



Lake Killarney Board Regular Meeting

Agenda

June 5, 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 March 6, 2024 1 minute
- b. Approve the minutes of May 1, 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.)****5. Action Items****6. Non-Action Items**

- a. CRS Presentation 15 Minutes

7. Staff Updates

- a. Orange County Update 10 Minutes
- b. Lakes Management 10 Minutes
 - Dock Violation Update
 - Outfalls Treated
 - Lake Elevation
 - Maintenance & Efforts
 - Water Quality

Follow-up Items:

- Workshop Re-Prioritize List
- c. Past & Upcoming Events: 5 Minutes
 - Lakes Event - 5/11 9am @ Lakes Knowles & Wilbar
 - Lakes Event - 5/18 9am @ Lake Chelton
 - Lakes Event - 6/8 9am @ Lake Bell
 - Board Orientation - 6/13 6pm @ Commission Chambers
 - Paddleboard Clean-up - 6/15 9am @ Kraft Azalea
 - Board Appreciation - 6/20 5:30pm @ WP Pines

- Lakes Event - 6/22 9am @ Lakes Temple & Tuscany
- Vermicomposting Class - 6/27th 6pm @ WP Library

d. Stormwater Management

10 Minutes

- CIP Update
- Nicolet Pond, Killarney Dr. Pipe Replacement, & Lake Bell Weir Project Timeline
- Nicolet Design & Diagram
- Killarney Dr. Plans
- Lake Front Construction Updates
- Exfiltration System Current Code
- Full List of Private Exfiltration Systems
- Library /Events Exfiltration Maintenance Report

Follow-up Items:

- BMP Feasibility Study for Killarney Dr. Outfall Consolidation
- BMP Photos
- Outfall Condition Update
- Library /Event Center Additional Parking Design (when available)
- Exfiltration System flowchart for Maintenance & Inspection

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 2.a

item type

Consent Agenda

meeting date

June 5, 2024

prepared by**approved by****subject**

Approve the minutes of March 6, 2024

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

1. LKB-min-2024-03-06 Amended 5-7



Lake Killarney Board Regular Meeting Minutes

March 6, 2024 at 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

Present

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

Staff Present

Director of Natural Resources and Sustainability Gloria Eby, Director of Public Works and Transportation Charles Ramdatt, Assistant Director of Public Works Don Marcotte, Public Works Engineer Shannon Monahan, City Attorney Dan Langley, Administrative Coordinator Victoria Tabor

Also Present

Orange County Senior Environmental Specialist Nidia Volepe (virtual), Orange County Lake Killarney Board Member Langdon Stanley, Senior Principal at Terracon Consultant Jay Casper.

1. Call to Order

Vice Chair Dickerson chaired the meeting due to Chair Jeanne Wall's virtual participation and called the meeting to order at 10:02.

2. Consent Agenda

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

The following amendments were made to the minutes:

- Page 3 of 5 – change "slipway" to "spill way" in the last paragraph.
- Page 4 of 5 CIP Updates – add separate bullet point for Lake Bell weir
- On the same page under follow-up items, Mrs. Wall asked for clarification and Mr. Marcotte explained the commission will discuss the board's request for a separate line item for all lake dredging will be in the next five-year CIP cycle, which would be approximately six years from now. Ms. Wall requested to have the commission's motion and vote inserted into the minutes.

Staff clarified the first paragraph under Upcoming Agenda Items.

Motion made by Mr. Voecks to table approve the minutes to the next meeting after amendments are made, seconded by Ms. Wall. Motion carried unanimously with a 7-0 vote.

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

Laura Kunzweiler, 2000 Lake Drive, (on the canal where dredging is underway), directly impacted by the canal beautification project. She is concerned about the impact of the beautification project with the removal of a Brazilian Pepper Tree that provided safety and privacy for their property. Ms. Kunzweiler is concerned about what the final product is going to be for the safety of her family. She informed staff and board members that a landscaping company across the canal was blowing the clippings in the direction of the canal.

4. Public Hearings

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

Mrs. Eby reviewed the request for a boathouse application for 2054 Lake Drive. The applicant, David Wolf, was not present. She said this has been tabled and action needs to be taken in this meeting. Attorney Dan Langley, commented the board can reorganize the agenda to postpone the item for later in the agenda, ~~it could continue~~.

Motion made by Mrs. Wall to move the public hearing to after staff updates on the agenda; second by Mr. Ellison. Motion unanimously with a 7-0 vote.

Motion made by Mr. Ellison to move the public hearing to before staff updates on the agenda; second by Mrs. Cunningham. Motion unanimously with a 7-0 vote.

Mrs. Eby reopened the public hearing, she reviewed the dock parameters, proposed and allowed, which meets criteria and no variances are required. Staff is recommending approval. She showed area views of the location and property and images, survey and site plan showing the dock configuration. Mrs. Wall asked about side setbacks. Mrs. Eby said no side setbacks are required since the adjacent property is owned by the applicant. Mrs. Wall suggested clarifying a variance is required, but approval of the adjacent property owner was received.

Applicant David Wolf said he understands the major concerns of the board are navigation and sight lines. He explained University of Florida findings on navigation clear path to navigable water is not entitled to navigable water, which his dock. If Mr. Wolf put his dock where the board suggested it would limit the only lake view from the house and would diminish his property value if placed in that location. He addressed allocation of riparian rights and the location of the dock and would not violate the rule (affecting his navigation, but not legal rights). Mr. Wolf continued with the second major concern, which is sight line. The concern of the sight line view of the new dock would impact their "view of the water." If this dock was built the neighbors would see the backyard of a vacant lot past Mr. Wolf's dock. When living in a cove there is no expectation of privacy across the water/cove. He clarified that the current plan is revised plan. Mrs. Wall asked who is the contractor and Mr. Wolf responded that he will pull the permit as owner/builder with intent to build himself.

Mrs. Wall asked for the total square footage of the dock permitted on Country Club/Killarney Estates homes. Mrs. Eby said restrictions were made in the plat. Mr. Langley

provided the verbiage for the code regarding Lake Killarney that boat houses in the canal/cove can be no more than 30' into the lake. Mrs. Monahan provided that the square footage is 480 sq. ft. Mrs. Eby stated requirements for Lake Killarney are not applicable to the codes applicable to this properties in Killarney Estates and this request. Discussion followed on basis for establishing different regulations for the Killarney Estates.

Mrs. Wall continued to speak about the docks being built at Killarney Estates being R-2 lots had them next to each other to preserve line of sight (Mr. Wolf is an R-1 lot). Mrs. Wall concern about safety in navigating around that dock, she asked if Mr. Wolf would consider reducing the width. Mr. Wolf would be willing to consider if there wouldn't be a negative impact on our property values and enjoyment of the lake as a lake front property owner.

Discussion continued regarding the ability for the neighbors and staff to navigate. Staff confirmed that it would not be an issue and John Gumbrell, 2040 Lake Drive, said he would be comfortable that there will be no safety hazard and be able to dock without undue difficulty. No objection with the dock but concerns the boathouse is oversize for this location. Mr. Wolf thanked the board members and staff for their diligence in listening to information before a motion being made to whether or not to approve the permit or not.

Motion made by Jason Ellison to approve the permit (applicant is within his rights and has done everything the city has requested as far as sizing); second by Joyce Cunningham. Motion carried with a 7-1 vote. Mr. Voecks voted no.

After the motion, Mr. Dickerson asked if navigation would be impeded if either of the neighbors that sit on the lobe decided to tear down their current dock and build a new dock off of the same parameters. Mrs. Eby confirmed that there access would still would be access available. She was not prepared to evaluate all of the docks dimension in the area. From a navigational perspective a dock perpendicular to the shoreline would make it more difficult to navigate.

5. Action Items

6. Non-Action Items

a. MLK Jr. Park Sinkhole Risk Evaluation

Mr. Marcotte introduced Jay Casper, geotechnical engineer at Terracon. Staff is looking to add a small parking lot south of the existing parking lot at the Winter Park Library and Events Center. Mr. Voecks asked if the city adding a new parking lot, and Mr. Marcotte responded that it is being considered and and reassured that all the necessary steps will be taken before it is built. They will mitigate requirements in order to meet city and St. John's River Water Management District (SJWMD) requirements if the commission approves the project.

Mr. Casper reviewed his and his company's experience with soil studies. He showed images of the sinkhole in 1981, now Lake Rose, and subsequent images over the years.

He noted the location of soil boring done in the area and the location of the most recent soil boring tests. He explained how tests are performed and the standards for testing. He referenced the sinkhole study from March 1982, reviewing boring locations and testing. He acknowledged Mr. Voecks notation of a small sinkhole on 17-92 - now the location of Sleep Number business. Mr. Casper showed water flow and water level fluctuations of the sinkhole, which had not changed since the late 1980s. Soil boring at the softball field did not indicate any sinkholes, but suggested a limited grounding program at the top of the limestone layer sealed off, monitoring the softball stadium and just north of the stadium, which is in the area being considered for a small parking lot. Borings in this area and prior to construction of the library and event center were much deeper than normal (20 feet). He showed soil boring locations for the library and event center, which look quite good, but had to remove old landfill trash. He showed a boring comparison of boring and said he found nothing of concern in recent boring results.

Mr. Ramdatt summarized key points – there is general surface outfall from MLK Pond going into Lake Killarney, but the actual groundwater is flowing to the east. Mr. Casper confirmed that the boring within the last three months for the parking lot was at 100 feet and there is no risk of a sinkhole for a parking lot. Mr. Ramdatt explained the 100-foot boring was done to alleviate concerns about the parking lot.

Mrs. Wall addressed concerns about increasing the size of Lake Mendon. Mr. Ramdatt said at the moment staff is only contemplating the small parking lot, need to do additional investigation to mitigate risk. Staff responded to questions regarding exfiltration systems and concerns about water in the existing parking area after heavy rainfall and reported little fluctuation in the lake level in recent years.

Mrs. Wall noted the collapse of condominiums on Lake Killarney. Mr. Casper said they usually find muck under homes and buildings along Lake Killarney. Discussion followed on soil conditions on the shoreline of Lake Killarney.

Mr. Ramdatt responded to questions - staff have not determined the size of the parking area but will accommodate between 30-60 cars. Plans will be subject to city and SJRWMD regulations. Staff monitors and ensures the facilities work well. Mrs. Wall asked for the last inspection and maintenance report for the Library and Event Center. Ms. Monahan explained the inspection of the functionality and maintenance process, if required.

Mr. Ramdatt reassured the board that the staff are dedicated and passionate about following the best engineering practices and in conjunction with all regulatory agency rules. Primary location is the current parking area north of croquet area between Harper Street and the existing maintenance building.

7. Staff Updates

a. Orange County Update

- Storm Pipe Update
- Orange County Lake Killarney Newsletter 2024

Nidia Volpe started the Orange County Update by informing that the Lake Killarney newsletter had been released and sent out to all of the board members. Killarney Drive Drainage Improvements is still in the preliminary phase of getting the easement. Mrs. Volpe will keep Winter Park informed on the progress. Blue Heron sandbar removal, the issue with insurance was resolved and PO was released on Friday, February 16th. The project is completed, the material removed was near expectation. Grading and seeding of the staging area are nearing completion.

b. Lakes Management

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

Follow-Up Items

- Summary of Work Session

Mrs. Eby started Lakes Management update with the NRCS Update. Chuck Robinson is hoping to finish sediment removal in the Killarney Canal within a week. Waiting for the stabilization period to let the sediment and material to settle. Staff will work with residents on the canal during the duration of the rest of the project. There is not a landscape plan/design, but staff will be planting native vegetation. Staff can complete it without expending funds for a formal landscape plan. Staff will be responsible for maintenance. Mr. Ellison asked for assurance that the project is complete within the scope of work. If residents have any questions in regards of the project, staff encourages them to come speak with them.

Langdon Stanley, virtual panelist, had questions in regards of the depth of the canal. He said prop was scraping the bottom two weeks ago. Mrs. Eby confirmed that the vendor dredged more within the last two weeks.

Mr. Ellison left at 12:22 p.m.

Staff responded to questions regarding canal depth and depth standards.

After Mrs. Volpe gave the Orange County Update, Mr. Dickerson directed back to Lakes Management to get an update on dock violation. The update is that the case is in the code compliance process. Mr. Dickerson said he has seen some activity.

c. 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

Due to the time, Ms. Monahan informed the board that all the information is in the packet. She pushed the meeting to board comments.

8. Board Comments

a. Discussion of Public Comments Received

Mrs. Wall asked how did Stormwater get the CDS Unit for Fawsett and Ms. Monahan informed Mrs. Wall that it was funded through CIP for stormwater. Mrs. Wall asked about the pipe replacement on Arbor Park Drive and ask Ms. Monahan if it went through SJRWMD and Ms. Monahan responded with anything requiring a permit must go through SJRWMD. She clarified that anytime an outfall pipe that discharges into a lake always requires a permit and that's not what is being done at Arbor Park Drive.

9. Upcoming Agenda Items

a. Upcoming Agenda Items

b. Summary of Meeting Action Items

- Add the Commission's motion to minutes (separate line item) for February 7th.
- Correction will be added to the Stormwater CIP.
- Clarification to be added to the dock application to edit parameters.
- Stormwater to bring the exfiltration reports for Library and Event Center parking lot.
- Summary of work session - follow up items (will remain on agenda)

Mrs. Minear left at 12:34 p.m.

Mrs. Cunningham asked Mrs. Eby where she could access code for dock violations and specs for canals. Mrs. Eby informed her that it is in Chapter 114 of the city code, and she will send a link.

10. Adjournment

The meeting was adjourned 12:35

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



Lake Killarney Board

agenda item 2.b

item type

Consent Agenda

meeting date

June 5, 2024

prepared by**approved by****subject**

Approve the minutes of May 1, 2024

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

1. LKB-min-2024-05-01 DRAFT Gloria Edit



Lake Killarney Board Regular Meeting Minutes

May 1, 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, Director of Public Works Charles Ramdatt, Assistant Director of Public Works Don Marcotte; Administrative Assistant Victoria Tabor

Also Present:

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

1. Call to Order

Jeanne Wall called the meeting to order at 10:02 a.m.

Ms. Wall asked staff to inform board members in advance who would be attending meetings. In addition, at the request of Ms. Wall, City Clerk Rene Cranis explained the board appointments process and board member terms as a result of the new Mayor and Seat 2 Commissioner.

Motion made by Mr. Voecks to approve the agenda, seconded by Ms. Minear. The motion carried unanimously with a 7-0 vote.

2. Consent Agenda

- a. Approve the minutes of March 6, 2024

The following amendments were suggested:

- Staff to rewrite for clarity the sentence under Public Hearings, Page 4, relating to University of Florida findings on navigation.
- Correction of grammatical errors
- Change Brazilian Pepper tree to "a Brazilian Pepper Tree"
- Staff to rewrite for clarity the second sentence in the first paragraph on Page 3 relating to codes applicable to this request.
- In the first paragraph under non-action items, add the Winter Park Library and Events center to clarify the location of the parking lot.
- Revise the first paragraph under Item 6a, add "requirements" after "mitigate"
- Revise the second paragraph on Page 4 to read "... outfall from MLK Pond going into ...", and "... no risk of a sinkhole for..."

- Staff to review the order of items under Item 6b on Page 5 follow up items. (Minutes reflect order of agenda.)

Motion made by Mr. Ellison to postpone approval of the amended minutes to the next meeting; seconded by Voecks. The motion carried unanimously with a 7-0 vote.

b. Approve the minutes of April 3, 2024

- Under staff updates, the last sentence on page 2, add the location and type of violation.
- On page 3, clarification was made by Ms. Eby that the NRCS contract will be shared on the May agenda.
- Ms. Eby clarified with Mr. Marcotte, that Ms. Monahan did not include the exfiltration inspection criteria in the current presentation.

Motion made by Mr. Dickerson to approve the minutes as edited, seconded by Ms. Cunningham. The motion carried unanimously with a 7-0 vote.

At the request of Ms. Wall, the exfiltration system management project schedule and the library parking design will be reflected as follow-up items on the agenda and all items that were discussed, that are still not available, will reflect as follow-up items on the agenda until they are received.

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

4. Public Hearings

5. Action Items

6. Non-Action Items

7. Staff Updates

- a. Orange County Update - Nidia Volpe had no update.
- b. Lakes Management
 - Natural Resources Conservation Services (NRCS) Update
 - Canal Beautification Project (Keep America Beautiful Grant)
 - Water Quality
 - Violations
 - Small Treatments
 - Lake Level Elevations
 - Maintenance and Efforts
 - Hurricane Season Preparedness
 - Work Session Prioritized List

Ms. Eby presented the Lakes Management update:

- Canal Beautification Project: sediment removal was completed. The beneficial native replantings along the bank will provide a screen from buildings and traffic on Lee Rd.

- No update on water quality - waiting on Orange County for the laboratory results from the spike in the cove area.
- Violations - Fairview has a dilapidated dock being removed by the owners. The owners are working with City due hardship. Killarney Condos has an outstanding violation. The City has requested replanting at the Killarney Condos location. The status of the 2024 Lake Dr. seawall is that final inspection of the cap being placed and sealed is required.
- Small treatments - The Lakes team treated for hyacinth and treated along some of the outfalls as well as the recently restored canal. The team treated Johnson grass in preparation for the shrubbery being installed. Fountain grass planted along the bank will stabilize and give a nice visual. Pictures will be taken.
- Elevations - Ms. Eby presented the Lake Killarney elevations, charted from February through April using telemetry data. Mr. Marcotte stated that the top of the collars is 81.6 ft.. The lake is currently below 81.6 ft. going into hurricane season.
- Alligator Awareness - Ms. Eby announced an awareness program using Mail Chimp to educate lake residents about the May alligator courting season and the laying of eggs in June.
- Maintenance and efforts are reported in the monthly data.
- Hurricane Preparedness - There is a prediction of a heavy hurricane season. Preparedness awareness was initiated by the department for all patrons within flood zones including Lake Killarney. Ms. Eby reviewed the Hurricane Preparedness 2024 slides and Flood Management guide. Weir board at Lake Bell is scheduled for removal May 30th. Lake elevations are currently low due to drought.

Ms. Eby commented on the work session. She suggested to choose and discuss each yellow highlighted priority at a future monthly meeting. This will allow time for research on each item listed as a priority. Ms. Eby asked the Board to confirm the priorities. Mr. Voecks stated that the Library and Event Center item was not highlighted as a priority. Mr. Ellison stated that the Library and Event Center are already in discussion and should be listed as a follow-up item.

Mr. Marcotte stated that he doesn't know the Board's involvement in the Library/Event Center parking project as it relates to Lake Killarney. Staff is presenting options to the City Manager and the City Commission and when a decision is made, a presentation to the board can then be initiated.

Mr. Voecks said he feels the city is making a decision without the Board's input. Mr. Ramdatt stated that the city is not approving parking plans yet, but is selecting a path forward to start the design process and will advise the board when the design is selected. Mr. Voecks and several board members agreed to highlight in yellow the Library/Event Center parking issue as a priority.

Ms. Wall asked for the Imperial Update and Accessing Money items to be priorities and highlighted in yellow. Ms. Wall agreed to write a letter regarding any updates with the annexations.

Ms. Eby explained the wish list for the Lake Killarney Board was a result of a work session from which a list of concerns was created. Items on the list were highlighted as priorities and will become future action items. Ms. Wall requested the wish list of priorities to be dated February 7, 2024 when the work session took place and to highlight New Retention Pond.

Mr. Dickerson suggested making the document of priorities an annual living document by creating a wish list, highlighting items in yellow that will be discussed throughout the year and act on items highlighted in red. Ms. Eby suggested the timing of the exercise should be May for the next year.

Mr. Ellison made a motion to add a work session annually with the preference month of May or June. Mr. Dickerson seconded. The motion carried unanimously with a 7-0 vote.

c. Stormwater Management

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

Mr. Ramdatt provided that after the three stormwater studies are finished in the summer, the Stormwater Department will look at the exfiltration system issues in the fall along with all the stormwater code requirements.

Mr. Marcotte showed the CIP update. Lake Killarney Drive improvements will be in May. Dredging from the lakes is done on an as-needed basis.

Ms. Wall would like to thank the staff and shared her appreciation for the visuals. Mr. Marcotte shared the Nicolet Pond infrastructure project schedule which showed the design phase as completed. Mr. Voecks asked for the design plans. Mr. Marcotte agreed to send the plans to Mr. Voecks. Mr. Marcotte continued with an aerial view of the pond. Mr. Voecks asked about the area behind the Publix. Mr. Marcotte advised it is outside the city limits.

Mr. Marcotte showed the Lake Bell Weir infrastructure project schedule and noted that Lake Bell Weir is exempt from permitting. The design for Lake Bell Weir is being finalized.

A slide of all active permits on the lake was presented by Ms. Eby.

Ms. Minear asked for the plans on the Killarney Drive replacement pipe. Mr. Ramdatt stated he will send the plans in a pdf. Ms. Wall suggested that the design plans for Killarney Dr. and Nicolet Pond are added as a summary item to the agenda and agenda packet for all board members to view.

Follow-Up Items:

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

Mr. Marcotte said the Killarney Dr. outfall condition on Ms. Minear's street is in phase 3. The BMP feasibility study will fall under a later phase of the project. Camera options will be purchased for the inspections of the outfalls.

Mr. Marcotte stated that when he provides the plans, he will provide the ordinance that shows the maintenance required on private exfiltration systems. Ms. Wall stated the exfiltration system maintenance were to be included on the current agenda and therefore should be added to the next agenda. Mr. Marcotte will add the year 2023-2024 to the Staff Update - Infrastructure Projects graph.

8. Board Comments

a. Discussion of Public Comments Received

Ms. Wall thanked the Staff and Board and stated her pleasure serving on the Board. Mr. Dickerson offered to the Board and Staff a handout that was published in the Orlando Sentinel in 1996 on how a septic tank works. Mr. Ellison thanked the city for the beautiful job done on the canal.

9. Upcoming Agenda Items

a. Upcoming Agenda Items

Ms. Eby stated the prioritization list will be reprioritized and meetings will be held annually to discuss Board priorities. The Grants, Imperial Dry Cleaning area, Library/Events Center and Nicolet pond items will be prioritized and highlighted yellow on the list.

b. Summary of Meeting Action Items

Ms. Eby stated the following will be provided or listed as follow-up items:

- Update on the project timeline
- Nicolet design and diagram to include Orange County pond
- Killarney Drive plans
- Current code on exfiltration system
- Exfiltration code number of existing with suggested flowchart for inspection maintenance
- The library/events center design if available
- The library/events exfiltration maintenance report
- Additional BMP photos
- Fairview Dock update

10. Adjournment

The meeting adjourned at 12:07 p.m.

Approved by the board on
/s/ Bahiyyah Layton, Board Coordinator



Lake Killarney Board

agenda item 6.a

item type

Non-Action Items

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

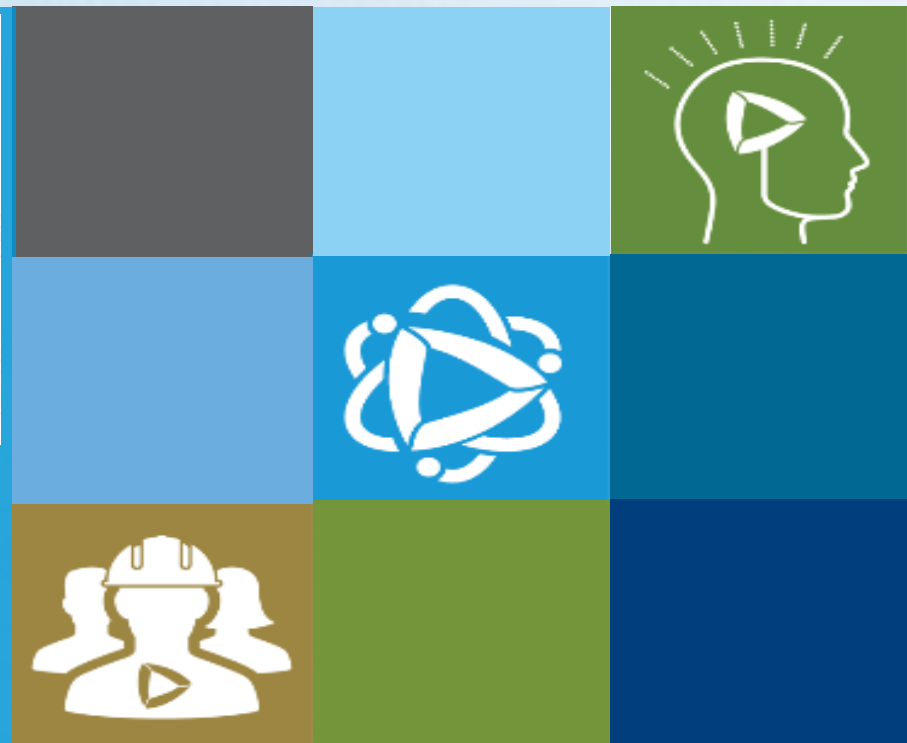
CRS Presentation

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

1. WP_CRS_20240522



COMMUNITY RATING SYSTEM PARTICIPATION ANALYSIS



Presentation Outline

- What is CRS?
- CRS Participation Process
- CRS Data Collection
- CRS Participation Analysis, Costs & Benefits
- Participating Neighboring Communities

What is CRS?

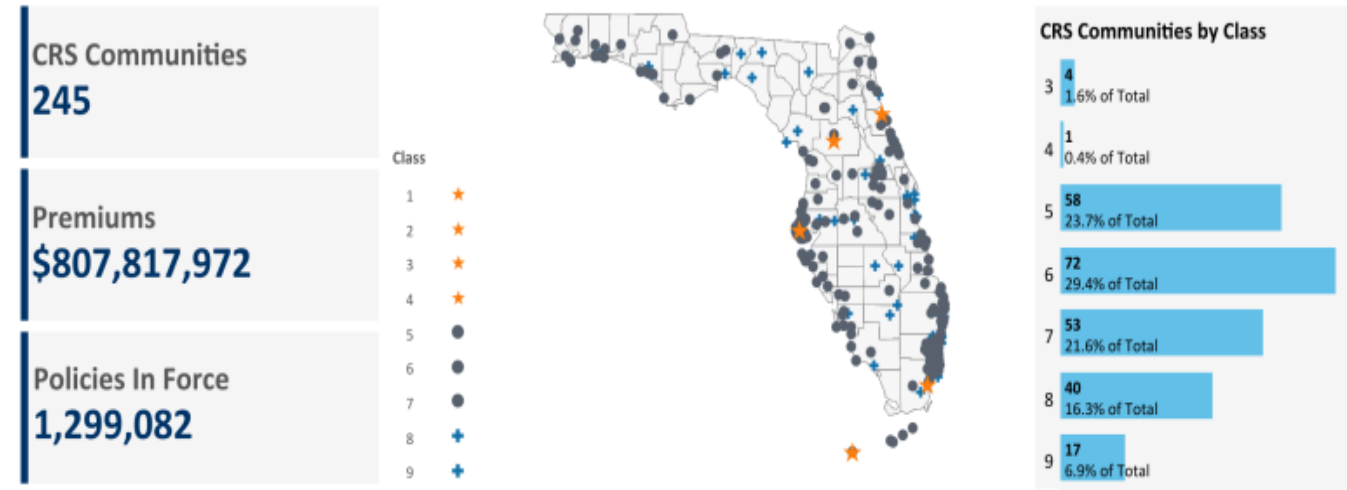
What is CRS?

- Program backed by FEMAs NFIP
- In Florida: 245 participating communities
- Benefits
- Premium Discounts participating communities
- Supports the NFIP
- Comprehensive floodplain management

The CRS in Florida

October 2023

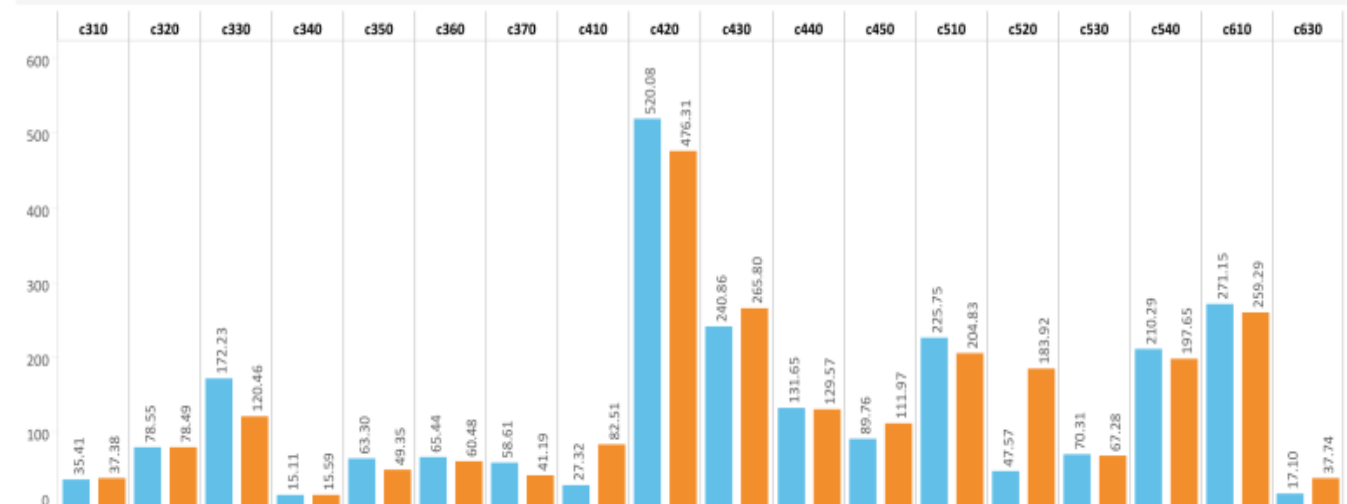
Insurance information pulled from FEMA's Community Information System



Florida vs. National

Average Credit

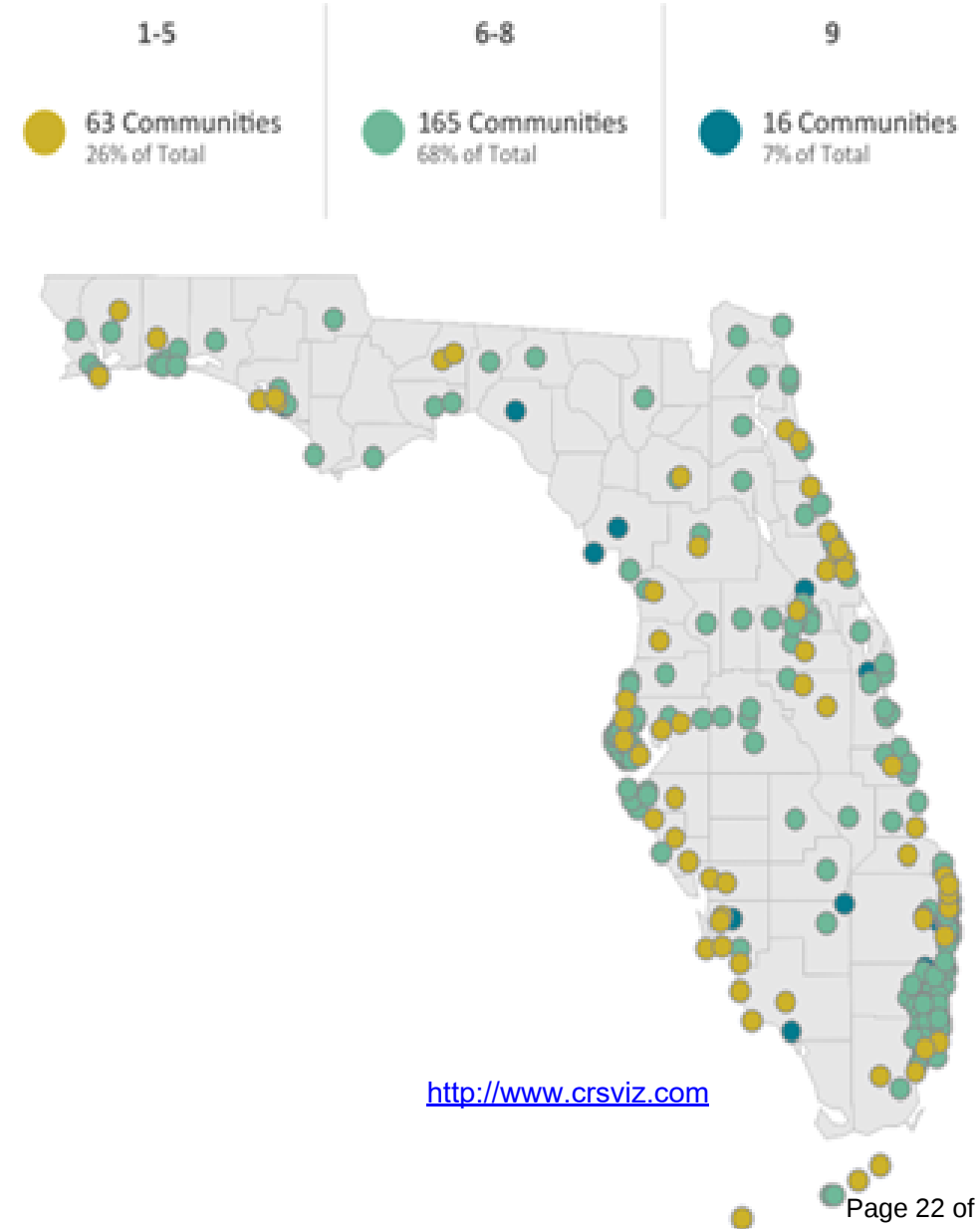
Hover for CRS Activity Glossary



What is CRS?



- Points assigned based on:
 - Relevant activities
 - Meeting metrics of the individual sub-activities
- Activity Examples:
 - Public Information
 - Mapping and Regulation
 - Flood Damages Reduction
- Participating communities' classification 1-10
- Lower classification results in a larger discount
- Per-Policy discounts 5-45% based on classification



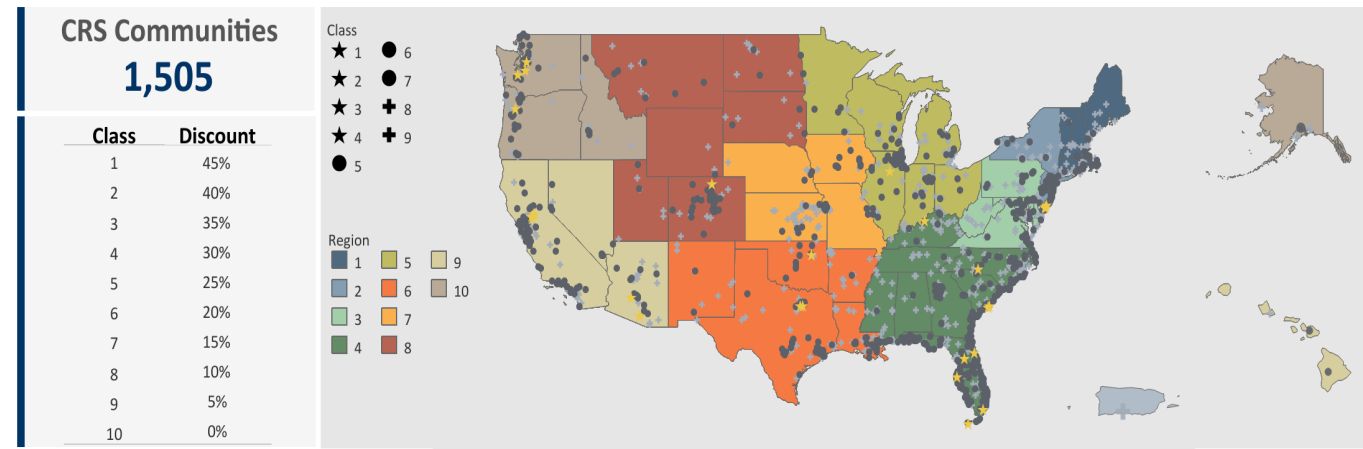
CRS Participation Process

CRS Participation Process – Initial Application

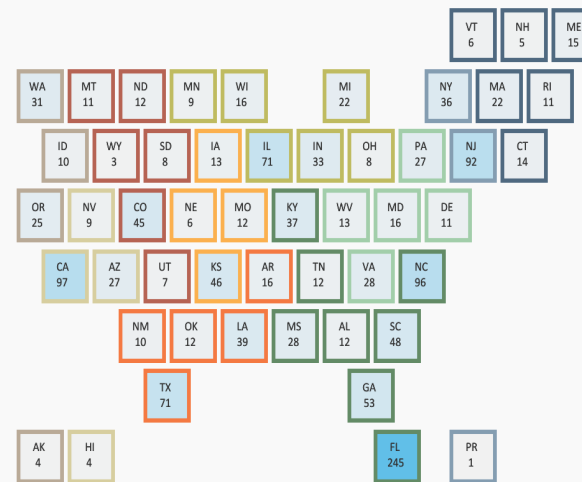
- **Initial Application/Startup**
 - Submitting a Letter of Interest
 - Community Verification Visit
- **Minimum Qualifications for Communities**
 - 500 verified credit points for Class 9
 - Part of the NFIP for at least 1 year
 - FEMA compliance – within 6 months of visit
 - Elevation Certificates for all new buildings/ substantial improvements in SFHA

Community Rating System (CRS) Participation

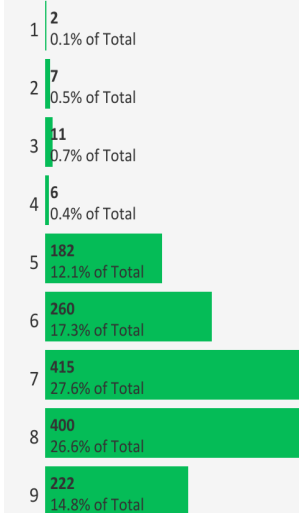
October 2023



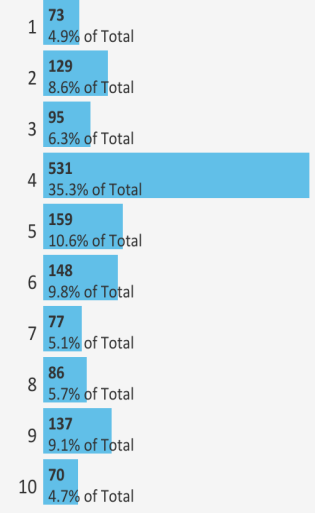
CRS Communities by State



CRS Communities by Class



CRS Communities by FEMA Region





- **Annual Recertification**
 - Confirm continued activity
 - Designated CRS Coordinator to manage CRS-related activities
 - Collaboration with Resource Specialist
 - Annual Recertification
 - Elevation Certs/ Floodproofing Certs, Engineered Opening Certs Reviews
- **Verification Cycle (3-5 years)**
 - Activities comply with CRS requirements
 - Flood protection projects
 - Drainage system maintenance
 - Environmental, and historic requirements
 - 5 years - class rating between 5 and 9
 - 3 years - class rating between 1 and 4

CRS Data Collection



- Data to establish current activities:
 - Estimating achievable points/ CRS score
 - Level of effort of the City
- Interviews with City staff
 - Building and Permitting
 - Communications
 - Emergency Management
 - Natural Resources & Sustainability
 - Public Works & Transportation
- Online Sources (FEMA, FDEM, SERT)

Special thanks to the staff who contributed to this effort: **Randy Knight, Michelle del Valle, Shannon Monahan, Charles Ramdatt, Don Marcotte, Gloria Eby, Gary Hiatt, Clarissa Howard, Anthony Braish**

Participation Analysis, Costs & Benefits



- Point Ranges were established through determining current activities
 - Interview responses
 - Estimated level of activity
 - Analysis of points achieved by other communities
 - Historic information and statistics
 - % of communities achieving points
 - % of points achieved by a community

Table 1: Winter Park Estimated Points by Activity (March 2024)

Activity Code	Activity Name	Maximum Credits Possible	Average Points Earned	Winter Park Estimated Point Range
300	Public Information Activities			
310	Elevation Certificates	116	36	35–40
320	Map Information Service	90	78	60–65
330	Outreach Projects	350	87	50–55
340	Hazard Disclosures	80	15	0
350	Flood Protection Information	125	48	30–35
360	Flood Protection Assistance	110	59	0–5
370	Flood Insurance Promotion	220	40	0
400	Mapping and Regulations			
410	Flood Hazard Mapping	850	78	40–45
420	Open Space Preservation	2,870	471	335–340
430	Higher Regulatory Standards	2,462	272	140–145
440	Flood Data Maintenance	222	127	85–90
450	Stormwater Management	755	110	105–110
500	Flood Damage Reduction Activities			
510	Flood Management Planning	762	197	180–185
520	Acquisition and Relocation	2,250	176	0
530	Flood Protection (Elevating and Floodproofing Buildings)	1,600	64	0
540	Drainage System Maintenance	470	203	280–285
600	Warning and Response			
610	Flood Warning and Response	365	266	95–100
620	Levees*	235	111	0
630	Dams*	160	38	0
	Total	14,092	2,476	1,435–1,495

*Levees and Dams do not apply to the City.

Flood Insurance Premium Benefits



- Points Range: 1,435 – 1,495
- Based on current City activities: CRS Classification Class 8
- 10% premium discount
- 388 NFIP Policies = \$230k Annual Premiums
 - \$23k in premium savings per year
 - Average annual savings per policy - \$59
- Increasing Future Savings
 - Flood insurance premiums are expected to increase (Risk Rating 2.0)
 - Total number of residents that choose to become insured is expected to increase

Table 2: CRS Credit Points, Classes, and Premium Discounts (FEMA: March 2024)

CRS Credit Points	CRS Class	CRS Discount (Premium Reduction)	Total Discount
4,500+	1	45%	\$103,500
4,000–4,499	2	40%	\$ 92,000
3,500–3,999	3	35%	\$ 80,500
3,000–3,499	4	30%	\$ 69,000
2,500–2,999	5	25%	\$ 57,500
2,000–2,499	6	20%	\$ 46,000
1,500–1,999	7	15%	\$ 34,500
1,000–1,499	8	10%	\$ 23,000
500–999	9	5%	\$ 11,500
0–499	10	0	-

These figures are based on the estimated points the City could receive upon participation in the program. Additional activities could improve this score. The potential for improvements was not evaluated.



- Initial verification or 5-year full verification, each
 - 325-375 hours of City staff time, -or-
 - \$55k -\$60k in consultant fees
 - Annualized costs: ~ \$12k - \$15k
- Annual recertification, preparation and submission
 - City's CRS Coordinator = 60-80 hours

Not a simple Cost analysis:

Over time, it is expected that the City's CRS Coordinator will increase efficiency and streamline certain tasks associated with their role, which should reduce effort. However, the City may also seek to improve its score by engaging in additional activities, resulting in additional time commitment and fees

Scope Breakdown (Initial & 5 Year Full Verification)

- Organize Documentation
- In-depth Interviews
- CRS Evaluation Report
- Prepare Documents
- Develop Internal Tracking
- Verification Visit
- Follow-up Documentation

Neighboring Communities

Participating Neighboring Communities



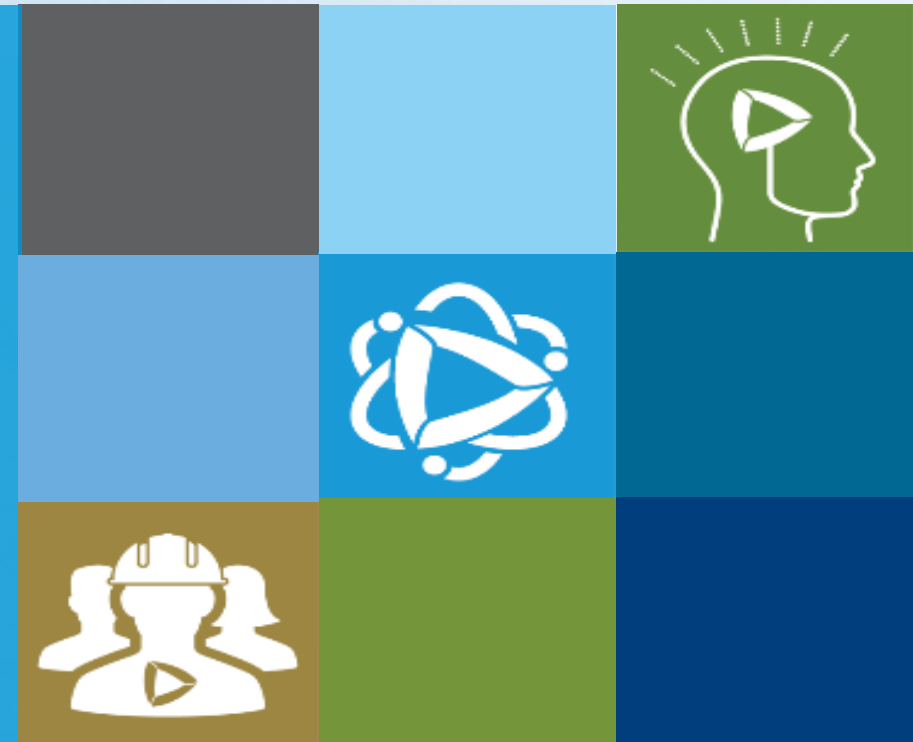
- Both larger and smaller communities participate
- Highest Rating: 5 (25% Discount)
 - Lake Mary & Orange County
- Lowest Rating: 8 (10% Discount)
 - Apopka & Casselberry
- Number of insurance policies
 - Lowest: 155 (Lake Mary)
 - Highest: 5,601 (Orange County)

Table 3: Neighboring Communities CRS Participation (FEMA: April 2022)

Community Name	Population	CRS Score	% Discount	CRS Entry Date	Total Number of Policies	Total Premium	Estimated Annual Savings
Orange County	1423000	5	25%	10/1/1991	5601	\$2,627,917	\$ 656,979
Orlando	309000	6	20%	10/1/1993	1665	\$841,306	\$ 168,261
Apopka	55000	8	10%	10/1/1993	159	\$90,412	\$ 9,041
Seminole County	470000	6	20%	10/1/1991	2668	\$1,436,488	\$ 287,298
Altamonte Springs	45000	7	15%	10/1/1994	399	\$186,992	\$ 28,049
Casselberry	29000	8	10%	10/1/2019	195	\$114,155	\$ 11,416
Lake Mary	17000	5	25%	10/1/2009	155	\$77,906	\$ 19,477
Sanford	61000	7	15%	10/1/2016	397	\$200,225	\$ 30,034
Winter Springs	38000	6	20%	10/1/1993	428	\$264,281	\$ 52,856



Questions?



Ahmed Hamed, PE, CFM – Senior Engineer
Ahmed.Hamed@geosyntec.com

12802 Tampa Oaks Blvd, Suite 151
Tampa, FL 33637
813.379.4385



Data Collected

- Elevation Certificates (EC)
- Letter of Map Amendments (LOMA)
- Flood Insurance Study (FIS)
- Stormwater Management Plans
- Past Capital Improvement Plans (CIP)
- FIRM Panels
- CIP 5-year plan
- Ordinance Information
- Building Codes & Standards
- Communication Information (Hurricane, Outreach, Education, etc.)
- Community Insurance Policy Information
- Geographic Data/ Maps
 - Structure Footprint
 - Green space
 - Special Flood Hazard Areas (SFHA)
 - Parcels
 - City Boundary
 - Topographic Data
- Hurricane Ian Damage Assessment
- Interim Adaptive Flood Management Guide



Lake Killarney Board

agenda item 7.a

item type

Staff Updates

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Orange County Update

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

None



Lake Killarney Board

agenda item 7.b

item type

Staff Updates

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Lakes Management

- Dock Violation Update
- Outfalls Treated
- Lake Elevation
- Maintenance & Efforts
- Water Quality

Follow-up Items:

- Workshop Re-Prioritize List

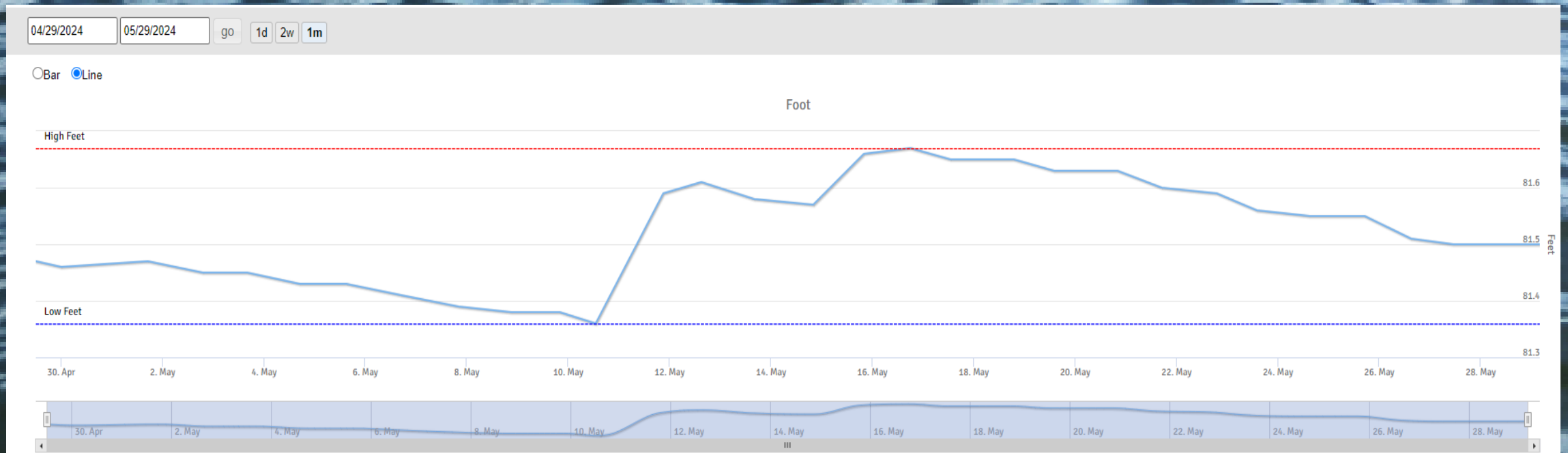
motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. Lake Update 06.2024

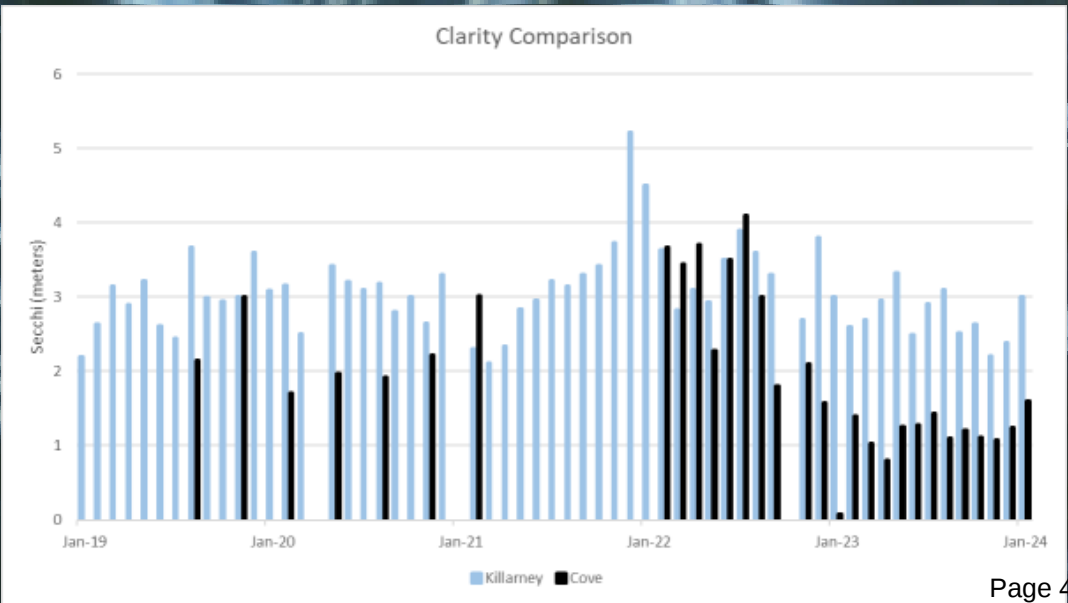
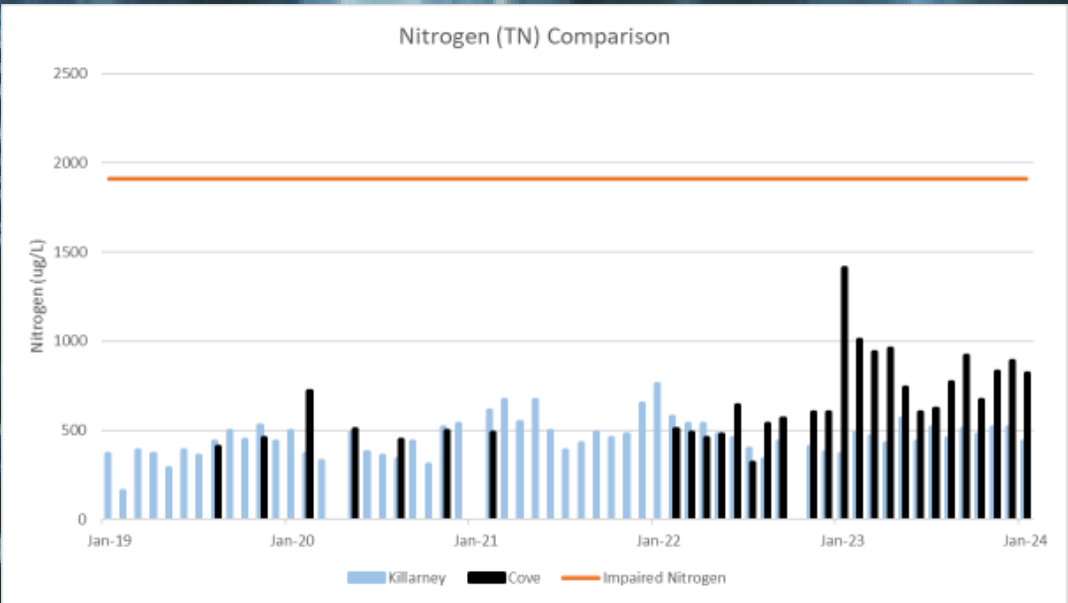
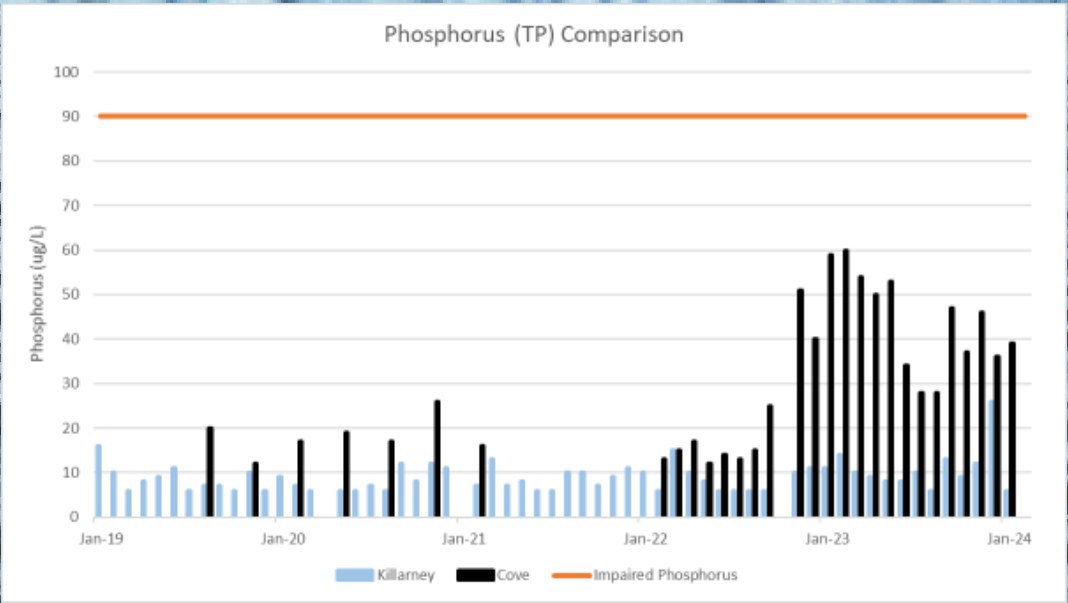
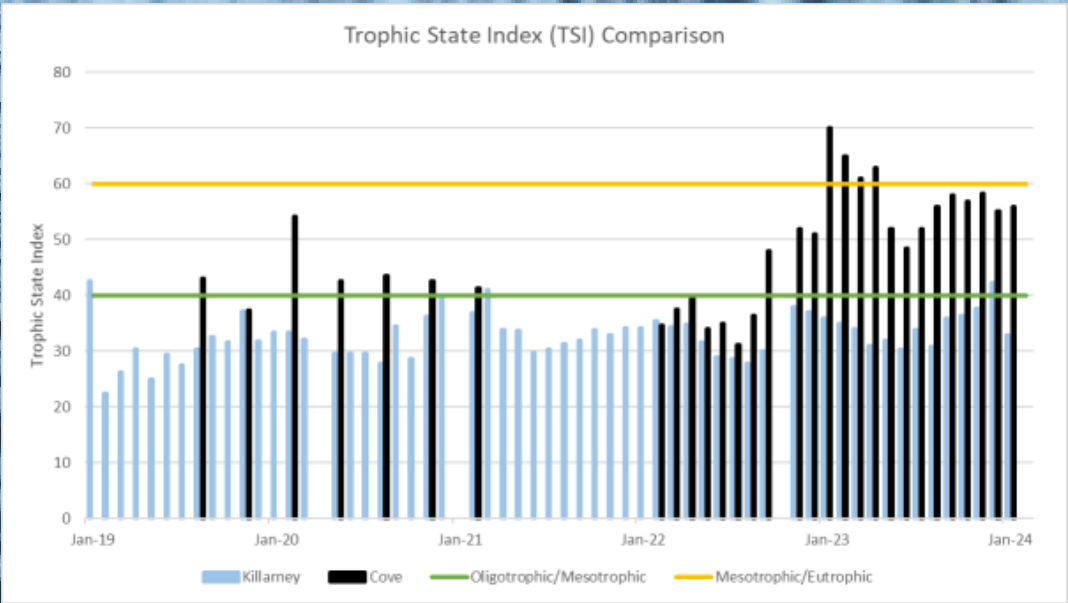
LAKE UPDATE:

- Dock Violation
- Outfalls Treated
- Elevations
- Maintenance and Efforts:
 - 105 gal Debris Removed
 - 20 gal Trash Removed
- Water Quality

Lake Elevation



Lake Killarney Water Quality



UPCOMING EVENTS:

- Upcoming Events:

- Lakes Event – Lake Bell June 8th
- Board Orientation June 13th
- Paddleboard Clean-up at Kraft Azalea June 15th
- Board Appreciation at WP Pines June 20th
- Lakes Event – Lakes Temple & Tuscany June 22nd
- Vermicomposting Class at WP Library June 27th

2024 Board Appreciation

you & a guest are invited to a

Tee-rific Time @ WP Pines

for our Annual Board Appreciation event

join us @ WP18

on the 19th hole

thursday June 20

follow-through from

5:30 to 7 pm.

hook some heavy hors d'oeuvres

pace yourself with custom cocktails

The Fairway Transfusion &

The 19th Hole Old Fashioned

groove to the sounds of ukulele's

pin some cool raffle swag

Winter Park Pines Golf Club
@ 950 S. Ranger Boulevard

rsvp for you & a bogey by June 13 to jmiller@cityofwinterpark.org



Lake Killarney Board

agenda item 7.c

item type

Staff Updates

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Past & Upcoming Events:

- Lakes Event - 5/11 9am @ Lakes Knowles & Wilbar
- Lakes Event - 5/18 9am @ Lake Chelton
- Lakes Event - 6/8 9am @ Lake Bell
- Board Orientation - 6/13 6pm @ Commission Chambers
- Paddleboard Clean-up - 6/15 9am @ Kraft Azalea
- Board Appreciation - 6/20 5:30pm @ WP Pines
- Lakes Event - 6/22 9am @ Lakes Temple & Tuscany
- Vermicomposting Class - 6/27th 6pm @ WP Library

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

None



Lake Killarney Board

agenda item 7.d

item type

Staff Updates

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Stormwater Management

- CIP Update
- Nicolet Pond, Killarney Dr. Pipe Replacement, & Lake Bell Weir Project Timeline
- Nicolet Design & Diagram
- Killarney Dr. Plans
- Lake Front Construction Updates
- Exfiltration System Current Code
- Full List of Private Exfiltration Systems
- Library /Events Exfiltration Maintenance Report

Follow-up Items:

- BMP Feasibility Study for Killarney Dr. Outfall Consolidation
- BMP Photos
- Outfall Condition Update
- Library /Event Center Additional Parking Design (when available)
- Exfiltration System flowchart for Maintenance & Inspection

motion | recommendation**background****alternatives | other considerations**

fiscal impact

attachments

1. SW Update 6.24 Lake Killarney Board

Stormwater Staff Update

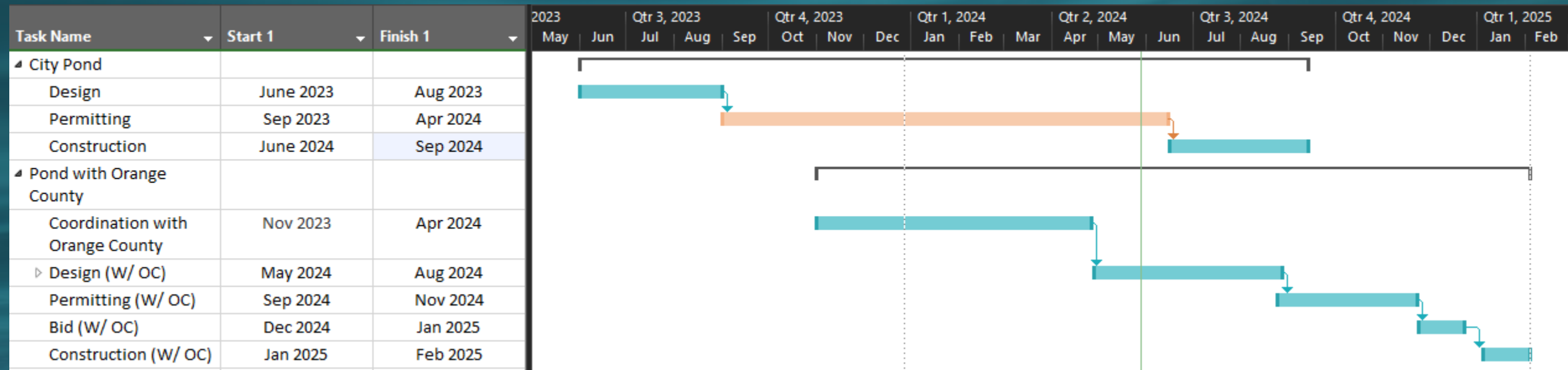
Lake Killarney Board Stormwater CIP – Fiscal Year 2024

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	\$57,164	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 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 40% complete, survey is now complete. Phase 1 permit application with SJRWMD has been submitted. Waiting on reposnse from District.
				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. Piping installation started May 2024.
				4) <u>Pipe Repair at Summer Way</u> - Corrugated metal pipe replacement. COMPLETE.
				5) <u>Killarney Dr Outfall & Street Repairs Phase 1</u> - New outfall to replace two exisitng outfalls. Permit with SJRWMD to be submitted April 2024. Anticipated Construction August 2024.
565203	Lk. Bell Weir Outfall Improvements -	2009	\$69,223	Repairs may be required on the Lake Bell outfall weir. Preliminary concept and geotechnical evaluation are complete. Final plans and permitting are underway.
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. Phase I permit application has been submitted to SJRWMD.
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	\$199,580	Commission approved \$200,000 in the City's FY'23 budget. General permit application and RAI has been submitted.
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		\$1,559,361.97	BALANCE TOTAL

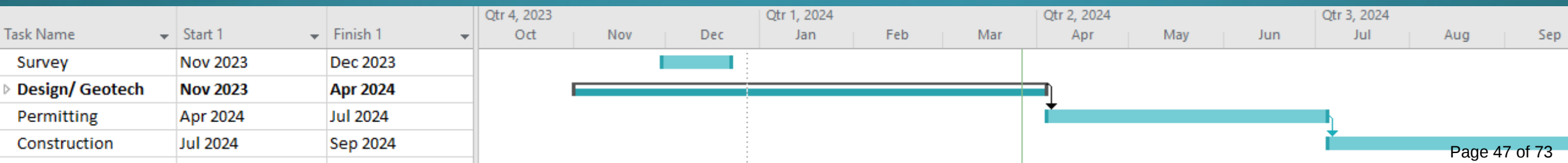
Staff Update - Infrastructure Projects

Lake Killarney Board

Nicolet Pond – Estimated Schedule



Killarney Dr Pipe Replacement – Estimated Schedule



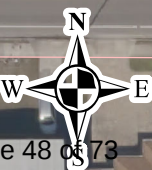


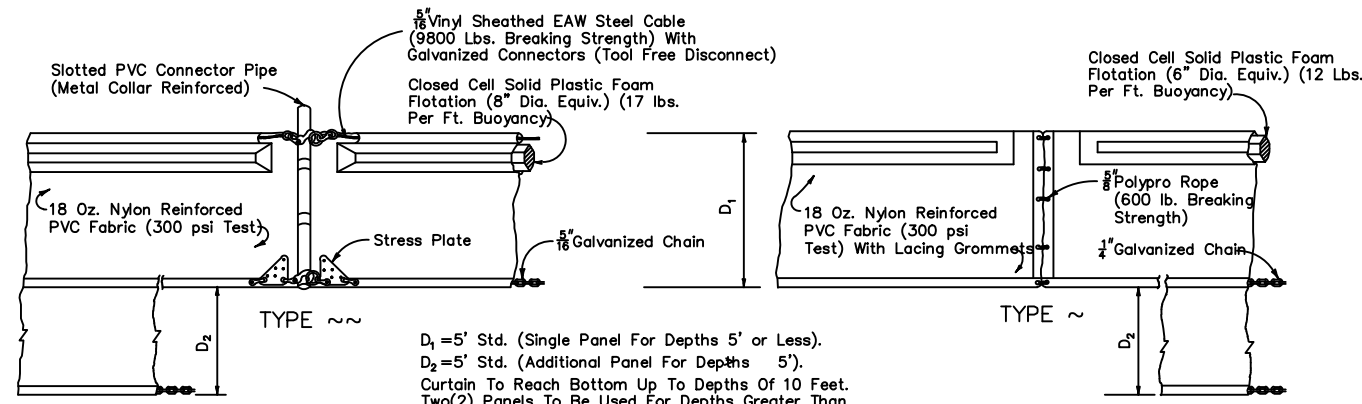
Future City Pond

Orange County Pond

Legend

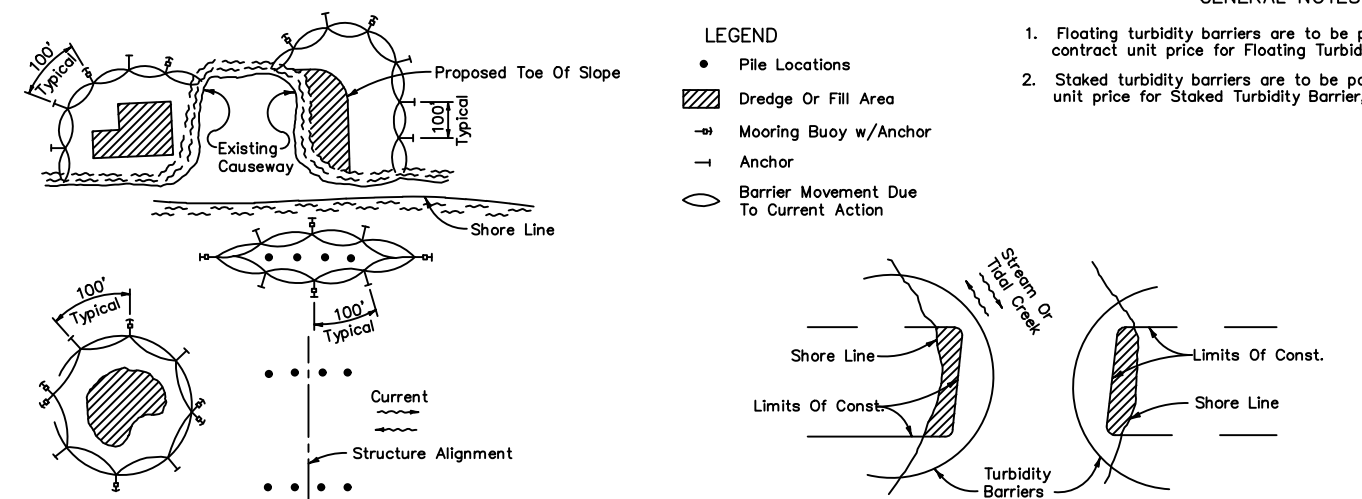
 Property Boundary





NOTICE: COMPONENTS OF TYPES ~ AND ~ MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY IMPROVEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES ~ AND ~ SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



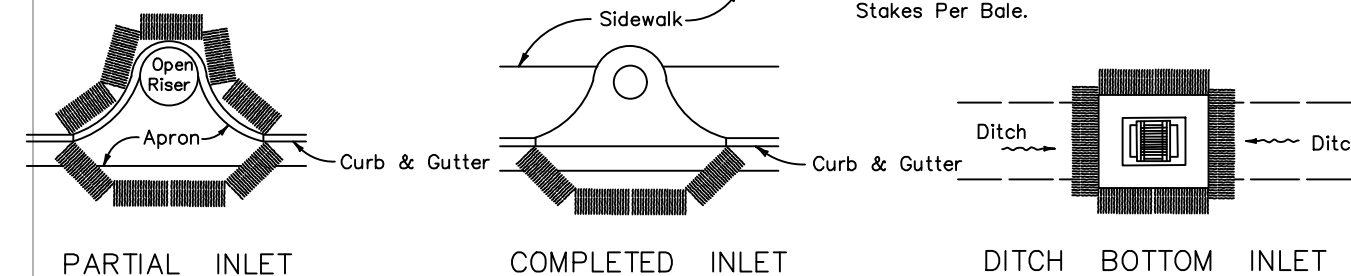
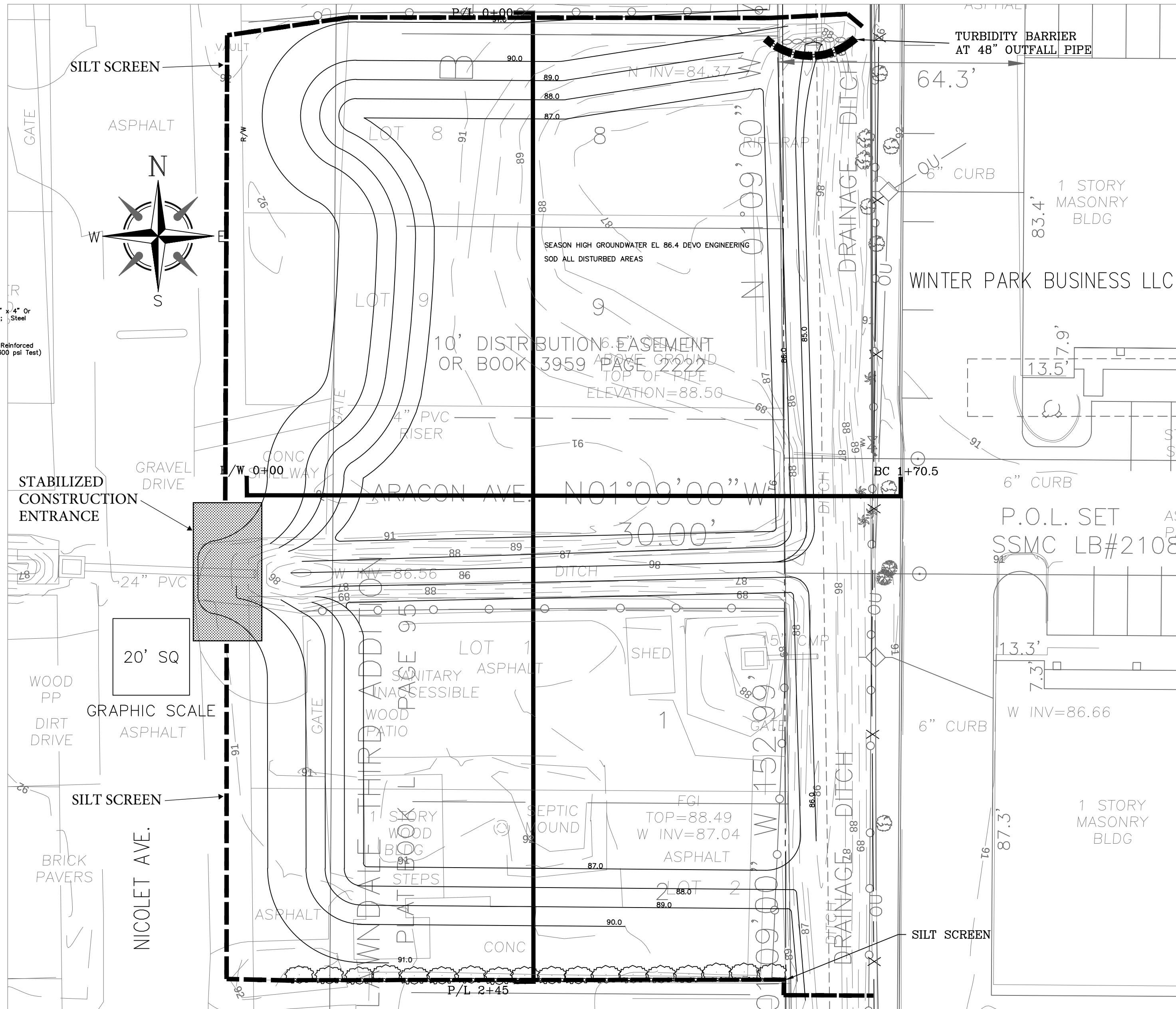
- NOTES:
- Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 - Number and spacing of anchors dependent on current velocities.
 - Deployment of barrier around pile locations may vary to accommodate construction operations.
 - Navigation may require segmenting barrier during construction operations.
 - For additional information see Section 104 of the Standard Specifications.

Note: Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractor's option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Piles in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

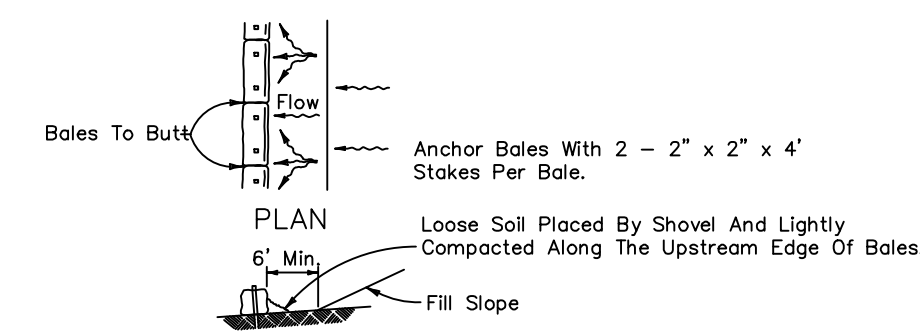
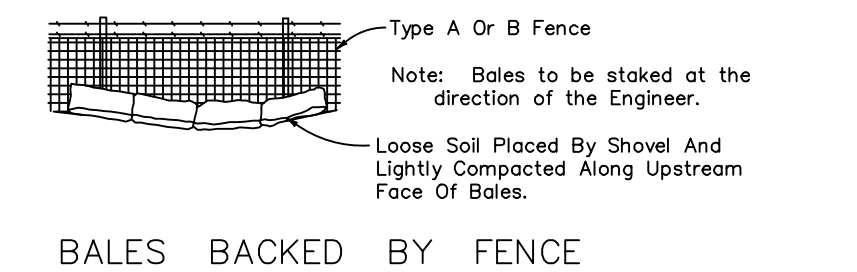
TURBIDITY BARRIER APPLICATIONS



- GENERAL NOTES
- Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
 - Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.



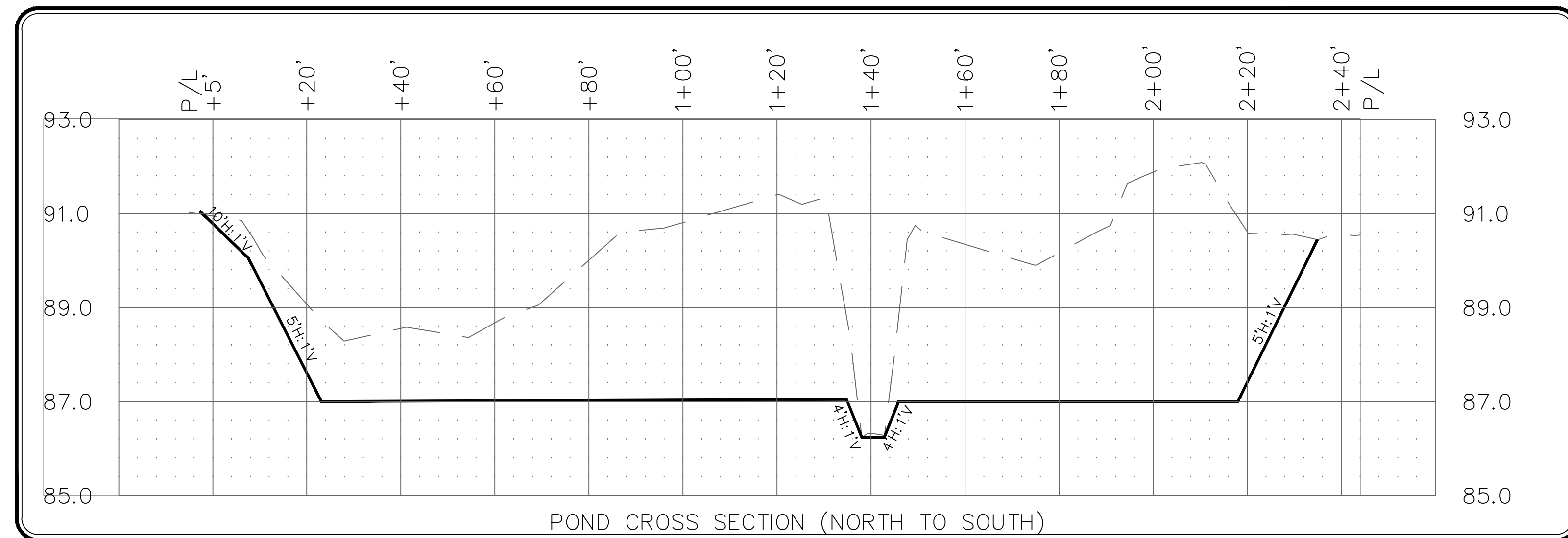
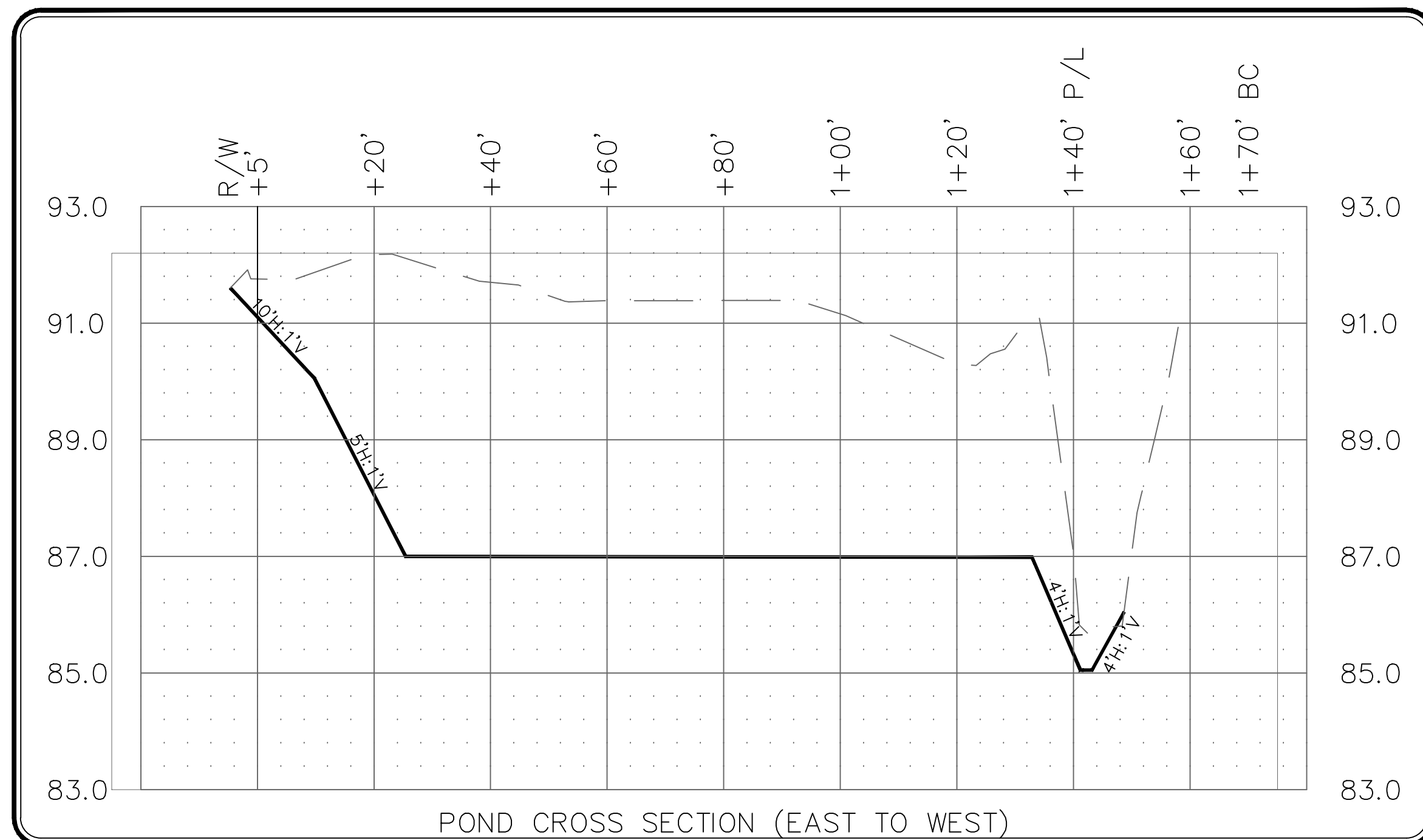
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

Quantities:
Cut 1775 CY
Strippings 850 CY
Sod 5000 SY



PROJECT NUMBER	DATE	4/15/24
AS SHOWN	SHEET NO.	1 of 1

NICOLET AVE. POND FOR FLOOD RELIEF STORAGE

NICOLET AVE.
City of Winter Park
Winter Park, Florida

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
BLM	BLM	DJM	DJM

City of Winter Park
401 Park Avenue South
Winter Park, Florida 32789
Telephone (407) 823-3242

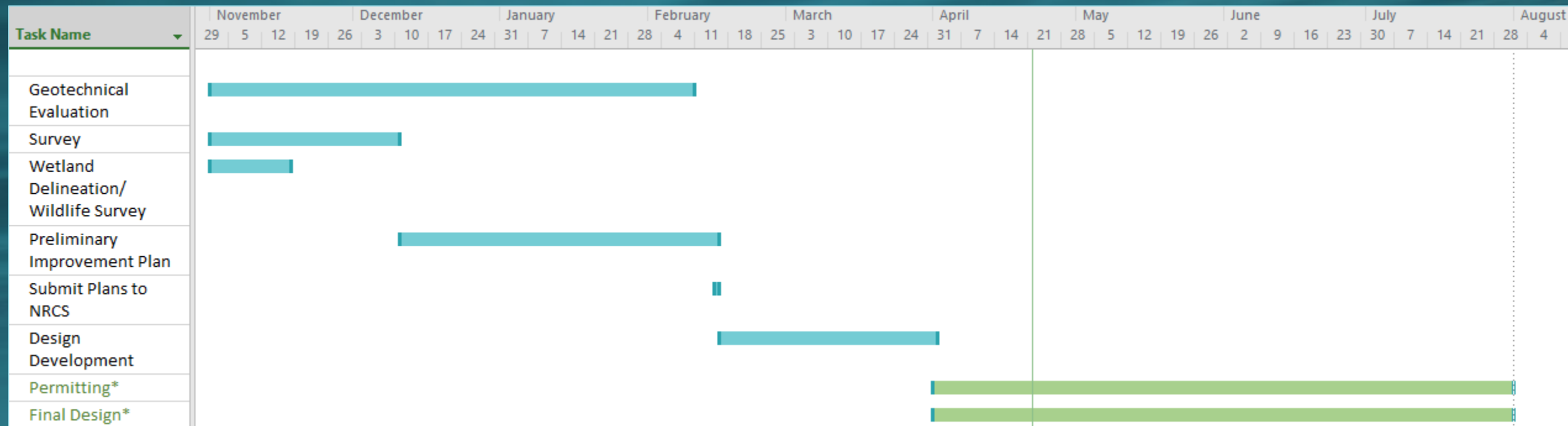
DATE	REVISIONS	REVISOR	CHKD. BY

FILE NAME	FILE SIZE	FILE CODE
OS ARCH D	FILE.CTB	

Staff Update - Infrastructure Projects

Lake Killarney Board

Lake Bell Weir Repair – Estimated Schedule



*These are estimated timeframes

Stormwater Staff Update

Lake Killarney Board



Private Exfiltration Systems Inventory

Subject Address	AGREEMENT/ CONSTRUCTION
1100 South Orlando Ave	2/14/2020
650 N New York Ave	2/4/2019
420 S Orlando Ave	12/14/20018
950 Lincoln Cir.	7/31/2018
1566 W Fairbanks	8/3/2018
823 Pennsylvania Ave	6/18/2018
801 Orange Ave	5/3/2018
1903 Aloma Ave.	4/2/2018
531 Morse Blvd	4/2/2018
345 Carolina Ave	12/15/2017
2111 Via Tuscany	2/26/2018
18-37	
925 S. Orlando Ave	2/26/2018
450 W Fairbanks	11/17/2017
751 Minnesota	1/24/2018
200 N. Lakemont Ave	11/30/2016
633 & 651 N Park Ave. Park Place	4/22/2016
1500 S. Orlando Ave.	6/2/2016
Ctr. for Reproductive Medicine	
215/213 W. Comstock Ave.	8/31/2016
501 N. Orlando Ave.	8/24/2016
Winter Park Center	
200 N. Lakemont Ave	11/24/2015
300 N. Pennsylvania Av.	11/24/2015
Canton Avenue Cottages	5/3/2018
(See attached)-831 W. Canton	
343 Glenridge Way	4/14/2015
421 & 403 W. Morse Blvd.	08/07/20015
110 S. Orlando Ave.	8/12/2015
142 E. Swoope Ave.	10/14/2015
220 W. Fairbanks Ave.	2/12/2015
1000/1030/ 1040/ 1050 N. Orlando Ave.	2/3/2015
1160 Galloway Dr	
1280 Orange Ave.	4/10/2015
600 Seminole Drive	3/11/2014
Lyman Avenue Villas I	5/23/2014

250 W. Lyman Ave.	
2519 Aloma Ave.	6/19/2014
616 Seminole Drive	11/12/2014
1003 & 1009 S. Pennsylvania Av.	11/19/2014
1003 Pennsylvania #15-431	
1009 Pennsylvania #15-434	
100 Perth Lane	9/26/2013
aka 100 Edinburgh Dr.	
912 W. Fairbanks Av.	10/10/2013
1245 Orange Ave.	10/11/2013
WP Surgery	
901 N. Orlando Ave.	10/18/2013
276 S. Orlando Ave.	7/18/2012
1302 W. Fairbanks	9/24/2012
140 N. Orlando Ave.	11/14/2012
810 N. Orlando Ave.	4/29/2013
482 Lakewood Drive	3/18/2011
1111 S. Lakemont Av.	8/25/2011
aka 1085 S. Lakemont Av	
Winter Park Towers	
699 N. Orlando Ave. Fifth Third Bank	11/25/2013
200 E. Canton Ave	7/26/2012
434 W. Swoope Ave.	6/12/2012
271 N. Pennsylvania Ave.	6/4/2008
248 Loch & 158 Loch Lomond	7/23/2009
1411 Via Tuscany	7/24/2009
2145 Aloma Ave. (2295)	1/29/2010
Aloma Shopping Ctr.	
1693 Lee Rd.	3/15/2010
National Pain Institute	
520 W. Swoope Ave.	9/17/2007
(Beau Soleil Condo.)	
253 E. Webster	10/31/2007
550 S. Orlando Ave.	11/12/2007
2660 W. Fairbanks	12/21/2007
111 & 131 N. ORLANDO AVE	7/23/2013
145 LINCOLN AVE	2/14/2013
199 E. WELBOURNE AVE	9/15/2020

200 W. FAIRBANKS AVE	9/12/2016
300 E. NEW ENGLAND AVE	10/22/2013
301 W. COMSTOCK AVE	8/3/2020
388 E. LYMAN AVE	4/27/2012
409 LONGHOLM DR.	1/27/2014
415 S. ORLANDO AVE	2/17/2020
430 N. ORLANDO AVE	12/22/2021
472-510 W. SWOOPE & 435 W. CANTON	3/9/2020
526 N. PARK AVE	4/30/2001
610 N. ORLANDO AVE	4/21/2020
625 S. ORLANDO AVE	9/14/2020
664N. NEW YORK AVE	4/10/2020
796 W. SWOOPE AVE	11/1/2015
818 S. ORLANDO AVE	3/25/2021
900 & 950 N. ORLANDO AVE	5/8/2023
901 & 911 N. ORLANDO AVE	1/24/2008
952 W. FAIRBANKS AVE	3/3/2015
976B ORANGE AVE	8/28/2003
1000 HOLT AVE	9/29/2017
1019 W. FAIRBANKS AVE	5/6/2020
1111 S. ORLANDO AVE	10/19/2016
1111 W. FAIRBANKS AVE	9/21/2018
1428 GAY RD.	9/23/2019
1490 W. FAIRBANKS AVE	5/13/2021
1655 W. FAIRBANKS AVE	8/8/2017
2010 MIZELL AVE	5/16/2016
2600 TEMPLE DR.	8/30/2022
2615 LEE RD.	6/2/2020

Sec. 58-168. - Underground stormwater system standards.

- (a) *Generally.* Underground stormwater seepage systems may be permitted in all zoning districts upon city staff approval to accomplish stormwater retention and percolation requirements provided those systems are designed for the prevention of clogging by fine material and for ease of clean with convention sewer cleaning equipment.
- (b) *Design criteria.*
- (1) Underground stormwater treatment systems shall be designed by a licensed professional engineer.
 - (2) Underground stormwater treatment systems shall be designed so as to accept a retention volume calculated for two inches of runoff from all contributing impervious areas.
 - (3) A system overflow outfall shall be required.
 - (4) The bottom of the stormwater treatment system shall be constructed a minimum of one foot above the estimated high ground elevation. The estimated high groundwater elevation and a modeled recovery analysis shall be performed by a licensed geotechnical engineer.
 - (5) Filtration media shall consist of a gravel or river rock to be approved by city staff. A limestone based or crushed concrete media is not permitted.
 - (6) A pretreatment structure shall be incorporated to remove all debris and sedimentation from the stormwater runoff prior to entering the ex-filtration system.
 - (7) Proper inspection and maintenance access ports/manholes shall be installed on all structures and ex-filtration termination points.
 - (8) The design shall meet such site or project-specific additional criteria as the director of public works may require.
 - (9) The design shall not allow or permit the grade of the site to be elevated above two feet from the existing grade of the adjoining properties or adjoining right-of-ways.
- (c) *Inspection and maintenance criteria.*
- (1) Upon initial construction completion, an "as-built" drawing confirming that the stormwater treatment system was constructed according to the city approved drawings shall be signed and sealed by the engineer of record and submitted to the city public works department.
 - (2) Inspection, maintenance, and testing procedures (including report forms) shall be provided by the engineer of record and submitted to the city for approval, and approved by the city, before a permit is issued.
 - (3) Monthly inspections shall be performed by responsible party and findings logged and/or recorded. Monthly inspection logs shall be submitted annually to the city public works department.
 - (4)

Routine maintenance and cleaning operations shall be performed and logged and/or recorded.

Maintenance and cleaning logs shall be submitted annually to the city public works department.

- (5) A volume test shall be performed on the underground stormwater treatment system and an engineer certified volume test report, satisfactory to the city, submitted every three years to the city public works department.
- (6) As a means of ensuring the future maintenance, repair, or replacement of the underground stormwater treatment system, the owner of the property shall be required to enter into an agreement suitable for recording in the public records, which shall run with the land and bind future owners of the property, reflecting the owner's responsibility to perform future maintenance, repairs, or replacement, as deemed reasonably necessary by the city, and in addition the owner's responsibility to pay for such future maintenance, repairs, or replacement, as deemed reasonably necessary by the city, regardless of by whom the future maintenance, repairs, or replacement is performed. The city shall have the right, but not the obligation, to perform or have performed future maintenance, repairs, or replacement, as deemed reasonably necessary by the city, and the property owner shall be responsible for the costs of such future maintenance, repairs, or replacement, the recorded agreement referred to herein shall reflect this obligation of the property owner.

(Ord. No. 2683-06, § 1, 9-11-06; Ord. No. 2737-08, § 1, 4-26-08)

Retrofit Maintenance Sheet

Site Name or Location: LEC Exfiltration		Site Type/Work (check one)	
		Baffle Box	
Date: 12/14/23		CDS	
		Exfiltration	x
Workers: CM, JF		Inlet Basket	
		Sump/Sediment Trap	
Time Spent on Site/Job: 1 hr		Other:	

**For all types, use inspection procedure or device dimensions to estimate the volume of debris accumulated.
For all devices except inlet baskets, empty when the volume accumulated exceeds half the available storage.**

Cleaning Required? (Y/N) N	Cleaning Performed this visit? (Y/N) N
---	---

For Baffle Box, CDS, Sump/Sediment Trap or "Other" categories, fill out the following information.

Volume of debris in sump/trap (cu yds):	Volume removed this event (cu. yds.)
---	--------------------------------------

For exfiltration systems, perform/complete the following for the sediment sump/trap portion of the system.

Volume of debris in system (cu yds): 0	Volume removed this event (cu. yds.) 0
---	---

Exfiltration pipes/vaults inspected? Y/N	Y	If yes, complete the following.
--	---	---------------------------------

Volume of debris in pipe/vault (cu yds): 0	Volume removed this event (cu. yds.) 0
---	---

For inlet baskets perform complete the following:

Location (nearest address or intersection):	Volume Removed (gal.)
---	-----------------------

Comments (list any problems or evidence of illicit discharge and report to supervisor):

Illicit Discharge Proactive Inspection Report

For all locations, fill out sections A and B.

Fill out sections C and/or D where prompted.

Section A.	Check one:	Yes	No
-------------------	-------------------	------------	-----------

Is there detectable flow present?

	x
--	---

If no, go on to section B.

If yes, is there turbidity, discoloration, a visible sheen or chemical odor?

--	--

If yes, describe and complete Section D.

Section B.		Check one:	Yes	No
Is there standing water present?				x
If no, go on to section C.				
If yes, is there turbidity, discoloration, a visible sheen or chemical odor?				
If yes, describe and complete Section D.				
Section C.		Check one:	Yes	No
If dry, is there evidence of dumping or any chemical odor?				x
If yes, describe and complete Section D.				
Section D.		Check one:	Yes	No
Is the source of the discharge evident?				
If yes, describe:				
If no, search upstream streets and manholes for evidence of the source.				
Was the source of the discharge discovered upstream?				
If yes, describe:				
If no, what was the most upstream location that evidence of an illicit discharge was found?				
When a source is found, stop the discharge and/or notify the responsible party when possible. Do not attempt Report all potential illicit discharges to the Division Chief or Asst. Division Chief immediately so that an illicit				

Inspection Ports for Exfiltration Locations and Depths

15"
40"

15"
24"

24"
15"

25"
17"

33.5"
15"



Table 1-2. Minimum inspection frequencies for structural controls

Type of Control	Minimum Frequency	Preferred Frequency
Lakes		
Stormwater treatment pond (wet)	Annually	Monthly
Stormwater treatment pond (dry)	Annually	Quarterly
Weir	Annually	Monthly
Alum injection stations	Monthly*	Every 2 weeks
Exfiltration/French drain	Every 18 months	Monthly
Channel control structure	Every 18 months	Monthly
Channel/canal/canal bank	Every 18 months	Monthly
Pollution control box	Every 18 months	Monthly
Ditch/swale	Every 18 months	Monthly
Pipes/culverts	10%/Year	30%/Year
Major Outfalls	Annually	Annually
Streets		
Inlet/catch basin/grate/pipes	10%/Year	30%/Year

MONTH/YR: 03/2024							
Facility/ Types	Quad	Crew #	Time hrs.	Date	Est. Vol. Cubic Yards	Sched. Cleaning Yes/No	DATE CLEANED
Baffle Boxes (1st gen.)							
1539 (Glencoe)	C	2	1				
2400 Venetian Way (Moss)	B	2	1	2/27/2024	1.0 cy.	Yes	3/19/2024
1033 (Via Tuscany Oaks)	B	2	1	2/27/2024	1.0 cy.	Yes	3/19/2024
2601 (Cochise Tr.)	B	2	1	2/27/2024	2.0 cy.	Yes	3/19/2024
201 Osceola Crt.	A	2	1				
131 (Chelton Cir.)	C	2	1	3/6/2024	2.0 cy.	Yes	3/6/2024
2010 (Chelton Cir.)	C	2	1	3/6/2024	2.0 cy.	Yes	3/6/2024
2030 (Chelton Cir.)	C	2	1	3/6/2024	2.0 cy.	Yes	3/6/2024
271 (Chelton Cir.)	C	2	1	3/6/2024	2.0 cy.	Yes	3/6/2024
1390 Garden Dr. (Mead Ent.)	C	2	1	3/5/2024	2.0 cy.	Yes	3/19/2024
Mead Clay Pit	C	2	1				
1001 (Osceola Ave.)	D	3	3		3.0 dy.		
1211 (Melrose Ave.)	C	3	1	2/13/2024	2.0 cy.	Yes	3/19/2024
Pennsylvania Bridge/Fairfax	C	3	1	2/15/2024	3.0 cy.	Yes	3/20/2024
1218 Alabama (Mayfield)	B	3	1				
Kiwi Cir. (Webster)	A	4	4				
Fairfax Avenue/Penn. Ave.	C	4	1	2/15/2024	3.0 cy.	Yes	
937 Lakeview Dr.	C	4	1	2/29/2024	3.0 cy.	Yes	
Lakeview Dr./Oxford	C	4	1	2/29/2024	2.0 cy.	Yes	
950 (Palmer Ave.)	B	4	1	2/15/2024	2.0 cy.	Yes	
Parkland Dr. (2614)		2		3/19/2024	2.0 cy.	Yes	3/19/2024
Baffle Boxes (2nd gen.)							DATE CLEANED
Canton Ave/Interlachen	A	3	2	2/27/2024	4.0 cy.	Yes	
160 (Alexander Pl.)	A	3	4	3/5/2024	5.0 cy.	Yes	3/5/2024

801(Elizabeth Drive (2nd Ge	B	3	4	2/14/2024	8.0 cy.	Yes	
Balmoral Road #1 (725)	D	3	3	3/19/2024	2.0 cy.	Yes	3/19/2024
Balmoral Road #2 (665)	D	3	2	2/15/2024	5.0 cy.	Yes	
1357 (Mizell Avenue)	D	5	5				
Morse North (big)*	A	4	3				
Morse South (small)*	A	4	3				
* Area needs to be blocked off with cones the day before to keep cars from parking in the way							
CDS Units							DATE CLEANED
1060 (McKean Circle)	B	2	1	3/6/2024	2.0 cy.	Yes	3/6/2024
1310 (Green Cove Rd.)	A	2	1	2/28/2024	2.0 cy.	Yes	
1402 (Green Cove Rd.)	A	2	1	2/28/2024	2.0 cy.	Yes	
1411 Elizabeth Drive	B	2	1	2/14/2024	3.0 cy.	Yes	
400 (Lakewood/Trisman)	D	2	2	3/6/2024	3.0 cy.	Yes	3/6/2024
Police Station	A	2	2	3/20/2024	1.0 cy.	Yes	3/20/2024
860 (Via Lombardi)	B	3	4	3/5/2024	4.0 cy.	Yes	3/5/2024
363 Lake Sue Drive	D	3	2	2/13/2024	3.0 cy.	Yes	
Sylvan/Bryan	B	3	3	2/14/2024	7.0 cy.	Yes	
965 Lakeview (Antonette)	C	4	1	2/29/2024	3.0 cy.	Yes	
1190 N.Park Ave. (Clayton)	A	4	2	2/15/2024	5.0 cy.	Yes	
150 W. Fawsett	C	3	2	2/28/2024	3.0 cy.	Yes	
Howard Drive	D	3	3	2/29/2024	2.0 cy.	Yes	3/26/2024
Aloma/Sylvan	C	3	2	3/19/2024	2.0 cy.	Yes	3/19/2024
1950 Lee Road	A	3					
1350 College Pt.	A	3	2				
Exfiltration Systems							DATE CLEANED

Lyman Avenue/City Hall	A	2	2				
Welcome Center	A	2	1				
Casa Feliz	A	2	1				
Train Station	A	2	1	3/20/2024	2.0 cy.	Yes	3/20/2024
1226 Raintree Pl. (Park North)	A	2	1				
414 Park North Ct.	A	2	1				
312 Raintree Ct. (Park North)	A	2	1				
767 French Avenue	C	3	1				
467 Lakewood/Trisman	D	3	2				
333 Trisman Terrace	D	3	2				
Penn. Parking Lot/New England	A	3	2				
Banchory Rd.	D	3	2				
761 Old England (WP9 Golf)	D	3	2				
980 Via Lugano	B	3	3	2/13/2024	2.0 cy.	Yes	
301 Beloit Ave. (N. New York)	A	4	4	3/18/2024	4.0 cy.	Yes	3/18/2024
Sunnyside Drive	A	4	2				
N. Edinburgh Dr.	D	3	1				
180 W Lyman (Parking lot)	A	2	1				
N. Park Avenue*	A	4	5				
* Need to arrange road closure at least two weeks ahead of cleaning - schedule with Butch & Streets							
Miscellaneous Retrofits							DATE CLEANED
2225 Via Tuscany (Sump)	B	2	1	3/19/2024	1.0 cy.	Yes	3/19/2024
2160 Park Ave. Drainwell Sur	A	2	2	3/5/2024	2.0 cy.	Yes	3/5/2024
151 Wellbourne Ave. Sumps	A	2	1				
605 Lake Front Blvd. Sump	A	2	1				
1041 Tuscany Place Inlet Bas	B	2	1				

1018 Turner-1061 (Lk.Bell Dr	A	2	1				
1551 Laurel Road Sump Inlet	D	3	2				
2080 Lk. Dr.	D	2	1	2/29/2024	2.0 cy.	Yes	
Phelps/Bryan Sump	B	3	1	3/19/2024	1.0 cy.	Yes	3/19/2024
Phelps Avenue Sump	D	3	1				
Beachview Weir/Sump	A	3	1				
1530 Alabama Sump	B	4	1				
Morse Blvd Inlet Basket	A	4	1				
Park Ave./Comstock (City Hall)		3	2	3/6/2024	1.0 cy.	Yes	3/6/2024
Rollins Stadium Parking Lot		3	3				
Osceola Ave. Lk.Mizell TRAPS		3	2	2/27/2024	8.0 cy.	Yes	

MONTH/YR: 04/2024							
Facility/ Types	Quad	Crew #	Time hrs.	Date	Est. Vol. Cubic Yards	Sched. Cleaning Yes/No	DATE CLEANED
Baffle Boxes (1st gen.)							
1539 (Glencoe)	C	2	1	4/15/2024	1.0 cy.	Yes	4/15/2024
2400 Venetian Way (Moss)	B	2	1	3/19/2024	1.0 cy.	Yes	
1033 (Via Tuscany Oaks)	B	2	1	4/9/2024	1.0 cy.	Yes	4/9/2024
2601 (Cochise Tr.)	B	2	1	4/15/2024	1.0 cy.	Yes	4/15/2024
201 Osceola Crt.	A	2	1	4/24/2024	2.0 cy.	Yes	4/24/2024
131 (Chelton Cir.)	C	2	1	4/16/2024	0	No	
2010 (Chelton Cir.)	C	2	1	4/16/2024	0	No	
2030 (Chelton Cir.)	C	2	1	4/16/2024	0	No	
271 (Chelton Cir.)	C	2	1	4/16/2024	0	No	
1390 Garden Dr. (Mead Ent.)	C	2	1	4/10/2024	2.0 cy.	Yes	4/10/2024
Mead Clay Pit	C	2	1				
1001 (Osceola Ave.)	D	3	3	4/1/2024	4.0 cy.	Yes	4/1/2024
1211 (Melrose Ave.)	C	3	1	3/19/2024	2.0 cy.	Yes	4/23/2024
Pennsylvania Bridge/Fairfax	C	3	1	4/1/2024	1.0 cy.	Yes	4/1/2024
1218 Alabama (Mayfield)	B	3	1	4/1/2024	1.0 cy.	Yes	4/1/2024
Kiwi Cir. (Webster)	A	4	4				
Fairfax Avenue/Penn. Ave.	C	4	1	4/1/2024	1.0 cy.	Yes	4/1/2024
937 Lakeview Dr.	C	4	1	2/29/2024	2.0 cy.	Yes	
Lakeview Dr./Oxford	C	4	1	2/29/2024	2.0 cy.	Yes	
950 (Palmer Ave.)	B	4	1	2/15/2024	1.0 cy.	Yes	
Parkland Dr. (2614)		2		3/19/2024	1.0 cy.	Yes	
Baffle Boxes (2nd gen.)							DATE CLEANED
Canton Ave/Interlachen	A	3	2	4/3/2024	3.0 cy.	Yes	4/3/2024
160 (Alexander Pl.)	A	3	4	4/15/2024	3.0 cy.	Yes	4/15/2024

801(Elizabeth Drive (2nd Ge	B	3	4	4/1/2024	3.0 cy.	Yes	4/1/2024
Balmoral Road #1 (725)	D	3	3	3/19/2024	2.0 cy.	Yes	4/23/2024
Balmoral Road #2 (665)	D	3	2	4/2/2024	6.0 cy.	Yes	4/2/2024
1357 (Mizell Avenue)	D	5	5				
Morse North (big)*	A	4	3				
Morse South (small)*	A	4	3				
* Area needs to be blocked off with cones the day before to keep cars from parking in the way							
CDS Units							DATE CLEANED
1060 (McKean Circle)	B	2	1	3/6/2024	2.0 cy.	Yes	4/24/2024
1310 (Green Cove Rd.)	A	2	1	4/10/2024	2.0 cy.	Yes	4/10/2024
1402 (Green Cove Rd.)	A	2	1	4/10/2024	2.0 cy.	Yes	4/10/2024
1411 Elizabeth Drive	B	2	1	2/19/2024	2.0 cy.	Yes	4/24/2024
400 (Lakewood/Trisman)	D	2	2	3/6/2024	1.0 cy.	Yes	
Police Station	A	2	2	3/20/2024	1.0 cy.	Yes	
860 (Via Lombardi)	B	3	4	4/9/2024	4.0 cy.	Yes	4/9/2024
363 Lake Sue Drive	D	3	2	4/15/2024	3.0 cy.	Yes	4/15/2024
Sylvan/Bryan	B	3	3	2/14/2024	6.0 cy.	Yes	
965 Lakeview (Antonette)	C	4	1	2/29/2024	2.0 cy.	Yes	
1190 N.Park Ave. (Clayton)	A	4	2	2/15/2024	2.0 cy.	Yes	
150 W. Fawsett	C	3	2	4/1/2024	2.0 cy.	Yes	4/29/2024
Howard Drive	D	3	3	3/26/2024	2.0 cy.	Yes	4/24/2024
Aloma/Sylvan	C	3	2	3/19/2024	2.0 cy.	Yes	4/24/2024
1950 Lee Road	A	3		4/9/2024	5.0 cy.	Yes	4/9/2024
1350 College Pt.	A	3	2				
Exfiltration Systems							DATE CLEANED

Lyman Avenue/City Hall	A	2	2				
Welcome Center	A	2	1				
Casa Feliz	A	2	1				
Train Station	A	2	1	3/20/2024	1.0 cy.	Yes	
1226 Raintree Pl. (Park North)	A	2	1	4/16/2024	1.0 cy.	Yes	4/16/2024
414 Park North Ct.	A	2	1	4/16/2024	1.0 cy.	Yes	4/16/2024
312 Raintree Ct. (Park North)	A	2	1	4/16/2024	1.0 cy.	Yes	4/16/2024
767 French Avenue	C	3	1				
467 Lakewood/Trisman	D	3	2				
333 Trisman Terrace	D	3	2				
Penn. Parking Lot/New England	A	3	2				
Banchory Rd.	D	3	2				
761 Old England (WP9 Golf)	D	3	2				
980 Via Lugano	B	3	3	2/13/2024	3.0 cy.	Yes	
301 Beloit Ave. (N. New York)	A	4	4	3/18/2024	4.0 cy.	Yes	
Sunnyside Drive	A	4	2				
N. Edinburgh Dr.	D	3	1				
180 W Lyman (Parking lot)	A	2	1				
N. Park Avenue*	A	4	5				
* Need to arrange road closure at least two weeks ahead of cleaning - schedule with Butch & Streets							
Miscellaneous Retrofits							DATE CLEANED
2225 Via Tuscany (Sump)	B	2	1	4/15/2024	1.0 cy.	Yes	4/15/2024
2160 Park Ave. Drainwell Sur	A	2	2	4/15/2024	1.0 cy.	Yes	4/15/2024
151 Wellbourne Ave. Sumps	A	2	1				
605 Lake Front Blvd. Sump	A	2	1	4/2/2024	1.0 cy.	Yes	4/2/2024
1041 Tuscany Place Inlet Bas	B	2	1	2/27/2024	1.0 cy.	Yes	

1018 Turner-1061 (Lk.Bell Dr	A	2	1	4/2/2024	1.0 cy.	Yes	4/2/2024
1551 Laurel Road Sump Inlet	D	3	2				
2080 Lk. Dr.	D	2	1	2/29/2024	1.0 cy.	Yes	4/24/2024
Phelps/Bryan Sump	B	3	1	3/19/2024	1.0 cy.	Yes	
Phelps Avenue Sump	D	3	1	4/16/2024	2.0 cy.	Yes	
Beachview Weir/Sump	A	3	1				
1530 Alabama Sump	B	4	1	4/1/2024	1.0 cy.	Yes	4/1/2024
Morse Blvd Inlet Basket	A	4	1				
Park Ave./Comstock (City Hall)		3	2	3/6/2024	1.0 cy.	Yes	
WP 18 Sumps		3	3	5/1/2024	2.0 cy.	Yes	5/1/2024
Osceola Ave. Lk.Mizell TRAPS		3	2				

Stormwater Staff Update

Lake Killarney Board

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



Lake Killarney Board

agenda item 8.a

item type

Board Comments

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Discussion of Public Comments Received

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

None

**item type**

Upcoming Agenda Items

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Upcoming Agenda Items

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

None



Lake Killarney Board

agenda item 9.b

item type

Upcoming Agenda Items

meeting date

June 5, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Summary of Meeting Action Items

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

None