Onsite Wastewater Concepts, Materials, Regulations & The Application Process Part I

D – New Permit Applications and Site Plans

Instructor:
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Division of Disease Control and Health Protection
Bureau of Environmental Health-Onsite Sewage Programs
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Course Objective

To gain a basic understanding of the requirements of the onsite sewage treatment and disposal system application/permitting process including the application, site plans and design for new residential systems.

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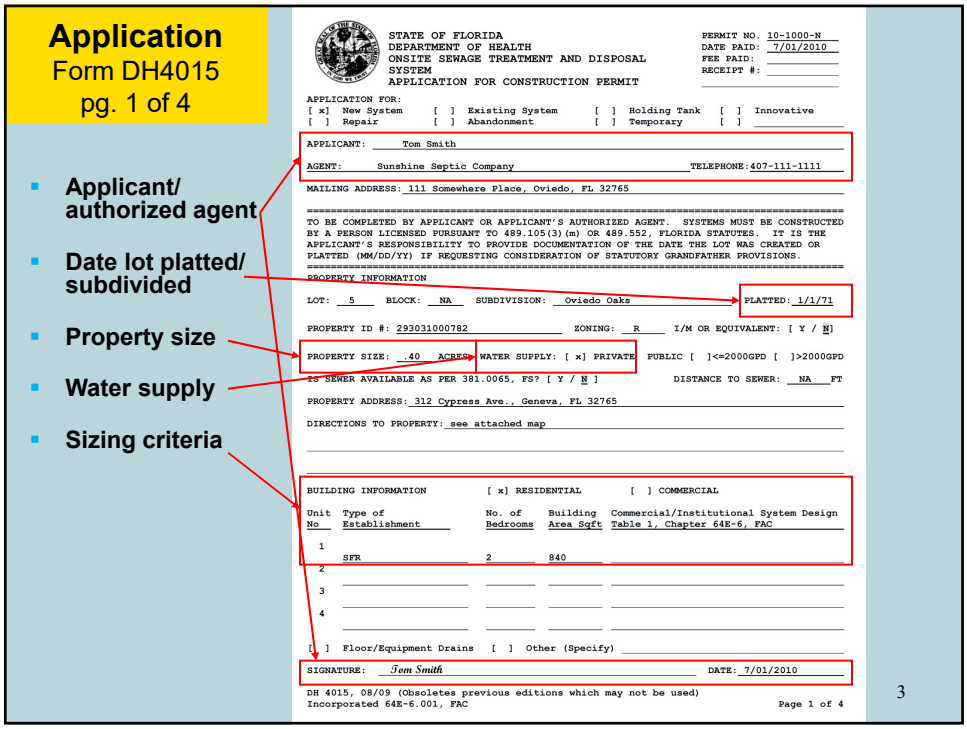
Application
Form DH4015
pg. 1 of 4

- **Applicant/ authorized agent**
- **Date lot platted/ subdivided**
- **Property size**
- **Water supply**
- **Sizing criteria**



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 10-1000-N
DATE PAID: 7/01/2010
FEE PAID:
RECEIPT #:

APPLICATION FOR:
[x] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ]

APPLICANT: Tom Smith

AGENT: Sunshine Septic Company TELEPHONE: 407-111-1111

MAILING ADDRESS: 111 Somewhere Place, Oviedo, FL 32765

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 5 BLOCK: NA SUBDIVISION: Oviedo Oaks PLATTED: 1/1/71

PROPERTY ID #: 293031000782 ZONING: R I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: .40 ACRES WATER SUPPLY: [x] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: 312 Cypress Ave., Geneva, FL 32765

DIRECTIONS TO PROPERTY: see attached map

BUILDING INFORMATION [x] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SFR	2	840	
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify)

SIGNATURE: Tom Smith DATE: 7/01/2010

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC
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Application
Form DH 4015
Instructions on Back

Building Area
do not confuse with "living area" or "heated/cooled area"

APPLICANT:	Property owner's full name.
AGENT:	Property owner's legally authorized representative.
TELEPHONE:	Telephone number for applicant or agent.
MAILING ADDRESS:	P.O. box or street, city, state and zip code mailing address for applicant or agent.
LOT, BLOCK, SUBDIVISION:	Lot, block, and subdivision for lot (recorded or unrecorded subdivision). If lot is not in a recorded subdivision, a copy of the lot legal description or deed must be attached.
DATE OF SUBDIVISION:	Official date of subdivision recorded in county plat books (month/day/year) or date lot originally recorded. Dividing an approved lot into two or more parcels for the purpose of conveying ownership shall be considered a subdivision of the lot.
PROPERTY ID#:	27 character number for property. CHD may require property appraiser ID # or section/township/range/parcel number.
ZONING:	Specify zoning and whether or not property is in I/M zoning or equivalent usage.
PROPERTY SIZE:	Net usable area of property in acres (square footage divided by 43,560 square feet) exclusive of all paved areas and prepared road beds within public rights-of way or easements and exclusive of streams, lakes, normally wet drainage ditches, marshes, or other such bodies of water. Contiguous unpaved and non-compacted road rights-of-way and easements with no subsurface obstructions may be included in calculating lot area.
WATER SUPPLY:	Check private or public <= 2000 gallons per day or public > 2000 gallons per day.
SEWER AVAILABILITY:	Is sewer available as per 381.0065, Florida Statutes, and distance to sewer in feet.
PROPERTY ADDRESS:	Street address for property. For lots without an assigned street address, indicate street or road and locale in county.
DIRECTIONS:	Provide detailed instructions to lot or attach an area map showing lot location.
BUILDING INFORMATION: TYPE ESTABLISHMENT:	Check residential or commercial. List type of establishment from Table II, Chapter 64E-6, FAC. Examples: single family, single wide mobile home, restaurant, doctor's office.
NO. BEDROOMS:	Count all rooms designed primarily for sleeping and those areas expected to routinely provide sleeping accommodations for occupants.
BUILDING AREA:	Total square footage of enclosed habitable area of dwelling unit, excluding garage, carport, exterior storage shed, or open or fully screened patios or decks. Based on outside measurements for each story of structure.
BUSINESS ACTIVITY:	For commercial/institutional applications only. List number of employees, shifts, and hours of operation, or other information required by Table II, Chapter 64E-6, FAC.
FIXTURES:	Mark Floor/Equipment Drains or Others and specify item or "NA" if not applicable.
SIGNATURE / DATE:	Signature of applicant or agent. Date application submitted to the CHD with appropriate fees and attachments.

ATTACHMENTS: A site plan drawn to scale, showing boundaries with dimensions, locations of residences or buildings, swimming pools, recorded easements, onsite sewage disposal system components and location, slope of property, any existing or proposed wells, drainage features, filled areas, obstructed areas, and surface water. Location of wells, onsite sewage disposal systems, surface waters, and other pertinent facilities or features on adjacent property, if the features are with 75 feet of the applicant lot. Location of any public well within 200 feet of lot. For residences, a floor plan (residences) showing number of bedrooms and building area of each unit. For nonresidential establishments, a floor plan showing the square footage of the establishment, all plumbing drains and fixture types, and other features necessary to determine composition and quantity of wastewater.

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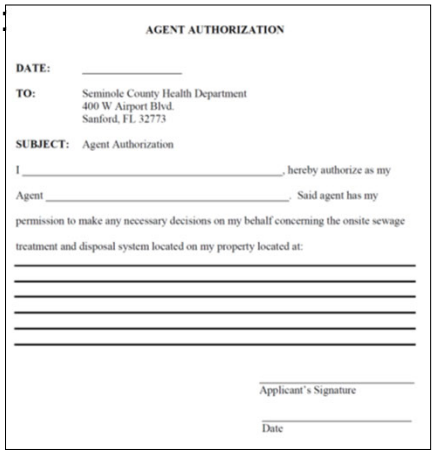
Applicant/authorized agent

Completed and signed by:

- Applicant/owner
- Authorized agent
  (owner's authorized representative if not a contractor licensed under sec. 489, FS – a signed statement is required)
- Contractor licensed under Chap. 489, FS

64E-6.004(2), FAC



AGENT AUTHORIZATION

DATE: _____

TO: Seminole County Health Department
400 W Airport Blvd.
Sanford, FL 32773

SUBJECT: Agent Authorization

I _____, hereby authorize as my

Agent _____. Said agent has my

permission to make any necessary decisions on my behalf concerning the onsite sewage

treatment and disposal system located on my property located at:

_____

_____

_____

_____

_____

_____

_____
Applicant's Signature

_____
Date

Above is a sample form

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Date Lot Platted / Subdivided (lot recorded or created)

To determine whether current or pre-1972 lot size provisions will apply.

- **Surface water setbacks**
  lots platted or recorded prior to 1972 have a minimum 50 ft. setback to surface water bodies. Current setback is 75 feet.

  s. 381.0065(4)(g)2., F.S.

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Legal Descriptions

- All information that is necessary to determine the total sewage flow and proper setbacks on the site ownership shall be submitted with the application. The applicant lot shall be clearly identified. A copy of the legal description or survey must accompany the application for confirmation of property dimensions only. 64E-6.004(3)(a)5.

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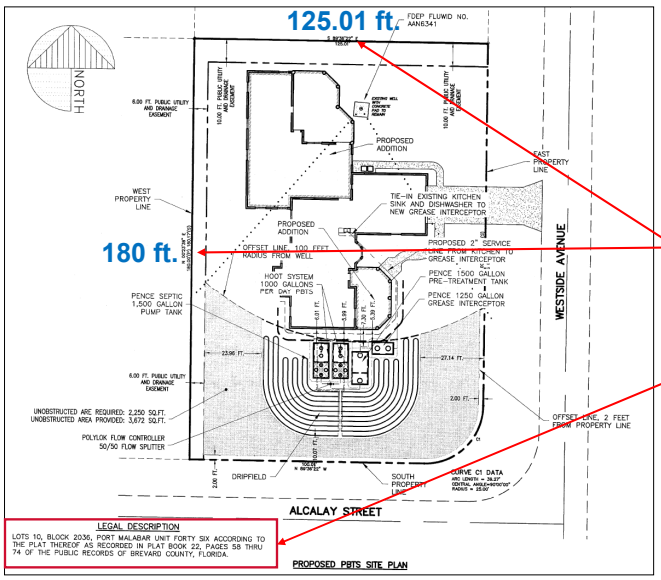
Legal Descriptions



Lot Dimensions

Legal Description

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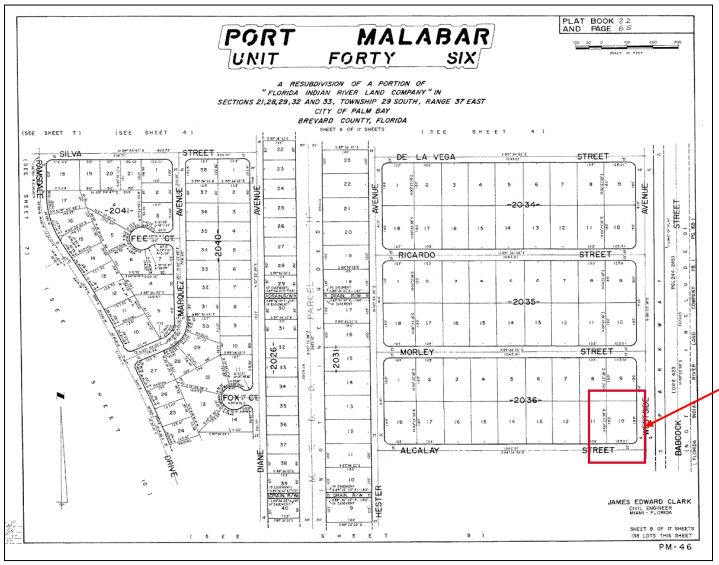
Legal Descriptions



Lot 10

Property Size

Current Lot Size Requirements:

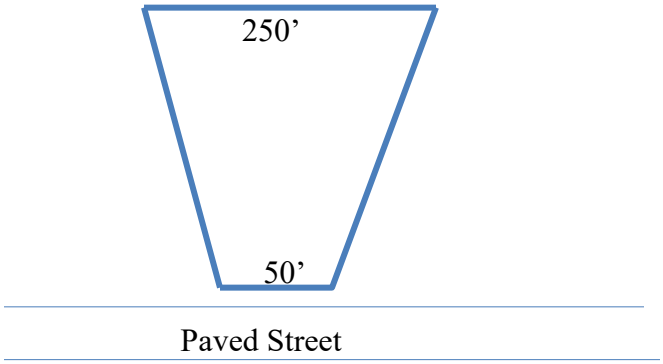
(Lots platted/subdivided on or after 1/1/1972)

- Lots using private potable or 64E-8 well – **.50 acre (21,780 sq. ft.)**
  (and either a minimum dimension of 100 feet or a mean of at least 100 feet of the side bordering the street and the distance formed by a line parallel to the side bordering the street drawn between the two most distant points of the remainder of the lot)
- Lots using a DEP regulated public water system, **no more than 4 lots per acre**

See Memo 06-005 for further information on application of the 4 Lots Per Acre

Does the lot meet the provision for well and septic?

It is a half acre in size:



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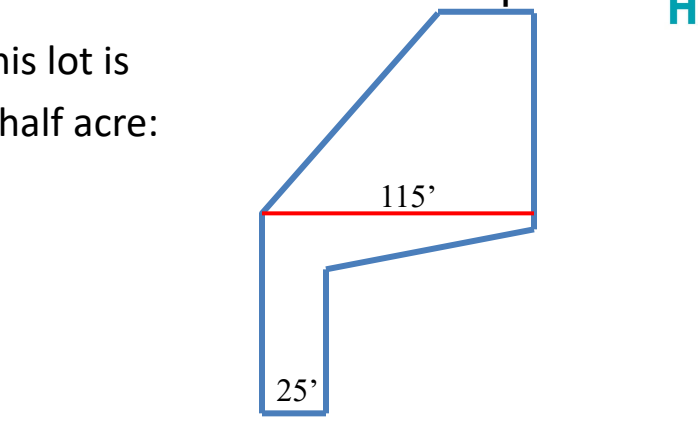
Does the lot meet the provision for well and septic?

This lot is a half acre:



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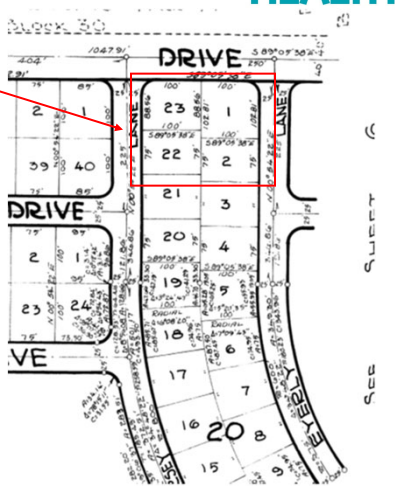
No more than 4 lots per acre – How to Determine

- Sum the cumulative area of 4 adjacent lots
- Add pro-rata portion of adjacent right of way and subtract surface water, prepared road beds etc.
- If cumulative area is less than a whole acre, the provision is violated
- Individual lots, not associated with a subdivision can not be assessed
- See section 381.0065(4)(b), FS and Memo 06-005 for further details



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Property Size

Pre 1972 Lot Size Requirements:

- lots platted or recorded prior to 1972 have no minimum lot size requirements
- provided daily sewage flow does not exceed allowances.

s. 381.0065(4)(g)2., FS

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Maximum Daily Sewage Flow Allowance

- Public drinking water system
  (regulated by DEP)
  2500 gallons/acre/day

- Private potable wells,
  64E-8 Ltd use PWS (regulated by DOH)
  1500 gallons/acre/day

64E-6.005(7)(c), 64E-6.001(44)(a)-(c)

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Setback to Surface Water

- Lots platted or recorded prior to January 1, 1972 have a minimum 50 feet setback to surface waters

- Current setback is 75 feet

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Private Potable Well Setback

75 feet setback to private wells regardless of the date of platting

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Sizing Criteria

- 64E-6.008, Table I Estimated Sewage Flows for Residential System Design
- When estimated sewage flows are less than 200 gallons per day, system size shall be based on a minimum of 200 gallons per day.
  64E-6.008(5), FAC

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Sizing Criteria

- **Number of bedrooms and building area** (Table 1 for Residences is used to estimate sewage flow). Examples are SFR.
- example: **2** bedrooms with **1000** sq.ft, requires **200 gpd.**
- example: **3** bedrooms with **3000** sq.ft., requires **400 gpd.**

TABLE I
For System Design
ESTIMATED SEWAGE FLOWS

RESIDENTIAL:	GPD
Residences	
(a) Single or multiple family per dwelling Unit	
1 Bedroom with 750 sq. ft. or less of building area	100
2 Bedrooms with 751-1200 sq. ft. of building area	200
3 Bedrooms with 1201-2250 sq. ft. of building area	300
4 Bedrooms with 2251-3300 sq. ft. of building area	400
For each additional bedroom or each additional 750 square feet of building area or fraction thereof in a dwelling unit, system sizing shall be increased by 60 gallons per dwelling unit.	
(b) Other per occupant	50

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Sizing Criteria

What is the estimated sewage flow for a 5 bedroom SFR with 6672 sq. ft., of bldg. area?

- Use this section, since 4 bedrooms or a max of 3300 SF is exceeded

- At least 4 bedrooms with 3300 SF of building area **400 GPD**
- 6672 SF – 3300 SF = 3372 SF / 750 SF = 4.49, (5 x 60 gal. = 300 gal.) **300 GPD**
- **400 + 300 = 700 GPD**

The estimated sewage flow is **700 GPD**

TABLE I
For System Design
ESTIMATED SEWAGE FLOWS

RESIDENTIAL:	GPD
Residences	
(a) Single or multiple family per dwelling Unit	
1 Bedroom with 750 sq. ft. or less of building area	100
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4 Bedrooms with 2251-3300 sq. ft. of building area	400
For each additional bedroom or each additional 750 square feet of building area or fraction thereof in a dwelling unit, system sizing shall be increased by 60 gallons per dwelling unit.	
(b) Other per occupant	50

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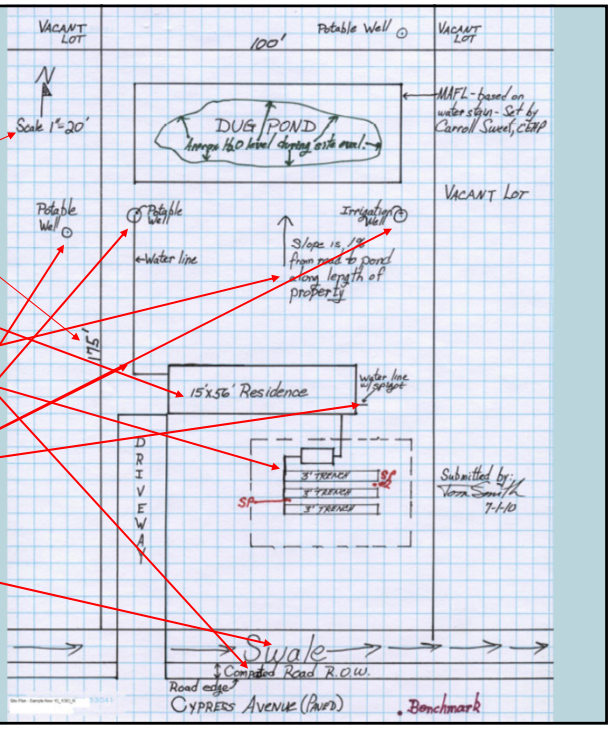
Site Plan

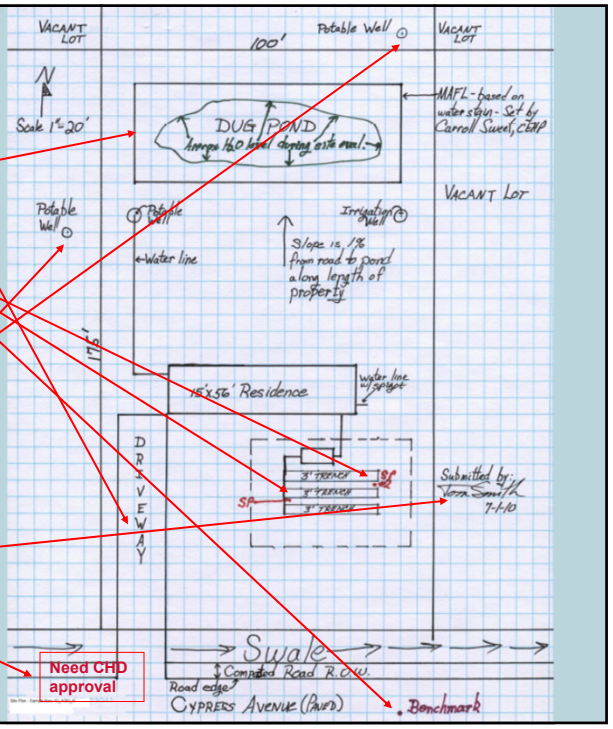
- Drawn to scale, boundaries with dimensions
- Structures, swimming pools, recorded easements
- OSTDS location & configuration, slope of property
- Wells, potable and non-potable water lines
- Drainage features

64E-6.004, FAC



Site Plan

- Obstructed areas, surface water bodies
- Benchmark/reference point, soil profile locations (documented in drainfield area)
- Offsite features within 75 feet of lot (dimensions)
- Legal description or survey/to confirm property dimensions
- Applicant/agent signature and date
- Department approval (name of CHD, date, signature)



Site Plan

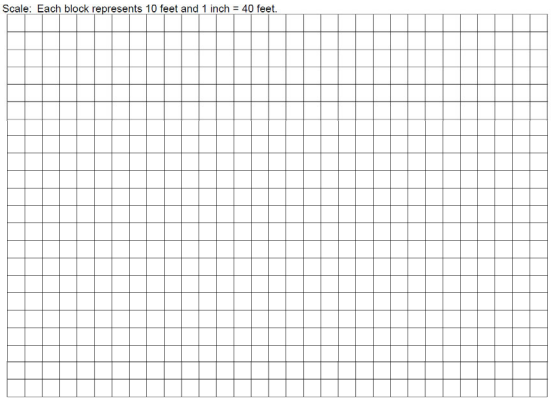
DH Form 4015 pg. 2

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number_____

---------- PART II - SITEPLAN ----------

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: _____

Site Plan submitted by:_____ _____

Plan Approved_____ Not Approved_____ Date_____

By_____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC
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Site Plan Instructions DH Form 4015 pg. 2

4015 PG 2:SITE PLAN INSTRUCTIONS – 64E-6.004, FAC

FOR NEW/EXISTING/MODIFICATION SYSTEM APPLICATIONS: The site plan shall be **DRAWN TO SCALE** and shall be for the property where the system is to be installed.
1. The site plan shall **SHOW BOUNDARIES WITH DIMENSIONS** and any of the following **FEATURES THAT EXIST OR THAT ARE PROPOSED**:
☐ a. Structures;
☐ b. Swimming pools;
☐ c. Recorded easements;
☐ d. Onsite sewage treatment and disposal system components;
☐ e. Slope of the property;
☐ f. Wells;
☐ g. Potable and non-potable water lines and valves;
☐ h. Drainage features;
☐ i. Filled areas;
☐ j. Excavated areas for onsite sewage systems;
☐ k. Obstructed areas;
☐ l. Surface water bodies *Requires a surveyor to set the Mean High Water Line boundary for tidally influenced surface water bodies. Requires a surveyor or department staff to set the Mean Annual Flood Line for permanent non-tidal surface water bodies.*
☐ m. Location of the reference point for system elevation.
☐ 2. If the county health department is responsible for performing the site evaluation, the applicant or applicant's authorized representative shall **indicate the approximate location of wells, onsite sewage treatment and disposal systems, surface water bodies and other pertinent facilities or features on contiguous or adjacent property. If the features are within 75 feet of the applicant lot, the estimated distance to the feature must be shown but need not be drawn to scale.**
☐ 3. If the county health department will not be performing the site evaluation, the applicant or authorized agent shall be responsible for the measurements to all features, including the pertinent features within 75 feet of the applicant lot. **The location of any public drinking water well, as defined in paragraph 64E-6.002(44)(b), F.A.C., within 200 feet of the applicant's lot shall also be shown, with the distance indicated from the system to the well.**
☐ 4. If an individual lot is five acres or greater, the applicant may draw a minimum one acre parcel to scale showing all required features, or the minimum size drawing necessary to properly exhibit all required features, whichever is larger. The applicant must also show the location of that one acre or larger parcel inside the total site ownership. *To scale parcel must be large enough to provide sufficient authorized flow.*
☐ 5. All information that is necessary to determine the total sewage flow and proper setbacks on the site ownership shall be submitted with the application. The applicant lot shall be clearly identified. **A copy of the legal description or survey must accompany the application for confirmation of property dimensions only.**

FOR REPAIR APPLICATIONS: A site plan (*NOT REQUIRED TO BE DRAWN TO SCALE*) showing:
☐ property dimensions
☐ the existing and proposed system configuration and location on the property
☐ the building location
☐ potable and non-potable water lines, within the existing and proposed drainfield repair area
☐ the general slope of the property
☐ property lines and easements
☐ any obstructed areas
☐ any private well *show private potable wells if within 100 feet of system, non-potable within 75 feet*
☐ any public wells *show if within 200 feet of system*
☐ any surface water bodies and stormwater systems *show if within 100 feet of system. Requires a surveyor to set the Mean High Water Line boundary for tidally influenced surface water bodies. Requires a surveyor or department staff to set the Mean Annual Flood Line for permanent non-tidal surface water bodies.*
☐ The existing drainfield type shall be described. For ex., mineral aggregate, non-mineral aggregate, chambers, or other.
☐ **Any unusual site conditions which may influence the system design or function** such as sloping property, drainage structures such as roof drains or curtain drains, and any obstructions such as patios, decks, swimming pools or parking areas.

FOR ALL SITE PLANS (IF APPLICABLE)
☐ A Coastal Construction Control Line Permit or an exemption notice from the Department of Environmental Protection if any component of the onsite sewage treatment and disposal system or the shoulders or slopes of the system mound will be seaward of the Coastal Construction Control Line, established under Section 161.053, F.S. Should the location of the proposed onsite system relative to the control line not be able to be definitively determined based on the site plan and the online products available on the DEP website, the applicant shall provide a survey prepared by a certified professional surveyor and mapper showing the location of the control line on the subject property.
☐ All plans and forms submitted by a licensed engineer shall be dated, signed and sealed.
☐ The evaluator shall document the **locations of all soil profiles** on the site plan.

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Floor Plan

- Floor Plan is required
- Verify the floor plan is consistent with application and site plan
- Scaled
- Or total bldg. area, showing bedrooms

64E-6.004(3)(b), FAC
"For residences, a floor plan drawn to scale or showing the total building area of the structure, at the applicants' option, and showing the number of bedrooms and the building area of each dwelling unit…" *note: the sentence continues regarding commercial site plans.*

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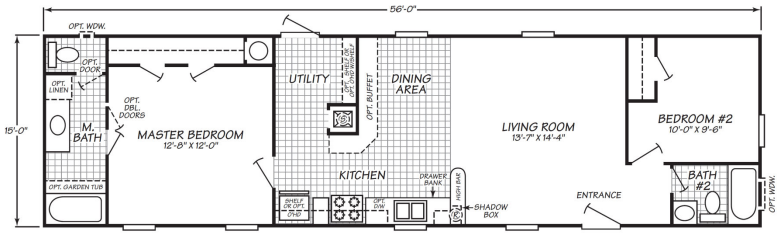
Sample Floor Plan

FLOOR PLAN for Tom Smith - 312 Cypress Avenue,

2 Bedrooms • 2 Baths • 840 Square Feet



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Setbacks

- Private potable wells (**75 ft.**), non potable (**50 ft.**)
- Other public drinking water wells (**100 – 200 ft.**)
- Storm sewer pipe (**max possible or not <5 ft.**)
- Dry - ponds/drainage features, retention areas (**15 ft.**)
- Building foundations, pilings, mobile home walls, swimming pool walls, property lines (**5 ft.**)
- Drainfields shall not be installed below, sidewalks, decks and patios. Mound drainfield, (**4 ft.**) from these features (the shoulder shall not be covered).

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Setbacks

- Potable water lines (**10 ft.**) or not less than (**2 ft.**) if double sleeved or consist of schedule 40 PVC or stronger.
- Non-potable water lines (**2 ft.**) and **(<2 ft.)** if backflow devices.
- Groundwater interceptor drains (**15 ft.**)
- Effluent transmission lines (schedule 40 PVC) – to private potable wells, irrigation wells and surface water bodies not less than (**25 ft.**)
- Effluent transmission lines (schedule 40 PVC) – to property lines and building foundations not less than (**2 ft.**)
- Effluent transmission lines (schedule 40 PVC or double sleeved) – potable water lines and storm sewer lines not less than (**5 ft.**)

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Setbacks – Surface Water Bodies

- **Surface water bodies (75 ft.) if platted/ subdivided prior to 1972 (50 ft.)**
  - Tidal – the surface water boundary (mean high water line, MHWL) must be determined by a licensed professional surveyor and mapper.
    the MHWL must be located on the site plan or additional survey by the surveyor including the elevation
  - Non-Tidal - the surface water boundary (mean annual flood line, MAFL) may be determined by certified department personnel or a licensed professional surveyor and mapper.
    the (MAFL) must be located on the site plan or additional survey by the surveyor. Must include documentation of the MAFL indicator

    see Section 381.0065,FS, Memo 11-006 and more details covered day 2 in Soils Course

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Site Evaluation
Form DH 4015
pg. 3 of 4

- Net Usable Area Available
- Estimated sewage flow
- Authorized sewage flow
- Unobstructed Area Available

Note: The remainder of the site evaluation is covered in ACT days 2 and 3 – Soils Course

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #. 10-1000-N

APPLICANT: Tom Smith AGENT: Sunshine Septic Company

LOT: 5 BLOCK: NA SUBDIVISION: Oviedo Oaks

PROPERTY ID #:[Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTEMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINNEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [x] YES [ ] NO NET USABLE AREA AVAILABLE: 0.37 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 300 GALLONS PER DAY [RESIDENCES-TABLE 1/OTHER-TABLE2]
AUTHORIZED SEWAGE FLOW: 554.41 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 3375.00 SQFT UNOBSTRUCTED AREA REQUIRED: 375.00 SQFT

BENCHMARK/REFERENCE POINT LOCATION: disc on CL of RD near SE corner of property
ELEVATION OF PROPOSED SYSTEM SITE IS 12 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: 80 FT DITCHES/SWALES: 35 FT NORMALLY WET? [ ] YES [x] NO
WELLS: PUBLIC: NA FT LIMITED USE: NA FT PRIVATE: 85 FT NON-POTABLE: 73 FT
BUILDING FOUNDATIONS: 10 FT PROPERTY LINES: 17 FT POTABLE WATER LINES: 14 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [x] NO 10 YEAR FLOODING? [ ] YES [x] NO
10 YEAR FLOOD ELEVATION FOR SITE: NA FT MSL/NGVD SITE ELEVATION: NA FT MSL/NGVD

SOIL PROFILE INFORMATION SITE 1

MUNSELL #/COLOR	TEXTURE	DEPTH
10YR 2/1 Blk	FS	0 TO 6
10YR 5/1, 7/1	FS	6 TO 12
10YR 7/2	FS	12 TO 32
10YR 3/1 Dk Br	FS spodic	32 TO 39
10YR 4/3 Br	FS spodic	39 TO 45
10YR 5/3 Br	FS	45 TO 72
		TO
		TO
		TO

USDA SOIL SERIES: similar to Myakka

SOIL PROFILE INFORMATION SITE 2

MUNSELL #/COLOR	TEXTURE	DEPTH
10YR 2/1 Blk	FS	0 TO 7
10YR 5/1, 7/1	FS	7 TO 12
10YR 7/2	FS	12 TO 18
10YR 2/1 Blk	FS spodic	18 TO 40
10YR 3/3 Dk Br	FS spodic	40 TO 48
10YR 5/4 YB	FS	48 TO 72
		TO
		TO
		TO

USDA SOIL SERIES: similar to Myakka

OBSERVED WATER TABLE: 16 INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT]
ESTIMATED WET SEASON WATER TABLE ELEVATION: 6 INCHES [ABOVE / BELOW] EXISTING GRADE
HIGH WATER TABLE VEGETATION: [x] YES [ ] NO MOTTLING: [x] YES [ ] NO DEPTH: 6 INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: FS/0.80 DEPTH OF EXCAVATION: 48 INCHES
DRAINFIELD CONFIGURATION: [x] TRENCH [ ] BED [ ] OTHER (SPECIFY)
REMARKS/ADDITIONAL CRITERIA:
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Stripping at 6" below grade "10YR 7/1 in 5/1 matrix".

SITE EVALUATED BY: Carroll Sweet, ESI DATE: 7/2/2010

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC Page 3 of 4

Application/Permitting Process

Documents/Forms Required

Day 1 **MC Part I – Onsite Wastewater Concepts Regulations and the Application Process**	▪ Application Form (DH 4015, pg. 1 of 4) ▪ Site Plan (DH 4015, pg. 2 of 4) ▪ Floor Plan ▪ Site Evaluation (DH 4015, pg. 3 of 4)
Day 2 – 3 **MC Part II – Introduction to Florida Soils and the Site Evaluation Process**	▪ Site Evaluation (DH 4015, pg. 3 of 4)
Day 4 – 5 **MC Part III – Onsite System Construction Permits and Inspections**	▪ Construction Permit (DH 4016, pg. 1 of 3) ▪ Final Inspection and Approval (DH 4016, pg. 2 of 3)

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Application
Form DH 4015 pg. 1 of 1

- Applicant/ authorized agent
- Date lot platted/subdivided *(need to validate)*
- Property size *(from lot dimensions, must be consistent with site plan)*
- Water supply
- Sizing criteria *(must be consistent with floor plan)*

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 10-1000-N
DATE PAID: 7/01/2010
FEE PAID:
RECEIPT #:

APPLICATION FOR:
[x] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ]

APPLICANT: Tom Smith
AGENT: Sunshine Septic Company TELEPHONE:407-111-1111
MAILING ADDRESS: 111 Somewhere Place, Oviedo, FL 32765

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 5 BLOCK: NA SUBDIVISION: Oviedo Oaks PLATTED: 1/1/71

PROPERTY ID #: 293031000782 ZONING: R I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: .40 ACRES WATER SUPPLY: [x] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: 312 Cypress Ave., Geneva, FL 32765

DIRECTIONS TO PROPERTY: see attached map

BUILDING INFORMATION [x] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SFR	2	840	
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify)

SIGNATURE: *Tom Smith* DATE: 7/01/2010

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC
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Does This Lot Meet Lot Size Requirements?

Yes. It was platted prior to 1972, and there are no minimum lot size requirements; however, it must not exceed authorized sewage flow allowances.

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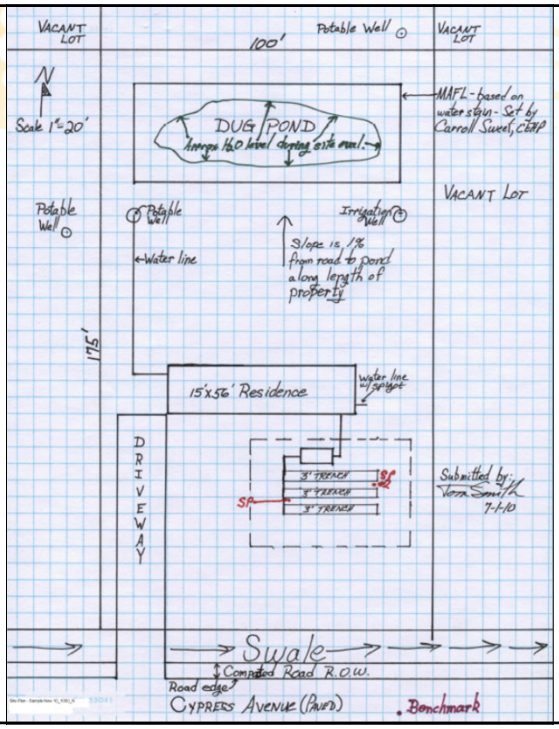
Site Plan



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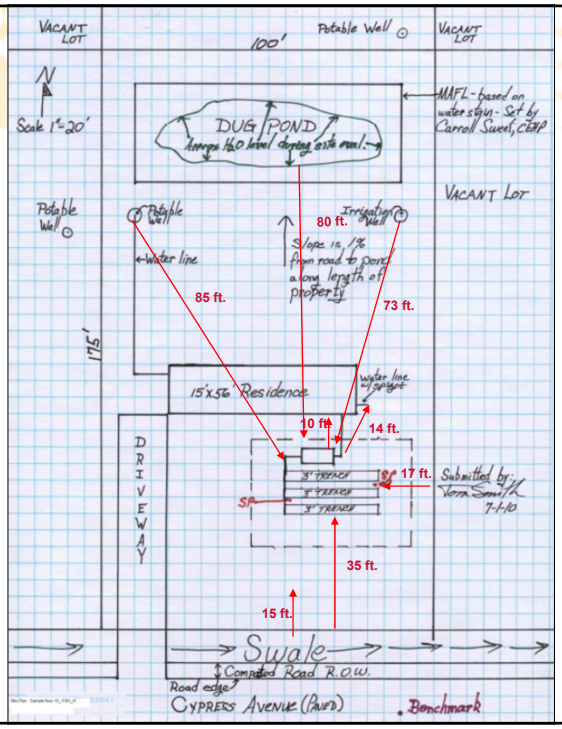
Site Plan
with dimensions or setbacks



35 35

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Lot size and Determination of Net Usable Area:

- Calculate Property Dimensions (Lot Size)
  100 ft. x 175 ft. = 17,500 sq. ft.
- Add permissible public rights-of-way and easements
  10 ft. x 100 ft. = 1000 sq. ft.
- Exclude paved and compacted road beds in rights-of-ways
- Exclude surface water bodies
  30 ft. x 80 ft. = 2,400 sq. ft.
- Calculate in Acreage – **Net Usable Area of Lot**
  17,500 sq. ft. + 1,000 sq. ft. – 2,400 sq. ft. = 16,100 sq. ft.
  (16,100 sq. ft. / 43,560 sq. ft. per acre) = .37 acres

Net usable area of property in acres exclusive of all paved areas and prepared road beds within public rights-of way or easements and exclusive of streams, lakes, normally wet drainage ditches, marshes, or other such bodies of water. Contiguous unpaved an non-compacted road rights-of-way and easements with no subsurface obstructions may be included in calculating lot area. 6464E-6.005(7)(c)

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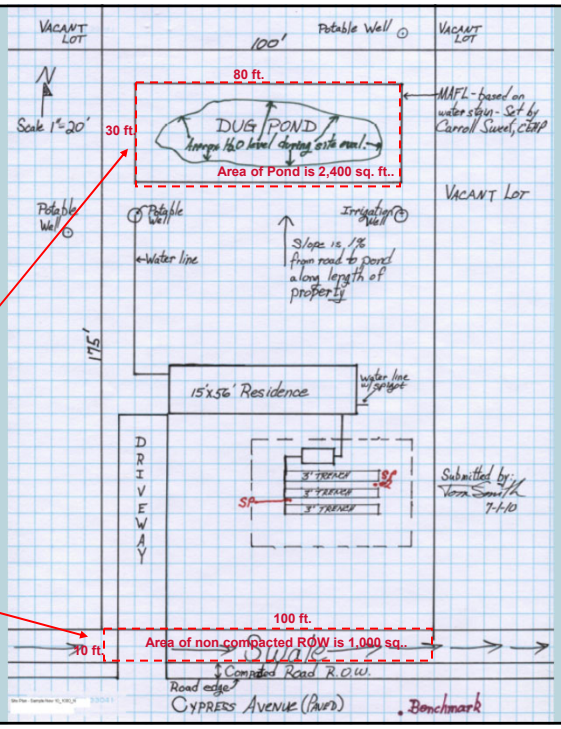
Site Plan

- Net Usable Area Available is 16,100 sq. ft. or .37 acres|
- Excludes Surface Water Body (pond)
- Add non-compacted ROW



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Site Evaluation
Form DH 4015
pg. 3 of 4

- Net Usable Area Available

Note: The remainder of the site evaluation is covered in ACT days 2 and 3 – Soils Course

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #. 10-1000-N

APPLICANT: Tom Smith AGENT: Sunshine Septic Company

LOT: 5 BLOCK: NA SUBDIVISION: Oviedo Oaks

PROPERTY ID #:[Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTEMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINNEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [x] YES [ ] NO NET USABLE AREA AVAILABLE: 0.37 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 200 GALLONS PER DAY [RESIDENCES-TABLE 1/OTHER-TABLE2]
AUTHORIZED SEWAGE FLOW: 554.41 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 3375.00 SQFT UNOBSTRUCTED AREA REQUIRED: 375.00 SQFT

BENCHMARK/REFERENCE POINT LOCATION: disc on CL of RD near SE corner of property
ELEVATION OF PROPOSED SYSTEM SITE IS 12 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: 80 FT DITCHES/SWALES: 35 FT NORMALLY WET? [ ] YES [x] NO
WELLS: PUBLIC: NA FT LIMITED USE: NA FT PRIVATE: 85 FT NON-POTABLE: 73 FT
BUILDING FOUNDATIONS: 10 FT PROPERTY LINES: 17 FT POTABLE WATER LINES: 14 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [x] NO 10 YEAR FLOODING? [ ] YES [x] NO
10 YEAR FLOOD ELEVATION FOR SITE: NA FT MSL/NGVD SITE ELEVATION: NA FT MSL/NGVD

SOIL PROFILE INFORMATION SITE 1

MUNSELL #/COLOR	TEXTURE	DEPTH
10YR 2/1 Blk	FS	0 TO 6
10YR 5/1, 7/1	FS	6 TO 12
10YR 7/2	FS	12 TO 32
10YR 3/1 Dk Br	FS spodic	32 TO 39
10YR 4/3 Br	FS spodic	39 TO 45
10YR 5/3 Br	FS	45 TO 72
		TO
		TO
		TO

USDA SOIL SERIES: similar to Myakka

SOIL PROFILE INFORMATION SITE 2

MUNSELL #/COLOR	TEXTURE	DEPTH
10YR 2/1 Blk	FS	0 TO 7
10YR 5/1, 7/1	FS	7 TO 12
10YR 7/2	FS	12 TO 18
10YR 2/1 Blk	FS spodic	18 TO 40
10YR 3/3 Dk Br	FS spodic	40 TO 48
10YR 5/4 YB	FS	48 TO 72
		TO
		TO
		TO

USDA SOIL SERIES: similar to Myakka

OBSERVED WATER TABLE: 16 INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT]
ESTIMATED WET SEASON WATER TABLE ELEVATION: 6 INCHES [ABOVE / BELOW] EXISTING GRADE
HIGH WATER TABLE VEGETATION: [x] YES [ ] NO MOTTLING: [x] YES [ ] NO DEPTH: 6 INCHES

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DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC Page 3 of 4

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Estimated Sewage Flow

64E-6.008, Table I
2 bedroom single family residence with
840 sq. ft. bldg. area requires
200 gallons per day

(must be consistent with the application sizing criteria and floor plan)

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TABLE I
For System Design
ESTIMATED SEWAGE FLOWS

RESIDENTIAL:	GPD
Residences	
(a) Single or multiple family per dwelling Unit	
1 Bedroom with 750 sq. ft. or less of building area	100
2 Bedrooms with 751-1200 sq. ft. of building area	200
3 Bedrooms with 1201-2250 sq. ft. of building area	300
4 Bedrooms with 2251-3300 sq. ft. of building area	400
For each additional bedroom or each additional 750 square feet of building area or fraction thereof in a dwelling unit, system sizing shall be increased by 60 gallons per dwelling unit.	
(b) Other per occupant	50

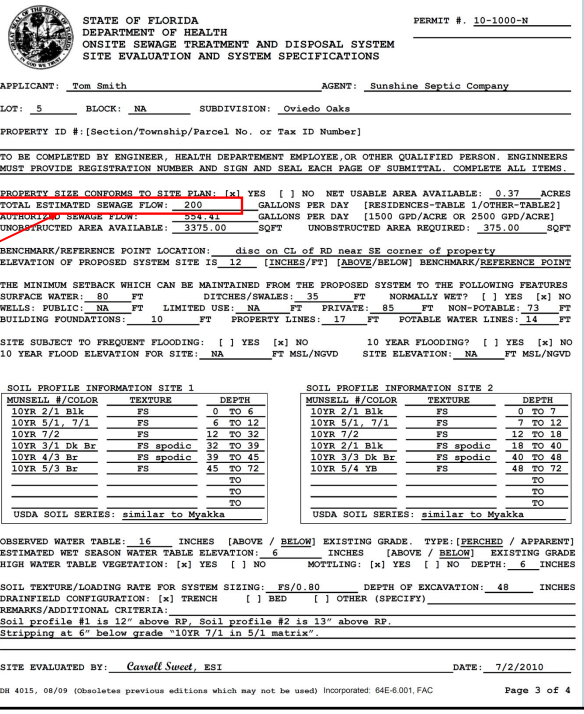
40

40

Site Evaluation
Form DH 4015
pg. 3 of 4

- Estimated sewage flow

Note: The remainder of the site evaluation is covered in ACT days 2 and 3 – Soils Course



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #. 10-1000-N

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LOT: 5 BLOCK: NA SUBDIVISION: Oviedo Oaks

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		TO
		TO
		TO

USDA SOIL SERIES: similar to Myakka

SOIL PROFILE INFORMATION SITE 2

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10YR 7/2	FS	12 TO 18
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Authorized Sewage Flow

= Net usable area (acres) x Maximum Daily Sewage Flow

For lots served by private well: maximum daily sewage flow is 1500 gpd/per acre

(.37 acres) x (1500 gpd per acre) =

554.41 ~ 555 gpd

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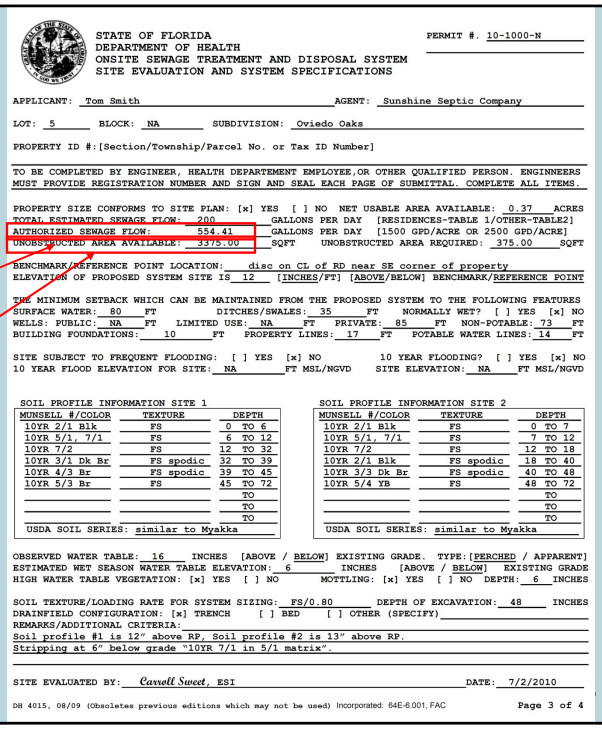
Site Evaluation
Form DH 4015
pg. 3 of 4

- Authorized Sewage Flow
- Unobstructed Area Available

Note: The remainder of the site evaluation is covered in ACT days 2 and 3 – Soils Course



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		TO
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USDA SOIL SERIES: similar to Myakka

SOIL PROFILE INFORMATION SITE 2

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		TO
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DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC Page 3 of 4

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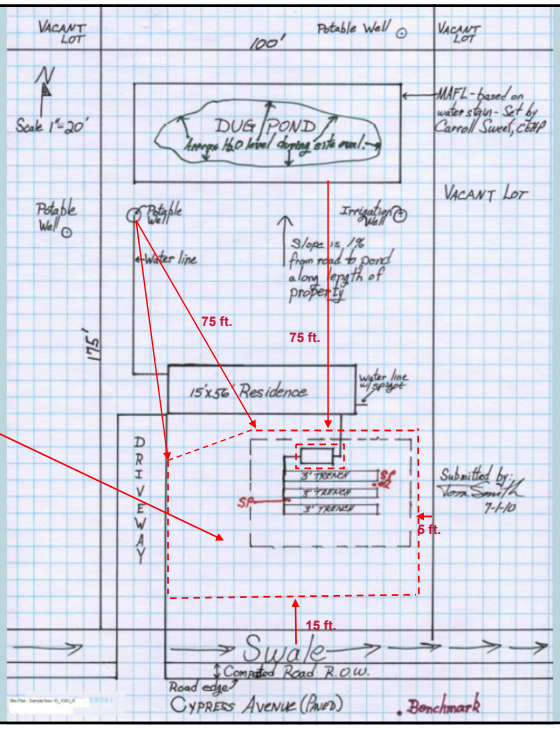
Site Plan with dimensions or setbacks

- Unobstructed Area Available
- 3375 sq. ft.



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Questions?

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