

3.08.00 Environmental Data

Purpose

As per requirements in LDC Sections 3.08.00 and questions in the CU Checklist

Preparation Of Environmental Data

Preparation of Environmental Data, Environmental Data Submittal Requirement shall be prepared by an individual with academic credentials and experience in the area of environmental science or natural resource management. Academic credentials and experience shall be a bachelor's or higher degree in one of the biological sciences with at least two years of ecological or biological professional experience in the State of Florida

Qualifications of Environmental Consultant
Collier Environmental Consultants Inc.
3211 68th Street SW
Naples, Florida 34105

2/96 - Present

Marco A. Espinar- Biologist

Environmental Data. The following shall be submitted where applicable to evaluate projects.

A) Wetlands

- i) Identify on Current Aerial / the location of all Collier County / SFWMD Jurisdictional wetlands according to the Florida Land Use Cover and Forms Classification System FLUCFCS**

A FLUCFCS map and vegetation inventory has been included.

Power Lodge consists of approximately 1.38 acres and is located in Section 29, Township 50, Range 26, Collier County. This parcel is located at a very busy roadway (US 41) Tamiami Trail. The property is bordered by Tamiami Trail (US 41) along its eastern boundary, an FPL easement along its western boundary and commercial building along its southern boundaries. This project consists of two parcels Lots # 28 and # 27 (Myrtle Groves Acres). Lot # 28 is entirely cleared and developed with a commercial structure and a parking lot. Lot # 27 is fully vegetated predominately with exotic vegetation. Lot # 27 is approximately 0.69 acres in size.

B) Listed Species and Bald Eagle Nests and Nest Protection Zones

- i) **Provide a wildlife survey for the nests of bald eagle and for listed species known to inhabit biological communities similar to those existing on site. The survey shall be conducted in accordance with the guidelines or recommendations of the FFWCC and the USFWS. Survey times may be reduced or waived where an initial habitat assessment by the environmental consultant indicates that the likelihood of listed species occurrence is low as determined by the FFWCC and USFWS. Where an initial habitat assessment by the environmental consultant indicates that the likelihood of listed species occurrence is low, the survey time may be reduced or waived by the County Manager or designee.**

Wildlife Listed Species Study
(LDC10.02.3.A.2.m)

A brief examination of the parcel found no listed animals on site. The site does provide some limited habitat for small, mammals and birds. The site shows past signs of greater functional capability. The site is surrounded by either single family homes or roadway. In addition, the density of exotics is extremely limiting. A listed species study was conducted and attached.

This project site is not in the consultation panther zone and there are no known eagle nests nearby. This wildlife survey found no listed animal species.

Black bears are known to inhabit the neighboring areas. During the Site Development Plan process a Black Bear Management Plan may be required. This management plan would focus on lowering Black bear interaction. Also, during the Environmental Resource Permit process this project will be reviewed by the appropriate regulatory agencies.

This project meets the Objective of CCME Objective 7.1.

The area proposed to be impacted consists of lower grade habitat. Brazilian pepper dominates the midstory. No listed species should be impacted by this development.

CCME OBJECTIVE 7.1: Direct incompatible land uses away from listed animal species and their habitats. (The County relies on the listing process of State and Federal agencies to identify species that require special protection because of their endangered, threatened, or species of special concern status. Listed animal species are those species that the Florida Fish and Wildlife Conservation Commission has designated as endangered,

ii) Provide Listed Plants identified in LDC Section 3.04.03

See Attached Vegetation List / FLUCCS Code Map

iii) Wildlife Management Plans in accordance with LDC Section 3.04.00

See Attached Listed Species Study, Black bear management plan may be required at the time of SDP.

C) Native Vegetation Preservation

i) For Sites or Portions of Sites Cleared of Native Vegetation or in Agricultural Use:

Not Applicable

ii) Identify on a current aerial the acreage, location and community types of all upland and wetland habitats on the project site, according to the FLUCFCS system and provide a legend for each of the FLUCFCS codes identified. Aerials and overlay information must be legible at the scale provided. Provide calculations for the acreage of native vegetation required to be retained on site. Include the above referenced calculations and aerials on the SDP or PPL. In a separate report, demonstrate how the preserve criteria pursuant to LDC section 3.05.07 have been met.

Location Maps / Aerials

(LDC10.02.3.A.2.m)

Aerials and location maps have been provided.

Power Lodge consists of approximately 1.38 acres and is located in Section 29, Township 50, Range 26, Collier County. This parcel is located at a very busy roadway (US 41) Tamiami Trail. The property is bordered by Tamiami Trail (US 41) along its eastern boundary, an FPL easement along its western boundary and commercial building along its southern boundaries. This project consists of two parcels Lots 28 and 27 Myrtle Groves Acres. Lot # 28 is entirely cleared and developed with a commercial structure and a parking lot. Lot # 27 is fully vegetated predominately with exotic vegetation. Lot # 27 is approximately 0.69 acres in size.

See Item # 1 - Location Map

The dominant forest type on this parcel (lot #27) site consists of Melaleuca, Ear leaf Acacia, Java plum, Brazilian pepper with some scattered Slash pine as canopy trees. The midstory consists of Brazilian pepper, cabbage palms and ear leaf acacia. The site has been affected by an altered hydrological regime and urbanization. The ground cover

consists of heavy leaf litter with some vines. Exotics such as Brazilian pepper limits movement in some areas. There is also litter scattered throughout the site.

See Attached Location Maps, Vegetation Maps / FLUCCS Maps

Native Vegetation Calculation
(LDC3.05.07.A.)

3.05.07 Preservation Standards

The entire site would not be considered native habitat. The project has a parcel which is 0.69 acres in size that is vegetated primarily with exotic plants. The total acreage of this project consists of 1.38 acres. We believe that this project it will not meet the definition as native vegetation.

The term **native vegetation** is further defined as a vegetative community having 25 percent or more canopy coverage or highest existing vegetative strata of native plant species. In the absence of other native strata, herbaceous vegetation not typically associated with the re-growth of native vegetative communities, commonly known as weeds, shall not be considered **native vegetation** for the purpose of preservation.

All that said, if this project was required to preserve 10 % that would be approximately 0.06 acres. If the project was to save an area approximately 30 feet by 100 feet and planted it would meet the preservation requirement.

This will be consistent with Goal 6 of Collier County GMP's Objective 6.1 Protect native communities through the application of minimum preservation requirements.

Clearly identify the location of all preserves:

The preserve area has been identified on the Exhibit Master plan.

Soil Ground Water Sampling

Natural Site

RESUME

RESUME

Marco A. Espinar
3211 68th St SW
Naples, FL 34105

Bilingual: English & Spanish
Office: 239-263-2687
Home 239-263-2747

EDUCATION

Cardinal Mooney High School Sarasota, Florida	Diploma	1980
Manatee Junior College Bradenton, Florida	AA Degree Biology	1982
University of South Florida Tampa, Florida	BS Degree Biology	1990

Completed USF Cooperative Education Program April 1988

USF Undergraduate Research

- USF 1985 Apalachicola Archaeological Expedition & Research
- Lab Coordinator of Fauna Identification from Archeological Sites
- Studies of Seagrass Beds (*Thalassia testudinum*) in Upper Tampa Bay, Florida
- Growth Rates of Marine Algae (*Gracilaria tikvahiae*, *G. verrucosa*, *G. debilis*)
Port Manatee, Florida

EMPLOYMENT HISTORY & EXPERIENCE

Collier Environmental Consultants Inc.
Naples, Florida 2/96 - Present

Owner & Environmental Planning /
Biologist

Environmental Permitting, Planning
Vegetation Inventory
Mitigation & Monitoring Plans
Threatened and Endangered Species Survey
Licensed Agent Gopher Tortoise Permitting,
Testing, Relocation

Exotic Plant Removal / Poisoning
Mitigation Plantings
Jurisdictional Determination
Environmental Impact Statements
Red Cockaded Woodpecker Survey
UMAM Analysis

BP- Natural Resource Advisor -

Deepwater Horizon MS Canyon 252 Oil Spill
Gulfport, Mississippi - Dauphin Island, Alabama - Pensacola, Florida

Turrell & Associates, Inc.

Naples, Florida 2/94 - 12/95

Senior Environmental Planner

Environmental Permitting, Planning
Threatened and Endangered Species Survey
Environmental Impact Statements

Supervision of Staff
Review Staff Reports

South Florida Water Management District

Fort Myers, Florida 2/93 - 8/93

Environmental Analyst

Dredge & Fill Permit Review
Surface Water Permit Review

Collier County Government, Development Services

Naples, Florida 10/90 - 2/93

Environmental Specialist II

Site Development Plan Compliance
Planned Unit Development Compliance
Site Drainage Inspections

Landscape Inspections
Environmental Enforcement

Southwest Florida Water Management District

Tampa, Florida 9/87 - 10/90

Field Services Technician

As-Built Inspections of Storm Water System - Engineering, Survey
Surface and Ground Water Permit Compliance
Well Construction & Abandonment Inspections

Southwest Florida Water Management District

Brooksville, Florida 1/86 - 9/87

(CO-OP) Environmental Scientists 1

Wetland Vegetation Studies At Major Well Fields
Water Quality Sampling & Testing

PROFESSIONAL ASSOCIATIONS

Southwest Florida Association of Environmental Professionals, Member
Elected to very First Governing Board and served 2 terms, served on founding
association - Bylaws Committee

Appointed by the Board of County Commissioners and Served on the Collier County
Environmental Advisory Board

Appointed by the Board of County Commissioners and Currently Serving on the
Development Services Advisory Committee

Currently Serving on the Land Development Code Sub-Committee

Appointed by the Board of County Commissioners and Served on Conservation Collier Land Acquisition Advisory Committee 6 years

Served as Chairman of the Conservation Collier Lands Evaluation and Management Sub-Committee,

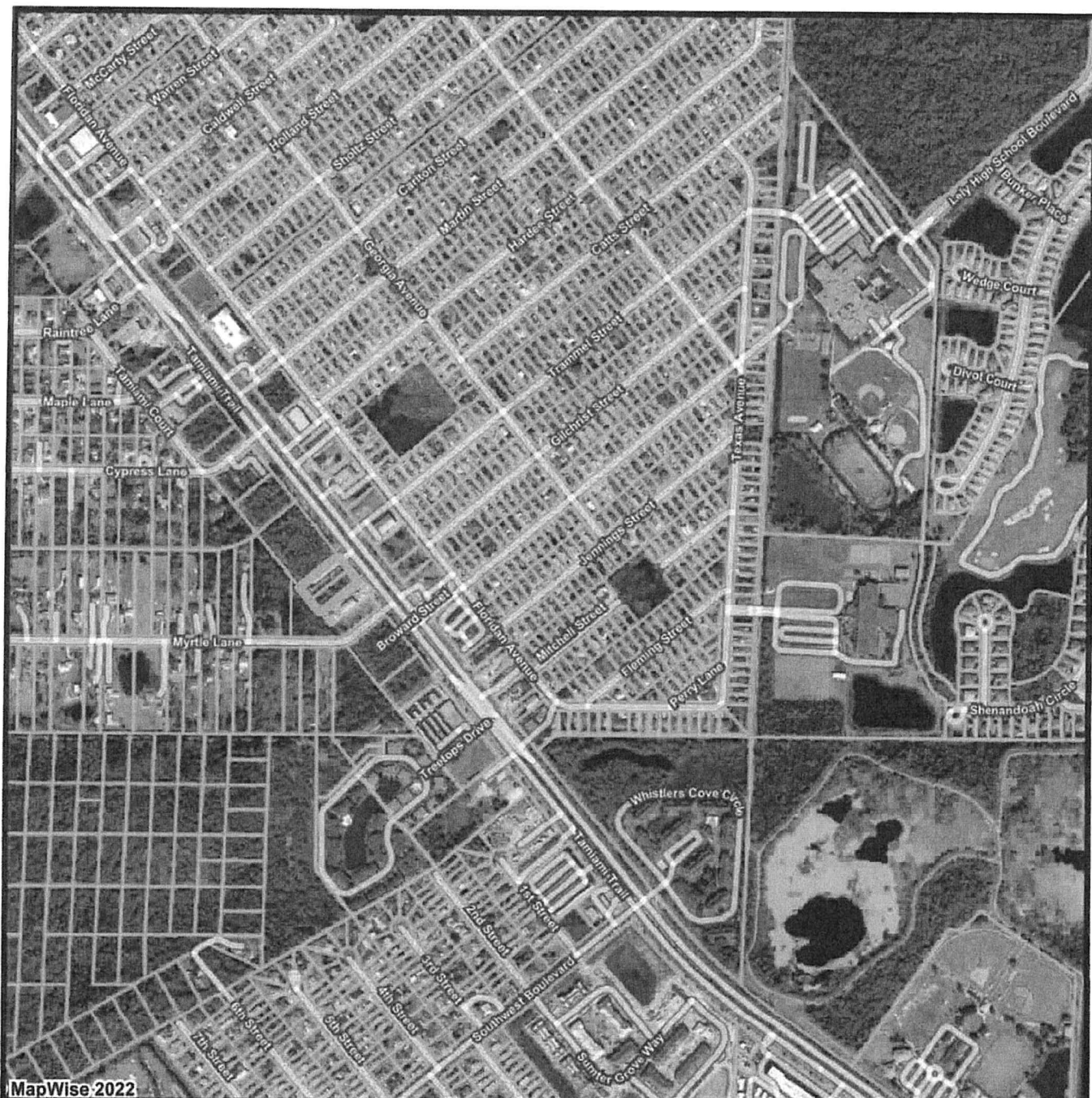
Awarded for Ten (10) years of my Voluntary Service to Collier County By the Board of County Commissioners - January 2010

Awarded Outstanding Advisory Board Member Award - February 2009 by Collier County Board of County Commissioners

Gopher Tortoise Management and Mitigation Professional Training Program
Successful Completion 9/01

REFERENCES UPON REQUEST

LOCATION



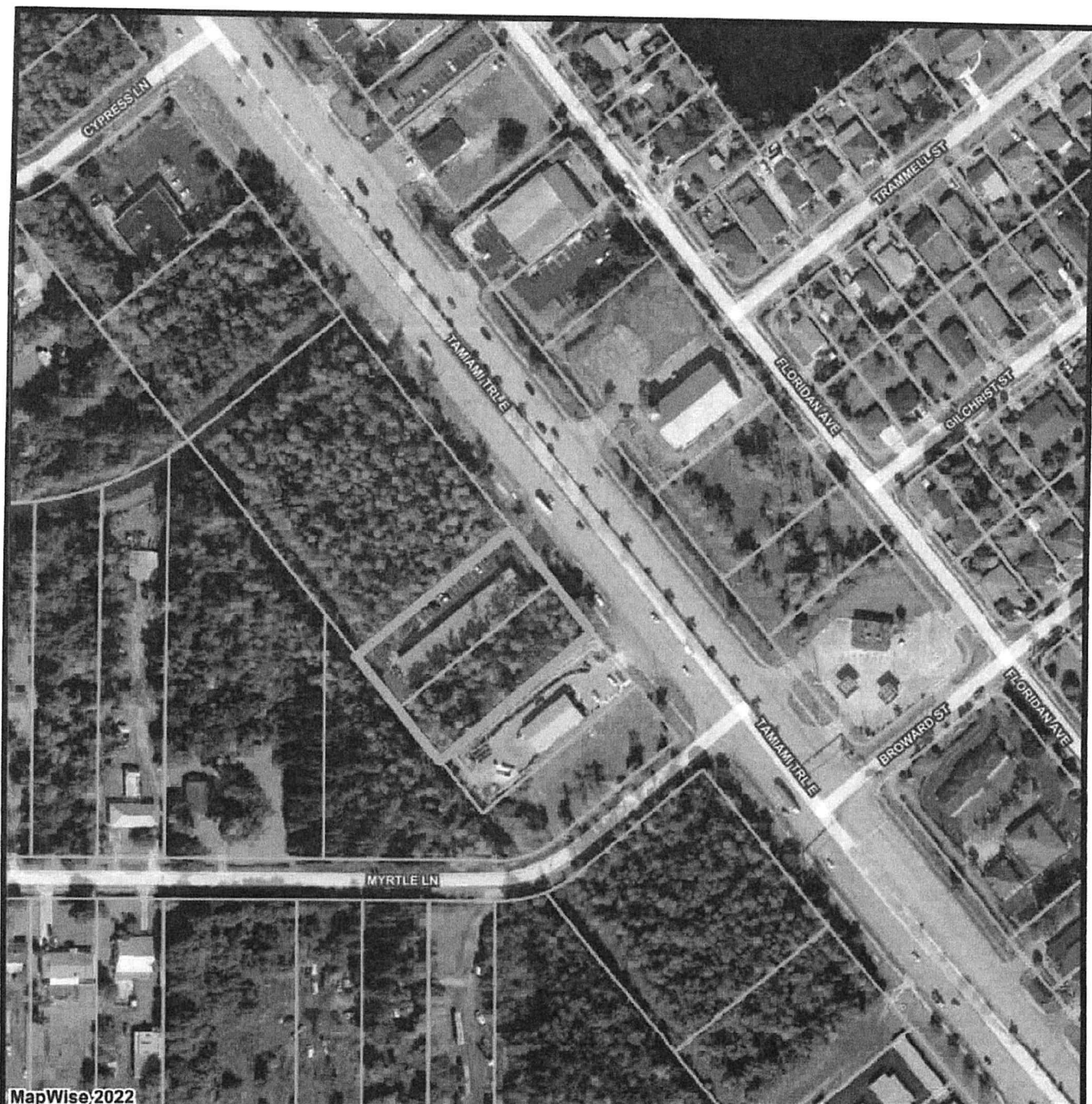
LOCATION

- Labels Drawing
- Points Drawing
- Lines Drawing
- Polygons Drawing
- Selected Custom Parcels
- Streets OSM Hybrid
- County Boundaries
- Parcel Outlines



0 480 960 1440 ft

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MapWise, 2022

LOCATION

- Labels Drawing
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0 120 240 360 ft

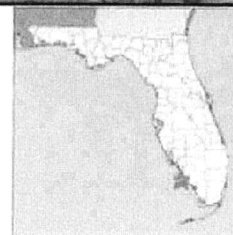
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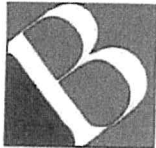
LOCATION

-  Labels Drawing
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-  Streets MapWise
-  County Boundaries
-  Parcel Outlines



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**BENCHMARK
LAND SERVICES, INC.**

1807 J. & C. Boulevard
Naples, Florida 34109
L.R. # 7559
Tel. 239-591-0778
Fax. 239-591-1195
www.benchmarklandservices.com

ONE LOT BOUNDARY SURVEY

Property Address:
11330 Tamiami Trail E
Naples, FL 34113

Carried To:
Linda Rick

Flood Zone Information:
Community Number: 120057
Panel: 0603 Sulfur H
Effective Date: 03/16/2012
Flood Zone: AE BFE: 7' N.A.V.D. 1988

NO OTHER PERSON OR ENTITY MAY RELY ON THIS SURVEY.

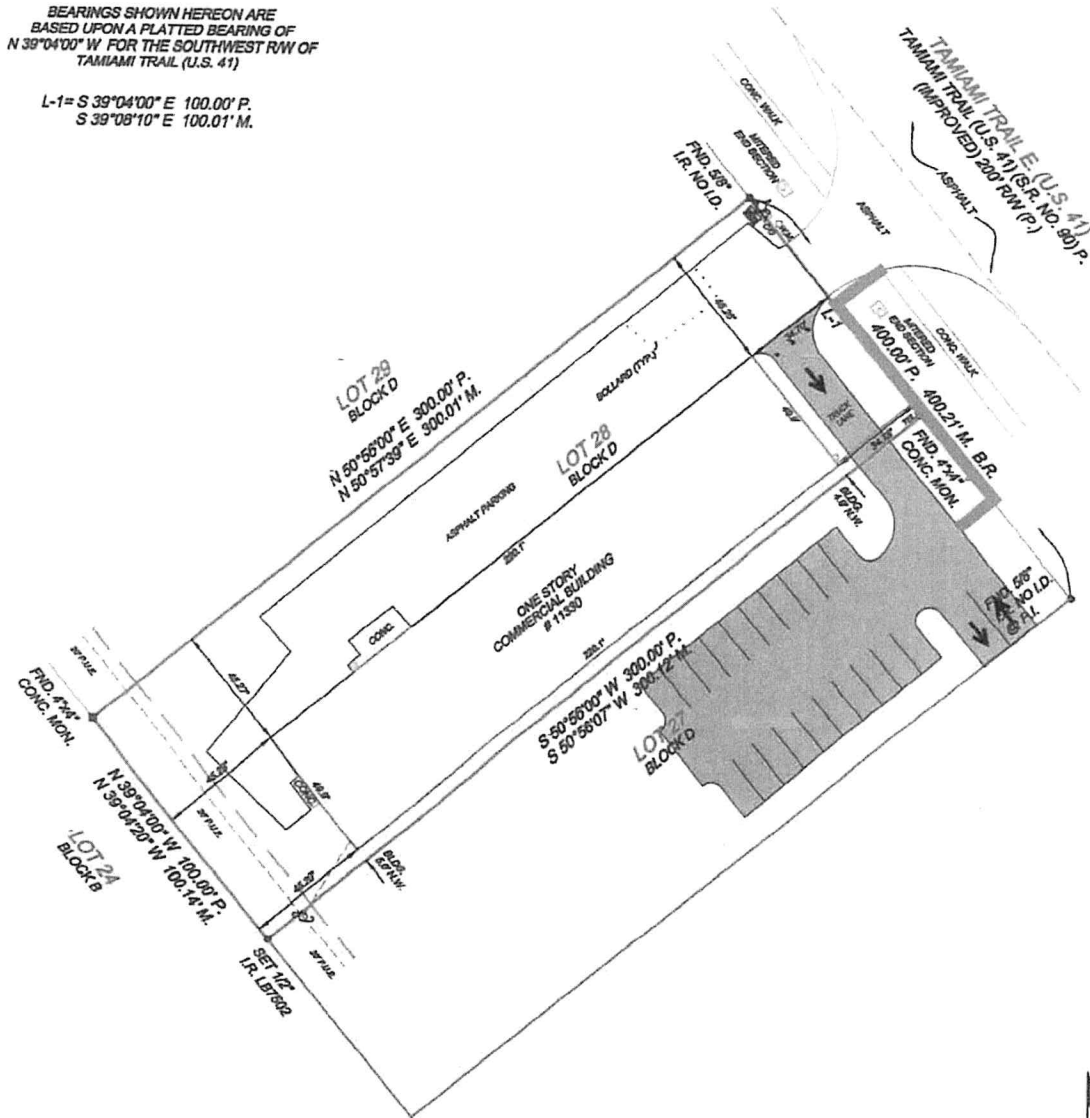
Legal Description As Furnished:

Lot 28, Block D, MYRTLE COVE ACRES, UNIT NO. 1, according to the plat thereof as recorded in Plat Book 3, Page (s) 38, of the Public Records of Collier County, Florida.

DATE OF SURVEY	DRAWN BY
03/12/2019	E.S.
COMPLETION DATE	CHECKED BY
03/14/2019	E.S.

BEARINGS SHOWN HEREON ARE
BASED UPON A PLATTED BEARING OF
N 39°04'00" W FOR THE SOUTHWEST R/W OF
TAMIAMI TRAIL (U.S. 41)

L-1= S 39°04'00" E 100.00' P.
S 39°08'10" E 100.01' M.



1. LEGAL DESCRIPTION PROVIDED BY OTHERS. NO EXAMINATION OF TITLE MADE BY SURVEYOR. THE LINES SHOWN HEREON WERE NOT
ABSTRACTED FOR EASEMENTS OR OTHER RECORDED ENCUMBRANCES NOT SHOWN ON THE PLAT.
2. THIS CERTIFICATION IS ONLY FOR THE LANDS DESCRIBED. IT IS NOT A CERTIFICATION OF TITLE, JUDICIAL EASEMENTS OR FREEDOM FROM
ENCUMBRANCES, EASEMENTS, OR RIGHTS OF WAY.
3. UNDERGROUND PORTIONS OF FOOTINGS, FOUNDATIONS OR OTHER ENCUMBRANCES WERE NOT LOCATED. WALL TIES ARE TO THE FACE
OF THE WALLS AND ARE NOT TO BE USED TO RECONSTRUCT BOUNDARY LINES.
4. NOT VALID WITHOUT THE SIGNATURE & ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ONLY VISIBLE
ENCUMBRANCES LOCATED.
5. THIS SURVEY IS INTENDED FOR USE BY THOSE TO WHOM IT IS CERTIFIED.
6. ONLY ENCUMBRANCES SHOWN WERE LOCATED. FENCE OWNERSHIP NOT DETERMINED.
7. OWNERSHIP ARE IN FEET AND DECIMALS THEREOF. NO EFFORT WAS MADE TO PROVE PLAT BOUNDARIES.
8. FENCES, SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS, AND RIGHT-OF-WAY OF RECORDS.
9. HAZARD LOCATION OF EASEMENTS OR RIGHTS-OF-WAY OF RECORDS, OTHER THAN THOSE ON RECORDED PLATS, IS REQUIRED. THIS
INFORMATION MUST BE FURNISHED TO THE SURVEYOR AND MAPPER. PER FLORIDA STATUTE §4-152 (2)(b) OF THE FLORIDA
ADMINISTRATIVE CODE.
10. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT
WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
11. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO VERIFY FLOOD ZONE INFORMATION AND BUILDING RESTRICTIONS
PRIOR TO ANY CONSTRUCTION.
12. ELEVATIONS SHOWN HEREON ARE BASED UPON NAVD 83.

S.A. SURVEYOR'S REFERENCE	L.R. HIGH PPS	P.L. POINT OF INTERSECTION	S.E. UTILITY ENCUMBRANCE
C.A.T. CABLE TIE	A.C. ADDRESS EASEMENT	P.L.P. PROFESSIONAL LAND SURVEYOR	W.E. WATER EASEMENT
C.A.T. CABLE TIE	B.D. BOUNDARY	P.T. POINT OF TANGENCY	P.F. POWER FENCE
C.L. COUNTY UTILITY CENTER	L.C. LOT	P.P. POINT OF BEGINNING	P.C. PUBLIC UTILITY CENTER
C.S. CORNER EASEMENT	L.C. LOT	P.P. POINT OF BEGINNING	P.C. PUBLIC UTILITY CENTER
C.H. CHAIN HOLE	L.C. LOT	P.P. POINT OF BEGINNING	P.C. PUBLIC UTILITY CENTER
C.E. CEMENT EASEMENT	L.C. LOT	P.P. POINT OF BEGINNING	P.C. PUBLIC UTILITY CENTER
C.E. CEMENT EASEMENT	L.C. LOT	P.P. POINT OF BEGINNING	P.C. PUBLIC UTILITY CENTER
C.E. CEMENT EASEMENT	L.C. LOT	P.P. POINT OF BEGINNING	P.C. PUBLIC UTILITY CENTER
C.E. CEMENT EASEMENT	L.C. LOT	P.P. POINT OF BEGINNING	P.C. PUBLIC UTILITY CENTER

POINTS OF INTEREST:

I hereby certify that a Survey of the herein described
property was made under my direction per Standards of
Practice as per Chapter 54-17.053, F.A.C. & pursuant to
section 472.027, Florida Statutes.

Kenneth Sarrino 03/14/2019
KENNETH SARRINO
Professional Surveyor & Mapper
PSM No. 6348 State of Florida

1 inch = 40' ft.
GRAPHIC SCALE
0 20 40

EXISTING ELEVATION	POLE	BY	S.A. SURVEYOR'S REFERENCE
IR	CONCRETE	W	WATER VALVE
CONCRETE ELEVATION	CONCRETE	W	WATER VALVE
CONCRETE ELEVATION	CONCRETE	W	WATER VALVE

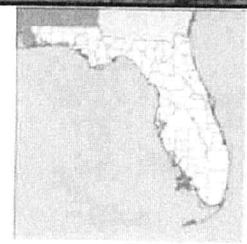
FLUCCS MAP / VEGETATION INVENTORY



MapWise 2022

FLUCCS MAP

- Labels Drawing
- Points Drawing
- Lines Drawing
- Polygons Drawing
- Selected Custom Parcels
- Streets MapWise
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FLUCCS CODE AND VEGETATION INVENTORY

FLUCCS CODE (Description)

Common Name

Scientific Name

Indicator Status

140 - Commercial / Office

439 - Mixed Exotic Hardwoods

This parcel has a few native trees such as Slash pines, cabbage palms and a few cypresses. The majority of the site is vegetated with exotics such as ear leaf acacia, java plum and Brazilian pepper. There is little ground cover due to heavy leaf litter.

<u>Common Name</u>	<u>Scientific Name</u>	<u>Indicator Status</u>	<u>Dominance/Stratum</u>
Slash pine	<i>Pinus elliotti</i>	FACW	Cp,O
Cypress	<i>Taxodium spp.</i>	OBL	M,O
Cabbage palm	<i>Sabal palmetto</i>	FAC	M,D
Ear leaf acacia	<i>Acacia auriculiformis</i>	Exotic	M,D
java plum	<i>Syzygium cumini</i>	Exotic	Cp,M,C
Brazilian pepper	<i>Schinus terebinthifolius</i>	Exotic	M,D
Melaleuca	<i>Melaleuca quinquenervia</i>	Exotic	Cp,O
Guineagrass	<i>Panicum maximum</i>	FAC-	G,C
Bahia grass	<i>Paspalum notatum</i>	UPL	G,C
Wedelia	<i>Wedelia trilobata</i>	Exotic	G,O
Wild coffee	<i>Psychotria nervosa</i>	FAC	G,O
Laurel oak	<i>Quercus laurifolia</i>	FACW	Cp,O
Strangler fig	<i>Ficus aurea</i>	FAC	M,O
Myrsine	<i>Myrsine floridana</i>	FAC	M,C / G,C
Lantana	<i>Lantana camara</i>	FACU	G,O
Sandspur	<i>Cenchrus echinatus</i>	FAC	G,C
Beggars ticks	<i>Bidens alba</i>	FACW	G,O
Air potato	<i>Dioscorea bulbifera</i>	Exotic	M,O
Chocolate weed	<i>Melochia corchorifolia</i>	FAC	G,O
Swamp fern	<i>Blechnum serrulatum</i>	FACW+	G,D
sawgrass	<i>Cladium jamaicense</i>	OBL	G,O
nut Sedge	<i>Cyperus ligularis</i>	FACW	G,O
Ragweed	<i>Ambrosia artemisiifolia</i>	FACU	G,C
Lygodium	<i>Lygodium microphyllum</i>	Exotic	G,O
Broom sedge	<i>Andropogon virginicus</i>	FAC-	G,C
Whitehead broom	<i>Spermacoce verticillata</i>	FAC	G,O
Dog fennel	<i>Eupatorium capillifolium</i>	FACW	G,O
Grape vine	<i>Vitis rotundifolia</i>	FAC	G,O
Virginia creeper	<i>Ampelopsis quinquefolia</i>	FAC	G,O
Cat-briar	<i>Smilax spp.</i>	FAC	G,C

ABBREVIATIONS –

**Canopy (Cp), Midstory (M), Ground Cover (G)
Dominant (D), Common (C), Occasional (O)**

INDICATOR STATUS - Obligate (OBL), Facultative wet plants (FACW), Facultative plants (FAC), Upland (UPL)

OUTSIDE PROJECT FOOTPRINT

140- Commercial/Office

8142- US 41- Divided Roadway

SITE PLAN



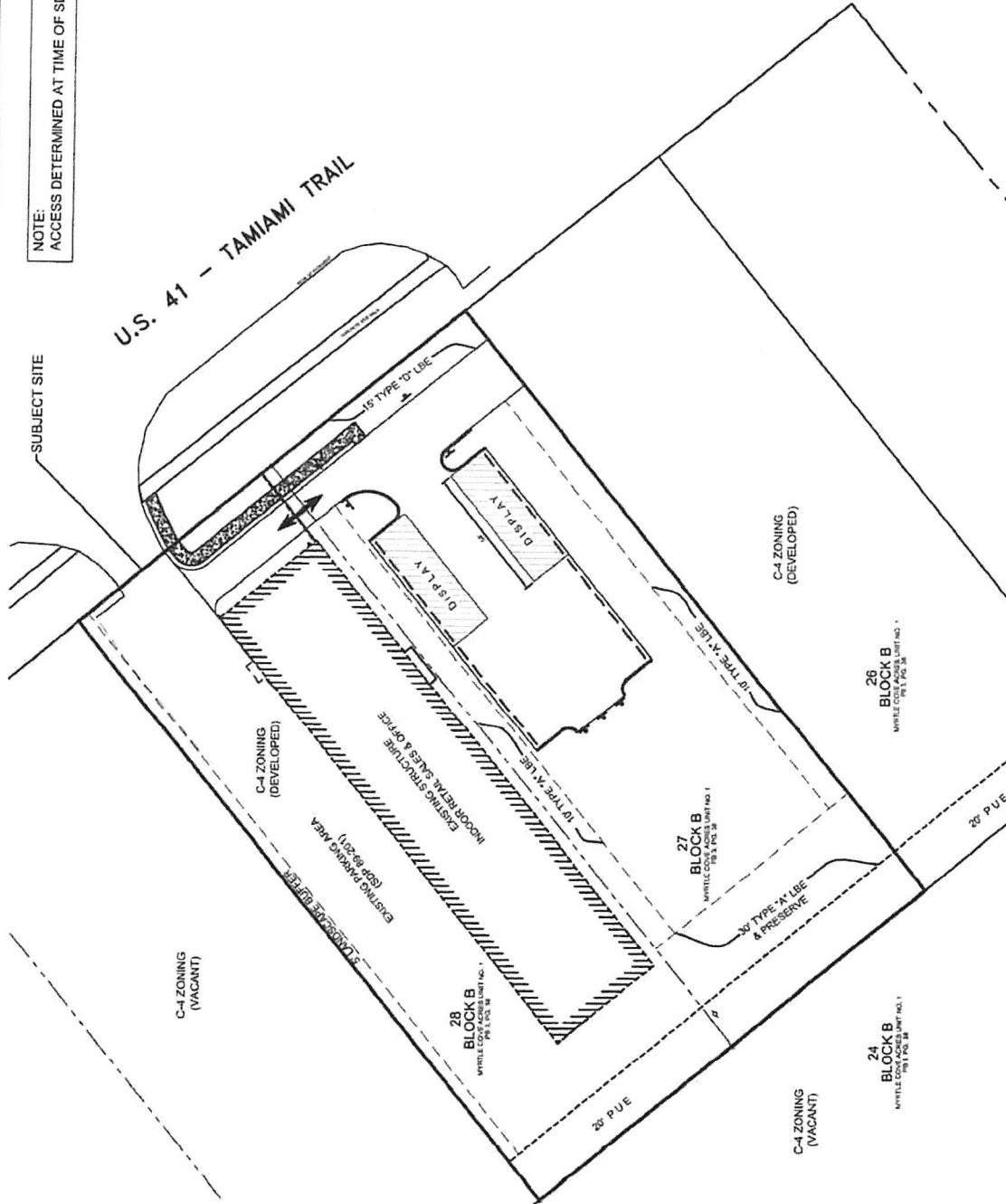
SCALE 1"=200'

SITE INFORMATION:
TOTAL AREA: 1.38 ACRES
INDOOR RETAIL SALES AND ASSOCIATED OFFICE:
11,000 SQUARE FEET
OUTDOOR DISPLAY AREA: 2,000 SQUARE FEET
EXISTING ZONING: C-4

NATIVE VEGETATION PRESERVED:
MIN. REQUIRED PROVIDED (10%) 3,000 SF

NOTE:
ACCESS DETERMINED AT TIME OF SDP

U.S. 41 - TAMiami TRAIL



990 Encino Way
Naples, FL 34110
Phone: (239) 254-2000
Florida Certificate of
Authorization No. 172

DATE	BY	REVISION
3/2022	AS	AS NOTED
3/2022	AS	AS NOTED
3/2022	AS	AS NOTED

Power Lodge
CONDITIONAL USE

DATE	REVISION
3/2022	AS NOTED
3/2022	AS NOTED
3/2022	AS NOTED

DATE	PROJECT NO.	PROJECT NAME
2021.120	2021.120	CONCEPT PLAN

DATE	PROJECT NO.	PROJECT NAME
2021.120	2021.120	CONCEPT PLAN

CONCEPTUAL SITE PLAN

1 of 1

SOILS

COLLIER COUNTY SOIL LEGEND
REVISED 1/90 H. YAMATAKI

HYDRIC

H	2	HOLOPAW FS, LIMESTONE SUBSTRATUM
H	3	MALABAR FS.
H	4	CHOBEE, LIMESTONE SUBSTRATUM AND DANIA MUCKS DEPRESSIONAL
H	6	RIVIERA, LIMESTONE SUBSTRATUM-COPELAND FS
	7	IMMOKALEE FS
	8	MYAKKA FS
	10	OLDSMAR FS, LIMESTONE SUBSTRATUM
	11	HALLANDALE FS
H	14	PINEDA FS, LIMESTONE SUBSTRATUM
	15	POMELLO FS
	16	OLDSMAR FS
H	17	BASINGER FS
H	18	RIVIERA FS, LIMESTONE SUBSTRATUM
	20	FT. DRUM AND MALABAR HIGH FS
	21	BOCA FS
H	22	CHOBEE, WINDER AND GATOR SOILS, DEPRESSIONAL
H	23	HOLOPAW AND OKEELANTA SOILS DEPRESSIONAL
H	25	BOCA, RIVIERA, LIMESTONE SUBSTRATUM AND COPELAND FS DEPRESSIONAL
H	27	HOLOPAW FS
H	28	PINEDA AND RIVIERA FS
	29	WABASSO FS
H	31	HILOLO LIMESTONE SUBSTRATUM, JUPITER AND MARGATE SOILS
	32	URBAN LAND
	33	URBAN LAND HOLOPAW BASINGER COMPLEX
→	34	URBAN LAND IMMOKALEE OLDSMAR LIMESTONE SUBSTRATUM COMPLEX
	35	URBAN LAND AQUENTS COMPLEX ORGANIC SUBSTRATUM
	36	UDORTHENTS SHAPED
	37	TUSCAWILLA FS
	38	URBAN LAND MATLACHA LIMESTONE SUBSTRATUM BOCA COMPLEX
	39	SATELLITE FS
H	40	DURBIN AND WULFERT MUCKS
	41	URBAN LAND SATELLITE COMPLEX
	42	CANAVERAL BEACHES ASSOCIATION
H	43	WINDER, RIVIERA, LIMESTONE SUBSTRATUM AND CHOBEE SOILS DEPRESSIONAL
	45	PAOLA FS (1-8 percent slopes)
H	48	PENNSUCCO SOIL (marl prairie)
H	49	HALLANDALE AND BOCA FS (slough)
H	50	OCHOPEE FSL, PRAIRIE (marl)
H	51	OCHOPEE FSL
H	52	KESSON MUCK FREQUENTLY FLOODED
H	53	ESTERO AND PECKISH SOILS FREQUENTLY FLOODED
H	54	JUPITER BOCA COMPLEX
H	56	BASINGER FS, OCCASIONALLY FLOODED



MapWise 2022

SOILS

- Labels Drawing
- Points Drawing
- Lines Drawing
- Polygons Drawing
- Selected Custom Parcels
- Streets MapWise
- County Boundaries
- Parcel Outlines
- Soils Boundaries



0 31 62 93 ft

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POWER LODGE

LISTED SPECIES SURVEY

Collier County, Florida

MARCH 2022

Prepared By:

**Collier Environmental Consultants, Inc.
3211 68th Street SW
Naples, Florida 34105
(239) 263 - 2687**

I Introduction / Purpose

This report is an account of a Listed Species survey recently performed on a 1.38 acre tract called Power Lodge . Required to meet county review requirements its purpose is to identify and describe key habitats and report any listed species using the site that would be at risk due to possible future development actions on the site. This examination took place during February 16 - 22, 2022.

II Site Description

Power Lodge consists of approximately 1.38 acres and is located in Section 29, Township 50, Range 26, Collier County. This parcel is located at a very busy roadway (US 41) Tamiami Trail. The property is bordered by Tamiami Trail (US 41) along its eastern boundary, an FPL easement along its western boundary and commercial building along its southern boundaries. This project consists of two parcels Lots #28 and #27 Myrtle Groves Acres. Lot # 28 is entirely cleared and developed with a commercial structure and a parking lot. Lot # 27 is fully vegetated. Lot # 27 consists of approximately 0.69 acres in size.

See Item # 1 - Location Map

The dominant forest type on this project (lot #27) site consists of a Melaleuca, Ear leaf Acacia, Brazilian pepper with some scattered Slash pine as canopy trees. The midstory consists of Brazilian pepper, cabbage palms, myrsine and ear leaf acacia. The site has been affected by an altered hydrological regime and urbanization. The ground cover consists of heavy leaf litter with some vines. Exotics such as Brazilian pepper limits movement in some areas. There is some scattered liter throughout the site.

In total the site consists of approximately 1.38 acres. The following is how the acreage figures breakdown.

See Item #2 - FLUCCS Map

FLUCCS	HABITAT	ACREAGE
140	Commercial Building	0.69 acres
439	Mixed Exotic Hardwoods	0.69 acres

III Listed Species Survey

The required survey for a Listed Species Survey calls for a survey covering 100 % of the site, at prescribed transect distances per site acreage. Such a survey was attempted in

February 16 - 22, 2022. Established transects oriented north - south and east - west and superimposed on an aerial map of the site cannot be conducted. These are individual single family lots. Some of these parcels have homes with fencing. Instead meandering transects and stationary observations were ground - located and walked by compass bearing. Early morning (0730 - 1000), mid-day (1100 - 1500) and late-day (1500 - 1800) time periods were chosen to survey these transects. All possible species of plants and animals listed by state and federal agencies were noted. Concurrently, notes for FLUCCS mapping purposes were kept.

IV Results & Discussions

Listed Flora

See Item # 3 - FLUCCS Plant List

Listed Fauna

See Item # 4 - Wildlife Species Observed

Key Species Discussion

Florida Black Bear

No individuals were observed during this survey even though Black bears are known to inhabit the general area. Special attention was given for signs such as scraps, tracks and scat. This mammal has a large home range and is known to inhabit the area. Black bear nuisance calls do show up in this area. An exhibit has been provided.

Bonneted Bat

The Florida bonneted bat is the largest species of bat in Florida. Previously known as the Florida (Wagner's) mastiff bats these bats were reclassified as a separate species unique to Florida. The species can grow to a length of 6.5 inches with a wingspan of 20 inches. This is a flying mammal free to traverse great distances.

Examination of all trees with potential cavities was conducted. The density of Brazilian pepper and other midstory plants may impede flight patterns. No individuals and/or guano were found. This project is not anticipated to negatively impact the species.

Florida Panther

This parcel would be considered in the urban area. The site is not in the Panther Consultation Area.

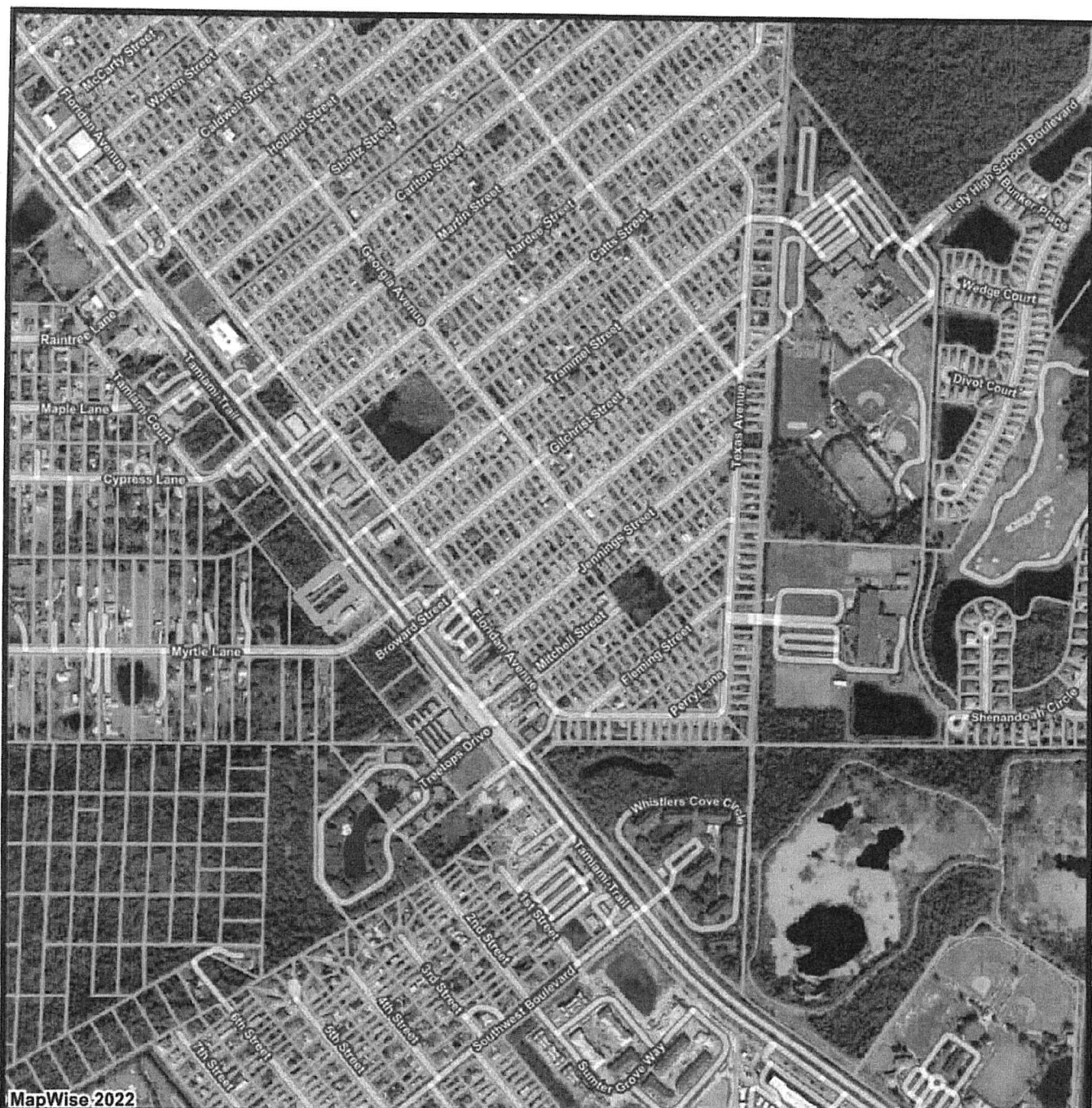
Conclusions

Focused searches were conducted over several days.

This parcel is dominated by a variety of exotic vegetation. The site does have a few scattered native Slash pines. However, the entire site is dominated with Brazilian pepper, java plum, ear leaf acacia and Melaleuca. Old world climbing fern was also identified onsite. This site is very limited as viable habitat for any vertebrates. The site is also bordered by US 41 and commercial buildings and is located on what would be considered urban lands. If utilized by any vertebrates, they would be birds traversing the site and/or small mammals commonly found in urban areas. This study found no listed vertebrates on site.

Threatened, Endangered and Species of Special Concern

<u>Species</u>	<u>Present</u>	<u>Absent</u>
Black bear		x
Florida panther		x
Everglades mink		x
Big Cypress Fox squirrel		x
Indigo snake		x
American alligator		x
Gopher tortoise		x
Gopher Frog		x
Southeastern American kestrel		x
Red-Cockaded woodpecker		x
Florida Scrub Jay		x
Wood stork		x
Snail kite		x
Bald eagle		x
Limpkin		x
osprey		x
White ibis		x
Tricolored heron		x
snowy egret		x
Reddish egret		x
Little blue heron		x



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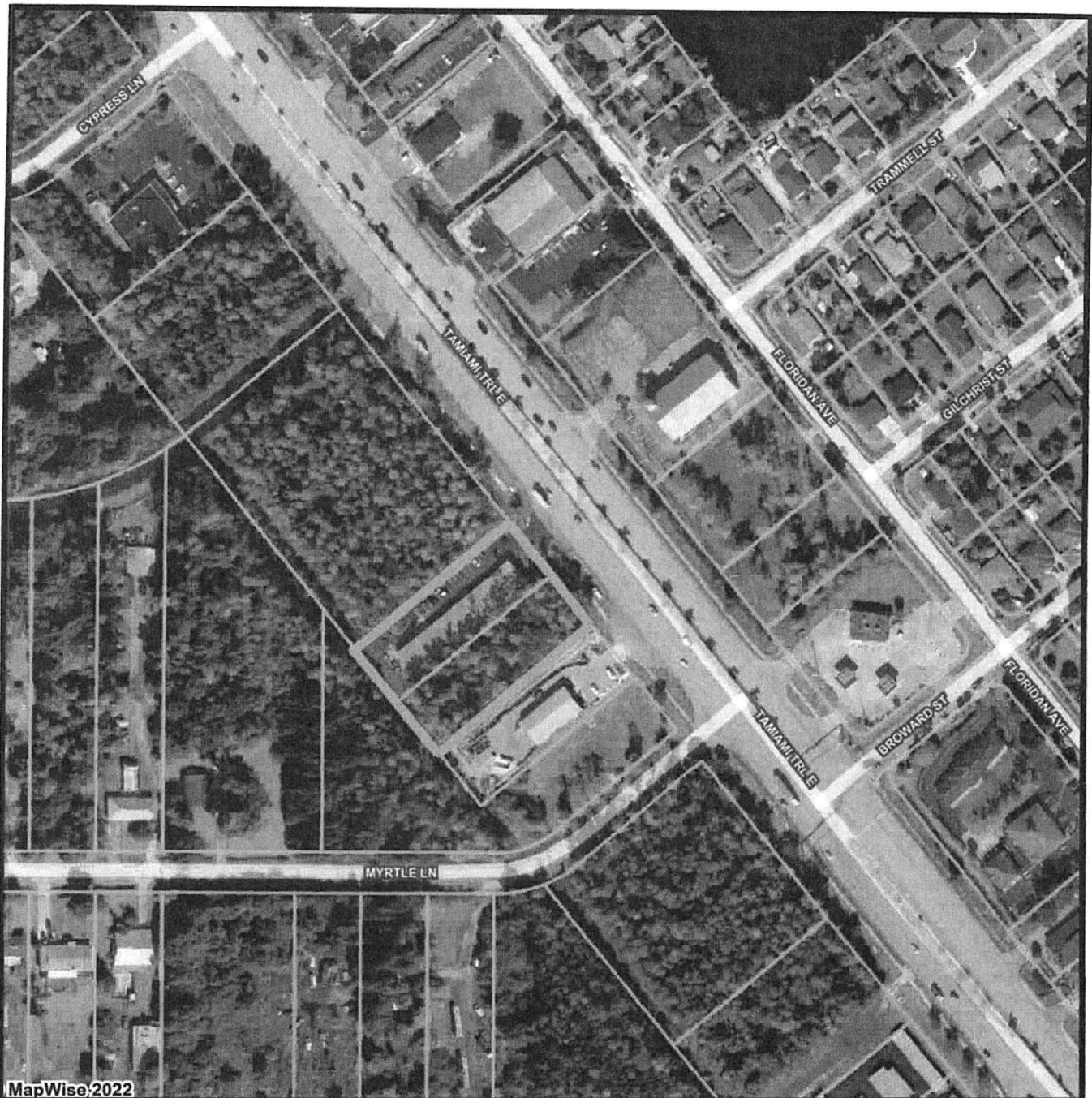
LOCATION

- Labels Drawing
- Points Drawing
- Lines Drawing
- Polygons Drawing
- Selected Custom Parcels
- Streets OSM Hybrid
- County Boundaries
- Parcel Outlines



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FLUCCS CODE AND VEGETATION INVENTORY

FLUCCS CODE (Description)

Common Name Scientific Name Indicator Status

140 - Commercial / Office

439 - Mixed Exotic Hardwoods

This parcel has a few native trees such as Slash pines, cabbage palms and a few cypresses. The majority of the site is vegetated with exotics such as ear leaf acacia, java plum and Brazilian pepper. There is little ground cover due to heavy leaf litter.

<u>Common Name</u>	<u>Scientific Name</u>	<u>Indicator Status</u>	<u>Dominance/Stratum</u>
Slash pine	<i>Pinus elliotti</i>	FACW	Cp,O
Cypress	<i>Taxodium spp.</i>	OBL	M,O
Cabbage palm	<i>Sabal palmetto</i>	FAC	M,D
Ear leaf acacia	<i>Acacia auriculiformis</i>	Exotic	M,D
java plum	<i>Syzygium cumini</i>	Exotic	Cp,M,C
Brazilian pepper	<i>Schinus terebinthifolius</i>	Exotic	M,D
Melaleuca	<i>Melaleuca quinquenervia</i>	Exotic	Cp,O
Guineagrass	<i>Panicum maximum</i>	FAC-	G,C
Bahia grass	<i>Paspalum notatum</i>	UPL	G,C
Wedelia	<i>Wedelia trilobata</i>	Exotic	G,O
Wild coffee	<i>Psychotria nervosa</i>	FAC	G,O
Laurel oak	<i>Quercus laurifolia</i>	FACW	Cp,O
Strangler fig	<i>Ficus aurea</i>	FAC	M,O
Myrsine	<i>Myrsine floridana</i>	FAC	M,C / G,C
Lantana	<i>Lantana camara</i>	FACU	G,O
Sandspur	<i>Cenchrus echinatus</i>	FAC	G,C
Beggars ticks	<i>Bidens alba</i>	FACW	G,O
Air potato	<i>Dioscorea bulbifera</i>	Exotic	M,O
Chocolate weed	<i>Melochia corchorifolia</i>	FAC	G,O
Swamp fern	<i>Blechnum serrulatum</i>	FACW+	G,D
sawgrass	<i>Cladium jamaicense</i>	OBL	G,O
nut Sedge	<i>Cyperus ligularis</i>	FACW	G,O
Ragweed	<i>Ambrosia artemisiifolia</i>	FACU	G,C
Lygodium	<i>Lygodium microphyllum</i>	Exotic	G,O
Broom sedge	<i>Andropogon virginicus</i>	FAC-	G,C
Whitehead broom	<i>Spermacoce verticillata</i>	FAC	G,O
Dog fennel	<i>Eupatorium capillifolium</i>	FACW	G,O
Grape vine	<i>Vitis rotundifolia</i>	FAC	G,O
Virginia creeper	<i>Ampelopsis quinquefolia</i>	FAC	G,O
Cat-briar	<i>Smilax spp.</i>	FAC	G,C

ABBREVIATIONS –

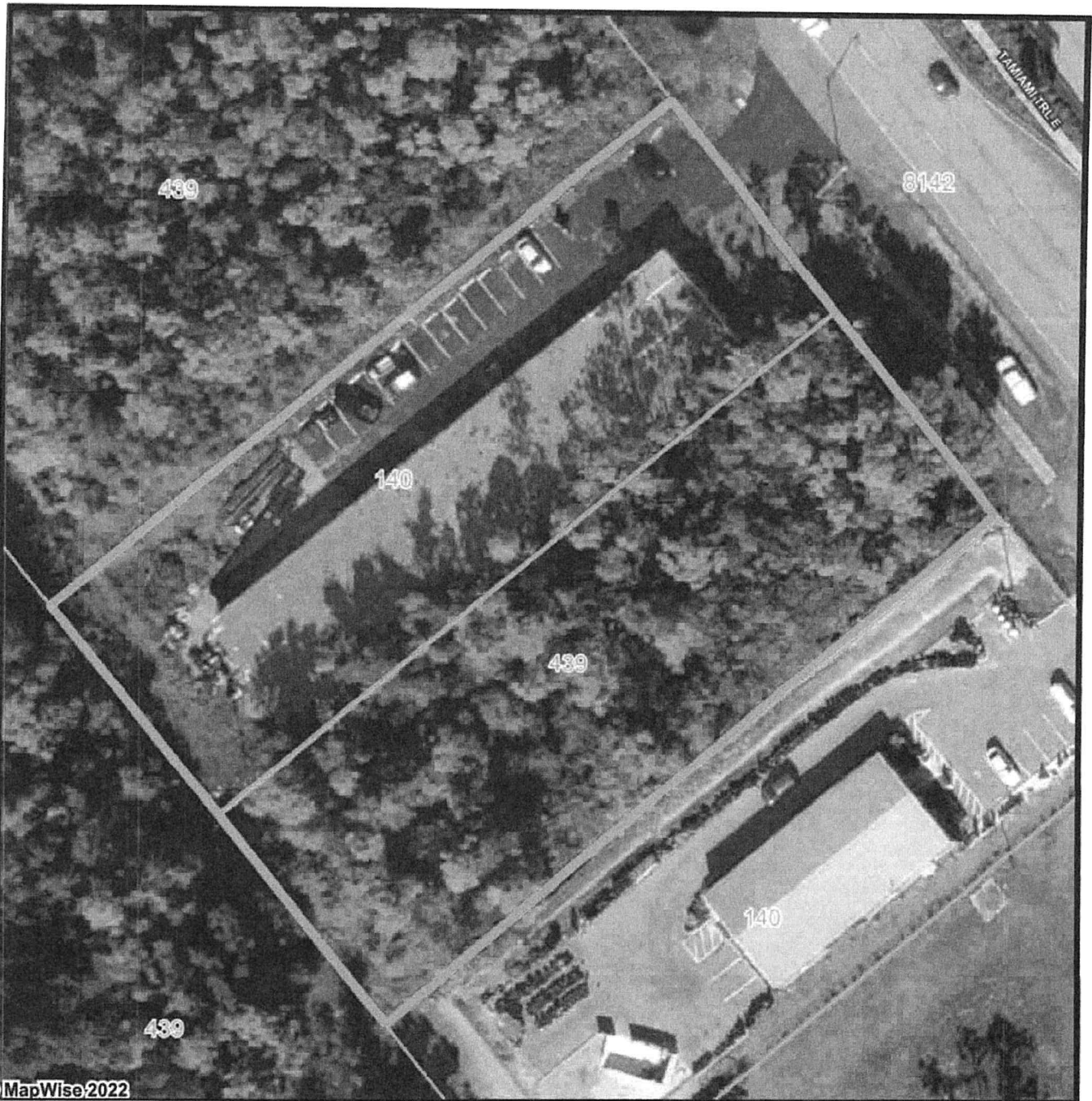
**Canopy (Cp), Midstory (M), Ground Cover (G)
Dominant (D), Common (C), Occasional (O)**

INDICATOR STATUS - Obligate (OBL), Facultative wet plants (FACW), Facultative plants (FAC), Upland (UPL)

OUTSIDE PROJECT FOOTPRINT

140- Commercial/Office

8142- US 41- Divided Roadway



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FLUCCS MAP

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WILDLIFE SPECIES OBSERVED

<u>Common Name</u>	<u>Species</u>	<u>Status</u>
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Amphibian & Reptiles:

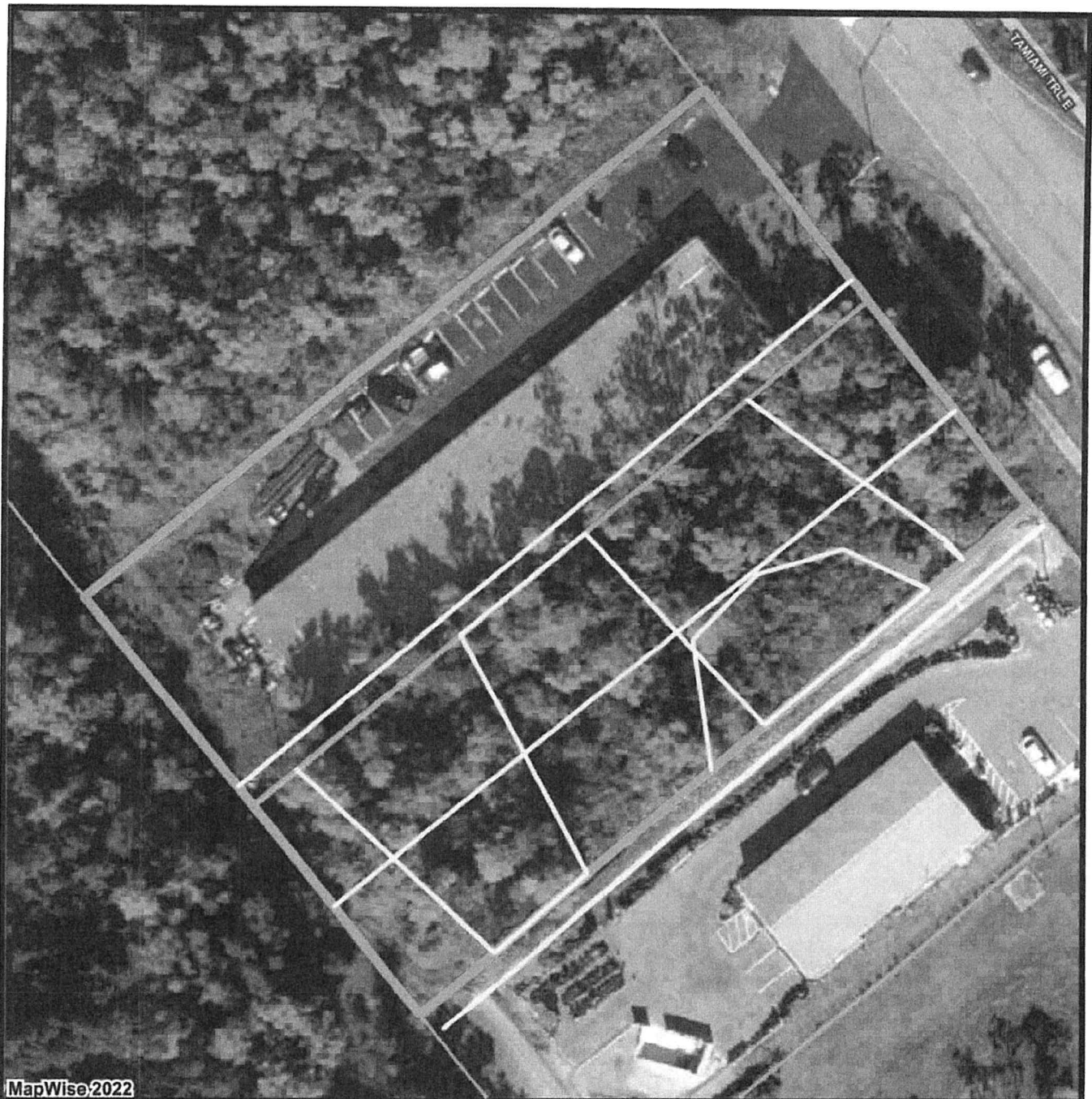
Brown anole	<u>Anolis sagrei</u>	
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Birds:

Dove- mourning	<u>Zenaida macrour</u>	
Bluejay	<u>Cyanocitta cristata</u>	
Northern mockingbird	<u>Mimus polyglottos</u>	
Cardinal	<u>Richmondia cardinalis</u>	
Vulture, turkey	<u>Cathartes aura</u>	
Vulture, Black	<u>Coragyps atratus</u>	
Red bellied woodpecker	<u>Melanerpes carolinus</u>	

Mammals:

Raccoon	<u>Procyon lotor</u>	
Nine-banded armadillo	<u>Dasypus novemcinctu</u>	



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TRANSECTS WALKED

- Labels Drawing
- Points Drawing
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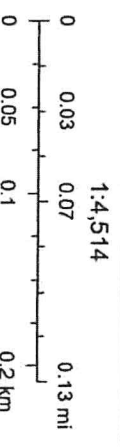
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BLACK BEAR CALLS



3/10/2022, 2:26:17 PM

Black Bear Calls



Florida Fish and Wildlife Conservation Commission-Fish and Wildlife

TRGIS User

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WELL FIELD PROTECTION AREAS

Collier County Well Field Protection Zones 2010

