

Inspections:

- ▶ Inspections are required in order to verify that all rule and statute requirements have been addressed.
- ▶ The CHD verifies the permit conditions, including items submitted as existing portions the inspector on-site has not physically approved in previous inspections (for example, a recently-covered mound inspected by another CHD employee).

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Conventional System Inspection Requirements

- ▶ Responsibilities and procedures for conventional system inspection:
 - Who can perform an inspection?
 - What tools are needed?
 - The final inspection form.
 - Examples of items that arise during an inspection, how are deficiencies corrected, and by whom?

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Who can perform an Inspection?

- ▶ DOH employees certified per 381.0101, FS.
- ▶ Master Septic Tank Contractors registered with the DOH per 64E-6.020, FAC.:
 - Only for System Repairs.
 - Must use form DH4016pg3 - "System Repair Certification."
 - This form is then reviewed by the CHD inspector and used to complete the "Construction Inspection and Final Approval" form (DH4016pg2).

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Conventional System Inspection Requirements

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Tools Required:

- ▶ At minimum, the following tools are required in order to properly conduct a standard system inspection:
 - Six-foot Auger.
 - Water Bottle.
 - 100-foot or longer measuring tape.
 - Sharpshooter Shovel.
 - Insulated Probing Rod.
 - Laser Level or Surveyor's Level with Stadia Rod.
 - Soil Survey of the County.
 - Munsell Soil Color Book.
 - 25-ft x 1-inch stainless steel and self-locking measuring tape.

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SETRBACKS

[]	[27]	SURFACE WATER	_____	FT
[]	[28]	DITCHES	_____	FT
[]	[29]	PRIVATE WELLS	_____	FT
[]	[30]	PUBLIC WELLS	_____	FT
[]	[31]	IRRIGATION WELLS	_____	FT
[]	[32]	POTABLE WATER LINES	_____	FT
[]	[33]	BUILDING FOUNDATION	_____	FT
[]	[34]	PROPERTY LINES	_____	FT
[]	[35]	OTHER	_____	FT

DH4016pg2
Setbacks
Items [27] - [35]

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On Form DH4016pg2

[]	[27]	SURFACE WATER	_____	FT
[]	[28]	DITCHES	_____	FT
[]	[29]	PRIVATE WELLS	_____	FT
[]	[30]	PUBLIC WELLS	_____	FT
[]	[31]	IRRIGATION WELLS	_____	FT
[]	[32]	POTABLE WATER LINES	_____	FT
[]	[33]	BUILDING FOUNDATION	_____	FT
[]	[34]	PROPERTY LINES	_____	FT
[]	[35]	OTHER	_____	FT

All setbacks must be measured in feet, and the actual result recorded on the inspection form.

Setbacks
Items [27] - [35]

- ▶ [27] Surface Water:
 - Measured from the MAFL or MHWL
 - Ensure all surface water bodies are accounted for
- ▶ [28] Ditches:
 - Account for all Ditches and ensure they appear on the site plan
- ▶ [29] Private Wells:
 - Verify per site plan and site evaluation
- ▶ [30] Public Wells:
 - Verify per site plan and site evaluation
- ▶ [31] Irrigation Wells:
 - Verify per site plan and site evaluation
- ▶ [32] Potable Water Lines:
 - Verify per site plan and site evaluation
- ▶ [33] Building Foundation:
 - Verify per site plan and site evaluation
- ▶ [34] Property Lines:
 - Verify per site plan and site evaluation
- ▶ [35] Other:
 - Ensure all other setbacks required by the permit, site evaluation, and site plan have been met.

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[]	[36]	DRAINFIELD COVER	_____
[]	[37]	SHOULDERS	_____
[]	[38]	SLOPES	_____
[]	[39]	STABILISATION	_____

DH4016pg2
Filled/Mound System
Items [36] - [39]

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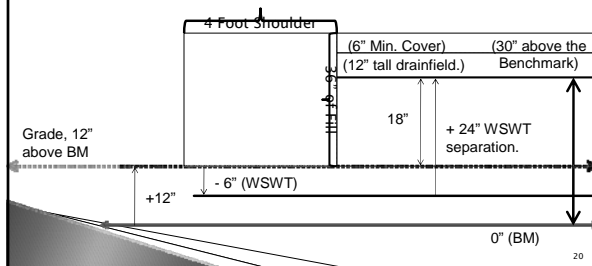
Notes on Mound Specifications

- As in the example system, mounds are drainfields whose bottom surface is held above native soil by suitable fill.
 - In order to prevent a sanitary nuisance (sewage effluent surfacing and affecting public health or the environment), a 4-foot shoulder area of fill surrounds the drainfield.
 - To keep this structure in place, and prevent erosion, additional fill material and vegetative stabilization is required.

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So we've added fill to the lot:

- How do we keep the drainfield effluent from spilling out into the environment?
 - We must add shoulder area around the fill already in place.
 - For new conventional systems, 4 feet of shoulder area is required.

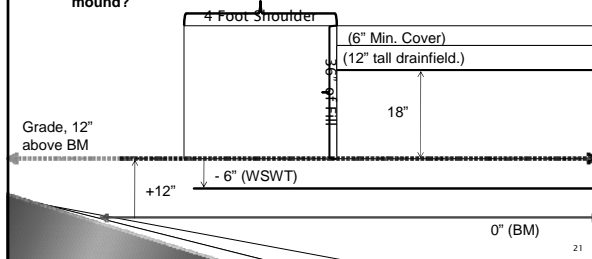


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So we've added fill to the lot:

- How do we keep the drainfield and shoulder area from eroding or falling apart?
 - We must add slopes to hold up the mounded drainfield.
 - At minimum, the slope must be 2:1 (two foot horizontal to one foot vertical).
 - For mounds exceeding 36" in height, slopes must be at least 3:1.
- How tall is our mound?
 - We only measure from natural grade to the top of the fill:
 - This mound is 36 inches tall.

What is the minimum slope required for a 36" tall mound?



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To determine the minimum slope required:

- Determine whether the mound exceeds 36 inches in height.
 - This mound is 36 inches tall, so it does not.
- Reference the rule requirement for drainfield slopes [64E-6.009(3)(f)].
 - This section requires at minimum, 2:1 slopes for mounds not exceeding 36 inches in height.
 - This mound requires at minimum, 2:1 slopes.
 - The slopes must be extended out two feet (horizontally) for every 1 foot of mound height.

How do we determine how many feet (horizontally) the slopes must measure?

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To calculate the minimum slope required:

- Determine the mound height in feet.
 - This mound is 36 inches tall, so:
 - $36" / 12" = 3$ feet.
- Because the minimum slope requirement (2:1) means we must cover one horizontal foot of area for each vertical foot the mound covers, we multiply the height by 2 to determine how many feet of slope are required.
 - $3 \times 2 = 6$
 - 6 feet of slope must be added for a 3 foot tall mound.

How do we keep the slopes from eroding?

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To keep slopes from eroding, stabilization material must be applied:

- The rule specifies that the required stabilization material depends on the steepness of the slope.
 - For 2:1 slopes, sod (or equivalent) is required.
 - For 3:1 slopes, sod (or equivalent) is required.
 - And if the mound height exceeds 36", the entire mound must be stabilized with sod (or equivalent).
 - For 5:1 slopes or greater, seed and hay is acceptable.

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ABANDONMENT

[] [49] TANK PUMPED / / /

[] [50] TANK CRUSHED & FILLED / / /

DH4016pg2
Abandonment
Items [49] - [50]

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On Form DH4016pg2

ABANDONMENT

[] [49] TANK PUMPED / / /

[] [50] TANK CRUSHED & FILLED / / /

- ▶ [49] Tank Pumped:
 - Visually confirm complete removal of tank contents.
 - Verify that the bottom of the tank is ruptured.
 - Record the date the tank was pumped.
- ▶ [50] Tank Crushed & Filled:
 - Confirm that the amount of fill material on site is sufficient and satisfactory to fill the abandoned tank.
 - Confirm that the tank has been crushed or collapsed.
 - Record the date the tank was crushed or collapsed.

Abandonment
Items [49] - [50]

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EXPLANATION OF VIOLATIONS / REMARKS:

[] _____

[] _____

[] _____

[] _____

DH4016pg2
Explanation of
Violations/Remarks

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On Form DH4016pg2

EXPLANATION OF VIOLATIONS / REMARKS:
 () _____
 () _____
 () _____
 () _____

- ▶ Explanation of Violations/Remarks:
 - Document, Document, Document!
 - Ensure all violations are explained, using additional sheets as required.
 - Ensure any additional items of note are documented.

Explanation of Violations / Remarks

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CONSTRUCTION (APPROVE/DISAPPROVE): _____ CHD DATE: _____
 FINAL SYSTEM (APPROVE/DISAPPROVE): _____ CHD DATE: _____

DH4016pg2
 OSTDS Construction and Final Approval.

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On Form DH4016pg2

CONSTRUCTION (APPROVE/DISAPPROVE): _____ CHD DATE: _____
 FINAL SYSTEM (APPROVE/DISAPPROVE): _____ CHD DATE: _____

DH 4016, 08/09 (Obsoletes all previous editions which may not be used)
 Incorporated: 648-6.003, FAC Page 2 of 3

- ▶ Construction Approval:
 - Designate whether the system construction is approved or disapproved.
 - Must be signed and dated by a certified CHD employee.
 - All re-inspections must be recorded on a separate form, each approved or disapproved in turn.
- ▶ Final Approval:
 - Record as "disapproved" until all OSTDS rule and statute requirements have been met.
 - All re-inspections must be recorded on a separate form, each approved or disapproved in turn.

Construction Approval & Final Approval

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Conventional System Inspection Requirements

- ▶ Responsibilities and procedures for conventional system inspection:
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Corrections to an installation:

- ▶ What happens when deficiencies are encountered?
 - How they are corrected?
 - By whom?
 - What are the associated fees?
 - What would void an otherwise viable permit?

35



12:00-1:00
LUNCH (Provided)



36

Eat

- ▶ Eat.
- ▶ Drink.
- ▶ Pick up after yourself.
- ▶ Digest.
- ▶ Stretch your legs.
- ▶ Have a snack.

37



12:00-1:00
LUNCH (Provided)



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