



Lake Killarney Board Regular Meeting

Agenda

March 6, 2024 @ 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

welcome

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assistance & appeals

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"If a person decides to appeal any decision made by the Board with respect to any matter considered at this hearing, a record of the proceedings is needed to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." (F.S. 286.0105).

please note

Times are projected and subject to change.

1. Call to Order**2. Consent Agenda**

- a. Approve the minutes of the regular meeting, February 7, 2024 1 minute

3. Public Comments (for items not on the agenda): Three minutes allowed for each speaker**4. Public Hearings (Public participation and comment on these matters must be in person.)**

- a. Boathouse/Dock Application (BLDR-2023-0720) 2054 Lake Dr. 10 Minutes

5. Action Items**6. Non-Action Items**

- a. MLK Jr. Park Sinkhole Risk Evaluation 20 Minutes

7. Staff Updates

- a. Orange County Update 5 Minutes

- Storm Pipe Update
- Orange County Lake Killarney Newsletter 2024

- b. Lakes Management 10 Minutes

- Natural Resources Conservation Services Update
- Maintenance & Efforts
- Dock Violation
- Water Quality

Follow-Up Items

- Summary of Work Session

- c. Stormwater Management 10 Minutes

- CIP Update
- Nicolette Pond, Killarney Dr. Pipe Replacement, & Lake Bell Weir Project Timeline
- Lake Front Construction Updates

Follow-Up Items:

- BMP Feasibility Study for Killarney Dr Outfall Consolidation
- Outfall Condition Update
- Exfiltration System Maintenance Agreement Update

8. Board Comments

- | | |
|---|-----------|
| a. Discussion of Public Comments Received | 5 Minutes |
|---|-----------|

9. Upcoming Agenda Items

- | | |
|------------------------------------|-----------|
| a. Upcoming Agenda Items | 5 Minutes |
| b. Summary of Meeting Action Items | 5 Minutes |

10. Adjournment



Lake Killarney Board

agenda item

item type

Consent Agenda

meeting date

March 6, 2024

prepared by

Rene Cranis, City Clerk

approved by**subject**

Approve the minutes of the regular meeting, February 7, 2024

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

1. Minutes 02-07 DRAFT



Lake Killarney Board Regular Meeting Minutes

February 7, 2024 at 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

Present

Carolyn Minear, David L. Dickerson, Ellen Hencken, Jason K. Ellison, Jeanne Wall, Joyce D. Cunningham, William Voecks.

Staff Present

Director of Natural Resources and Sustainability Gloria Eby, Assistant Director of Public Works Don Marcotte; Public Works Engineer Shannon Monahan, Lakes Division Manager Joseph Cordell, Administrative Assistant Victoria Tabor

Also Present

Orange County Senior Environmental Specialist Nidia Volpe and Orange County Lake Killarney Board Members Conrad Necrason and Langdon Stanley.

1. Call to Order

The meeting was called to order at 10:01 a.m.

Motion made by Jeanne Wall to add to the agenda discussion of the National Pollutant Discharge Elimination System (NPDES) Presentation under Staff Updates, seconded by William Voecks. Motion unanimously with a 7-0 vote.

2. Consent Agenda

- a. Approve the minutes of the regular meeting on December 6, 2023

Mrs. Wall noted the addition of language under the Boathouse/Dock Application at 2054 Lake Drive which states "Later clarified that no action was taken on the application to provide more information to the board, and to further clarify that additional information would be provided to the board and that the application was not denied; it was not approved."

Mrs. Wall suggested amending the minutes adding the address of the at-risk vessel (400 Killarney Drive) and the dock violation (1321 Fairview Avenue).

Motion made by Mr. Dickerson to approve the December 6th minutes as noted; seconded by Ms. Cunningham. Motion unanimously with a 7-0 vote.

- b. Approve the minutes of the regular meeting on January 3, 2024

Mrs. Wall suggested amending the minutes by adding the section "Staff Present," add the address of the at-risk vessel (400 Killarney Drive) and the dock violation (1321 Fairview Avenue) at the bottom of Page 3, add the date of the Lake Killarney spill (July

7, 2022) at the end of the first paragraph under Item 6a; and to attach the letter as referenced in the motion just prior to Board Comments.

Motion made by Mr. Ellison to approve the minutes with amendments by Mrs. Wall; seconded by Mr. Dickerson. Motion unanimously with a 7-0 vote.

3. Public Comments (for items not on the agenda):

Robert Kunzweiler, 2000 Lake Drive (on the canal where dredging is underway), said he understood cutting and removal of trees on the bank were not a part of the project. He said trees are being removed above the water line, the bank is being scraped the bank is being rebuilt, which he hopes will be replanted with grass. Mrs. Eby stated that funding for the canal work is specific to sediment removal and that a separate purchase order for bank stabilization and beatification has been created. Staff explained the plans for bank stabilization and revegetation/beautification which was a part of staff's update for today's meeting.

4. Public Hearings

5. Action Items

6. Non-Action Items

a. Orange County Water Quality Reporting Process

Marcia Anderson Clark, Quality Assurance Officer with Orange County Environmental Protection Division (EPD) gave a presentation on the function of their processes for collecting lake water samples as it relates to hold times, analysis, data entry and validation, and reporting. She responded to questions providing additional details on the process and confirmed that it could take up to four months to return the data to the city. As an example, Mrs. Wall stated September data was received in February. Mrs. Eby said this is the industry standard and is acceptable to staff. Ms. Clark added that there is a quicker turnaround time for incidences of bacteria or turbidity sampling such as hurricanes. Mrs. Eby stated her appreciation for EPD to turn-around Lake Killarney bacteria samples so quickly during time of need.

7. Staff Updates

a. Orange County Update

Nidia Volpe reported that the insurance issues relating to Chuck Robinson, contractor for sediment and sandbar removal, have been resolved and the purchase order should be issued soon to begin sandbar removal on Blue Heron. The newsletter has been finalized and will mailed out soon.

Mrs. Wall asked for the status of the stormwater retrofit project on the Orange County side of Lake Killarney, she believes by John Mitchell's house. Ms. Volpe said she will get the status from Public Works and provide an update in the next meeting.

Add-on to the Agenda: National Pollutant Discharge Elimination System (NPDES)

Ms. Monahan gave the background and requirements of this program as a result of the Clean Water Act of 1972 to ensure compliance with state water quality standards. She explained the city's separate sanitary and stormwater sewer systems in contrast with combined sewer systems, where stormwater is discharged to wastewater treatment facilities. She outlined point and non-point pollution sources. She noted that Winter Park is a co-permittee with Orange County which also includes other municipalities located in Orange County. Each city/county is required to submit an annual report to the state in November. She provided details on the components of the report and data for the reporting year, May 2022 to April 2023: 2,814 stormwater sewer inspections, 1,738 pounds of phosphorous and 2,711 pounds of nitrogen removed from street sweeping. Ms. Monahan reported on the public involvement efforts and the Numeric Nutrient Criteria (NNC) reported to the state, i.e. alkalinity, color and E-coli. Discussion followed on NNC and efforts to control nutrients and water quality and inclusion of data on the city's report card. Ms. Monahan responded to additional questions regarding flood control and systems, street sweeping, the tree farm used for hurricane debris, visitors to stormwater page on the city's website (increased significantly), proactive illicit discharge inspections (831 previous year). Mrs. Wall commended staff for their efforts and work.

a. Lakes Management

- Winter Biobase Vegetation Mapping – Survey shows the same amount of aquatic coverage with less volume as is expected in winter.
- At -Risk Vessel, 400 Killarney Drive - Vessel was removed. The dock will be removed at a later date.
- Dock Violation, 1321 Fairview Avenue - Case will be taken to the Code Compliance Board since the owner did not comply with the order issued by the Code Compliance Division to submit a permit for repairs within three weeks. Mrs. Eby said the Code Compliance Board will hear the case and has the ability to assess fines and elaborated on the process.
- Trash removal - 225 gallons of debris and 65 gallons of trash were removed.
- Water quality - Increase in Trophic State Index (TSI) noted due to seasonal increase in phosphorus levels which is likely due to rain. The water quality remains good.
- Telemetry station – Lake level was installed with data being collected every hour and updates given every four hours. This information will be available in real time however requires web-development.
- Natural Resources Conservation Services (NRCS) – Vendor is currently working in the canal (scraping material from under docks where the equipment boom can access), expected to be completed in three weeks. The purchase order for the beautification project related to bank was released and work has begun. The city received Keep America Beautiful grant funds to apply where needed.

Mr. Ellison asked if there is a low-cost solution to reduce the sediment on the slipway near the building behind his boat dock. Mrs. Eby said until the area is cleared, the

amount and type of work needed is unknown; however erosion control netting and sodding has been placed as an interim measure.

b. Stormwater Management

CIP Update

Nicolet Pond, Killarney Drive pipe replacement, Lake Bell Weir projects timeline

- Nicolet Pond design is complete and staff is applying for the general permit. Mr. Marcotte provide the history and discussions with Orange County regarding the need to fix the drainage problem on Minnesota Avenue and discussion followed.
- Killarney Drive Pipe Replacement is on schedule after addressing utility issues with construction planned for this summer. Lake Bell Weir Repair is on schedule with design development expected by April 1st with construction to begin in the first half of 2025.
- Construction projects (Update slide to state active construction projects). Permit application of Mr. Wolfe will be on the March agenda.

Follow-up Items:

- BMP feasibility study for Killarney Drive outfall consolidation (currently unfunded. It could be added to the end of the next five-year plan - six years.
- Outfall condition update
- Exfiltration System Maintenance Agreement Update (being prepared by staff)

Ms. Monahan reported that the Board's request, via e-mail from Mrs. Wall, for a separate line item in the budget for Lake Killarney dredging was presented to the commission. The Commission voted to discuss this request as a part of upcoming budget discussions for a line item that encompasses all lakes, not just Lake Killarney. Mrs. Wall expanded on staff's comments stating the commission accepted the recommendation and need to set aside funding for all of the lakes.

8. Board Comments

- a. Discussion of Public Comments Received

9. Upcoming Agenda Items

- a. Upcoming Agenda Items

Staff will consolidate the list of items from the work session and regular meeting for the next meeting. It was suggested prioritizing review of the requirements and rules for boat dock and boat house requirements in the lobe and little lake as it relates to the big lake. Staff will provide the prioritized list with responsible departments. Discussion followed on the complexities of applying code standards specifically to Lake Killarney and conflicts as to other city lakes and Lakes and Waterways Board.

Mrs. Eby reported that Killarney Elementary is a Title I school with disadvantaged students within the Lake Killarney Community. The Sustainability Division is looking at opportunities to support the students in need. She asked if there was interest in the

board to participate. Discussion was held on board focus and priorities - not tied to board responsibilities. Staff to submit ideas to board.

Mrs. Wall asked if a letter was sent to Stacy McGarity. Mr. Cordell replied yes. Manhole update was requested.

The July meeting is moved to July 11th.

b. Summary of Meeting Action Items

- Provide a summary of work session.
- Exfiltration agreement reporting update
- Orange County - status storm pipe
- Status code enforcement of dock
- Manhole update

10. Adjournment

The meeting was adjourned 11:45 a.m.

Approved by the board on
/s/ Victoria Tabor, Administrative Coordinator



Lake Killarney Board

agenda item

item type

Public Hearings (Public participation and comment on these matters must be in person.)

meeting date

March 6, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Boathouse/Dock Application (BLDR-2023-0720) 2054 Lake Dr.

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

1. BLDR-2023-0720



LAKE SHORELINE BOATHOUSE/DOCK APPLICATIONS

BLDR-2023-0720

2054 Lake Dr

- Applicant: David Wolf
- Owner: David Wolf
- Contractor:
- Structure: Boathouse and Dock
- New/Existing: New
- Waterbody: Killarney

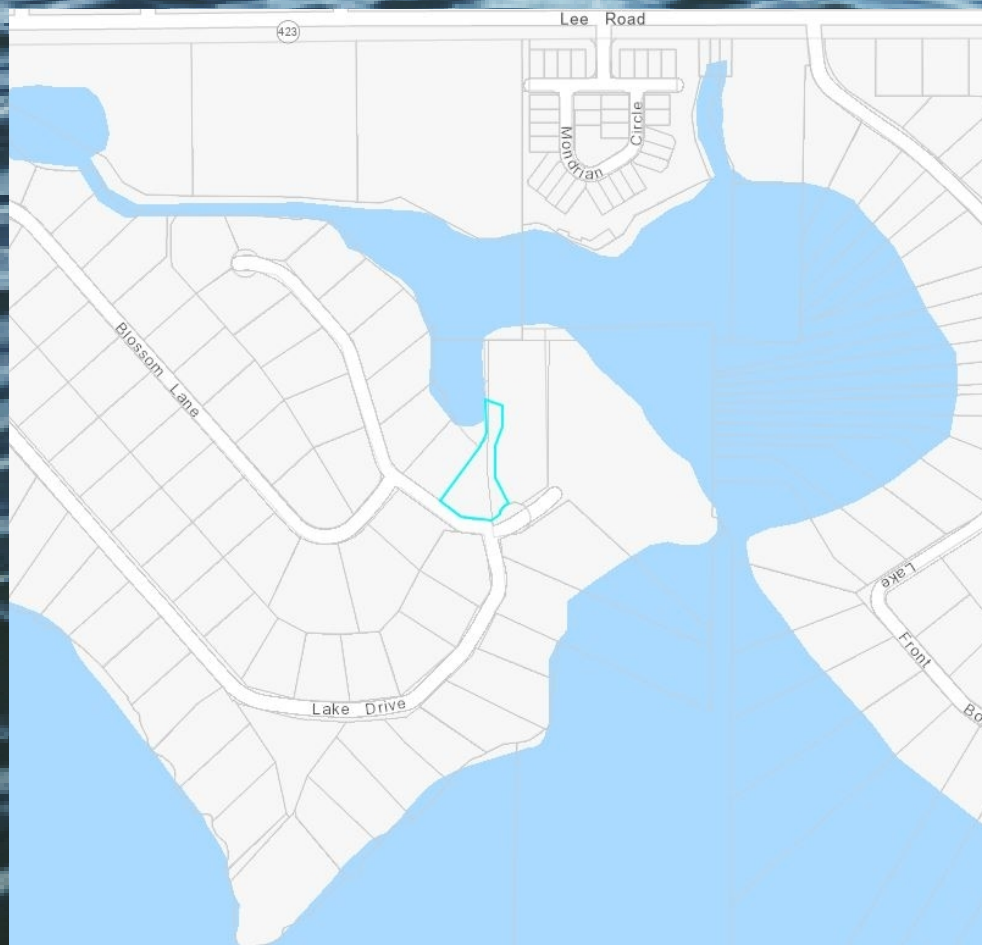
Parameters

Dock Parameter	Proposed	Allowed	Variance Req.?
Total Area (ft ²) OHWL	592	600 max	No
Length from OHWL (ft)	30'	50'	No
Height of Roof (ft above deck)	11'	11 max	No
Height of Deck (ft above OHWL)	2'	2 max	No
Enclosures?	No	80 ft ² max (no plumbing/water allowed)	No
Side Yard Setback(s) (ft)	5'	10 min	No
Meet Vegetation Criteria?	Yes	50% may be cleared	No

Staff Recommendation: Approval
Reviewed by: Joey Cordell

Map View

Basemap



Aerial View



Bird's Eye View



Bird's Eye View



Photos

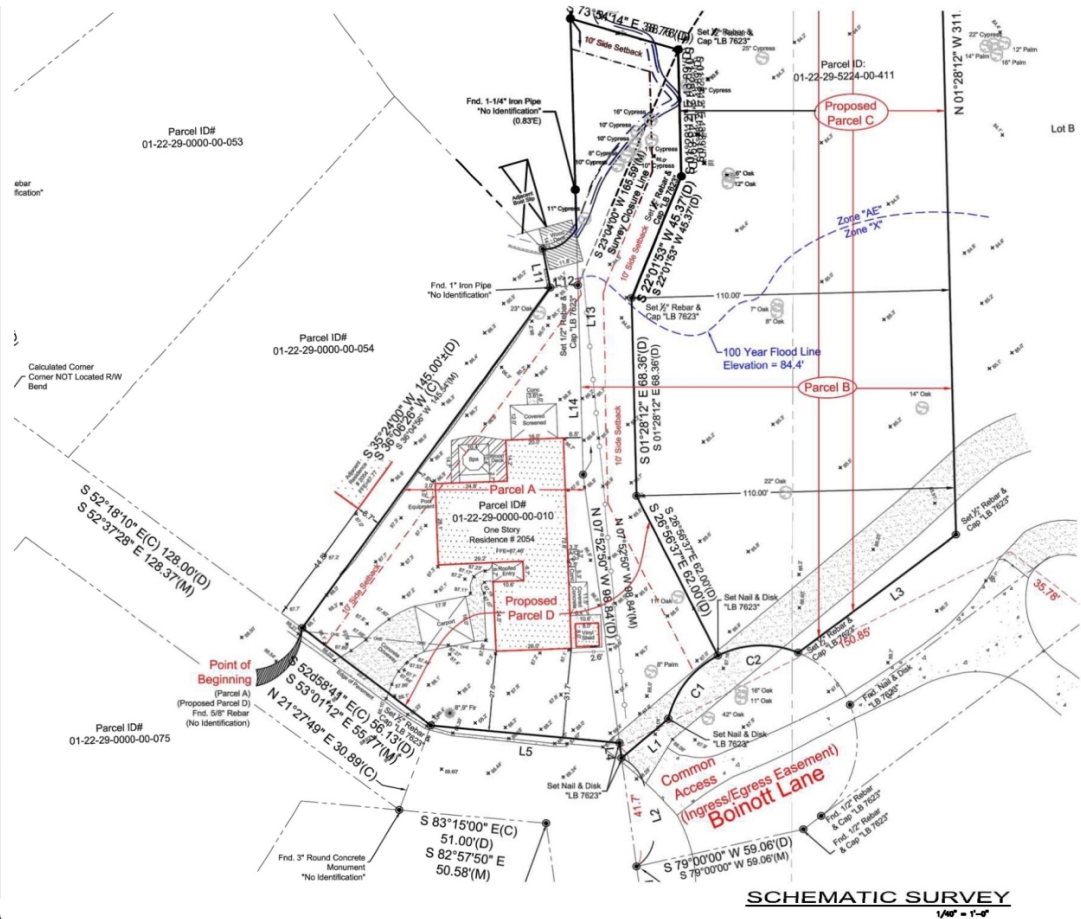


Survey

INDEX OF DRAWINGS

- A0 INDEX OF DRAWINGS, SITE LOCATION MAP
- A1 SITE PLAN
- A2 PLAN VIEW
- A3 FLOOR PLAN WITH DIMENSIONS
- A4 FRONT AND RIGHT ELEVATIONS
- S0 GENERAL STRUCTURAL NOTES
- S1 STRUCTURAL DETAILS
- S2 ROOF FRAMING PLAN & STRUCTURAL NOTES
- S3 CROSS SECTION

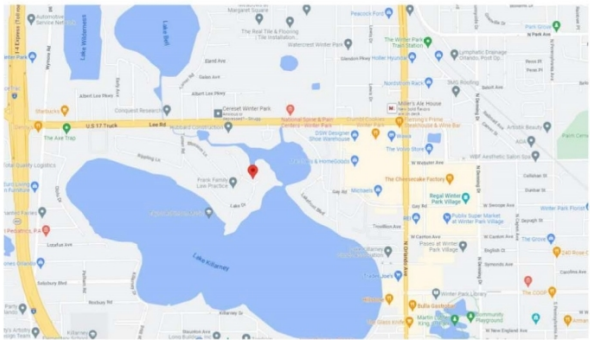
SCOPE OF WORK: NEW OBSERVATION WOODEN DECK



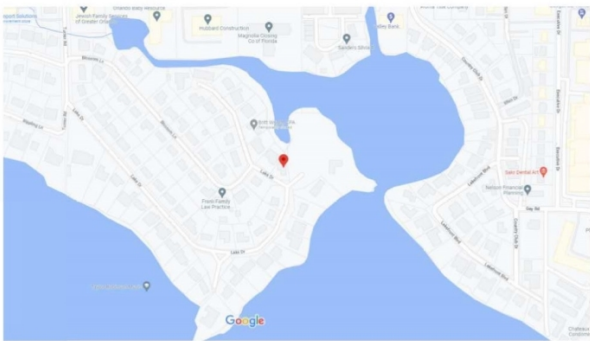
SCHMATIC SURVEY
1/4\"/>



Digitally signed by
MICHAEL THOMPSON
Reason: This item has
been electronically signed
& sealed by Michael A.
Thompson using a digital
signature. Printed copies
of this document are not
considered signed and
sealed and the signature
must be verified on any
electronic copies.
Date: 2023.03.17 14:33:03
-04'00'



LOCATION OF PROPOSED CONSTRUCTION



SITE LOCATION MAP

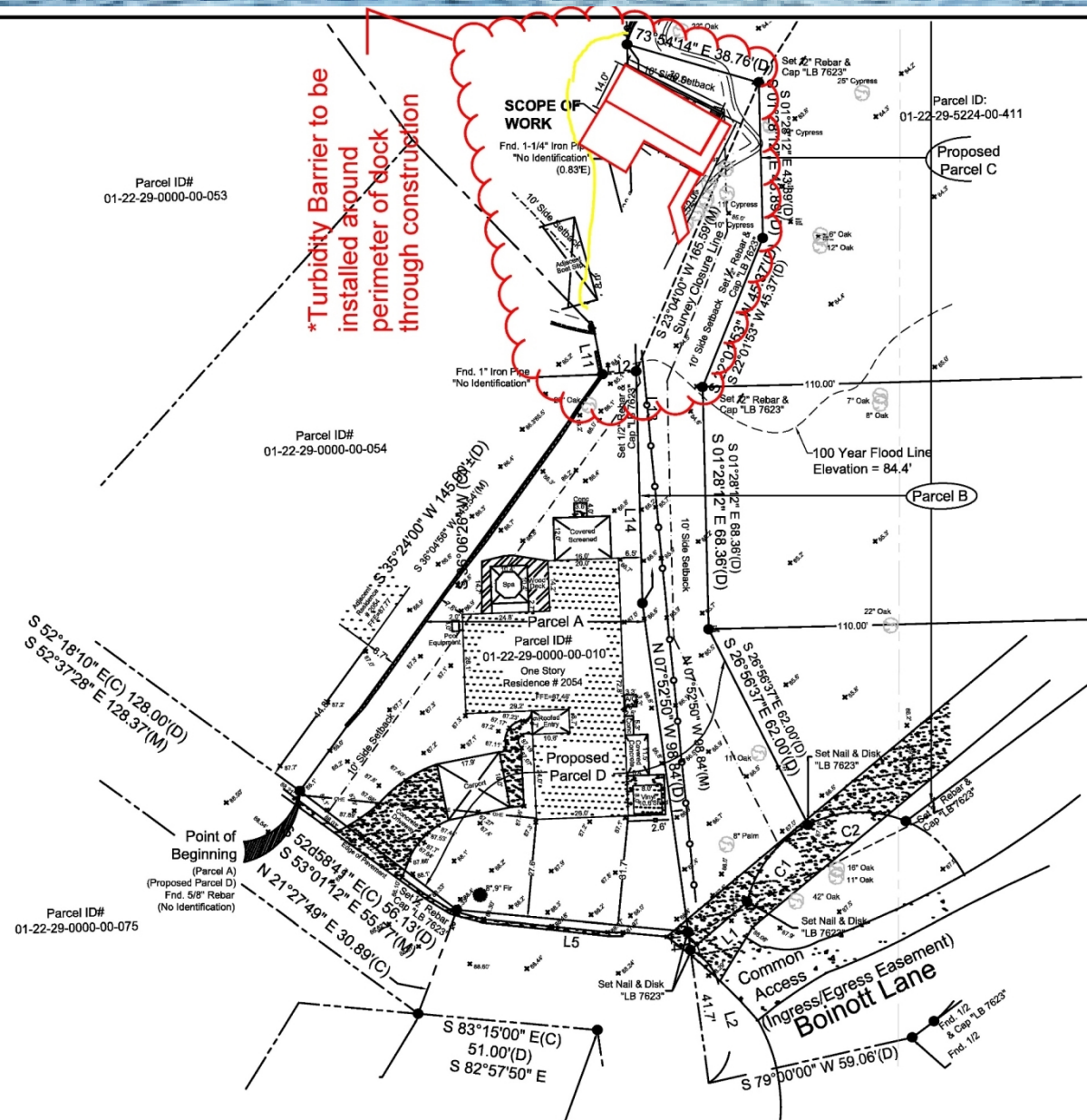
REVISIONS:

WOOD DECK
2054 LAKE DRIVE, WINTER PARK, FL 32789



DATE: 03/17/23
SCALE: AS NOTED
DRAWN BY: A/N
SHEET
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Plans



REVISIONS:

WOOD DECK
2054 LAKE DRIVE, WINTER PARK, FL 32789



DATE: 03/17/23

SCALE: AS NOTED

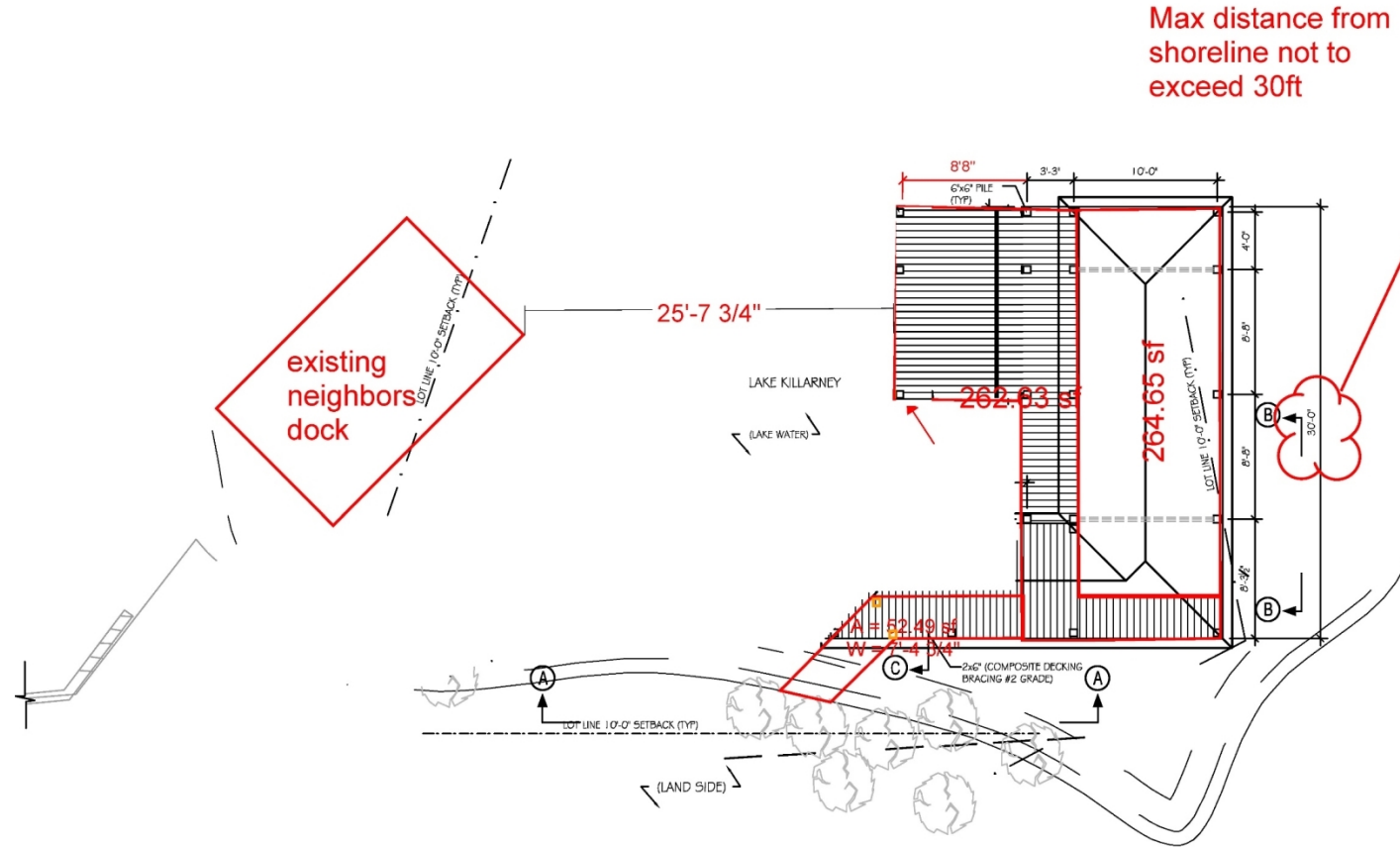
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SHEET

AI

SITE PLAN
SCALE: 1/30"=1'-0" (11X17)

Plans



REVISIONS:

WOOD DECK
2054 LAKE DRIVE, WINTER PARK, FL 32789

TEG
THOMPSON ENGINEERING GROUP, INC.
Michael A. Thompson
PE # 47509
4401 Vinland Road, Suite A8
Orlando, FL 32811
407.734-1450
www.tegfl.com

DATE: 03/17/23

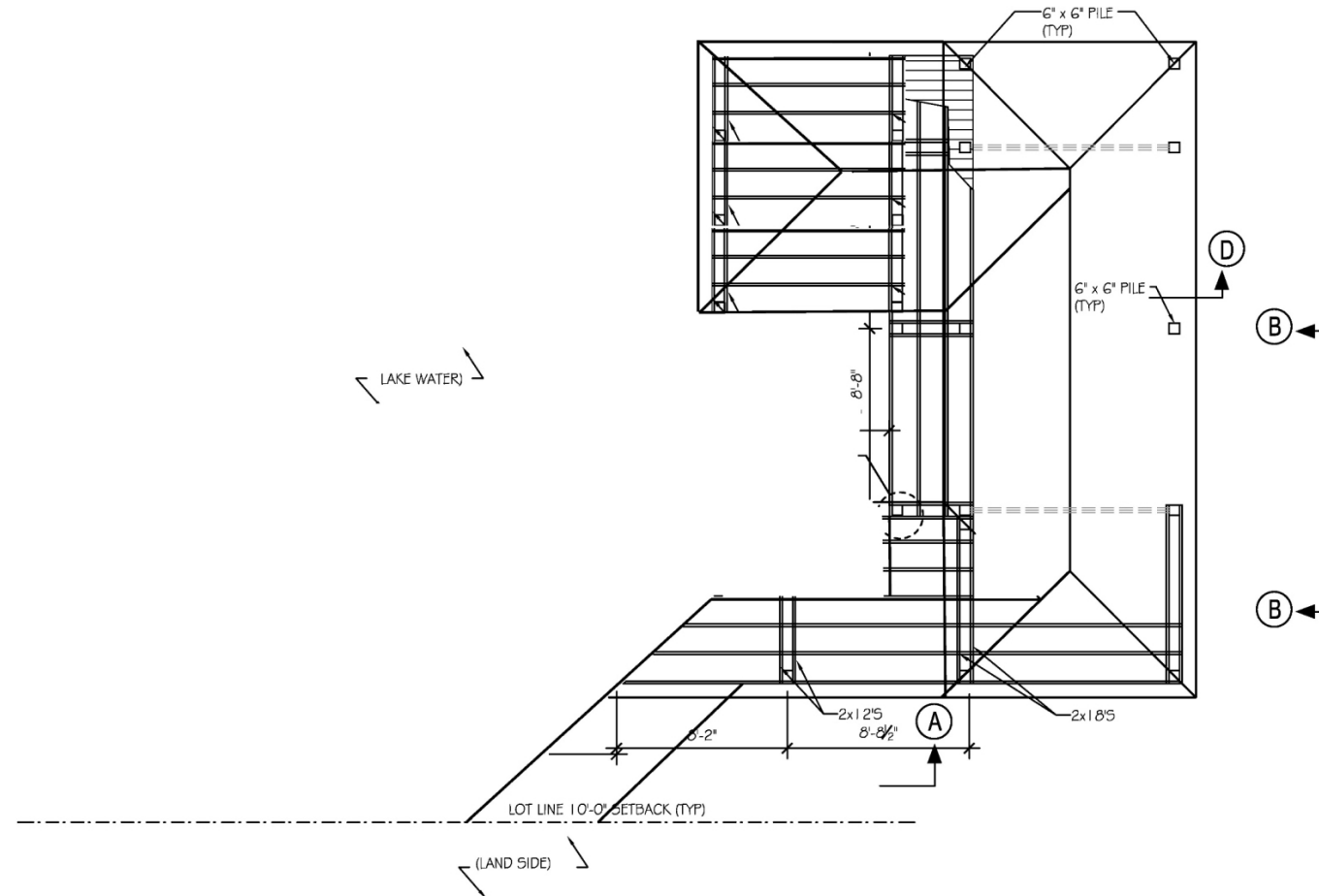
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Plans



FLOOR PLAN W/ DIMENSIONS
SCALE: 3/16"=1'-0" (11X17)

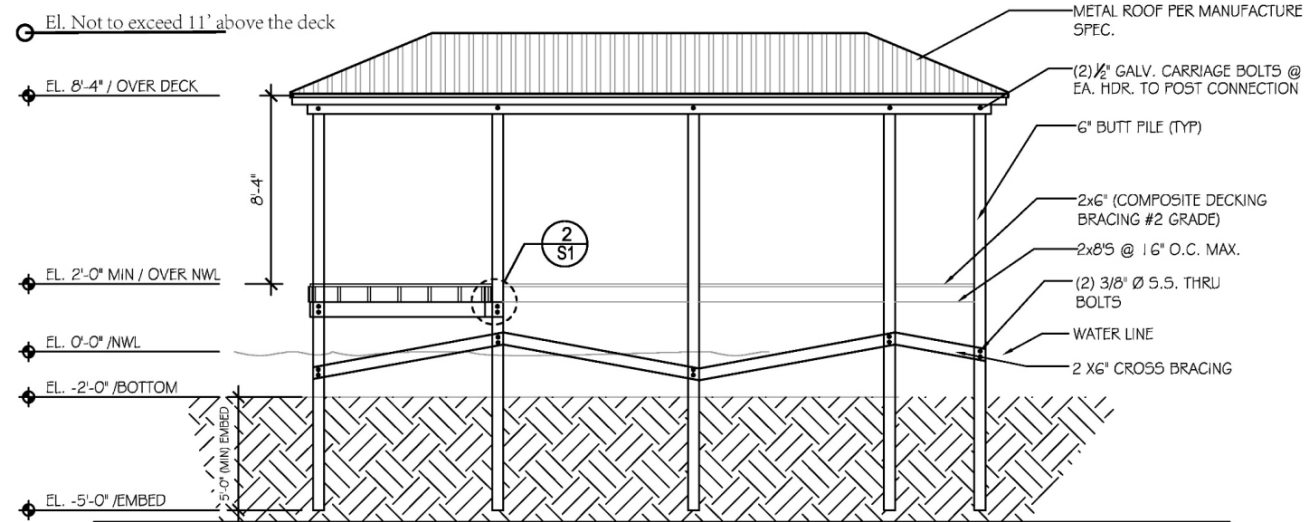
REVISIONS:

WOOD DECK
2054 LAKE DRIVE, WINTER PARK, FL 32789



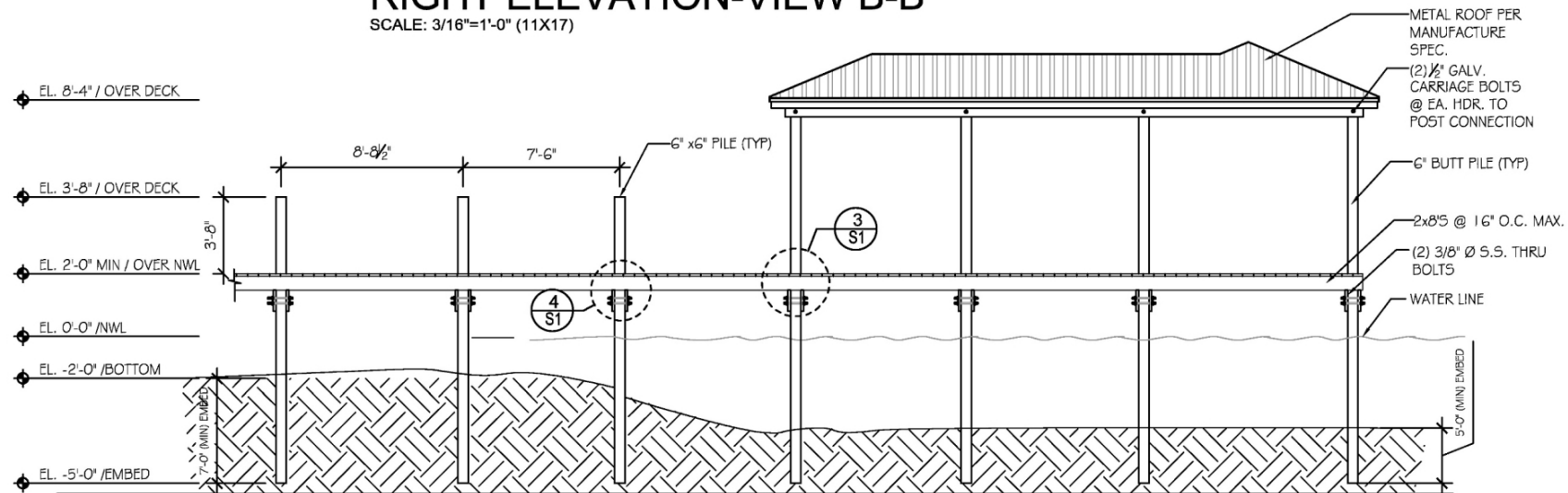
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Plans



RIGHT ELEVATION-VIEW B-B

SCALE: 3/16"=1'-0" (11X17)



FRONT ELEVATION-VIEW A-A

SCALE: 3/16"=1'-0" (11X17)

REVISIONS:

WOOD DECK
2054 LAKE DRIVE, WINTER PARK, FL 32789



DATE: 03/17/23

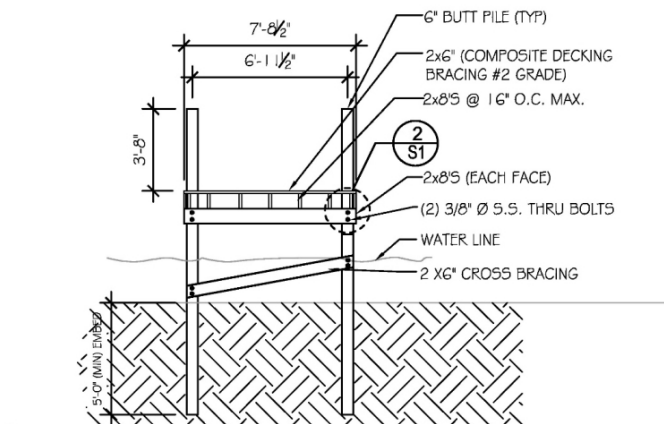
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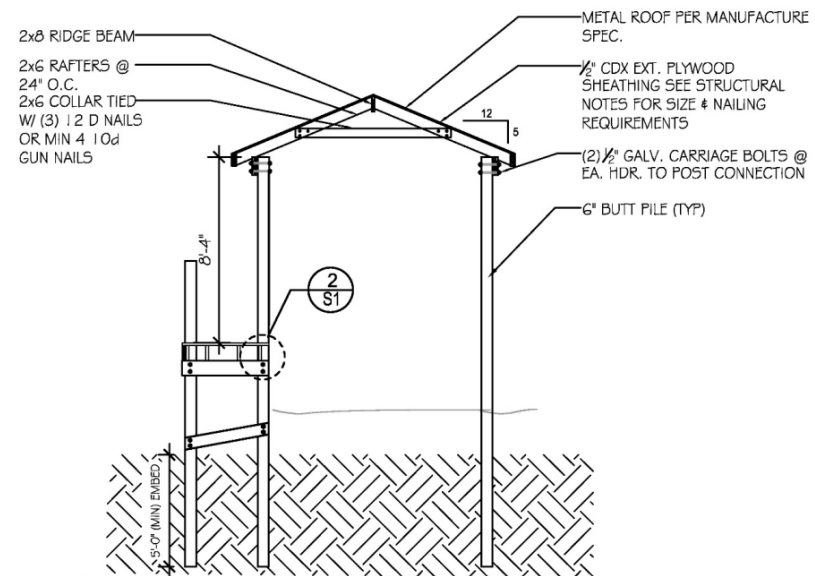
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Plans



SECTION C-C
SCALE: 3/16"=1'-0" (11X17)



SECTION D-D
SCALE: 3/16"=1'-0" (11X17)

REVISIONS:

WOOD DECK
2054 LAKE DRIVE, WINTER PARK, FL 32789



DATE: 03/17/23
SCALE: AS NOTED
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S3

Letter of No Objection

AFFECTED ADJACENT PROPERTY OWNER
NOTARIZED STATEMENT OF NO OBJECTION
TO BOAT DOCK SIDE-SETBACK WAIVER REQUEST

I, David Wolf, a legal property owner of property located at 2056 lake dr, winter park, fl 32789,
(Address

have reviewed the dock construction plans dated 8/1/2023, for the property
located at

2054 lake dr, winter park, fl 32789, and have no objections.

The dock construction plans include a side setback waiver request of 5 feet, in lieu of the
minimum 10 feet required by Code.

David Wolf
(Signature – Adjacent Affected Property Owner)

8/1/2023

(Date)

David Wolf

(Print Name – Adjacent Affected Property Owner)

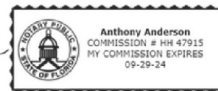
ACKNOWLEDGEMENT:

STATE OF FLORIDA

COUNTY OF ORANGE

The foregoing instrument was acknowledged before me this 8th day of August, 2023, by

Anthony Anderson



(Signature of Notary Public – State of Florida)

Personally Known ☒ OR Produced Identification

Type of Identification Produced



Lake Killarney Board

agenda item

item type

Non-Action Items

meeting date

March 6, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

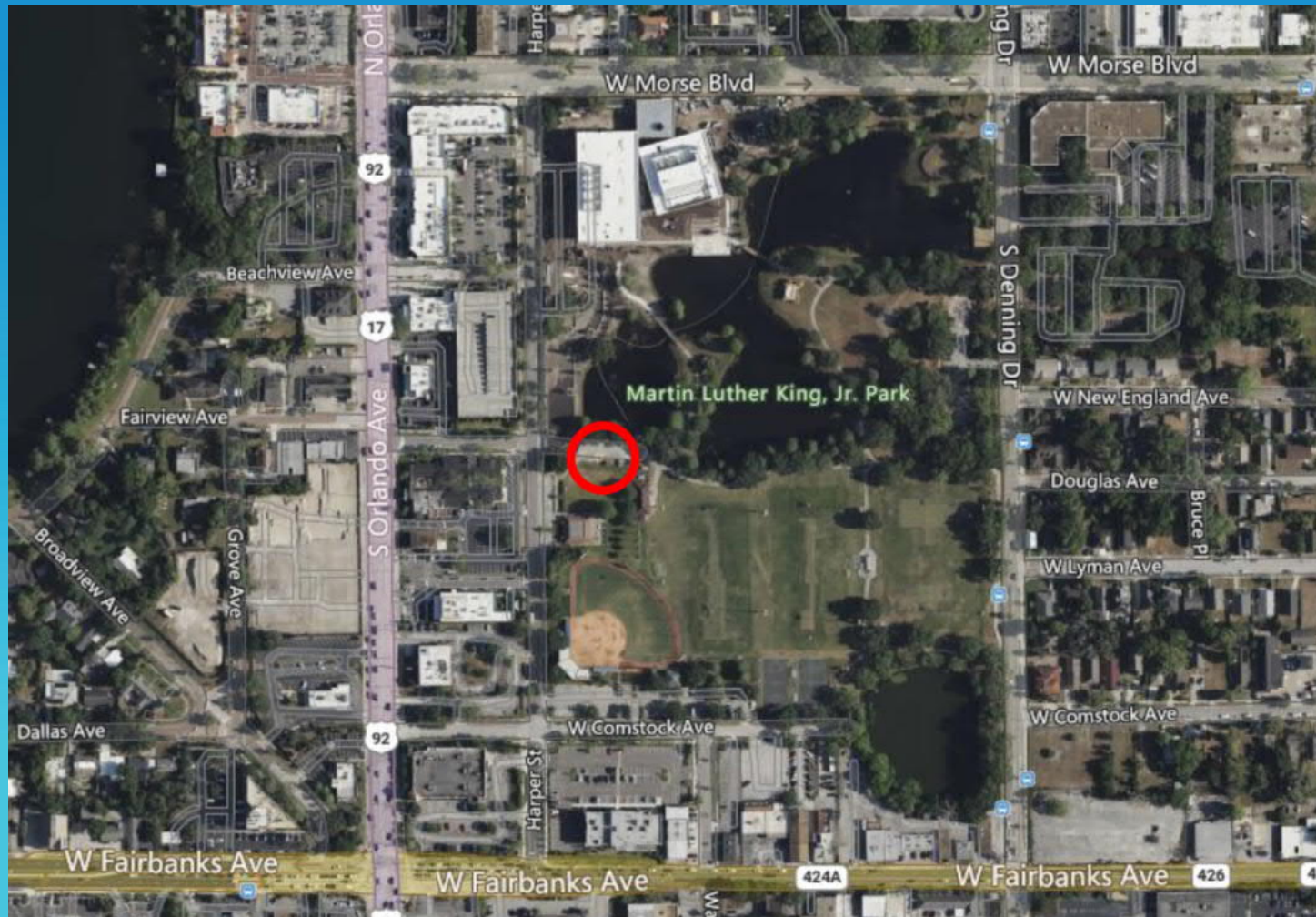
subject

MLK Jr. Park Sinkhole Risk Evaluation

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

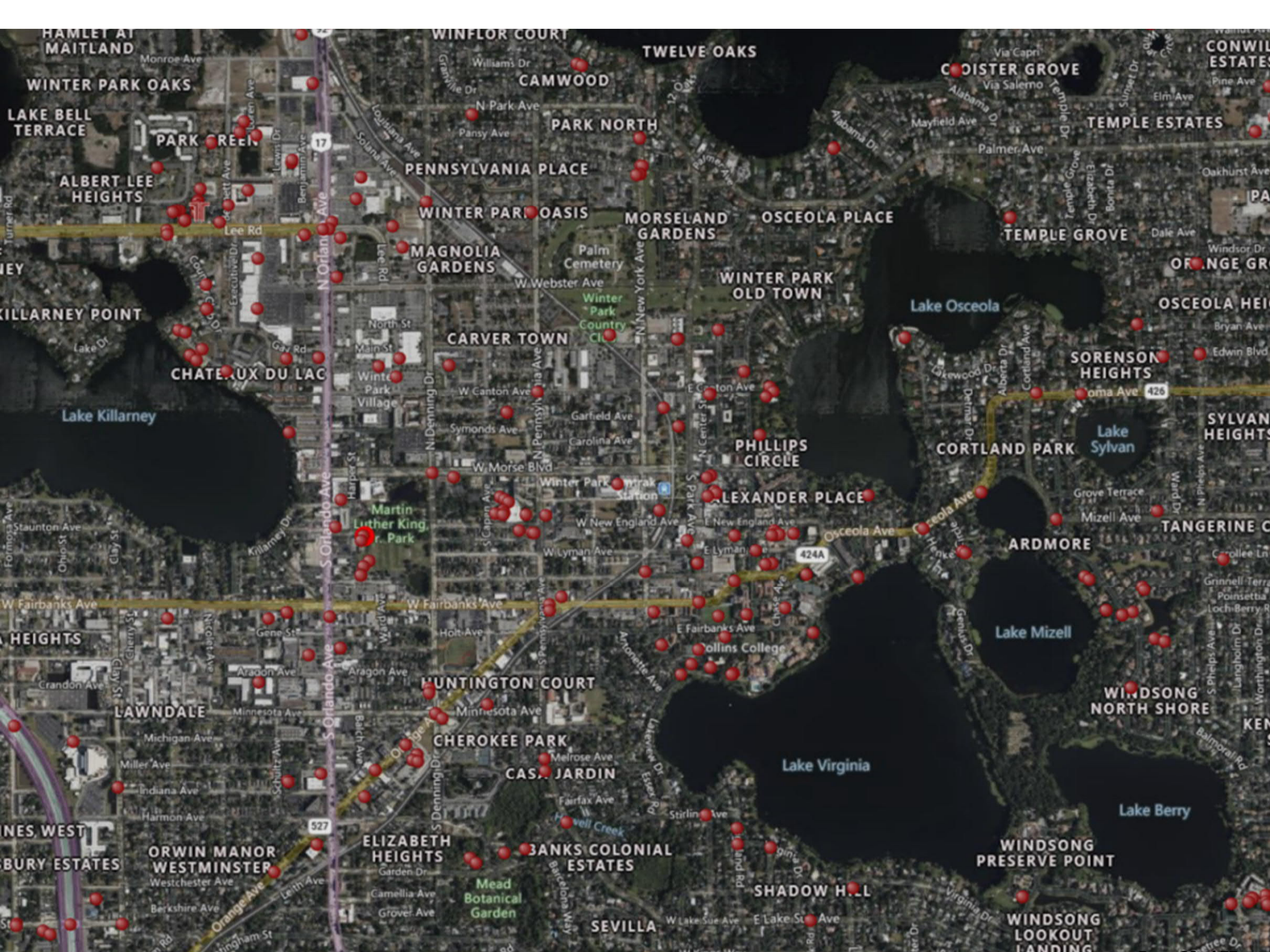
1. MLK Jr Park Sinkhole Risk Evaluation

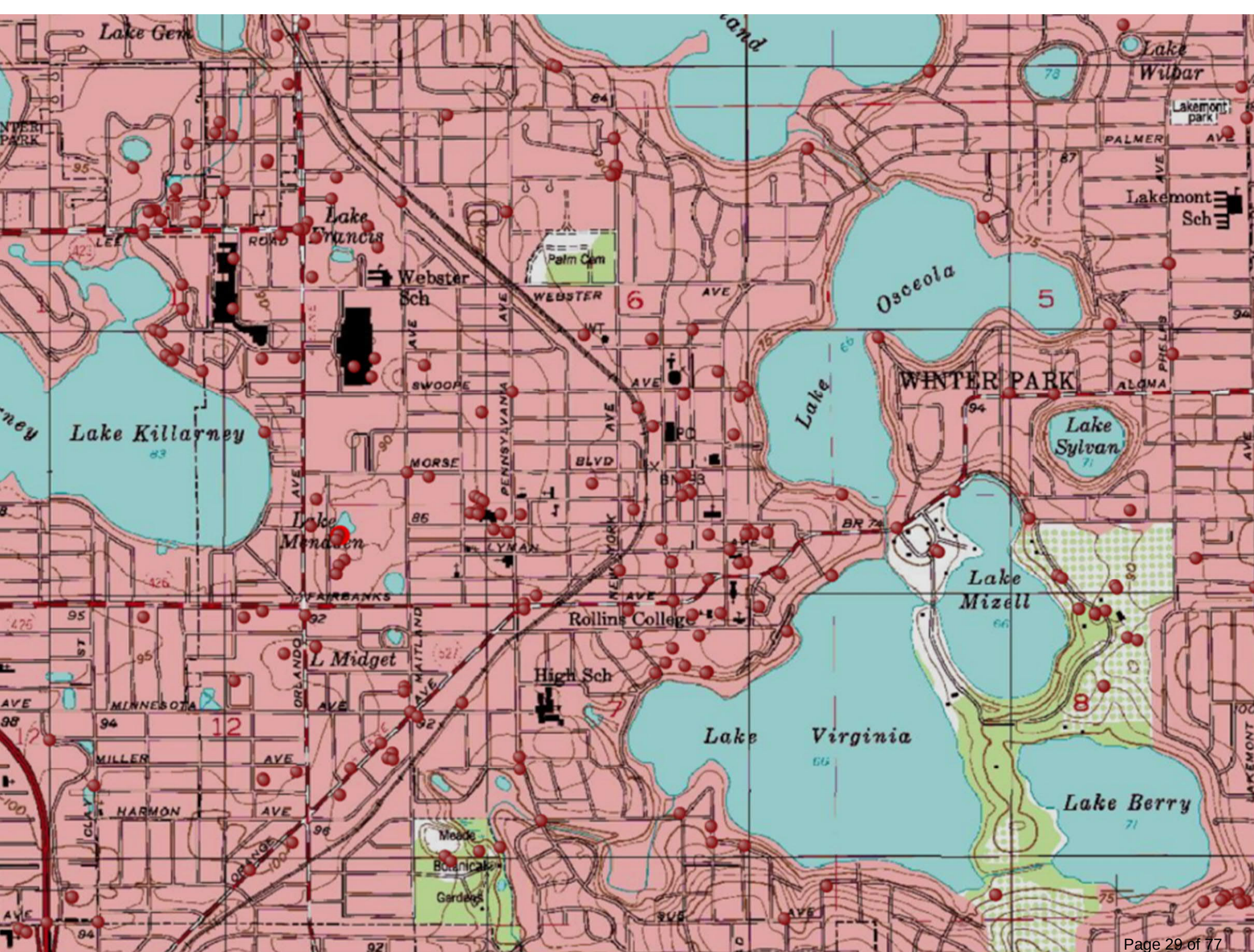
MLK Jr. Park Sinkhole Risk Evaluation

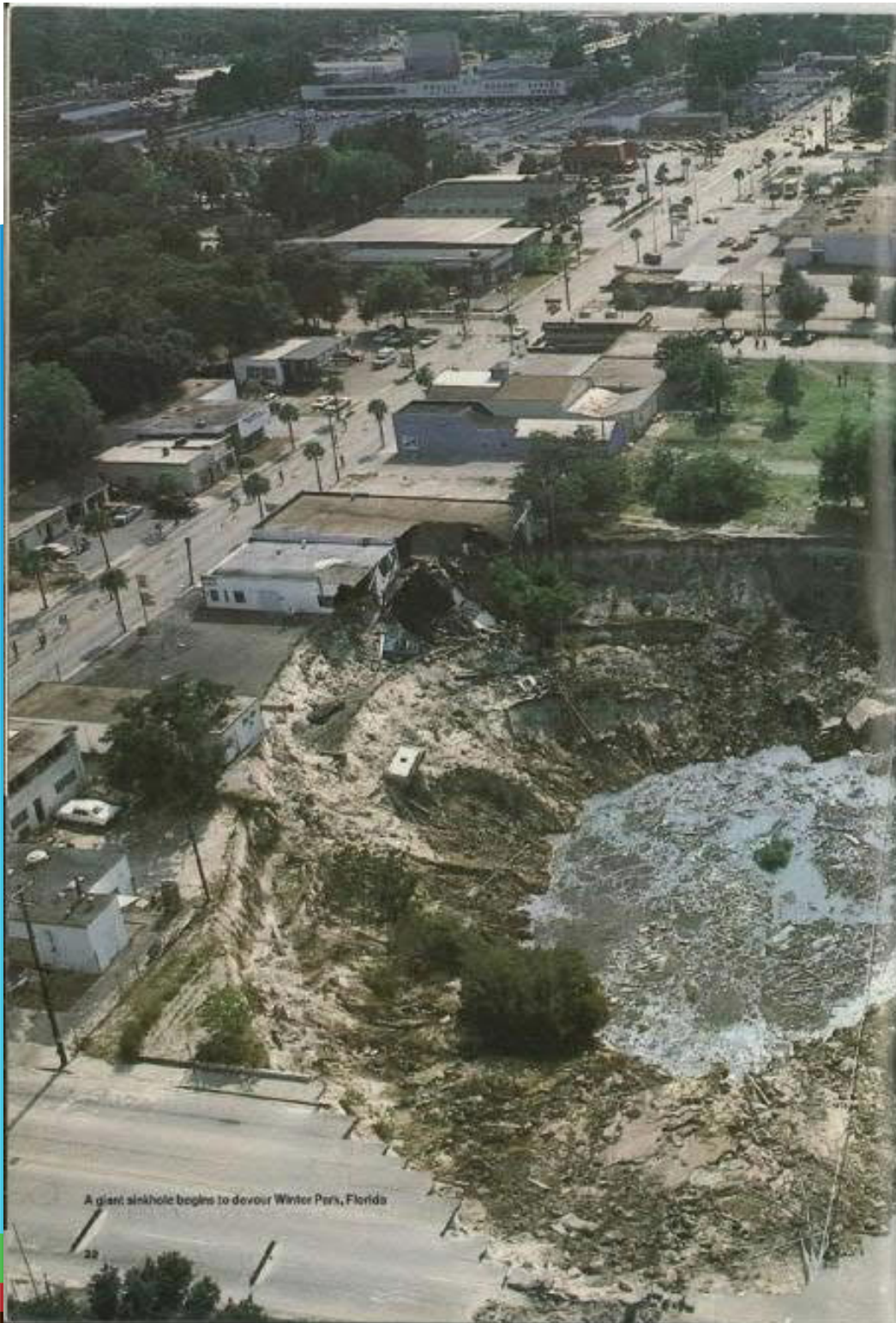


Jay W. Casper, P.E

- Senior Principal, Terracon Consultants
- 43 years experience
- 36 years working in Winter Park
- Winter Park High School 1974
- University of Florida
 - BS Geology 1977 (with Honors)
 - BS Civil Engineering 1979 (with
 - ME 1980 (Geotechnical specialty, sinkhole thesis subject)
- Licensed PE in FL (1985), LA (1983)
- Former President Central Florida ASCE
- Former President FES Central Florida
- Worked alongside S.E. “Jim” Jammal, PE for 28 years







A giant sinkhole begins to devour Winter Park, Florida

22



© PAUL DAVIS/CONCEPT

GEOLOGY

Dropping Out in Florida

Ancient limestone and a new drought combine to create a rash of sinkholes

by MONTE DAVIS

It was a challenging problem for the Orange County, Florida, tax appraiser's office. "Obviously, the property is not worth as much as it was this time last year," said one official. "You send them a tax bill and they're going to throw it in the garbage. I probably would, too."

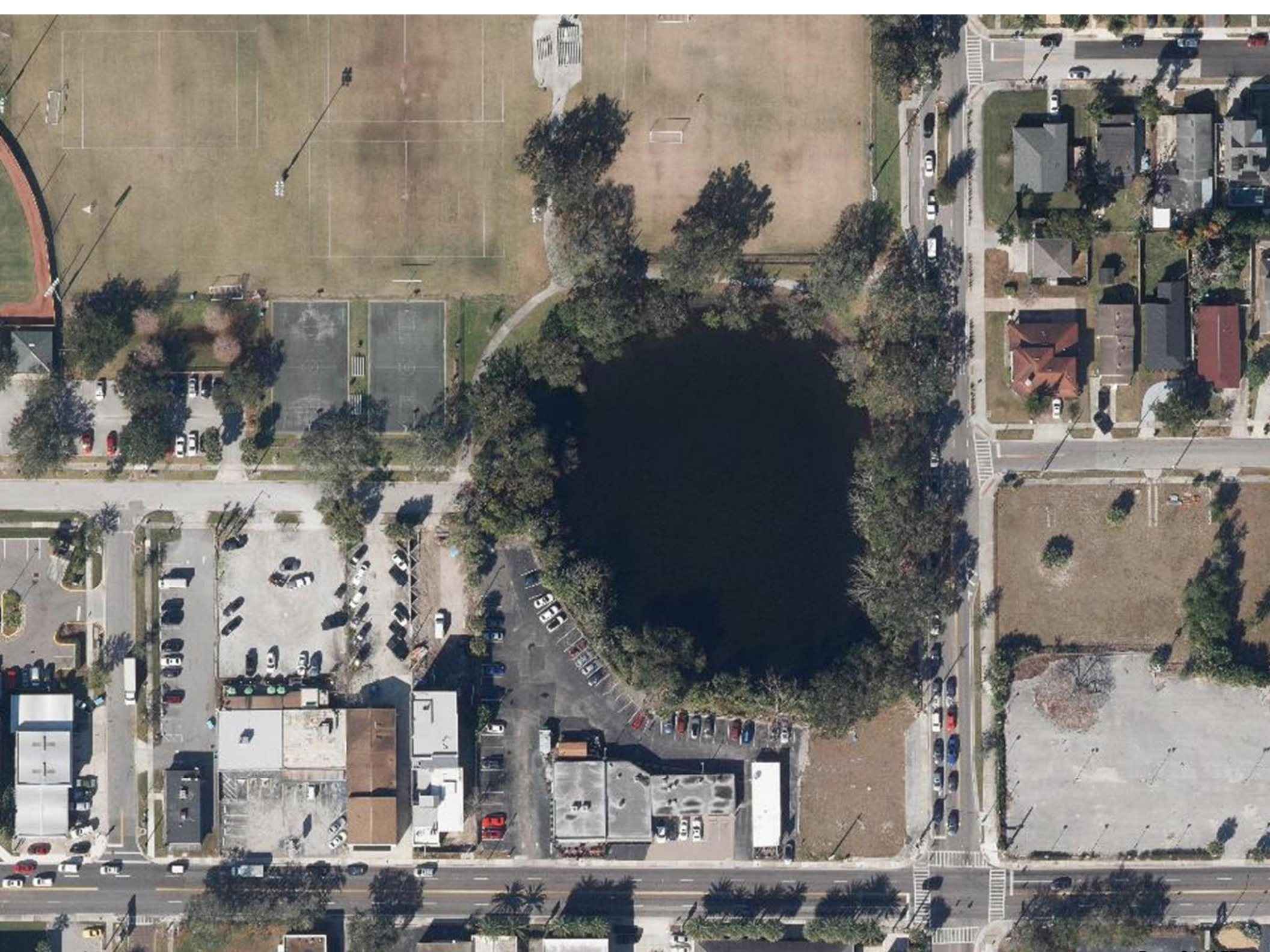
The problem in Winter Park, a suburb of Orlando, was not a taxpayers' revolt, but a giant, two-and-a-half-acre sinkhole, resulting from the collapse of soil into a cavern in the limestone beneath. The sinkhole began to open on the night of May 8, when housewife Mae Rose Owens heard a rustling and then what she described as a plop—probably as good a word as

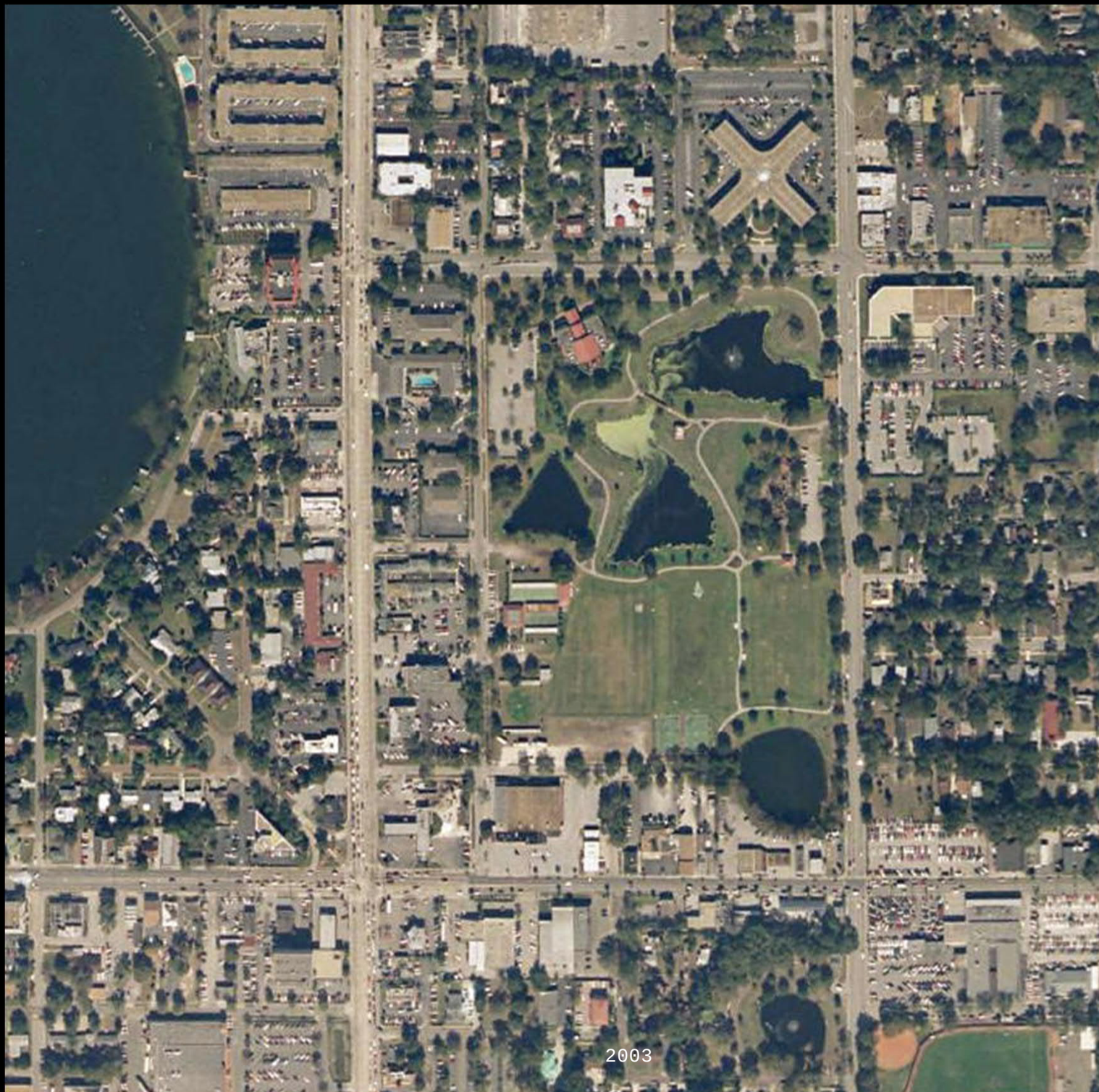
any for the sound of a spreading oak tree disappearing into the earth. During the next week, the sinkhole expanded into a circular pit 342 feet across and 100 feet deep, swallowing the Owens house and yard, a parking lot, the deep end of the municipal swimming pool, a foreign-car repair shop and six foreign cars, and portions of two streets. "We have to let Mother Nature take her course," said fire captain Gus LaFarge, who added that he wished the sinkhole would expand toward nearby baseball diamonds if it had to expand any further. Smaller sinkholes appeared in Altamonte Springs, five miles north of Winter Park, and in adjoining Polk County.



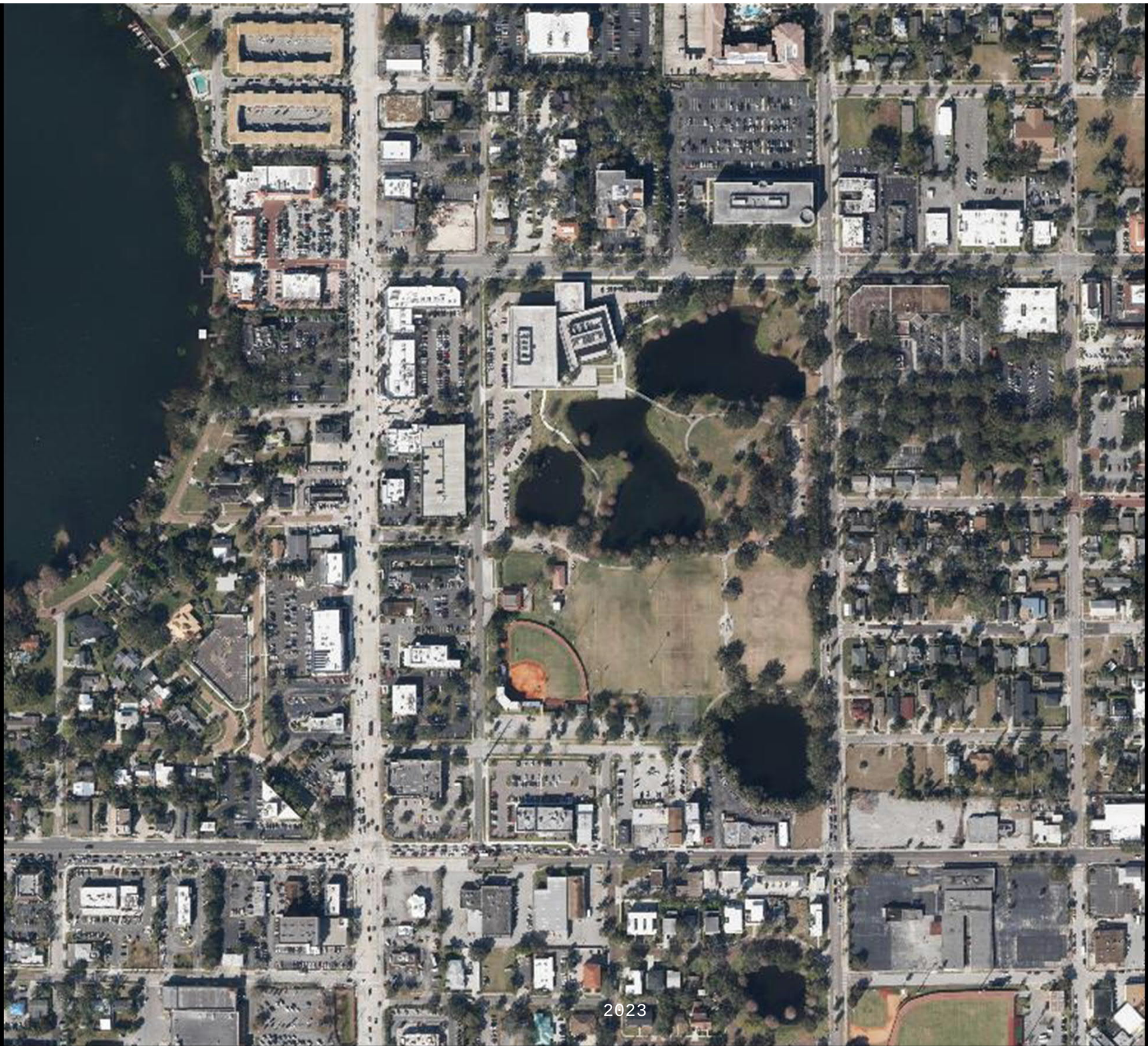




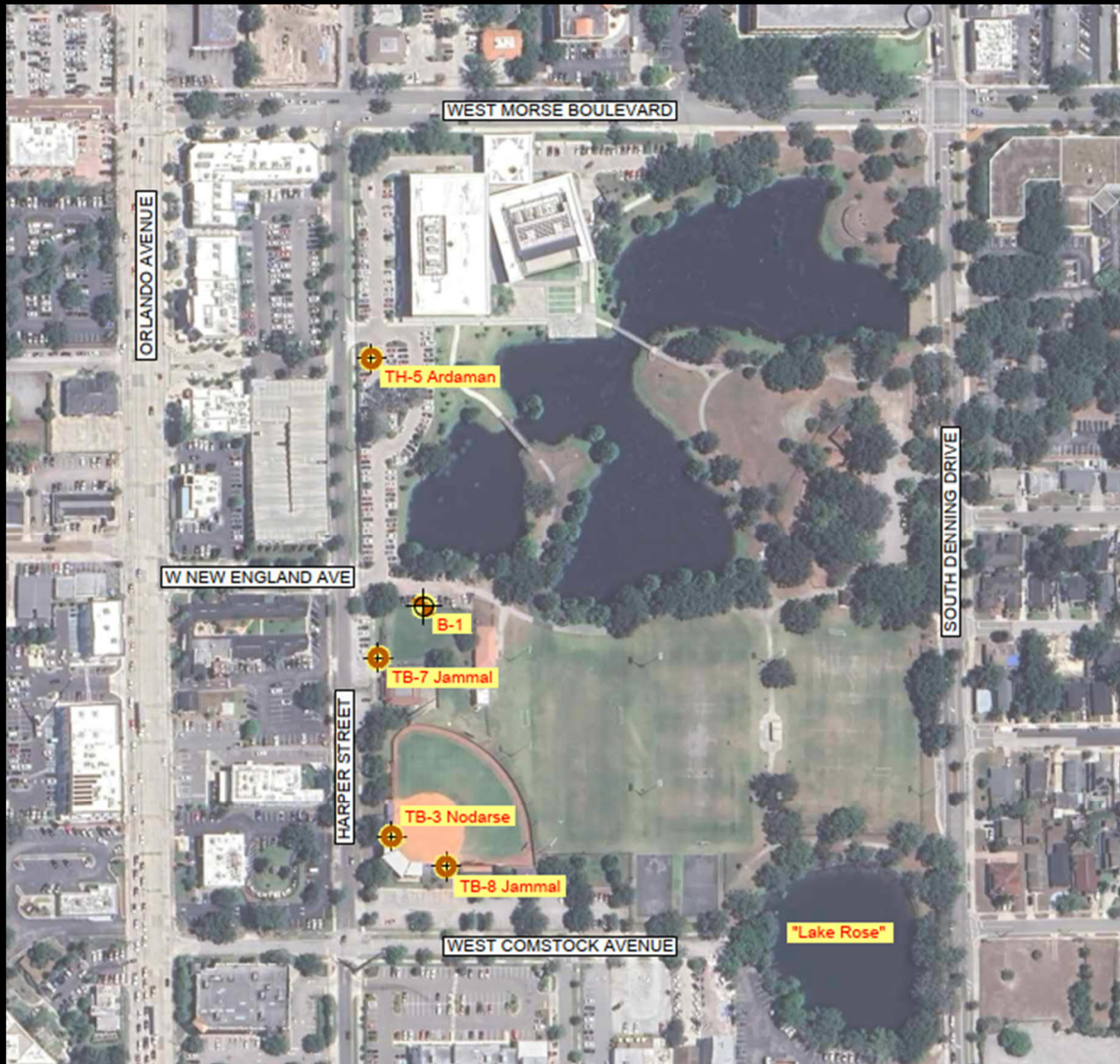


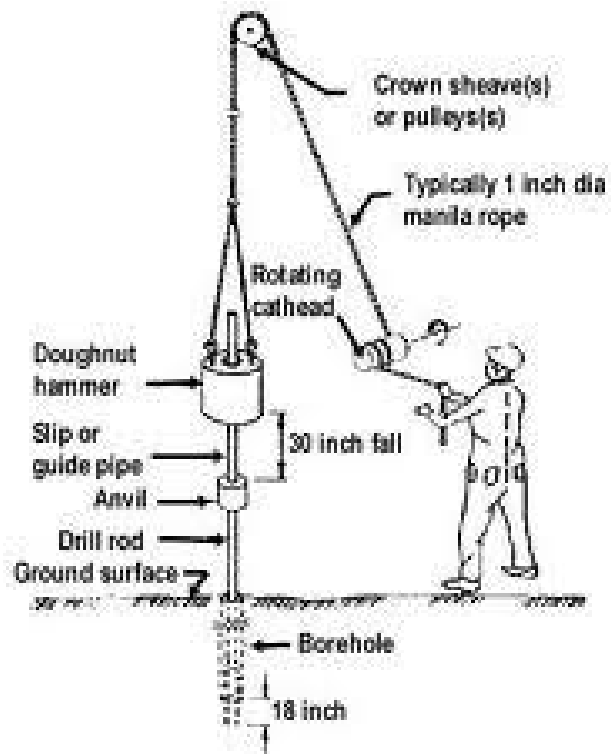


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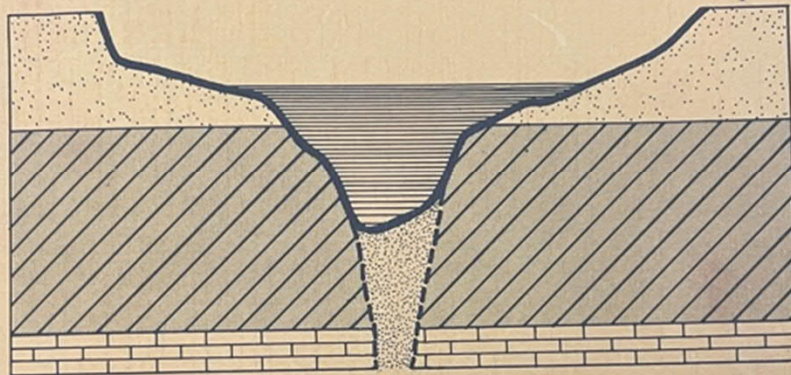


2023





The Winter Park Sinkhole



A Report of the Investigation,
Findings, Evaluation and
Recommendations.

for: The City Commission
City of Winter Park,
Florida

by: Jammal & Associates, Inc.
Consulting Geotechnical
Engineers

March 1982

LAKE KILLARNEY

Water Elevator 85.0' MSL

BEACHVIEW AVENUE

FAIRVIEW AVENUE

KILLARNEY DRIVE

P-15

P-14

BROADVIEW AVENUE

DALLAS AVENUE

MORSE BOULEVARD

LAKE MENDSEN

ORLANDO AVENUE (HWY. 17-92)

HARPER STREET

NEW ENGLAND AVENUE

P-13

P-12

P-11

P-10

P-9

P-8

P-7

P-6

P-5

P-4

P-3

P-2

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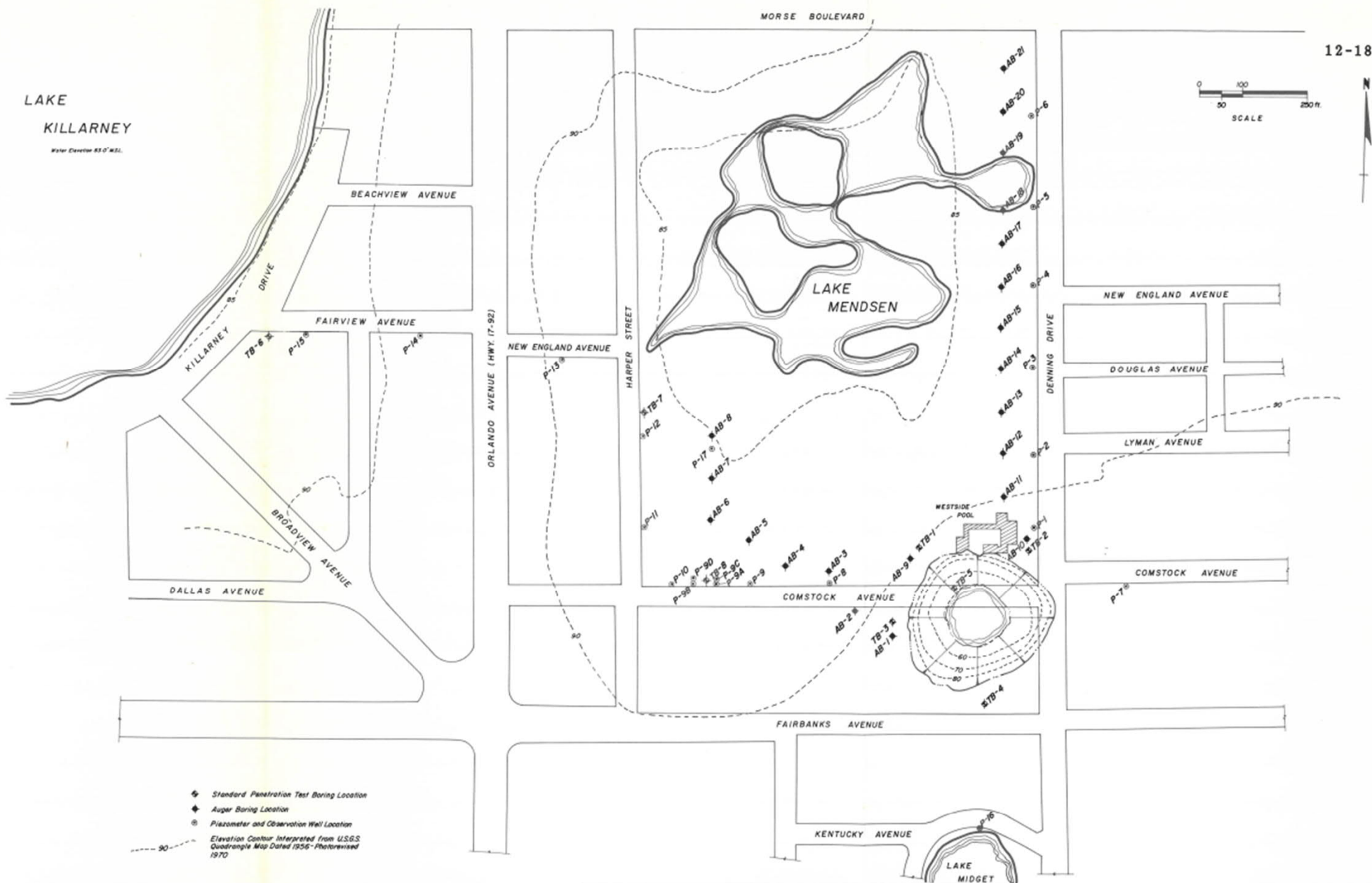
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LAKE
KILLARNEY
Water Elevation 85.0' MSL



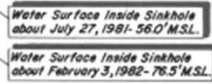
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REVISION		

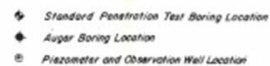
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CHECKED BY: SEJ	
APPROVED BY: SEJ	
SCALE: NOTED	



CITY OF WINTER PARK SINKHOLE INVESTIGATION		
TEST LOCATIONS		
DATE: MAR '82	PROJECT NO: 81-374-B	FIGURE NO: 12-3







*Elevation Contour Interpreted from U.S.G.S
Quadrangle Map Dated 1956-Photorevised
1977*

Elevation Contour of Secondary Artesian Aquifer Water Level Based on Measured Levels of Piezometer Locations. Depressions of Water Level as of Locations P-10 and P-12 May Be Present in the Area Between Piezometer Locations.

As Measured on July 20-22 and 24-28, 1981 - July 19, 1981
Sinkhole Water Level Dropped From 63.5' M.S.L. to 43.0' M.S.L.
- July 19 - 28 Rose Back to 57.0' M.S.L. - Sept. 20, 1981 Water Level
Dropped From 64.0' M.S.L. to 44.0' M.S.L. - Feb. 1982 Rose Back
to 76.5' M.S.L.

As Measured on Feb. 2-4, 1982 at Which Time Water Surface
in Sinkhole was at Elevation 76.5' M.S.L.

				FIELD
				DRAWN BY <i>HAYES</i>
				CHECKED BY <i>SEJ</i>
				APPROVED BY <i>SEJ</i>
DATE	BY	DESCRIPTION		SCALE <i>NOTED</i>
REVISION				

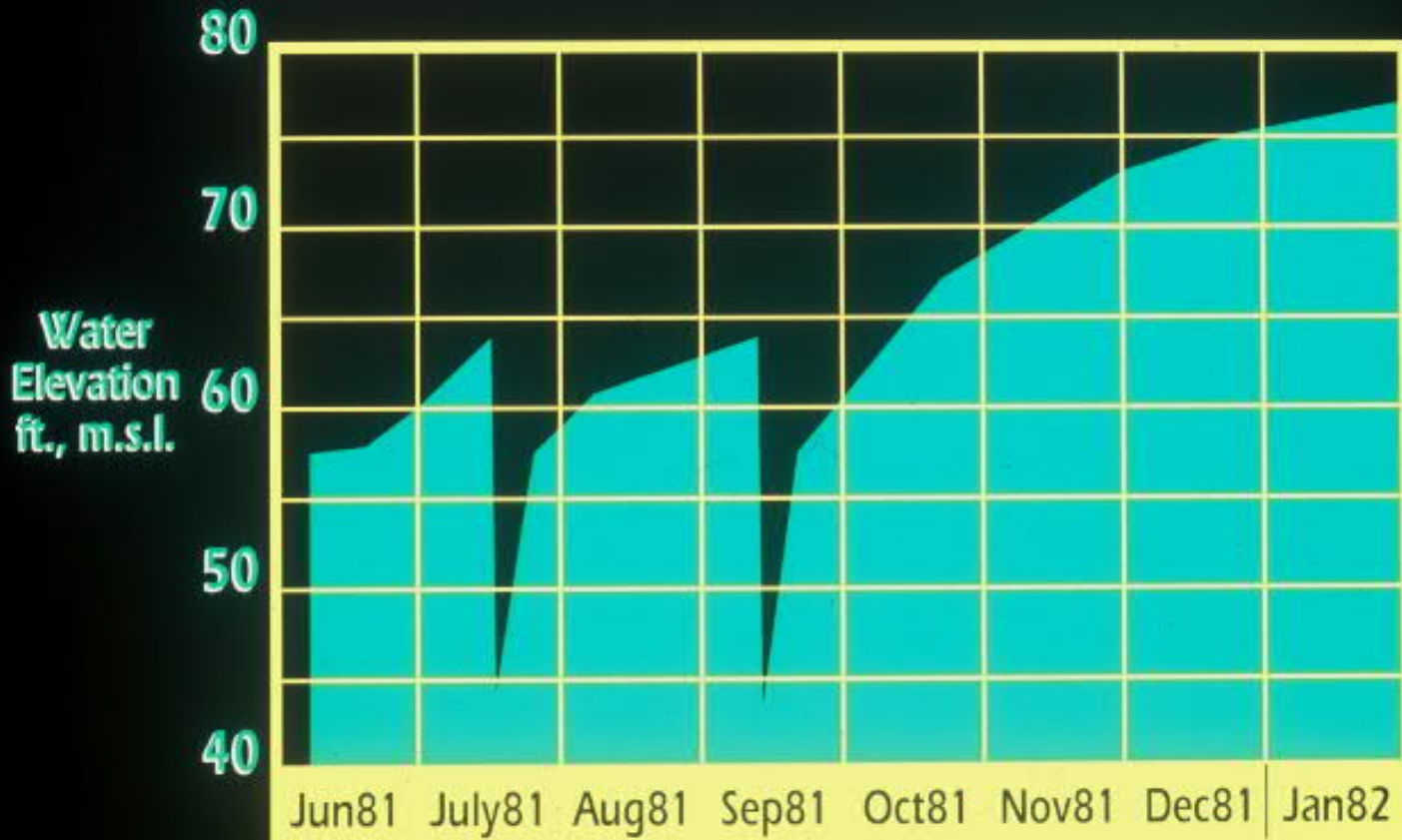


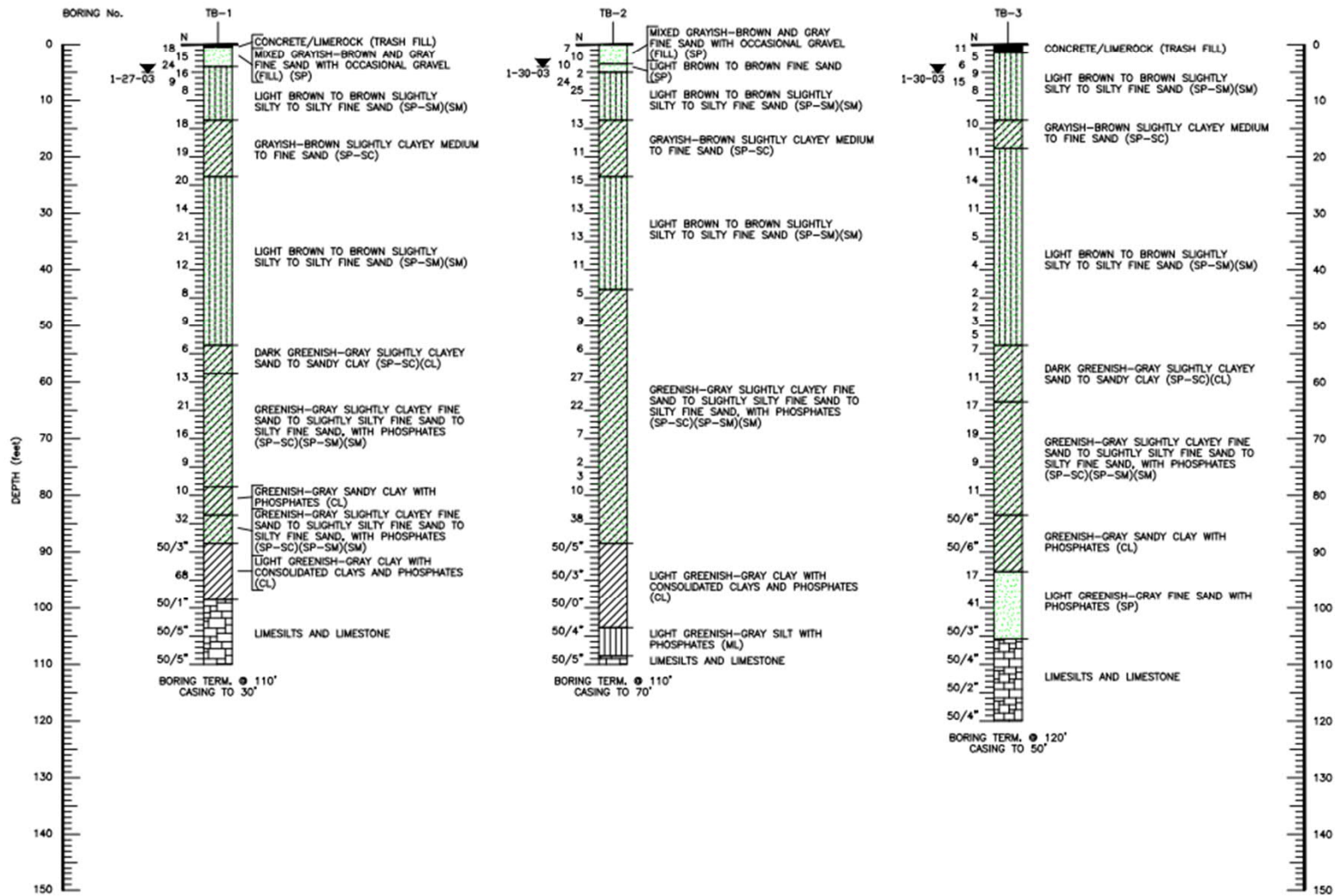
JAMMAL & ASSOCIATES, INC.
Consulting Geotechnical Engineers

CITY of WINTER PARK
SINKHOLE INVESTIGATION
ELEVATION of SECONDARY ARTESIAN AQUIFER
from
PIEZOMETERS

DATE: MAR '82	PROJECT NO. 81-374-B	FIGURE No. 13-4
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Water Level Fluctuations





REVISIONS

Date	By	Description	Date	By	Description

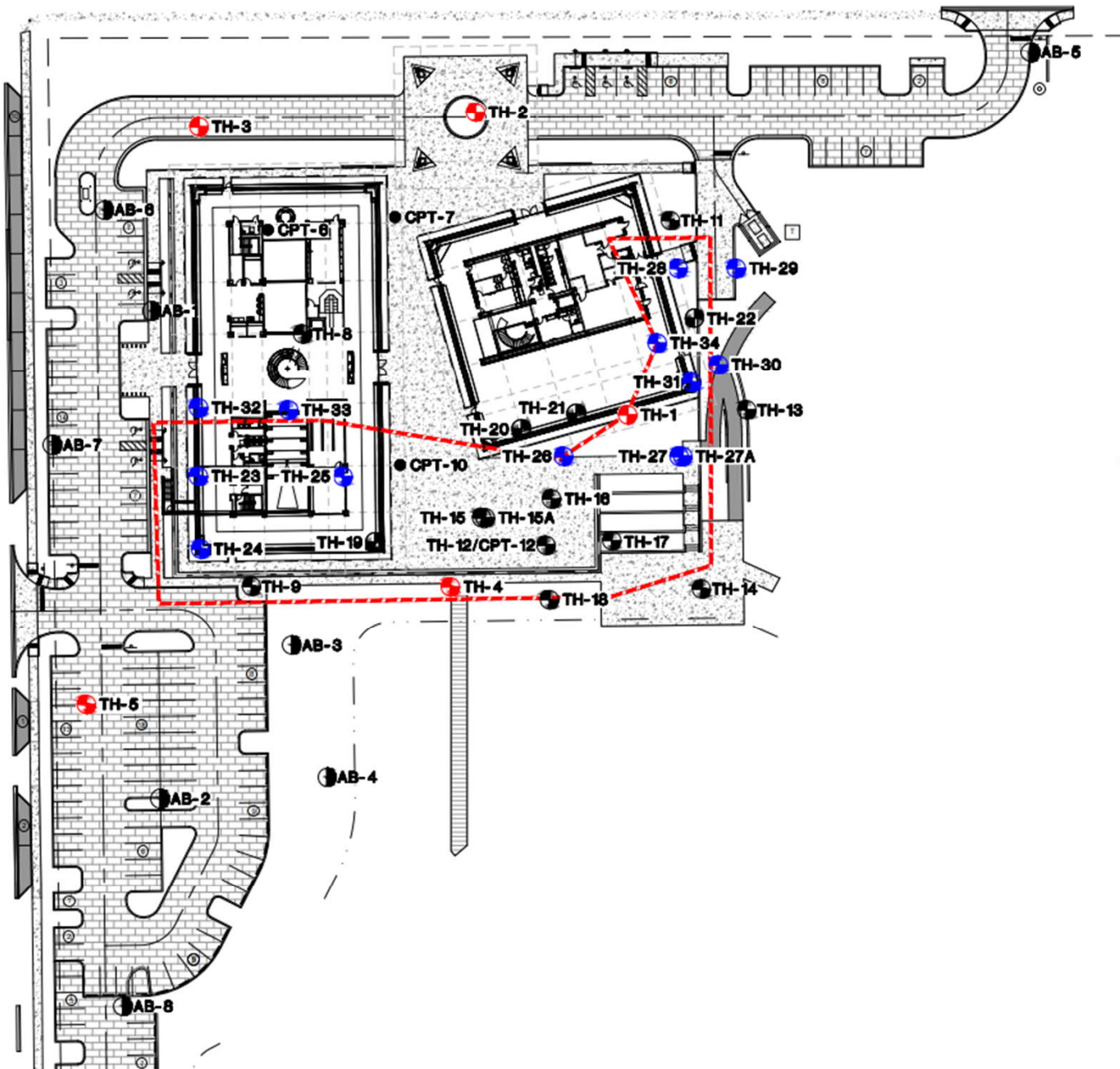
Drawn by	Checked by	Designed by	Approved by
SW	JWC		JAY W. CASPER, P.E.
2-7-03	2-7-03		

ENGINEER OF RECORD:
JAY W. CASPER
P.E. No. 36330
NODARSE & ASSOCIATES, INC.
1675 LEE ROAD
WINTER PARK, FLORIDA 32789



CITY OF WINTER PARK		
ROAD NO.	COUNTY	FINANCE PROJECT ID.
-	ORANGE	-

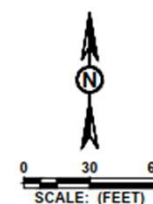
SHEET TITLE	SHEET No.
REPORT OF SPT BORINGS FOR STRUCTURES	-
PROJECT NAME:	
PROPOSED SOFTBALL STADIUM	
LAKE ISLAND PARK	
ORANGE COUNTY, FLORIDA	



LEGEND

- TH STANDARD PENETRATION TEST (SPT) BORING LOCATION (PERFORMED JANUARY 2020)
- TH STANDARD PENETRATION TEST (SPT) BORING LOCATION (PERFORMED MARCH 2018)
- TH STANDARD PENETRATION TEST (SPT) BORING LOCATION (PERFORMED JANUARY AND FEBRUARY 2018)
- TH STANDARD PENETRATION TEST (SPT) BORING LOCATION (PERFORMED APRIL 2016)
- AB AUGER BORING LOCATION (PERFORMED JANUARY 2018)
- CPT CONE PENETRATION SOUNDING LOCATION (PERFORMED JANUARY 2018)
- ESTIMATED MUCK REMOVAL ZONE FOR ESTIMATING PRELIMINARY QUANTITIES (ACTUAL QUANTITIES WILL BE DETERMINED DURING CONSTRUCTION)

NOTE: THE BASE MAP FOR THE BORING LOCATION PLAN IS A SITE PLAN PROVIDED BY THE CITY OF WINTER PARK ON 1-17-20.

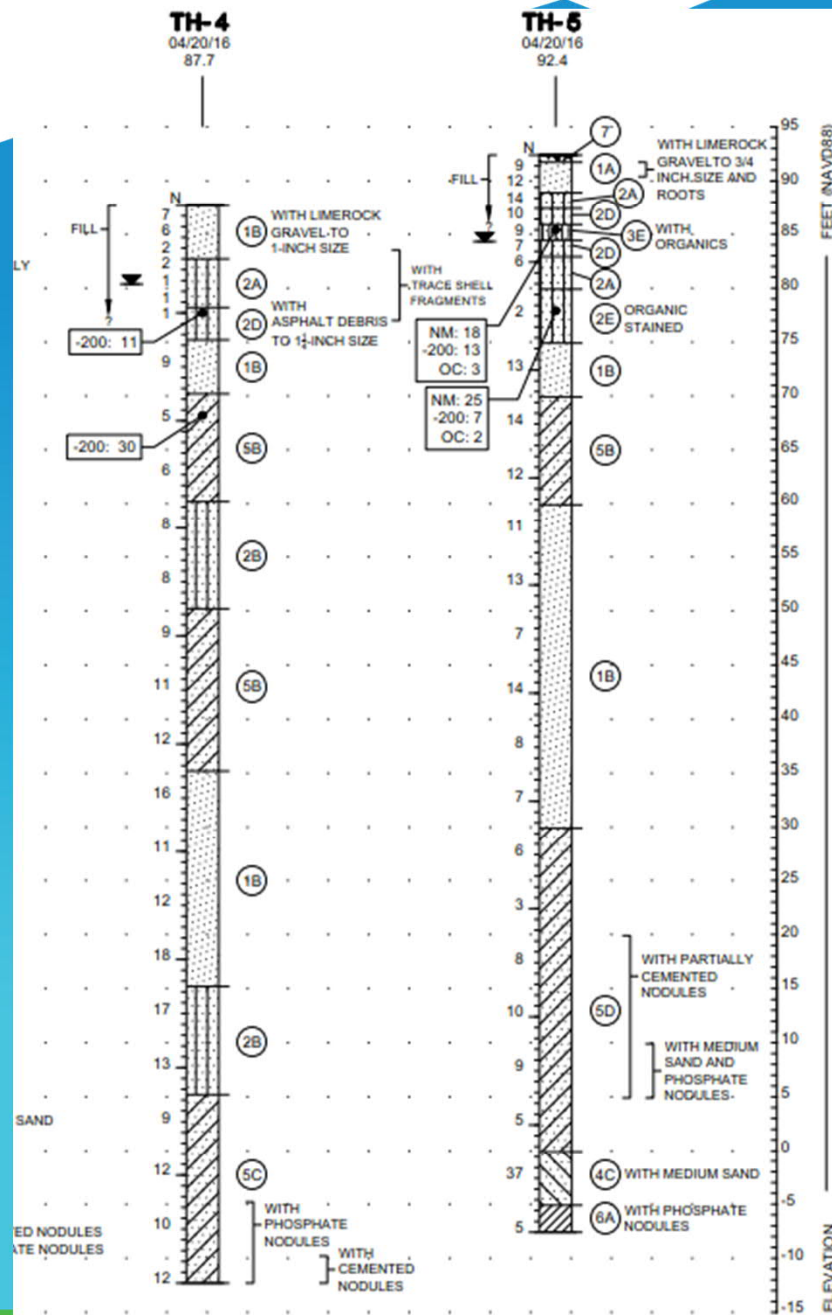


BORING/SOUNDING LOCATION PLAN

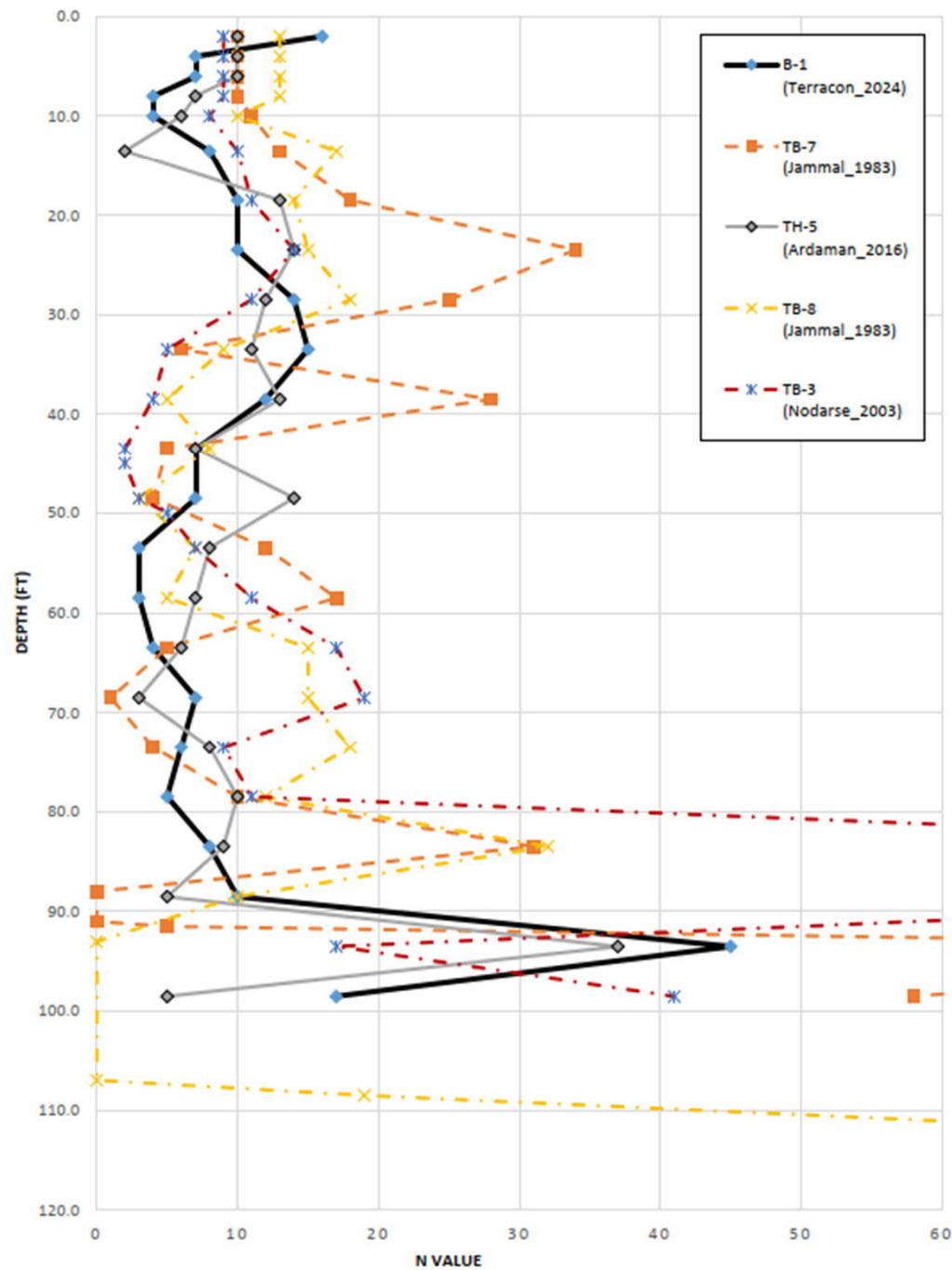
Ardaman & Associates, Inc.
Geotechnical, Environmental and
Materials Consultants

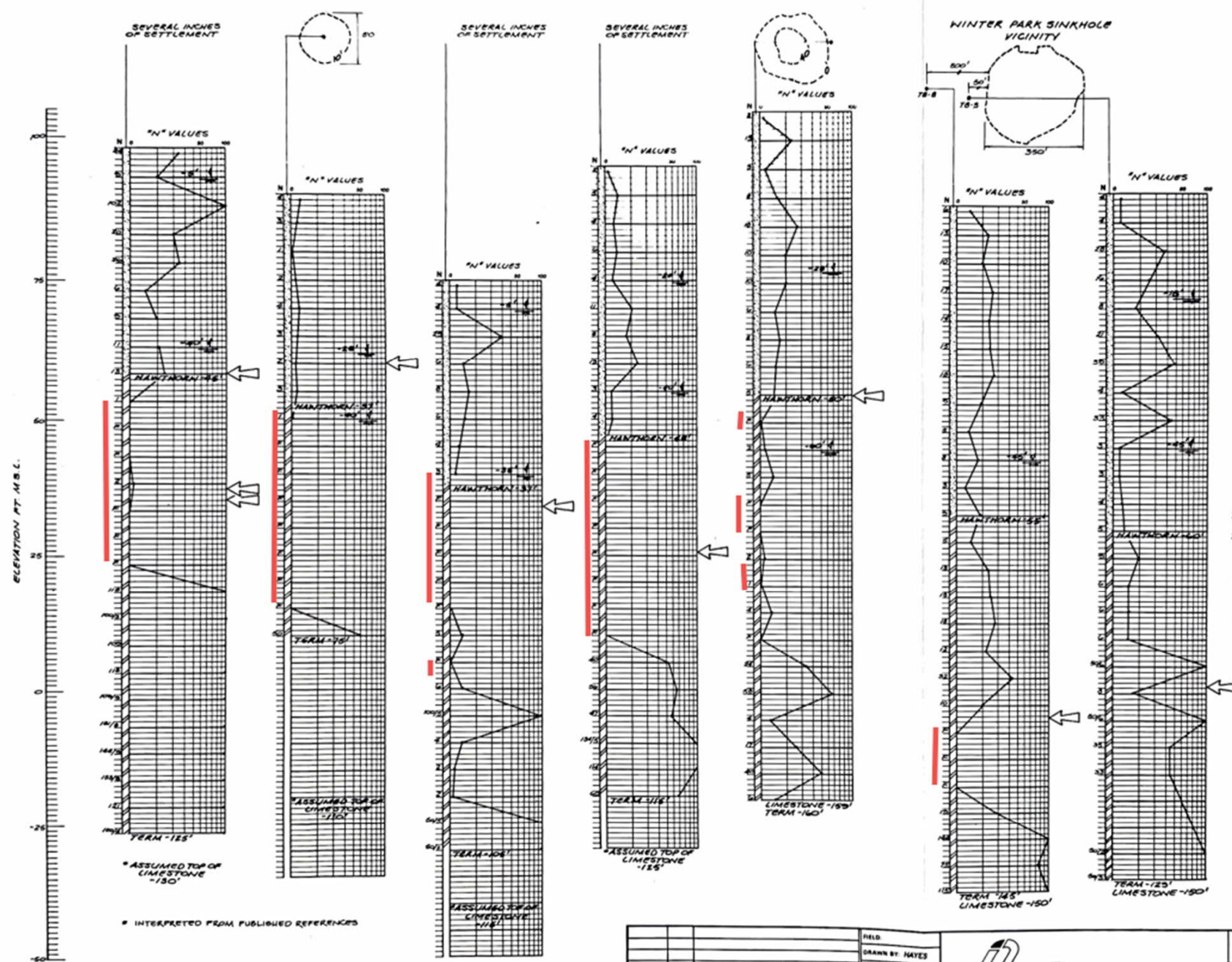
SUBSURFACE SOIL EXPLORATION
LIBRARY AND EVENT CENTER
SOUTHEAST CORNER OF
MORSE BLVD. AND HARPER ST.
WINTER PARK, FLORIDA

DRAWN BY: CD	CHECKED BY:	DATE: 08/07/18
FILE NO: 18-0303	APPROVED BY:	FIGURE: 2



SPT N VALUE COMPARISON





			FIELD
			DRAWN BY: HAYES
			CHECKED BY: SEJ
DATE	BY	DESCRIPTION	APPROVED BY: SEJ
REVISION			SCALE



CITY of WINTER PARK SINKHOLE INVESTIGATION		
INDICATORS of SINKHOLE PRONE AREAS		
DATE MAR '82	PROJECT NO. 81-374-B	FIGURE No. 10-B

Conclusion: We did not find an elevated risk of sinkhole occurrence.

Questions?



Lake Killarney Board

agenda item

item type

Staff Updates

meeting date

March 6, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Orange County Update

- Storm Pipe Update
- Orange County Lake Killarney Newsletter 2024

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

1. Orange County Lake Killarney Newsletter 2024

Lake Killarney

Newsletter



Inside this Issue

- 2 Lake Killarney Municipal Service Taxing Unit
- 3 Collaboration Between Orange County & Winter Park, Lakefront Stewardship Guide, Fun Facts
- 4 Curb Inlet Baskets
- 5 Alum Treatment
- 6 Water Atlas, Living with Alligators,
- 7 Concerned About Algae

2024 EDITION



Lake Killarney Municipal Service Taxing Unit (MSTU)

The Lake Killarney MSTU has a seven-member advisory board known as the Lake Killarney Advisory Board (LKAB). The advisory board is comprised of area residents appointed by the Orange County Board of County Commissioners. The LKAB recommends projects for lake improvements including invasive aquatic plant management, water-quality improvement projects, vegetation-enhancement projects, educational newsletters, and other projects related to lake conservation issues.

Current Advisory Board Members

Conrad Necrason, Chairman

Langdon Stanley, Vice Chairman

David Hunter

Michael Gorenflo

Carl W. Jenne

Heath Costantine

Catherine Weeden

The LKAB meets on a quarterly basis at the City of Winter Park Police Department, in the Ray Beary Community Meeting Room, located at 500 N. Virginia Ave., Winter Park, FL 32789. All are welcome to attend.

Use the QR Code below to visit the Orange County Calendar for current meeting schedules or contact Orange County Lake Liaison Nidia Volpe, Senior Environmental Specialist, at 407-836-1532 or Nidia.Volpe@ocfl.net.



Useful Links

Orange County

Environmental Protection Division

www.orangecountyfl.net/Environment.aspx

Orange County Water Atlas

www.orange.wateratlas.usf.edu/

University of Florida Center for Aquatic and Invasive Plants

<https://plants.ifas.ufl.edu/>

Florida Fish & Wildlife Conservation Commission

Invasive Plant Management Section

www.myfwc.com/wildlifehabitats/habitat/invasive-plants/

What is a Municipal Service Taxing Unit (MSTU)?

A Municipal Service Taxing Unit (MSTU) is created by property owners in a defined geographical area who vote to levy a tax to support improvements to the area. The Orange County Environmental Protection Division (EPD) manages MSTU districts that deal with local lake concerns. The map below shows the boundary of the Lake Killarney MSTU in yellow. All parcels are located within unincorporated Orange County. The funds are collected on each owner's property tax bill annually. These funds are placed into an account that is overseen by Orange County and can be used only for the purpose of general improvement and enhancement of Lake Killarney.

How is the MSTU calculated?

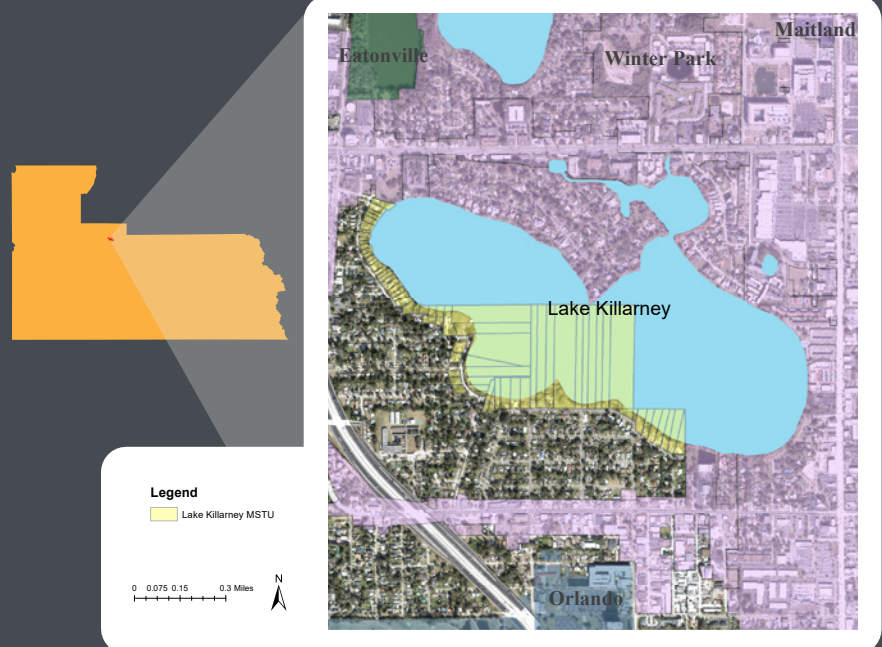
An MSTU is based on ad valorem (value) taxes using a millage rate. Property owners pay different amounts based on their property value. The millage rate is a rate in dollars, per \$1,000 of taxable value, set by each taxing authority based upon tax revenue required in their annual budget. The current millage rate for the Lake Killarney MSTU (per 2023 tax bill) is 0.8613. Here is how the MSTU amount is calculated:

$\text{Taxable value of a property} \div 1,000 \times \text{millage rate.}$

An example of what a homeowner whose property's taxable value is \$350,000 would pay: $\$350,000 \div 1,000 \times 0.8613 = \301.46 per year.

Where does my money go?

The MSTU is a funding mechanism for lake management services such as aquatic plant management, water quality improvement projects, vegetation enhancement, educational newsletters, outreach, and other lake conservation projects.



Collaboration Between Orange County & Winter Park

Orange County and the City of Winter Park work collaboratively to manage Lake Killarney. The two jurisdictions entered into an Interlocal Agreement for the aquatic plant management (APM) on Lake Killarney. Winter Park has agreed to act as the single agency for the sole purpose of the lake-wide management and control of nuisance exotic plant species including hydrilla (*Hydrilla verticillata*), water hyacinth (*Eichhornia crassipes*), and other exotic vegetation. The Lake Killarney MSTU may be used to reimburse the City of Winter Park for APM expenses. The City of Winter Park also manages the drain wells located on the southern portion of Lake Killarney.

Water quality/aquatic plant concerns from residents living in unincorporated Orange County should be directed to Orange County Lake Liaison Nidia Volpe at lakes@ocfl.net. Aquatic plant management concerns will be forwarded to the City of Winter Park for their review and implementation.

Water quality/aquatic plant concerns from residents living in Winter Park should be directed to Lakes Manager Joseph Cordell at jcordell@cityofwinterpark.org or 407-691-7829. The City of Winter Park periodically sends out helpful information via their newsletter. Use the QR code to sign up for the City of Winter Park Lakes Division Notifications.



The City of Winter Park holds monthly meetings for the Winter Park Lake Killarney Board. Visit <https://cityofwinterpark.org/government/meetings/> for additional information.

Orange County residents can also contact 311 to report a concern. Orange County residents can also contact 311 to report a concern. Orange County 311 is the non-emergency help and information center that serves County residents. Use the QR code to obtain additional information, including ways to access 311.



Have you seen the Stewardship Guide for Orange County Lakefront Homeowners?

Topics covered, include:

- Shoreline Vegetation & Permitting
- The Truth About Florida's Lakes
- Lake-Friendly Landscaping
- Pools, Spas & Aquariums
- Lake-Friendly Fertilizing
- Conservation Easements
- Lake-Friendly Shoreline
- Ramps and Seawalls
- Runoff Rundown
- Stormwater 101
- Berms & Swales
- Buffers
- Docks



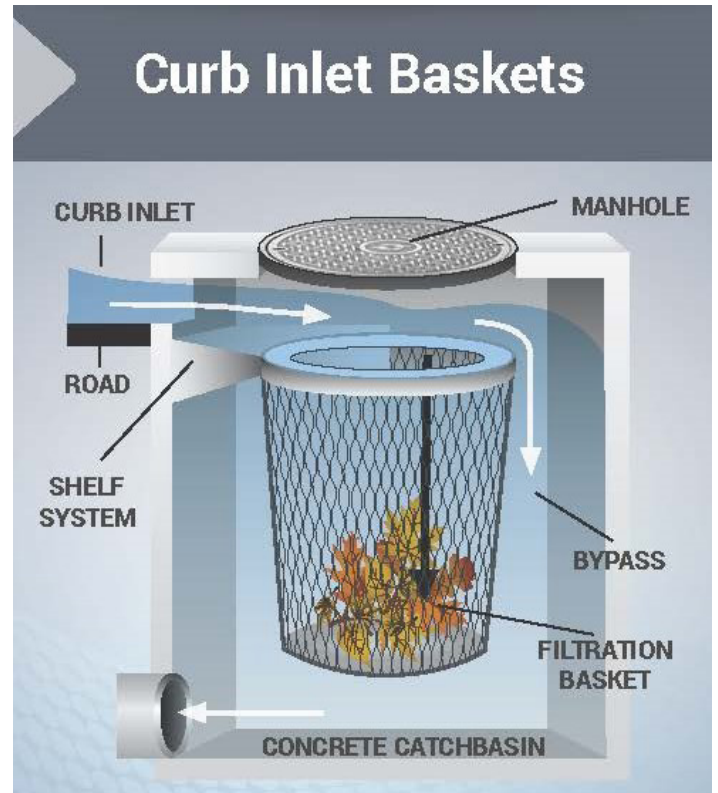
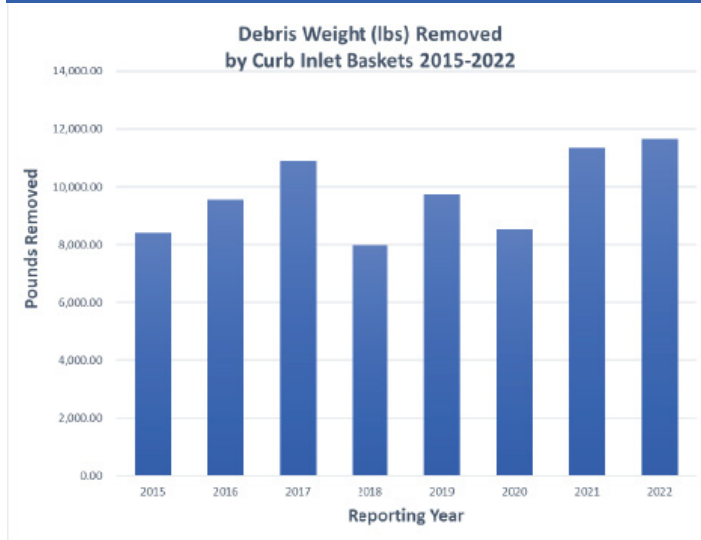
Fun Facts about Lake Killarney and the Lake Killarney MSTU:

- Lake Killarney is a 236-acre private lake situated in unincorporated Orange County and the City of Winter Park.
- Average depth of the lake is approximately 15 feet and a maximum depth of approximately 30 feet.
- Normal high water elevation is 82.04 feet North American Vertical Datum.
- The lake is located within the Howell Branch Drainage Basin.
- The resolution of the Board of County Commissioners establishing a Special Purpose Taxing District for Lake Killarney was approved in 1973.
- There are 70 parcels within the MSTU.
- The millage rate is 0.8613.
- The estimated annual revenue for Fiscal Year 2024 is \$26,992.

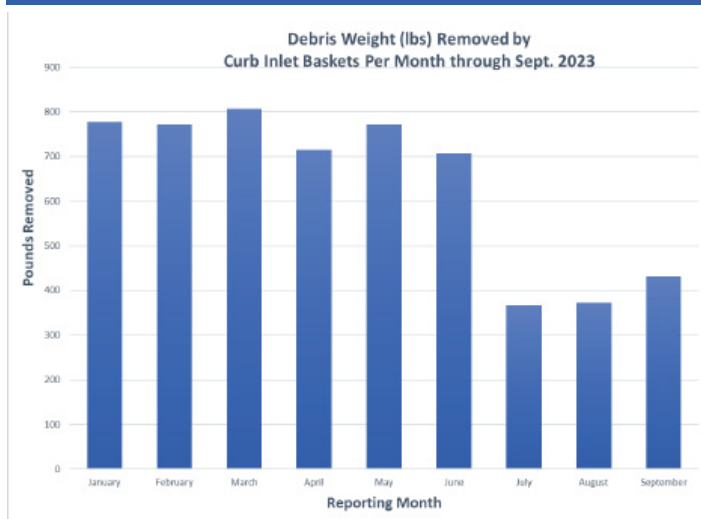
Lake Killarney Curb Inlet Baskets

Curb inlet baskets are a best management practice (BMP) used on Lake Killarney. The curb inlet baskets trap sediment and debris, all while allowing runoff water to pass through the filter and exit through the storm drain system. The Lake Killarney MSTU funds the cleaning of 24 curb inlet baskets on a monthly basis. The figure below depicts the design of a typical curb inlet basket.

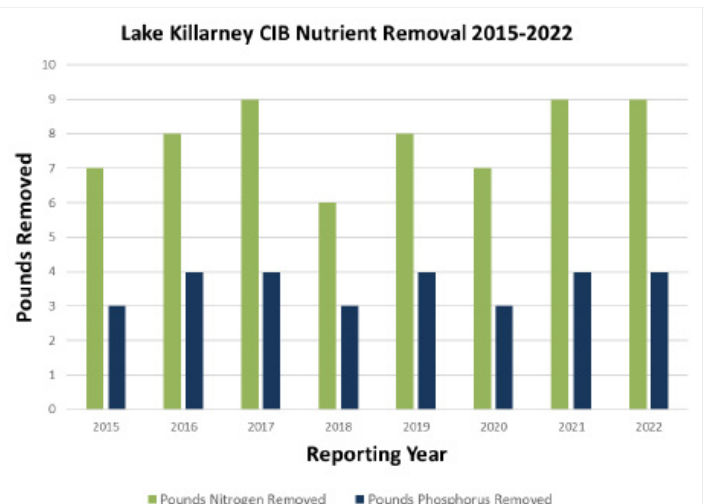
The graph below shows the pounds of debris (*leaves, sediment, and trash*) removed by the curb inlet baskets in the vicinity of Lake Killarney from 2015 to 2022. It is estimated that these baskets have captured over 78,000 pounds of material since 2015, which equates roughly to 10,000 pounds every year.



The graph below shows the pounds of debris (*leaves, sediment, and trash*) removed by curb inlet baskets in 2023 from January through September. A total of 13 baskets were removed in June of 2023 while a stormwater pipe was repaired. The curb inlet baskets were re-installed in October of 2023 once a damaged stormwater pipe in the vicinity was repaired.



It is estimated that since 2015, 63 pounds of total nitrogen and 29 pounds of total phosphorus have been prevented from discharging into Lake Killarney due to the use of curb inlet baskets.



The curb inlet baskets installed within the Lake Killarney watershed have helped to capture debris such as dirt, leaves, and trash before it enters the lake. If not captured, the debris could have transported harmful pollutants into the lakes and contributed to algal blooms caused by nutrient overloading.



ALUM TREATMENT FOR SEDIMENT INACTIVATION

Aluminum sulfate, commonly known as alum, is a nontoxic material used in the treatment of lakes with high phosphorus loading. The aluminum sulfate reacts with the water to form the precipitate aluminum hydroxide, also known as floc. This floc then binds with the available phosphorous in the water column to create the insoluble aluminum phosphorus compound. The floc binds with the phosphorus, and sometimes other suspended particles in the water, as it settles to the bottom of the lake. This process helps remove phosphorus and other nutrients and particles that can be used by different algae organisms. The phosphorus that binds to the floc remains in the sediments of the lake and can no longer be used by algae in the water column. This process helps to reduce excess nutrients and the risk for algae blooms within the lake and improve overall water quality.

A sediment inactivation project was performed in Lake Killarney during September-October 2015, February-March 2016, September-October 2016, and March 2017. The alum applications resulted in substantial improvements in water quality characteristics within Lake Killarney, with large reductions in water column concentrations of total nitrogen, total phosphorus, and chlorophyll-a.

Historical water quality data for Lake Killarney was updated and trend analyses were conducted to evaluate water quality stability. Trophic State Index (TSI) is a summary statistic which incorporates measured concentrations of significant parameters in lake systems and is often considered the best overall indicator of the health of a lake system.

Trophic State Index	Trophic State Classification	Water Quality
0-59	Oligotrophic, Mesotrophic, Mid-Eutrophic	Good
60-69	Mid-Eutrophic through Eutrophic	Fair
70-100	Hypereutrophic	Poor

Calculated TSI values in Lake Killarney improved from eutrophic conditions prior to the application to primarily oligotrophic and oligotrophic-mesotrophic conditions following the application. Water clarity improved from pre-treatment Secchi disk depths ranging from 0.5 to 1.0 meters to post-treatment depths ranging from 2 to 3 meters. Visual characteristics of Lake Killarney improved substantially following the sediment inactivation treatments, with improved water column appearance and visibility. The alum sediment inactivation project was successful in inactivating approximately 87% of the available phosphorus within the sediments of Lake Killarney.

Alum sediment treatments have been shown to be effective from 5 to 20 years in other Florida lakes, depending upon the sediment accumulation rate within the lake from the remaining phosphorus sources. Carefully planned applications of alum can provide an abundance of aluminum which can intercept groundwater inputs of phosphorus over a period of many years. As a result, the alum application for Lake Killarney was designed to eliminate phosphorus from the combined inputs resulting from internal recycling as well as groundwater seepage.

Water Atlas

The Orange County Water Atlas (www.orange.wateratlas.usf.edu/) is designed to provide County residents, scientists, professionals, and planners with comprehensive and current water quality, hydrologic, and ecological data. It also includes information about recreational opportunities and a library of scientific and educational materials on water resource issues. Typically, the scientists and residents who live and work on water resources have found it difficult to gather the information they need from the myriad of agencies that collect the related data. To solve this problem, the Atlas was conceived as a "one stop information shop" for concerned residents and scientists alike. The Atlas functions as a warehouse for a variety of water resources information, including documents and educational links. The Atlas is a rich resource that educates residents about the data presented and gives scientists easy access to the specialized information they need. We encourage you to use the Atlas as a tool to help in maintaining and improving our vital water resources.

Information specific to Lake Killarney can be found at www.orange.wateratlas.usf.edu/waterbodies/lakes/140277/.



LIVING WITH ALLIGATORS



These amazing animals are important to Florida's natural areas and found throughout the state.

A few simple rules to co-exist with alligators:

NEVER feed an alligator



Keep pets away from water's edge



Swim during the day and only in designated areas



If you see an alligator

Call FWC's toll-free Nuisance Alligator Hotline at **866-FWC-GATOR (866-392-4286)** if you're concerned about an alligator.



site search

HOME

DISCOVER

MAPS / DATA

LEARN

PARTICIPATE

Lake Killarney

Overview

Water Quality

Levels & Flows

Habitats & Ecology

Recreation

Photos

Related Information

Lake Killarney, covering 236 acres, is a Private lake situated in Unincorporated Orange County, with the associated WBID(s): 2997X, 2997Z.

This waterbody is located within: [Howell Branch Watershed](#)

MSTU/MSBU Lake

Advisory Board

Report Pollution

Become a Volunteer



22 SAMPLING LOCATIONS

14,977 SAMPLES

EARLIEST SAMPLE 07/01/1959

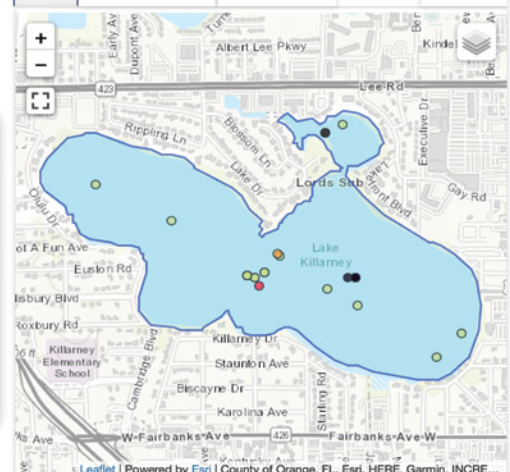
LATEST SAMPLE 10/09/2023

Download Data

Waterbody Characteristics

[Learn More About Water Quality in Florida](#)

Map Characteristics Datasources Explore



Map Legend

- Water Quality Sampling Site
- Combination Sampling Site
- Hydrologic Sampling Site
- Other Sampling Site
- Rainfall Sampling Site
- Waterbody Outline

CONCERNED ABOUT ALGAE?



Have you seen reports of algae in your lake? There is a new reporting and monitoring program maintained by the Florida Department of Environmental Protection (FDEP) that tracks harmful algal blooms (HABs). Although common in most of Florida's aquatic environments, a HABs are blooms of cyanobacteria that have the potential to produce harmful toxins. Anyone can report blooms and track them on the Algal Bloom Monitoring Dashboard located at floridadep.gov/AlgalBloom.

Frequently Asked Questions

What happens after a bloom is reported?

- If warranted, the FDEP schedules sampling of the waterbody.
- Results of the sampling are posted to the dashboard floridadep.gov/AlgalBloom.
- If a bloom or toxins are detected, the Florida Department of Health (DOH) will issue a warning or alert for the waterbody. The Orange County Environmental Protection Division (EPD) will also send out an advisory.
- The waterbody may be tested again in 4 to 6 weeks.

What should I do if a bloom or toxin is detected on my lake?

- Refrain from recreating on the lake, including swimming, fishing and boating.
- Keep pets away from the water and do not let them drink from it.
- Refrain from using lake water to irrigate your lawn or vegetation.



How will I know if it is safe to resume water activities?

- Once the bloom is over and there are no longer toxins present, DOH and EPD will lift their advisories.

How can I get the most up-to-date information?

- Make sure you review the FDEP dashboard at floridadep.gov/AlgalBloom.
- Sign up for Orange County's advisory smartphone apps here: www.ocfl.net/alerts.

Contact and Resource Information:

Florida Department of Environmental Protection - Algae Blooms

<https://floridadep.gov/AlgalBloom> or call FDEP at 855-305-3903

Florida Department of Health - Algae Blooms

<https://www.floridahealth.gov/environmental-health/aquatic-toxins/harmful-algae-blooms/index.html>

Environmental Protection Agency - Algae Blooms

www.epa.gov/nutrientpollution/harmful-algal-blooms

Florida Fish and Wildlife Conservation Commission - Cyanobacteria

<https://myfwc.com/research/wildlife/health/cyanobacteria/>





3165 McCrory PL, Suite 200
Orlando, FL 32803

You are getting this newsletter

because you live within the boundary of
the Lake Killarney Municipal Service Taxing
Unit (MSTU) or live within the contributing
drainage area.

Printed on Recycled Content Paper 

Newsletter

Lake Killarney





Lake Killarney Board

agenda item

item type

Staff Updates

meeting date

March 6, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Lakes Management

- Natural Resources Conservation Services Update
- Maintenance & Efforts
- Dock Violation
- Water Quality

Follow-Up Items

- Summary of Work Session

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

1. Lake Update 03.2024

LAKE UPDATE:

- Sediment Removal for Natural Resources Conservation Services (NRCS)
- Maintenance and Efforts:
 - 250 gal Debris Removed
 - 110 gal Trash Removed
- Follow up
 - Dock Violation
 - Water Quality

Sediment Removal Killarney Canal





Lake Killarney Board

agenda item

item type

Staff Updates

meeting date

March 6, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Stormwater Management

- CIP Update
- Nicolette Pond, Killarney Dr. Pipe Replacement, & Lake Bell Weir Project Timeline
- Lake Front Construction Updates

Follow-Up Items:

- BMP Feasibility Study for Killarney Dr Outfall Consolidation
- Outfall Condition Update
- Exfiltration System Maintenance Agreement Update

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact**

attachments

1. SW Update 3.24

Stormwater Staff Update

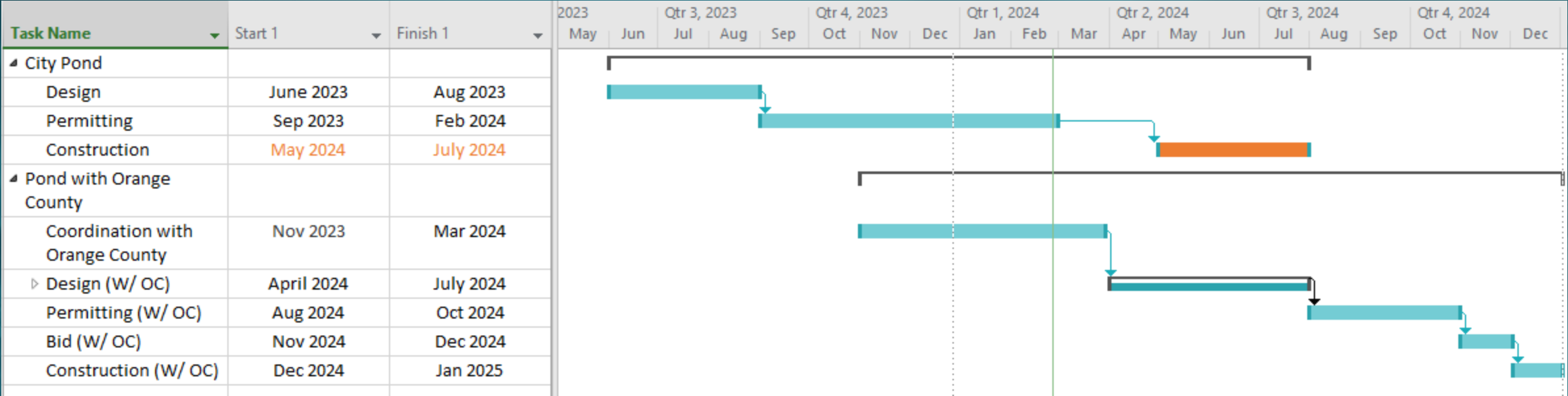
Lake Killarney Board Stormwater CIP – Fiscal Year 2024

ACCT #	CIP Title & Description	Original Year Funded	Current Balance	Status/Comments
565200	Drainage Improvements - Recent years of unusually heavy rainfall events have revealed several substandard drainage conditions in various locations throughout the City.	Annually Funded	\$129,200	Several in-house drainage improvements projects for 2023-24 - Completed replacement of 70ft of 24 inch RCP crossing Joeline Court, and 120ft of 18 inch HDPE at the north end of Laurel Road. Upcoming - add another inlet and outfall pipe at 1622 Arbor Park Drive, increase pipe size at 1642 Arbor Park Drive, storm pipe replacement/relocate at 2601 & 2631 Temple Drive.
				1) <u>Palmer at Old England outfall repair</u> - Stormwater outfall pipe replacement required. Design is 30% complete, survey is now complete.
				2) <u>Stormwater Outfall Dredging</u> - The City recently entered a new contract, dredging on several stormwater outfalls started in Aug 2023, and will continue as needed.
				3) <u>Ward Park ponds construction</u> - Estimated cost \$150k. NE and NW Pond excavation and sodding is complete. The piping to be installed early 2024.
				4) <u>Pipe Repair at Summer Way</u> - Corrugated metal pipe replacement. 35' has been replaced, another 162' is in progress. Estimated completion late April 2024.
565203	Lk. Bell Weir Outfall Improvements -	2009	\$69,223	Repairs may be required on the Lake Bell outfall weir. Met with consultant on 6/30/23, kick-off meeting with consultant 10/24/23, preliminary improvent plan to be developed Feb 2024.
565221	Seminole County Ditch Piping (along Arbor Park Dr) – Drainage ditch behind the homes along Arbor Park Drive has a shared drainage basin with Seminole County. Funding is provided for the design and construction to pipe the ditch.	2016	\$733,395	The Interlocal Agreement was approved by the City Commission and by the Seminole County Commission. 60% plans completed and submitted to Seminole County. Process to permit with SJRWMD currently underway.
565205	Nicolet Ave Stormwater Pond – complete the design and construction of a stormwater treatment pond on City purchased properties located at 796 & 808 Nicolet Avenue	2023	\$200,000	Commission approved \$200,000 in the City's FY'23 budget. Application for general permit in progress.
565217	Stirling Bridge Replacement	2024	\$250,000	Updates required for price estimate.
565210	Fawsett Road CDS Unit	2024	\$200,000	Seeking permit exemption with SJRWMD.
	Curb Implementation	2024	\$50,000	
	TOTALS			
3023406	ACTIVE STORMWATER CIP's		\$1,631,818.00	BALANCE TOTAL

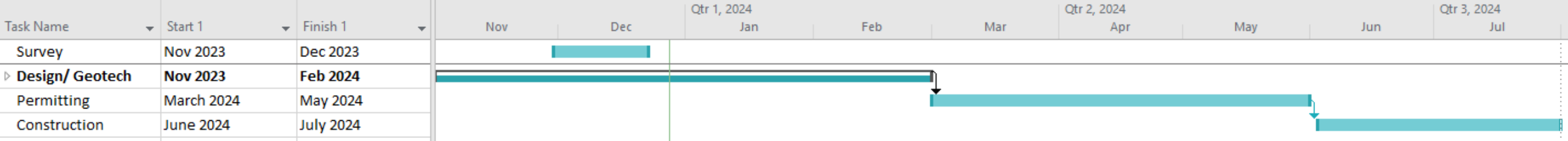
Staff Update - Infrastructure Projects

Lake Killarney Board

Nicolet Pond – Estimated Schedule



Killarney Dr Pipe Replacement – Estimated Schedule



Staff Update - Infrastructure Projects

Lake Killarney Board

Lake Bell Weir Repair – Estimated Schedule

Task	Task Completion date
Task 1 – Geotechnical Evaluation	1/10/2024
Task 2 – Survey	12/10/2023
Task 3 - Wetland Delineation / Wildlife Survey	11/17/2023
Task 4 – Preliminary Improvement Plan	3/2024
Submit to plans to NRCS	3/2024
Task 5 – Design Development	4/1/2024
Task 6 – Permitting*	TBD
Task 7 – Final Design	TBD

Stormwater Staff Update

Lake Killarney Board



Stormwater Staff Update

Lake Killarney Board

- Follow-up items:
 - BMP feasibility study for Killarney Dr Outfall Consolidation (when available)
 - Outfall Condition Update
 - Exfiltration System Maintenance Agreement Update



Lake Killarney Board

agenda item

item type

Board Comments

meeting date

March 6, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Discussion of Public Comments Received

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item

item type

Upcoming Agenda Items

meeting date

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Victoria Tabor, Administrative Coordinator II

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Upcoming Agenda Items

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

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Summary of Meeting Action Items

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None