



Welcome Neighbors

East & West Spring Lake Contract D

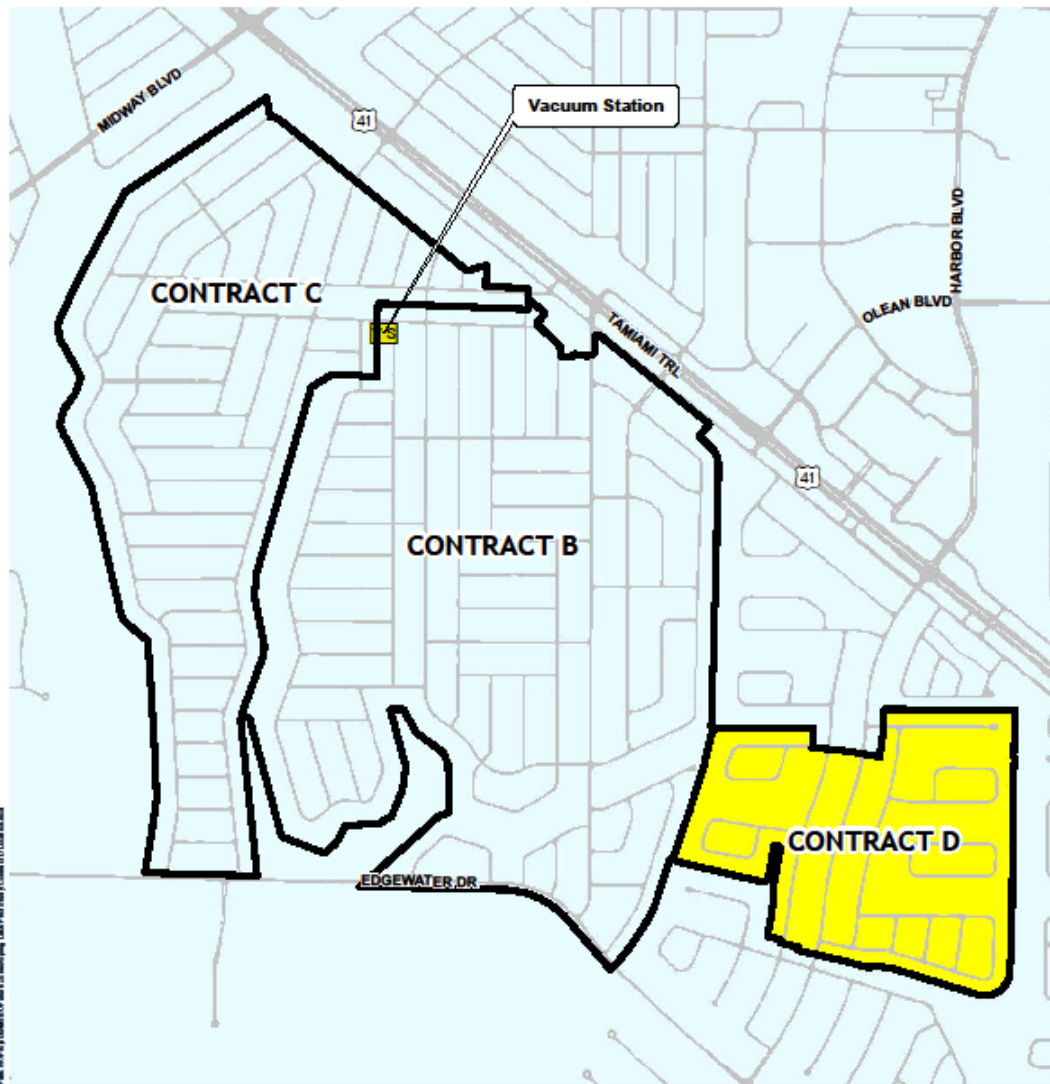
Feb. 23, 2017

Ruta Vardys – Project Engineer
Dean Campbell – Project Manager

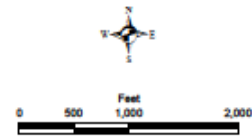


CHARLOTTE COUNTY
Project 11-0048
East and West Spring Lake Wastewater Expansion

Charlotte County Government
"To exceed expectations in the delivery of public services."
www.CharlotteCountyFL.gov



Title: Contract D Location
Date: 11/21/2019
Created By: David E. Cain
Coordinate System: NAD 1983 StatePlane Florida West FIPS 5002 Feet
Projection: Transverse Mercator
Center: 81°42'00.0048"W 28°58'24.1812"N
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Project Partners - Contract D

- Owner - Charlotte County Utilities
- Engineer - Giffels Webster
- Contractor – Metro Equipment Services (Vacuum Station & Collection System)
- Equipment Supplier – Aqseptence Group
- UF/IFAS Extension Service – Charlotte County
- WQ Monitoring – TetraTech/Johnson Engineering



Project Summary – Contract D

- Installation of approx. 4.7 miles of vacuum sewer main
- Installation of approx. 4 miles of potable water main
- Construction of vacuum collection station
- Installation of central sewer system to serve approximately 400 properties
- Some existing properties on Harbor Blvd. will be converted from Low Pressure Sewer to Vacuum Sewer
- Restoration of drainage swales
- Partially funded by SRF loan, Federal/State grants and by State appropriation
- Remaining project costs funded through MSBU assessment
- Turn key project, no additional out-of-pocket expenses



Project Summary – Contract D

- Potable water main replacement
 - Upgrade and replace all potable water mains
 - New meter boxes and meters
 - More fire protection
 - Homeowners insurance rate reduction
 - Notification provided for potable water service interruption
- Stormwater Improvements
 - Pipe replacement
 - Swale rehabilitation



How it works – Vacuum Sewer

How it Works:

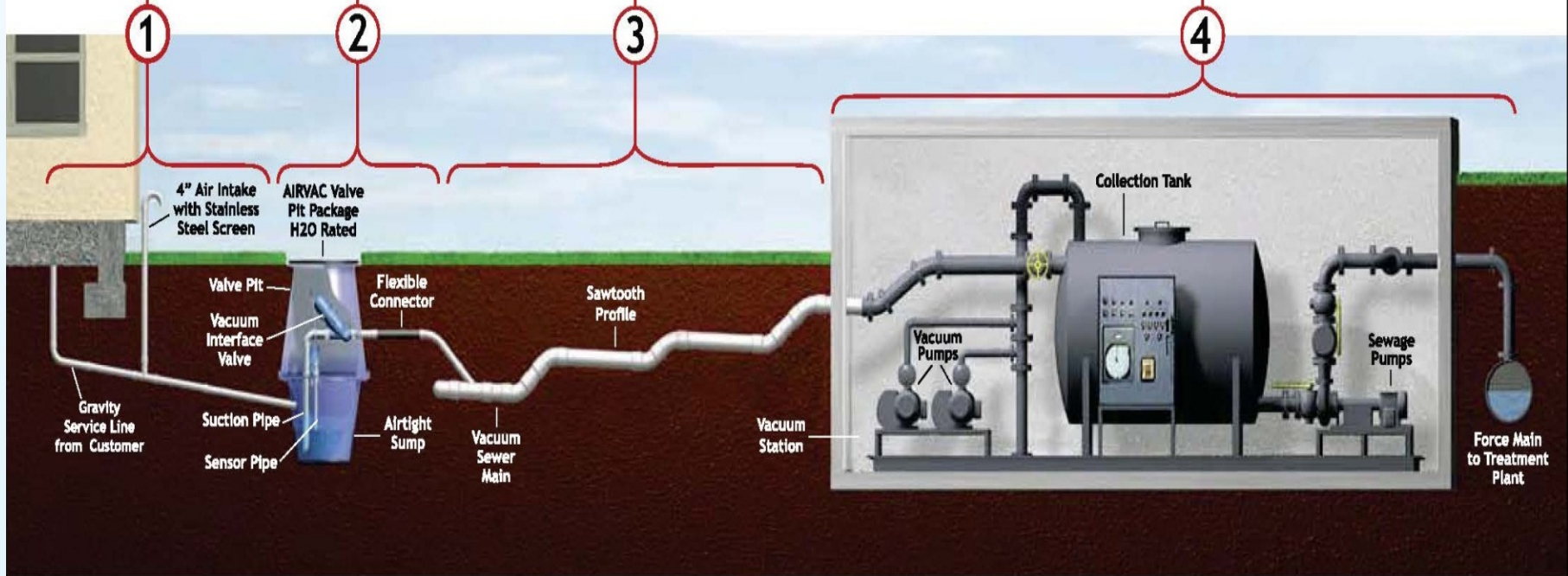
1 A traditional gravity line carries wastewater from the customer to an AIRVAC valve pit package.

2 When 10 gallons of wastewater collects in the sump, the AIRVAC valve opens and differential pressure propels the contents into the vacuum main.

3 Wastewater travels at 15 to 18 fps in the vacuum main, which is laid in a sawtooth fashion to insure adequate vacuum levels at the end of each line.

4 Wastewater enters the collection tank. When the tank fills to a predetermined level, sewage pumps transfer the contents to the treatment plant via a force main.

Vacuum pumps cycle on and off as needed to maintain a constant level of vacuum on the entire collection system.





Vacuum Station





What to Expect

- Main lines installed outside of pavement except for intersections and where service connections cross roads
- Valve pits and air intake terminals to be installed within right-of-way, near property line
- Water service may be disrupted for short periods, boil water advisories issued as required. Prior notice will be provided
- Trench road cuts will be repaired
- Pavement resurfacing project scheduled after completion of wastewater expansion project



What to Expect

- Driveways:
 - Access may be restricted when contractor is working in immediate area
 - Will be temporarily restored until final restoration is completed. Final restoration to match existing driveway surface type
- Drainage swales will be completely restored
- Notice will be provided to residents prior to start of construction within each area impacted
- Work will be performed in multiple phases to minimize disruption
- Photos & video will be taken prior to construction

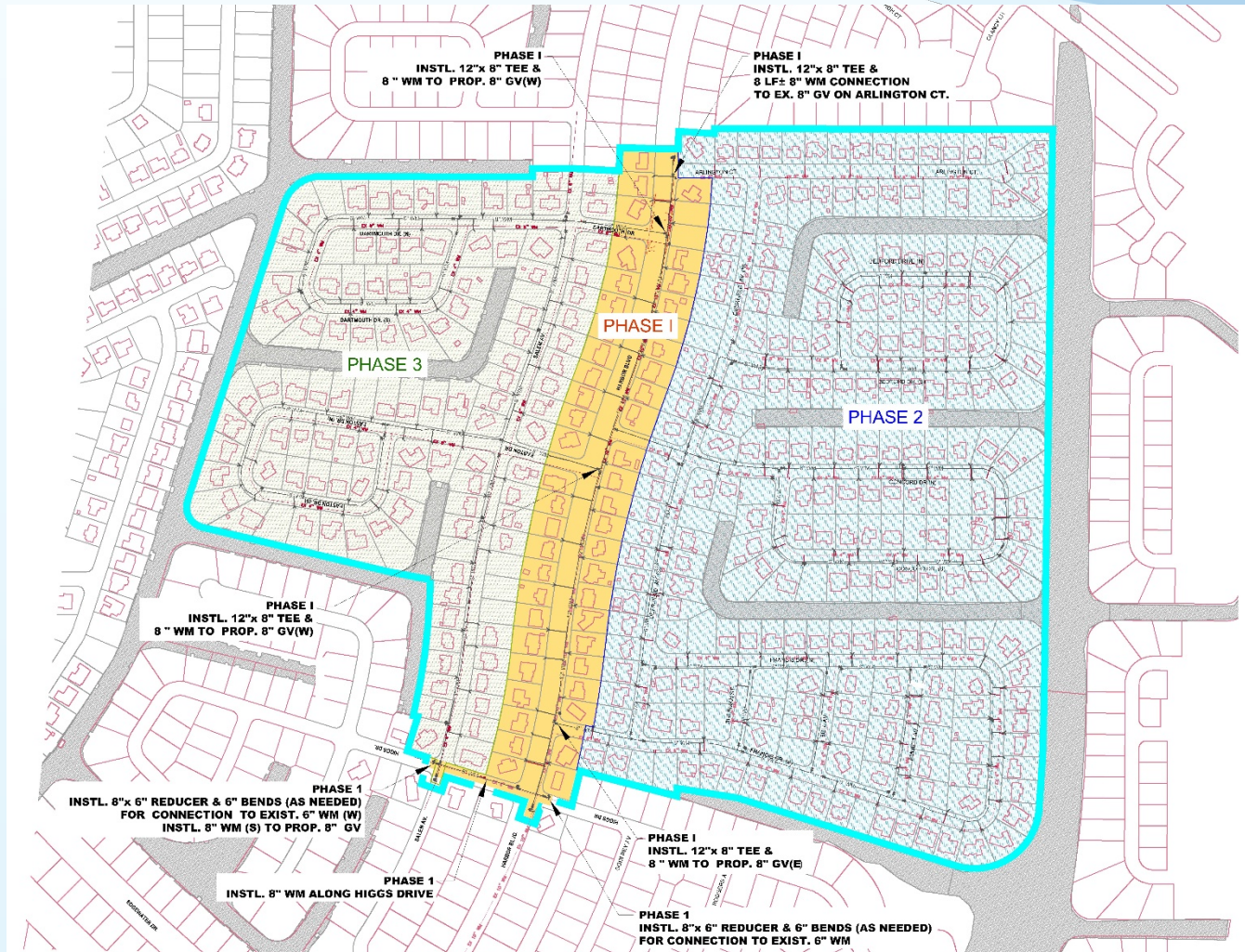


What to Expect

- Regular work hours between 7am and 7pm, expect:
 - Noise
 - Dewatering/standing water
 - Dust
 - Construction traffic
- Provisions will be made to maintain:
 - Emergency Services
 - US Mail and other deliveries
 - Local traffic only
 - Garbage/Recyclables/Lawn Waste collection
 - School bus routes
 - Public Safety vehicles

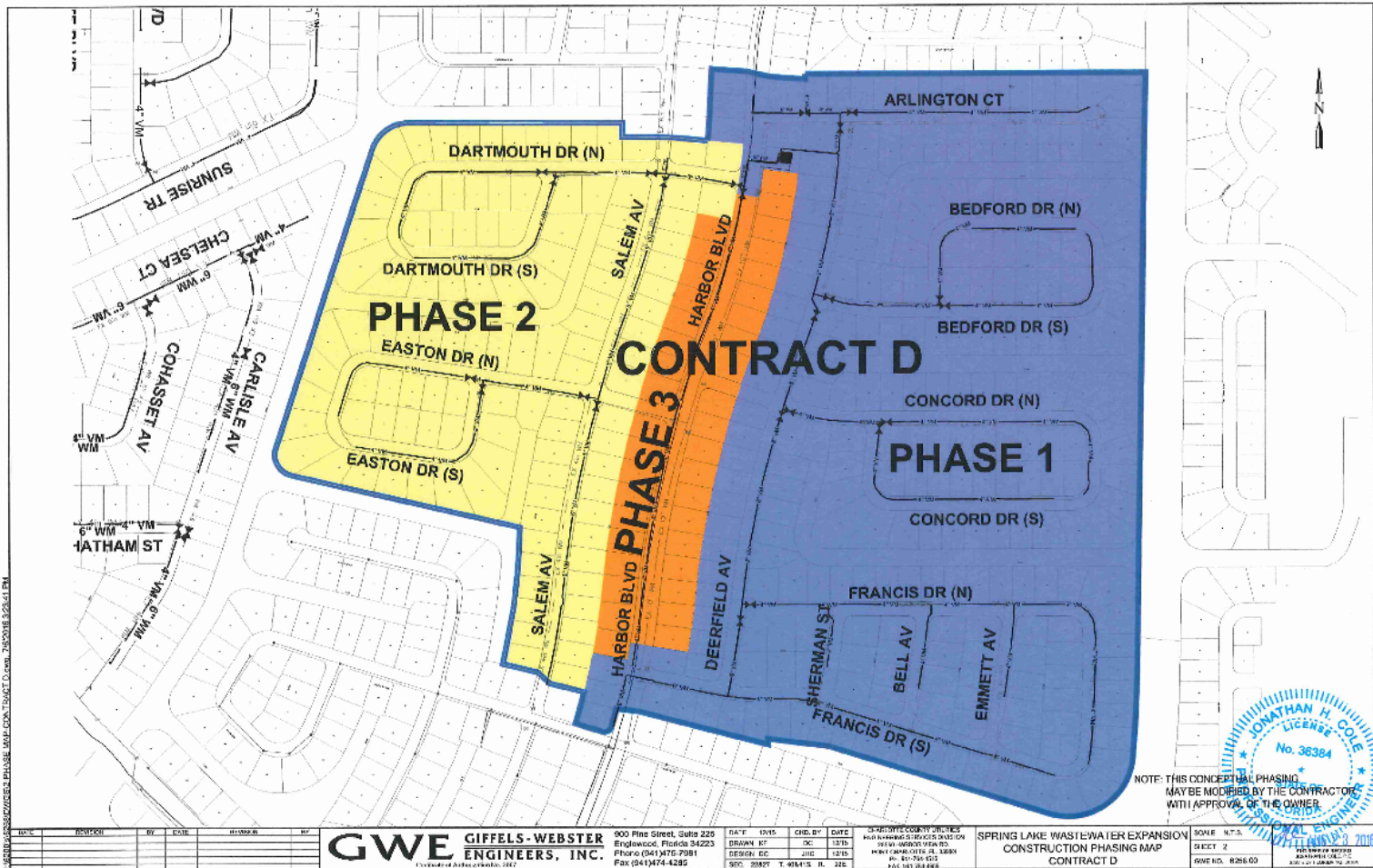


Construction Phasing - Water





Construction Phasing - Sewer



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NO.	REVISION	BY	DATE	DESCRIPTION

GWE GIFFELS-WEBSTER
 ENGINEERS, INC.
 800 Pine Street, Suite 225
 Englewood, Florida 34223
 Phone (941) 476-7981
 Fax (941) 474-4285

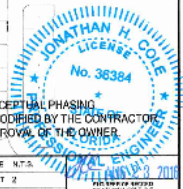
DATE: 1/15/15
 DRAWN BY: JHC
 DESIGN BY: JHC
 SEC: 20827 T. 40M1'S N. 22E.

G.W. WEBSTER COUNTY PROJECT
 10000 S.W. 10TH AVENUE, SUITE 100
 MIAMI, FLORIDA 33156
 PHONE: (305) 415-1500
 FAX: (305) 415-1500

SPRING LAKE WASTEWATER EXPANSION
 CONSTRUCTION PHASING MAP
 CONTRACT D

SHEET 2
 SHEET NO. 8286-03

NOTE: THIS CONCEPTUAL PHASING
 MAY BE MODIFIED BY THE CONTRACTOR
 WITH APPROVAL OF THE OWNER.





Prep for On-Lot Construction

- On-lot agreement/information
 - Grants County/plumbers a temporary easement to access private property
 - Septic tank location(s)
- Initial meeting with each property owner to review on-lot construction:
 - Location of septic tank
 - Connection to house sewer
 - Routing sewer service lateral
 - Future improvements to property discussed
 - Address questions/concerns



On-Lot Construction

- Work will be scheduled in advance, expected to take 6-8 hours to complete
- There will be a period when sewer service will not be available to your home, maximum 8 hours
- Existing septic tank to be abandoned per regulations, drain field abandoned in place
- Sewer service lateral will be installed from home to connection point at property line, cleanouts installed in accordance with plumbing codes
- Property will be restored in a timely manner



On-lot Agreement

AGREEMENT FOR INSTALLATION OF CUSTOMER SEWER SERVICE LINE AND TEMPORARY CONSTRUCTION EASEMENT

THIS AGREEMENT is made and entered into this _____ day of _____, 20____, by and between _____, whose address is _____ (hereinafter "OWNER") and CHARLOTTE COUNTY, (hereinafter "COUNTY").

WHEREAS, OWNER owns certain real property, more fully described in Exhibit "A," attached hereto and incorporated herein by reference, that is located in the East West Spring Lake Sewer Expansion area and is required to connect to sewer once the line is available; and

WHEREAS, OWNER understands that OWNER has the right to have the customer sewer service line installed on OWNER's property by a properly licensed contractor of OWNER'S choosing and at OWNER's sole expense, but OWNER has voluntarily elected to have COUNTY install the customer sewer service line on OWNER's property and is willing to voluntarily grant COUNTY a temporary construction easement to perform such work.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, and for other good and valuable consideration, whose receipt and adequacy are hereby acknowledged, the parties agree as follows:

1. OWNER acknowledges and agrees that connecting sewer to OWNER's property will require the installation of piping and equipment on OWNER's property. COUNTY shall perform said installation at no additional cost to OWNER, subject to the terms and conditions of this Agreement.
2. OWNER hereby grants a temporary construction easement to COUNTY, its agents and employees, to enter OWNER's property in order to construct a new sewer service connection, including the abandonment of any existing septic tank. COUNTY shall provide a one (1) year warranty for materials and workmanship for the installation.
3. Upon completion of installation of the customer sewer service line and related work on OWNER's property, COUNTY agrees to restore all disturbed areas, plants, shrubs, fences and grass to the condition they were at the time the work authorized hereunder began.
4. After installation of the customer sewer service line, all lines and equipment located on OWNER's property shall be maintained solely by OWNER at OWNER's expense. With the exception of warranty work, COUNTY will not thereafter be responsible for any maintenance, operation, replacement, or repair of the customer sewer service line or any other equipment on OWNER's property needed to effectively deliver the wastewater to COUNTY's sewer system.
5. As consideration for COUNTY installing, at no cost to OWNER, the customer sewer service line on OWNER's property, OWNER, and OWNER's heirs, personal representative, successor and assigns, agrees to hold COUNTY harmless from any and all liability, claim or damage, including, but not limited to reasonable attorney's fees and costs incurred at all levels, resulting from or in any manner related to the installation of the customer sewer service line by COUNTY on OWNER's property.
6. This Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, personal representative, successors and assigns.
7. This Agreement contains the entire Agreement of the parties with respect to the subject matter hereof, and may only be modified, amended or terminated in writing and signed by both parties.

IN WITNESS WHEREOF, the parties have executed this Agreement the date written above.

Witnesses:

OWNER

Print Name: _____

COUNTY

By: _____



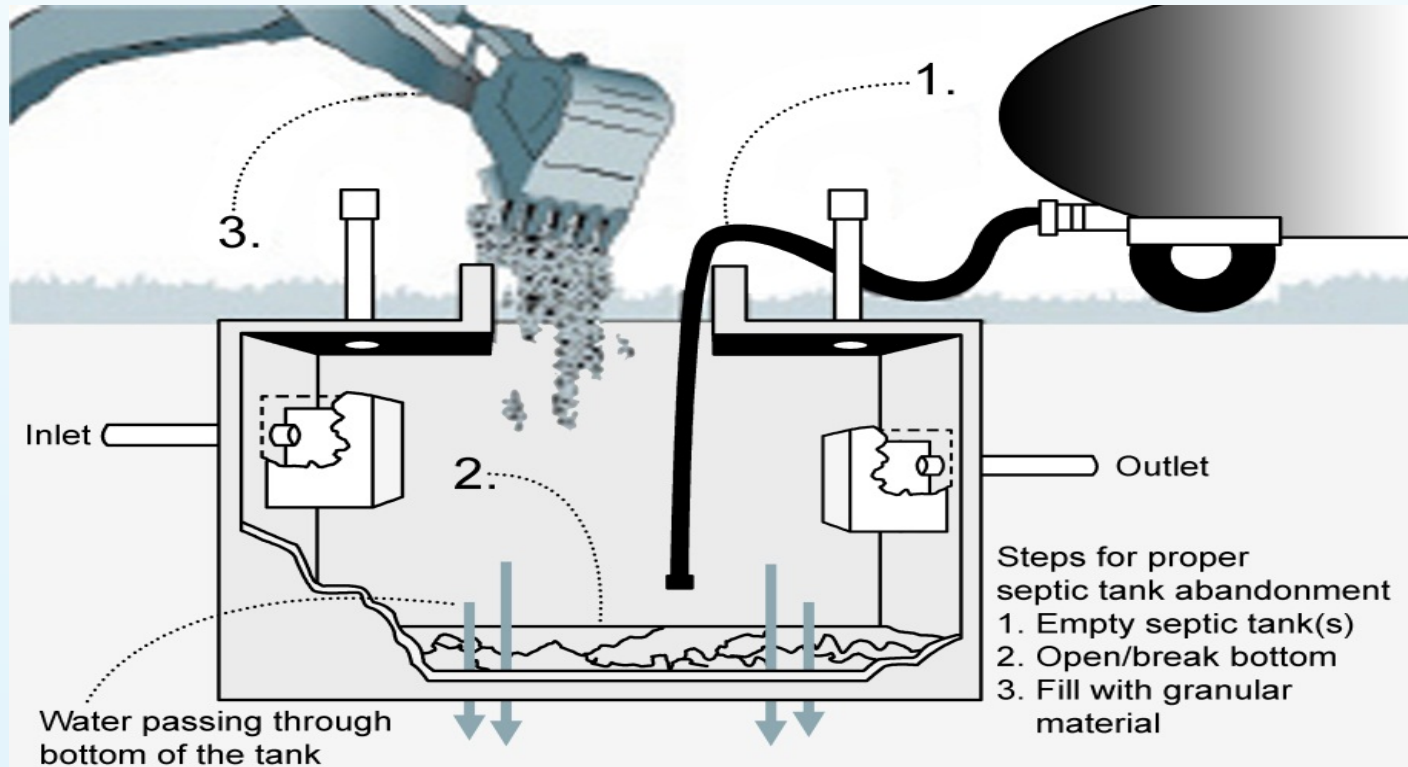
On-Lot Improvements

- Septic Tank Abandonment
 - Concrete Tanks
 - Crushed and filled
 - Fiberglass/Poly Tanks
 - Removed and filled



On-Lot Improvements

Concrete Tank Abandonment





On-Lot Improvements

Poly/Fiberglass Abandonment





Septic System Issues

Your septic is still your responsibility:

- First, contact your septic service or plumber to verify issue is with onsite system (not house plumbing).
- Provide a receipt or report that system is in failure to Utilities Department at 764-4300 x 3.

Obtain an ATU Variance:

- If you have an Aerobic Treatment Unit (ATU), then obtain a variance for the maintenance contract and annual operating permit from Department of Health at 743-1266. Provide a copy to Utilities.



Monitoring Program

- Groundwater monitoring wells installed
- Water sampling ongoing
- Program to continue after construction





Other ways residents can help protect watershed



Lawns Green & Waterways Clean



Surface water and base flow runoff enter into natural and artificial storm water and drainage conveyances and natural water bodies in Charlotte County.

Leaching and runoff of nutrients from improper or excess fertilization practices can contribute to nitrogen and phosphorus pollution of the community's water resources.



County Fertilizer Ordinance

*Chg #14
BCL*

FILED WITH THE DEPARTMENT OF STATE - June 21, 2011

CHARLOTTE COUNTY CLERK OF CIRCUIT COURT
OR BOOK 3590, PGS 1493-1500 8 pg(s)
INSTR # 2027450
Doc. Type GOV. Recorded 06/30/2011 at 07:43 AM
Rec. Fee: \$69.50
Cashiered By: PATT Doc. # 2

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ORDINANCE NUMBER 2011-017

AN ORDINANCE OF CHARLOTTE COUNTY, FLORIDA, PROVIDING THAT THE CODE OF LAWS AND ORDINANCES OF CHARLOTTE COUNTY, FLORIDA, BE AMENDED BY AMENDING CHAPTER 3-9, ZONING, SECTION 3-9-64.1, FERTILIZER REGULATIONS; PROVIDING FOR A BLACKOUT PERIOD; PROVIDING FOR REVISED FERTILIZER NITROGEN RATES; PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Charlotte County adopted Ordinance 2008-028 on March 18, 2008 which regulated fertilizer application within the County in order to address the leaching and runoff of nutrients from improper or excess fertilization practices can contribute to nitrogen and phosphorus pollution of the community's water resources; and

WHEREAS, Charlotte County now desires to revise Ordinance 2008-028 as part of continuing efforts and in coordination with our neighboring jurisdictions as part of the Charlotte Harbor National Estuary Program's Comprehensive Conservation and Management Plan to reduce nutrient leaching into runoff through such polices as, but not limited to public education and development of standards as set forth in this ordinance; and

WHEREAS, the provisions of this ordinance which revise Charlotte County's existing fertilizer ordinance have been submitted for comment to the Florida Department of Environmental Protection, the Florida Department of Agriculture and Consumer Services, and the University of Florida as required by Section 403.9337, Florida Statutes; and

WHEREAS, specific authority for the Board to adopt this Ordinance includes, but is not limited to, Article VIII, Florida Constitution of 1968, Section 125.01, Florida Statutes.

NOW, THEREFORE, BE IT ORDAINED by the Board of County Commissioners of Charlotte County, Florida:

Section 1. Findings. The above "WHEREAS" are hereby deemed by the Charlotte County Board of County Commissioners to constitute findings for purposes of this Ordinance and are incorporated herein.

Section 2. Chapter 3-9 of the Code of Laws and Ordinances of Charlotte County, Florida is hereby amended by adding the underlined language and by ~~deleting the stricken~~ language to provide as follows:

8
★
Mans



Fertilizer Label

What To Look For On Your Fertilizer Label

% of Total N as Slow-Release Nitrogen (SRN) =

$$\frac{7}{14} \times 100 = 50\%$$

(Meets 50% SRN Charlotte County Requirement)



Nitrogen N

Phosphate P_2O_5

Potash K_2O

GUARANTEED ANALYSIS

TOTAL NITROGEN (N).....	14.00 %
14.45% Urea Nitrogen (N)*	
SOLUBLE POTASH (K_2O).....	26.00 %
SULFUR (S) Total.....	19.70 %
10.50% Free sulfur (S)	
9.20% Combined sulfur (S)	
IRON (Fe) Total.....	0.96 %
0.19% Water Soluble Iron (Fe)	
MANGANESE (Mn) Total.....	0.48 %
0.1% Water Soluble Manganese (Mn)	
DERIVED FROM: Polymer Coated Sulfur Coated Urea, Sulfate of Potash, Iron Oxide, Manganese Oxide.	
CHLORINE (Cl) Max.....	2.00%
*7.00% Slowly Available Urea Nitrogen from Polymer Coated Sulfur Coated Urea.	



Other Ways Residents Can Protect the Watershed



- Limit lawn to reduce water & fertilizer use
- Install drought tolerant trees, shrubs & groundcovers
- Water once a week or use a rain barrel to conserve water
- Use mulch 3-4" deep
- Use porous walkways



Charlotte County UF/IFAS Extension Service Resources

- The FYN Handbook
- Florida-Friendly Landscape Plant Selection Guide
- EDIS FFL Fact Sheets
- Hort. & FYN classes
- Parks that Teach walking tour



<http://floridayards.org>
<http://ffl.ifas.ufl.edu>



Local Contacts

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<http://fyn.ifas.ufl.edu>

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<http://solutionsforyourlife.ufl.edu/>

Ralph E. Mitchell

**County Extension Director/Horticulture Agent
Charlotte County Extension Services – Community
Services**

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Phone: (941)764-4344
Fax: (941)764-4343**

ralph.mitchell@charlottefl.com

<http://charlotte.ifas.ufl.edu>

<http://solutionsforyourlife.ufl.edu/>



Project Updates & Contacts

- Website: CharlotteCountyFL.gov > Utilities > Projects
- Facebook: Facebook.com/ccutilities
- Contact #: 941-764-4300, ext. 3
- Contractor: Metro Equipment Services 305-740-3303



Learn More - Q&A

