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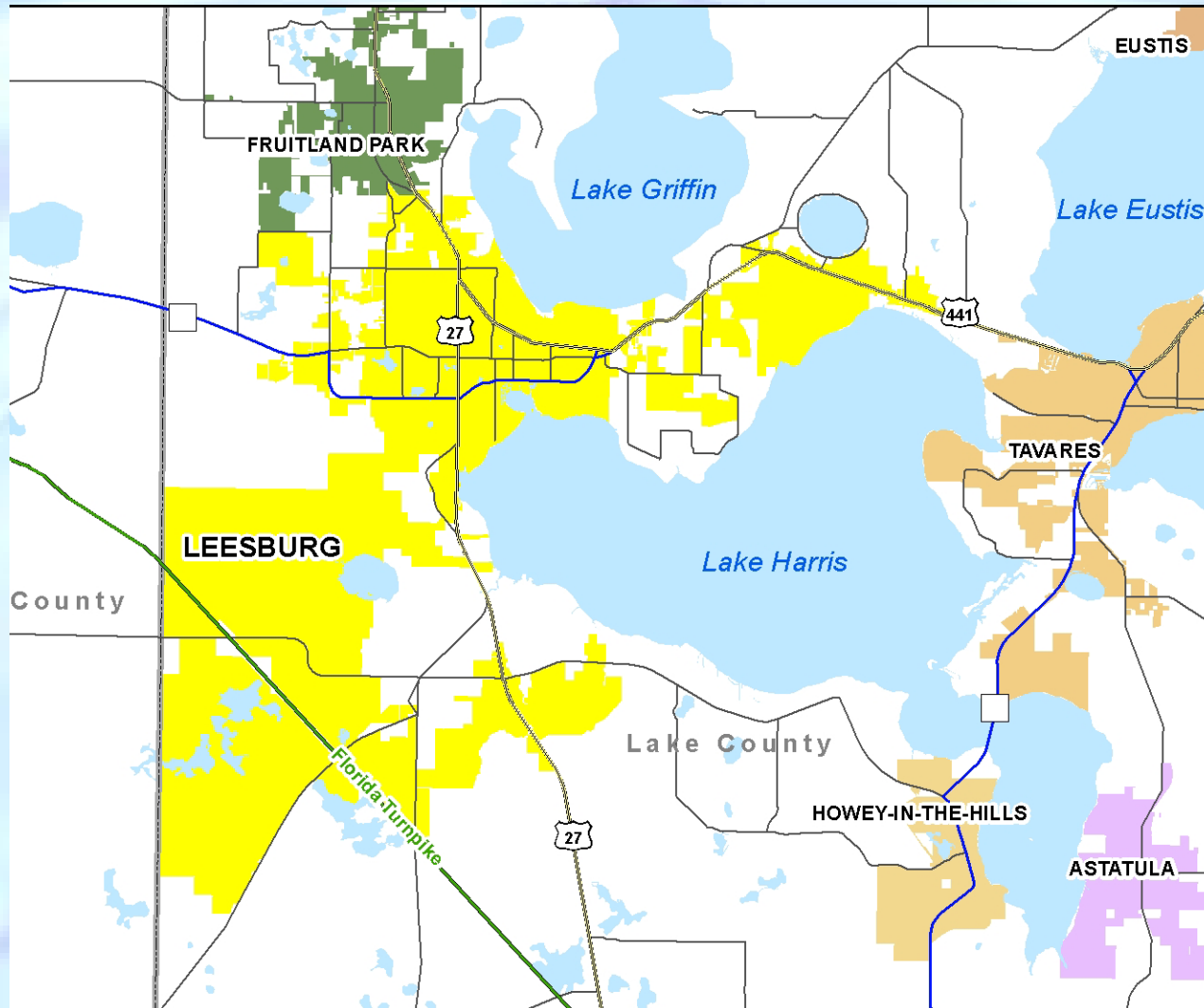
Presentation to

Upper Ocklawaha River Basin BMAP Basin Working Group

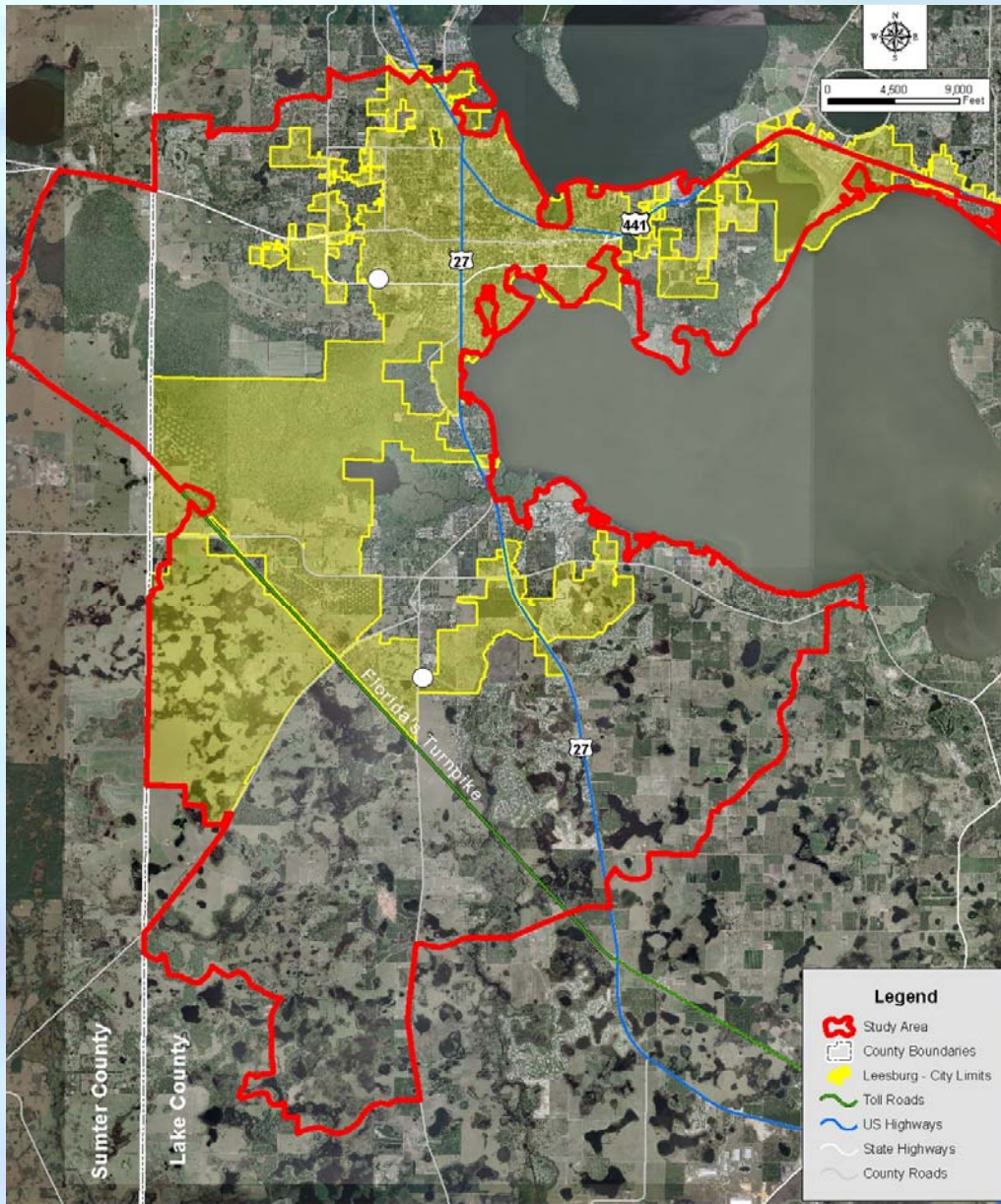
February 13, 2008



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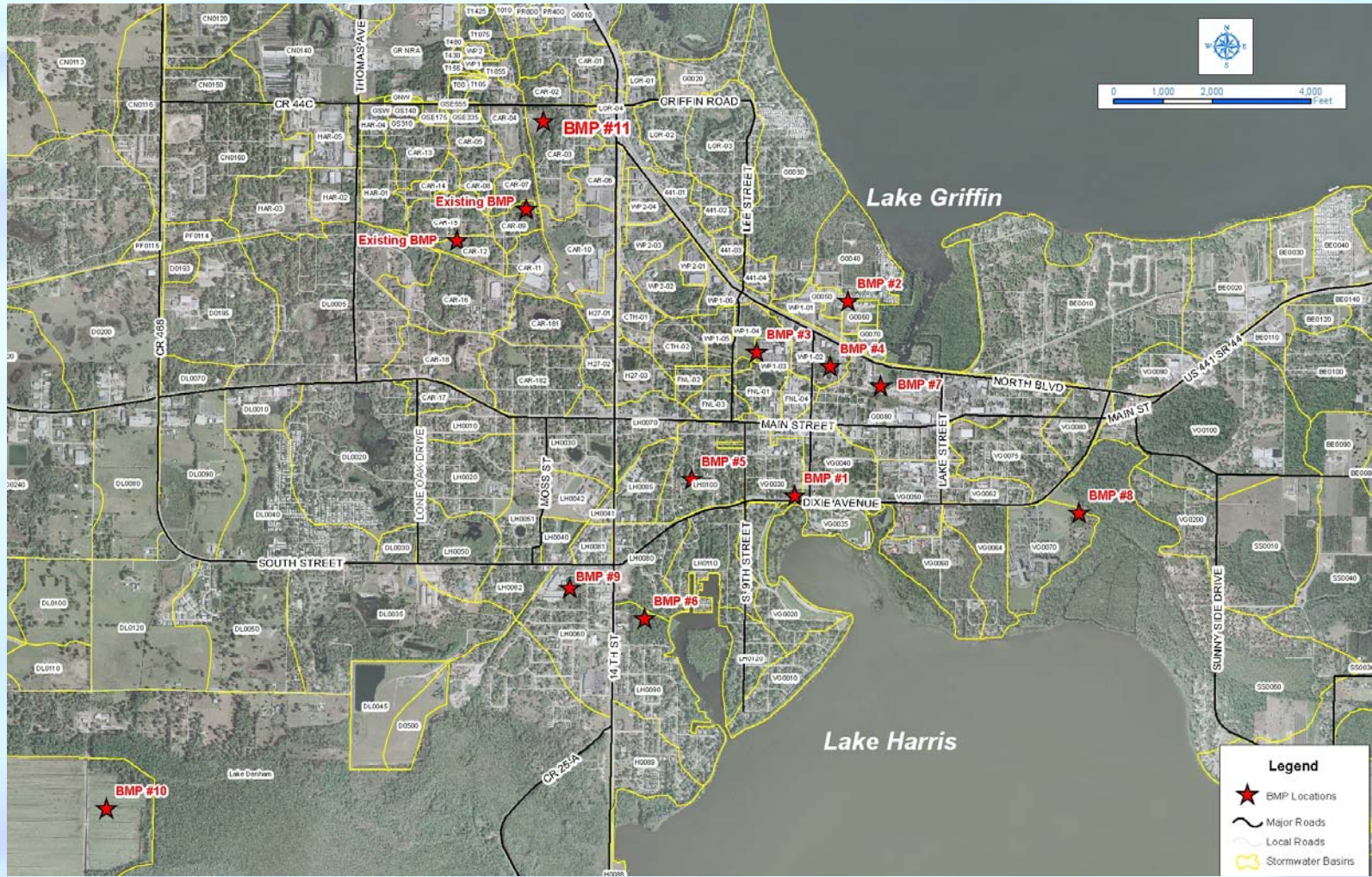
Master Plan Study Area

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17 Major Drainage Basins



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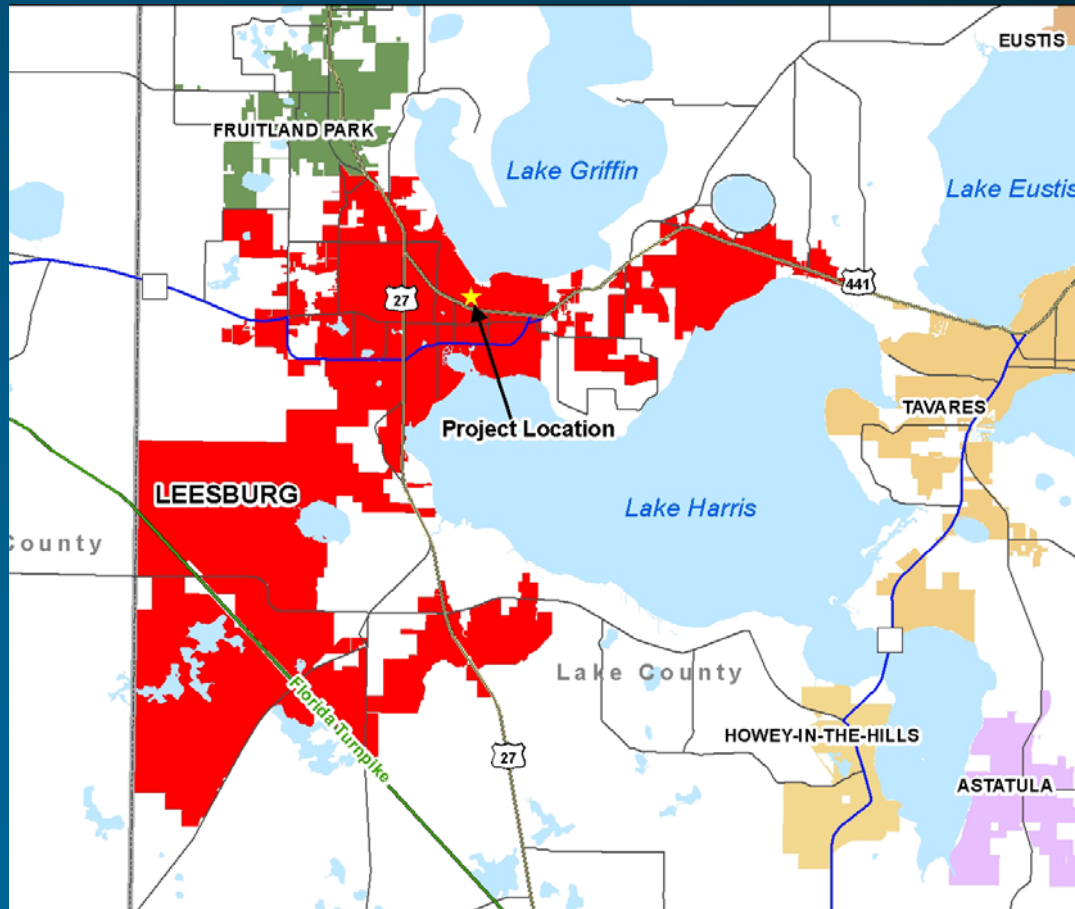


BMP Projects Recommended in Master Plan

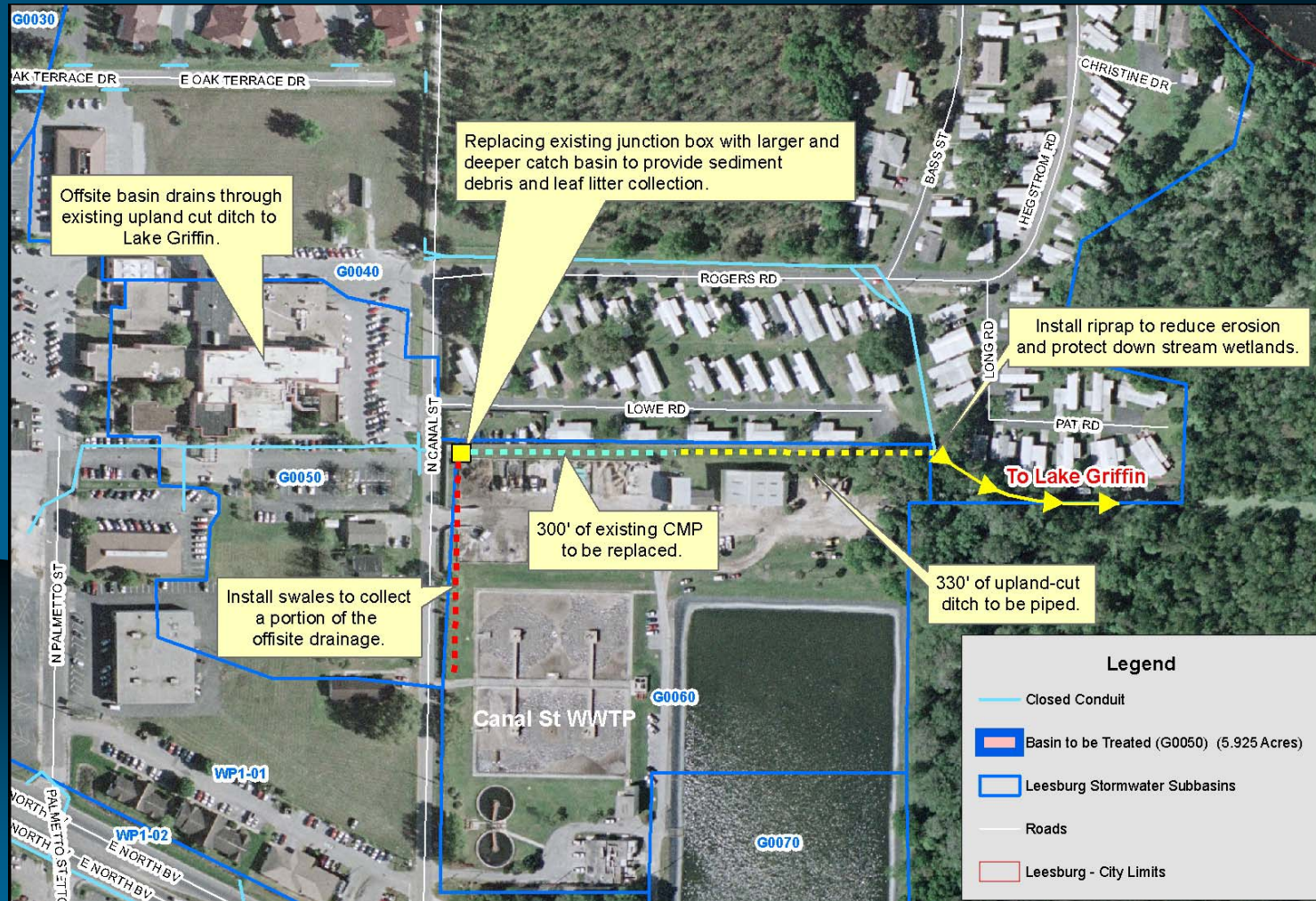
**City of Leesburg's
Canal Street (Lake Griffin)
and
Venetian Gardens (Lake Harris)
Stormwater Retrofit Projects**



Canal Street Stormwater Retrofit Project



Canal Street Stormwater Retrofit Project



Canal Street Stormwater Retrofit Project



Canal Street Stormwater Retrofit Project



Canal Street Stormwater Retrofit Project



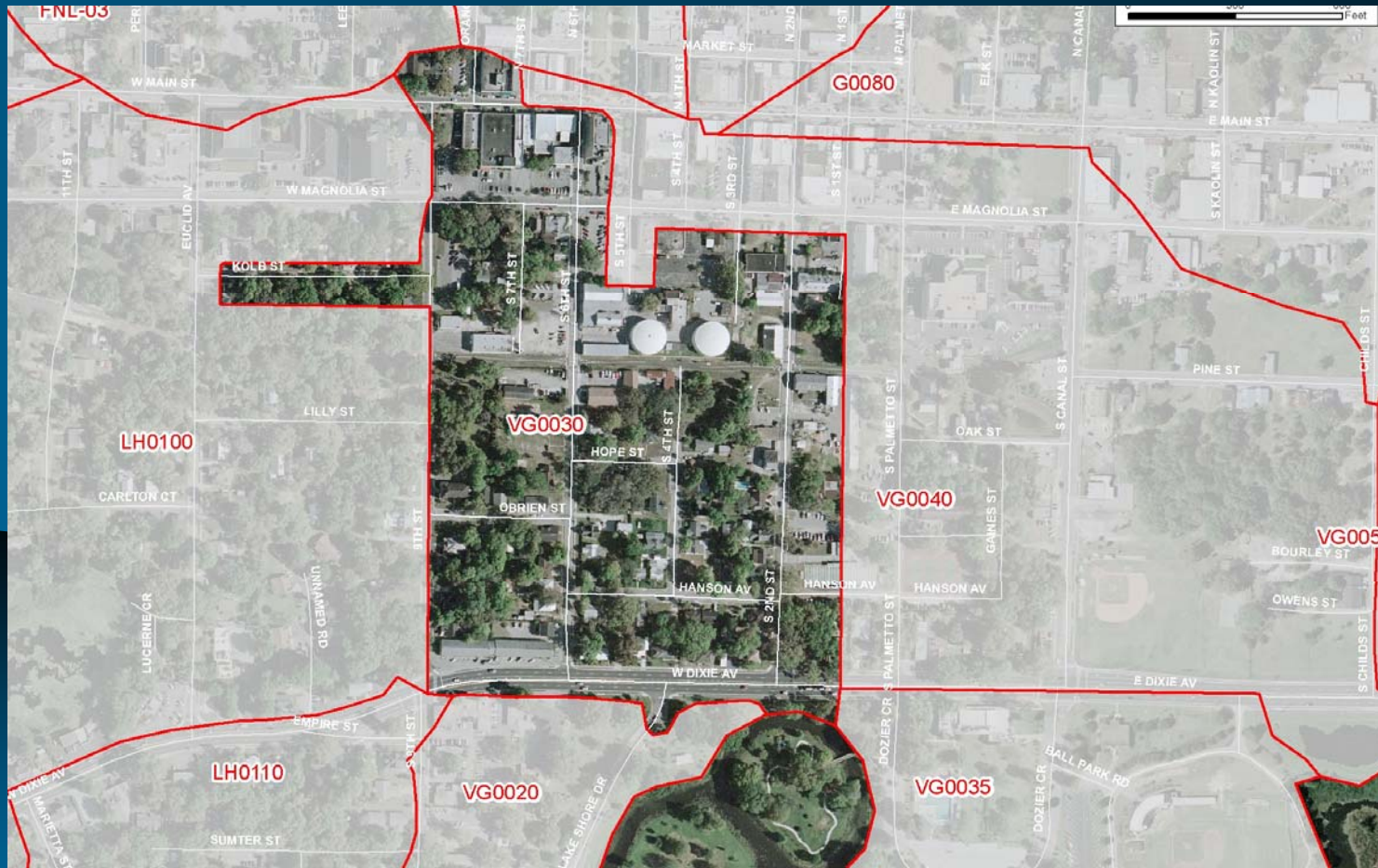
Canal Street Stormwater Retrofit Project



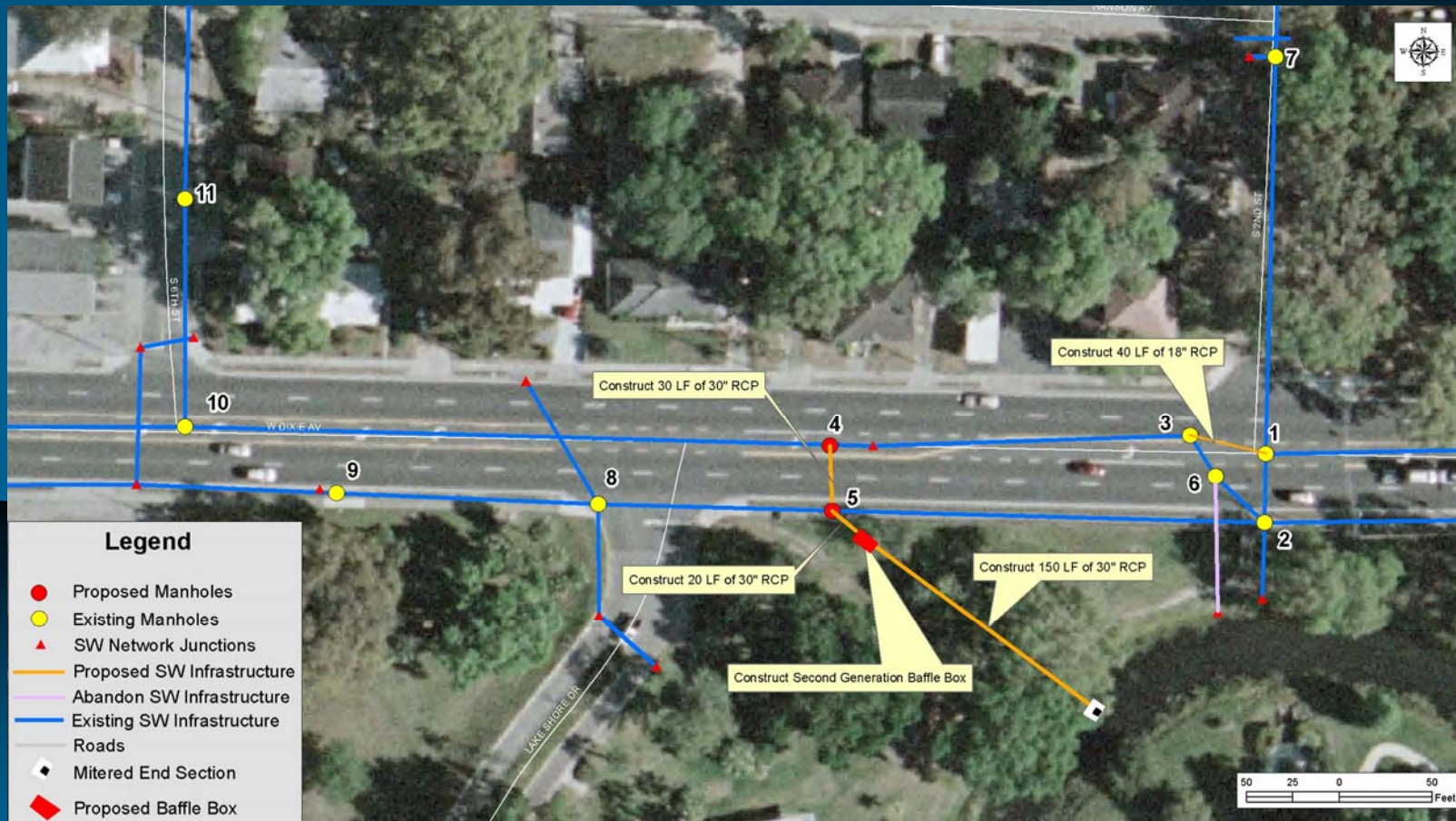
Canal Street Stormwater Retrofit Project

- Targeted Pollutants
 - Floating Debris
 - Sediment
 - Hydrocarbons
- Grant Funding
 - SJRWMD for Construction
 - \$44,250
- Permitting
 - FDEP in Conjunction with WWTP Detention Pond

Venetian Gardens Stormwater Retrofit Project



Venetian Gardens Stormwater Retrofit Project



Venetian Gardens Stormwater Retrofit Project

- **Targeted Pollutants**

- Nutrients
- Sediment and Debris
- Hydrocarbons

- **Grant Funding**

- SJRWMD for Construction (\$ \$48,244)
- FDEP 319 Grant (\$123,244)

- **Permitting**

- No Permit Required by SJRWMD

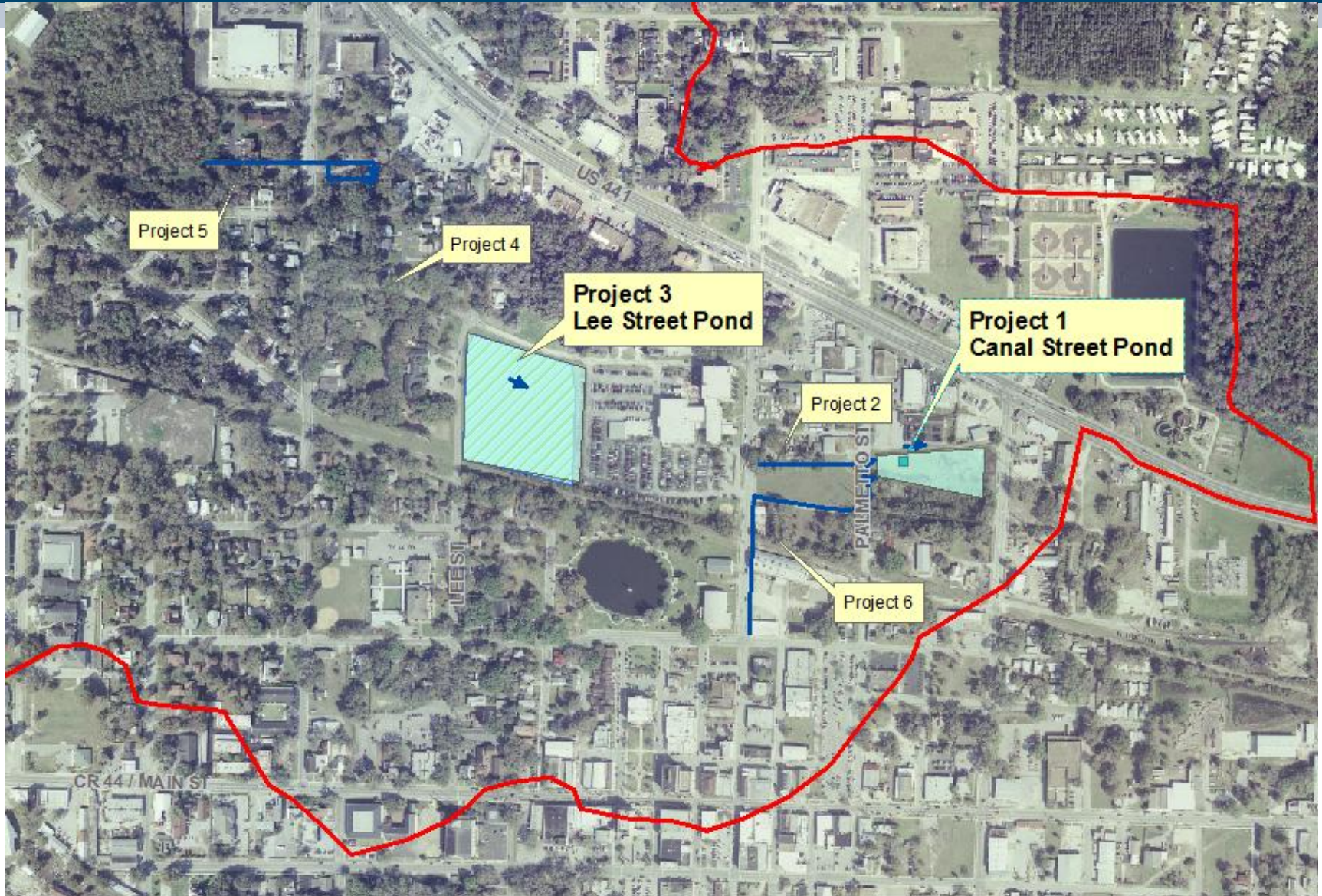
City of Leesburg's Whispering Pine Basin Stormwater Retrofit Projects



Whispering Pines Watershed



Whispering Pines Recommendations



Whispering Pines Prioritization

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Criterion	Weight	Projects				
		1	2	3	4	5
Wetland impacts	5	5	4	3	4	4
Wetland mitigation opportunities	5	1	1	4	1	1
Flood reduction benefits	20	5	1	4	1	4
Pollutant removal benefits	25	3	1	5	1	1
Ability to permit	5	4	5	3	5	3
Constructability	5	4	5	4	4	3
Opportunity for grant funding	20	4	1	5	1	1
Safety improvement	10	1	4	1	5	5
Ability to maintain	5	2	5	2	5	5
Weighted total	100	345	205	395	210	255
Cost		\$332,000	\$101,000	\$1,214,000	\$183,000	\$127,000
Relative benefits to cost		2.1	4.1	0.7	2.3	4.0
Ranking		4	1	5	3	2
Recommended Order of Implementation		1	3	2	5	4

Canal Street Pond Project



Canal Street Pond Expanded Area



Load Reductions and Permitting Issues

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Estimated TP Load Reduction for Canal Street Pond (lb/yr)		
Parameter	Current Conditions	Potential 5 Acres of Downtown Development
Pre-Project Runoff	26.4	34.0
Post-Project Runoff	10.6	13.6
Load Reduction	15.8	20.4
% Load Reduction	60	60

- Serves 19 acres with capacity for up to 10 acres more
- Ability to treat future downtown development/ redevelopment created additional permitting time
- Wetland mitigation

Lee Street Pond Options

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- Significant onsite wetlands
- 20 percent treatment availability
- Flushing concerns
- Three options considered:
 - Wet detention
 - Treatment wetland
 - Combination
 - High flow diversion for all three

Lee Street Pond Concept



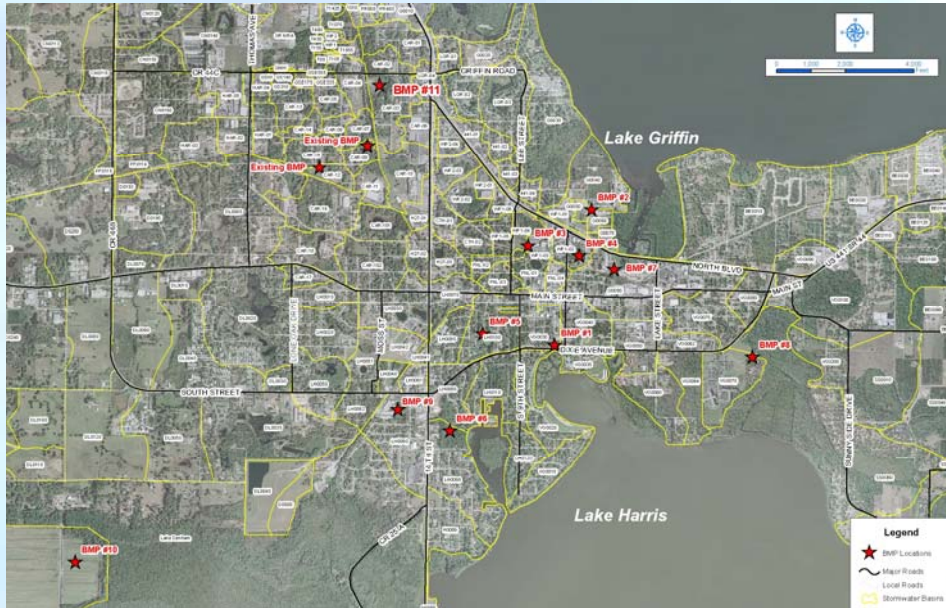
Load Reductions and Permitting Issues

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Estimated TP Load Reduction for Lee Street Pond	
Parameter	TP (lb/yr)
Pre-Project	204.2
Post-Project	81.7
Load Reduction	122.5
% Reduction	60

- Maximizing phosphorus reduction did not follow new development criteria
- Avoid and minimize wetland impacts

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**BMP #1: Final Design at 90%,
Construction Complete by
September 2008**

**BMP #2: Construction
Complete**

**BMP#3 and #4: Final Design
Complete, Permitting
Complete, Construction to
Begin in 2008**

**BMP # 5: Conceptual Plan
Complete, SJRWMD Grant
Funding Approved, LCWA
Grant Funding Pending**

Questions and Answers

