



City Commission Work Session

Agenda

January 12, 2023 @ 1:00 pm

City Hall - Commission Chambers
401 S. Park Avenue

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
 2. Discussion Item(s)
 - a. Stormwater and Flood Management Presentation 30 minutes
 3. Adjournment



City Commission **agenda item**

item type Discussion Item(s)	meeting date January 12, 2023
prepared by Melissa Meade	approved by Michelle del Valle, Randy Knight
board approval Completed	
strategic objective	

subject

Stormwater and Flood Management Presentation

motion / recommendation

background

A presentation on stormwater and flood management, as it relates to the effects of Hurricane Ian, will be provided during this work session. The presentation will include an assessment of issues, actions taken and future considerations.

alternatives / other considerations

fiscal impact

ATTACHMENTS:

[FINAL Commission Work Session Presentation - 1.12.22.pptx](#)

Stormwater & Flood Management - Commission Work Session

Prepared by:

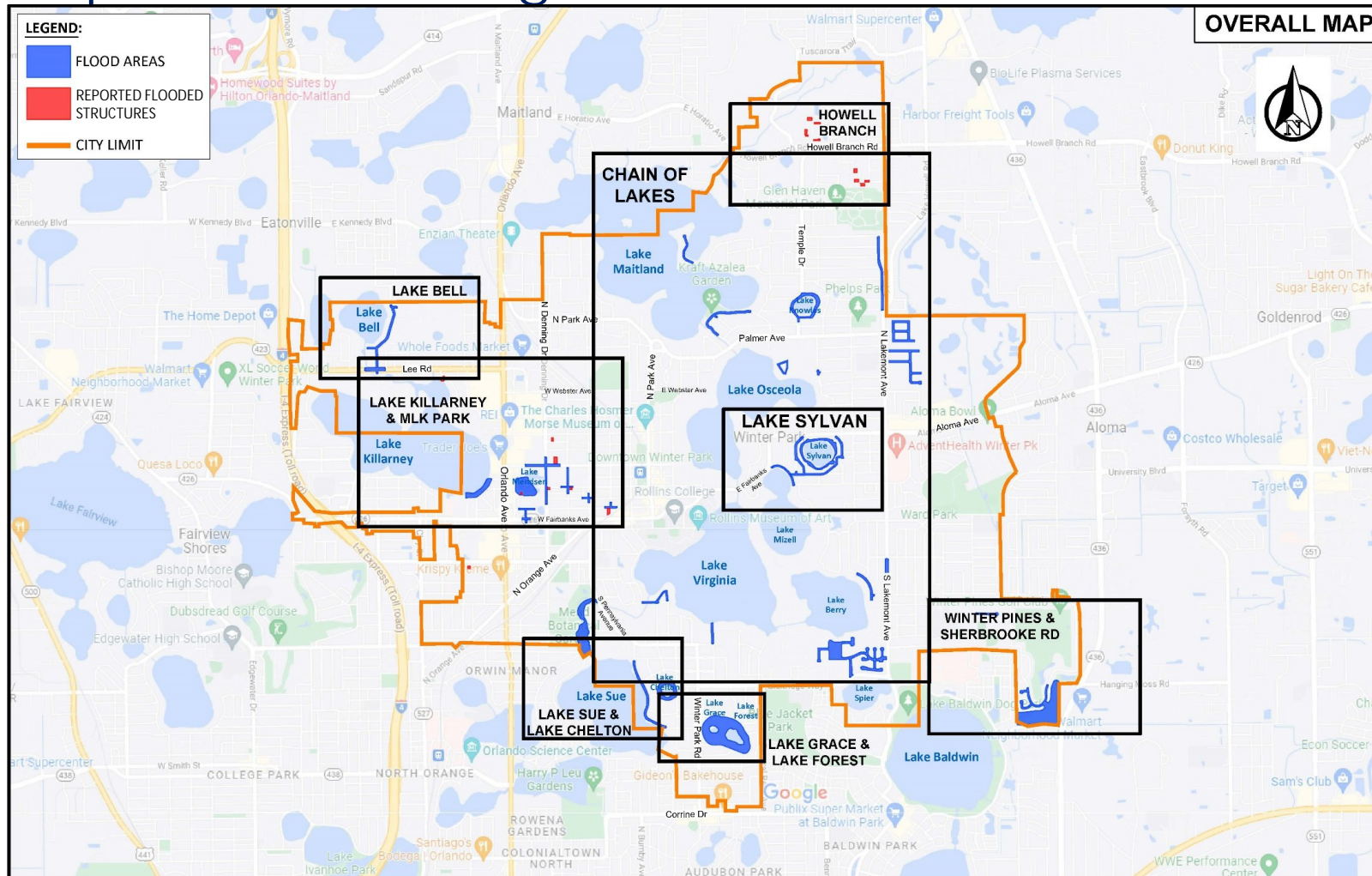
Stormwater Management Division
Public Works and Transportation

Natural Resources and Sustainability

January 12, 2023



Hurricane Ian Reported Flooding

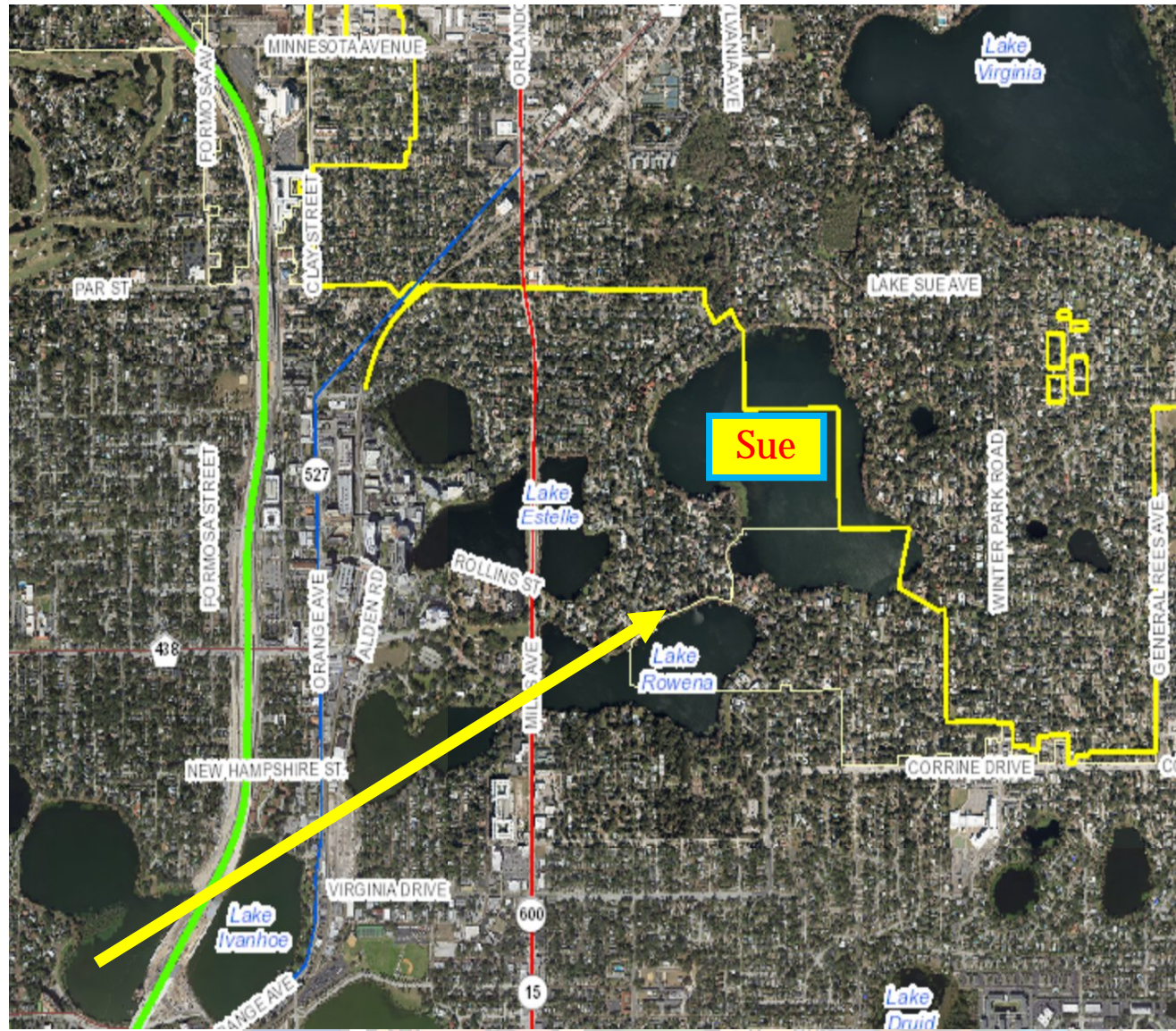


The image is a 2x2 grid of photographs showing flooded areas. The top-left photo, labeled 'Lake Virginia', shows a flooded residential area with a house partially submerged and a street lamp in the water. The top-right photo, also labeled 'Lake Virginia', shows a large white house with a porch and balcony, with water reaching up to the first floor. The bottom-left photo, labeled 'Dinky Dock', shows a flooded area with a wooden dock structure and a large tree. The bottom-right photo, labeled 'Isle of Sicily', shows a flooded area with a large tree and a house in the background, with the foreground showing the hood of a car.



Chain of Lakes – Receiving Waters

- Loch Haven
Chain of Lakes



Chain of Lakes - Lake Sue



Chain of Lakes - Lake Interconnects for Consideration

Lake Sylvan to Lake Mizell

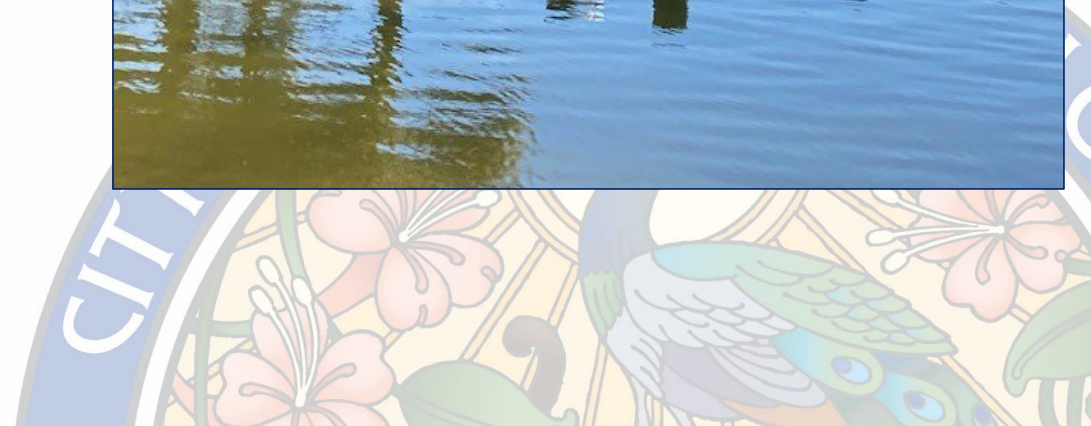


Lake Knowles to Lake Maitland

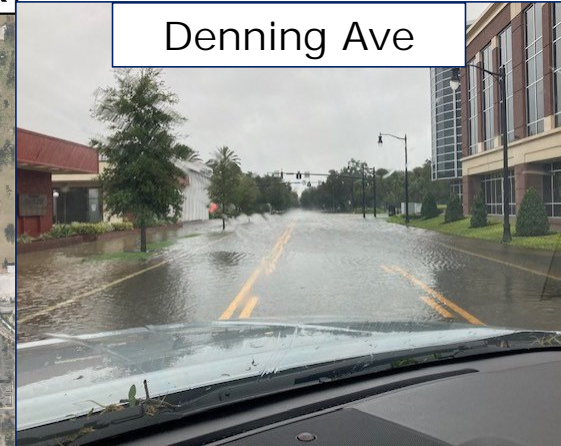
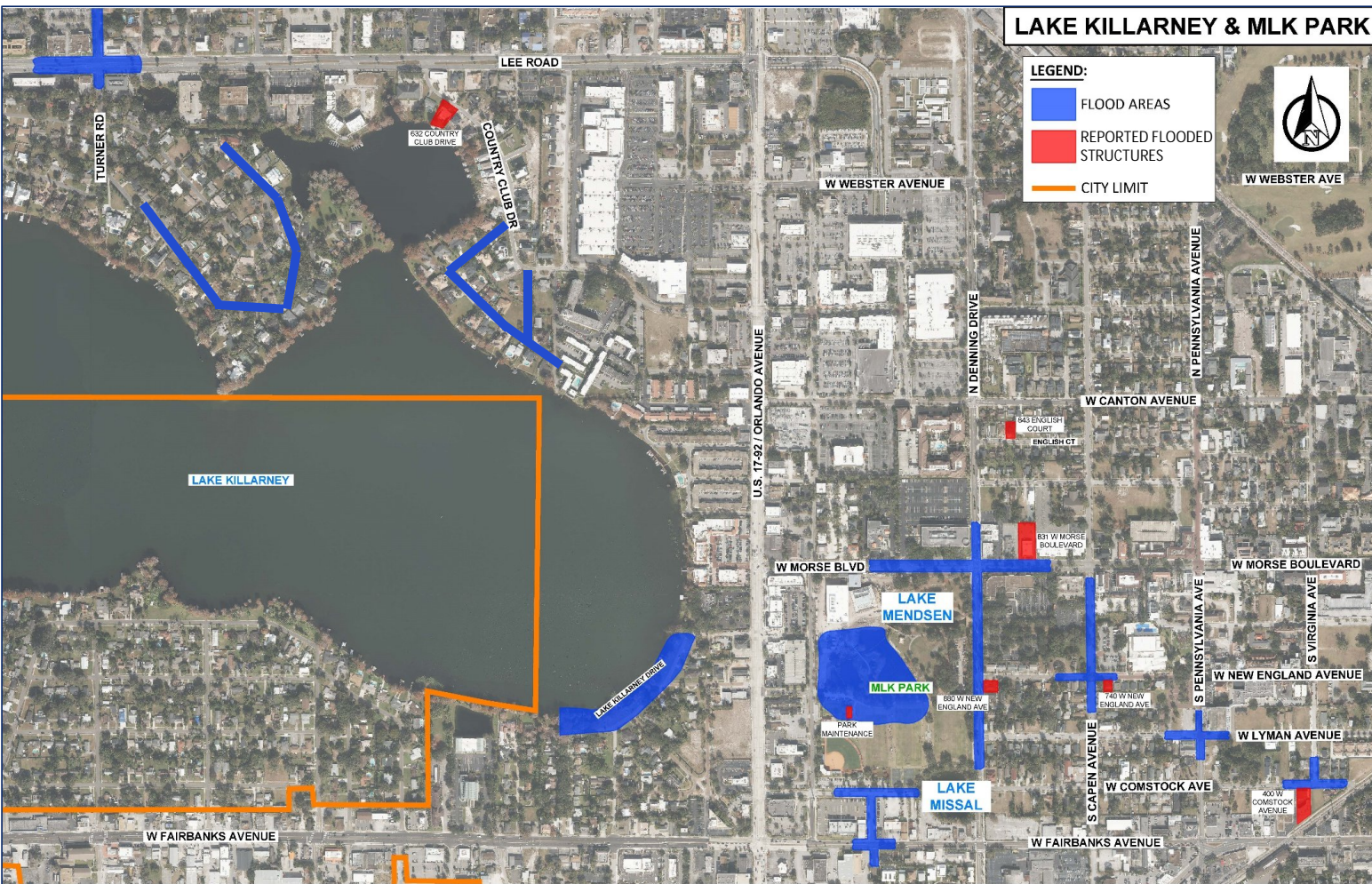


Chain of Lakes - Future Drainage Improvements

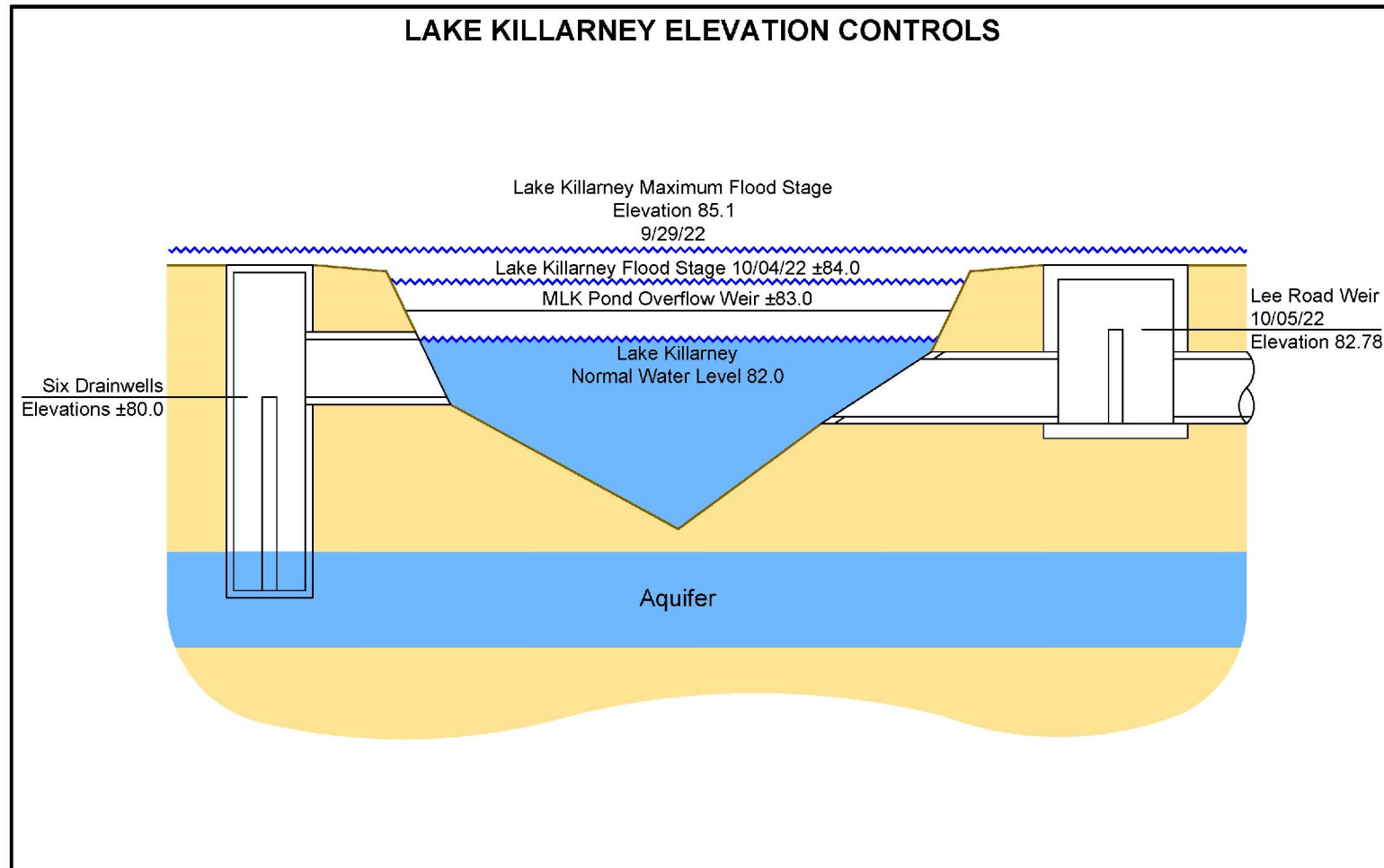
- College Pt Drainage Improvement Phase II
- Temple Dr Drainage Improvements
- Canton Ave Drainage Improvements



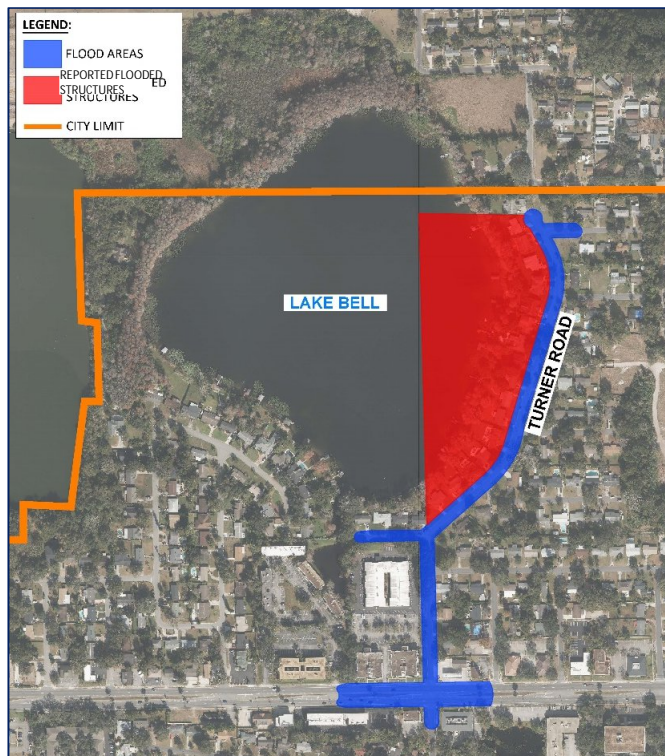
Lake Killarney & MLK Pond



Lake Killarney & MLK Pond



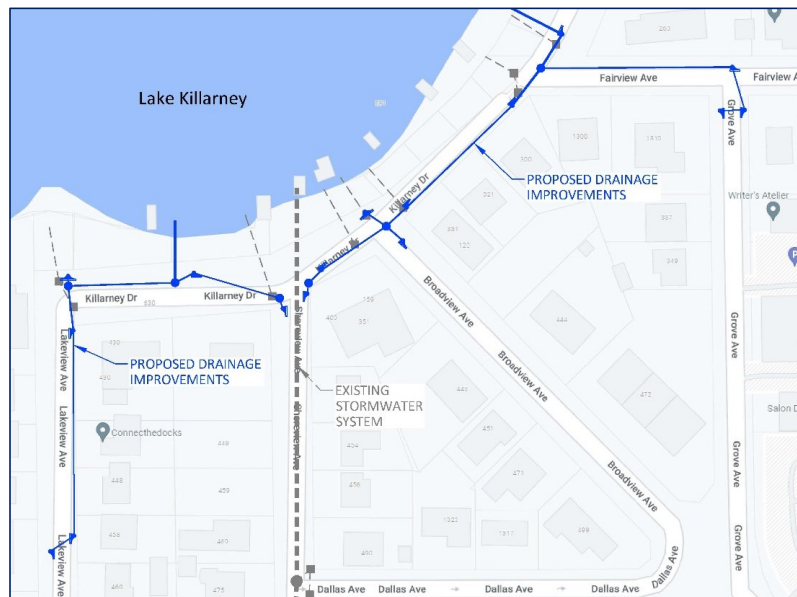
Lake Bell



Lake Killarney, MLK Pond & Lake Bell

Future Mitigation

- Increasing stormwater storage volume within MLK Pond basin
 - Three alternatives
- Killarney Dr Outfall Consolidation
- Possible Lake Interconnect for Consideration: Lake Bell to Lake Gem

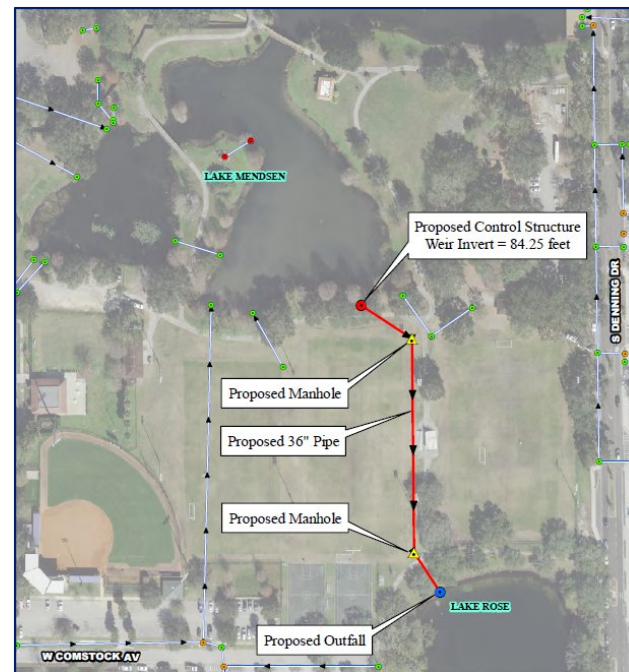


Lake Killarney & MLK Pond Future Mitigation

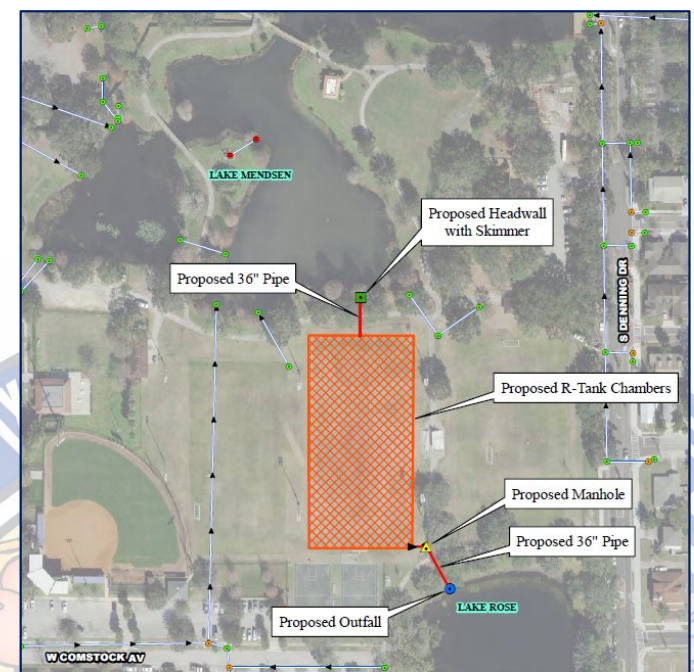
Increased Stormwater Storage Volume within MLK Pond Basin



Alternative 1—Exfiltration Basin
Decrease in peak stage (100 yr): 0.26 ft
Estimated cost: \$6,516,021



Alternative 2 – New Interconnect
Decrease in peak stage (100 yr): 0.05 ft
Estimated cost: \$172,378



Alternative 3 – Combination of 1&2
Decrease in peak stage (100 yr): 0.2 ft
Estimated cost: \$2,065,776

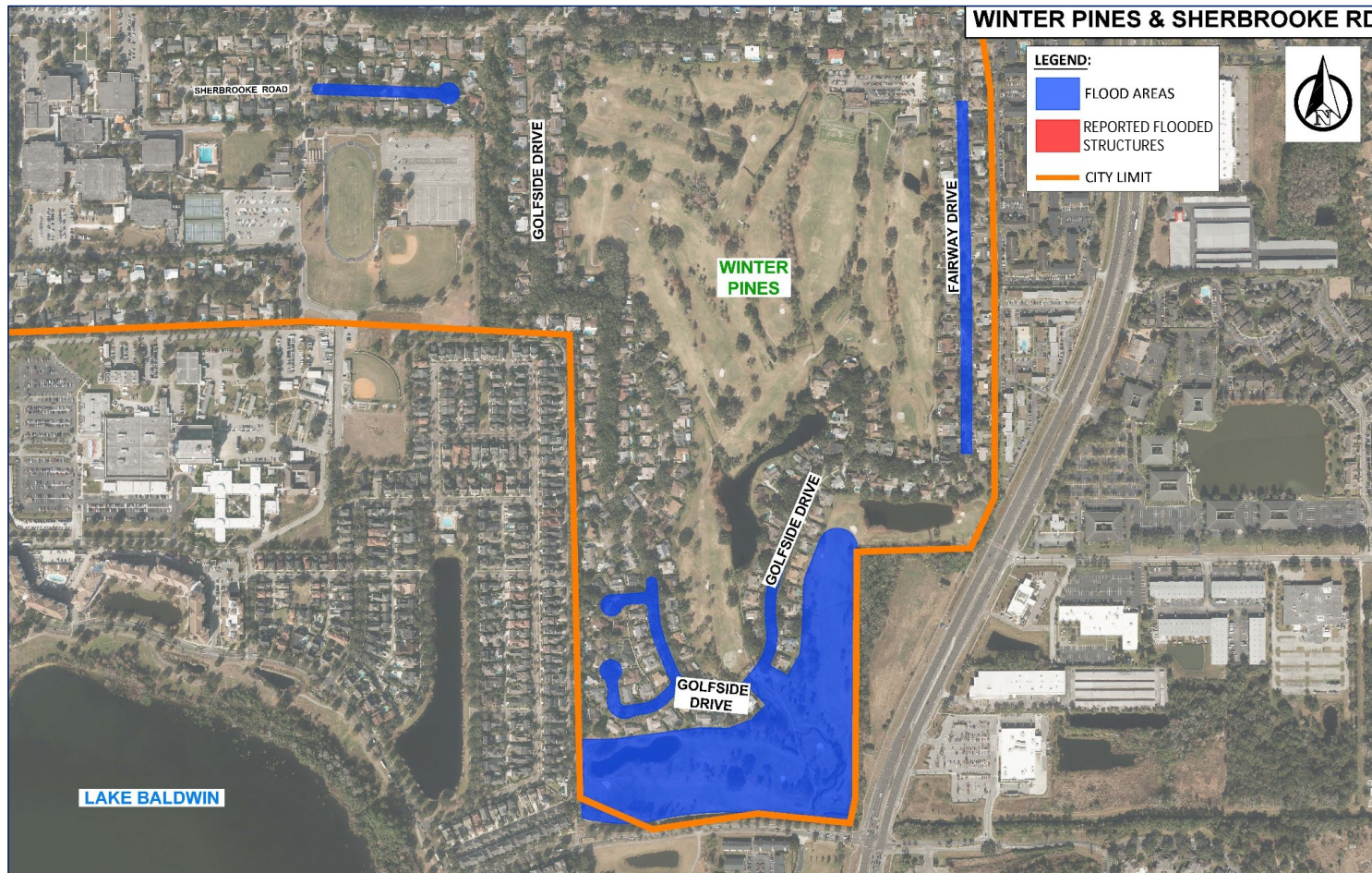
Lakes Grace & Forest -

Monitoring & Mitigation

- Pump Purchase and Action Plan
- Lake Interconnection Consideration



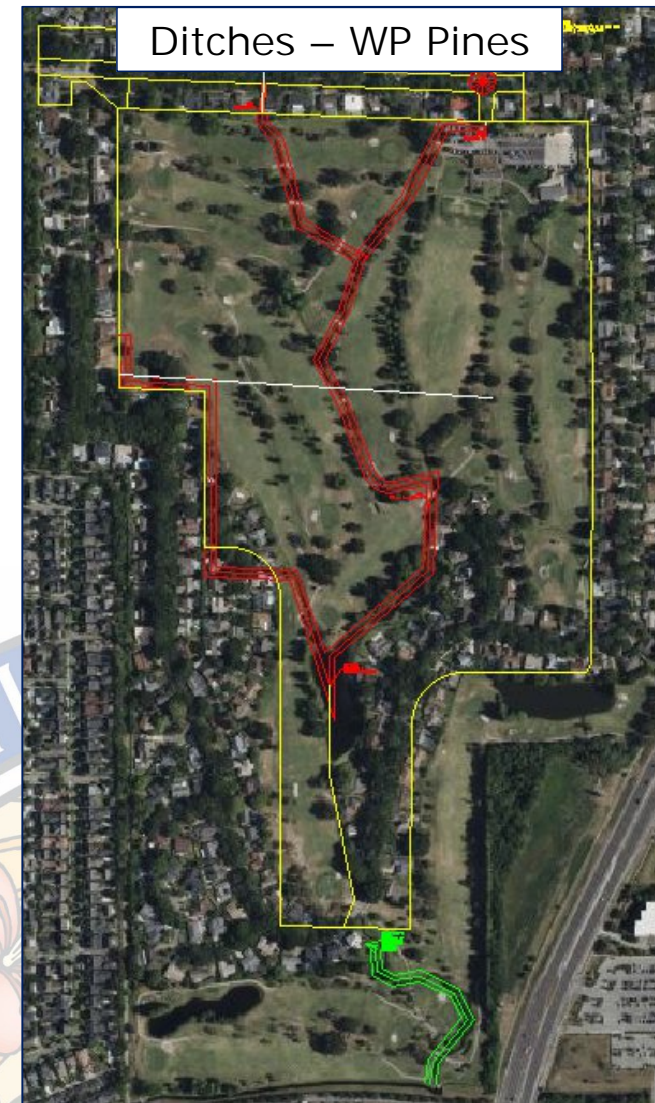
Contributors to Little Econ Basin - Winter Park Pines



Little Econ Basin

Future Mitigation

- Dredging of waterways throughout Winter Pines Golf Course
- Arbor Park Phases II & III
- Tanglewood ditch piping project



Future Flood Mitigation Considerations

- Updating Hurricane Preparedness Plan
- Survey Lowest FFE for Lakefront Properties
- Installing Smart Lake Level Gauges
- Additional City-wide Weather Stations
- Lake Level Alterations Policy
- Future CIP Considerations for Lake Interconnects
- Climate & Resiliency Grant



Community Rating System (CRS)

- “What-if” Report for City of Winter Park
- Community Assistance Visit (CAV) Report requirement
- Report on action taken to date
- Next Steps

Community Information System

Release 5.11.00.00, 10/07/2022 -- Build 0009, [Skip Navigation](#) Logged in as: lindavause [Session expires in 16 mins]

CRS What-If

Application	CRS Coord.	2ndPOC	Activity Points	Chronology	Comments	What If	GTA
Community: WINTER PARK, CITY OF		State: FLORIDA					
County: <input type="text" value="ORANGE COUNTY"/>		CID: 120188					
Current CRS Class = 10 [Printable Version]							
		TOTAL	SFHA *	X-STD/AR/A99 **	PRP ***		
PIF		450	56	335	59		
PREMIUM		\$239,675	\$35,518	\$176,454	\$27,703		
AVERAGE PREMIUM		\$533	\$634	\$527	\$470		
CRS Class							
09	Per Policy	\$24	\$32	\$26	\$0		
	Per Community	\$10,599	\$1,776	\$8,823	\$0		
08	Per Policy	\$27	\$63	\$26	\$0		
	Per Community	\$12,375	\$3,552	\$8,823	\$0		
07	Per Policy	\$31	\$95	\$26	\$0		
	Per Community	\$14,151	\$5,328	\$8,823	\$0		
06	Per Policy	\$55	\$127	\$53	\$0		
	Per Community	\$24,749	\$7,104	\$17,645	\$0		
05	Per Policy	\$59	\$159	\$53	\$0		
	Per Community	\$26,525	\$8,880	\$17,645	\$0		
04	Per Policy	\$63	\$190	\$53	\$0		
	Per Community	\$28,301	\$10,655	\$17,645	\$0		
03	Per Policy	\$67	\$222	\$53	\$0		
	Per Community	\$30,077	\$12,431	\$17,645	\$0		
02	Per Policy	\$71	\$254	\$53	\$0		
	Per Community	\$31,853	\$14,207	\$17,645	\$0		
01	Per Policy	\$75	\$285	\$53	\$0		
	Per Community	\$33,629	\$15,983	\$17,645	\$0		

* SFHA (Zones A, AE, A1-A30, V, V1-V30, AO, and AH): Discount varies depending on class.

** SFHA (Zones A99, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, and AR/AO): 10% discount for Classes 1-6; 5% discount for Classes 7-9.

*** Preferred Risk Policies are not eligible for CRS Premium Discounts.

Questions/Comments?

