



Technical Memorandum

From: Gene B. Losito, P.E., Kimley-Horn and Associates, Inc.

Date: October 17, 2022

RE: Ocala Travel Center
Drainage Analysis
Kimley-Horn Project No: 045545009

The purpose of this technical memorandum is to provide a preliminary Drainage Analysis for the Ocala Travel Center (the "Project").

The Project is located in central Marion County, Florida, east of I-75, between US 27 and CR 326. The project area is approximately 32.8 acres in size and consists of a proposed travel center including fuel stations.

The Project site varies in elevation from 80' to 120'. No flood plains exist on site. The site is composed of Type A, well-drained soils. In existing conditions, the site is within 3 drainage basins delineated by the Northwest Ocala and Florida Ridge Watershed Management Plans. In proposed conditions, conditions, the Project will include 5 stormwater retention areas designed to Marion County, St. Johns River Water Management District, and Florida Department of Transportation requirements as applicable.

THIS IS TO CERTIFY THAT THE ENCLOSED ENGINEERING MEMORANDUM WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.



Gene B Losito

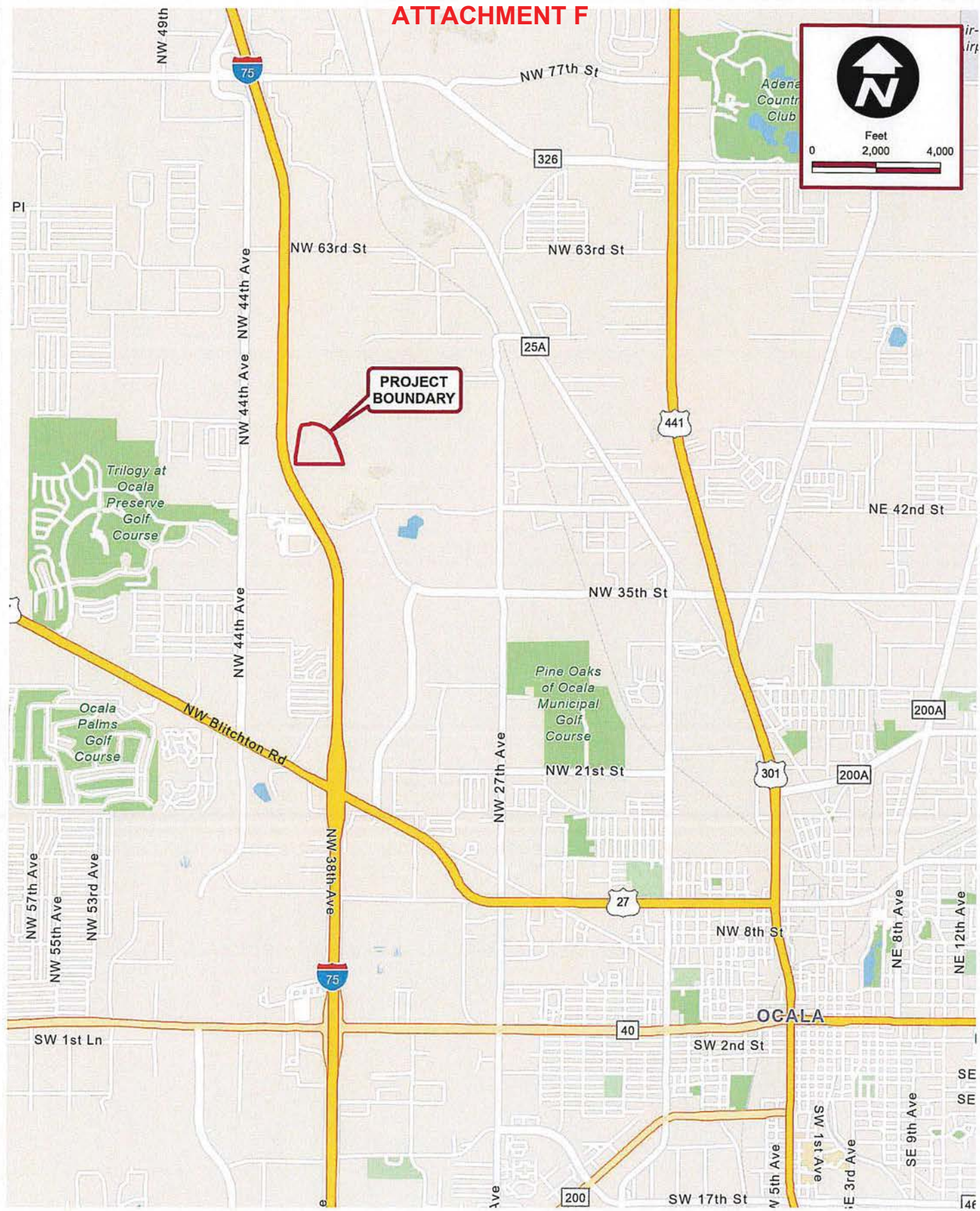
Digital signed by Gene B Losito
2022 October 17 10:42:06 AM
Certificate ID: 41520200010411CE0600013186
C=US E=GENE.B.LOSITO@KIMLEY-HORN.COM

GENE BRUNO LOSITO, P.E.
Florida Registration Number #75547
Registry No. 35106

- Attachments: Location Map
Aerial Map
USGS Quad Map
FEMA Firmette
NRCS Soils Survey
Existing Conditions Drainage Analysis Exhibit
Proposed Conditions Drainage Analysis Exhibit



ATTACHMENT F



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Kimley»Horn

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 1700 Southeast 17th Street, Suite 200, Ocala FL 34471
 Phone: (352) 438-3000
 www.kimley-horn.com Registry Number 35106

LOCATION MAP

OCALA TRAVEL CENTER MARION COUNTY, FLORIDA

Scale: As Noted	Project No.: 045545009	October 2022	Figure 1
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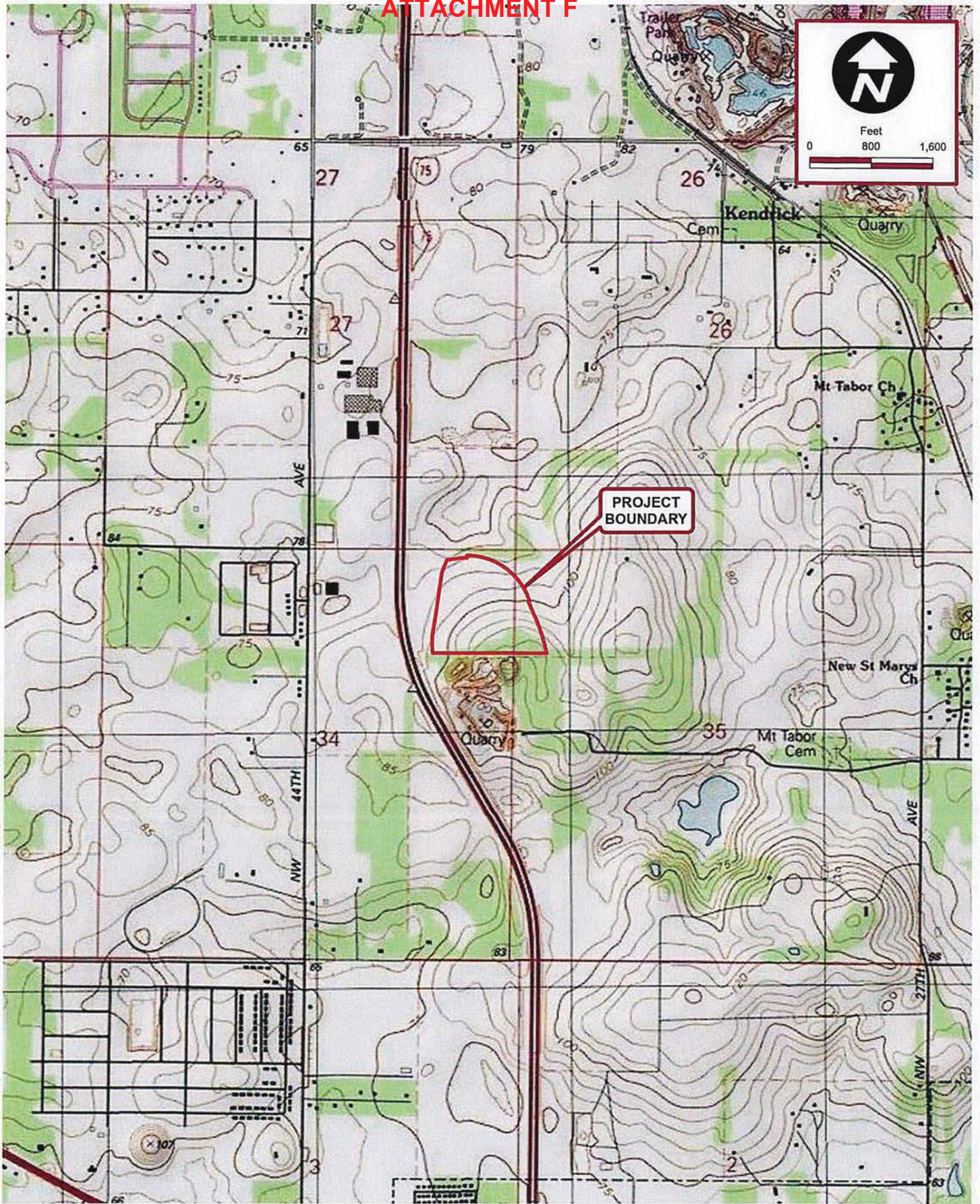
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AERIAL MAP

OCALA TRAVEL CENTER
MARION COUNTY, FLORIDA

Scale: As Noted	Project No.: 045545009	October 2022	Figure 2
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QUADRANGLE MAP

OCALA TRAVEL CENTER
MARION COUNTY, FLORIDA

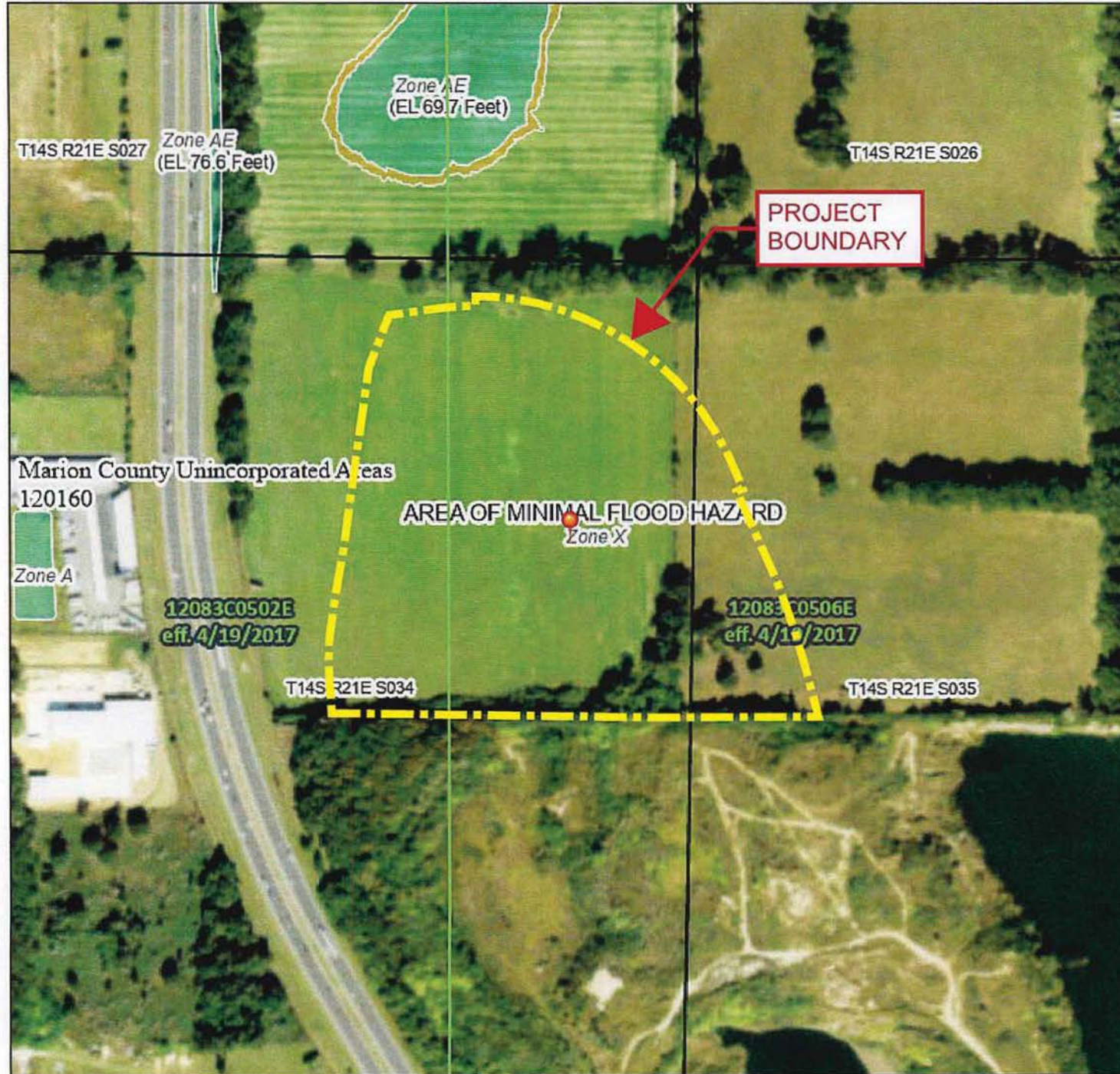
Scale: As Noted	Project No.: 045545009	October 2022	Figure 3
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National Flood Hazard Layer FIRMette

ATTACHMENT F



82°11'30"W 29°14'24"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone J
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes, Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

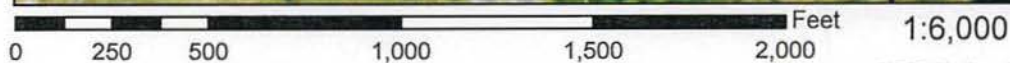


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

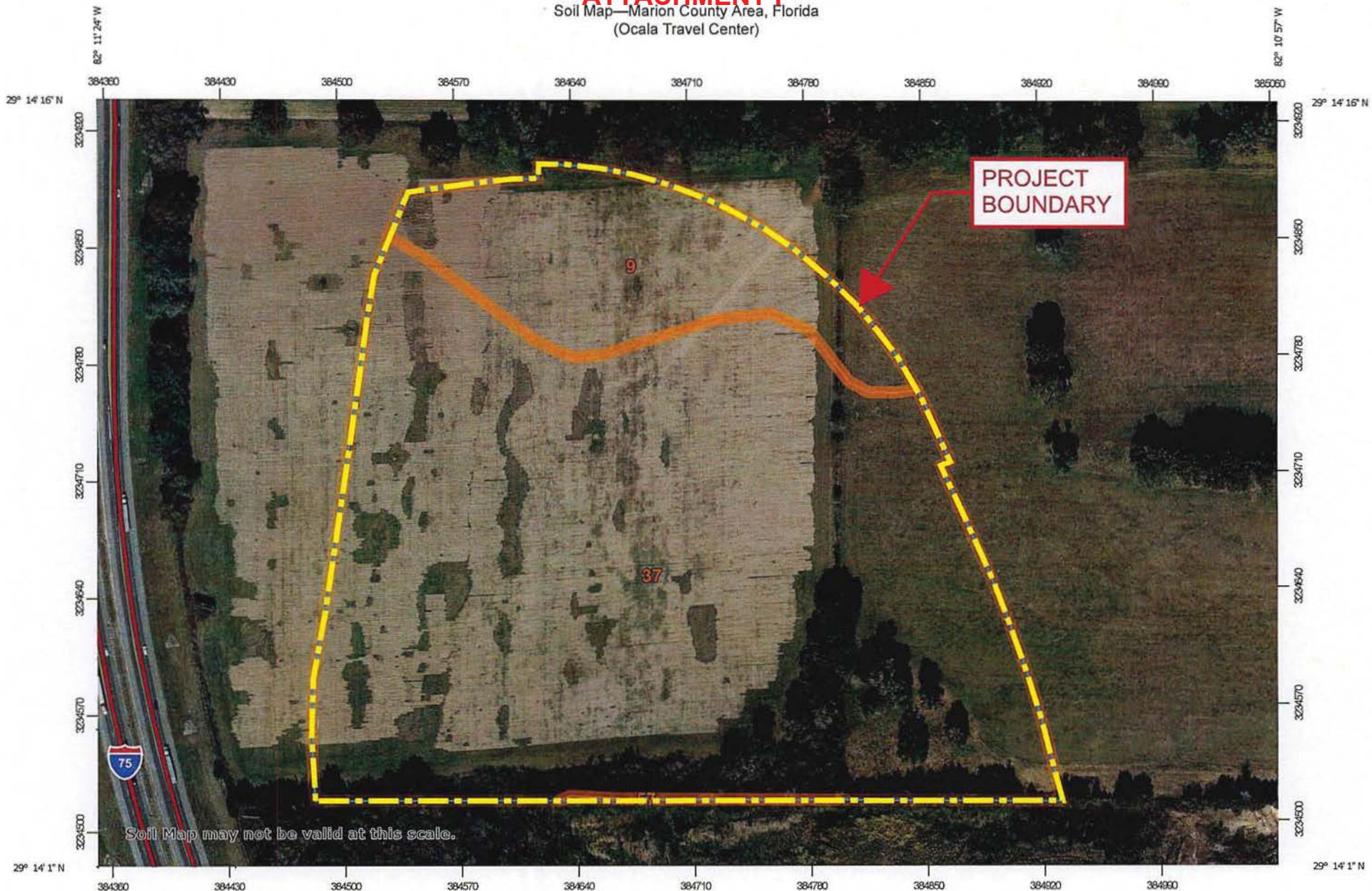
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/14/2022 at 8:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

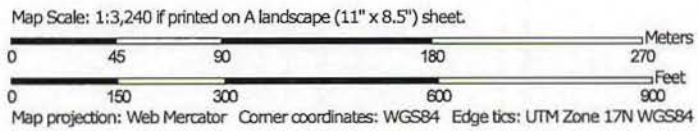


82°10'52"W 29°13'52"N

NRCS SOIL SURVEY
ATTACHMENT F
Soil Map—Marion County Area, Florida
(Ocala Travel Center)







































Soil Map may not be valid at this scale.



ATTACHMENT F
Soil Map—Marion County Area, Florida
(Ocala Travel Center)

MAP LEGEND

Area of Interest (AOI)		 Spoil Area	
	Area of Interest (AOI)	 Stony Spot	
Soils		 Very Stony Spot	
	Soil Map Unit Polygons	 Wet Spot	
	Soil Map Unit Lines	 Other	
	Soil Map Unit Points	 Special Line Features	
Special Point Features		Water Features	
	Blowout	 Streams and Canals	
	Borrow Pit	Transportation	
	Clay Spot	 Rails	
	Closed Depression	 Interstate Highways	
	Gravel Pit	 US Routes	
	Gravelly Spot	 Major Roads	
	Landfill	 Local Roads	
	Lava Flow	Background	
	Marsh or swamp	 Aerial Photography	
	Mine or Quarry		
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Marion County Area, Florida
Survey Area Data: Version 20, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

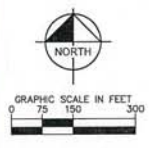
Date(s) aerial images were photographed: Jan 9, 2022—Feb 10, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9	Arredondo sand, 0 to 5 percent slopes	5.3	16.1%
37	Hague sand, 2 to 5 percent slopes	27.5	83.8%
57	Pits	0.0	0.1%
Totals for Area of Interest		32.8	100.0%

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No.	REVISIONS	DATE

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 1100 SE 17TH STREET, SUITE 300, OCALA, FL 34747
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35198

I HEREBY CERTIFY THAT THESE PLANS WERE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE, EXCEPT AS WAIVED.

LICENSED PROFESSIONAL
 GENE BRUNO LUSTO, P.E.
 FLORIDA LICENSE NUMBER 73247
 CHECKED BY: CMA
 DATE:

EXIST. CONDITION DRAINAGE ANALYSIS EXHIBIT

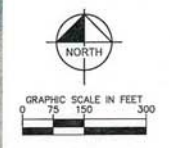
OCALA TRAVEL CENTER
 PREPARED FOR BUCHEE'S OCALA, LLC
 MARION COUNTY FLORIDA

SHEET NUMBER **01**

NOTES:
 1. BASIN BOUNDARIES SHOWN FOR THE MARION COUNTY WATERSHED MANAGEMENT PLANS FOR NORTHWEST OCALA AND FLORIDA RIDGE.
 2. TOPOGRAPHIC INFORMATION FROM ALTA SURVEY AND TITLE SURVEY PREPARED BY JCH CONSULTING GROUP, INC. DATED SEPTEMBER 1, 2022.

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ATTACHMENT F



NO.	REVISIONS	DATE

Kimley»Horn
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 1700 SE 17TH STREET, SUITE 300, OCALA, FL 34701
 WWW.KIMLEY-HORN.COM RECEIPT# NO. 38198

I HEREBY CERTIFY THAT THESE PLANS WERE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE, EXCEPT AS WAIVED.

LICENSED PROFESSIONAL
 GENE BRUNO LUSTIG, P.E.
 EXPIRES: 12/31/2023
 FLS REG. NO. 75347

KHA PROJECT: 045545009
 DATE: OCTOBER 2022
 SCALE: AS SHOWN
 DESIGNED BY: KHA
 DRAWN BY: CHM
 CHECKED BY: GBL
 DATE:

**PROP. CONDITION
 DRAINAGE
 ANALYSIS EXHIBIT**

**OCALA TRAVEL
 CENTER**
 PREPARED FOR:
 BUC-EE'S OCALA, LLC
 MARION COUNTY FLORIDA

SHEET NUMBER
02

- NOTES:**
1. TOPOGRAPHIC INFORMATION FROM ALTA SURVEY AND TITLE SURVEY PREPARED BY JCH CONSULTING GROUP, INC. DATED SEPTEMBER 1, 2022.
 2. THIS PROJECT SHALL UTILIZE ON-SITE WATER RETENTION AREAS SIZED TO MEET THE REGULATORY REQUIREMENTS OF MARION COUNTY, THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION. ALL RETENTION AREAS AND GRASSING SYSTEMS WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.

Kimley-Horn and Associates, Inc. shall be held harmless by the client for any and all damages, claims, or liabilities of any kind, including reasonable attorneys' fees, arising out of or from the use of the information contained herein, whether or not such damages, claims, or liabilities are caused in whole or in part by the negligence of Kimley-Horn and Associates, Inc.