US Army Corps of Engineers

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): February 6, 2019

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SAJ-2018-02796-RGH (SPENCER FARMS, INC / SIMMONS LOOP ROAD EXTENSION / HILLSBOROUGH)

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:FL County/parish/borough: Hillsborough City: Ruskin
Center coordinates of site (lat/long in degree decimal format): Lat. 27.777657° **N**, Long. -82.348227° **W**.
Universal Transverse Mercator:
Name of nearest waterbody: Little Bullfrog Creek
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Tampa Bay
Name of watershed or Hydrologic Unit Code (HUC): Bullfrog Creek - 031002060401

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: February 6, 2019
☒ Field Determination. Date(s): November, 27, 2018

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **are and are not** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
   - ☐ TNWs, including territorial seas
   - ☐ Wetlands adjacent to TNWs
   - ☒ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
   - ☐ Non-RPWs that flow directly or indirectly into TNWs
   - ☒ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
   - ☒ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
   - ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
   - ☐ Impoundments of jurisdictional waters
   - ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
   Non-wetland waters: linear feet: width (ft) and/or 1.258 acres.
   Wetlands: 2.445 acres.

   c. **Limits (boundaries) of jurisdiction** based on: **1987 Delineation Manual**
   Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
   Explain: **Ditches 1-3 are agricultural ditches that drain only uplands and Wetland F is also a remnant agricultural ditch that is only draining uplands.**

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[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:
Watershed size: 25,748 **acres**
Drainage area: 30 **square miles**
Average annual rainfall: 56 inches
Average annual snowfall: 0 inches

(ii) Physical Characteristics:
(a) Relationship with TNW:
☒ Tributary flows directly into TNW.
☒ Tributary flows through **2** tributaries before entering TNW.

Project waters are **5-10** river miles from TNW.
Project waters are **1 (or less)** river miles from RPW.
Project waters are **5-10** aerial (straight) miles from TNW.
Project waters are **1 (or less)** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: Little Bullfrog Creek flows west onsite, then north, then west to Tampa Bay..
Tributary stream order, if known: .

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[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☒ Natural
☐ Artificial (man-made). Explain: .
☒ Manipulated (man-altered). Explain: Portions are channelized.

Tributary properties with respect to top of bank (estimate):
Average width: 40 feet
Average depth: 10 feet
Average side slopes: **3:1**.

Primary tributary substrate composition (check all that apply):

☒ Silts	☒ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☐ Vegetation. Type/% cover:	
☐ Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: Banks slough due to higher flows.
Tributary geometry: **Meandering**
Tributary gradient (approximate average slope): 2 %

(c) Flow:
Tributary provides for: **Seasonal flow**
Estimate average number of flow events in review area/year: **20 (or greater)**
Describe flow regime: Some base flow and higher rates in the summer or after larger rainfall events..
Other information on duration and volume: Fairly consistent base flow.

Surface flow is: **Discrete and confined.** Characteristics: In the channel except for flooding events..

Subsurface flow: **Unknown**. Explain findings: Subsurface flow is expected to occur· given the interconnectedness of the tributaries and the wetlands, as well as the historical effect the excavated ditches have had on successfully draining many of the wetlands in the review area; however, no tests were performed to confirm.
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☒ Bed and banks
☐ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank	☐ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☐ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☐ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: Some film noted on water smface. The watershed supported agricultural practices including fanning and livestock operations, however much of that landuse has been converted into residential areas with stonnwater

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

management ponds that discharge to the creek. The creek, which receives flows from the site and flows into the Hillsborough River, is considered an impaired waterbody for Bacteria and other microbes, Low Oxygen, and Nitrogen and Phosphorus according to the EPA's 2002 assessment.

(iv) Biological Characteristics. Channel supports (check all that apply):

☐ Riparian corridor. Characteristics (type, average width): .
☒ Wetland fringe. Characteristics: Forested and herbacious.
☒ Habitat for:
☒ Federally Listed species. Explain findings: Potential wood stork foraging habitat.
☒ Fish/spawn areas. Explain findings: Could provide fish spawn areas for small fish (i.e. mosquitofish, bluegill).
☐ Other environmentally-sensitive species. Explain findings: .
☒ Aquatic/wildlife diversity. Explain findings: Small fish, frogs, snakes, turtles, and aquatic insects.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size:0.16 acres

Wetland type. Explain:The site supports both forested wetland hardwoods and emergent wetlands.

Wetland quality. Explain:Good overall. However exotic vegetation encroachment is beginning. Hydrology has been altered due to ditching.

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Intermittent flow**. Explain: Field observations of Wetland D connection confirm that the feature can flow at least seasonally and is relatively permanent. Wetland D is adjacent not directly abuting wetland to RPWs and is expected to flow seasonally, with steady flow during the wet season and increased flow after storm events; and reduced flow during the dry season.

Surface flow is**: Discrete and confined**

Characteristics: Wetlands interact with RPW via surface water (sheetflow) and subswface interactions.

Subsurface flow: **Unknown**. Explain findings: Subsurface flow is expected to occur· given the interconnectedness of the tributaries and the wetlands, as well as the historical effect the excavated ditches have had on successfully draining many of the wetlands in the review area; however, no tests were performed to confirm.

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

☐ Directly abutting
☒ Not directly abutting
☒ Discrete wetland hydrologic connection. Explain: Connection via ditch/swale connection to offsite wetlands which flow to RPW.
☒ Ecological connection. Explain: Wetland is part of chain of several wetlands that are related to RPW.
☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **10-15** river miles from TNW.
Project waters are **1 (or less)** aerial (straight) miles from TNW.
Flow is from: **Wetland to navigable waters.**
Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Generally clear and tannic.

Identify specific pollutants, if known: Cattle waste, agricultural uses and subdivisions nearby..

(iii) Biological Characteristics. Wetland supports (check all that apply):

☒ Riparian buffer. Characteristics (type, average width):Hardwoods, roughly 100 ft.
☒ Vegetation type/percent cover. Explain:Hardwoods with understory/ 85%.
☒ Habitat for:
☒ Federally Listed species. Explain findings:Potential wood stork foraging habitat.
☒ Fish/spawn areas. Explain findings:Wetlands with a direct swface connection to the non-RPW may provide fish/spawn habitat in wetter months.
☐ Other environmentally-sensitive species. Explain findings: .
☒ Aquatic/wildlife diversity. Explain findings:Small fish, frogs, snakes, turtles, and aquatic insects.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **8**

Approximately (50) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
Wetland A Y	0.078	Wetland E Y	0.153
Wetland B Y	1.075		
Wetland C Y	0.979		
Wetland D N	0.16		

Summarize overall biological, chemical and physical functions being performed: Storage of flood waters; reduction of downstream peak discharges and volumes; recharge of aquifers; maintenance of seasonal/baseflows; maintenance of groundwater supplies; removal of sediments and nutrients; provision of breeding grounds and wildlife habitat (e.g. feeding/foraging, nesting, spawning, rearing of young); supports diverse community of benthic invertebrates, a major food source for vertebrates.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The Eleventh Circuit has concluded that the Kennedy standard is the sole method ofdeterminingCWA jurisdiction in that Circuit (United States v. McWane, Inc., et al., 505 F.3d 1208 [11th Cir. 2007]); therefore,unless the aquatic resources are traditional navigable waters or wetlands adjacent to traditional navigable waters, the Corps needs toconduct asignificant nexus determination on all other waters in order to determine jurisdiction under the CWA. The Corps hasdeterminedthat for this review, the subject tributaries (RPWs) and adjacent wetlands have more than an insubstantial or speculativeeffect onthe physical, chemical, and biological integrity of the downstream TNW, as described below.
3.
4. The following represents the significant nexus finding for the RPWs:
5. PHYSICAL: The tributaries receive rainfall and stormwater runoff from a large area and transports this water and sediment load downstream. Flows from the tributaries affect the duration, frequency and volume of flow into the Tampa Bay.
6. CHEMICAL: The tributaries have the capacity to transfer nutrients and organic carbon that supports downstream food webs, as well as transfer potential pollutants to the downstream TNW, which could negatively affect aquatic resources and contribute toalgal blooms.
7. BIOLOGICAL: The tributaries are important biologically as they provide habitat for reptiles, amphibians, fish, birds and otheraquatic species, including species which move between aquatic and upland environments during their life cycles. The biological functions provided by the tributaries addressed in this JD are expected to be exported downstream to, and provide
8. benefits to, the Tampa Bay (TNW).
9. The following represents the significant nexus finding for the wetlands adjacent to the RPWs:

10. PHYSICAL: The wetlands perform important flow maintenance functions including storage of flood waters and maintenance of groundwater supplies, and therefore directly affect the duration, frequency and volume of flow in the tributaries and tlie downstream TNW. The wetlands provide a means of slowing water's velocity and reducing the amount of sediments entering downstream waters.
11. CHEMICAL: The wetlands improve water quality by removing sediments, nutrients and other pollutants that would otherwise reach the downstream TNW. The wetlands assimilate mnoff from adjacent land uses prior to discharge to the TNW, reducing negative effects to downstream aquatic resources such as nutrient enrichment and algal blooms.
12. BIOLOGICAL: The wetlands are important biologically since a substantial amount of the historical wetland coverage in the watershed has been altered for residential and commercial development, major roadway and agriculture. They provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle, and provide habitat for a variety of species. The subject wetlands provide oases in an altered landscape and resting and wading habitats for birds. The biological functions provided by the wetlands discussed in this JD are expected to be expo1ted downstream to, andprovide benefits to, the Tampa Bay.

13. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☒ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Little Bullfrog Creek has consistant flowing water, with sediment sorting, (run, riffle, pool, glide) transistions, and observable fish in stream.
   - ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

   Provide estimates for jurisdictional waters in the review area (check all that apply):
   - ☐ Tributary waters: linear feet width (ft).
   - ☐ Other non-wetland waters: acres.
     Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
   - ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

   Provide estimates for jurisdictional waters within the review area (check all that apply):
   - ☐ Tributary waters: linear feet width (ft).
   - ☐ Other non-wetland waters: acres.
     Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
   - ☒ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
     - ☒ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **Wetland A, B, C, and E are diretly abutting Little Bullfrog Creek. Flow route and observable flow can be seen via historical aerials and was confirmed via site visit.**
     - ☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

   Provide acreage estimates for jurisdictional wetlands in the review area: **2.285**acres.

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[8]See Footnote # 3.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
   ☒ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

   Provide acreage estimates for jurisdictional wetlands in the review area: **0.16** acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
   ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

   Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.**[9]
   As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
   ☐ Demonstrate that impoundment was created from "waters of the U.S.," or
   ☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
   ☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]

☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
   Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
   ☐ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
☒ Other: (explain, if not covered above): **Agricultural Ditches.**

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

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[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] **Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.***

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:Clearview Land Design.
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  ☒ Office concurs with data sheets/delineation report.
  ☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: Bullfrog Creek - 031002060401.
  ☒ USGS NHD data.
  ☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name:1:24,000; Riverview, FL.
☒ USDA Natural Resources Conservation Service Soil Survey. Citation:Florida Soils Map digital data from the Natural Resources Conservation Service. Date (February 6, 2019). Web Soil Survey website. U.S. Department of Agriculture, Natural Resources Conservation Service, Washington, D.C.
☒ National wetlands inventory map(s). Cite name:Wetland digital data from U. S. Fish and Wildlife Service. Date (February 6, 2019). National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
☐ State/Local wetland inventory map(s): .
☒ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): Google 1994-2018.
  or ☐ Other (Name & Date): .
☐ Previous determination(s). File no. and date of response letter: .
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☐ Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: See Narrative.

Exhibit 1: Description of Jurisdictional and Non-Jurisdictional Waters

1. Jurisdictional Wetlands and Waters: The Corps utilized the guidance provided in the *Clean Water Act Jurisdiction Following the* U.S. *Supreme Court's Decision in Rapanos v. United* Sates & *Carabell v. United States* (Guidance) and 33 CFR 328.3(a) to identify which waters in the review area are properly subject to Corps jurisdiction. The Corps found that there are and are not jurisdictional waters within the review area.

A. Little Bullfrog Creek: RPW that flows directly to a TNW

The Corps determined that Little Bullfrog Creek is a relatively permanent water that flows directly to a TNW. The Guidance states that the Corps should exert jurisdiction over non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally. The Corps determined that Little Bullfrog Creek satisfies this standard, and is a jurisdictional RPW. First, the Corps confirmed via aerial imagery and NHD flow line data that Little Bullfrog Creek flows directly to Tampa Bay:

Google earth image dated 3/15/2018 with NHD flow line overlay. The review area is located in the northeast corner of the photo (Yellow Polygon). Little Bullfrog Creek bisects the boundary of the review area. Little Bullfrog Creek (Red Line) flows in a westerly direction past the review area, flowing into Bullfrog Creek until it discharges into Tampa Bay, to the west of the review area.

Second, the Corps examined data from USGS staff gauge 02300700 (Bullfrog Creek near Wimauma, FL), which is located within Bullfrog Creek approximately 1.16 miles downstream of the review area at the following coordinates: Latitude: 27.791667° Longitude: -82.352222°.

B. Wetland A, B, C, D, and E: Wetland directly abutting or adjacent to an RPW

According to the Guidance alone, the Corps should exert jurisdiction over wetlands directly abutting wetlands that have a continuous surface connection to such tributaries. Wetland A, B, C, D, and E exhibits a continuous surface connection to Little Bullfrog Creek. In addition, pursuant to specific requirements of case law which apply to the 11th Circuit Court of Appeals jurisdiction, the Corps determined that Wetland A, B, C, D, and E would satisfy the significant nexus standard. Wetland A, B, C, D, and E could transport nutrients, organic carbon to the downstream TNW via Little Bullfrog Creek which exhibits consistent seasonal flow based on the gauge data. Aquatic species could easily forage in both Wetland A, B, C, D, and E and Little Bullfrog Creek due to the direct surface connection between the two waters. Also, Wetland A, B, C, D, and E could entrain pollutants that would otherwise flow directly to the TNW via Little Bullfrog Creek. Thus, Wetland A, B, C, and E has a biological, chemical, and physical effect on the TNW that is not speculative or insubstantial.

2. Non-Jurisdictional Waters and Wetlands

The Corps determined that there are several waters and wetlands within the review area that are non-jurisdictional for the reasons discussed below.

Exhibit 1: Description of Jurisdictional and Non-Jurisdictional Waters

A. Ditch 1, 2, 3, and Wetland F: Preamble Waters

The review area contains 4 upland dug features that the Corps determined are not considered Waters of the U.S. Ditch 1, 2, 3, and Wetland F are all upland dug features that do not drain wetlands.

Project Name (SAJ-2018-02796)

WOUS OSW IMPACTS

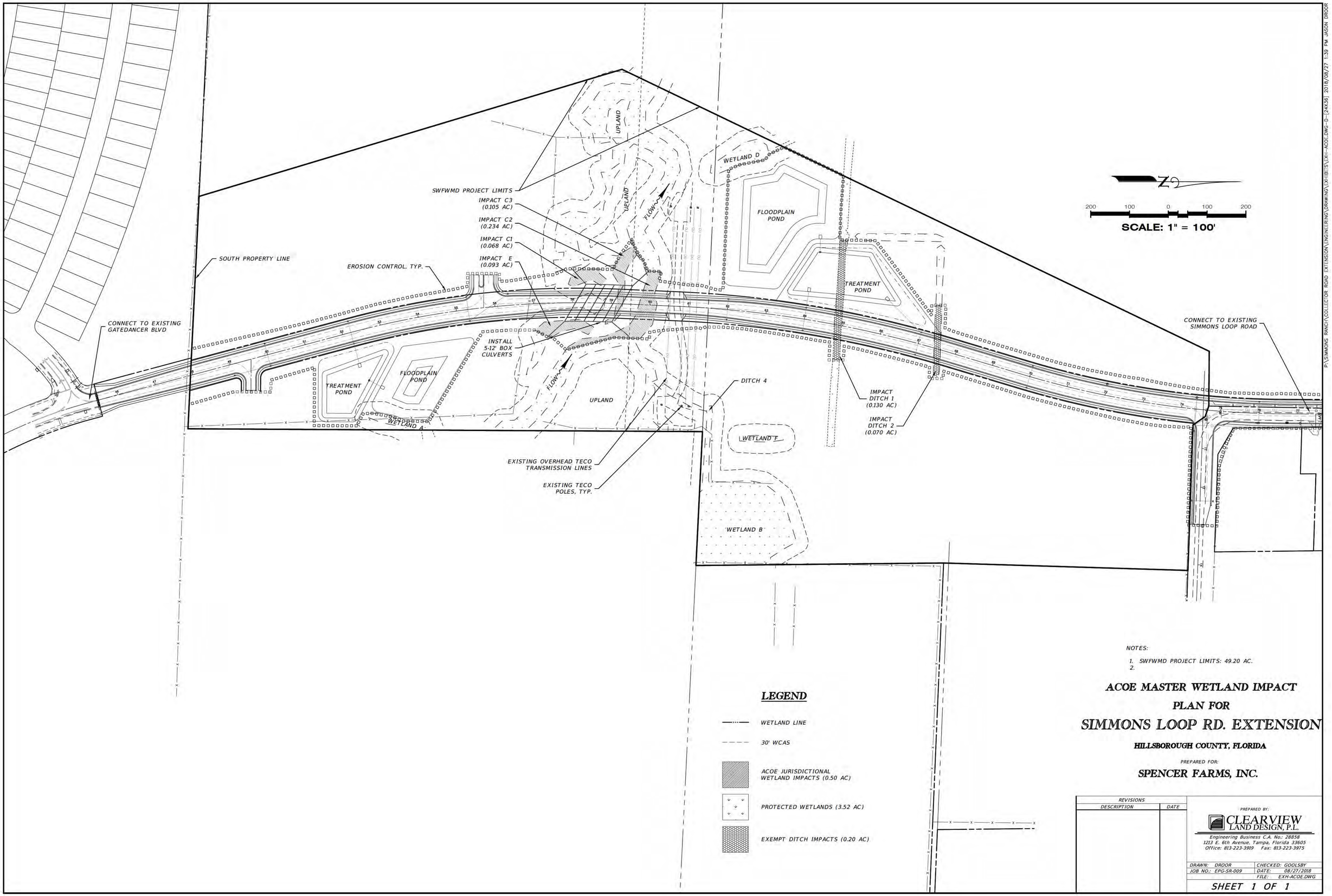
Impact Activity Area (AA) #	Wetland Acres (AC)	Impact Acres (AC)	Impact Area (SF)	Cut Volume (CYD)	Fill Volume (CYD)	Status	Mitigation	Credits	Watershed
Ditch 1	0.296					Preamble Water			Bullfrog Creek - 031002060401
Ditch 2	0.129					Preamble Water			Bullfrog Creek - 031002060401
Ditch 3	0.095					Preamble Water			Bullfrog Creek - 031002060401
Ditch 4	1.258					RPW			Bullfrog Creek - 031002060401
Creek C	1.148					RPW			Bullfrog Creek - 031002060401
TOTAL	**2.926**	**0**	**0**	**0**	**0**				

WOTUS

Non-WOTUS

WOUS WETLAND IMPACTS

Impact Activity Area (AA) #	Wetland Acres (AC)	Impact Acres (AC)	Impact Area (SF)	Cut Volume (CYD)	Fill Volume (CYD)	Status	Mitigation	Credits	Watershed
Wetland A	0.078					Wetland directly abutting an RPW			Bullfrog Creek - 031002060401
Wetland B	1.075					Wetland directly abutting an RPW			Bullfrog Creek - 031002060401
Wetland C	0.979					Wetland directly abutting an RPW			Bullfrog Creek - 031002060401
Wetland D	0.16					Wetland adjacent but not directly abutting an RPW			Bullfrog Creek - 031002060401
Wetland E	0.153					Wetland directly abutting an RPW			Bullfrog Creek - 031002060401
Wetland F	0.037					Preamble Water			Bullfrog Creek - 031002060401
Total	**2.482**	**0**	**0**	**0**	**0**			0	



NOTES:

1. SWFWMD PROJECT LIMITS: 49.20 AC.
2.

ACOE MASTER WETLAND IMPACT PLAN FOR SIMMONS LOOP RD. EXTENSION

HILLSBOROUGH COUNTY, FLORIDA

PREPARED FOR:

SPENCER FARMS, INC.

REVISIONS	
DESCRIPTION	DATE

PREPARED BY:

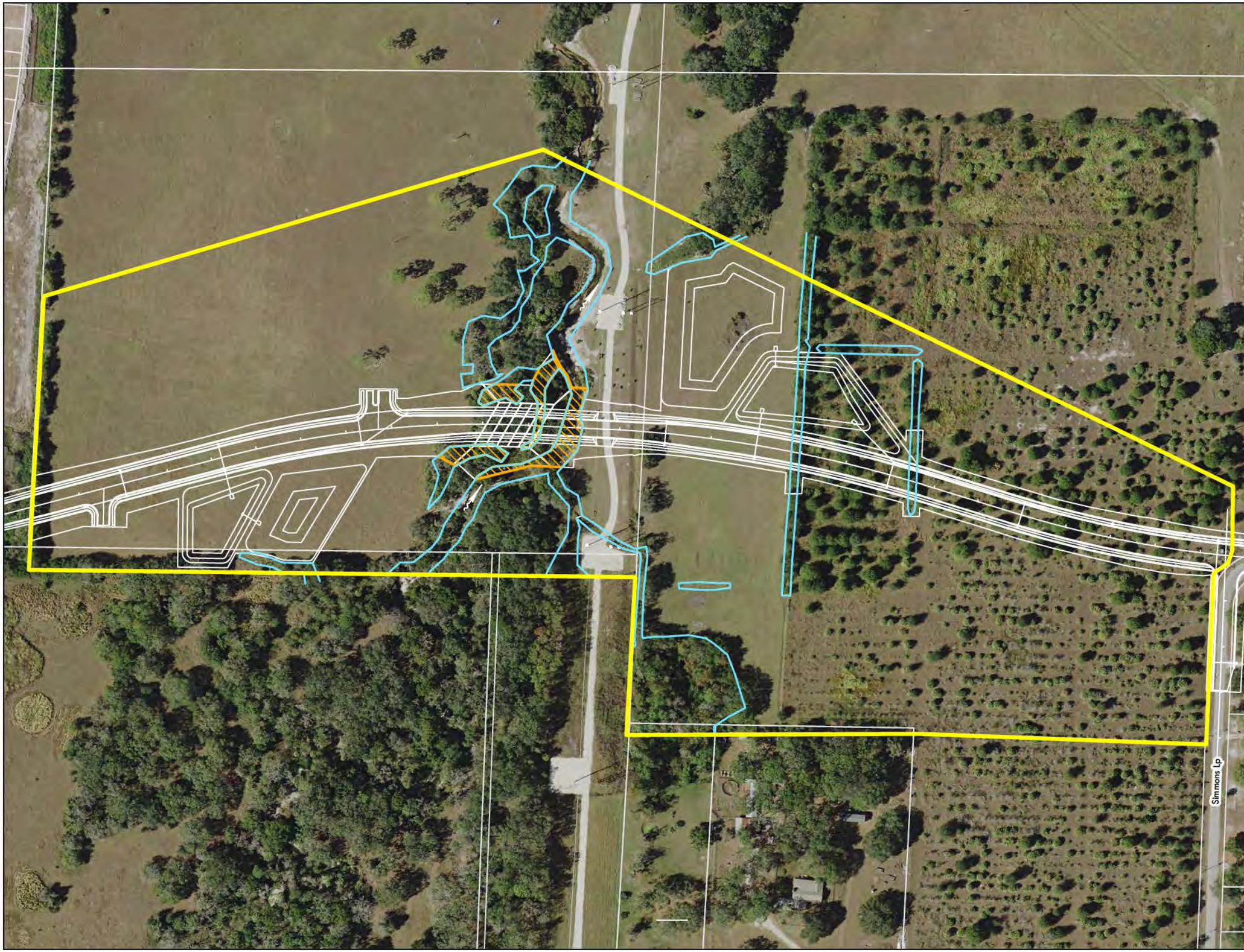
CLEARVIEW LAND DESIGN, P.L.

Engineering Business C.A. No.: 28858
1213 E. 6th Avenue, Tampa, Florida 33605
Office: 813-223-3919 Fax: 813-223-3975

DRAWN: DROOR	CHECKED: GOOLSBY
JOB NO.: EPG-SR-009	DATE: 08/27/2018
	FILE: EXH-ACOE.DWG

SHEET 1 OF 1

P:\SIMMONS RANCH\COLLECTOR ROAD EXTENSION\ENGINEERING\DRAWING\EXHIBITS\EXH-ACOE.DWG-D-[24X36] 2018/08/27 1:39 PM JASON DROOR



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1213 E. 6th Avenue Tampa, Florida 33605
(813) 223-3919

Legend

- Review Limits
- Wetland Survey Line
- Wetland Impacts
- Parcel Boundary

Vicinity Map

S: 18 / 19 T: 31 R: 20

Notes:

Lakewood Ranch, or Hillsborough County make no warranty,representation or guaranty as to the content, sequence, accuracy, timeliness, or completeness of any of the geodata information provided herein. Aerial: SWFWMD, 2017

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

W S N E

1 inch = 200 feet

0 200 400 Feet

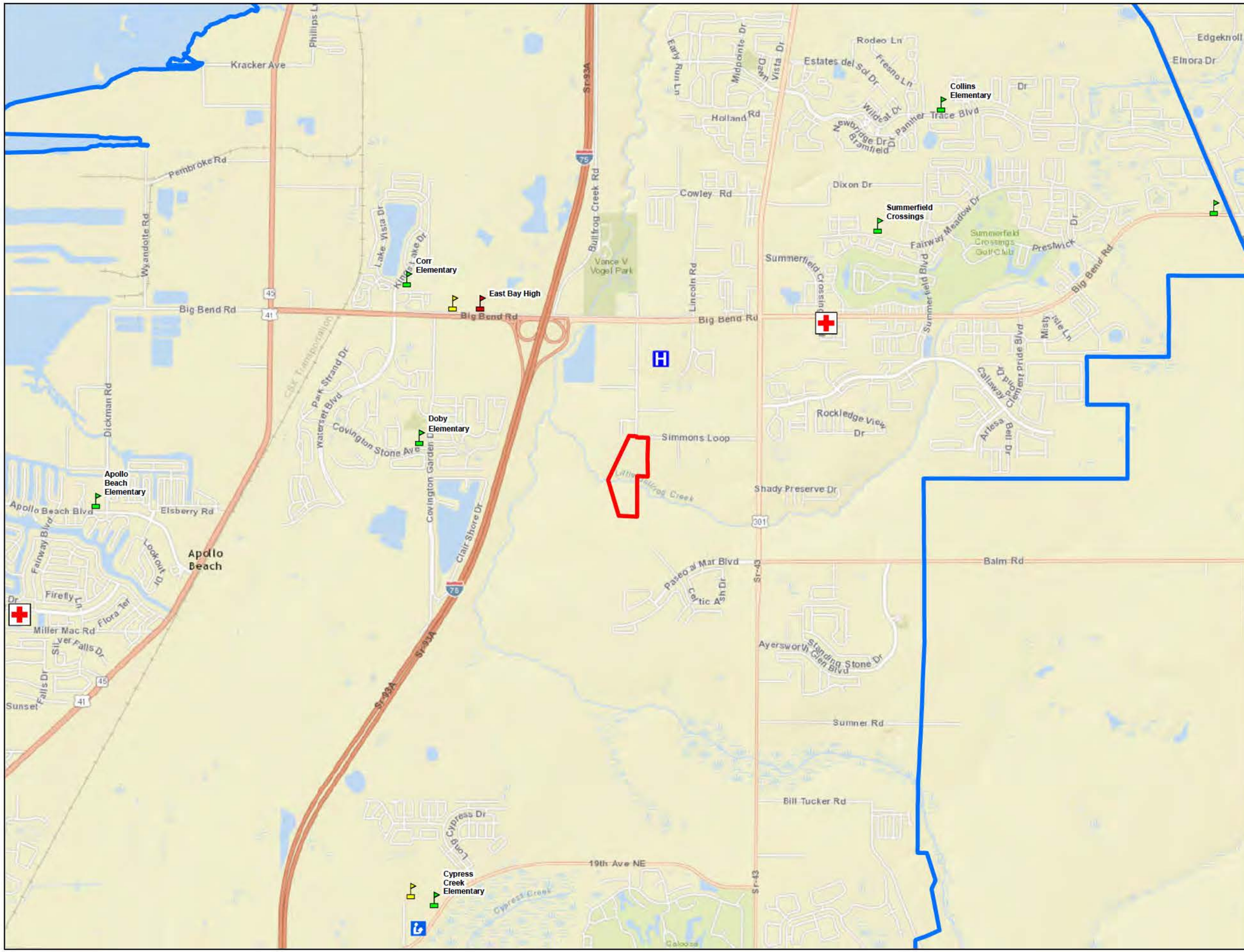
Figure: Roadway Aerial Site Plan Overlay

Project: Simmons Loop Road Extension

Hillsborough County

Filename: SR_RoadwayAerial_20180829_11x17_wcs

Map Date:	Map Prepared By:
8/29/2018	WCS



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(813) 223-3919

Legend

- Review Limits
- Urban Service Boundary
- Fire Station
- Hospitals
- Library

School Locations

- Elementary School
- Middle School
- High School

Vicinity Map

S: 18 T: 31 R: 20

Notes:

Clearview Land Design, or Hillsborough County make no warranty, representation or guaranty as to the content, sequence, accuracy, timeliness, or completeness of any of the geodata information provided herein.

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

1 inch = 3,000 feet

0 3,000 6,000 Feet

Figure: Vicinity Map

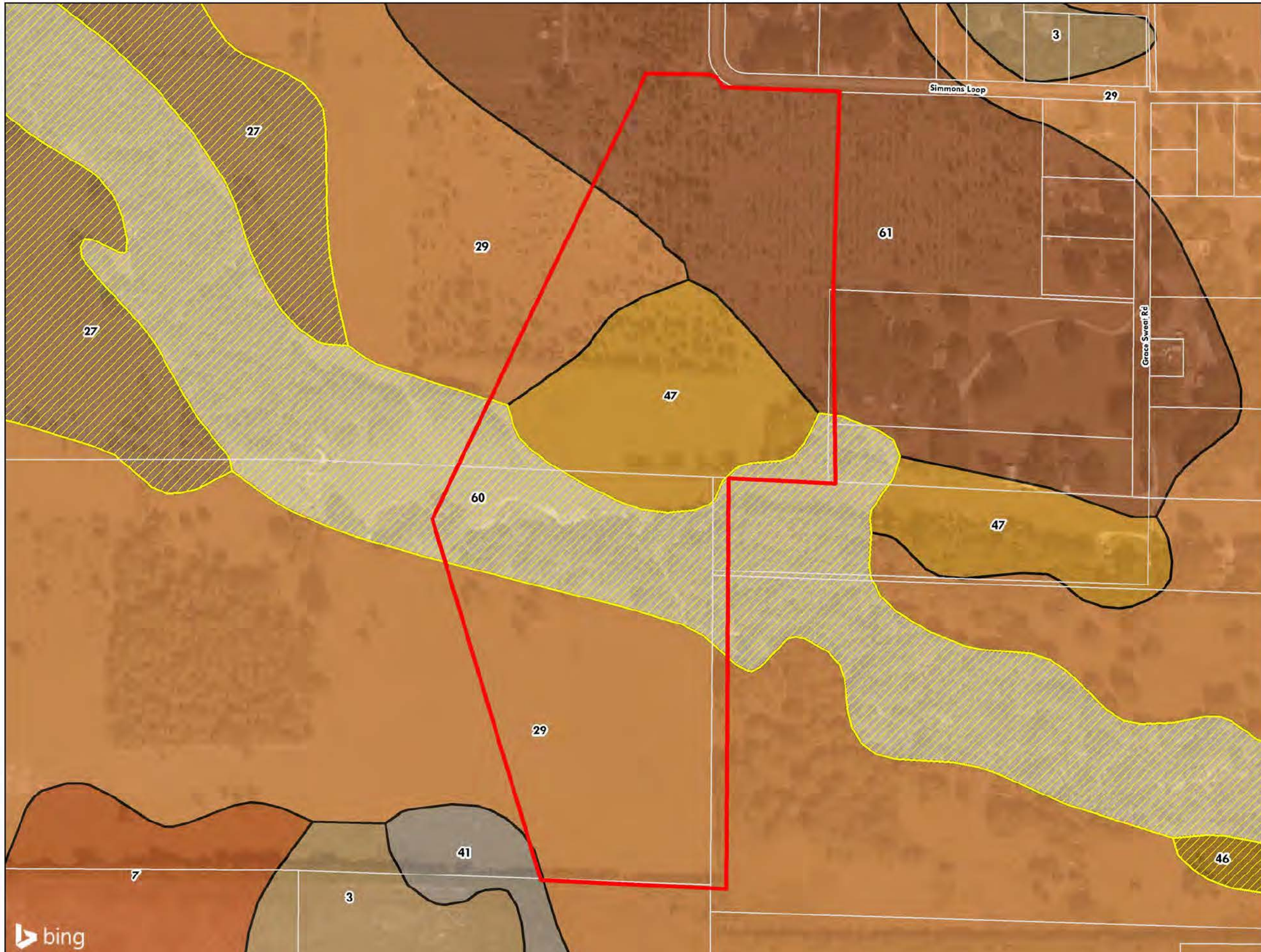
Project: Simmons Ranch

Hillsborough County

Filename: SR_Vicinity_20170713_11x17_wcs

Map Date: 7/13/2017

Map Prepared By: Cory Swales



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(813) 223-3919

Legend

- Review Limits
- Parcel Boundary
- Hydric Soils

NRCS SSURGO Soils

- 3, ARCHBOLD
- 7, CANDLER
- 27, MALABAR
- 29, MYAKKA
- 41, POMELLO
- 46, ST. JOHNS
- 47, SEFFNER
- 60, WINDER
- 61, ZOLFO

Vicinity Map

S: 18 T: 31 R: 20

Notes:

Clearview Land Design, or NRCS make no warranty, representation or guaranty as to the content, sequence, accuracy, timeliness, or completeness of any of the geodata information provided herein.
Aerial: Bing, 2015

Service Layer Credits: Image courtesy of USGS Earthstar Geographics SIO © 2017 Microsoft Corporation
Sources: Esri, HERE, DeLorme, USGS, Intermap,

1 inch = 300 feet

0 300 600 Feet

Figure: SSURGO General Soils

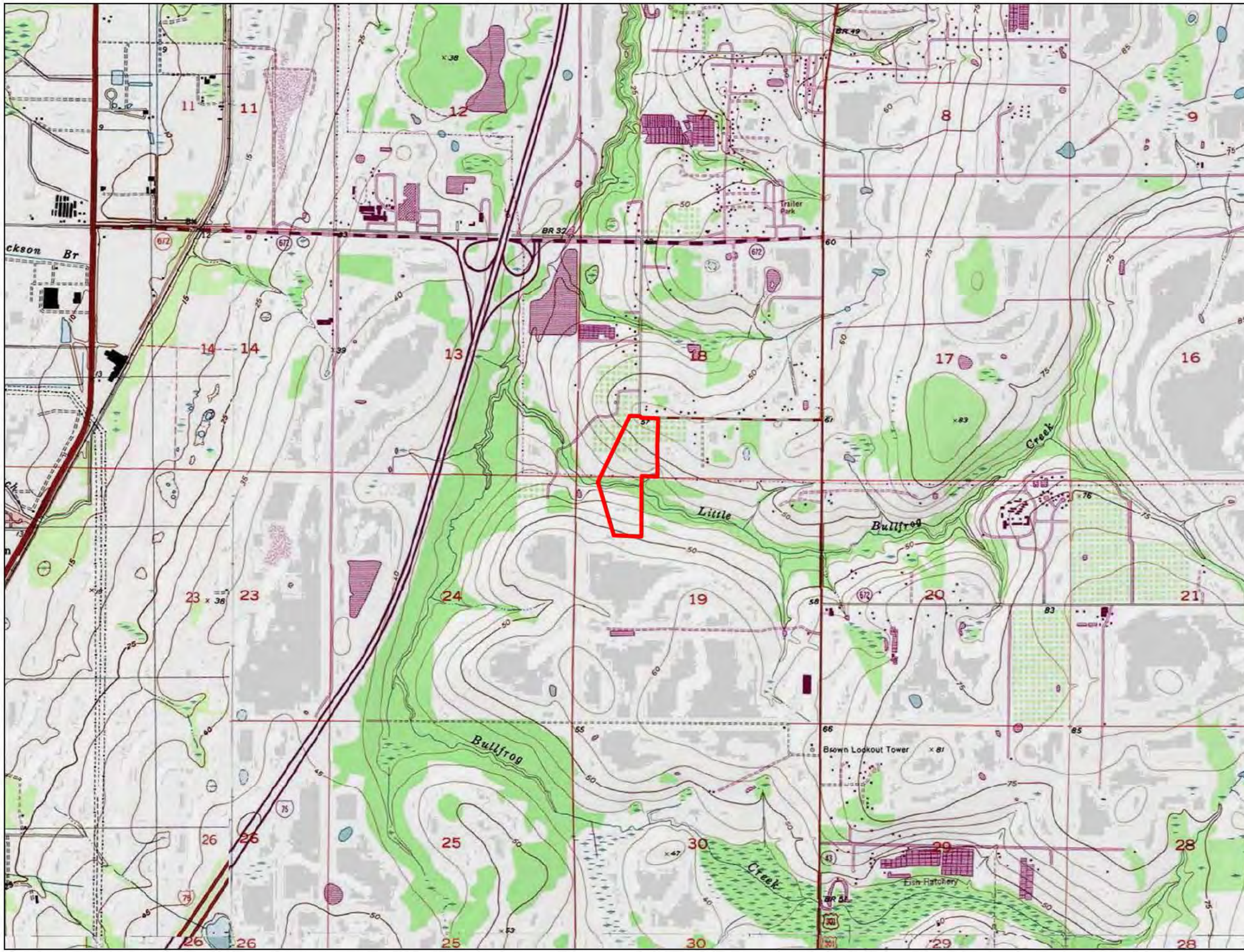
Project: Simmons Ranch

Hillsborough County

Filename:
SR_SSURGO_Soils_20170712_11x17_wcs

Map Date:
7/13/2017

Map Prepared By:
Cory Swales



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Legend

Review Limits

Vicinity Map

S: 18 T: 31 R: 20

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1 inch = 2,000 feet

0 2,000 4,000 Feet

Figure: USGS Quad

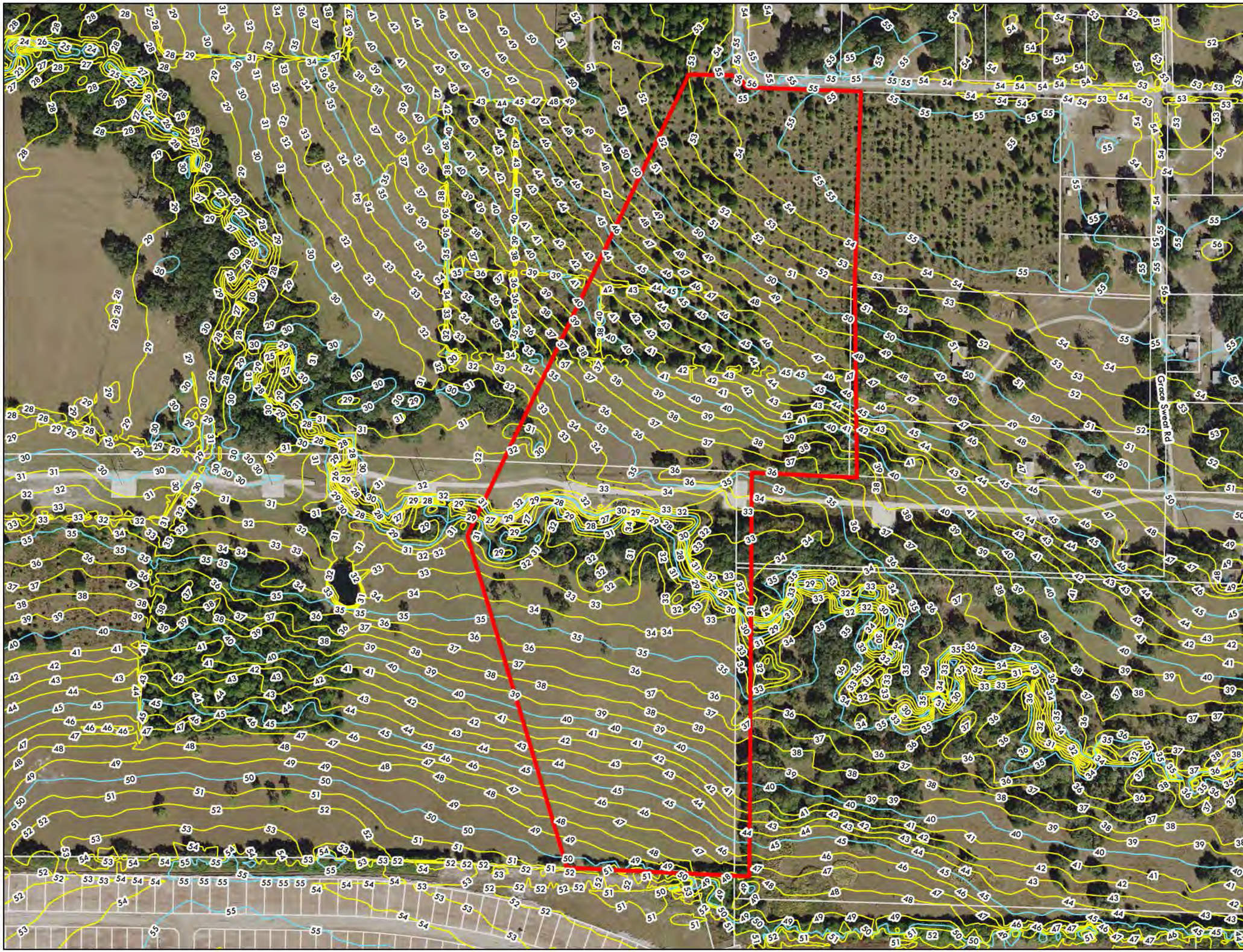
Project: Simmons Ranch

Hillsborough County

Filename:
SR_Quad_20170712_11x17_wcs

Map Date:
7/12/2017

Map Prepared By:
Cory Swales



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Legend

- Boundary Survey
- 1ft Contours
- 5ft Contours
- Parcel Boundary

Vicinity Map

S: 18 / 19 T: 31 R: 20

Notes:

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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

1 inch = 300 feet

0 300 600 Feet

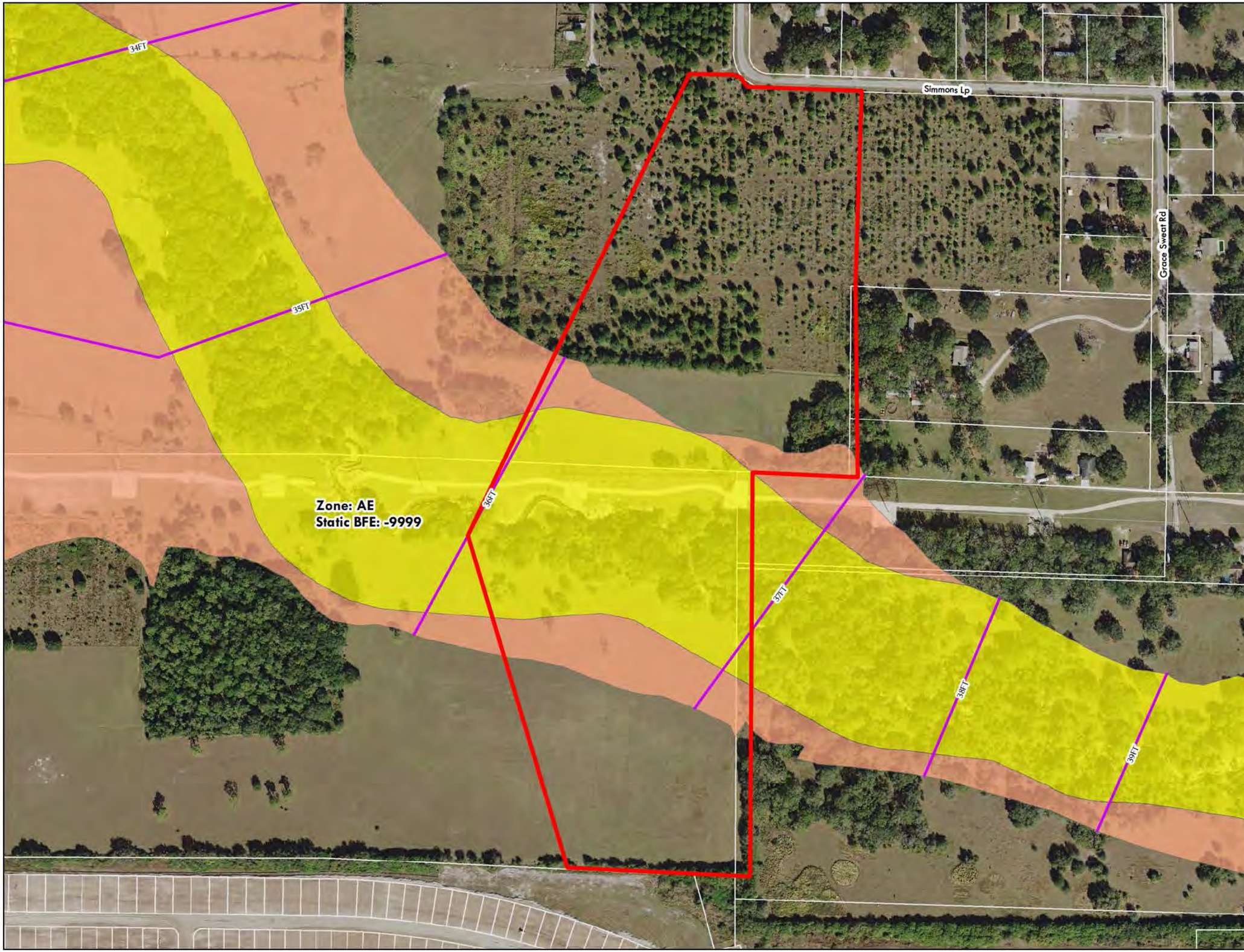
Figure: 1ft Contours

Project: Simmons Ranch

Hillsborough County

Filename:
SR_Topo_20180802_11x17_wcs

Map Date:	Map Prepared By:
8/2/2018	WCS



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(813) 223-3919

Legend

- Boundary Survey
- Static Base Flood Elevation (Ft)

FEMA 100 Year Flood Zone*

- Zone AE
- Zone AE, Floodway
- Parcel Boundary

Vicinity Map

S: 18 / 19 T: 31 R: 20

Notes:

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1 inch = 300 feet

0 300 600 Feet

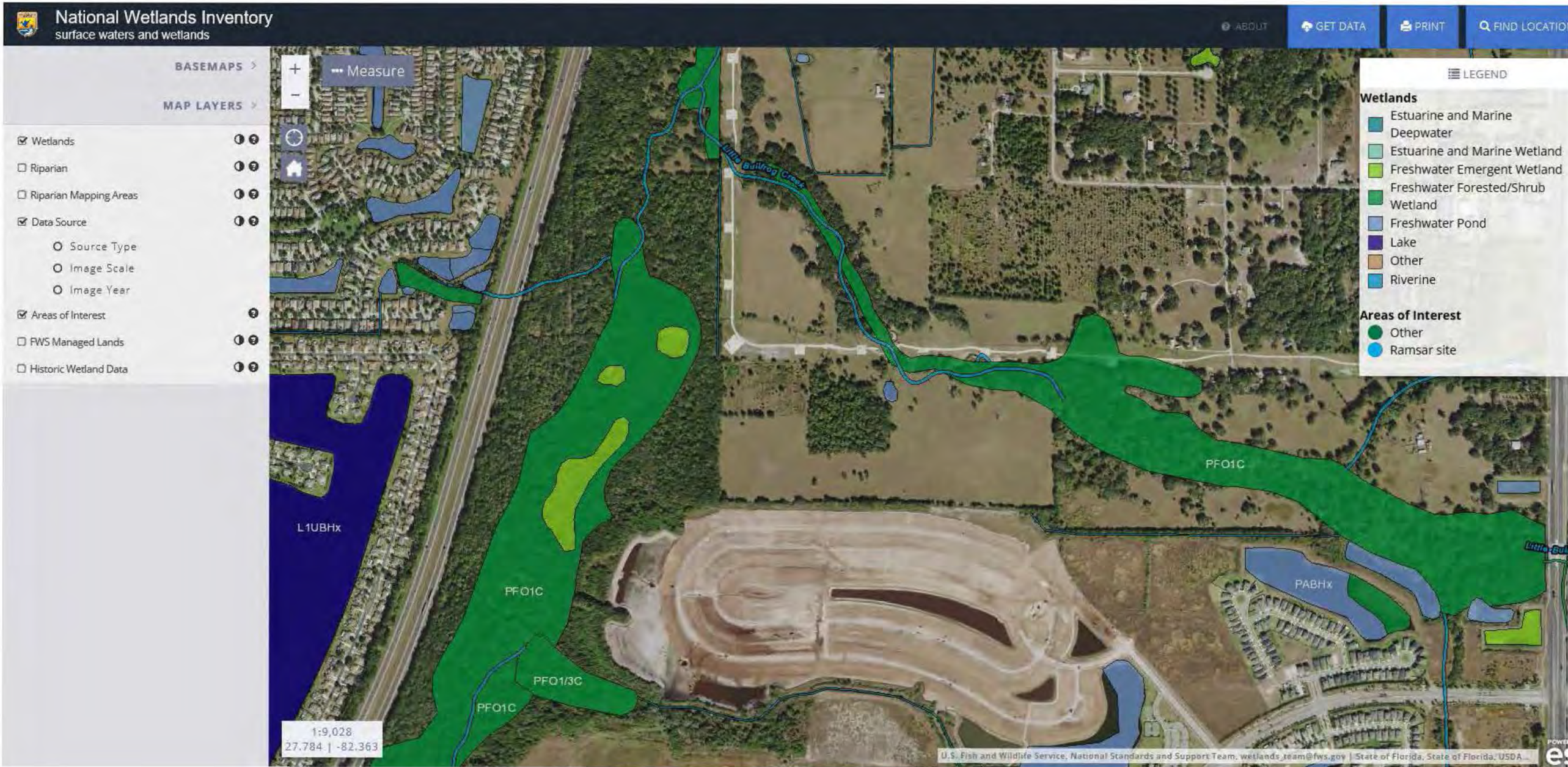
Figure: FEMA 100yr Floodplain

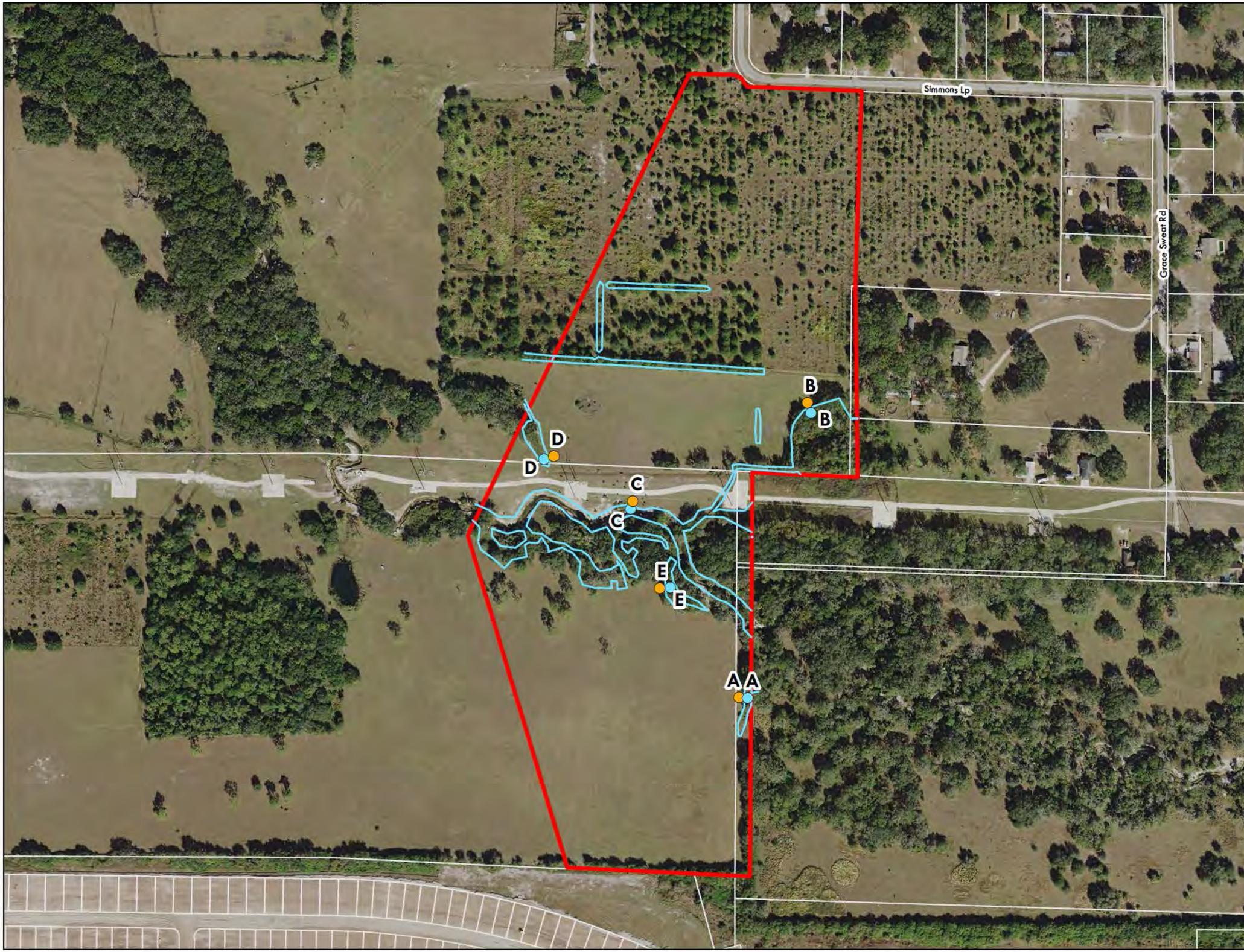
Project: Simmons Ranch

Hillsborough County

Filename:
SR_FEMA_20180802_11x17_wcs

Map Date:	Map Prepared By:
8/2/2018	WCS


National Wetlands Inventory
surface waters and wetlands
ABOUT
GET DATA
PRINT
FIND LOCATION
BASEMAPS
MAP LAYERS
Wetlands
Riparian
Riparian Mapping Areas
Data Source
Source Type
Image Scale
Image Year
Areas of Interest
FWS Managed Lands
Historic Wetland Data
Measure
LEGEND
Wetlands
Estuarine and Marine Deepwater
Estuarine and Marine Wetland
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Lake
Other
Riverine
Areas of Interest
Other
Ramsar site
Little Bullfrog Creek
L1UBHx
PFO1C
PFO1/3C
PFO1C
PFO1C
PABHx
1:9,028
27.784 | -82.363
U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov | State of Florida, State of Florida, USDA



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Legend

- Review Limits
- Upland Data Point
- Wetland Data Point
- Wetland Survey Line
- Parcel Boundary

Vicinity Map

S: 18 / 19 T: 31 R: 20

Notes:

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1 inch = 300 feet

0 300 600 Feet

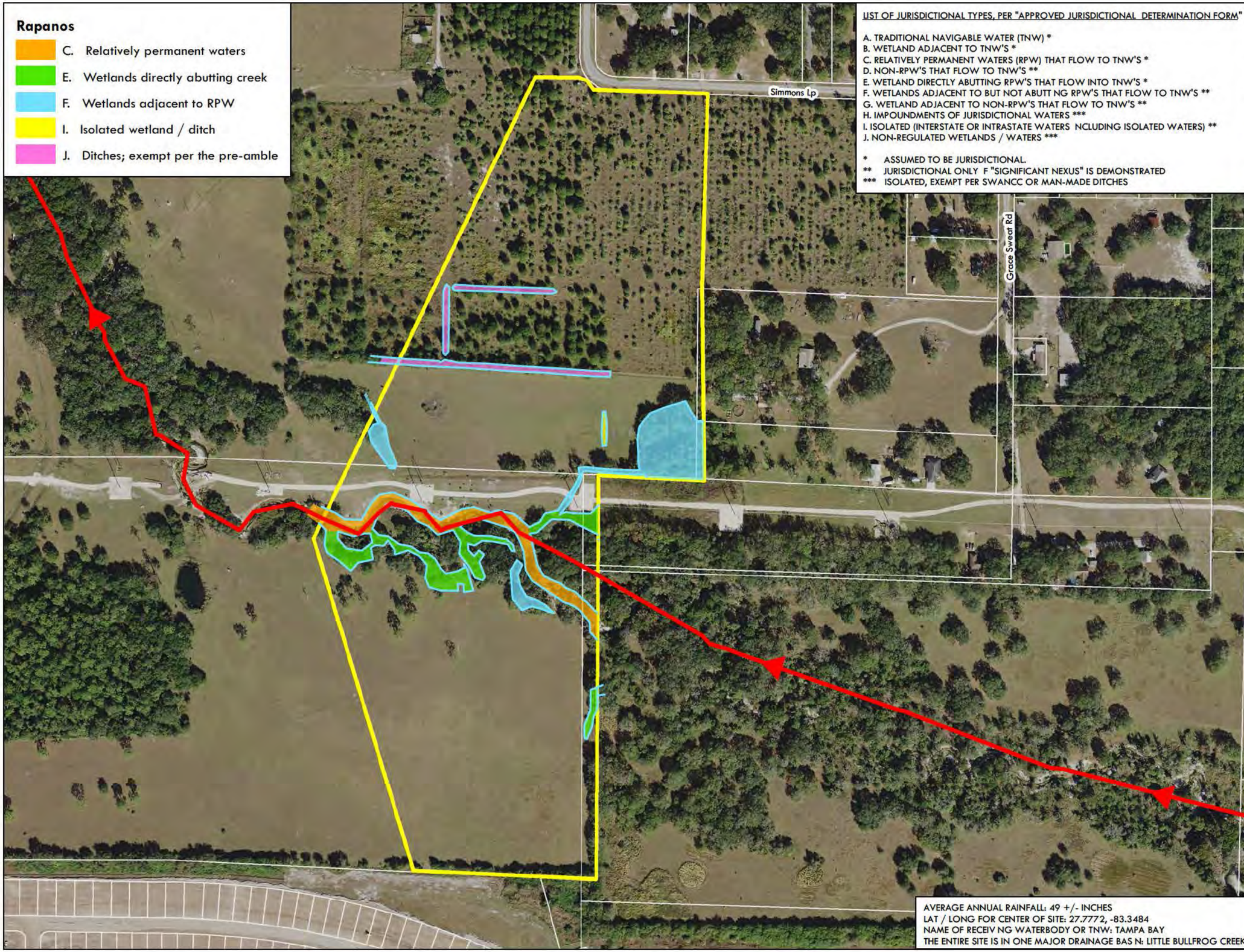
Figure: COE Data Sheet Location Exhibit

Project: Simmons Loop Road Extension

Hillsborough County

Filename:
SR_COE_DataPoints_20180803_11x17_wcs

Map Date:	Map Prepared By:
8/3/2018	WCS



LIST OF JURISDICTIONAL TYPES, PER "APPROVED JURISDICTIONAL DETERMINATION FORM"

A. TRADITIONAL NAVIGABLE WATER (TNW) *
B. WETLAND ADJACENT TO TNW'S *
C. RELATIVELY PERMANENT WATERS (RPW) THAT FLOW TO TNW'S *
D. NON-RPW'S THAT FLOW TO TNW'S **
E. WETLAND DIRECTLY ABUTTING RPW'S THAT FLOW INTO TNW'S *
F. WETLANDS ADJACENT TO BUT NOT ABUTT NG RPW'S THAT FLOW TO TNW'S **
G. WETLAND ADJACENT TO NON-RPW'S THAT FLOW TO TNW'S **
H. IMPOUNDMENTS OF JURISDICTIONAL WATERS ***
I. ISOLATED (INTERSTATE OR INTRASTATE WATERS NCLUDING ISOLATED WATERS) **
J. NON-REGULATED WETLANDS / WATERS ***

* ASSUMED TO BE JURISDICTIONAL.
** JURISDICTIONAL ONLY F "SIGNIFICANT NEXUS" IS DEMONSTRATED
*** ISOLATED, EXEMPT PER SWANCC OR MAN-MADE DITCHES

AVERAGE ANNUAL RAINFALL: 49 +/- INCHES
LAT / LONG FOR CENTER OF SITE: 27.7772, -83.3484
NAME OF RECEIV NG WATERBODY OR TNW: TAMPA BAY
THE ENTIRE SITE IS IN ONE MAJOR DRAINAGE BAS N: LITTLE BULLFROG CREEK

Clearview
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1213 E. 6th Avenue Tampa, Florida 33605
(813) 223-3919

Legend

- Review Limits
- Flow Path for Bullfrog Creek
- Wetland Survey Line
- Parcel Boundary

Vicinity Map

S: 18 / 19 T: 31 R: 20

Notes:

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0 300 600 Feet

Figure: Rapanos Classification

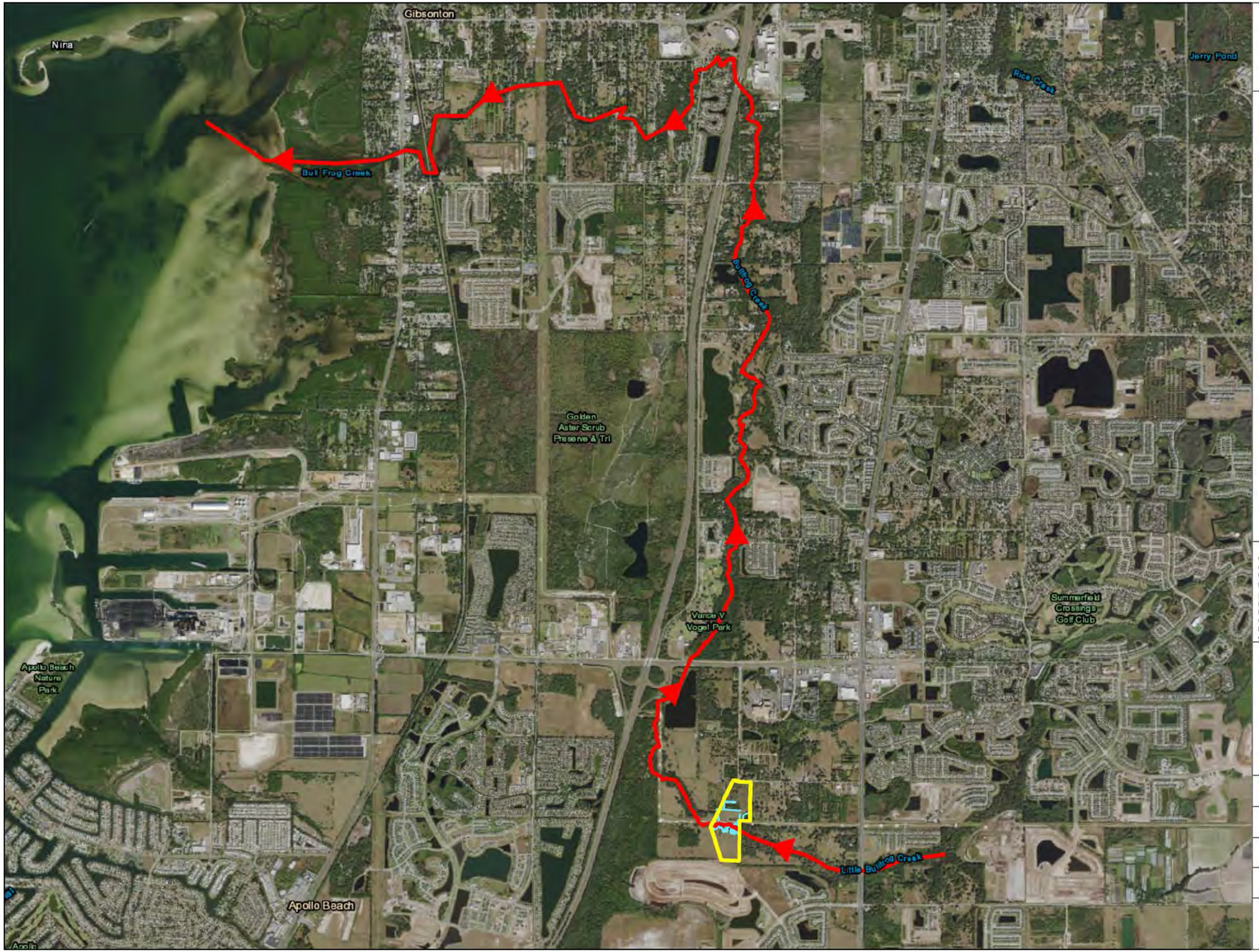
Project: Simmons Loop Road Extension

Hillsborough County

Filename: SR_Rapanos1_20180806_11x17_wcs

Map Date: 8/29/2018

Map Prepared By: WCS



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(813) 223-3919

Legend

- Review Limits
- Flow Path for Bullfrog Creek
- Wetland Survey Line

Vicinity Map

S: 18 / 19 T: 31 R: 20

Notes:
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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

1 inch = 3,000 feet

0 3,000 6,000 Feet

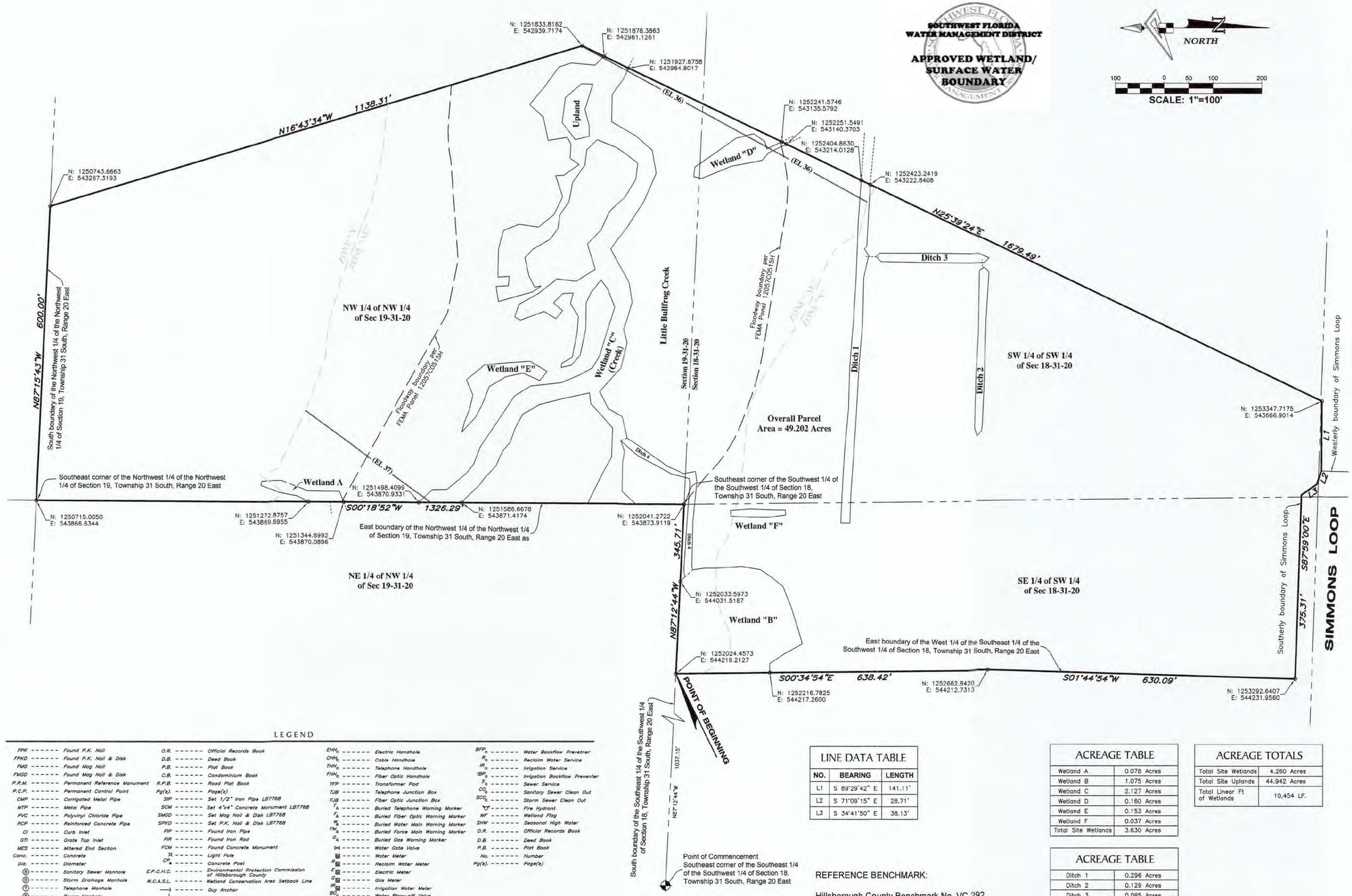
Figure: Rapanos Exhibit

Project: Simmons Loop Road Extension

Hillsborough County

Filename:
SR_Rapanos2_20180806_11x17_wcs

Map Date:	Map Prepared By:
8/8/2018	Cory Swales



VICINITY/KEY MAP

NOT TO SCALE

DESCRIPTION:

A parcel of land lying in Sections 18 & 19, Township 31 South, Range 20 East, Hillsborough County, Florida, being more particularly described as follows:

Commence at the Southeast corner of the Southeast 1/4 of the Southwest 1/4 of said Section 18, thence along the South boundary of the Southeast 1/4 of the Southwest 1/4 of Section 18, Township 31 South, Range 20 East, N.87°12'44"W., a distance of 1037.15 feet to the **POINT OF BEGINNING**; thence continue along said South boundary N.87°12'44"W., a distance of 345.71 feet to the Southeast corner of the Southwest 1/4 of the Southwest 1/4 of said Section 18, thence along the East boundary of the Northwest 1/4 of the Northwest 1/4 of said Section 19, S.00°18'52"W., a distance of 1326.29 feet to the Southeast corner of the Northwest 1/4 of the Northwest 1/4 of said Section 19, thence along the South boundary of the Northwest 1/4 of the Northwest 1/4 of said Section 19, N.87°15'43"W., a distance of 600.00 feet; thence N.16°43'34"W., a distance of 1138.31 feet; thence N.25°39'24"E., a distance of 1679.49 feet; thence S.89°29'42"E., a distance of 141.11 feet to the Westerly boundary of SIMMONS LOOP Road Right-of-Way, thence along the Southerly boundary of said Right-of-Way the following 3 courses, (1) S.71°09'15"E., a distance of 28.71 feet; thence (2) S.34°41'50"E., a distance of 38.13 feet; thence (3) S.87°59'00"E., a distance of 375.31 feet to a point on the East boundary of the West 1/4 of the Southeast 1/4 of the Southwest 1/4 of said Section 18, S.01°44'54"W., a distance of 630.09 feet; thence S.00°34'54"E., a distance of 638.42 feet to to the POINT OF BEGINNING.

Containing 49.202 acres, more or less.

SURVEYOR'S NOTES:

1) The purpose of this survey is to show wetland and hydroperiods from located flagging placed in the field by John Goolsby with Clearview Land Design, P.L. 1213 6th Ave. Tampa, FL 33605

2) The bearings and coordinates shown hereon are grid bearings based on the Florida State Plane Coordinate System, North American Datum of 1983 (1990 adjustment) as taken from Hillsborough County Horizontal Control Monuments "DIXON" and "BALM". The West boundary of the Northwest 1/4 of the Northwest 1/4 of Section 18, Township 31 South, Range 20 East having a grid bearing of N.00°19'40"W.

3) 11,160 linear feet of wetland surveyed.

4) The subject property lies in Flood Zone "X" and Flood Zone "AE", according to Flood Insurance Rate Map, Map No. 12057C0515H for Hillsborough County, Community No. 120112, Hillsborough County, Florida, dated August 28, 2008 and issued by the Federal Emergency Management Agency.
Lines shown have been digitally translated from DFIRM database information supplied by the FEMA Map Service Center https://msc.fema.gov).

5) Survey Information taken from Boundary Survey by GeoPoint Surveying, Inc. dated 03/03/11.

6) Wetlands lines and Hydroperiods were reviewed in the field by Lisa Cartwright, Southwest Florida Water Management Distict (SWFWMD) on August 22, 2017.

LEGEND

FPK	Found P.K. Nail	O.R.	Official Records Book	EHH_C	Electric Handhole
FPKD	Found P.K. Nail & Disk	D.B.	Deed Book	CHH_C	Cable Handhole
FMG	Found Mag Nail	P.B.	Plat Book	THH_C	Telephone Handhole
FMGD	Found Mag Nail & Disk	C.B.	Condominium Book	FHH_C	Fiber Optic Handhole
P.R.M.	Permanent Reference Monument	R.P.B.	Road Plat Book	TFP	Transformer Pad
P.C.P.	Permanent Control Point	Pg(s).	Page(s)	TJB	Telephone Junction Box
CMP	Corrugated Metal Pipe	SIP	Set 1/2" Iron Pipe LB7768	FJB	Fiber Optic Junction Box
MTP	Metal Pipe	SCM	Set 4"x4" Concrete Monument LB7768	T_B	Buried Telephone Warning Marker
PVC	Polyvinyl Chloride Pipe	SMCD	Set Mag Nail & Disk LB7768	F_B	Buried Fiber Optic Warning Marker
RCP	Reinforced Concrete Pipe	SPKD	Set P.K. Nail & Disk LB7768	W_B	Buried Water Main Warning Marker
CI	Curb Inlet	FIP	Found Iron Pipe	FM_B	Buried Force Main Warning Marker
GTI	Grate Top Inlet	FIR	Found Iron Rod	G_B	Buried Gas Warning Marker
MES	Mitered End Section	FCM	Found Concrete Monument	WV_B	Water Gate Valve
Conc.	Concrete		Light Pole	W_M	Water Meter
Dia.	Diameter	$CP_\bullet$	Concrete Post	R_M	Reclaim Water Meter
$(S)_S$	Sanitary Sewer Manhole	E.P.C.H.C.	Environmental Protection Commission of Hillsborough County	E_M	Electric Meter
$(D)_D$	Storm Drainage Manhole	W.C.A.S.L.	Wetland Conservation Area Setback Line	G_M	Gas Meter
$(T)_T$	Telephone Manhole		Guy Anchor	IM_M	Irrigation Water Meter
$(P)_P$	Power Manhole		Sign	BO_V	Water Blow-off Valve
$(F)_F$	Fiber Optic Manhole		Service Power Pole	ARV_{WV}	Air Release Valve
$(M)_M$	Manhole		Utility Pole	RV_{WV}	Reclaim Water Gate Valve
(S)	Survey Dimension		Abandoned Utility Pole	RBO_V	Reclaim Water Blow-off Valve
(D)	Deed Dimension		Telephone Pole	IGV_{WV}	Irrigation Gate Valve
(P)	Plat Dimension		Guy Pole	ICV_{WV}	Irrigation Control Valve
(C)	Calculated Dimension		Electric Pedestal	G_{WV}	Gas Gate Valve
(R)	Reported		Cable Pedestal	GAR_{WV}	Gas Air Release Valve
S.W.F.W.M.D.	Southwest Florida Water Management District		Telephone Pedestal	FM_{WV}	Force Main Gate Valve
			Fiber Optic Pedestal	W_C	Water Service
				BFP_D	Water Backflow Preventer
				R_D	Reclaim Water Service
				IR_D	Irrigation Service
				IBP_D	Irrigation Backflow Preventer
				S_D	Sewer Service
				CO_S	Sanitary Sewer Clean Out
				SCO_D	Storm Sewer Clean Out
					Fire Hydrant
				WF	Wetland Flag
				SHW	Seasonal High Water
				O.R.	Official Records Book
				D.B.	Deed Book
				P.B.	Plat Book
				No.	Number
				Pg(s).	Page(s)

LINE DATA TABLE

NO.	BEARING	LENGTH
L1	S 89°29'42" E	141.11'
L2	S 71°09'15" E	28.71'
L3	S 34°41'50" E	38.13'

ACREAGE TABLE

Wetland A	0.078 Acres
Wetland B	1.075 Acres
Wetland C	2.127 Acres
Wetland D	0.160 Acres
Wetland E	0.153 Acres
Wetland F	0.037 Acres
Total Site Wetlands	3.630 Acres

ACREAGE TABLE

Ditch 1	0.296 Acres
Ditch 2	0.129 Acres
Ditch 3	0.095 Acres
Ditch 4	0.110 Acres
Total Site Ditches	0.630 Acres

ACREAGE TOTALS

Total Site Wetlands	4.260 Acres
Total Site Uplands	44.942 Acres
Total Linear Ft of Wetlands	10,454 LF.

REFERENCE BENCHMARK:

Hillsborough County Benchmark No. VC-292
Elevation = 38.11'(NAVD88)

NOTE: Elevations shown hereon are in feet and refer to the North American Vertical Datum of 1988 (NAVD88)

Sheet 1 For Boundary Info.
Sheets 2 and 3 for Detail
Sheet 4 For for Coordinate Tables

VERTICAL DATUM: NAVD88
Conversion from NAVD88 to NGVD29: **+0.89'**

PROJECT: SIMMONS RANCH
PHASE: LOCATE WETLAND FLAGS HYDRO ELEV
DRAWN: DMM DATE: 09/17 CHECKED BY: JDW
P.CHIEF: CH FIELD BOOK: 29-2017-Page: 17
DATA FILE: SIMMONS LOOP CH.txt

REVISIONS

DATE	DESCRIPTION	DRAWN BY

SURVEYOR'S CERTIFICATION
I DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY SUPERVISION AND MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER RULES 5J-17.051, 5J-17.052, AND 5J-17-053, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

John D. Weigle
FLORIDA PROFESSIONAL SURVEYOR & MAPPER NO. LS5246

DATE OF LAST FIELD SURVEY: **September 29, 2017**

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

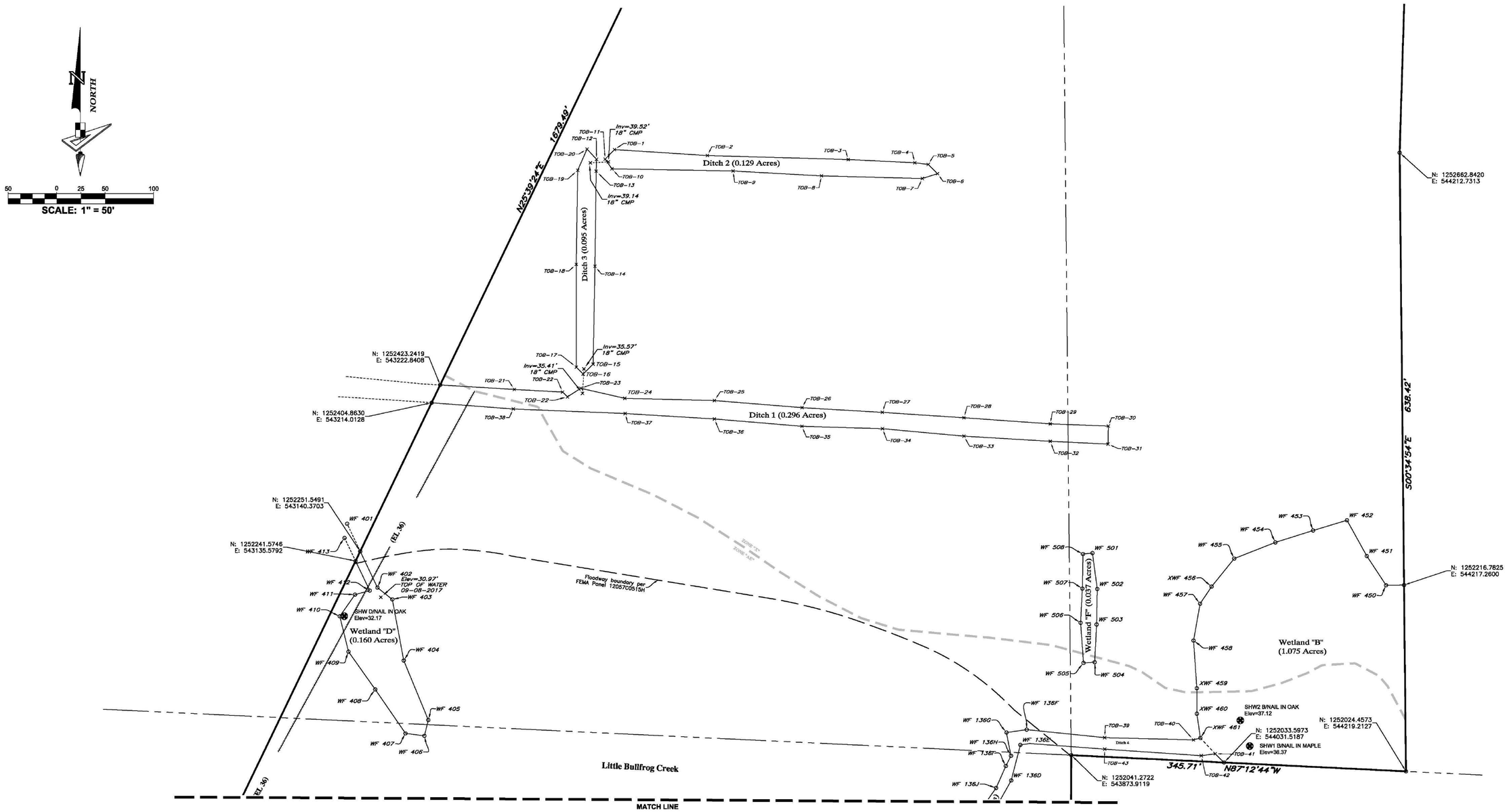
SIMMONS RANCH

(NOT A BOUNDARY SURVEY)
SPECIFIC PURPOSE SURVEY
(WETLAND DELINEATION)
PREPARED FOR
SPENCER FARMS
LOCATED IN
Sections 18 & 19, Township 31 S., Range 20 E.
Hillsborough County, Florida

GeoPoint Surveying, Inc.
1403 E. 5th Avenue
Tampa, Florida 33605
www.geopointsurvey.com
Phone: (813) 248-8888
Fax: (813) 248-2266
Licensed Business No.: LB 7768

SHEET NUMBER: **01** of **04**

FILE PATH: P:\SIMMONS RANCH\MASTER PLAN\SURVEY\SIMMONS RANCH-WS.DWG PLOTTED BY: DAVID MARISCAL ON: 10/20/2017 8:23 AM LAST SAVED BY: DAVIDM ON: 10/19/2017 4:31 PM



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Conversion from NAVD88 to NGVD29: **+0.89'**

SIMMONS RANCH

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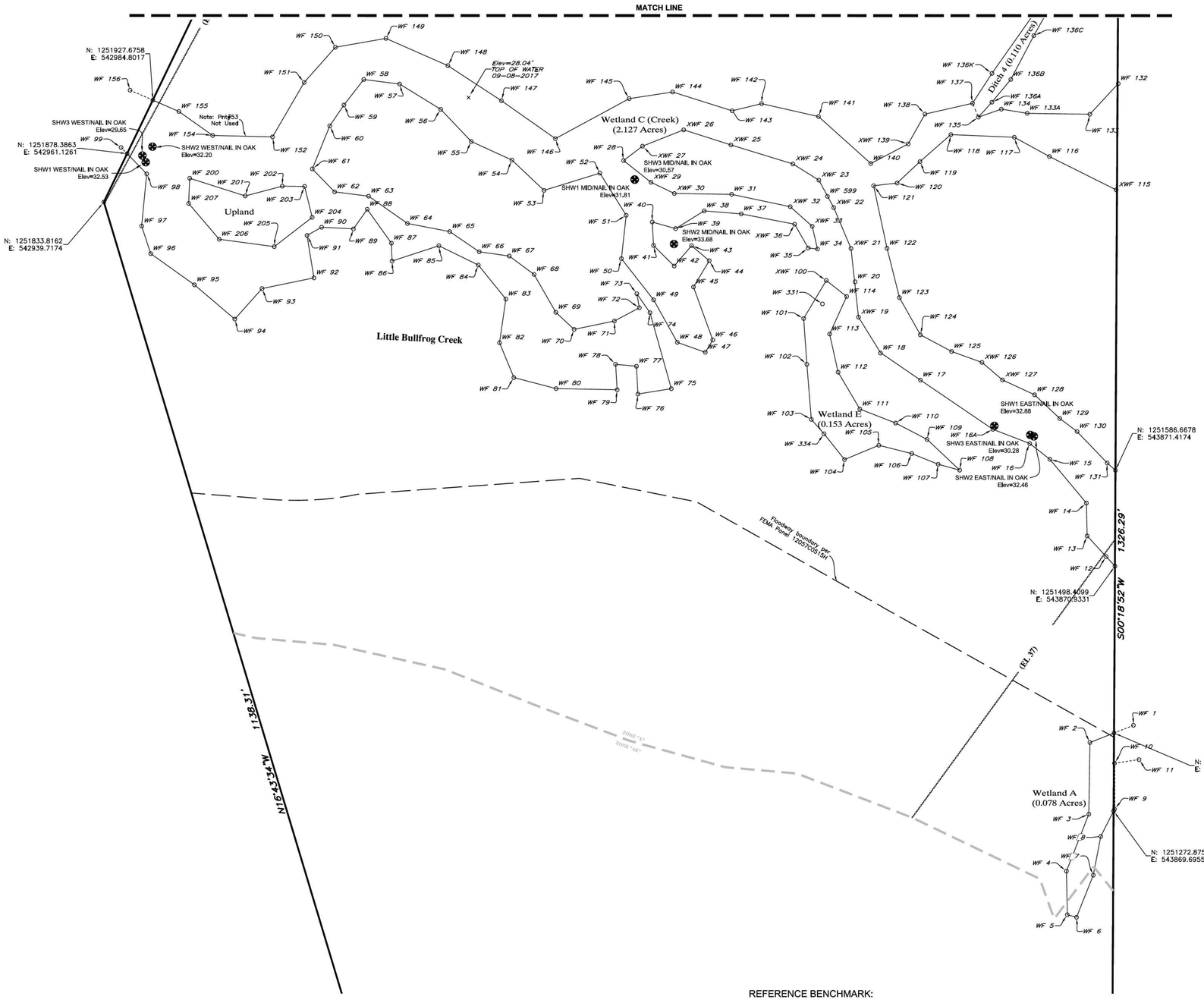
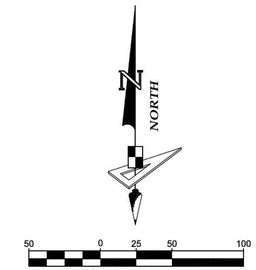
SHEET NUMBER: **02** of **04**

FILE PATH: P:\SIMMONS RANCH\MASTER PLAN\SURVEY\SIMMONS RANCH-WS.DWG PLOTTED BY: DAVID MARISCAL ON: 10/20/2017 8:58 AM LAST SAVED BY: DAVIDM ON: 10/20/2017 8:45 AM





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SHEET NUMBER: **03** of **04**

FILE PATH: P:\SIMMONS RANCH\MASTER PLAN\SURVEY\SIMMONS RANCH-WS.DWG PLOTTED BY: DAVID MARISCAL ON: 10/20/2017 8:59 AM LAST SAVED BY: DAVIDM ON: 10/20/2017 8:45 AM

Wetland Point Table

Flag #	Northing	Easting
WF 1	1251351.7400	543887.9470
WF 2	1251335.9440	543847.8840
WF 3	1251269.9710	543846.8380
WF 4	1251217.4080	543826.2930
WF 5	1251177.2550	543827.0450
WF 6	1251174.9970	543835.5400
WF 7	1251213.7190	543850.9960
WF 8	1251249.4710	543857.8460
WF 9	1251274.5200	543870.5280
WF 10	1251316.8420	543870.5310
WF 11	1251320.2120	543893.0750
WF 12	1251507.1990	543862.8420
WF 13	1252053.5710	544012.3720
WF 13	1251526.2260	543845.3260
WF 14	1251556.4980	543844.6500
WF 15	1251596.8410	543810.9630
WF 16	1251611.3570	543792.4510
WF 16A	1251624.4510	543758.4810
WF 17	1251669.7990	543691.8400
WF 18	1251694.6800	543654.9880
WF 18C	1252248.5820	543887.3580
WF 20	1251760.2980	543631.5970
WF 21	1252064.6170	543806.9660
WF 28	1251871.9840	543418.3600
WF 31	1251840.8910	543517.9180
WF 34	1251790.5120	543596.9960
WF 35	1251791.4620	543588.4650

Wetland Point Table

Flag #	Northing	Easting
WF 37	1251822.8610	543526.7470
WF 38	1251825.6540	543492.5700
WF 39	1251809.3360	543466.2820
WF 40	1251815.4010	543444.7710
WF 41	1251793.7910	543445.9410
WF 42	1251774.8130	543464.9830
WF 43	1251793.5910	543480.9340
WF 44	1251779.7650	543497.2820
WF 45	1251755.5700	543482.7320
WF 46	1251706.7220	543500.5410
WF 47	1251695.3610	543493.6140
WF 48	1251704.5220	543467.8850
WF 49	1251743.6920	543446.0350
WF 50	1251781.6440	543416.3930
WF 51	1251821.6070	543420.7820
WF 52	1251860.4330	543396.5210
WF 53	1251844.5210	543345.1040
WF 54	1251872.4590	543315.5430
WF 55	1251889.5770	543278.1290
WF 56	1251919.2110	543249.9550
WF 57	1251942.5000	543212.0690
WF 58	1251946.6520	543179.0850
WF 59	1251923.1610	543160.8190
WF 60	1251903.9410	543147.7500
WF 61	1251864.3250	543131.7180
WF 62	1251843.1530	543152.2400
WF 63	1251839.2020	543183.5150

Wetland Point Table

Flag #	Northing	Easting
WF 64	1251814.0860	543219.2900
WF 65	1251806.5850	543258.2540
WF 66	1251787.9750	543285.4030
WF 67	1251784.0470	543313.0910
WF 68	1251767.0700	543335.9480
WF 69	1251732.2190	543355.9510
WF 70	1251716.4990	543372.8320
WF 71	1251724.2080	543409.9020
WF 72	1251736.4120	543432.9190
WF 73	1251749.3460	543430.5960
WF 74	1251731.8870	543442.7040
WF 75	1251661.8880	543462.3840
WF 76	1251656.9670	543431.5880
WF 77	1251682.5480	543430.2540
WF 78	1251684.3420	543411.0190
WF 79	1251660.8530	543412.4570
WF 80	1251661.9700	543356.2110
WF 81	1251672.1190	543317.3370
WF 82	1251704.2020	543304.1360
WF 83	1251744.4040	543309.9750
WF 84	1251775.8010	543284.5840
WF 85	1251793.5460	543248.2520
WF 86	1251779.4340	543205.1200
WF 87	1251795.9310	543204.5450
WF 88	1251827.1080	543182.3090
WF 89	1251809.0970	543169.5710
WF 90	1251810.5640	543140.2730

Wetland Point Table

Flag #	Northing	Easting
WF 91	1251803.0230	543126.8160
WF 92	1251763.9670	543133.2040
WF 93	1251754.0800	543085.3890
WF 94	1251725.9590	543060.2970
WF 95	1251757.5270	543023.1390
WF 96	1251786.2970	542982.8330
WF 97	1251811.7180	542974.5020
WF 98	1251859.8030	542979.2000
WF 99	1251884.0280	542955.6390
WF 101	1251726.4870	543584.2310
WF 102	1251684.3210	543587.2110
WF 103	1251633.6390	543591.2680
WF 104	1251596.5630	543621.8700
WF 105	1251609.7240	543653.4580
WF 106	1251602.0630	543683.7680
WF 107	1251592.2250	543708.0970
WF 108	1251586.8310	543727.9360
WF 109	1251615.1540	543697.8730
WF 110	1251630.1870	543668.9420
WF 111	1251643.0830	543636.0070
WF 112	1251677.0390	543615.9410
WF 113	1251712.2560	543608.1640
WF 114	1251746.7830	543623.8110
WF 116	1251875.6880	543810.6180
WF 117	1251893.4440	543778.2570
WF 118	1251895.9260	543719.7970
WF 119	1251871.0460	543691.3810

Wetland Point Table

Flag #	Northing	Easting
WF 120	1251851.2820	543670.3000
WF 121	1251848.7720	543648.6520
WF 122	1251791.2000	543661.0340
WF 123	1251745.7680	543672.4620
WF 124	1251711.4360	543691.7040
WF 125	1251696.1820	543720.4950
WF 128	1251656.2260	543796.9610
WF 129	1251634.4560	543820.0590
WF 130	1251622.4500	543836.0450
WF 131	1251593.4680	543863.8010
WF 132	1251942.9140	543873.9790
WF 133	1251915.4910	543790.0950
WF 133	1251914.6550	543847.8320
WF 134	1251919.3760	543766.3140
WF 135	1251911.9780	543745.2070
WF 136	1251925.7620	543757.5670
WF 136B	1251946.7360	543775.0180
WF 136C	1251987.0890	543796.2480
WF 136D	1252015.0370	543811.9710
WF 136E	1252051.8940	543821.4440
WF 136F	1252067.6140	543827.9660
WF 136G	1252064.6330	543807.1250
WF 136H	1252040.5830	543811.7630
WF 136I	1252030.0050	543806.4260
WF 136J	1252007.3330	543796.4000
WF 136K	1251952.3230	543757.6670
WF 137	1251924.7390	543739.7550

Wetland Point Table

Flag #	Northing	Easting
WF 138	1251914.8010	543695.9800
WF 140	1251869.3050	543646.0640
WF 141	1251912.5440	543597.9140
WF 142	1251924.4060	543545.4470
WF 143	1251917.8250	543518.3860
WF 144	1251935.1740	543463.5410
WF 145	1251929.0490	543423.5660
WF 146	1251892.2140	543355.5930
WF 147	1251927.1620	543305.8420
WF 148	1251959.4170	543256.5510
WF 149	1251984.5300	543199.5060
WF 150	1251976.3660	543152.9540
WF 151	1251943.9790	543124.2190
WF 152	1251893.8490	543095.0340
WF 154	1251895.1360	543039.9440
WF 155	1251917.2070	543008.8190
WF 156	1251936.7870	542963.8990
WF 200	1251855.7220	543018.7440
WF 201	1251839.4040	543069.9710
WF 202	1251848.3920	543104.0270
WF 203	1251848.2140	543124.5720
WF 204	1251819.7050	543131.6120
WF 205	1251792.7230	543096.6920
WF 206	1251799.4910	543045.9510
WF 207	1251832.4830	543017.8190
WF 331	1251739.9510	543601.5490
WF 334	1251620.2820	543603.0320

Wetland Point Table

Flag #	Northing	Easting
WF 401	1252280.0750	543126.8120
WF 402	1252214.1040	543158.1680
WF 403	1252201.9650	543173.4630
WF 404	1252138.9010	543185.2600
WF 405	1252077.5620	543210.5980
WF 406	1252061.2150	543206.5530
WF 407	1252063.7590	543187.0490
WF 408	1252109.1570	543155.8090
WF 409	1252148.0710	543128.2670
WF 410	1252184.5460	543119.2780
WF 411	1252206.8850	543134.9830
WF 412	1252211.0950	543150.1490
WF 413	1252265.3940	543124.1930
WF 450	1252216.5940	544198.6960
WF 451	1252246.6680	544178.8790
WF 452	1252283.6650	544158.3760
WF 453	1252273.0610	544123.4280
WF 454	1252260.8200	544084.4900
WF 455	1252244.1140	544042.0680
WF 457	1252197.5510	544006.8430
WF 458	1252159.5150	544000.1110
WF 501	1252249.8210	543895.7790
WF 502	1252212.6850	543900.7520
WF 503	1252176.1170	543900.0680
WF 504	1252137.2310	543898.1120
WF 505	1252136.4230	543886.5970
WF 506	1252177.7960	543883.5620

Wetland Point Table

Flag #	Northing	Easting
WF 507	1252213.1330	543885.3720
WF 508	1252248.7790	543886.0700
WF 599	1251839.0140	543606.1230
XWF 19	1251727.7550	543634.7400
XWF 21	1251791.0200	543627.8250
XWF 22	1251828.6580	543611.9480
XWF 23	1251853.9650	543598.2220
XWF 24	1251868.8650	543574.3110
XWF 25	1251886.4300	543517.2610
XWF 26	1251900.3030	543473.7630
XWF 27	1251885.2510	543435.7860
XWF 29	1251852.0400	543443.6190
XWF 30	1251841.6450	543465.1410
XWF 32	1251829.4750	543571.8820
XWF 33	1251811.4610	543592.1220
XWF 36	1251813.3810	543575.9180
XWF 100	1251761.5420	543605.0690
XWF 115	1251844.9790	543872.0560
XWF 126	1251686.0690	543748.4260
XWF 127	1251669.9100	543767.4190
XWF 139	1251887.3450	543680.4740
XWF 456	1252215.2130	544018.7130
XWF 459	1252110.3180	544003.4460
XWF 460	1252084.0370	544003.4870
XWF 461	1252059.0130	544007.1320

Ditches (TOB) Point Table

Flag #	Northing	Easting
TOB-1	1252666.1260	543402.7240
TOB-2	1252659.9410	543498.5100
TOB-3	1252655.8170	543643.8210
TOB-4	1252652.5390	543712.4610
TOB-5	1252650.7190	543726.3480
TOB-6	1252641.2710	543735.9500
TOB-7	1252636.2120	543720.2200
TOB-8	1252638.9640	543616.3030
TOB-9	1252643.9930	543524.9920
TOB-10	1252646.2610	543400.1200
TOB-11	1252656.1910	543393.0200
TOB-12	1252656.1190	543384.1190
TOB-13	1252643.8090	543383.8120
TOB-14	1252545.7240	543382.5240
TOB-15	1252444.7450	543380.6410
TOB-16	1252434.4620	543370.3780
TOB-17	1252441.6530	543363.3000
TOB-18	1252547.6550	543363.2500
TOB-19	1252644.7740	543364.7360
TOB-20	1252666.6200	543374.4040
TOB-21	1252418.6090	543299.3180
TOB-22	1252415.8870	543349.1770
TOB-22	1252410.9250	543354.1250
TOB-23	1252419.8110	543367.9500
TOB-24	1252409.4420	543413.3480
TOB-25	1252407.1410	543505.8240
TOB-26	1252399.8350	543596.2420

Ditches (TOB) Point Table

Flag #	Northing	Easting
TOB-27	1252394.9570	543679.0150
TOB-28	1252389.4060	543763.2130
TOB-29	1252383.1090	543852.2630
TOB-30	1252380.8620	543912.2120
TOB-31	1252362.2190	543911.8650
TOB-32	1252365.1010	543852.2620
TOB-33	1252370.4530	543763.2160
TOB-34	1252378.0880	543679.1750
TOB-35	1252380.6170	543596.0520
TOB-36	1252388.1540	543505.8290
TOB-37	1252393.7600	543413.6780
TOB-38	1252398.4490	543298.2900
TOB-39	1252059.3630	543908.4310
TOB-40	1252057.0470	543999.9960
TOB-41	1252042.6740	544022.4420
TOB-42	1252040.7350	544008.0960
TOB-43	1252047.4720	543908.4160

REFERENCE BENCHMARK:

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Elevation = 38.11'(NAVD88)

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DRAWN: DMM | DATE: 09/17 | CHECKED BY: JDW
P.CHIEF: CH | FIELD BOOK: 29-2017-Page: 17
DATA FILE: SIMMONS LOOP CH.txt

REVISIONS

DATE	DESCRIPTION	DRAWN BY

See Sheet 1 for Surveyor's Certification

DATE OF LAST FIELD SURVEY: **September 29, 2017**

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Fax: (813) 248-2266
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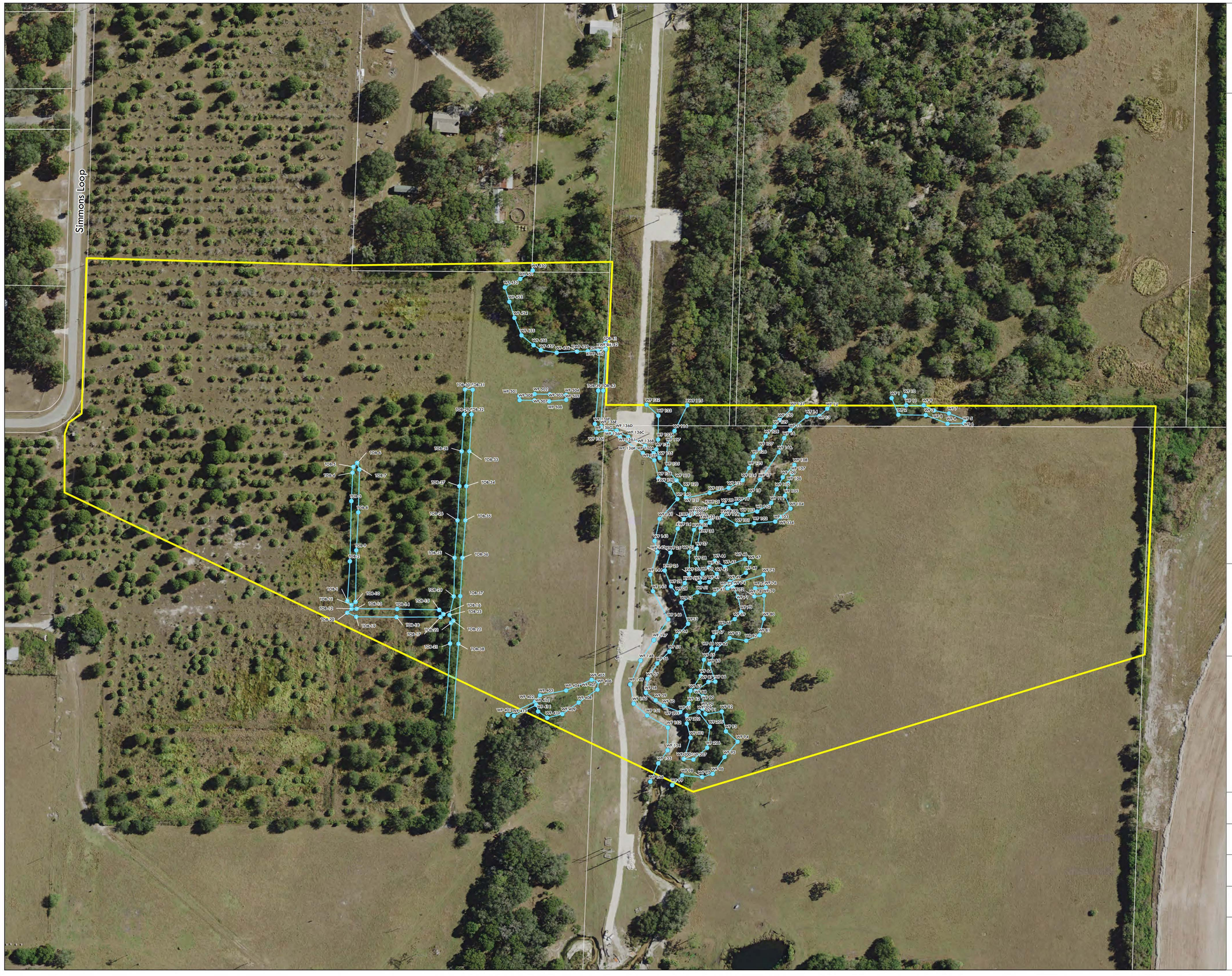
FILE PATH: P:\SIMMONS RANCH\MASTER PLAN\SURVEY\SIMMONS RANCH-WS.DWG PLOTTED BY: DAVID MARISCAL ON: 10/20/2017 8:59 AM LAST SAVED BY: DAVIDM ON: 10/20/2017 8:45 AM



Clearview
LAND DESIGN, P.L.
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(813) 223-3919

Legend

- Wetland Survey Line
- Wetland Flag Locations
- Boundary Survey
- Parcel Boundary

Vicinity Map

S: 18 T: 31 R: 20

Notes:

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N
W E
S

1 inch = 100 feet

0 100 200 400 Feet

Figure: Wetland Map

Project: Simmons Ranch

Hillsborough County

Filename:
SimmonsRanch_WetlandDelineation_20171025

Map Date:
10/24/2017

Map Prepared By:
Cory Swales