimum - (2% minimum slope preferred) _____
Laid on a continuous gradient _____
Laid in a straight line as nearly as possible _____
Manholes with cast iron frames and covers to grade or Cleanout where allowed:
 At changes in direction _____
 At changes in gradient or _____
 Junction of 2 or more sewers _____
 Intervals no greater than 100 feet _____

MATERIALS OF CONSTRUCTION:

Septic Tank New _____ Used _____ If so, Inspected? _____
Set on level base _____ Set on 6 inches of stone _____
Tank volume _____ All Tanks Checked for Water-tightness _____
Tank filled above side seam and tested _____ # of Hours of test _____
Ground water elevation at tank _____ If any portion of tank below high ground water _____
Buoyancy calculations _____ Buoyancy prevention for empty tank where indicated _____
High Ground Water minimum 12 inches below outlet? _____
Invert at septic tank inlet and outlet _____ Invert at distribution box inlet and outlet _____
Inlet to leaching area component(s) _____ Bottom of leaching area elevation _____
Finished ground elevation over lot and system components _____
Ground water elevation at SAS location _____
SAS Pipe Slope _____
Compaction spec if in fill _____
H-20 Loading if under vehicle or heavy load area _____

Minimum of 9" of cover _____
Risers over inlet tee, outlet tee, and center of tank _____
Top of manholes/risers within 6 inches of grade _____
Manholes to finished grade with cement frames and metal covers if under pavement _____
H-20 loading if vehicle or heavy load area _____
Outlet Gas Baffle or Effluent Filter _____ With riser to grade _____

DISTRIBUTION BOX:

Minimum 12" x 12" internal dimensions _____ Material of construction _____
Watertight cover _____ Manhole to grade if under paved area _____
Minimum 6 inch sump (below outlet invert) _____
Inlet baffle required by slope of pipe from septic tank or if dosing _____
One outlet for each individual distribution line or leaching structure _____
Riser to within 6" of cover _____

LEACHING AREA (SAS):

Elevation of SAS bottom _____
Invert elevations of all piping _____
Distribution piping for full length of all trench systems with stone _____
Distance to side slope shown from top of pea stone _____
Distance to side slope not less than 15 feet unless impervious barrier used _____
Trench, field, chamber, galley, or pit system used _____
Reserve Area for new systems protected _____
Trench width _____ Trench length _____
Depth of final cover _____ If longer than 50 feet connected and vented _____
Long dimension or leaching area perpendicular to slope (follow contours) _____
Distribution piping _____ PVC Sch 40 _____ Slope at 0.005 feet per foot _____
Orifices 3/8 to 5/8 inch _____ Aggregate specified used _____
Double washed 3/4" to 1 1/2" stone specified - free from dust and fines in place _____
Minimum 2 inch layer double washed 1/8" to 1/2" stone above pipe crown and larger aggregate specified - free from dust and fines in place _____
SAS observation port installed _____ In each trench _____

FINAL GRADING:

Grading to reduce infiltration and minimize erosion _____
2% slope minimum over leaching area and surrounding area _____
Surface drainage away from system _____ No low spots that allow ponding of rain _____

SYSTEMS IN FILL (fill shall not be placed during rain or snow storms):

Limit of excavation clearly depicted _____
Length and width of limit of excavation dimensioned _____
Unsuitable material removed for 5 feet minimum _____
Setback to side slope = 15 feet minimum _____
Statement of fill specifications, sieve analysis provided _____
Side slope shall not be steeper than 3 to 1 _____
Impervious barrier used _____ Breakout setback at least 10' _____
Toe of slope 5 feet from property line _____
If slope > 3:1 use of concrete retaining wall _____ Approved by P.E. _____

PUMP CHAMBER (Same water-tightness requirements for all tanks):

Tank filled above side seam and tested _____ # of Hours of test _____
Buoyancy calculated if any portion of pump chamber is below HGW _____
Groundwater elevation 12 inches (min) below inlet or outlet pipes _____
Dosing or pump chamber volume _____ Emergency storage capacity _____
Storage allowance for flow-back drainage _____
Number of dosing cycles _____ Depth per cycle _____
24 inch manhole with riser and cover to grade _____

PUMPS AND CONTROLS:

Floats checked _____ Pump on _____ Pump off _____
Control panel with run-auto-off switch _____ Alarm with light and audible bell checked _____
Alarm on separate power circuit _____ Alarm test switch _____
Bell or buzzer silencer switch _____

FORCE MAIN:

Full profile of force main _____ Check upward slope through out (No sags) _____
Check drain-back capability _____
Force main depth to prevent freezing or _____ Insulated fully if specified _____

VENTS:

Required for:
Trench lengths greater than 50 feet _____
Any part of leaching area under impervious surface _____
Any part of leaching area under traffic area _____
One vent minimum for each trench _____
Header invert to be above invert of distribution piping _____

Located beyond impervious or traffic area or protected from damage _____

Designed to prevent precipitation or animal access _____

Backfilled to prevent seepage of surface water into system _____

FINAL APPROVALS:

Permission given by BOH to cover components _____ By _____

Requirement for Designer As-built _____ Received _____

Requirement for Designer certification of construction _____ Received _____

Requirement for Installer certification of system construction _____ Received _____

Deed restrictions for system upgrade, I&A Technology, or number of bedrooms _____

Recorded on _____ Copy received by BOH _____

Certificate of Compliance issued _____ Date _____ By _____

Copy of completed COC sent to Building Inspector _____ Owner _____

Final Inspection completed by _____

(print name)

Signature _____ Date _____