



DEC Engineering, Inc.

Professional Civil Engineering

State Certificate # 4244

2467 Centerville Road Tallahassee, Florida 32308
(850) 385-5288 Fax (850) 386-7586 ~ dec@netally.com

Natural Wells Homeowners Association

P.O. Box 3621

Tallahassee, FL. 32315

Project Outline:

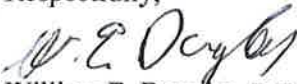
This is to outline the Phase I of the resurface project for Natural Wells Road. This will cover the section from the intersection of Natural Wells Road and Woodville Highway to a point 100' east of the intersection of Natural Wells Road and the centerline of Green Fountain Road. Phase II of the repaving will start at this point.

The work will consist of repairing the pot holes with asphalt pavement to a level compacted repair (see the attached pavement details sheet). After the repairs have been completed, then a new surface consisting of 1 ½ inch of asphalt pavement will be added to top of the existing pavement.

- Step 1 – Mechanically clean all asphalt pavement.
- Step 2 – Clean the pot holes of all loose material.
- Step 3 – Tack and fill the holes with patch material (see pavement details sheet).
- Step 4 – Compact the (SP 12.5 Asphalt Pavement) fill material per the FDOT specifications (see also pavement details sheet 1 of 2).
- Step 5 - Three (3) designated areas, approximately 8'x8' each, shall be excavated to a depth of 24 inches, filled, compacted and new asphalt laid per the "Asphalt Pavement Section for Excavated Areas" detail on the Pavement Detail sheet 1 of 2.
- Step 6 - Tack Coat all existing asphalt and leveling course.
- Step 7 - Overlay with 1 ½ inch top surface using SP 9.5 Friction Course asphalt pavement per FDOT specifications.
- Step 8 - Construct Asphalt Transition Apron for the following dirt roads per the "New 20' Asphalt Apron for Transition to Dirt Road" detail on sheet 1 of 2:
 - a) Blue Waters Road
 - b) Spring Sink Road
 - c) Green Fountain Road
- Step 9 - Add fill along the outside of the edge of the pavement to level to the shoulder. Add 2 feet wide sod strip on the outside edge and finish with a compaction of the layer.
- Step 10 - The following three way stops shall be painted with white thermoplastic Stop Bar striping and install R1-1 Stop signage per the "Striping Detail" on sheet 2 of 2:
 - a) Blue Waters Road
 - b) Spring Sink Road
 - c) Green Fountain Road

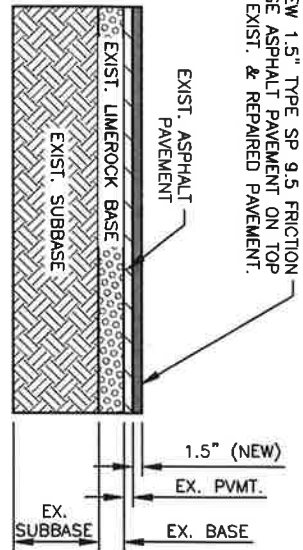
Note: Natural Wells Association shall be responsible for supplying the "R1-1 Stop" signs to be installed by contractor.

Respectfully,


William E. Douglas, P.E.

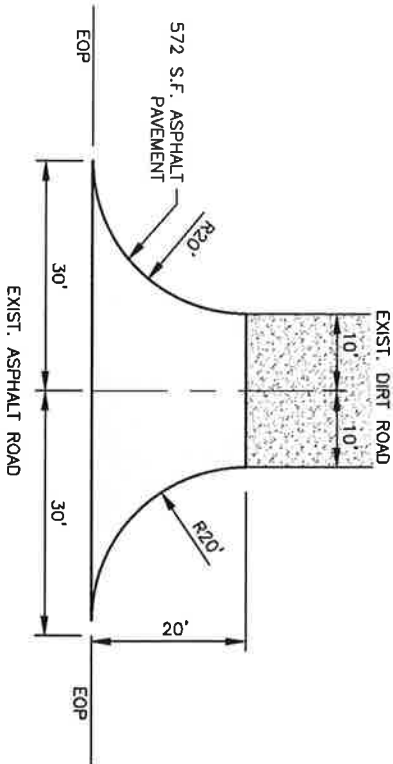
DEC ENGINEERING, INC.

ADD NEW 1.5" TYPE SP 9.5 FRICTION COURSE ASPHALT PAVEMENT ON TOP OF EXIST. & REPAIRED PAVEMENT.



- NOTES:**
1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM WITH FDOT SPECIFICATIONS, LATEST EDITION.
 2. TURNOUTS WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM WITH THE REQUIREMENTS OF FDOT INDEX 515, UNLESS OTHERWISE SPECIFIED IN THE FDOT PERMIT.
 3. EXTEND STABILIZED SUBGRADE MIN. 6" BEYOND EDGE OF PAVEMENT, OR 6" BEYOND CURB & GUTTER WHERE PRESENT.

**NEW ASPHALT PAVEMENT
ADDITION TO TOP OF
EXIST. PAVEMENT**
NOT TO SCALE

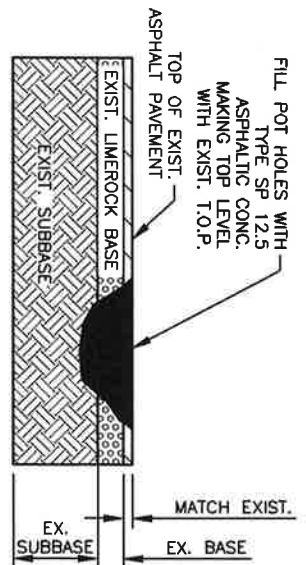


**NEW 20' ASPHALT APRON FOR
TRANSITION TO DIRT ROAD.**

- NOTE:**
TYPICAL FOR THE FOLLOWING DIRT ROADS
CONNECTING TO NATURAL WELLS DRIVE:
- 1) BLUE WATERS ROAD
 - 2) SPRING SINK ROAD
 - 3) GREEN FOUNTAIN ROAD

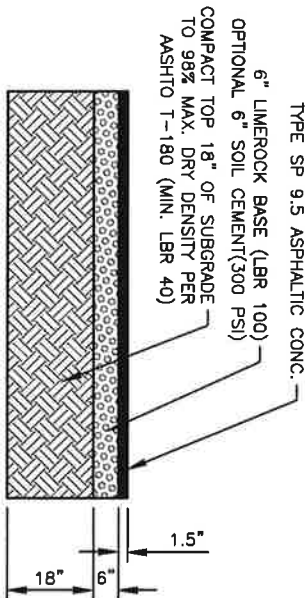
NOT TO SCALE

FILL POT HOLES WITH TYPE SP 12.5 ASPHALTIC CONC. MAKING TOP LEVEL WITH EXIST. T.O.P.



- NOTES:**
1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM WITH FDOT SPECIFICATIONS, LATEST EDITION.
 2. TURNOUTS WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM WITH THE REQUIREMENTS OF FDOT INDEX 515, UNLESS OTHERWISE SPECIFIED IN THE FDOT PERMIT.
 3. EXTEND STABILIZED SUBGRADE MIN. 6" BEYOND EDGE OF PAVEMENT, OR 6" BEYOND CURB & GUTTER WHERE PRESENT.

**REPAIR/PATCH EXIST.
ASPHALT PAVEMENT
(TYPICAL)**
NOT TO SCALE



- NOTES:**
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 2. TURNOUTS WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM WITH THE REQUIREMENTS OF FDOT INDEX 515, UNLESS OTHERWISE SPECIFIED IN THE FDOT PERMIT.
 3. EXTEND STABILIZED SUBGRADE MIN. 6" BEYOND EDGE OF PAVEMENT, OR 6" BEYOND CURB & GUTTER WHERE PRESENT.

**ASPHALT PAVEMENT
SECTION FOR
EXCAVATED AREAS**
NOT TO SCALE

WILLIAM E. DOUGLAS, P.E.
LICENSE #11593

DEC ENGINEERING INC.
STATE CERTIFICATION #4244
DECBILL@NETTALLY.COM

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Date printed: Dec 08, 2017 - 1:09PM

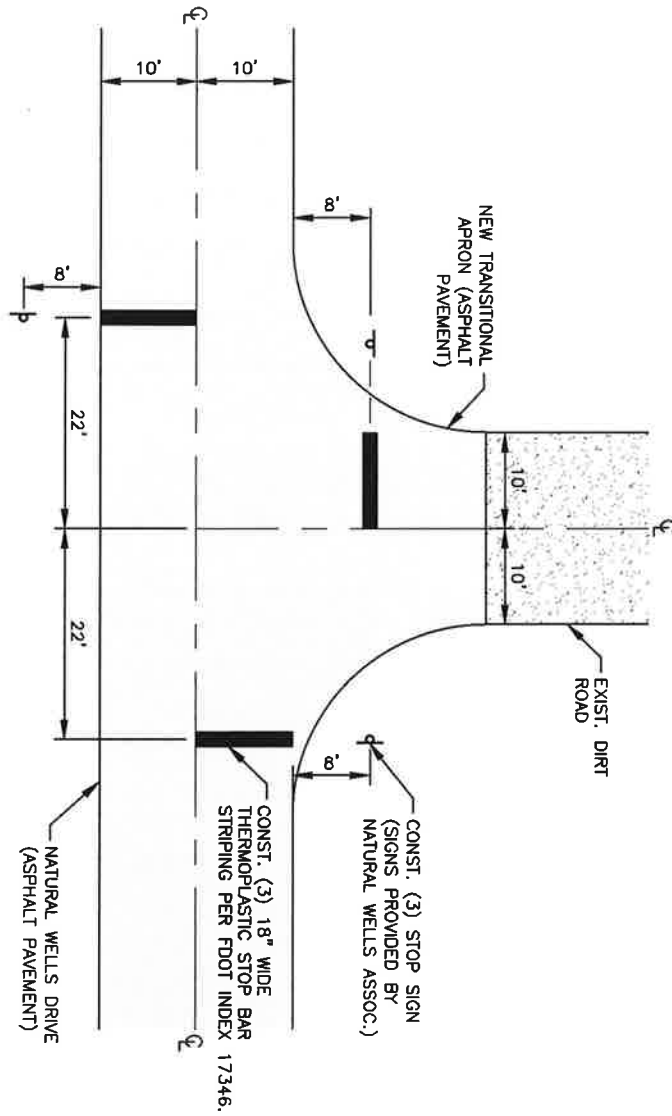
PROJECT: NATURAL WELLS ROAD RESURFACING	
TITLE: PAVEMENT DETAILS	SCALE: N.T.S.
Designed: CAO	Revised: Date:
Drawn: CAO	CAO 12/7/17
Checked: WED	Description:
Date: 12/8/2017	ADDED 20' APRON DETAIL & ASPHALT PVMT SECTION DETAIL.

DEC Engineering, Inc.
William E. Douglas, P.E., President
2467 Centerville Road Tallahassee, FL 32308
Phone: (850) 385-5288 Fax: (850) 386-7686
Email: dec@nettally.com State Certification #4244



Sheet 1 of 2
No. 17D-064

**PROPOSED STRIPING & SIGNAGE
FOR (3) THREE WAY STOPS**
NOT TO SCALE



WILLIAM E. DOUGLAS, P.E.
LICENSE #11553

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STATE CERTIFICATION #4244
DECBILL@NETTALLY.COM


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Date printed: Dec 08, 2017 - 1:09PM

Sheet 2 of 2 No. 17D-064	PROJECT: NATURAL WELLS ROAD RESURFACING	
	TITLE: STRIPING DETAIL	SCALE: N.T.S.
	Designed: CAO	Revised: Date: Description:
	Drawn: CAO	CAO 12/8/17 ADDED STRIPING DETAIL
	Checked: WED	
	Date: 12/8/2017	

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Email: dec@nettally.com State Certification #4244





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Professional Civil Engineering

Natural Wells Homeowners Association
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Tallahassee, FL 32315

Project

Resurface of Natural Wells Road

2467 Centerville Road Tallahassee, Florida 32308
(850) 385-5288 Fax (850) 386-7586 ~ decception@nettally.com
Florida Certificate # (CA) 6354 Alabama Certificate # (CA) 4297 Georgia Certificate # PEF002907
decearthworks.com



Earthworks Geotechnical, Inc.

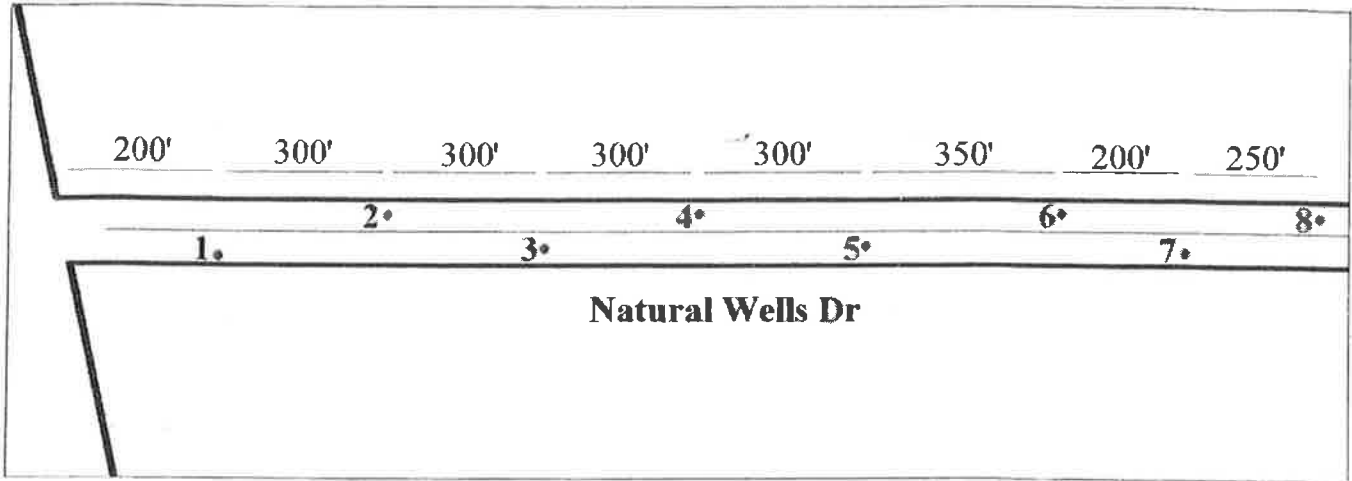
2467 Centerville Road Tallahassee, Florida 32308
(850) 385-5288 Fax (850) 386-7586

Florida Certificate # (CA) 6354 Alabama Certificate (CA) 4297 FDOT Certification # F5933131832
decearthworks.com



Job: 17E-0082 Soil Boring Orientation (NOT TO SCALE):

NORTH ↑



This diagram is a conceptual representation. The diagram should not be considered as an accurate depiction and is for relative position only. The distances are approximate and have not been surveyed. Boring locations are intended to bracket the proposed building site, based on field staking and/or other information provided by the client. Variations in the subsurface conditions may be present between, away from, and around the boring locations and this report does not reflect those variations. If variations are found in the subsurface during construction, it will be necessary to reevaluate the conclusions stated in this report.

8-28-17

DATE

W. E. DOUGLAS, P.E.
Florida Reg. No. 11553



Earthworks Geotechnical, Inc.

2467 Centerville Road Tallahassee, Florida 32308
(850) 385-5288 Fax (850) 386-7586

Florida Certificate # (CA) 6354 Alabama Certificate (CA) 4297 FDOT Certification # F5933131832
decearthworks.com



BORING NUMBER	DEPTH	SOIL DESCRIPTION (Visually Classified)
6 Limestone: N/A SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-12"	Limestone Base
	12"-1½'	Gray Sand
	1½-4½'	Very Pale Brown/Pale Brown/White Sand
	4½-5'	White/Very Pale Brown/Pale Brown Sand
7 Limestone: N/A SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-4"	Limestone Base
	4"-1'	Pale Brown Sand
	1-1½'	Gray Sand
	1½-2'	Light Gray Sand
	2-4'	Very Pale Brown/Pale Brown/White Sand
	4-5'	White/Very Pale Brown/Pale Brown Sand with Small Pockets of Yellowish Brown Slightly Clayey Sand
8 Limestone: 5.5' SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-4"	Limestone Base
	4"-1½'	Gray Sand
	1½-2½'	Gray/Reddish Brown Sand
	2½-3½'	Very Pale Brown/Light Gray/Pale Brown
	3½-4½'	Very Pale Brown/Reddish Brown/Yellowish Brown/Dark Brown Silty Clay with Pipe Clay
	4½-5½'	White Limestone Sediment
	5½'	Limestone Refusal

- Organic material (>2%) should be removed and verified in the above-mentioned borings that contain organic intervals (>2%).
- Shallow GWT encountered, the Client should consult a foundation engineer to determine if a specialized foundation is warranted.
- Due to presence of pipe clay at the test area(s), a specialized foundation is recommended
- Proposed Home area flagged by Client.
- Low bearing soils encountered within SPT or DCP borings (see attached SPT or DCP form for additional notes).
- Based on the above described soil borings, the soils at/near the test areas appear to be suitable for development. Any other findings were noted to be insignificant to require a specially designed foundation

8-28-17
DATE

W. E. Douglas
W. E. DOUGLAS, P.E.
Florida Reg. No. 11553



Earthworks Geotechnical, Inc.

2467 Centerville Road Tallahassee, Florida 32308
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Florida Certificate # (CA) 6354 Alabama Certificate (CA) 4297 FDOT Certification # F5933131832
deearthworks.com



Soil Borings per ASTM D 1452

JOB NUMBER: 17E-0082	DATE OF TEST: 8/28/2017
CLIENT: Hector A DeLao	PROJECT LOCATION: Natural Wells Dr, Woodville
TECHNICIAN: AW/JD	EQUIPMENT USED: Rig/Hand

BORING NUMBER	DEPTH	SOIL DESCRIPTION (Visually Classified)
1 Limestone: N/A SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-6"	Limestone Base
	6"-1½'	Gray/Light Gray Sand
	1½-4½'	Very Pale Brown/Pale Brown/White Sand
	4½-5'	White/Very Pale Brown Sand
2 Limestone: N/A SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-6"	Limestone Base
	6"-1½'	Gray Sand
	1½-4'	Very Pale Brown/Pale Brown/White Sand
	4-5'	White/Very Pale Brown Sand
3 Limestone: N/A SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-6"	Limestone Base
	6"-1½'	Gray/Light Gray Sand
	1½-4'	Very Pale Brown/Pale Brown/White Sand
	4-5'	White/Very Pale Brown Sand
4 Limestone: N/A SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-6"	Limestone Base
	6"-1½'	Gray/Light Gray Sand
	1½-4½'	Very Pale Brown/Pale Brown/White Sand
	4½-5'	White/Very Pale Brown Sand with Reddish Brown Mottles
5 Limestone: N/A SHGWT: N/A GWT: N/A	0-1"	Asphalt
	1-6"	Limestone Base
	6"-1½'	Gray Sand
	1½-4½'	Very Pale Brown/Pale Brown/White Sand
	4½-5'	White/Very Pale Brown Sand with Reddish Brown Mottles

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decearthworks.com

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Tallahassee, FL 32315

Resurface Natural Wells Rd

Woodville Highway to a point 100' east of Natural Wells Rd and the centerline of Green Fountain Rd M.P. 0.0 TO M.P 0.67. Length 3,540' includes all work shown in project outline

Price _____.

Includes total price for this phase of project

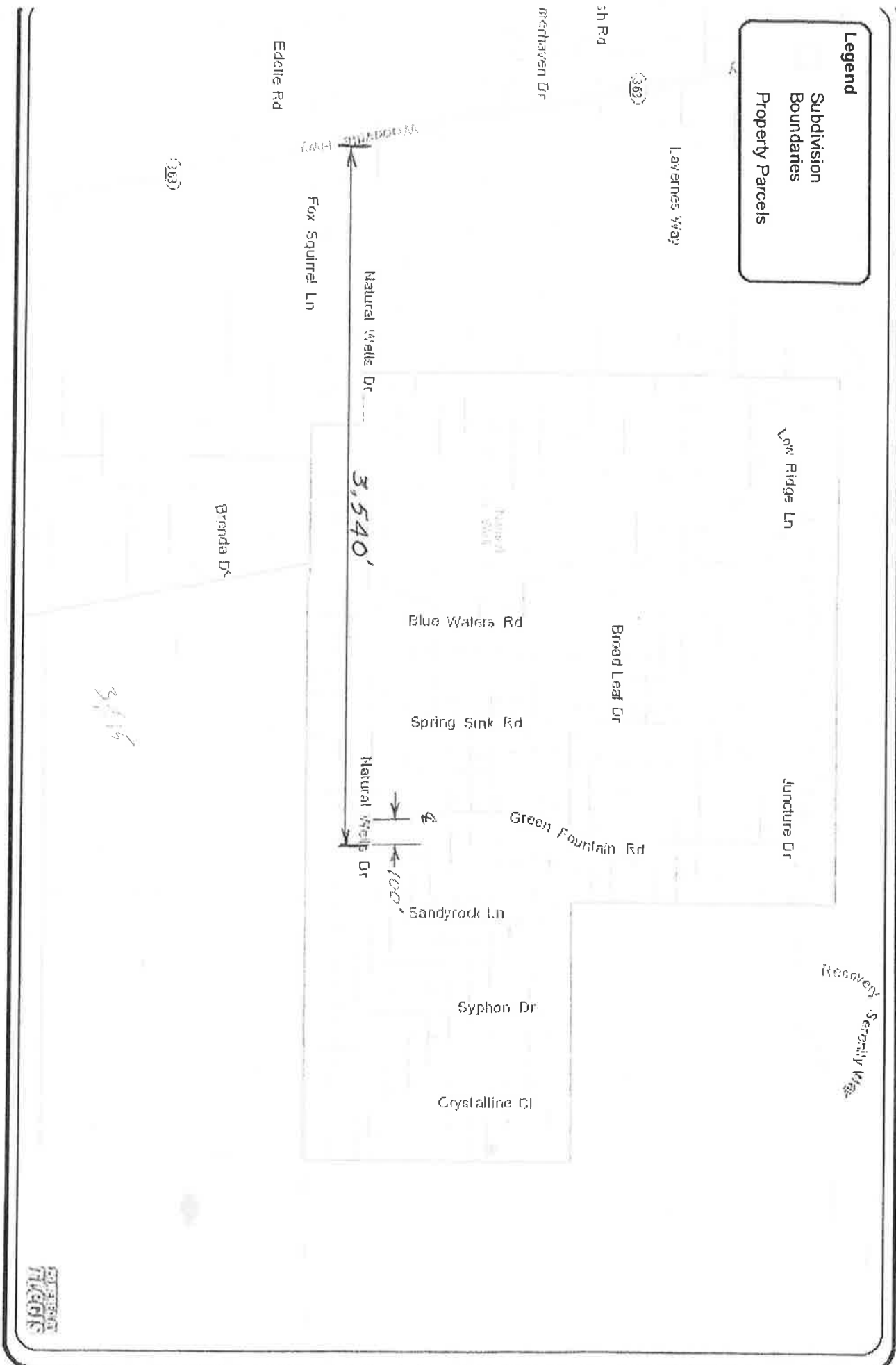
Contract to name. _____

Company _____
Name

DATE
Signature of Company Officer

Address

Legend
 Subdivision Boundaries
 Property Parcels



This product has been compiled from the most accurate source data from Leon County, the City of Tallahassee and the Leon County Property Appraisers Office. However, this product is for reference purposes only and is not to be construed as a legal document or survey instrument. Any reliance on the information contained herein is at the user's own risk. Leon County, the City of Tallahassee, and the Leon County Property Appraisers Office assume no responsibility for any use of the information contained herein or any loss resulting therefrom.

TLCGIS Web Map
DISCLAIMER



Scale:	Tallahassee/Leon County GIS
Not To Scale:	Management Information Services
Date Drawn:	Leon County Courthouse
September 14, 2017	301 S. Monroe St, P3 Level
	Tallahassee, FL 32301
	850/606-5504
	http://www.tlccgis.org

