




B - 10:30 - 12:00
Conventional System Inspection Requirements and Field Standardization

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DH4016pg2
 OSTDS Construction Inspection and Final Approval.

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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 and standardized inspection procedures.
 - 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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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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TANK INSTALLATION

- [] [01] TANK SIZE [1] _____ [2] _____
- [] [02] TANK MATERIAL _____
- [] [03] OUTLET DEVICE _____
- [] [04] MULTI-CHAMBERED [Y / N] _____
- [] [05] OUTLET FILTER _____
- [] [06] LEGEND _____
- [] [07] WATERTIGHT _____
- [] [08] LEVEL _____
- [] [09] DEPTH TO LID _____

DH4016pg2
Tank Installation
Items [01] – [09]

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On Form DH4016pg2

SETBACKS		
<input type="checkbox"/>	[27] SURFACE WATER	_____ FT
<input type="checkbox"/>	[28] DITCHES	_____ FT
<input type="checkbox"/>	[29] PRIVATE WELLS	_____ FT
<input type="checkbox"/>	[30] PUBLIC WELLS	_____ FT
<input type="checkbox"/>	[31] IRRIGATION WELLS	_____ FT
<input type="checkbox"/>	[32] POTABLE WATER LINES	_____ FT
<input type="checkbox"/>	[33] BUILDING FOUNDATION	_____ FT
<input type="checkbox"/>	[34] PROPERTY LINES	_____ FT
<input type="checkbox"/>	[35] OTHER	_____ FT

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

- [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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FILLED / MOUND SYSTEM

<input type="checkbox"/>	[36] DRAINFIELD COVER	_____
<input type="checkbox"/>	[37] SHOULDERS	_____
<input type="checkbox"/>	[38] SLOPES	_____
<input type="checkbox"/>	[39] STABILISATION	_____

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

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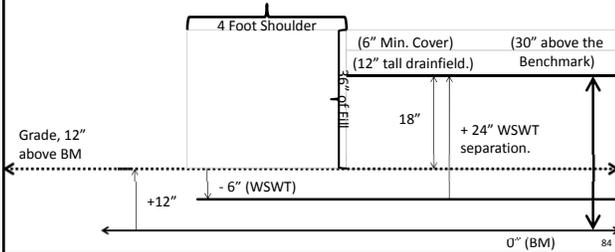
Notes on Mound Specifications

- 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:

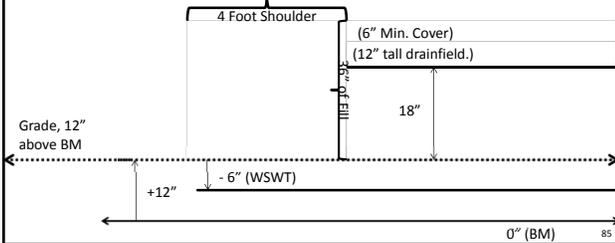
- How do we keep the drainfield effluent from spilling out into the environment?
 - We must add shoulder area around the fill already in place.
 - For new conventional systems, 4 feet of shoulder area is required.



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.

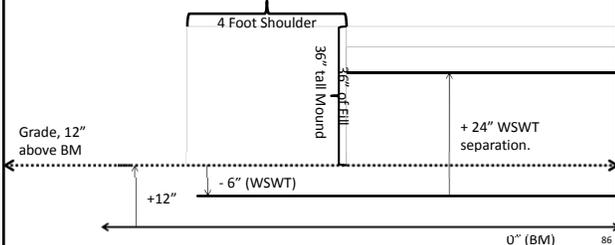
What is the minimum slope required for a 36" tall mound?



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?





On Form DH4016pg2

**Abandonment
Items [49] – [50]**

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.

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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.

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CONSTRUCTION (APPROVED/DISAPPROVED): _____ CHD DATE: _____

FINAL SYSTEM (APPROVED/DISAPPROVED): _____ CHD DATE: _____

DH4016pg2
OSTDS Construction and Final Approval.

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On Form DH4016pg2

CONSTRUCTION (APPROVED/DISAPPROVED): _____ CHD DATE: _____

FINAL SYSTEM (APPROVED/DISAPPROVED): _____ CHD DATE: _____

DH 4016, 08/09 (Obsoletes all previous editions which may not be used)
Incorporated: 64B-6.003, FAC Page 2 of 3

Construction Approval & Final Approval

- 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.

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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?

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C - 1:00-2:15
Conventional System Inspection Field Exercise

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Conventional System Inspection Field Exercise

- Go outside. Bring Water. Dress Appropriately.
 - Show how the items discussed for inspection are collected from the field.
 - Discuss correct and incorrect methods for measuring or determining compliance.
 - Demonstrate procedure for assessing and documenting items in the field.
 - Demonstrate a system inspection, fill out the inspection form.

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