



Lake Killarney Board Regular Meeting

Agenda

June 7, 2023 @ 10:00 am

City Hall Commission Chambers

401 S. Park Ave

Winter Park, FL 32789

welcome

Agendas and all backup material supporting each agenda item are accessible via the city's website at cityofwinterpark.org/bpm and include virtual meeting instructions.

assistance & appeals

Persons with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk's Office ([407-599-3277](tel:407-599-3277)) at least 48 hours in advance of the meeting.

"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**
 - a. [Select Chair and Vice Chair](#) 5 Minutes
 2. **Consent Agenda**
 - a. [Approve the minutes of regular meeting May 3, 2023](#) 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 \(BLDR-2023-0455\) 2146 Lake Dr.](#) 10 Minutes
 - b. [Boathouse/Dock Application \(BLDR-2023-0509\) 2024 Lake Dr.](#) 10 Minutes
 - c. [Seawall Application Permit \(SAP-2023-0020\) 2024 Lake Dr.](#) 10 Minutes
 5. **Action Items**
 - a. [Flood Management Guide](#) 5 Minutes
 6. **Non-Action Items**
 7. **Staff Updates**
 - a. [Lakes Management](#) 10 Minutes
 - No Water Quality Data Update
 - Small Treatments
 - Eelgrass Expanding
 - Lake Bell weir board
 - NRCS Update on sediment removal
 - Maintenance & Efforts
 - Geosyntec Scope of Work
 - Board Appreciation Save the Date - June 29th @ 5:30 p.m.
 - Telemetry Station Update
 - Fertilizer Rules
 - b. [Stormwater Management](#) 10 Minutes
 - CIP Update
 - Infrastructure Projects: Nicolet Pond, Killarney Dr. pipe replacement
 - Small Repairs: Lake Dr. pothole
 - Current Lakefront Construction
 - Killarney Estates Subdivision Property Management Update

- Water Elevation Policy Draft for Lakes and Stormwater
- Orange County Stormwater Improvement Update
- Library and Event Center - Stormwater Management As-Builts Update
- Street Sweeping - Killarney Drainage Basin
- CRS Update

Follow-up Items:

- BMP feasibility study for Killarney Dr. Outfall Consolidation (when available)
- Outfall Condition Update

- c. [Orange County Update](#) 10 Minutes
- Presentation on Pool Pollution (June 28th)
 - Killarney Drive 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	Call to Order	meeting date	June 7, 2023
prepared by	Victoria Tabor	approved by	
board approval			
strategic objective			

subject

Select Chair and Vice Chair

motion / recommendation

background

alternatives / other considerations

fiscal impact



Lake Killarney Board

agenda item

item type	Consent Agenda	meeting date	June 7, 2023
prepared by	Tatia Ghviniashvili	approved by	
board approval			
strategic objective			

subject

Approve the minutes of regular meeting May 3, 2023

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[Draft Minutes.pdf](#)



Lake Killarney Board Meeting Minutes

May 03, 2023 at 10:00 a.m.

City Hall, Commission Chambers
401 S. Park Avenue | Winter Park, Florida

Present

Jeanne Wall, William Voecks, David Dickerson, Carolyn Minear, Joyce Cunningham, Jason Ellison and Ellen Hencken; Board Coordinator Tatia Ghviniashvili.

Staff Present

Director of Natural Resources & Sustainability Gloria Eby; Director of Public Works Charles Ramdatt; Assistant Director of Public Works Don Marcotte; Public Works Engineer Shannon Monahan; Lakes Division Manager Joseph Cordell; Natural Resources & Sustainability Administrative Coordinator Victoria Tabor.

1) Call to Order

Chair Jeanne Wall called the meeting to order 10:03 a.m.

2) Consent Agenda

- a. Approve the minutes of regular meeting April 5, 2023.

Under item 7(a), paragraph one, indicate that impaired criteria are shown as an added line on the charts. In the following paragraph, include the number amount of NRCS funding (4.4 million dollars).

William Voecks arrived at 10:05 a.m.

On page four, paragraph two, indicate that Orange County recommended an additional community meeting along with a separate meeting with representatives from Winter Park and the Kiwanis Scout House. In the paragraph following, include the statement made by Mr. Mitchell updating the board on a meeting he had with Orange County Commissioner Emily Bonilla. On page six, third paragraph down, include a sentence highlighting that a discussion on LandDesign (engineer of record) ensued, with City Manager Randy Knight directing the effort, and Don Marcotte representing himself as the point person for the effort.

On the second to last paragraph of the same page, indicate that Conrad Necrason is the Vice Chair, not Chair, of the Lake Killarney Advisory Board for Orange County. Add the words "staff be available over Friday's and weekends during the hurricane season to lower lake levels if needed" at the end of the same paragraph, along with "there needs to be an understanding of how lowering Lake Bell affects Lake

Killarney.” On page seven, paragraph one, change 2:00 p.m. to 9:00 a.m. Under item c on page seven, include that a new board member has been selected to the Orange County Lake Killarney Board, Catherine Weeden, who replaced Scott Jones. On page eight, before adjournment, include the statement of Ms. Wall thanking John Mitchell for his service on the board, and his comment regarding the importance of this board for Lake Killarney and the community.

Motion made by William Voecks to approve the minutes as amended; seconded by David Dickerson. Motion carried unanimously with a 7-0 vote.

Ms. Wall gave a brief update about the July 5 meeting having been rescheduled for June 28, in addition to the regularly scheduled June 7 meeting.

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

There were none.

4) Public Hearings

There were none.

5) Action Items

Ms. Wall gave a brief update on a letter she wrote to the City Commission urging them to consider stormwater and drainage issues, along with associated expenses for the Orange County side of Lake Killarney, before moving forward with the annexation initiative. A bid from Orange County was attached to the letter, highlighting the three solutions. A copy of the letter was sent to staff if any board member chooses to review it.

6) Non-Action Items

There were none.

7) Staff Updates

a. David Zusi - Private Lift Station Update

Mr. Zusi gave various updates pertaining to lift stations. During and following the flooding experienced in the 2022 hurricane season, lift stations continued to function and pump as designed, however, they were completely surcharged. Since then, staff has been working on various projects (some completed), to improve functionality and improve the entire system where inflow and infiltration can be eliminated. Six portable and a couple fixed generators are being budgeted for, to be readily available for emergency power outages.

The floor opened for discussion and Ms. Wall spoke on the private lift station at Lakeside and the absence of a lift station maintenance contract. Mr. Zusi made some clarifying remarks, highlighting that a contract was in place and response was quick, however, by the time the team arrived, the lift station was self-corrected. He explained that following further examination, staff learned that the contracts set in place in 2015 require monthly maintenance of lift stations by a certified plumber or sanitary sewer professional.

Staff is actively working on proposed language to the Code of Ordinance (to be brought before the City Commission for approval in June), that puts higher regulation, management, and responsibility for maintenance of those lift stations. This language will also have built in code enforcement criteria to enforce penalties. Once the draft is complete, it will be presented to this board, Lakes and Waterways, and Utilities Advisory Boards.

A discussion followed and Mr. Zusi answered various clarifying questions.

b. Lakes Management

Water quality data from January was presented, with drastic changes seen in the cove, which was directly related to algae bloom at the time. TSI (Trophic State Index) chart was shown, with reference lines added for oligotrophic, mesotrophic and eutrophic lakes. Staff defined these terms and explained their relevance to the lake. Ms. Wall asked for staff to provide a baseline/goal for the water quality data. Staff will work on providing a user-friendly visual using different criteria and measurements that are available/required. A discussion followed about phosphorus and nitrogen levels, and staff explained that the increase in phosphorus is storm related, while the increase in nitrogen could be due to algae bloom.

There were no treatments executed in April, however, follow-up treatments will be completed the week following this meeting. Ms. Eby provided an NRCS update, highlighting that staff has met with the NRCS team, and work is starting on the Winter Park Pines excavation of the ditch system (6-8-week timeframe to complete). Once completed, staff will move onto the outfall project- which includes Lake Killarney-and will keep the board updated on the exact timeline moving forward.

Lake maintenance efforts were provided, with 235 gallons of debris and 20 gallons of trash having been removed. Staff will work with Nidia Volpe of Orange County to schedule the presentation on pool pollution for the June 28 meeting.

c. Stormwater Management

Mr. Marcotte gave an updated on the Nicolet Pond project, stating that the pond design is complete and staff is working on preparing the necessary documentation for it. Ms. Monahan is applying for a permit extension request for the project, to be submitted sometime in the upcoming month, and will provide an update at the next meeting.

Ms. Monahan spoke on the Lake Dr. pothole repairs, highlighting that staff is actively working on diagnosing the problem and will provide updates when acquired. A Killarney Estates Subdivision Property Management update was provided, along with photographs to highlight the improvement made. Staff is in search of a contact at the property with access to a key for the gate behind which the pond in question stands, in order to follow-up on the improvement. An update will be provided at the next meeting.

Ms. Wall is requesting staff include the CIP list for the entire city in the agenda packets moving forward. There is no additional lakefront construction to update on since last month's meeting. A brief canal dredging update was given.

An at-length discussion about the water elevation policy draft ensued. Specifically, on options pertaining to changing lake levels for hurricane seasons in preparation for flooding. Photographs were shown of the canal that is flowing into Lake Killarney, and its current elevation. Discussion was held and Ms. Eby noted that if the lake was lowered to 81 ft., the canal would have to be closed due to dryness. She also highlighted that it would be wise to allow the study (discussed at the work session on May 02), to be funded and occur, before major decisions are made pertaining to lake level. Ms. Wall is suggesting lowering the lake level regardless and taking some action, and once the study is completed, the decision can be reevaluated.

Mr. Ellison voiced his concerns regarding prematurely lowering the lake and explained that doing so would cause the canal levels to become unusable in terms of boating. After a brief discussion, the board agreed August 1- November 30 would be an appropriate window to lower lake levels.

Motion made by Carolyn Minear that the water elevation level for the months of August 1- November 30 be maintained at 81.5 ft. for Lake Killarney (pending permit or exemption from St. John's Water Management); seconded by William Voecks. Motion carried unanimously with a 7-0 vote.

The board and staff continued the discussion and focused on adjusting lake levels when the cone of the projected storm path, issued by the National Hurricane Center, touches Florida.

Motion made by David Dickerson that staff actively monitor the National Hurricane Center forecast track during hurricane season, and if the track touches Florida, staff will instruct that the drain collars be removed so that water can drain out of Lake Killarney in anticipation of the storm. If in the subsequent days the track changes and no longer touches Florida, the collars will be replaced.

Mr. Ellison voiced further concerns about the proposed plan and highlighted how the policy that the board is attempting to adopt is far too narrow and does not leave room for adjustments.

An amendment to the motion was made by Jason Ellison to pull drain collars within five days of the projected storm if the middle of the cone is slated to hit Central Florida, and if the cone is touching Central Florida staff will pull drain collars three days in advance.

An additional amendment was made by Jeanne Wall to also include removing the 9-inch panel on Lake Bell.

The board and staff agreed to add a heading in the policy indicating that the recommendations made are for the 2023 hurricane season, and will be modified if needed once the study is completed for the 2024 season.

Motion failed for lack of second.

A new motion made by Jeanne Wall that the Lake Killarney Board adopt an interim plan for the 2023 hurricane season. This will entail staff monitor the National Hurricane Center tracker, and if the path of the storm touches Florida, staff will remove drain collars and the Lake Bell 9-inch weir. If the path of the storm changes and no longer touches Florida, collars and weir will be restored.

A further discussion was held on the proper timing for lowering the lake level.

Motion failed for lack of second.

Jeanne Wall called for the following motion: an interim plan for the 2023 hurricane season be drafted for staff to monitor the forecast from the National Hurricane Center and track any storms. If the track touches Central Florida, staff will instruct that the drain collars be removed, along with the Lake Bell 9-inch panel, so water can drain in anticipation of the storm. If the track changes, staff will continue to monitor and replace the collars if needed.

Jason Ellison moved the motion above per Jeanne Wall's request.

The motion above was amended to specify the hurricane season as August 1–November 30.

Seconded by David Dickerson. Motion carried unanimously with a 7-0 vote.

Motion made by Jeanne Wall for staff to be available 24/7 on-call for non-emergency matters August 1- November 30, and that this information is publicized; seconded by William Voecks. Motion carried unanimously with a 7-0 vote.

Motion made by Jeanne Wall to amend the motion passed above, indicating that the Lake Killarney Board request staff is available 24/7 during the months of August 1-November 30 for non-emergency issues, as they relate to lakes and waterways; seconded by Joyce Cunningham. Motion carried unanimously with a 7-0 vote.

A brief discussion ensued relating to the conversation held at the May 02 Work Session about Ms. Cunningham reviewing street cleaning policies and procedures.

Motion made by Jeanne Wall to volunteer Joyce Cunningham to work with staff in reviewing street cleaning policies, procedures, and compliance; seconded by Carolyn Minear. Motion carried unanimously with a 7-0 vote.

Ms. Wall spoke briefly on adding submersible level sensors to Lake Killarney, Lake Bell, and MLK Jr. Pond, per discussion held at a previous meeting.

Motion made by Jeanne Wall to recommend that funds are allocated to buy submersible level sensors to manage lake levels using smart technology; seconded by Jason Ellison. Motion carried unanimously with a 7-0 vote.

Staff provided As-Builds for the Library and Events Center as requested, however, Ms. Wall is seeking As-Builds as they relate to stormwater and drainage, and not just grading. After a brief discussion, Ms. Wall requested for LandDesign (engineer of record), or City Manager Randy Knight to attend a future meeting and explain why there are not signed and sealed As-Builds for the project, which include stormwater, drainage and building of the ponds.

Mr. Ramdatt asked for clarification regarding the deliverable requested, and explained that As-Builds for the entire project would include information not pertinent to the St. John's Water Management permit. After a brief discussion, he agreed to attend next month's meeting to provide an explanation if the requested information is not available at that time, and will work to resolve the issue.

Request made by Ms. Wall for staff to provide a CRS update at the next meeting.

Ms. Wall provided a brief update about the most recent Kiwanis Scout House meeting/decisions.

d. Orange County Update

There were none.

8) Board Comments

a. Discussion of Public Comments Received

A brief discussion ensued about the appropriate agenda sections for the public to make comments in.

9) Upcoming Agenda Items

a. Upcoming Agenda Items

- CIP list for the entire city.
- Update on the permit exemption with St. Johns Water Management for Nicolet Pond.
- Continued update for the Lake Dr. pothole.
- Killarney Estates Subdivision Property lock issue/update.
- Street sweeping update.
- Library and Event Center As-Builds update.
- Water Elevation Policy update.
- NRCS/dredging update.
- Pool pollution presentation (June 28).
- Orange County stormwater improvement update.
- Chair and Vice Chair appointments.
- CRS update.

All regular staff updates will continue to carry over every month.

b. Summary of Meeting Action Items

To be included in the Water Elevation Policy: staff be available 24/7 during hurricane season (August 1- November 30), staff will monitor the National Hurricane Forecast tracking during hurricane season and if the track touches Central Florida, the collars will be removed, as well as the top weir board at Lake Bell. If the track changes, they will be put back.

Ms. Cunningham will be working along with staff on the streets division to review street cleaning policies, procedures and compliance for Lake Killarney.

Recommendation was made for the city to fund the installation of a telemetry station.

Charles Ramdatt to be the representative for the Library and Event Center As-Builds updates.

Staff will also work to update the nutrient reports to be more user friendly.

10) Adjournment

The meeting adjourned at 12:58 p.m.

Minutes approved by the board on _____.
/s/ Tatia Ghviniashvili, Board Coordinator



Lake Killarney Board

agenda item

item type Public Hearings (Public participation and comment on these matters must be in-person.)	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Boathouse/Dock Application (BLDR-2023-0455) 2146 Lake Dr.

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[Boathouse/Dock App. BLDR-2023-0455](#)



LAKE SHORELINE BOATHOUSE/DOCK APPLICATIONS

BLDR-2023-0455

2146 Lake Dr

- Applicant: Michael Stasberg
- Contractor: Summertime Deck and Dock
- Structure: Boathouse
- New/Existing: Existing
- Waterbody: Killarney

Parameters

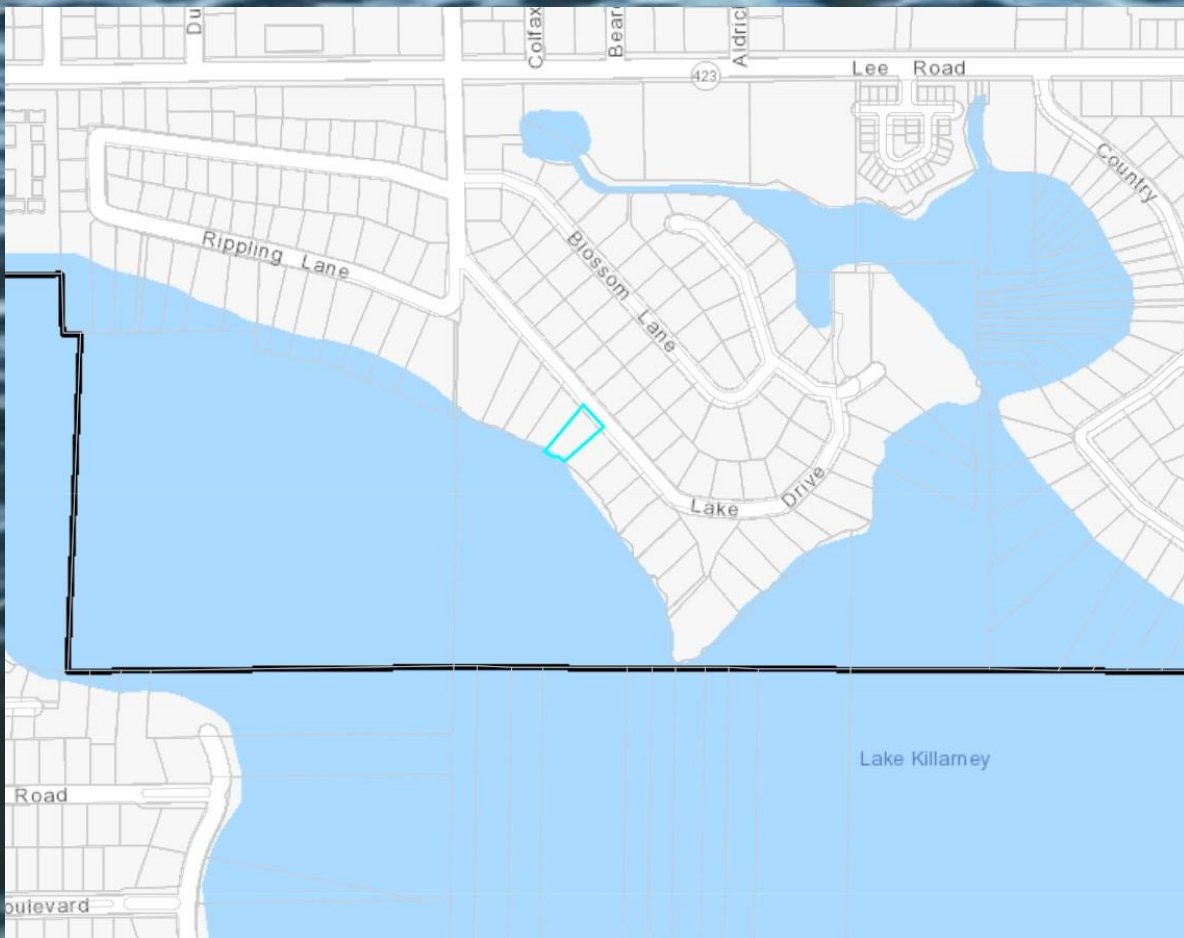
Dock Parameter	Proposed	Allowed	Variance Req.?
Total Area (ft ²) OHWL	600	600 max	No
Length from OHWL (ft)	50'	50'	No
Height of Roof (ft above deck)	11'	11 max	No
Height of Deck (ft above OHWL)	2'	2 max	No
Enclosures?	No	80 ft ² max (no plumbing/water allowed)	No
Side Yard Setback(s) (ft)	5'	10 min	Letter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

Staff Recommendation: **Approval with Revegetation**
Reviewed by: Joey Cordell

Map View

Basemap

Aerial View



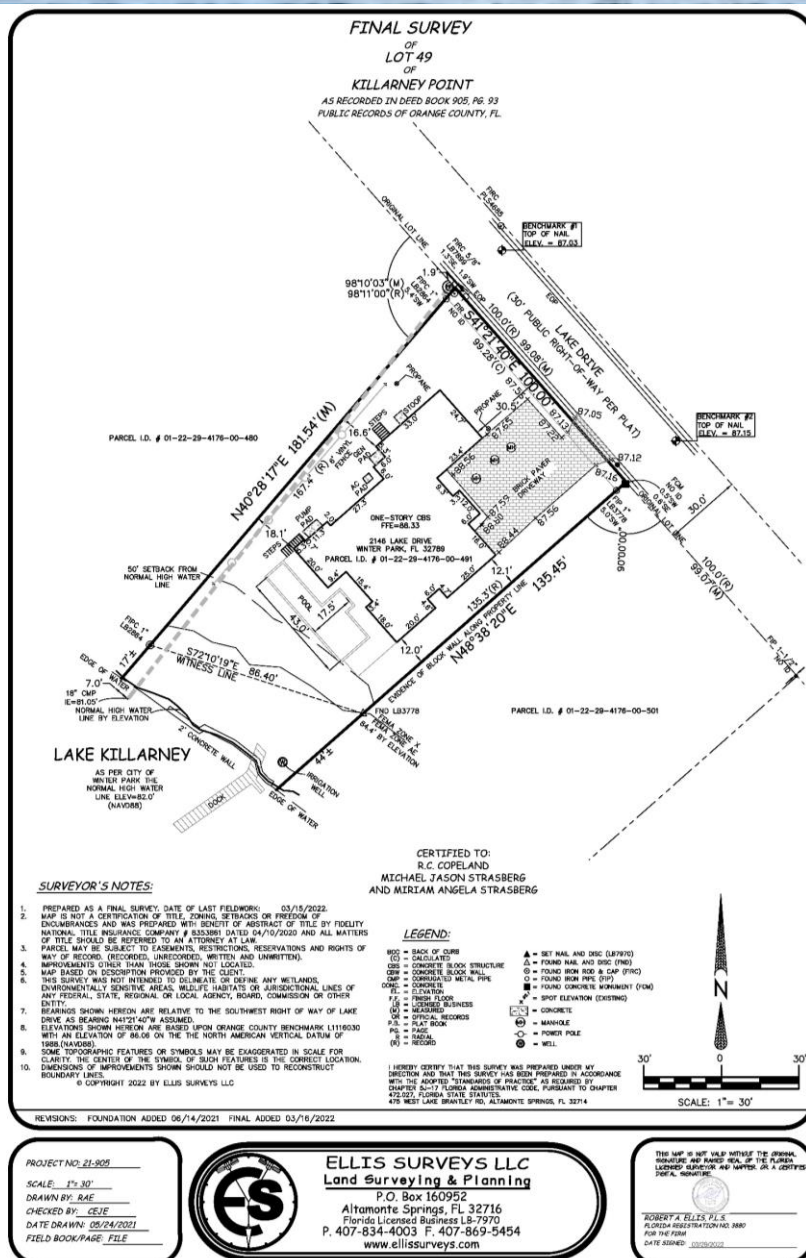
Photos



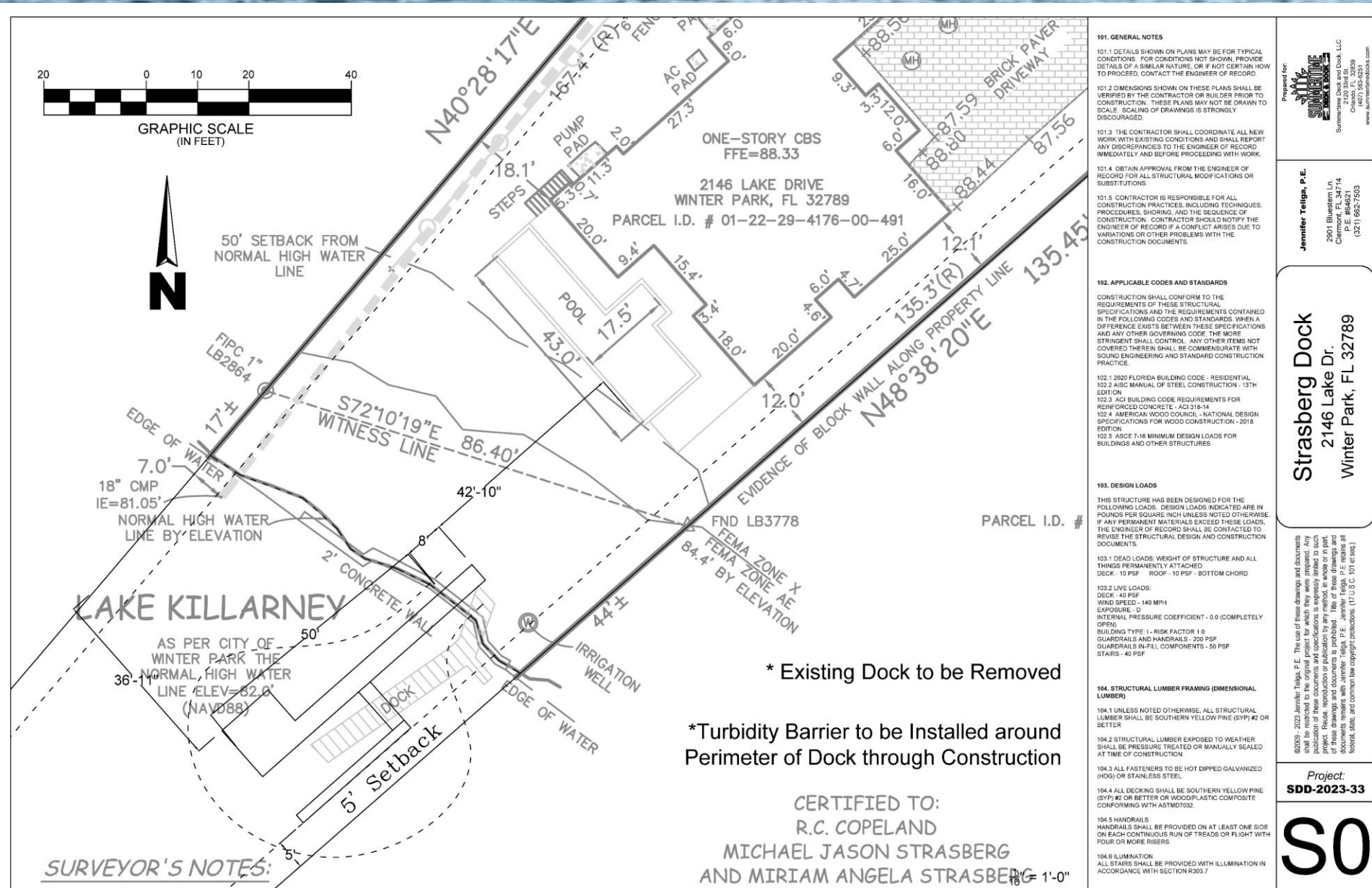
Photos



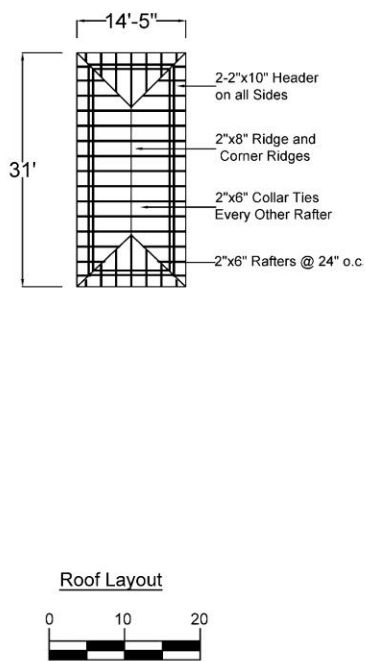
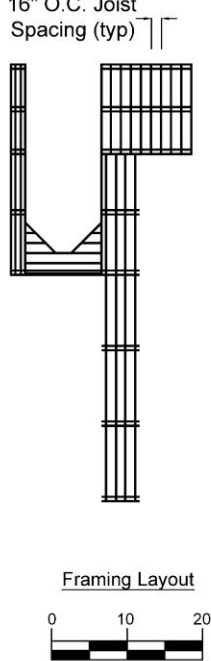
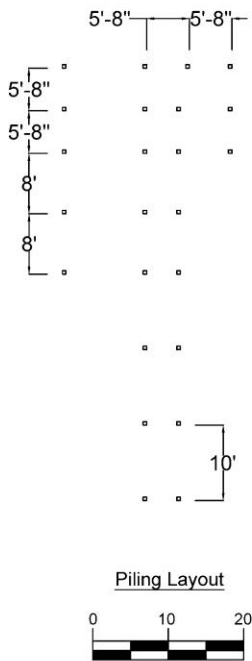
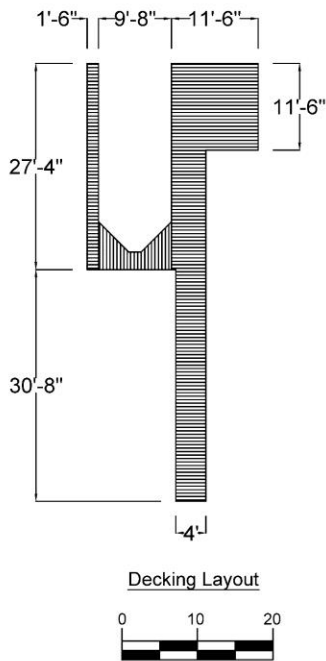
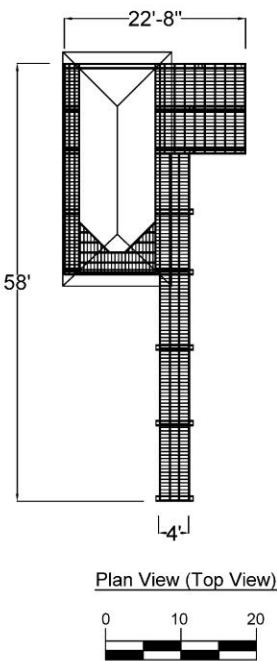
Survey



Plans



Plans



PLATFORM AREA BEYOND NHWE: 600 Sq. Ft.

Prepared for:
SUNSHINE
Summerside Deck and Dock, LLC
2100 34th St.
Ocala, FL 32774
(407) 562-2331
www.sunshinedocks.com

Jennifer Teliga, P.E.
2801 Bluewater Ln
Ocala, FL 32774
P.E. #64221
(321) 662-7503

Strasberg Dock
2146 Lake Dr.
Winter Park, FL 32789

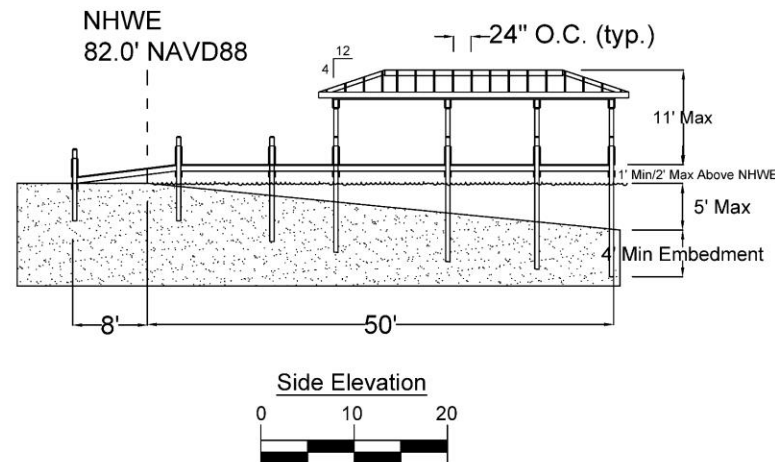
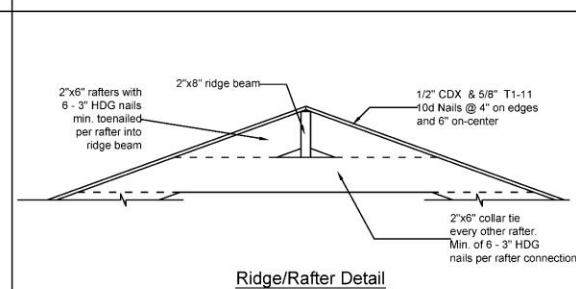
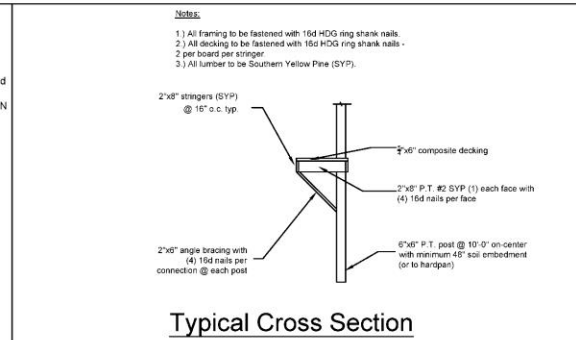
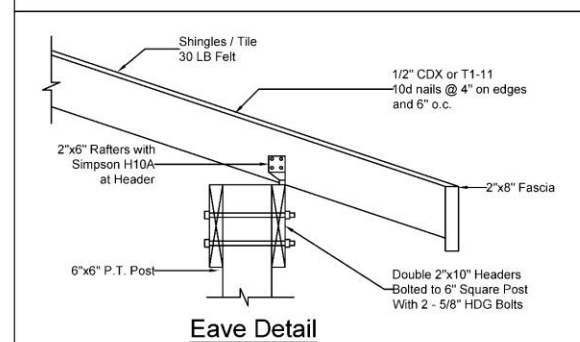
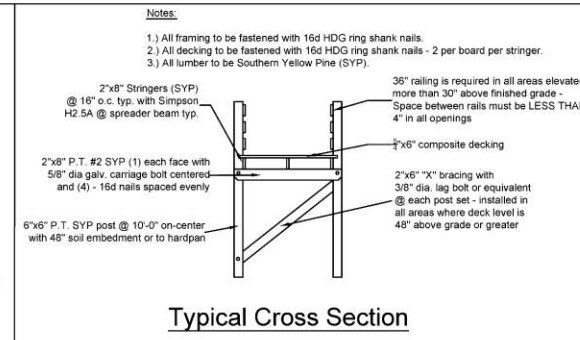
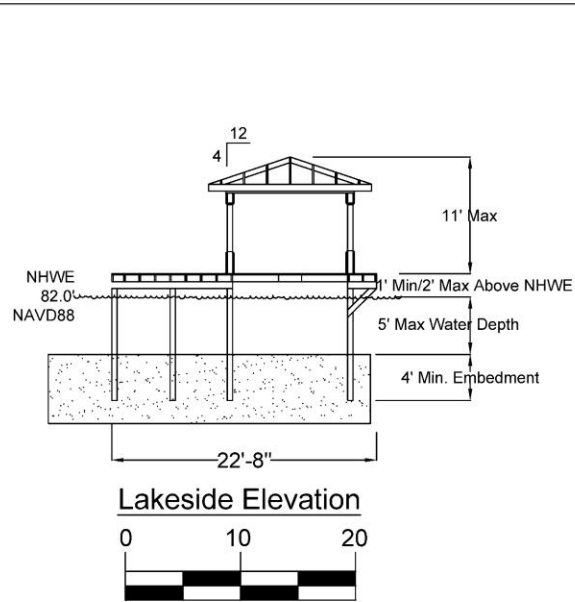
©2009 - 2023 Jennifer Teliga, P.E. The use of these drawings and documents shall be restricted to the original project for which they were prepared. Any reuse, reproduction or publication by any method in whole or in part of these drawings and documents is prohibited. Title of these drawings and documents remains with Jennifer Teliga, P.E. Jennifer Teliga, P.E. retains all federal, state, and common law copyright protections. (17 U.S.C. 101 et seq.)

Project:
SDD-2023-33

S1

0.005535

Plans



Prepared for:

 Summerlin Lakeside Dock, LLC
 Summerlin, NV 89144
 2120 3rd St.
 Orlando, FL 32809
 www.summerlindocks.com

Jennifer Teliga, P.E.
 2001 Bluestem Ln.
 Chardon, OH 44024
 P: 440.284.7174
 F: 440.284.7174
 (321) 962-7503

Strasberg Dock
 2146 Lake Dr.
 Winter Park, FL 32789

©2023 - 2024 Jennifer Teliga, P.E. The use of these drawings and documents shall be restricted to the original project for which they were prepared. Any publication of these documents and specifications is expressly limited to such publication. No other use, reproduction, or distribution of these drawings and documents is permitted without the written consent of Jennifer Teliga, P.E. Jennifer Teliga, P.E. retains all federal, state, and common law copyright protections. (17 U.S.C. 101 et seq.)

Project:
SDD-2023-33

S2

Letter of No Objection

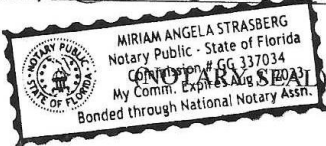
I, Vernon David Hunter, residing at 2142 Lake Dr., on
(Affected Adjacent Property Owner Name) (Address)
Lake Killarney, have reviewed my adjacent property owner's proposed
(Name of Lake)
boat dock construction plan and have no objection to the project.

Vernon David Hunter 4/25/2023
(Signature) (Date)
Vernon David Hunter
(Print Name)

ACKNOWLEDGEMENT:

STATE OF FLORIDA
COUNTY OF Orange

The foregoing instrument was acknowledged before me this 25 day of April, 01, by
David Hunter

 Miriam Angela Strasberg
(Signature of Notary Public - State of Florida)

Personally Known _____ OR Produced Identification _____
Type of Identification Produced _____



Lake Killarney Board

agenda item

item type Public Hearings (Public participation and comment on these matters must be in-person.)	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Boathouse/Dock Application (BLDR-2023-0509) 2024 Lake Dr.

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[Boathouse/Dock BLDR-2023-0509](#)



LAKE SHORELINE BOATHOUSE/DOCK APPLICATIONS

BLDR-2023-0509

2024 Lake Dr

- Applicant: Dawn Bell
- Contractor:
- Structure: Dock
- New/Existing: Existing
- Waterbody: Killarney
- Retroactive Permit Application

Parameters

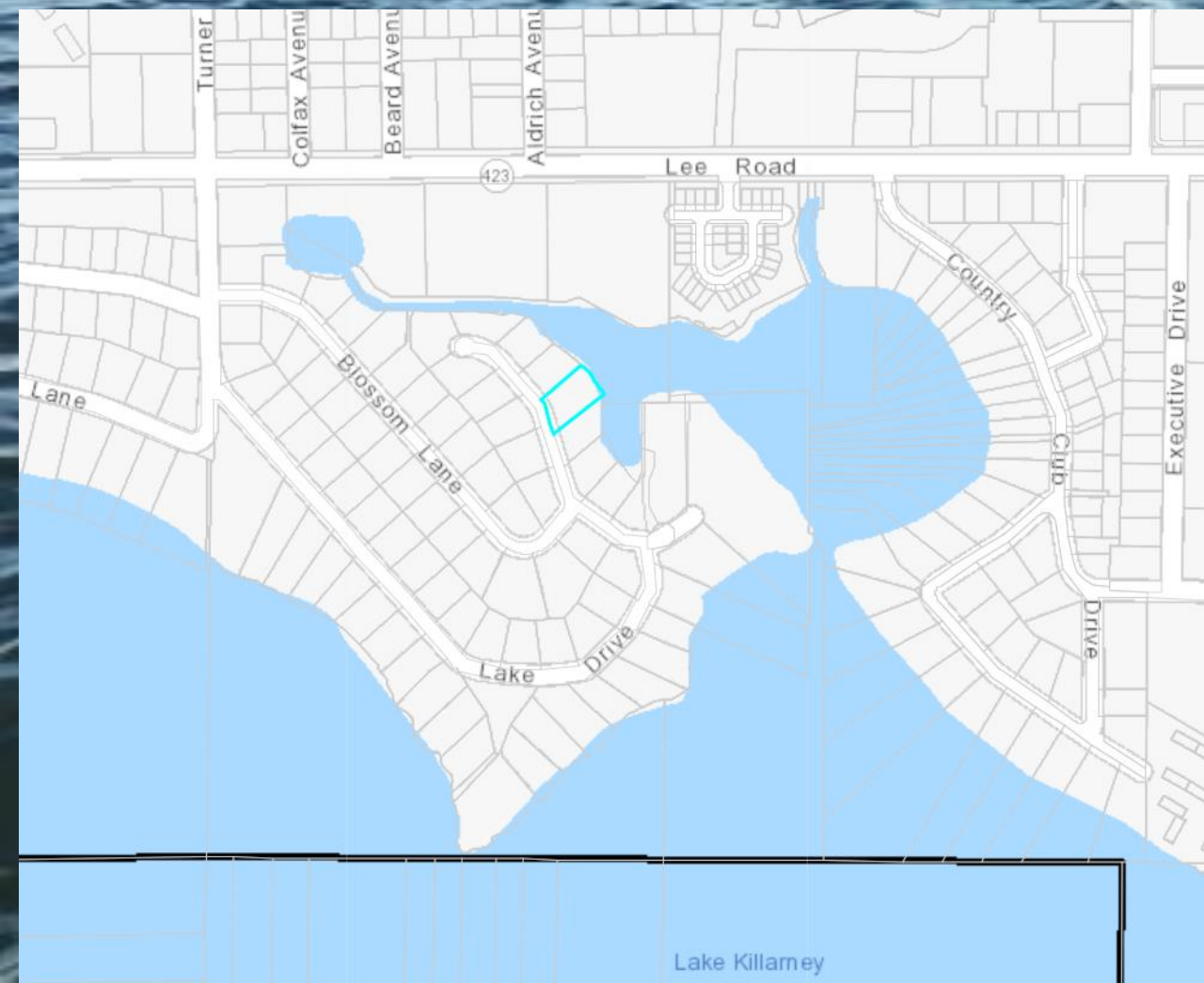
Dock Parameter	Proposed	Allowed	Variance Req.?
Total Area (ft ²) OHWL	290	600 max	No
Length from OHWL (ft)	31'	50'	No
Height of Roof (ft above deck)	N/A	11 max	No
Height of Deck (ft above OHWL)	1.5'	2 max	No
Enclosure	N/A	80 ft ² max (no plumbing/water allowed)	No
Side Yard Setback(s) (ft)	40'	10 min	No
Meet Vegetation Criteria?	No	50% may be cleared	No

Staff Recommendation: **Approval with Revegetation**
Reviewed by: Joey Cordell

Map View

Basemap

Aerial View



Photos



Survey

Boundary Survey

Legal Description:

FROM THE WEST 1/4 CORNER OF SECTION 1, TOWNSHIP 22 SOUTH, RANGE 29 EAST, RUN N 02°12' W 302.27' ALONG THE WEST LINE OF THE NORTHWEST 1/4 OF SAID SECTION 1; THENCE N 87°44'45" EAST 154.51 FEET; THENCE SOUTH 69°50'35" EAST 115.03 FEET; THENCE SOUTH 42°05'59" EAST 672.16 FEET; THENCE N 47°54'01" EAST 155 FEET; THENCE NORTH 66°54' EAST 180.11 FEET TO THE POINT OF BEGINNING; THENCE RUN N 18°06' WEST 62 FEET; THENCE N 41°36' WEST 14 FEET; THENCE N 48°24' EAST 155 FEET MORE OR LESS TO THE LOW WATER MARK OF LITTLE LAKE KILLARNEY; THENCE SOUTHEASTERLY 108 FEET MORE OR LESS ALONG SAID LOW WATER MARK; THENCE SOUTH 51°54' WEST 183 FEET MORE OR LESS TO A POINT LYING 28 FEET SOUTH 18°06' EAST OF THE POINT OF BEGINNING; THENCE NORTH 18°06' WEST 28 FEET TO THE POINT OF BEGINNING.

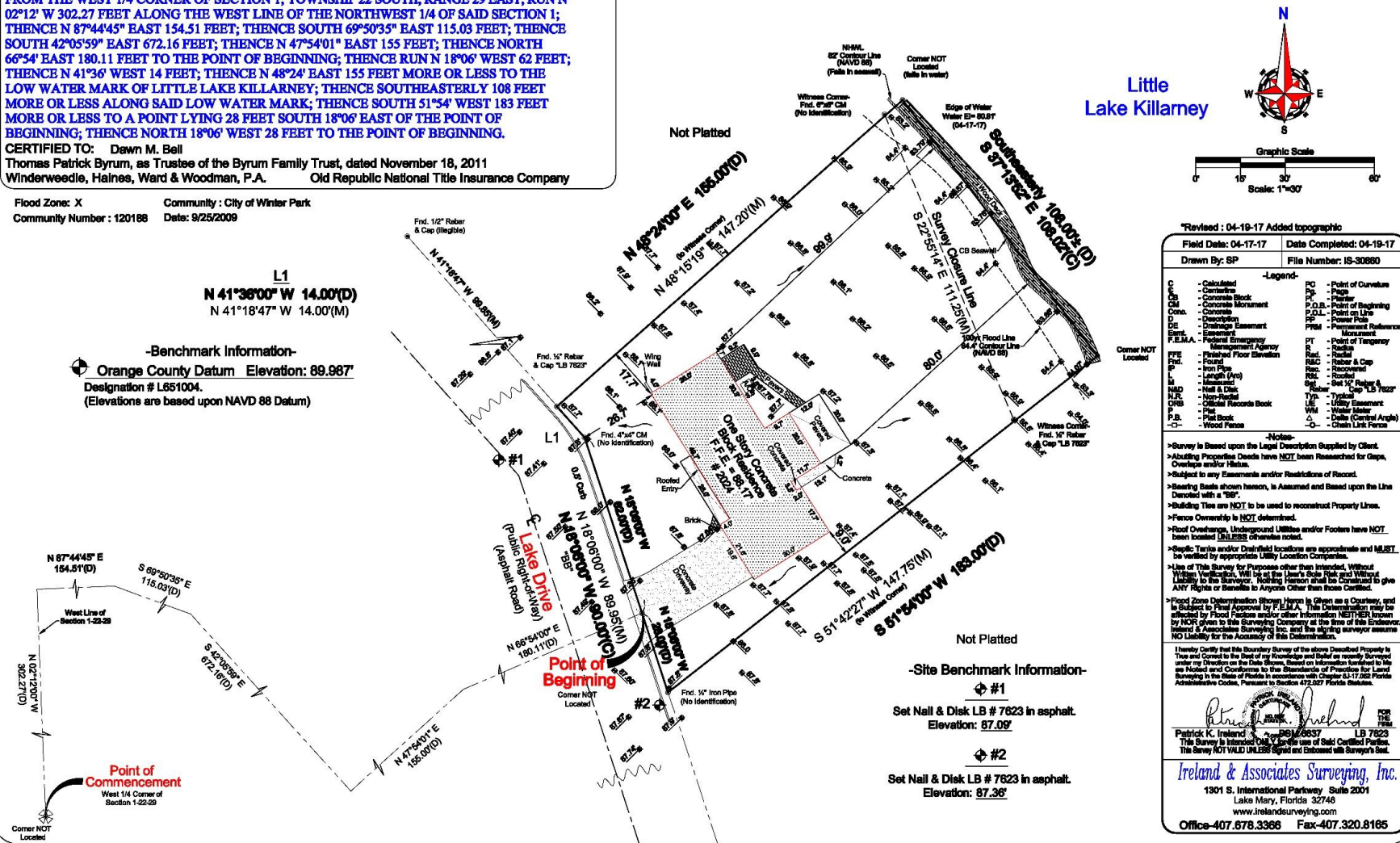
CERTIFIED TO: Dawn M. Bell
Thomas Patrick Byrum, as Trustee of the Byrum Family Trust, dated November 18, 2011
Winderwee, Haines, Ward & Woodman, P.A. Old Republic National Title Insurance Company

Flood Zone: X Community : City of Winter Park
Community Number : 120188 Date: 9/25/2009

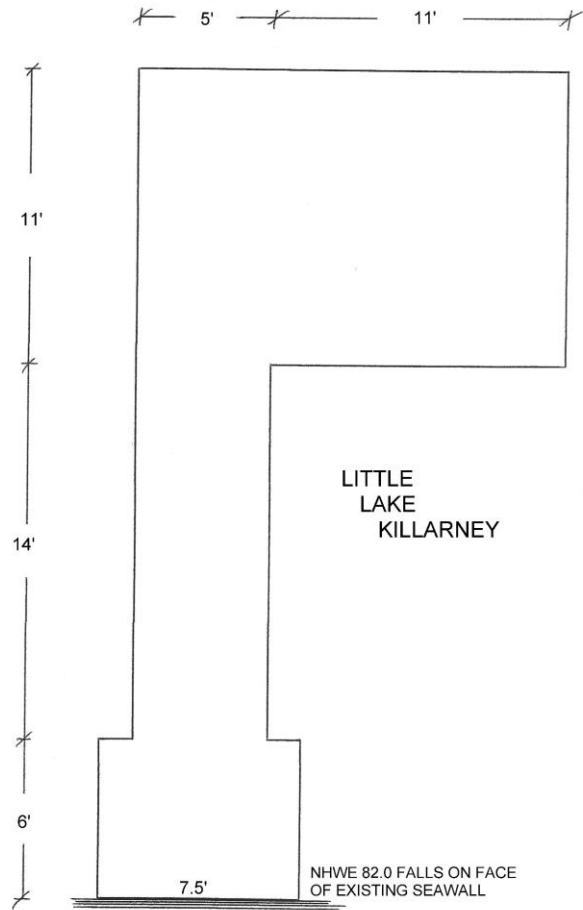
L1
N 41°36'00" W 14.00'(D)
N 41°18'47" W 14.00'(M)

-Benchmark Information-

 **Orange County Datum Elevation: 89.987'**
Designation # L651004.
(Elevations are based upon NAVD 88 Datum)

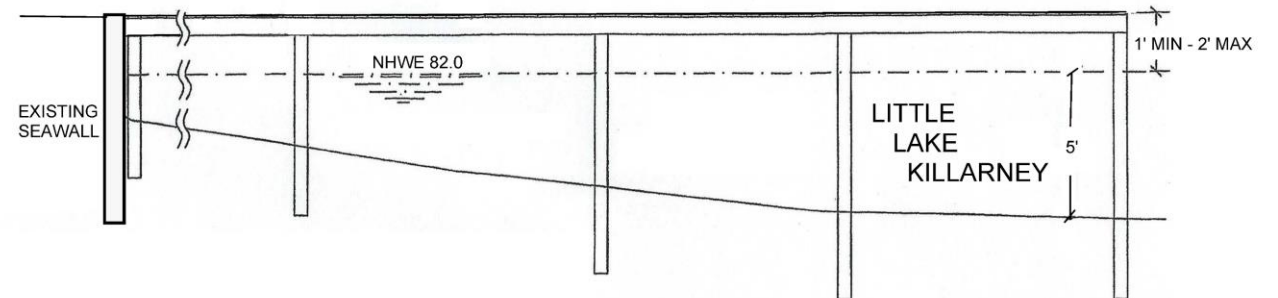


Plans

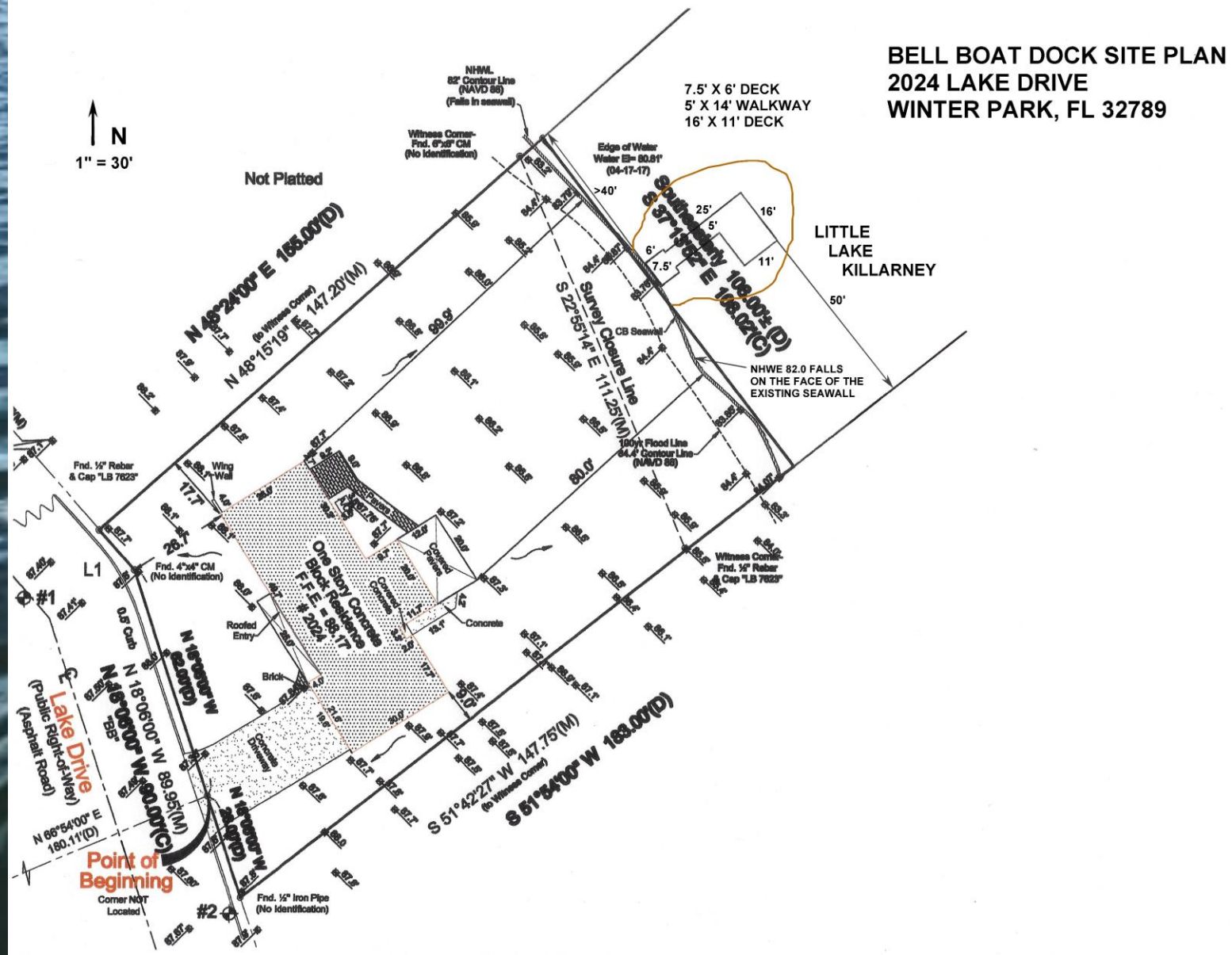


BELL BOAT DOCK PLAN VIEW
2024 LAKE DRIVE
WINTER PARK, FL 32789

BELL BOAT DOCK ELEVATION
2024 LAKE DRIVE
WINTER PARK, FL 32789



Plans





Lake Killarney Board

agenda item

item type Public Hearings (Public participation and comment on these matters must be in-person.)	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Seawall Application Permit (SAP-2023-0020) 2024 Lake Dr.

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[Seawall App. SAP-2023-0020](#)



SEAWALL APPLICATIONS

SAP-2023-0020

2024 Lake Dr

- Applicant: Dawn Bell
- Contractor:
- Structure: Seawall
- New/Existing: Existing
- Waterbody: Killarney
- Retroactive Permit Application

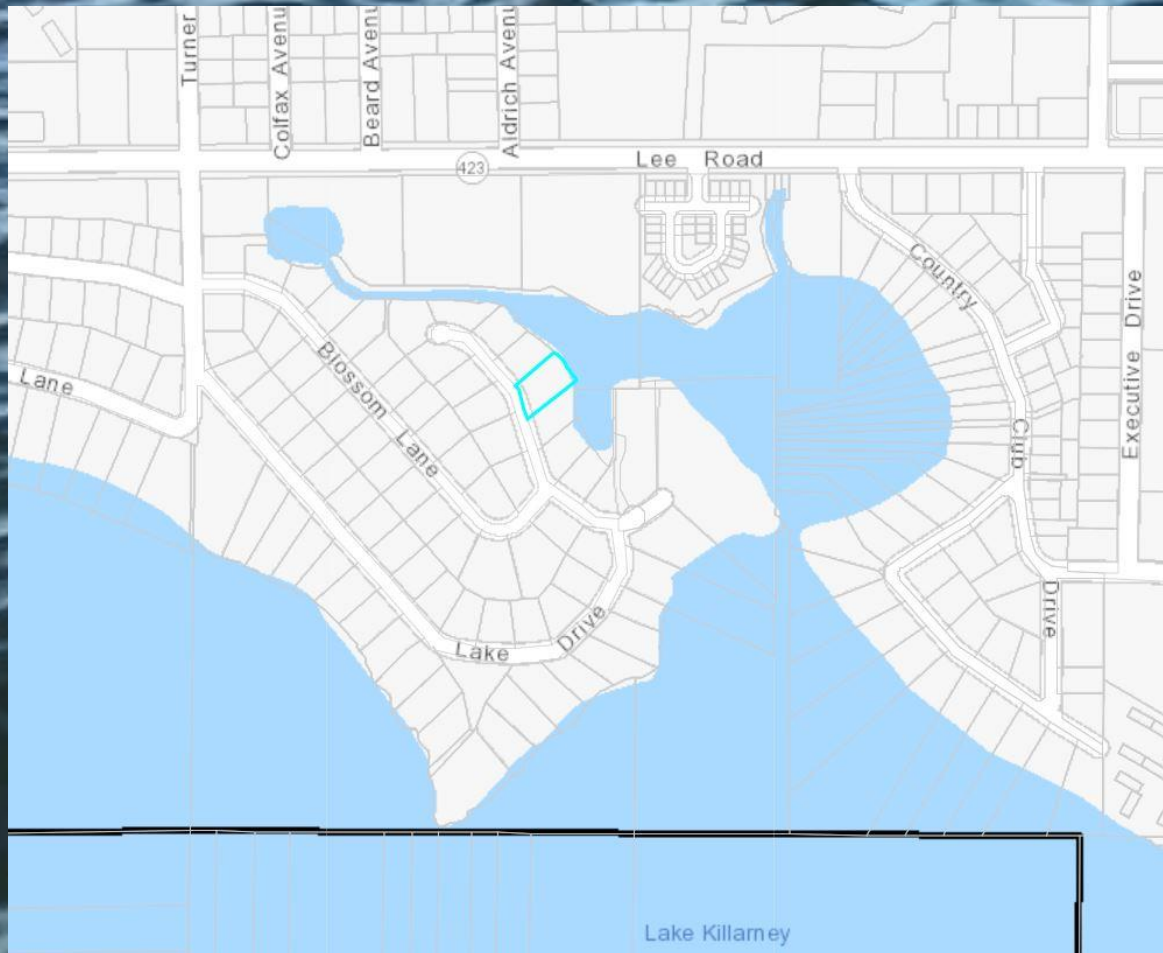
Parameters

Parameter	Proposed	Allowed	Variance Req.?
Length (ft)	108'	N/A	N/A
Slope (Horizontal:Vertical)	2:1	3:1 min	No
Material	Vinyl and Natural Stone	N/A	N/A
Existing Erosion Problem (Yes/No)	Unknown	Must have existing erosion problem	N/A
Meet Vegetation Criteria?	No	50% may be cleared	N/A

Staff Recommendation: **Approval with Revegetation**
Reviewed by: Joey Cordell

Map View

Basemap



Aerial View



Photos



Survey

Legal Description:

Boundary Survey

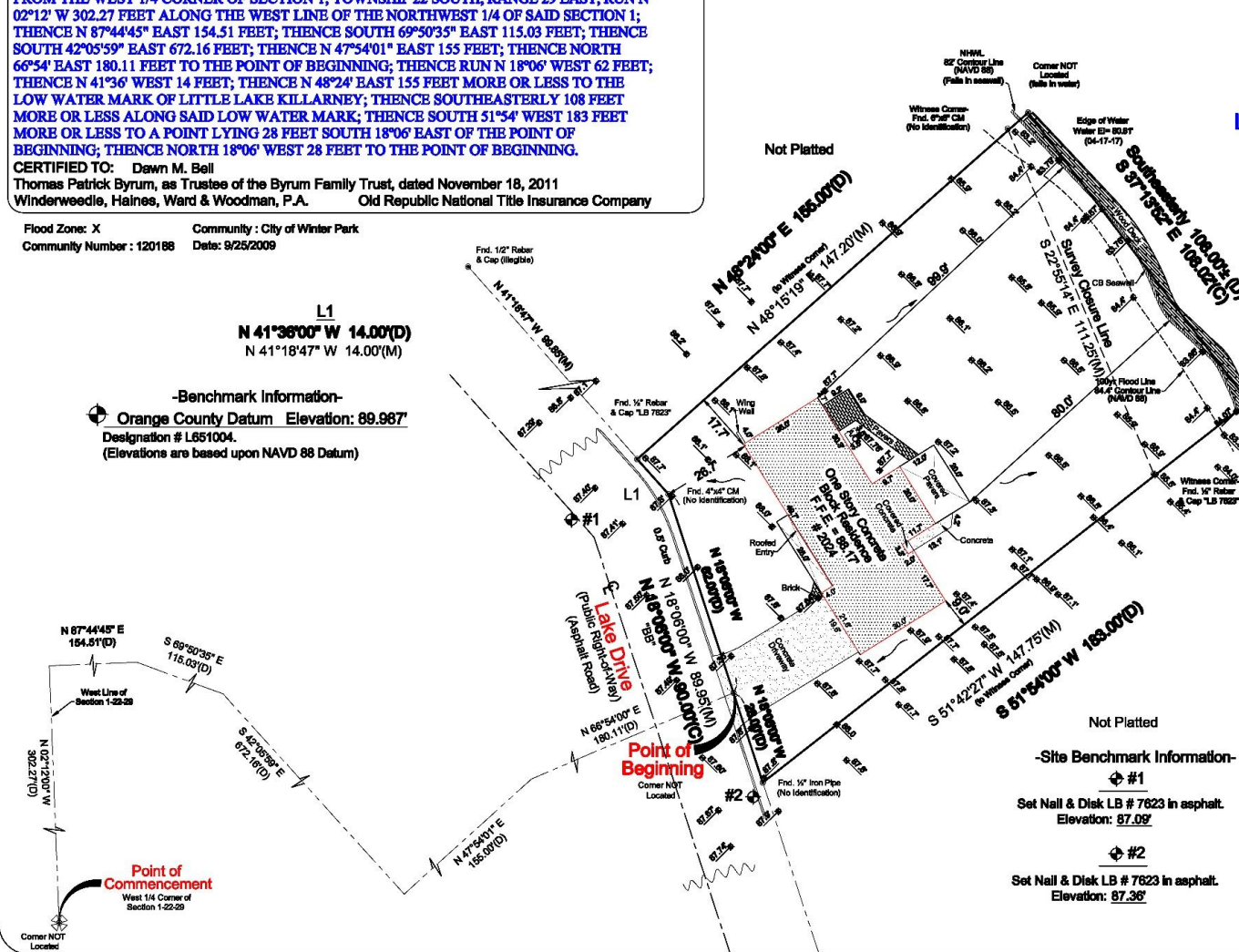
FROM THE WEST 1/4 CORNER OF SECTION 1, TOWNSHIP 22 SOUTH, RANGE 29 EAST, RUN N 02°12' W 302.27 FEET ALONG THE WEST LINE OF THE NORTHWEST 1/4 OF SAID SECTION 1; THENCE N 87°44'45" EAST 154.51 FEET; THENCE SOUTH 69°50'35" EAST 115.03 FEET; THENCE SOUTH 42°05'59" EAST 672.16 FEET; THENCE N 47°54'01" EAST 155 FEET; THENCE NORTH 66°54' EAST 180.11 FEET TO THE POINT OF BEGINNING; THENCE RUN N 18°06' WEST 62 FEET; THENCE N 41°36' WEST 14 FEET; THENCE N 48°24' EAST 155 FEET MORE OR LESS TO THE LOW WATER MARK OF LITTLE LAKE KILLARNEY; THENCE SOUTHEASTERLY 108 FEET MORE OR LESS ALONG SAID LOW WATER MARK; THENCE SOUTH 51°54' WEST 183 FEET MORE OR LESS TO A POINT LYING 28 FEET SOUTH 18°06' EAST OF THE POINT OF BEGINNING; THENCE NORTH 18°06' WEST 28 FEET TO THE POINT OF BEGINNING.

CERTIFIED TO: Dawn M. Bell
Thomas Patrick Byrum, as Trustee of the Byrum Family Trust, dated November 18, 2011
Winderweede, Haines, Ward & Woodman, P.A. Old Republic National Title Insurance Company

Flood Zone: X Community: City of Winter Park
Community Number: 120188 Date: 9/25/2009

L1
N 41°38'00" W 14.00'(D)
N 41°18'47" W 14.00'(M)

-Benchmark Information-
Orange County Datum Elevation: 89.987'
Designation # L651004.
(Elevations are based upon NAVD 88 Datum)



Little
Lake Killarney



*Revised: 04-19-17 Added topographic

Field Date: 04-17-17 Date Completed: 04-19-17
Drawn By: SP File Number: IS-30880

Legend	
C	- Calculated
CB	- Contour Block
CM	- Concrete Monument
Con.	- Concrete
D	- Description
Est.	- Estimated
Est. S.A.	- Federal Emergency Management Agency
FT	- Point of Tangency
FTS	- Fenced Floor Elevation
Frst.	- Foundation
FP	- Four
IP	- Iron Pipe
L	- Length (ft)
M	- Monument
M&D	- Nail & Disk
N.R.	- Non-Residential
CRS	- Official Records Book
P.B.	- Plat Book
W	- Wood Fence
PC	- Point of Curvature
Pl	- Plat
P.O.B.	- Point of Beginning
P.O.L.	- Point on Line
PP	- Power Pole
PRM	- Permanent Reference Monument
R	- Radius
R&C	- Rubber & Cap
Rec.	- Recovered
RO	- Road
S	- Set 1/2" Rubber & Cap
Typ.	- Typical
UE	- Utility Easement
WM	- Water Meter
WMA	- Water Meter Access
WMA	- Water Meter Access
WMA	- Water Meter Access

-Notes-

>Survey is Based upon the Legal Description supplied by Client.

>Building Projections Shown here NOT been Researched for Gaps, Overlaps and/or Mistakes.

>Subject to any Easements and/or Restrictions of Record.

>Bearing Beams shown hereon, is Assumed and Based upon the Line Derived with a "90°".

>Building Ties are NOT to be used to reconstruct Property Lines.

>Fence Ownership is NOT determined.

>Roof Overhangs, Underground Utilities and/or Footers have NOT been located UNLESS otherwise noted.

>Septic Tanks and/or Drainfield locations are approximate and MUST be verified by appropriate Utility Location Companies.

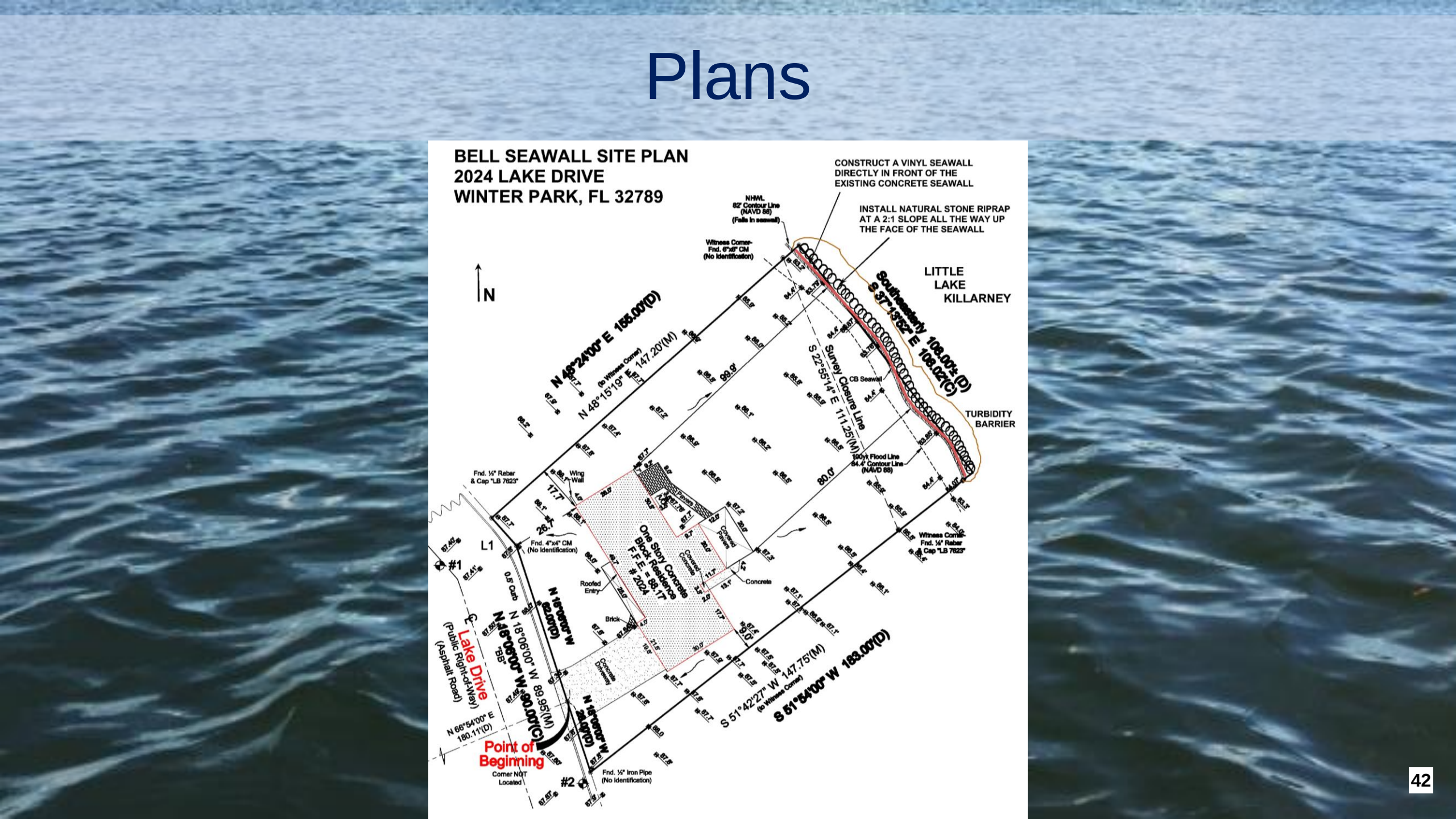
>Use of This Survey for Purpose other than Intended, Without Written Verification, Will be at the User's Sole Risk and Without Liability to the Surveyor. Nothing herein shall be construed to give ANY Rights or Benefits to Anyone other than those Certified.

>Flood Zone Determination Shown hereon is given as a Courtesy, and is Subject to Final Approval by F.E.M.A.. This Determination may be affected by Flood Factors and/or other information NEITHER known by NCI given to this Surveying Company at the time of the Evidence, NOR known by the Surveyor, and the signing surveyor assumes NO Liability for the Accuracy of this Determination.

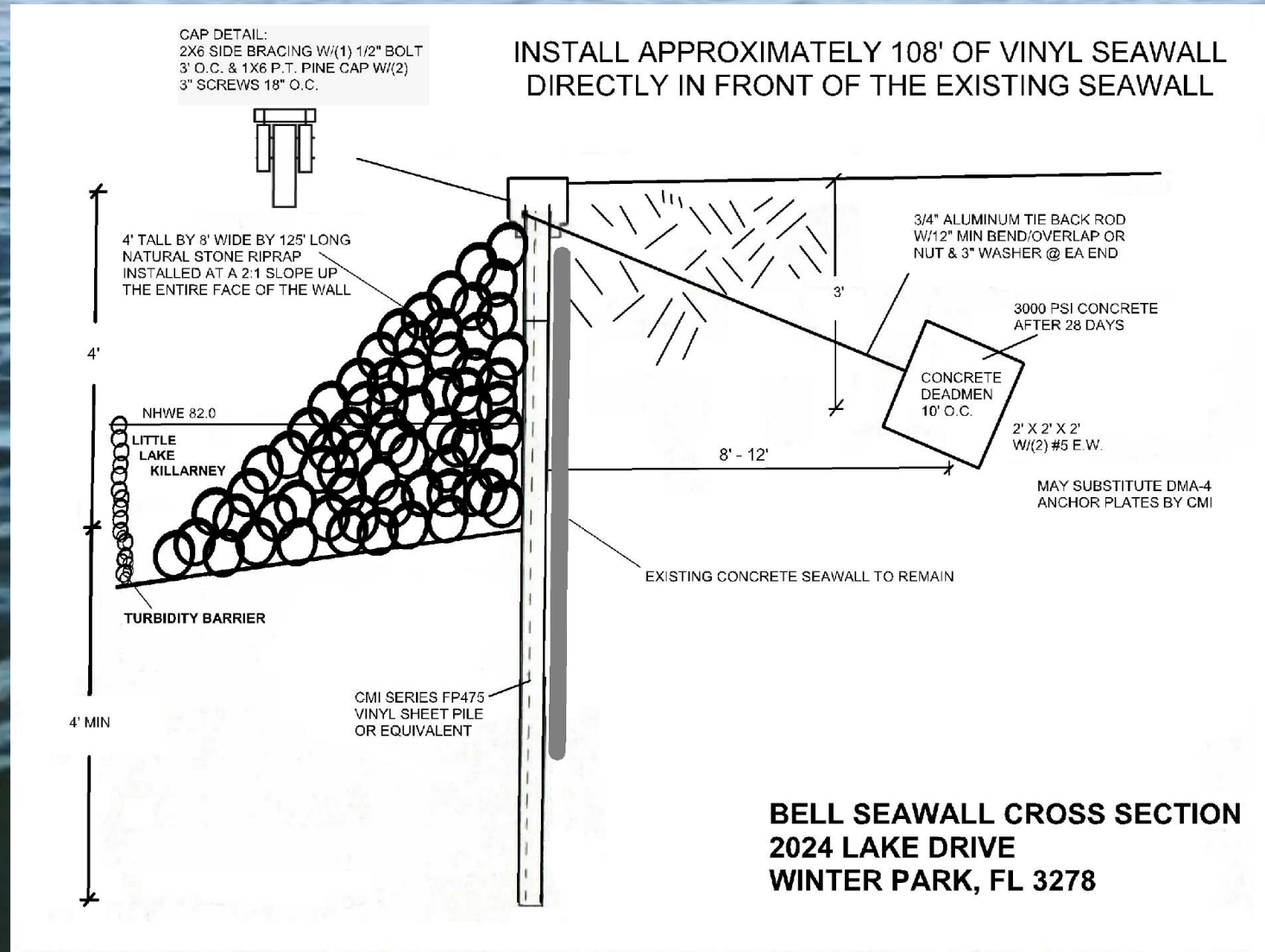
I hereby certify that this Boundary Survey of the above Described Property is True and Correct to the Best of my Knowledge and Belief as recently Surveyed under my Direction on the Date Herein Shown and that the same conforms to the Standards and Practices for Land Surveying in the State of Florida as prescribed in Chapter 461-17.000 Florida Administrative Code, Pursuant to Section 472.007 Florida Statutes.

Patrick K. Ireland LB 7823
The Survey is Intended Only for the use of Said Certified Parties.
The Survey NOT VALID UNLESS signed and sealed with Surveyor's Seal.

Ireland & Associates Surveying, Inc.
1301 S. International Parkway Suite 2001
Lake Mary, Florida 32746
www.Irelandsurveying.com
Office-407.878.3366 Fax-407.320.8185

[illegible]

Cross Section





Lake Killarney Board

agenda item

item type	Action Items	meeting date	June 7, 2023
prepared by	Victoria Tabor	approved by	
board approval			
strategic objective			

subject

Flood Management Guide

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

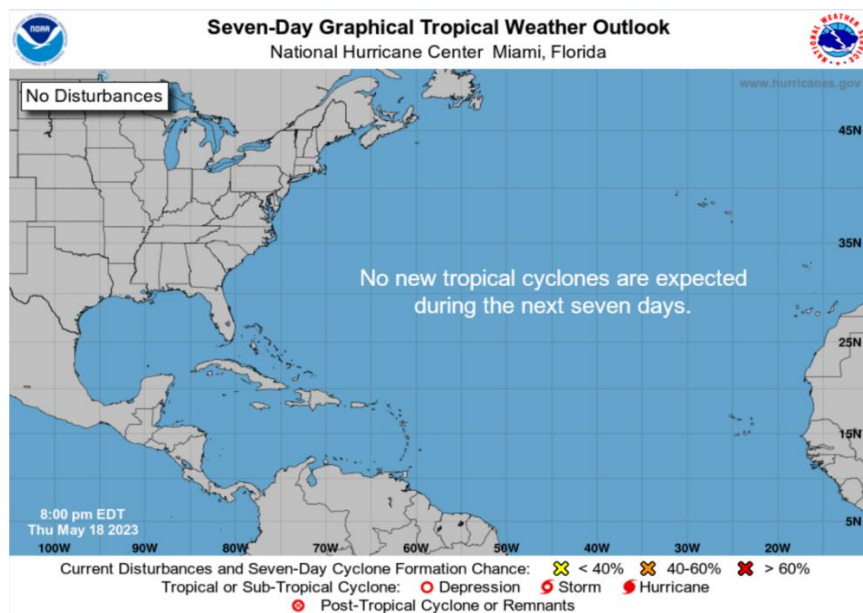
[Flood Management Guide](#)



CITY OF WINTER PARK FLOOD MANAGEMENT GUIDE

In May of 2023, the National Hurricane Center (NHC) changed its Tropical Weather Outlook notification from five-days to seven-days. The NHC extended the outlook due to technological advancements with satellites and modeling stating that seven-day forecasts are just as reliable as the five-day forecasts.

With this technological development, daily active management of lake levels within the City of Winter Park will occur upon issuance by the National Hurricane Center (NHC) that tropical activity has been identified for the new Seven-Day Outlook. Protocols and procedures will further be enacted when the NHC projected storm path intersects the Central Florida Region, whereby the active management of lowering lake levels will occur according to the specifics found within this guide. In addition, annual notification to the Florida Department of Environmental Protection (FDEP), in writing, is required for implementing drain well activities.



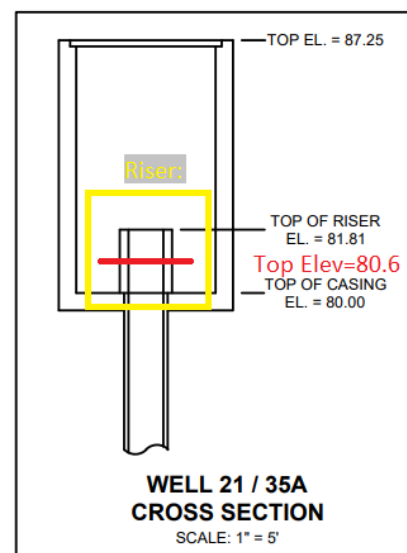
Active Lake Level Alteration Activities- City Wide Specifics

- Remove the six risers from the drain wells on Lake Killarney
- Open valve to the MLK Pond drain well
- Remove top weir board on Lake Bell
- Open gate on the Winter Park Racquet Club Pond outfall
- Check valves (2) are operational at WP18 golf course
- Remove all retractable grass carp fence barriers
- Inspect all drain well intakes maintaining free and clear of debris
- Issue lake closure protocol for the Chain of Lakes at elevation of 66.1 ft.

Active Management of Lake Levels- Lakes Killarney and Lake Bell Specifics

1. City will monitor lake elevation levels on Lake Killarney and Lake Bell on a daily basis, during hurricane season, June 1st to November 30th, via Smart Technology utilizing telemetry elevation gauges. These gauges can be accessed remotely and provide an alert notification should the elevation stage higher than desired due to an intermittent storm. Staff will not solely rely on the device but will routinely inspect and log field data.
2. City will maintain and clean drain well intakes, collection boxes and traps, and manage street cleaning services especially during hurricane season.
3. During hurricane season, Lake Killarney will be maintained at 80.6 ft. as shown in drain well specification below. This requires new set of risers to be installed for this period and is contingent upon approval by Florida Department of Environmental Protection (FDEP).
4. During hurricane season, the top weir board for Lake Bell will be removed. Desired lake elevation management requires analysis through a basin drainage study.
5. Removal of the six drain well risers will be enacted when the NHC projected storm path intersects the Central Florida Region. If the approaching storm turns, the risers will be reinstalled as soon as the storm threat is over.
6. A secured email will be provided to the Lake Killarney Board to report **non-emergency** related activities. Otherwise, follow standard emergency response by dialing 911.

Lake Killarney Drain Well Specifications:



- Without risers on the drain wells, Lake Killarney lowers 0.1-0.2 ft per day.
- The top of each riser is on average 81.66 ft, the top of each drain well casing is on average 80.0 ft, the weir to Lake Gem discharges at 82.7 ft.
- The demarcation in red depicts modification to the risers in order to maintain lake elevation at 80.6 ft. and requires FDEP approval.



NATURAL RESOURCES & SUSTAINABILITY DEPARTMENT CHECKLIST

168 hours (7 days) prior to storm

- Monitor storm models via National Hurricane Center's (NHC) Seven-Day Tropical Weather Outlook.

120 hours (5 days) prior to storm

- Monitor storm models.
- Provide staff with tracking sheets for manpower hours and equipment usage for Federal Emergency Management Agency (FEMA) records.
- Notify laboratory of potential lake sample submittals. Coordinate with water & wastewater laboratory manager.
- Inspect control and outflow structures located on the lakes, including leaf trap devices; maintain free and clear of debris.
- Lower lake elevations, where permissible.
 - Lake Killarney drain wells and Lake Bell top weir board will be removed in advance whereby the track issued by the National Hurricane Center intersects the Central Florida region.
 - Refer to established protocol under City of Winter Park's Flood Management Guide.

72 hours (3 days) prior to storm

- Inspect all weirs and grass carp barriers including the ones located downstream of lakes Bell, Killarney, Berry and Maitland; maintain free and clear of debris.
- Inspect culvert box under bridges at Sterling and Pennsylvania to ensure free and clear of debris.
- Inspect drain well intake structures on Lake Killarney and all land locked lakes (Knowles, Spier, Forest, Midget, as well as the Seminole County drain well on N. Lakemont Avenue); maintain free and clear of debris.
- Inspect canals within the Chain of Lakes and Howell Creek, upstream of Lake Virginia, and downstream of the Howell Branch weir.
- Coordinate solid waste services messaging with Communications Department and Assistant City Manager.

48 hours (2 days) prior to storm

- Meet with staff to go over responsibilities and verify contact information.
- Prioritize every day departmental functions.
- Remove MLK, Jr. Park drain well and Winter Park Racquet Club pond outfall board.
- Prepare and secure equipment and PPE:
 - All boats, vehicles, and gas cans filled
 - Clean and remove all debris from work vehicles
 - Clamshell ready and operational

- ❑ Secure barges at Kraft Gardens
- ❑ Move all Lakes Division supplies into boathouse or break room area (buoys, etc.)
- ❑ Test all chainsaws and make sure that PPE is in good condition
- ❑ Each driver with PPE in work vehicle

24 hours (1 day) prior to storm

- ❑ Remove retractable grass carp barriers at lakes Bell and Berry.
- ❑ Meet with staff to go over final details data assessment.
- ❑ Prioritize every day departmental functions.

During the storm

- ❑ Natural Resources & Sustainability is not classified as a first responder and does not have a role at EOC. Staff to remain in a safe location.
- ❑ All Lakes Division staff and department director will commence damage assessment when deemed safe. Office staff to service phone lines and emails. Sustainability Division staff to service phone lines and emails, assisting in solid waste communications or be assigned as required.
- ❑ Establish communication with damage assessment team with deployment time and locations.

Immediately after the storm when conditions are safe

- ❑ Damage assessment team deployed to inspect all conveyances, outfalls, weirs, drain wells and high-risk areas (i.e. Special Flood Hazard Area- SFHA). Clear immediate hazards.
- ❑ Collector app utilized to document environmental damages. Include photos.
- ❑ Track manpower hours and equipment usage for FEMA records.
- ❑ Implement lake closures: Chain of Lake elevation closure at >66.1 ft (NAVD 88).
- ❑ Monitor and record lake elevations. Report anomalies to Public Works Department.

Days/weeks after the storm

- ❑ Post-storm environmental/water quality monitoring including environmental assets.
- ❑ Report damage assessment for state assistance and grant submittals; such as Natural Resources Conservation Service (NRCS).
- ❑ Grass carp barriers re-installed when conditions are favorable.
- ❑ Coordinate teams to recover fallen trees in waterways noted in damage assessments.
- ❑ Perform continual monitoring and messaging related to lake hazards:
 - ❑ Recreational use of lakes will be allowed once it is determined that safe boating activities can resume without potential damage to private property or the danger of colliding with submerged storm debris.
- ❑ Effective communications with lake patrons, both residential and commercial, related to lake closures; dock safety warnings with submerged electrical components; submerged hazards warning; and lake contamination warnings.
- ❑ Perform continual monitoring and messaging related to lake elevations-reinstate drain wells and weir closures, when appropriate.
- ❑ Refer to established policy: Lakes and Stormwater Management for Flood Control.



PUBLIC WORKS DEPARTMENT STREETS DIVISION CHECKLIST

Off season preparations

- Conduct quarterly meetings with directors, supervisors, crew chiefs, and all staff to review the following:
 - Written hurricane preparedness procedures and where to locate the document.
 - Team members list including updated phone numbers to be activated during Emergency Operations Center (EOC) operations. There must be two separate teams listed for relief following the initial 24-hour period.
 - Equipment list to be used during EOC operation. Equipment list to include but limited to trucks, loaders, generators, barricades and sand bagger.
 - Coordinate with the city's procurement division to secure vendors for additional bypass pumps, vacuum trucks, loaders and generators on an as-needed basis.
- Be sure to have all proper and updated forms for reporting staff's storm response activities.
 - All streets infrastructure to be inspected and maintained on predetermined schedules. The following items must be maintained year-round in proper functioning condition.
 - Storm sewer inlets, pipes, treatment structures, and outfalls
 - Traffic signals and signs
 - Street sweeping

120 hours (5 days) prior to storm

- Assist the Natural Resources & Sustainability Department in lowering Lower lake elevations, where permissible.
 - Lake Killarney drain wells and Lake Bell top weir board will be removed in advance whereby the track issued by the National Hurricane Center intersects the Central Florida region.
 - Refer to established protocol under City of Winter Park's Flood Management Guide.

72 hours to 48 hours (3-2 days) prior to storm

- Test all equipment for proper working order.
 - Make sure all equipment gas tanks are filled and batteries are charged.
 - Generators used for supplying power to traffic signals to be tested and filled with gas.
 - Have additional gas cans filled.
- Prepare sandbagging operations site.
 - Decide with city management on an appropriate location and coordinate with the Communication Department to prepare a map, distribution schedules and notifications.
 - Mobilize sand, bags and equipment to the location.
 - Each household will be provided eight bags with proper proof of residency unless otherwise directed by city management.
 - Prepare coordination with the police department for ID verification and traffic control.

- Increase levels of storm sewer cleaning and street sweeping operations.
- Verify schedules for both teams to begin the overnight and relief shifts.
- Hold a procedure and general safety meeting with both teams before the EOC activation.

24 hours (1 day) prior to storm

- Stop all city and private construction activities and secure sites from any potential erosion and/or wind damage.
- Mobilize and stage all heavy equipment to strategic location to be used throughout the city.
 - NW Area - Public Safety Facility (500 N. Virginia Ave.)
 - SE Area - Fire Station #62 (300 S. Lakemont Ave.)
 - SW Area - City Lot (1210 Palmetto Ave.)
 - NE Area - City Operations Center (1409 Howell Branch Road)
- Share both teams' member's names and contact numbers with the Public Works Director and Assistant Director.
- Prepare sleeping arrangements and purchase food for the overnight shift team.
- Verify all equipment is ready in place with full tanks of gas.
- Load and secure barricades on trucks to be dispatched.

During the storm

- Stay safe inside until EOC managers clear the city staff for response activities.

Immediately after the storm when conditions are safe

- Assist police and fire departments to clear streets for emergency response.
- Assist the electric and water & wastewater departments clearing streets to perform their response and repair activities.
- Setup closures and barricade off flooded and obstructed streets and roadways.
- Inspect all signalized intersections for functionality and perform repairs as needed. Repairs requiring a bucket truck can only take place when winds diminish to 30mph or less.
- Clear all storm drains from obstructions to ensure proper drainage.
- Assist the city's Urban Forestry Division with downed tree removals.
- Begin assisting the Natural Resources & Sustainability Department with monitoring of the water levels in the city's lakes and ponds.
- Setup bypass pumping operations on lakes and/or ponds reaching higher levels which potentially could flood surrounding structures/homes.
- Barricade or cone off any potholes which could cause damage to vehicles.

Days/weeks after the storm

- Continue streets clearing and debris removal and storm drain clearing for proper drainage.
- Assess any potholes locations for storm pipe failures and schedule necessary repairs.
- Continue monitoring water levels in lakes and ponds and add or relocate bypass pumping activities accordingly.



CIP PROJECT CONSIDERATIONS & STUDIES FOR STORM RESILIENCY

The flood elevation in the Winter Park Chain of Lakes is control by a weir located on the north side of Lake Maitland at Howell Branch Road. The control elevation for the chain of lakes was studied for a LOMR in 2009. The SJRWMD confirmed that the current control elevation of 66.18 ft was best for all communities upstream and downstream and it was not to be adjusted.

The following is a suggested list that should be updated regularly and as funding allows:

- Consider increasing the volume of the MLK Pond and lowering the surrounding neighborhood flood stage
 - a. A flood study was performed in the CRA watershed basin by Geosyntec. This study provided four alternatives for increasing volume in the MLK Pond
 - i. Alt 1 - Exfiltration Basin
 - 1. Decrease in peak stage: 0.26 ft
 - 2. Estimated cost: \$6,516,021
 - ii. Alt 2 - New interconnect to Lake Rose
 - 1. Decrease in peak stage: 0.05 ft
 - 2. Estimated cost: \$172,378
 - iii. Alt 3 - Exfiltration basin and interconnect to Lake Rose
 - 1. Decrease in peak stage: 0.2 ft
 - 2. Estimated cost: \$2,065,776
 - iv. Alt 4 - (COMPLETED) Relocating Killarney interconnect from Beachview Ave to intersection of Morse Blvd and Harper St
 - 1. Decrease in peak stage: 0.02 ft
 - 2. Estimated cost: \$35,830
 - b. Perform study to expand the overall footprint of the pond for more stormwater storage by strategically selecting park areas of lower usage
 - c. Consider partnering with private property owners near MLK to expand
- Develop 5-10 year CIPs for lake interconnections- perform hydraulic studies to determine feasibility and associated cost.
 - a. Lake Sylvan to Lake Mizell
 - b. Lake Grace to Lake Forest
 - c. Lake Chelton to Lake Sue
 - d. Lake Tuscany to Lake Temple to Howell Branch Pond
 - e. Lake Compton to Lake Spier
- Develop drainage study for Lake Killarney, Lake Bell and Lake Wilderness to address feasibility and cost for rerouting emergency stormwater overflow and evaluate weir elevations.

- Develop drainage study for Howell Creek Basin of Winter Park that includes the Chain of Lakes, Lake Sue, and Lake Berry.
- Develop drainage study for Little Econ Basin of Winter Park that includes Interlachen and WP18 (formally Winter Park Pines).
- Following FS 252.363 provision allowing to adjust/pump lake down during declared state of emergency, establish Memorandum of Understanding with SJRWMD for all potential drawdowns:

Section 252.363 of the Florida Statutes provides that upon the declaration of a state of emergency, permits and other authorizations are tolled for the duration of the declaration, and that they may be extended automatically upon the exercise of the notice requirements of Section 252.363(1)(a) for an additional six months. The tolling and extension provisions apply to the expiration of:

- a. Development orders issued by a local government*
 - b. Building permits*
 - c. Florida Department of Environmental Protection or water management district permits issued pursuant to Part IV of Chapter 373, Florida Statutes*
- Consider purchase of bypass pump(s) including floating intake attachment and suction and discharge hoses.
 - Perform a survey to record lowest Finished Floor Elevation (FFE) for all City lakes.
 - Consider installing auto-read lake level gauges with telemetry services for major City lakes.
 - Consider installing additional weather stations with telemetry services within City limits.



item type Staff Updates	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Lakes Management

item list

- No Water Quality Data Update
- Small Treatments
- Eelgrass Expanding
- Lake Bell weir board
- NRCS Update on sediment removal
- Maintenance & Efforts
- Geosyntec Scope of Work
- Board Appreciation Save the Date - June 29th @ 5:30 p.m.
- Telemetry Station Update
- Fertilizer Rules

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[Lake Update 06.2023](#)

ATTACHMENTS:

[Geosyntec Scope of Work](#)

ATTACHMENTS:

[Board Appreciation Save the Date](#)

ATTACHMENTS:

[Fertilizer Rules](#)

LAKE UPDATE:

- No Water Quality Updates Since January 2023
- Small Spot Treatments
- 1 acre Band Treatment Along South Shore
- Eelgrass Expanding in Cove/ Clarity Improving
- Lake Bell Weir Board Pulled June 1st
- Status of NRCS Funding
- Maintenance and Efforts:
 - 150 gal debris
 - 40 gal trash
 - Trees trimmed in canal
- Follow-up Items
 - Presentation on Pool Pollution (June 28)

May 26, 2023

Mr. Don Marcotte, PE

Assistant Public Works Director – City Engineer
City of Winter Park Public Works Department
1409 Howell Branch Road
Winter Park, Florida 32789

Subject: **Proposal for CRA Study Update and Lake Killarney Expansion**
Continuing Contract for Professional Stormwater Management & Design Services
City of Winter Park, Florida

Dear Mr. Marcotte:

Geosyntec Consultants, Inc. (Geosyntec) is pleased to provide this proposal for providing our services for the above referenced project.

BACKGROUND

The City of Winter Park (City) is interested in having Geosyntec update the CRA Stormwater Master Plan (Geosyntec, 2020) and expand the study to include the contributing areas to Lake Killarney, Lake Bell, Lake Wilderness, and Lake Gem.

The City experienced significant flooding during Hurricane Ian in 2022 in the areas around Lake Killarney, Lake Mendsen (MLK Park), and Lake Bell. As a result, the City is interested in revisiting previous alternatives to reduce flooding around Lake Mendsen and alternatives to improve the interconnections between Lake Killarney, Lake Bell, and Lake Gem. Updates and expansion of the existing CRA study model is necessary to evaluate conceptual improvements.

SCOPE OF WORK

The consultant will perform the following engineering services under this task order:

- 1. Data Evaluation** - Collect, assemble, and evaluate existing data. Data collected previously during the CRA study will be updated and expanded as needed.
 - 1.1. GIS Data Collection and Compilation - Compile relevant GIS and mapping data including topographical data, aerials, parcels, roads, wetlands, landuse, soils, political boundaries, watersheds, hydrography, FEMA floodzones, etc.
 - 1.2. Data Collection and Compilation - Compile relevant available reports, surveys, plans (City, SJRWMD, etc.), and previous studies for drainage information and other information relevant to the project. It is noted that the City specifically requested review of the Interstate 4 drainage plans and permit documents to determine accurate basins and the Lake Wilderness permit documents.
 - 1.3. Compile and map drainage infrastructure data in GIS based on collected plans, surveys, permits, studies, etc.
 - 1.4. Existing Problem Identification – Identify flooding and water quality treatment deficiencies in the study area based on data evaluation. Also, meetings and discussions with County engineering and operations staff will be conducted to identify known problem areas.

2. Field Reconnaissance and Investigation

- 2.1. Field reconnaissance planning – Identification of data gaps and locations that require field verification.
- 2.2. Field reconnaissance & mapping - Field reconnaissance to confirm key drainage infrastructure data from plans and previous studies, drainage divides, drainage patterns, etc. Field notes and photographic documentation will be collected. Up to two (2) man days for two (2) Geosyntec staff are anticipated.
- 2.3. Compile and map field data – translate and organize field data (drainage information, contributing area observations, site features, photos, etc.) into GIS database to support existing conditions assessment.
- 2.4. Survey Needs Identification – Identify drainage structures and cross-sections needed to support development of the existing conditions H&H model.

3. Existing Conditions Assessment

- 3.1. Develop model basins and hydraulic network – based on the collected data, a hydrologic & hydraulic (H&H) model network will be developed in order to evaluate the level of service (LOS) of the drainage system and support project conceptualization. ICPR version 4 is proposed as the H&H model. The Canton Avenue area in the model will continue to utilize a two-dimensional (2D) overland flow model approach. Other areas of the model will utilize a one-dimensional (1D) model approach. The model domain will include the previous CRA model and the contributing areas to Lake Killarney, Lake Bell, Lake Wilderness, and Lake Gem. Only minor adjustments to the existing CRA hydraulic model network are anticipated, however, due to newer 2019 LiDAR topographic data the hydrologic basins within the CRA may require significant revisions. The model network outside of the CRA study area will focus on the lakes, lake interconnections, and significant flood storage in the contributing areas.
- 3.2. Parameterize Model Hydrologic and Hydraulic Data – populate model-specific hydrological data including rainfall excess parameters (land cover, subbasin areas, rainfall depths, etc.) and hydraulic information (pipe geometry, pump operating tables and rating curves, overtopping weirs, tailwater elevations, etc.).
- 3.3. Setup and Execute Simulations in H&H Model & Evaluate Model Performance – run H&H model and adjust model parameters to eliminate instability and mass balance issues, summarize results. Single event design storm simulations are anticipated.
- 3.4. Model Validation – Run historical flood event simulation (Hurricane Ian) and compare model results to historical flooding data provided by the City and lake water level data (if available). Also, compare design storm event model results to known flooding problems. Adjust model parameters, if necessary, to increase accuracy of representing historical data.
- 3.5. Assess LOS of Drainage Infrastructure from Model Results – based on H&H model results, evaluate LOS of infrastructure to identify flood prone locations and provide a baseline for evaluation of the improvements.

4. Revisit CRA Alternatives Analysis – Previous improvement alternatives will be reviewed and reevaluated. Based on discussion with City staff, the MLK Park underground storage alternative evaluated previously is too expensive and is not considered cost effective. Usage of additional park land to increase flood storage will be considered. Also, the water quality impacts of connecting to Lake Mendon and Lake Rose and increasing the lake size will be evaluated. In addition, the Canton Avenue improvement alternative will be reevaluated and adjusted as needed. The following tasks will be completed.

- 4.1. Develop Flood Improvement Concepts – Up to 3 improvement concepts will be provided.

- 4.2. Evaluate Improvement Concepts in H&H model – parameterize and run conceptual conditions models with improvement features to evaluate LOS improvement.
- 4.3. Evaluate Water Quality Impacts – evaluate pollutant load impacts of proposed conceptual improvements.
- 4.4. Prepare sketches of improvement concepts – prepare GIS or CADD based sketches depicting improvements. The sketches may include profile or cross-section views of the concepts if considered necessary.
- 4.5. Implementation and cost evaluation – prepare conceptual engineer’s estimates of probable costs for the improvements to develop benefit cost information. Overall benefit will also consider permitting, long term maintenance, constructability, water quality benefit, etc. The improvement concepts at each location will be compared and ranked based on the cost and other implementation considerations.
5. **Lake Bell and Lake Killarney Alternatives Analysis** – Flood improvement alternative concepts will be evaluated for the Lake Bell, Lake Wilderness and Lake Killarney interconnections. At a minimum, the following potential alternatives will be evaluated:
 - Provide a direct connection from Lake Bell to Lake Gem.
 - Improvements to the existing connection from Lake Killarney to Lake Gem.
 - Adjustments to the risers on the Lake Killarney drainwells.
- 5.1. Develop Flood Improvement Concepts – At a minimum, 4 improvement concepts will be provided.
- 5.2. Evaluate Improvement Concepts in H&H model – parameterize and run conceptual conditions models with improvement features to evaluate LOS improvement.
- 5.3. Evaluate Water Quality Impacts – evaluate pollutant load impacts of proposed conceptual improvements.
- 5.4. Prepare sketches of improvement concepts – prepare GIS or CADD based sketches depicting improvements. The sketches may include profile or cross-section views of the concepts if considered necessary.
- 5.5. Implementation and Cost Evaluation – prepare conceptual engineer’s estimates of probable costs for the improvements to develop benefit cost information. Overall benefit will also consider permitting, long term maintenance, constructability, water quality benefit, etc. The improvement concepts at each location will be compared and ranked based on the cost and other implementation considerations.
6. **Draft Report**
 - 6.1. Report Narrative
 - *Introduction and Background* - description of the study area, study goals and expectations, and apparent deficiencies.
 - *Data Collection and Review* - description of data collected, relevancy and usage of data.
 - *Existing Conditions Assessment* - discussion of efforts undertaken to evaluate the existing conditions. Included will be a discussion of H&H model setup, parameterization, and execution, discuss results of the H&H model LOS assessment (this will include clearly summarizing deficiencies that warrant corrective action - tabular data summaries will be provided where applicable).

- *Improvement Alternatives Analysis* - Narrative will include the criteria used to base the evaluation of system upgrade concepts for improvements in LOS. Descriptions of the concepts with respect to design intent, success in meeting treatment/LOS objective, as well as other implementation criteria such as permitting, long term maintenance, and constructability - tabular data summaries will be provided where applicable).
- *Conclusions and Recommendations* - Report will include a comprehensive wrap-up of report data including existing conditions assessment conclusions, results of alternatives analysis, and providing specific recommendation(s) for City's consideration.

6.2. Prepare Figures and Exhibits – The following figures and exhibits are anticipated:

- Project Vicinity and Site Maps
- Drainage Infrastructure Maps
- Topographic, Soils and Land Cover, FEMA Floodplain Maps
- Existing Conditions Model Network and LOS Results Map
- Alternative Improvement Conceptual Conditions Model Network and LOS Results Map
- Improvement Concept Maps - depicting improvement sketches with relevant feature details (cross-section, structure details, etc.).

6.3. Compile Backup Data (Appendices and Electronic Data) – compile all relevant back-up data (model data, plans, reference data, etc.) into report appendices and electronic backup data.

6.4. QA/QC Review - Draft Report

6.5. Assemble and Transmit Draft Report PDF

7. Final Report

7.1. Prepare Response and Approach to Address City Comments on Draft Report – A letter detailing Geosyntec's approach to responding to comments from the City will be submitted for City review. After agreement on the approach to comments, Geosyntec will address comments in the Final Report.

7.2. Incorporate City Comments and Compile Final Report

7.3. QA/QC Review - Final Report

7.4. Assemble and Transmit Final Report

7.5. Compile Electronic Deliverables on Disc – this will include a PDF of the final report, copies of all modeling data, copies of GIS/CADD files, copies of all back-up data, etc.

8. Public Meetings – Meetings to present study results to the Lake Killarney, Lakes Boards, and / or City Commission. Budget includes preparation for and attendance by Geosyntec staff at up to three (3) public meetings.

8.1. Prepare PowerPoint Presentation

8.2. Attend Meetings – assume 2 staff

9. Project Management

This task includes efforts to ensure proper project administration, effective communication within the project team and to the City, as well as technical procedures and guidelines are followed throughout the project

duration. This will allow for successful project delivery to the City. The following project management tasks will be completed:

- 9.1. Project setup & administration
- 9.2. Status meetings / schedule updates / miscellaneous correspondence
- 9.3. Monthly project tracking & status reports

SCOPE ASSUMPTIONS

1. The scope does not include meetings with the SJRWMD to discuss permitting of any of the proposed improvement alternatives.
2. The Interconnected Channel and Pond Routing Model (ICPR) Version 4 will be the hydrologic/hydraulic model utilized to analyze the drainage systems for this study.
3. No surveying services are included during the initial feasibility phase of work. Physical information on infrastructure (e.g., pipe inverts, etc.) needed for the model will be based on available plans and field measurement. If the need for survey is identified during the course of the project, surveying services may be added through a contract amendment.
4. Geotechnical services are not included in this scope of work. If the need for geotechnical work is identified during the course of the project, geotechnical services may be added through a contract amendment.
5. Services related to ecological/environmental assessments, mitigation plans, or surveying of any jurisdictional wetlands are not included in this proposal. If the need for this work is identified during the course of the project, ecological services may be added through a contract amendment.
6. The engineering sketches of the proposed improvements will be conceptual sketches only and are not intended to be used to support a permit application or as construction plans. A scope of work to provide detailed plans to support construction and permitting can be provided separately once the improvement concept is agreed upon.
7. Deliverables will be provided in electronic format only - digital PDF copy on disk with all backup data.

BUDGET ESTIMATE

Geosyntec proposes to provide the services discussed herein for **\$207,485.26**, in accordance with the terms and conditions specified herein and pursuant to Geosyntec's April 2023 contract for professional services with the City. The not to exceed fee amount is based on our estimated budget for performing these services, which includes the labor, subconsultant fees, and other direct costs necessary to complete the work scope described in the proposal, as detailed in Attachment A.

Project efforts will be billed to the City on a task percent complete basis, based on the major tasks defined in the cost build-up spreadsheet in Attachment A. Invoices will be structured to list project tasks (and other direct cost) with accomplished percent complete, and then corresponding budget invoiced, overall budget expended and overall budget remaining. A separate status report will be provided to the City's project manager providing a narrative of work accomplished supporting the invoice.

SCHEDULE

Geosyntec can begin work immediately upon receipt of the Notice to Proceed (NTP). The following scope tasks are anticipated to be completed sequentially in the order and durations listed in the table below:

Task	Task Duration	Project Duration from NTP
1 - Data Evaluation	4 weeks	4 weeks
2 – Field Reconnaissance and Investigation	3 weeks	7 weeks
3 - Existing Conditions Assessment	8 weeks	15weeks
4 – Revisit CRA Alternatives Analysis	4 weeks	19 weeks
5 – Lake Bell and Lake Killarney Alternatives Analysis	6 weeks	25 weeks
6 - Draft Report	4 weeks	29 weeks
City Review of Draft Report	2 weeks	31 weeks
7 - Final Report	3 weeks	34 weeks
8 – Public Meetings	2 weeks	36 weeks
9 – Project Management	36 weeks	

CLOSURE

We appreciate the opportunity to work with the City on this project. Should you have any questions or comments regarding this proposal, please do not hesitate to contact us at (407) 321-7030.

Sincerely,
Geosyntec Consultants, Inc.



Thomas Amstadt, PE, CFM
Principal - Project Manager
tamstadt@geosyntec.com



Mark W. Ellard, PE, CFM, D.WRE
Senior Principal
mellard@geosyntec.com

cc: Charles Ramdatt, Public Works Director and Don Marcotte, City Engineer

Attachments

A – Project Budget Estimate

NOTICE TO PROCEED

Geosyntec's budget request for the services described in Geosyntec's May 26, 2023 Proposal to the City of Winter Park is provided in the below table. Services will be billed on a task percent complete basis with a wage-cost-multiplier for a fee not to exceed the requested budget listed in the table below, and is subject to the terms and conditions in the Continuing Contract for Professional Stormwater Management and Design Services (RFQ-6-2023) dated April 26th, 2023.

Task	Requested Budget
1 - Data Evaluation	\$15,782.00
2 - Field Reconnaissance & Investigation	\$13,412.00
3 - Existing Conditions Assessment	\$51,334.00
4 – Revisit CRA Alternatives Analysis	\$22,718.00
5 – Lake Bell and Lake Killarney Alternatives Analyst	\$32,573.00
6 – Draft Report	\$21,826.00
7 – Final Report	\$9,929.00
8 – Public Meetings	\$14,706.00
8 - Project Management	\$19,162.00
Communications Fee	\$6,043.26
TOTAL:	\$207,485.26

This estimate is based on Geosyntec's current knowledge of the work assignment and the estimated amount is believed sufficient to cover performing the services described herein. Our estimated cost for performing these services includes the labor and materials believed necessary to complete the work scope described in the proposal. Any deviation from this work scope resulting from additional requests by the Client, new information or other considerations may result in modification of the work scope and a request for additional budget.

By its signature below authorizing Geosyntec to proceed in accordance with this Proposal, Client agrees to and approves of this Proposal. Please return this executed Notice to Proceed to Geosyntec. Upon receipt of the executed Notice to Proceed and official City Purchase Order, Geosyntec will initiate performance of the services described herein.

Agreed and Accepted by Client's Authorized Representative:

By: _____

Signature

Title

Printed Name

Date

ATTACHMENT A

BUDGET ESTIMATE

EXHIBIT A - FEE ESTIMATE

CRA Study Update and Lake Killarney Expansion Winter Park, Florida														Date:	05/26/23															
Activity		Principal Engineer		Senior Professional Engineer		Professional Engineer		Sr. Staff Professional		Staff Professional		Project Administrator		Basic Activity Amount	Man-hours by Activity	Average Hourly Rate														
		Rate = \$274.00		Rate = \$254.00		Rate = \$198.00		Rate = \$178.00		Rate = \$154.00		Rate = \$85.00																		
		Manhours	Cost	Manhours	Cost	Manhours	Cost	Manhours	Cost	Manhours	Cost	Manhours	Cost																	
1 Data Evaluation																														
1.1	GIS Data Collection and Compilation																\$0.00		\$0.00	2	\$396.00		\$0.00	4	\$616.00		\$0.00	\$1,012.00	6	\$168.67
1.2	Data Collection and Compilation																\$0.00	2	\$508.00	4	\$792.00		\$0.00	20	\$3,080.00		\$0.00	\$4,380.00	26	\$168.46
1.3	Compile and map drainage infrastructure data																\$0.00	2	\$508.00	8	\$1,584.00		\$0.00	40	\$6,160.00		\$0.00	\$8,252.00	50	\$165.04
1.4	Existing Problem Identification															0.5	\$137.00	2	\$508.00	4	\$792.00		\$0.00	4	\$616.00	1	\$85.00	\$2,138.00	11.5	\$185.91
SUBTOTAL		0.5	\$137.00	6	\$1,524.00	18	\$3,564.00	0	\$0.00	68	\$10,472.00	1	\$85.00	\$15,782.00	93.5	\$168.79														
2 Field Reconnaissance and Investigation																														
2.1	Field Reconnaissance Planning																\$0.00	2	\$508.00		\$0.00		\$0.00	8	\$1,232.00		\$0.00	\$1,740.00	10	\$174.00
2.2	Field reconnaissance & mapping																\$0.00		\$0.00		\$0.00	20	\$3,560.00	20	\$3,080.00		\$0.00	\$6,640.00	40	\$166.00
2.3	Compile and map field data																\$0.00	2	\$508.00		\$0.00		\$0.00	8	\$1,232.00		\$0.00	\$1,740.00	10	\$174.00
2.4	Survey Needs Identification															0.5	\$137.00	1	\$254.00	8	\$1,584.00		\$0.00	8	\$1,232.00	1	\$85.00	\$3,292.00	18.5	\$177.95
SUBTOTAL		0.5	\$137.00	5	\$1,270.00	8	\$1,584.00	20	\$3,560.00	44	\$6,776.00	1	\$85.00	\$13,412.00	78.5	\$170.85														
3 Existing Conditions Assessment																														
3.1	Develop model basins and hydraulic network															0.5	\$137.00	8	\$2,032.00	28	\$5,544.00	20	\$3,560.00	40	\$6,160.00		\$0.00	\$17,433.00	96.5	\$180.65
3.2	Parameterize Model Hydrologic and Hydraulic Data															0.5	\$137.00	4	\$1,016.00	40	\$7,920.00	12	\$2,136.00	16	\$2,464.00		\$0.00	\$13,673.00	72.5	\$188.59
3.3	Setup and Execute Simulations in H&H Model & Evaluate Model Performance																\$0.00	2	\$508.00	16	\$3,168.00	8	\$1,424.00	8	\$1,232.00		\$0.00	\$6,332.00	34	\$186.24
3.4	Model Validation																\$0.00	2	\$508.00	16	\$3,168.00	8	\$1,424.00	8	\$1,232.00		\$0.00	\$6,332.00	34	\$186.24
3.5	Assess LOS of Drainage Infrastructure From Model Results																\$0.00	2	\$508.00	16	\$3,168.00	8	\$1,424.00	16	\$2,464.00		\$0.00	\$7,564.00	42	\$180.10
SUBTOTAL		1	\$274.00	18	\$4,572.00	116	\$22,968.00	56	\$9,968.00	88	\$13,552.00	0	\$0.00	\$51,334.00	279	\$183.99														
4 Revisit CRA Alternatives Analysis																														
4.1	Develop Flood Improvement Concepts															0.5	\$137.00	4	\$1,016.00	6	\$1,188.00	12	\$2,136.00	24	\$3,696.00		\$0.00	\$8,173.00	46.5	\$175.76
4.2	Evaluate Improvement Concepts in H&H model																\$0.00	1	\$254.00	4	\$792.00	6	\$1,068.00	12	\$1,848.00		\$0.00	\$3,962.00	23	\$172.26
4.3	Evaluate Water Quality Impacts															2	\$548.00		\$0.00	4	\$792.00	6	\$1,068.00	8	\$1,232.00		\$0.00	\$3,640.00	20	\$182.00
4.4	Prepare sketches of improvement concepts																\$0.00	2	\$508.00	4	\$792.00	6	\$1,068.00	12	\$1,848.00		\$0.00	\$4,216.00	24	\$175.67
4.5	Implementation and Cost Evaluation																\$0.00	1	\$254.00	2	\$396.00	6	\$1,068.00	6	\$924.00	1	\$85.00	\$2,727.00	16	\$170.44
SUBTOTAL		2.5	\$685.00	8	\$2,032.00	20	\$3,960.00	36	\$6,408.00	62	\$9,548.00	1	\$85.00	\$22,718.00	129.5	\$175.43														
5 Lake Bell and Lake Killarney Alternatives Analysis																														
5.1	Develop Flood Improvement Concepts															1	\$274.00	6	\$1,524.00	8	\$1,584.00	20	\$3,560.00	40	\$6,160.00		\$0.00	\$13,102.00	75	\$174.69
5.2	Evaluate Improvement Concepts in H&H model																\$0.00		\$0.00	6	\$1,188.00	8	\$1,424.00	16	\$2,464.00		\$0.00	\$5,076.00	30	\$169.20
5.3	Evaluate Water Quality Impacts															2	\$548.00		\$0.00	8	\$1,584.00	8	\$1,424.00	8	\$1,232.00		\$0.00	\$4,788.00	26	\$184.15
5.4	Prepare sketches of improvement concepts																\$0.00	4	\$1,016.00	4	\$792.00	8	\$1,424.00	24	\$3,696.00		\$0.00	\$6,928.00	40	\$173.20
5.5	Implementation and Cost Evaluation																\$0.00	1	\$254.00	2	\$396.00	4	\$712.00	8	\$1,232.00	1	\$85.00	\$2,679.00	16	\$167.44
SUBTOTAL		3	\$822.00	11	\$2,794.00	28	\$5,544.00	48	\$8,544.00	96	\$14,784.00	1	\$85.00	\$32,573.00	187	\$174.19														
6 Draft Report																														
6.1	Report Narrative																\$0.00	4	\$1,016.00	12	\$2,376.00		\$0.00	36	\$5,544.00		\$0.00	\$8,936.00	52	\$171.85
6.2	Prepare Figures and Exhibits																\$0.00	2	\$508.00	4	\$792.00	16	\$2,848.00	36	\$5,544.00		\$0.00	\$9,692.00	58	\$167.10
6.3	Compile Backup Data (Appendices and Electronic Data)																\$0.00	1	\$254.00	2	\$396.00		\$0.00	2	\$308.00		\$0.00	\$958.00	5	\$191.60
6.4	QA/QC Review															2	\$548.00	4	\$1,016.00		\$0.00		\$0.00		\$0.00		\$0.00	\$1,564.00	6	\$260.67
6.5	Assemble and Transmit Draft Report PDF																\$0.00		\$0.00	1	\$198.00		\$0.00	2	\$308.00	2	\$170.00	\$676.00	5	\$135.20
SUBTOTAL		2	\$548.00	11	\$2,794.00	19	\$3,762.00	16	\$2,848.00	76	\$11,704.00	2	\$170.00	\$21,826.00	126	\$173.22														
7 Final Report																														

<i>CRA Study Update and Lake Killarney Expansion</i> <i>Winter Park, Florida</i>	<i>Date:</i> 05/26/23
--	-------------------------------------

SUBCONSULTANTS		
<i>Name</i>	<i>Amount</i>	<i>Percentage</i>
(1)		0.0%
(2)		0.0%
(3)		0.0%
(4)	\$ -	0.0%
Total Subconsultant Fees:	\$ -	0.0%

TOTAL LUMP SUM FEE COMPUTATIONS		
(1) Professional Fees (from above) =		\$201,442.00
(2) Communications Fee (3% of Professional Fees) +		\$6,043.26
(3) Direct Expenses (from attached sheet) +		\$0.00
(4) Subtotal (Consultant's Fees) [(1)+(2)+(3)] =		\$207,485.26
(5) Subconsultant's Fees (from left) +		\$0.00
Proposed Total Lump Sum Fee	[(3)+(4)+(5)]	= \$207,485.26



save the date fer

2023 BOARD APPRECIATION

DOWNTOWN HOEDOWN
MOSEY AROUND

KICK UP YOUR HEELS @ THE FARMERS' MARKET

THURSDAY • JUNE 29 • 2023

200 West New
England Avenue
Winter Park

5:30 to
7 p.m.

fun line dancing
fine 4Rivers grub
fab frozen drinks

rsvp by 06.19.2023 to jmiller@cityofwinterpark.org

see y'all @ the shindig



IMPORTANT FERTILIZER RULES

June 01
Sept 30^{to}

Apply only fertilizer
with **zero** nitrogen
& phosphorus.

NOW

Oct 01
May 31^{to}

If fertilizer has nitrogen,
at least **65% N** must be
slow release type.

Keep fertilizer at least
25 feet from natural
waterbodies.

**year
round**

Limit application to
1 pound total nitrogen
per 1,000 square feet.

Use **zero** phosphorus
unless a soil test shows
a deficiency.

**MORE
INFO**

scan the code or access
**cityofwinterpark.org/
lakes/fertilize-wisely**

includes complete ordinance details





item type Staff Updates	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Stormwater Management

item list

- CIP Update
- Infrastructure Projects: Nicolet Pond, Killarney Dr. pipe replacement
- Small Repairs: Lake Dr. pothole
- Current Lakefront Construction
- Killarney Estates Subdivision Property Management Update
- Water Elevation Policy Draft for Lakes and Stormwater
- Orange County Stormwater Improvement Update
- Library and Event Center - Stormwater Management As-Builts Update
- Street Sweeping - Killarney Drainage Basin
- CRS Update

Follow-up Items:

- BMP feasibility study for Killarney Dr. Outfall Consolidation (when available)
- Outfall Condition Update

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[SW Update 6.23](#)

Stormwater Staff Update

Lake Killarney Advisory Board

CITY OF WINTER PARK - STORMWATER CAPITAL IMPROVEMENT PROJECTS UPDATE 5/3/2023

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	\$196,149	Several in-house drainage improvements projects to be scheduled for 2022-23, Ward Park ponds pipe construction, Palmer at Old England outfall repair, replacement of 70ft of 24 inch RCP crossing Joeline Court, stormwater outfall dredging, curb implementation.
				1) <u>Palmer at Old England outfall repair</u> - A video inspection to be scheduled to determine the existing condition of the outfall pipe. Design and construction will be scheduled as needed. Estimated cost \$20k.
				2) <u>Stormwater Outfall Dredging</u> - The City recently entered a new contract for dredging and is developing a schedule for several stormwater outfalls.
				3) <u>Ward Park ponds construction</u> - Estimated cost \$150k. NE and NW Pond excavation and sodding is complete. The piping to be installed in March 2023.
				4) <u>Curb Implementation</u> - Commission approved \$50,000 in the City's FY'23 budget. Locations to be determined and coordinated with asphalt resurfacing projects.
565203	Lk. Bell Weir Outfall Improvements -	2009	\$69,223	Repairs may be required on the Lake Bell outfall weir, will continue to assess the condition in 2023.
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 on October 13, 2021 and by the Seminole County Commission on December 14, 2021. 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. Project manager to be assigned, project schedule to be developed, best management practice analysis to be performed. SJRWMD permit exemption is being requested.
	TOTALS			
	3023406 ACTIVE STORMWATER CIP's		\$1,198,767.09	BALANCE TOTAL

Stormwater Staff Update

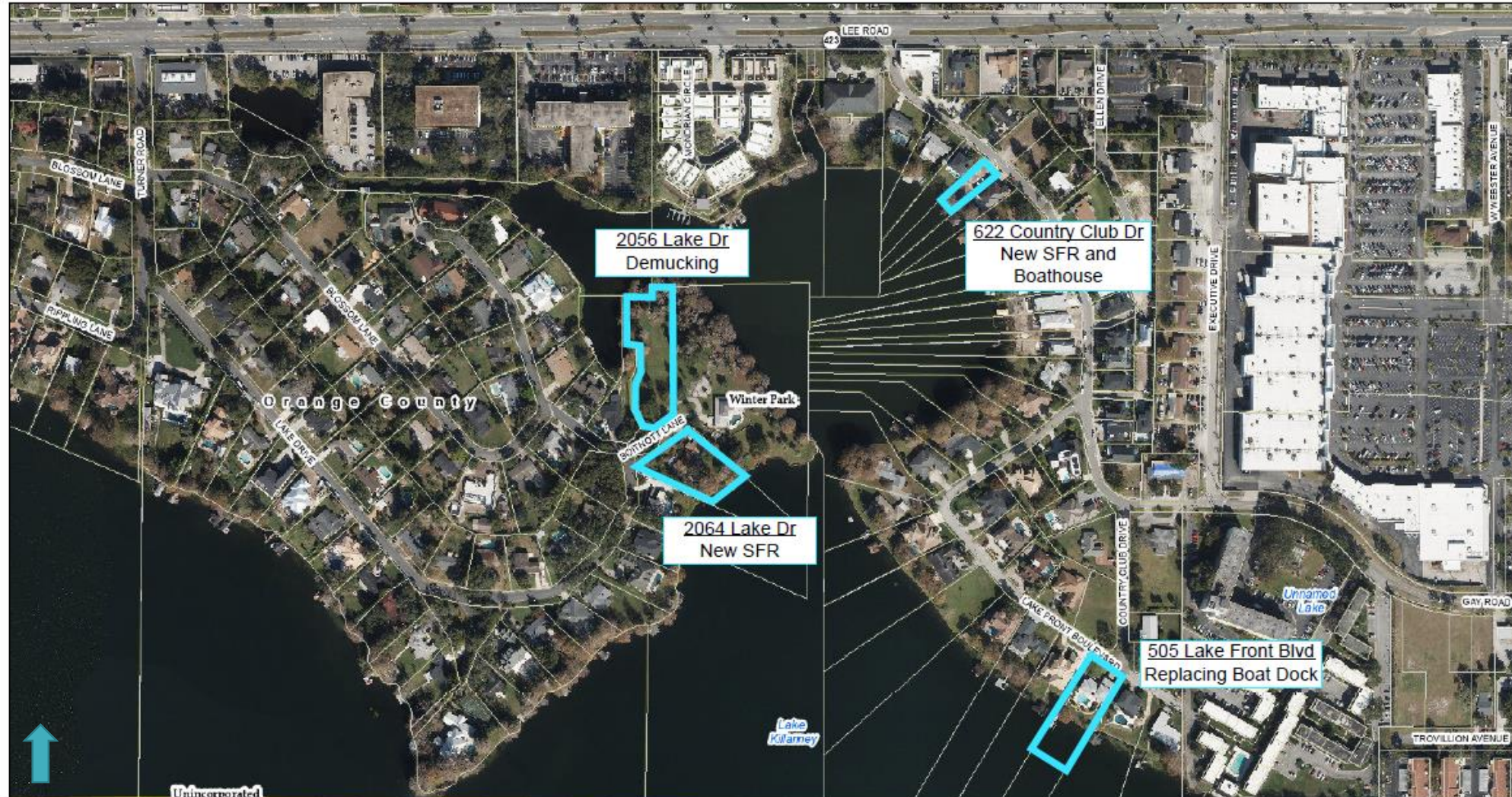
Lake Killarney Advisory Board

- Infrastructure Projects
 - Nicolet Pond
 - Killarney Dr Pipe Replacement
- Small Repairs
 - Lake Dr pothole

Stormwater Staff Update

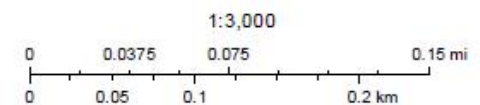
Lake Killarney Advisory Board

Lake Killarney - Current Lakefront Construction



1/24/2023, 9:43:00 AM

Parcels Orange



Stormwater Staff Update

Lake Killarney Advisory Board

- Killarney Estates Subdivision Property Management Update



Stormwater Staff Update

Lake Killarney Advisory Board

- Water Elevation Policy Draft for Lakes and Stormwater
- Orange County Stormwater Improvement Update
- Library and Event Center – Stormwater Management As-Builts Update
- Street Sweeping – Killarney Drainage Basin
- Follow-up items:
 - BMP feasibility study for Killarney Dr Outfall Consolidation (when available)
 - Outfall Condition Update



Lake Killarney Board

agenda item

item type	Staff Updates	meeting date	June 7, 2023
prepared by	Victoria Tabor	approved by	
board approval			
strategic objective			

subject

Orange County Update

item list

- Presentation on Pool Pollution (June 28th)
- Killarney Drive Update

motion / recommendation

background

alternatives / other considerations

fiscal impact



Lake Killarney Board

agenda item

item type Board Comments	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Discussion of Public Comments Received

motion / recommendation

background

alternatives / other considerations

fiscal impact



Lake Killarney
Board

agenda item

item type Upcoming Agenda Items	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Upcoming Agenda Items

motion / recommendation

background

alternatives / other considerations

fiscal impact



Lake Killarney
Board

agenda item

item type Upcoming Agenda Items	meeting date June 7, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Summary of Meeting Action Items

motion / recommendation

background

alternatives / other considerations

fiscal impact