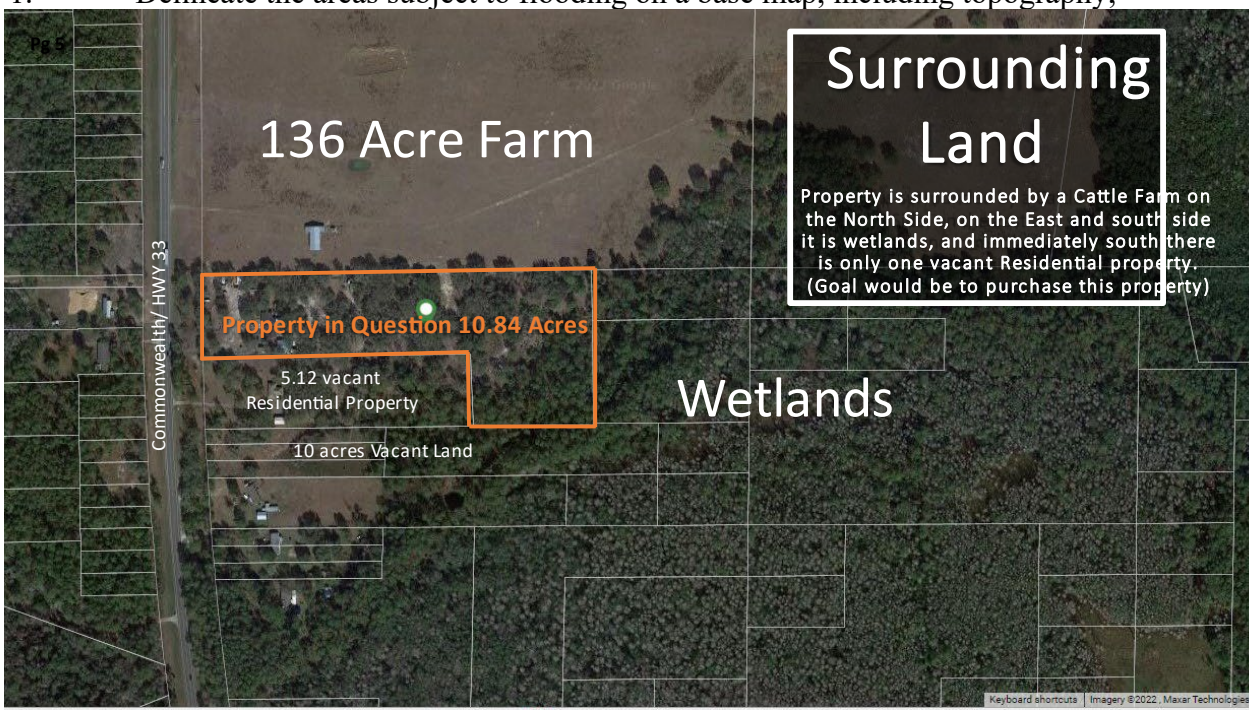
GREEN SWAMP AREA OF CRITICAL

STATE CONCERN IMPACT ASSESSMENT

1. Delineate the areas subject to flooding on a base map, including topography;



2. Describe graphically and in writing how the drainage will be handled; and

3. Describe, in general terms, how the natural flow will be altered by development of the site and how adverse impacts, if any, will be addressed.

The Natural Flow of water should not be impacted at all as we are only adding chain-link and Game fence around the property. There will be two 30X60 Pole barns with a possible third in the future.

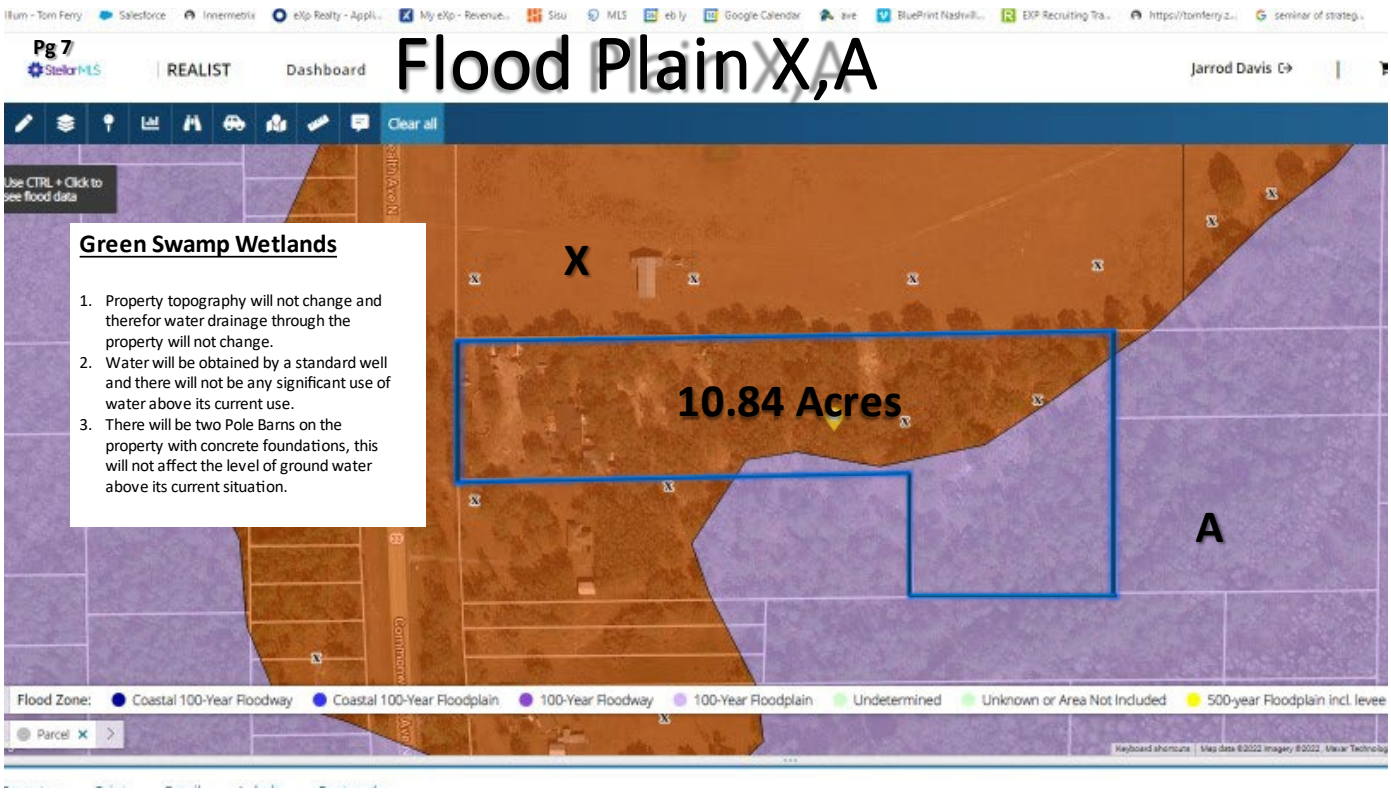
4. Generally describe how development of the site will meet the development criteria requirements of Policy 2.123-B2 of the Polk County Comprehensive Plan.

This project will not have any impact on the green swamp of critical concern. Any and all wetland or floodplain area will remain undeveloped and left in its natural condition.

"WETLAND-PROTECTION AREAS" REQUIREMENTS UNDER POLK COUNTY COMPREHENSIVE PLAN SECTION 2.123-C, WHERE APPLICABLE;

1. Delineate the wetland areas on-site, and those affected by the drainage patterns on the site, in both a pre- and post-development condition on a base map;

C.



1. List those agencies which the applicant believes have wetlands jurisdiction on the site and locate agencies by specific wetland if more than one wetland.

Not Sure

2. Impacts to the wetlands shall be avoided. If impacts are unavoidable, describe proposed impacts and reasons impacts cannot be avoided. Include a discussion (include graphics) on how impacts will be minimized; and

No impact will occur to wetland area

3. Describe, in general terms, how the natural flow regime will be affected by this development, and how any changes will affect wetlands on and off-site.

The Natural Flow of water should not be impacted at as we are not developing any of the wetland area and we will have very minimal development of the land butting up against the wetland area.

C. ALL DEVELOPMENT, AS DEFINED IN SECTION 380.04, FS, SHALL BE REVIEWED FOR CONSISTENCY WITH THE FOLLOWING OBJECTIVES:

1. MINIMIZE THE ADVERSE IMPACTS OF DEVELOPMENT ON RESOURCES OF THE FLORIDIAN AQUIFER, WETLANDS, AND FLOOD-DETENTION AREAS.

Applicant shall provide the following information:

a. Will the proposed development have any adverse impacts to the Floridian Aquifer, wetlands, or flood-detention areas? If yes, describe how the adverse impacts will be minimized, including data and analysis.

NO

b. An estimate, using best available (existing) data, of the depth to the Floridian Aquifer confining layer to surface topology. Provide the data used to make this estimate.

SFWMD

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1        National Geodetic Survey,   Retrieval Date = FEBRUARY   4, 2023
 DI0276 ***********************************************************************
 DI0276  DESIGNATION -  E 613
 DI0276  PID         -  DI0276
 DI0276  STATE/COUNTY-  FL/POLK
 DI0276  COUNTRY     -  US
 DI0276  USGS QUAD   -  POLK CITY (2018)
 DI0276
 DI0276                         *CURRENT SURVEY CONTROL
 DI0276  ______________________________________________________________________
 DI0276* NAD 83(1986) POSITION- 28 13 21.      (N) 081 49 15.      (W)    SCALED
 DI0276* NAVD 88 ORTHO HEIGHT -     39.669 (meters)       130.15  (feet) ADJUSTED
 DI0276  ______________________________________________________________________
 DI0276  GEOID HEIGHT    -        -26.969 (meters)                       GEOID18
 DI0276  DYNAMIC HEIGHT  -         39.610 (meters)       129.95  (feet) COMP
 DI0276  MODELED GRAVITY -    979,161.3   (mgal)                         NAVD 88
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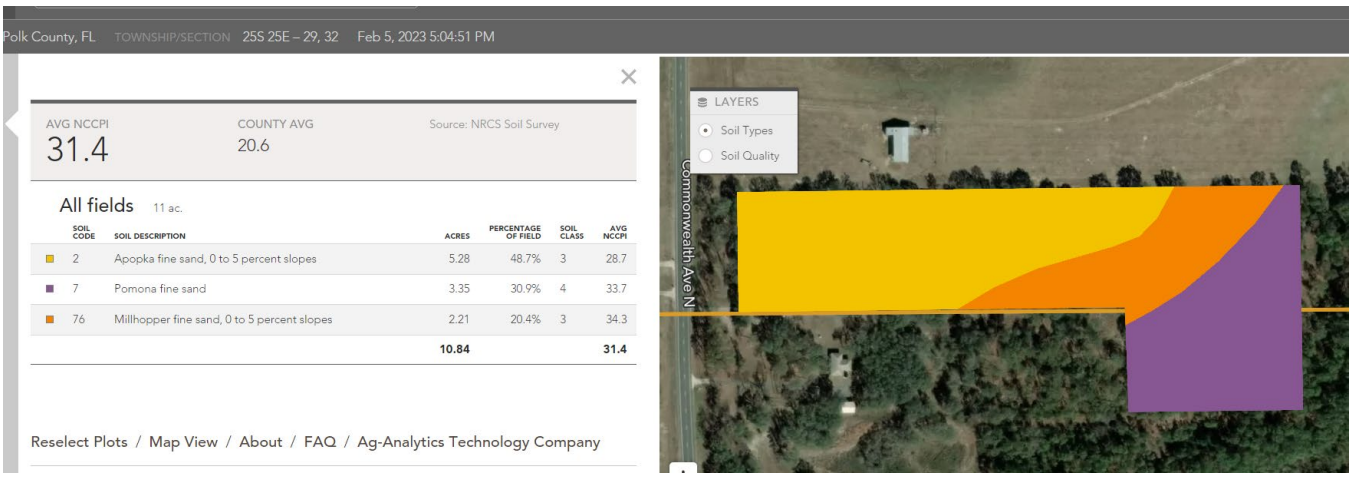
c. Any contaminants (biological or chemical) expected to be stored on the site should be listed, and proposed containment/treatment measures in case of spill or leakage should be described.

NONE

d. Describe, in general terms, the Best Management Practices (BMPs) that will be used to manage hydrological and/or biological resources.

N/A

e. Using best available (existing) data, provide a soil survey of the site.



2. PROTECT OR IMPROVE THE NORMAL QUANTITY, QUALITY, AND FLOW OF GROUND WATER AND SURFACE WATER WHICH ARE NECESSARY FOR THE PROTECTION OF RESOURCES OF STATE AND REGIONAL CONCERN.

Applicant will provide the following information:

Level 3 or Level 4 Review

a. State which surface and ground water standards will be met are applicable, and how they will be met.

b. Whether water from the site (both surface and groundwater) is necessary for the protection of resources of state and regional concern. Identify those resources and describe, in general terms, how development of the site will impact those resources.

Development is minimal and will have No impact.

c. How impacts to resources of state or regional concern will be minimized.

No impact will occur.

Growth Management Department
Land Development Division

3. PROTECT OR IMPROVE THE WATER AVAILABLE FOR AQUIFER RECHARGE.

Applicant shall provide the following information:

a. A topographic site plan that shows the location of recharge areas based on water management district and SCS data.

Impact will be very minimal and recharge areas will be unnecessary.

4. PROTECT OR IMPROVE THE FUNCTIONS OF THE GREEN SWAMP POTENTIOMETRIC HIGH OF THE FLORIDIAN AQUIFER.

Applicant shall provide the following information:

a. Estimate of the amount of water that will be withdrawn and how this withdrawal may affect the potentiometric high. Also the time frame for water withdrawal - daily, weekly, monthly.

Daily: 431 gallons
Weekly: 3,017 gallons
Monthly: 12,068 gallons
Yearly: 156,884 gallons
This amount of water usage will not have any measurable effect.

5. PROTECT OR IMPROVE THE NORMAL SUPPLY OF GROUND AND SURFACE WATER.**

The development on this site will have minimal or no impact on ground or surface water. The amount of usage of water is not that much more then a normal residential property. All water will be obtained though a well currently on the property.

Applicant shall provide the following information:

a. An estimate of the normal supply of ground and surface water would be for the site. Provide data source or assumptions made to reach this estimate.

b. A description of how development of the site is expected to impact the normal supply of surface and ground water.

c. A description of the method or techniques which are proposed to maintain the normal water supply.

d. Any plans to improve the normal water supply. Describe the proposed method(s)/techniques.

Installation of Low Flow appliances and equpiment

e. The local standards for surface water and groundwater quantity and quality that will be met.

A well filter is installed on the well.

f. A description of any additional methods that are to be used to protect or improve water supply not mentioned in the statements above.

6. PREVENT FURTHER SALT-WATER INTRUSION INTO THE FLORIDIAN AQUIFER.

Applicant shall provide the following information:

Is a SWFWMD, SJWMD, or SFWMD consumptive use permit required? If yes, the applicant shall notify Development Engineering Services Division within 5 working days of when the application was submitted.

7. PROTECT OR IMPROVE EXISTING GROUND AND SURFACE WATER QUALITY.

Applicant shall provide the following information:

a. Local, regional, and state standards for surface water and groundwater that are applicable and how they will be met.

No Development will be done that will affect the surface water and ground water therefore both surface and ground water will remain in its natural state.

b. Identify the methods and techniques proposed to be used to protect surface and ground water quality.

There will be Nothing that will affect the surface or ground water supply and there fore no action will be necessary.

8. PROTECT OR IMPROVE THE WATER-RETENTION CAPABILITIES OF WETLANDS.**

Applicant shall provide the following information:

a. The BMPs which will be used to protect the water-retention capabilities of wetlands found on-site.

Not Necessary

b. Any plans to improve the water retention capabilities of wetlands found on-site. If yes, describe in general terms.

Not Necessary

c. Identify any wetlands found off-site whose water-retention capabilities are dependent upon the current water drainage patterns found on-site.

See Below

d. How development of the site impact the water-retention capabilities of wetlands found off-site.

There will be no impact of any off-site wetlands as the wetlands on the proposed property will remain in its natural state.

9. PROTECT OR IMPROVE THE BIOLOGICAL-FILTERING CAPABILITIES OF WETLANDS.**

Applicant shall provide the following information:

NO Changes or development will occur within the wetlands and therefor will remain in their current and natural state.

a. The BMPs which the applicant will employ to meet in protecting the existing biological-filtering capabilities of wetlands.

b. Any plans to improve the biological filtering capabilities of wetlands found on site. If yes, describe in general terms how the improvements will be made.

10. PROTECT OR IMPROVE THE NATURAL FLOW REGIME OF DRAINAGE BASINS.
Applicant shall provide the following information:

NO Changes or development will occur within the wetlands and therefor will remain in their current and natural state.

A drainage basin map showing the natural flow and the flow during construction and after construction of the project.

11. PROTECT OR IMPROVE THE DESIGN CAPACITY OF FLOOD DETENTION AREAS AND THE WATER-MANAGEMENT OBJECTIVES OF THESE AREAS THROUGH THE MAINTENANCE OF HYDROLOGIC CHARACTERISTICS OF DRAINAGE BASINS.
Provide a description of the stormwater quantity and quality practices to be adhered to by the developer, and the approximate location and size of areas for detention or retention of water.

There will only be 2 30X60 ft pole barns installed and exterior game fence. There will be no disruption to the natural flow of stoemwater quality or quantity and therefore it will not be necessary to install anything for the detention or retention of water.