SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: BALLARD WOODS — LOT 174

INITIAL SYSTEM: APPROVED 25% RECUCTION pump To — REPAIR APPROVED 25% REDUCTION pump To

DISTRIBUTION: D-Box — DISTRIBUTION TBD (off site)

BENCHMARK: 100.0 — LOCATION TOP WATER METER

NO. BEDROOMS: 3 — LTAR 0.4 GPD/FT2

| | LINE | FLAG COLOR | ELEVATION | LENGTH |
|---|---|---|---|---|
| Initial system | 1 | P | 97.84 | 75' |
| | 2 | B | 96.50 | 75' |
| | 3 | Y | 95.84 | 75' |
| | 4 | O | 94.92 | 50' 17 marks |
| | | | | 225' |

Repair off site (see Chandler Soil NOTES)

BY M EAKER — DATE 01/2016

TYPICAL PROFILE

0 - 10 LS (VFR, GR)

10 - 36+ SCL (FR/FI, SBK)

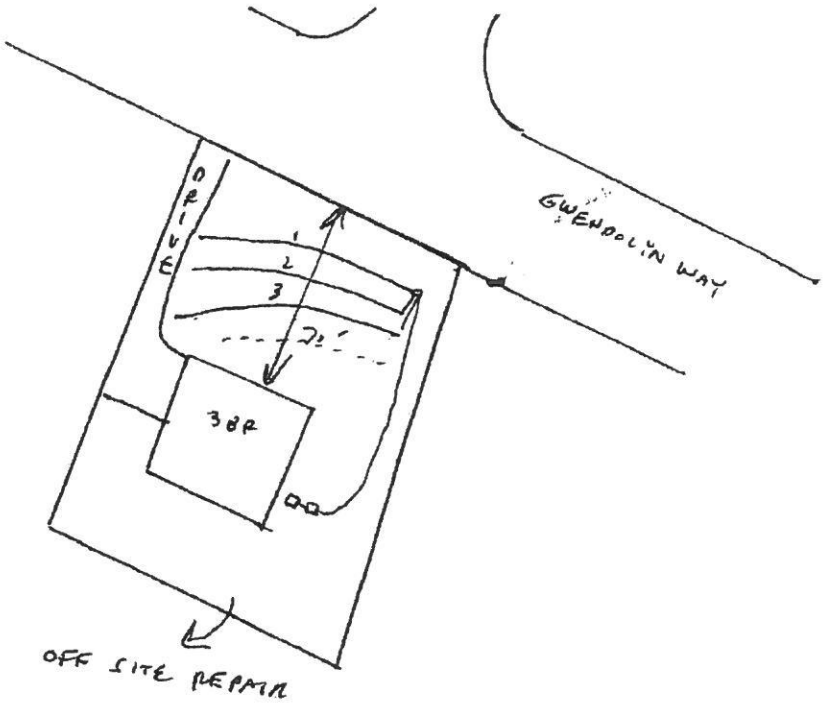
Cr 2 @ 34"

INSTALL AT 18"

THERE SHALL BE NO GRADING, CUTTING, LOGGING OR OTHER SOIL DISTURBANCE IN SEPTIC AREA

# Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321
Fayetteville, NC 28311
Phone/Fax (910) 822-4540
Email mike@southeasternsoil.com


70' FRONT SETBACK

LOT 174

PROPOSED SEPTIC

# Ballard Woods Subdivision - Phase 4, Lot 174

Site Plan & Evaluation
for On-Site Wastewater Treatment & Disposal
March 13, 2008

- Survey property line
- Septic setback
- House setback
- Drainfield
- 10' building envelop
- Clearing limits

When indicated

- P 25' Layout line
- Supply line
- Ductile Iron or equivalent
- Stream
- Stream buffer
- Interceptor drain

A — Boring Position
34" v — Boring Name, Soil Condition, Boring Depth

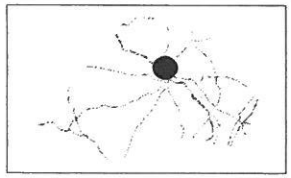
## Soil Conditions

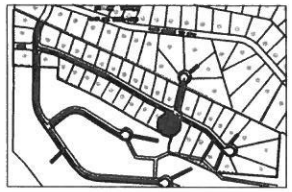
+ = Likely favorable below
w = Soil wetness
v = Plinthite

## Layout Colors

P = Pink
R = Red
O = Orange
Y = Yellow
B = Blue
W = White

**Area flagged in yellow "caution" tape.**

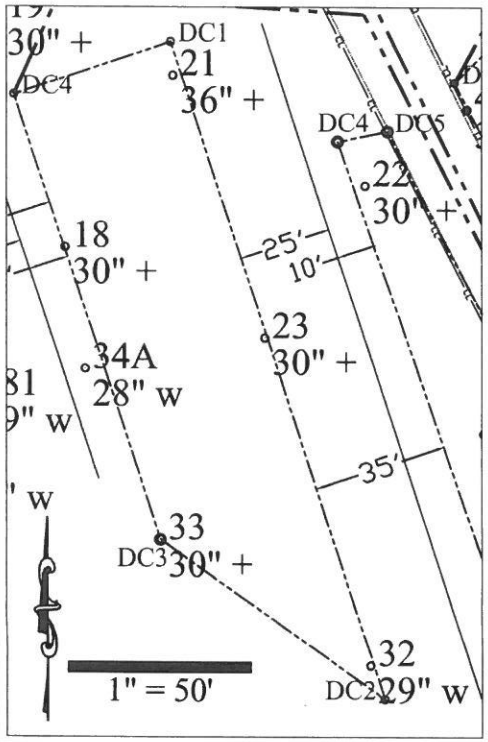




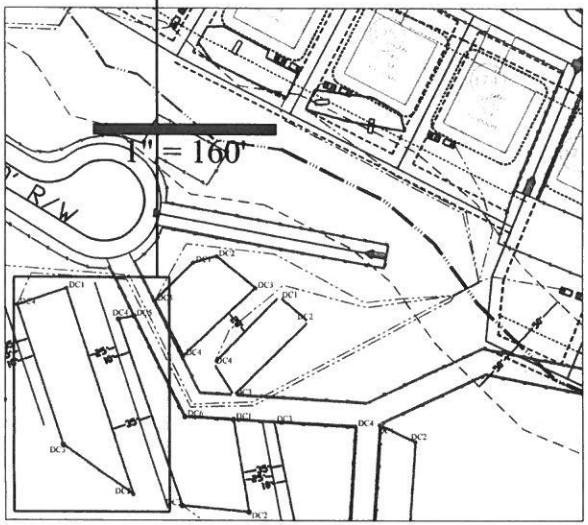
Phase 4 location

- Septic tank
- Pump tank
- Pit

**Recommended System:**
**3-bedroom (6 residents maximum)**
**Initial and Repair:** Off Site Innovative Gravelless Trench with cap.
**Recommended LTAR:** 0.40 gallons/day/square feet.
**Most restrictive texture in treatment zone:** Soil Group III: Sandy Clay Loam.
**Recommended trench bottom placement:** 18 inches downhill side.
Line length needed = 450 feet: Minimum total area needed = 4050 square feet.
Line length needed = 450 feet.
Minimum total area needed = 4,050 square feet, area designated 6,979± square feet.

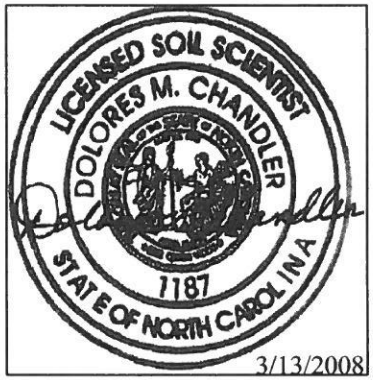



Area enlarged at left




Locations and specifications for tanks, supply lines, and stream crossings are suggestions. Due to topographic irregularities and other considerations, actual locations or material specifications may be changed at time of permitting or installation, at the discretion of the permitting authority.

Pit/boring locations marked with numbers and/or letters. DC1, etc. = drainfield corners, where corner is not marked with pit/boring.
Lot will require health department approval. Some adjustments may be necessary at that time due to soil variability and topographic irregularities. House and drainfield areas not survey accurate.
Recommendations for house location and/or size, and septic system type, size, and/or location may be invalidated if site alterations (including road cut/fill, drainage, and other grading) occur.




3/13/2008

Chandler Soil Corporation
5306 Hwy. 54 West
Chapel Hill, NC 27516
**919-932-5008**
**chandlersoil@earthlink.net**

**Owner/ Buyer:** Ballard Woods **Date Evaluated** 2007/2008 **Location:** Lot 174-B Ballard Woods Phase IV

**Proposed Facility:** SFD **Proposed Design Flow (.1949):** up to 360 gal/day/sq ft

**Co:** Harnett **Well Supply:** Community **Evaluation Method:** Pit, Auger

| PROFILE | FLAG COLOR | Landscape Slope | HORIZON | Depth (in) | TEXTURE | SOIL STRUCTURE | | | MINEROLOGY CONSISTENCE MOIST/WET | | | SOIL COLOR MATRIX | | SOIL COLOR MOTTLES | NOTES/ LTAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | GRADE | CLASS | TYPE | | | | | | | |
| 174-33 | R | 6-8% | AO | 0-9 | SL | 1 | F | GR | VFR | | | | | | |
| | | | Bt | 9-23 | SCL | 1-2 | F-M | SBK | FI-FR | MS | | | | | |
| | | | BC | 23-30 | SCL | 1-2 | F-M | SBK | FI-FR | MS | | | | [FE] 5YR 5/8 | .45 30+ |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 174-34A | R | 6% | AO | 0-8 | SL | 1 | F | GR | VFR | | | | | | |
| | | | Bt | 8-22 | SCL | 2-1 | F-M | SBK | FI | | | | | | |
| | | | BC | 22-28 | SCL | 1-2 | F-M | SBK | FI-FR | | | | | | |
| | | | BC | 28+ | SCL | 1-2 | F-M | SBK | FI-FR | | | | | 2.5Y 6/2 | .40 28w |
| | | | | | | | | | | | | | | | |
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| Texture | | | | Structure | | | | Mineralogy | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | GRADE | | TYPE | | MOIST | |
| Coarse Sand | COS | Very Fine Sandy Loam | VFSL | Structureless | 0 | Granular | GR | Loose | L |
| Sand | S | Loam | L | Weak | 1 | Angular Blocky | ABK | Very Friable | VFR |
| Fine Sand | FS | Silt Loam | SIL | Moderate | 2 | Subangular Blocky | SBK | Friable | FR |
| Very Fine Sand | VFS | Silt | SI | Strong | 3 | Platy | PL | Firm | FI |
| Loamy Coarse Sand | LCOS | Sandy Clay Loam | SCL | CLASS | | Wedge | WEG | Very Firm | VFI |
| Loamy Sand | LS | Clay Loam | CL | Very fine | VF | Prismatic | PR | Extr. Firm | EF |
| Loamy Fine Sand | LFS | Silty Clay Loam | SICL | Fine | F | Columnar | COL | WET | |
| Loamy Very Fine Sand | LVFS | Sandy Clay | SC | Medium | M | | | Non-Sticky | SO |
| Coarse Sandy Loam | COSL | Silty Clay | SIC | Coarse | CO | Single Grain | SGR | Slightly Sticky | SS |
| Sandy Loam | SL | Clay | C | Thick (PL) | TK | Massive | MA | Moderately Sticky | MS |
| Fine Sandy Loam | FSL | | | Very Coarse | VC | | | Very Sticky | VS |
| | | | | Very Thick (PL) | VK | Cloddy | CDY | Non-Plastic | PO |
| | | | | Extremely Coarse | EC | | | Slightly Plastic | SP |
| | | | | | | | | Moderately Plastic | MP |
| | | | | | | | | Very Plastic | VP |

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3/12/2008