LAKE COUNTY
FLORIDA

Royal Trails Flood Study

Public Information Meeting #3
February 11, 2010

Inwood consulting engineers

Meeting Agenda

- 6:30 pm - Meeting Start
- 6:30 to 6:45 pm - Sign-in and Informal Discussion
- **6:45 to 7:15 pm - Formal Presentation**
- 7:15 to 8:00 pm – Public Comments & Questions
- 8:00 pm - End of Meeting

Public Comment Form / Speaker Card

Date: 02/11/10 Speaker Request Card Number

To be completed prior to making a comment, each speaker is limited to 3 minutes.

Public Meeting – February 11, 2010

Royal Trails Flood Study
Lake County, Florida

Please Print:

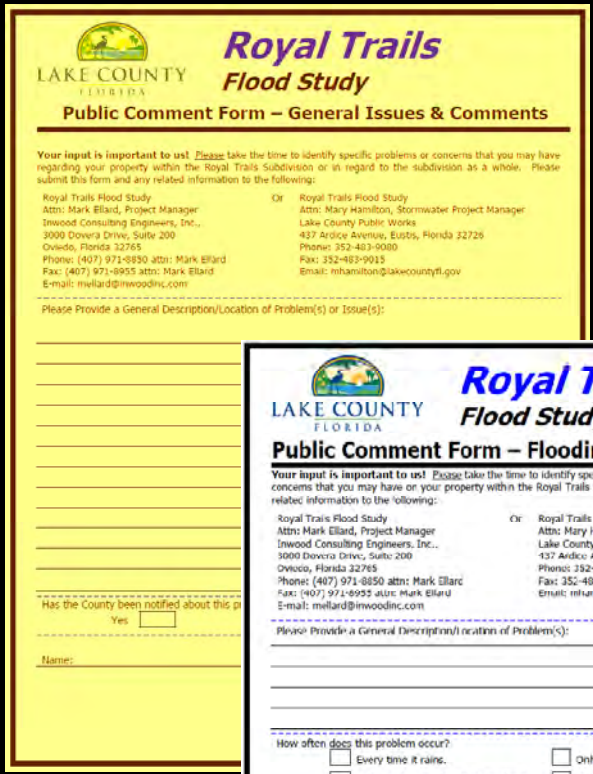
Name: _____
Last First Middle Initial

Address: _____
Street

_____
City State Zip Code

Telephone: ( ) _____
Area Code

Representing: Self _____ Firm _____
Government Agency _____
Civic Organization _____
Homeowners Association _____
Other _____



LAKE COUNTY FLORIDA

Royal Trails
Flood Study

Public Comment Form – General Issues & Comments

Your input is important to us! Please take the time to identify specific problems or concerns that you may have regarding your property within the Royal Trails Subdivision or in regard to the subdivision as a whole. Please submit this form and any related information to the following:

Royal Trails Flood Study
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Inwood Consulting Engineers, Inc.,
3000 Dovera Drive, Suite 200
Oviedo, Florida 32765
Phone: (407) 971-8850 attn: Mark Ellard
Fax: (407) 971-8955 attn: Mark Ellard
E-mail: mellard@inwoodinc.com

Or

Royal Trails Flood Study
Attn: Mary Hamilton, Stormwater Project Manager
Lake County Public Works
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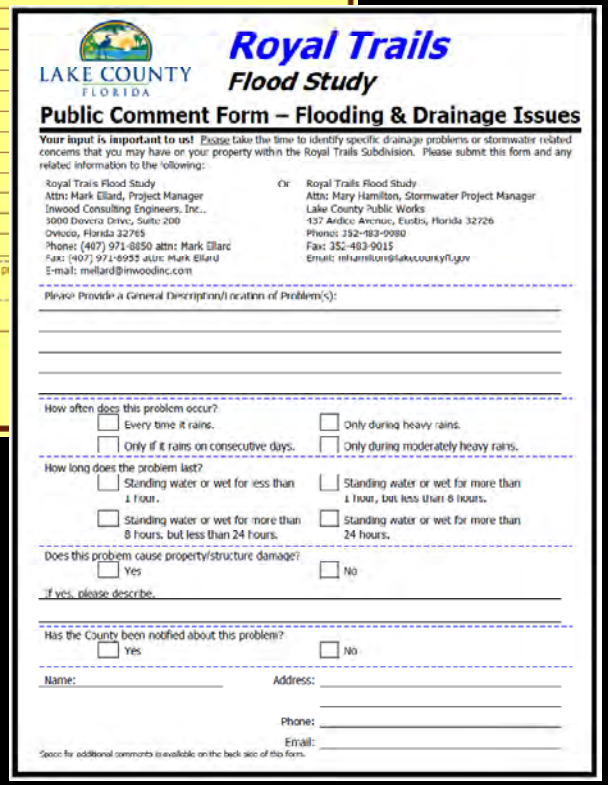
Fax: 352-483-9015
Email: mhamilton@lakecountyfl.gov

Please Provide a General Description/Location of Problem(s) or Issue(s):

Has the County been notified about this p

Yes

Name:



LAKE COUNTY FLORIDA

Royal Trails
Flood Study

Public Comment Form – Flooding & Drainage Issues

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Does this problem cause property/structure damage?
- ☐ Yes
- ☐ No

If yes, please describe.

Has the County been notified about this problem?
- ☐ Yes
- ☐ No

Name: Address:

Phone:

Email:

Space for additional comments is available on the back side of this form.

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Presentation Overview

- ✓ **Purpose of Study**
- Review of Flood and Water Quality Assessment
- Deficiency Correction Evaluation
- Project Schedule & Milestones

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Purpose of Study

- Assess Stormwater Management
  - Identify Drainage Deficiencies
  - Delineate Floodplains
  - Evaluate Water Quality Impacts
- Conceptualize Improvements

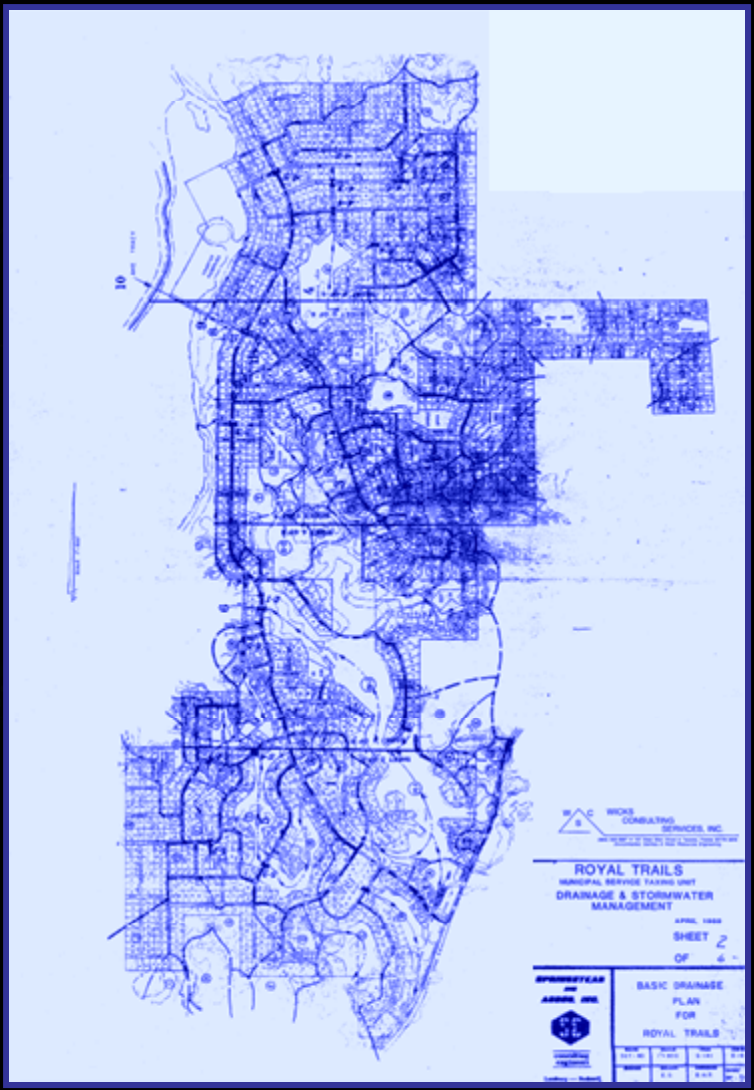
  Address Problems

Royal Trails Subdivision

- ~3000 Acres of Low Density Residential
- Developed in Late 1970s - Early 1980s
- Much Left to Develop
- Interspersed Wetlands
- Stormwater Management by

  “Fill & Flow” between Wetland and

  Depressional Storage Areas
- Numerous Closed Basins



Royal Trails Subdivision

Inwood consulting engineers

Presentation Overview

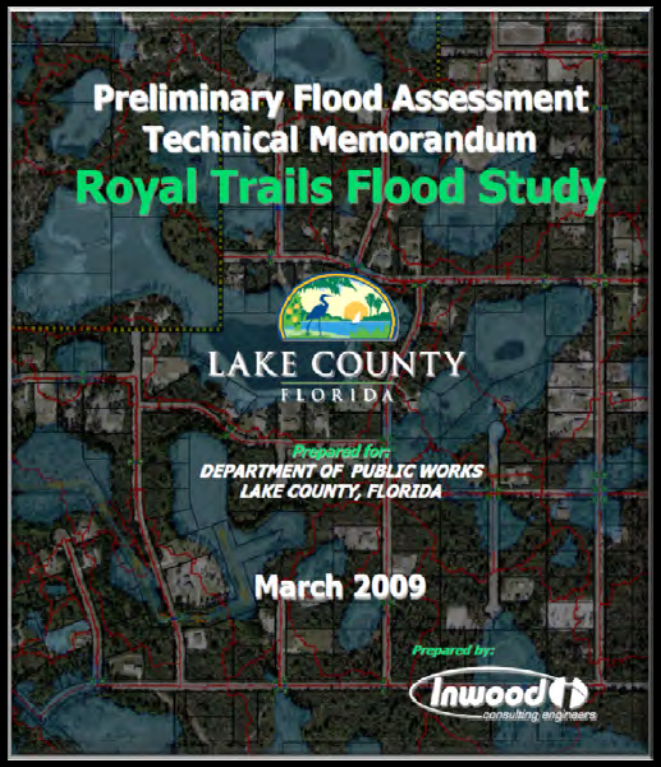
- Purpose of Study
- ✓ **Review of Flood and Water Quality Assessment**
- Deficiency Correction Evaluation
- Project Schedule & Milestones

Flooding Assessment

- Detailed Floodplain Delineation
- Level of Service (LOS)

  Analysis of Drainage

  Structures

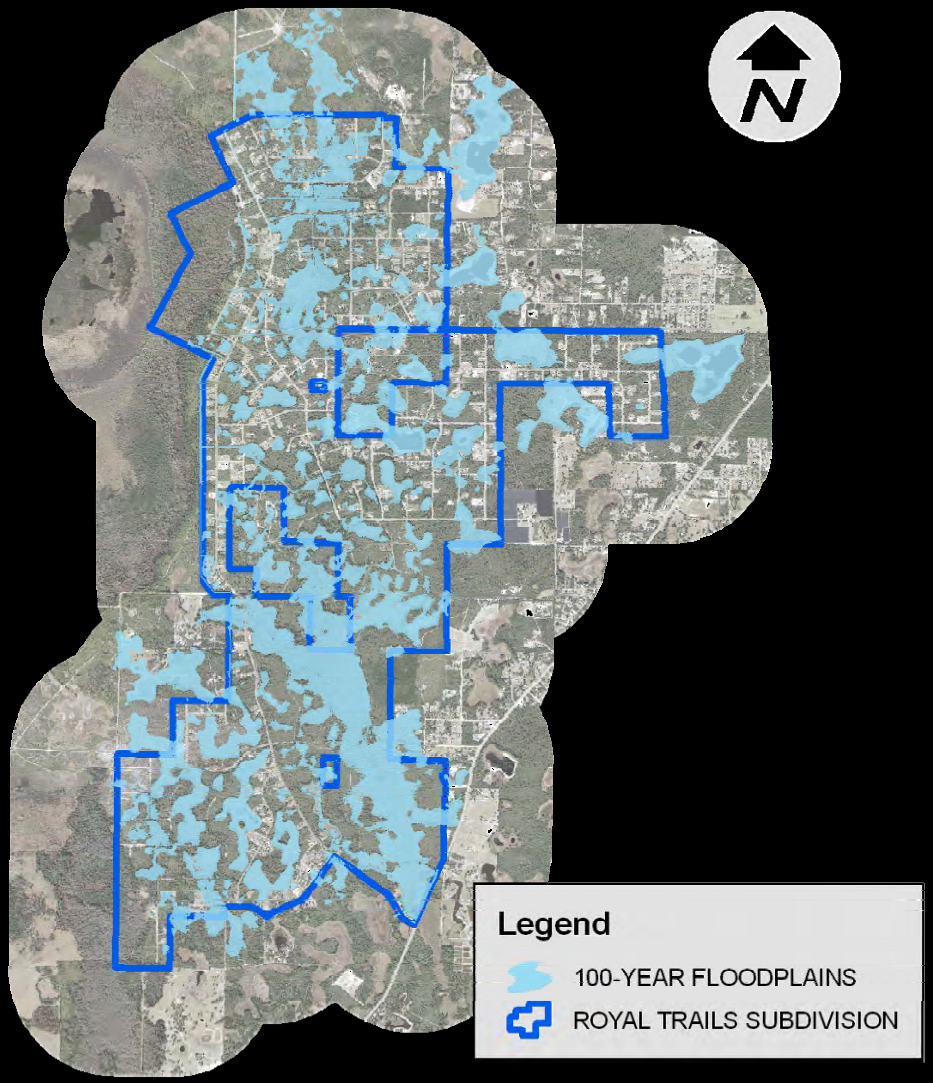


Flooding Assessment

- Floodplains
- Accurate Elevations

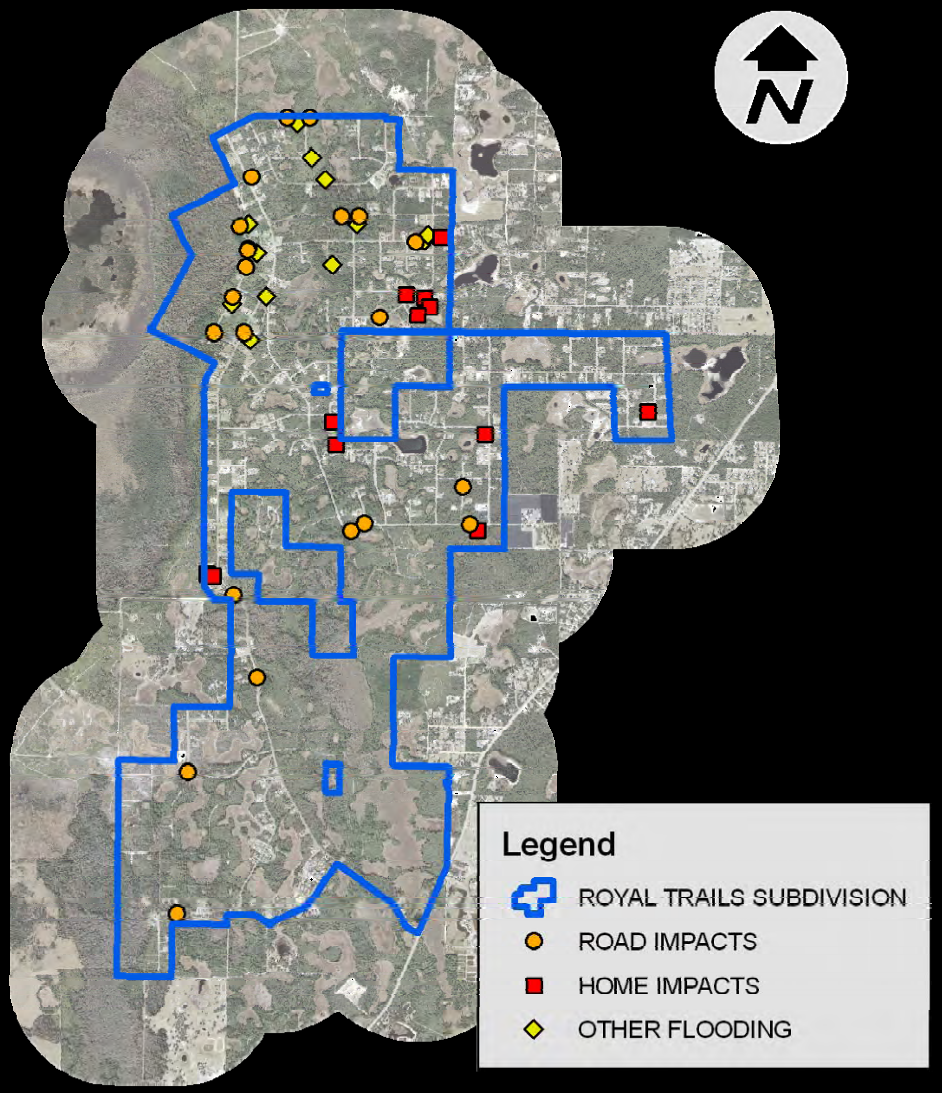
  Based On:

  - Detailed Data
  - Detailed Modeling



Flooding Assessment

- Modeled Flood Deficiencies
  - Roadway Locations That Appear to Overtop (22)
  - Homes That May Have Flood Impacts (12)
  - Other Flooding (sheds, septic tanks, car ports, etc.) That Appears to Occur (12)



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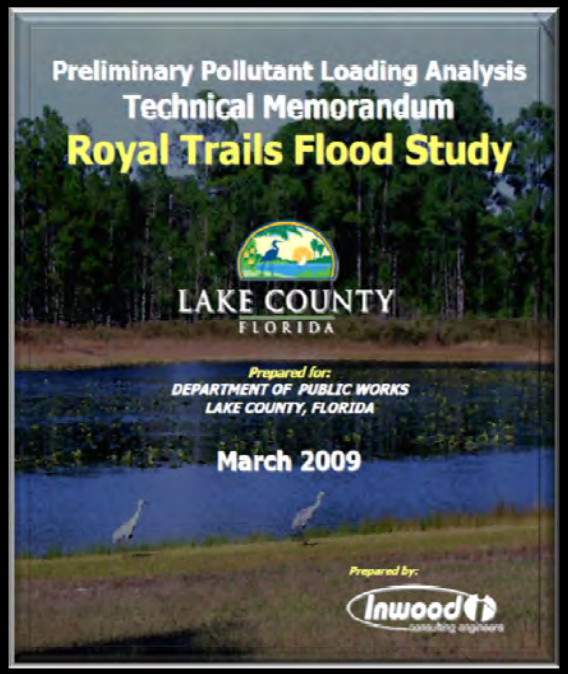
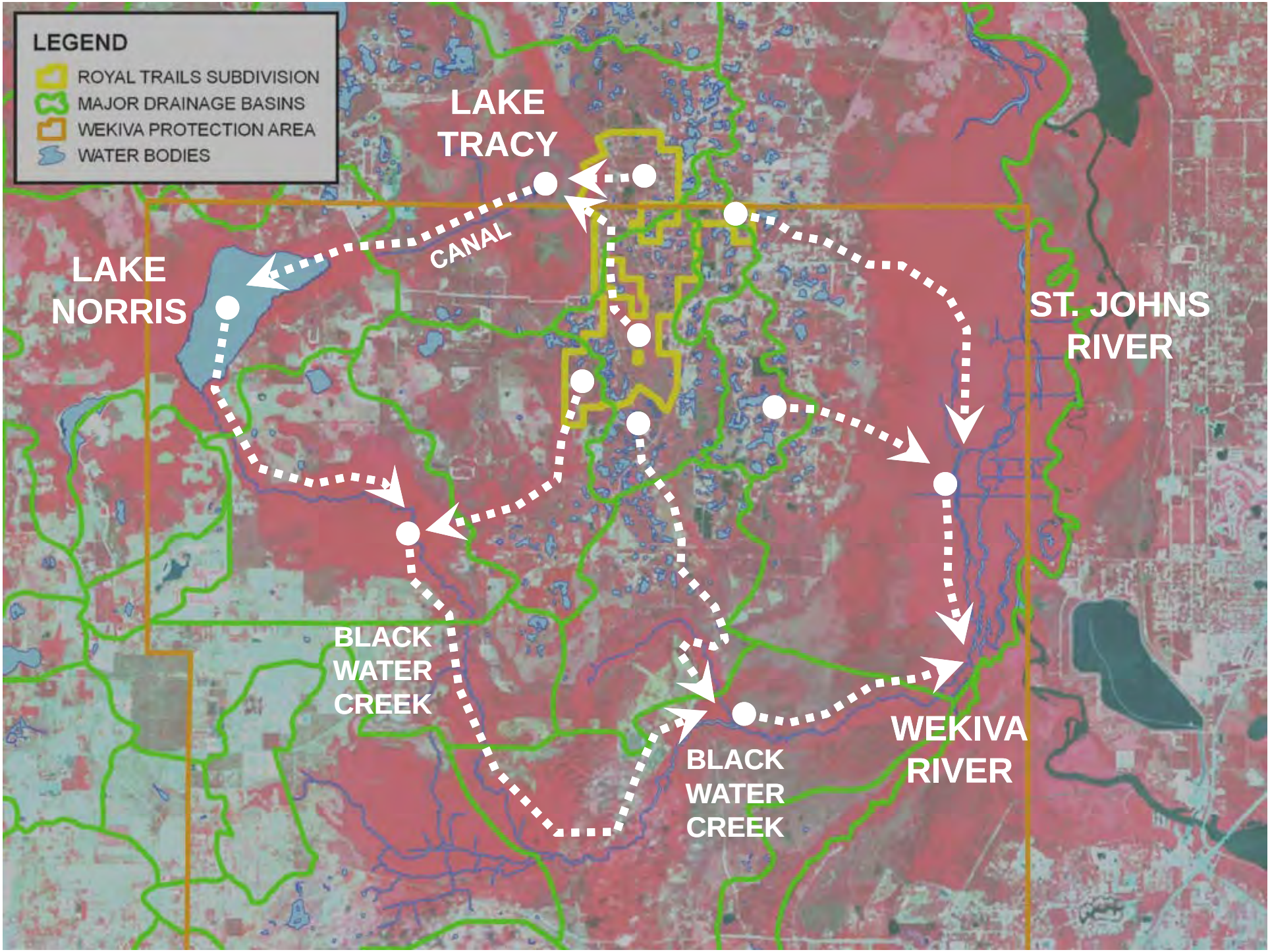
Water Quality Assessment

- Address Regulatory Requirements
  - State Designated Impaired Waters
    - Wekiva River
    - Black Water Creek
  - Wekiva Parkway & Protection Act
- Evaluate Pollutant Sources
    - Over Fertilizing Yards
    - Erosion from Construction
    - Illegal Discharges
    - Failing Septic Tanks
- Estimate Pollutant Loads from Stormwater Runoff
- Identify Improvement Opportunities
  - Best Management Practices (BMPs) for Pollutant Reduction
  - Water Quality Ponds
  - Swales




LEGEND
ROYAL TRAILS SUBDIVISION
MAJOR DRAINAGE BASINS
WEKIVA PROTECTION AREA
WATER BODIES
LAKE TRACY
CANAL
LAKE NORRIS
ST. JOHNS RIVER
BLACK WATER CREEK
BLACK WATER CREEK
WEKIVA RIVER

Presentation Overview

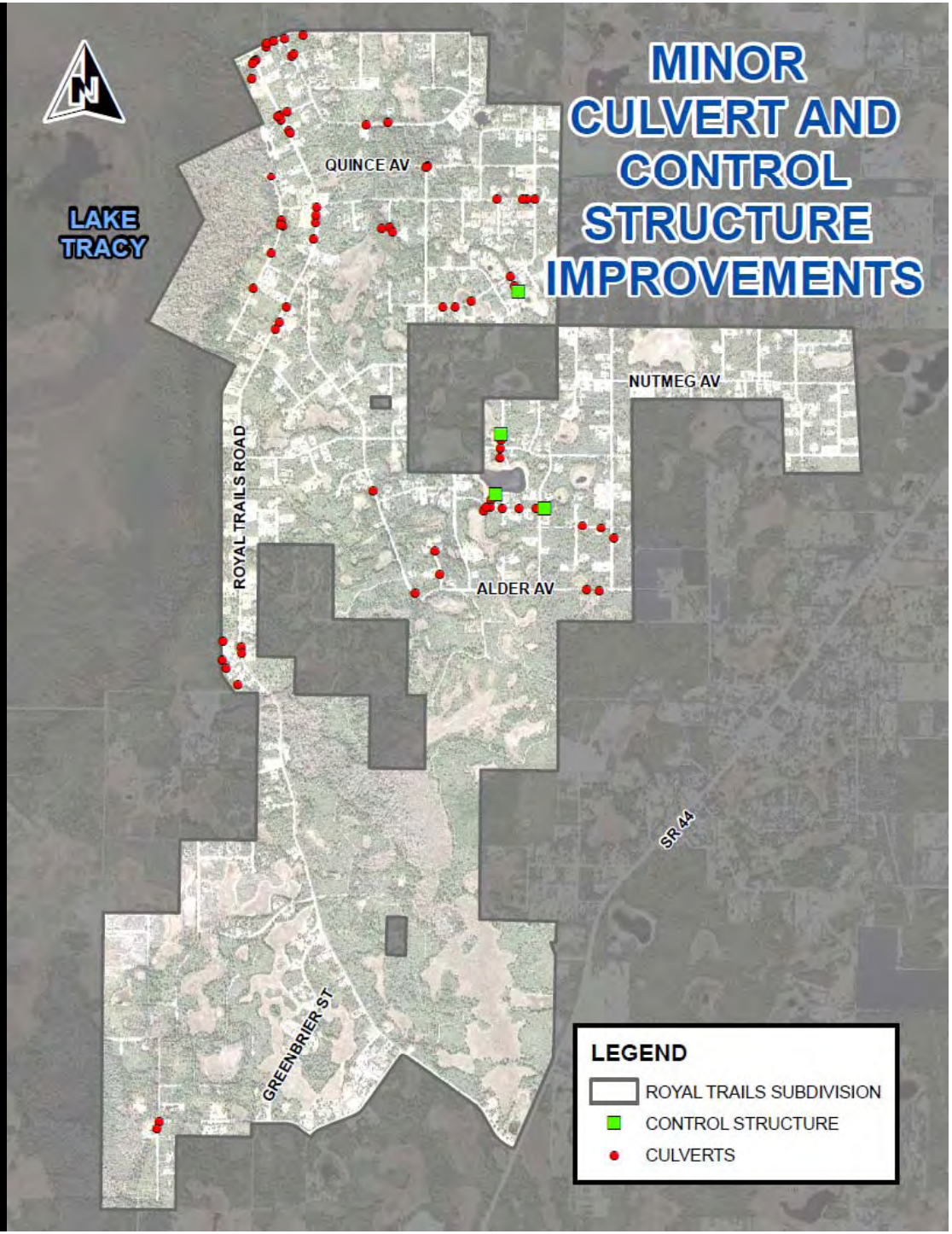
- Purpose of Study
- Review of Flood and Water Quality Assessment
- ✓ **Deficiency Correction Evaluation**
- Project Schedule & Milestones

Deficiency Correction Evaluation

- Address Minor and Major Drainage Infrastructure Deficiencies
- Conceptualize Corrective Improvements
  - Flood Control
  - Water Quality
  - Reduce Maintenance

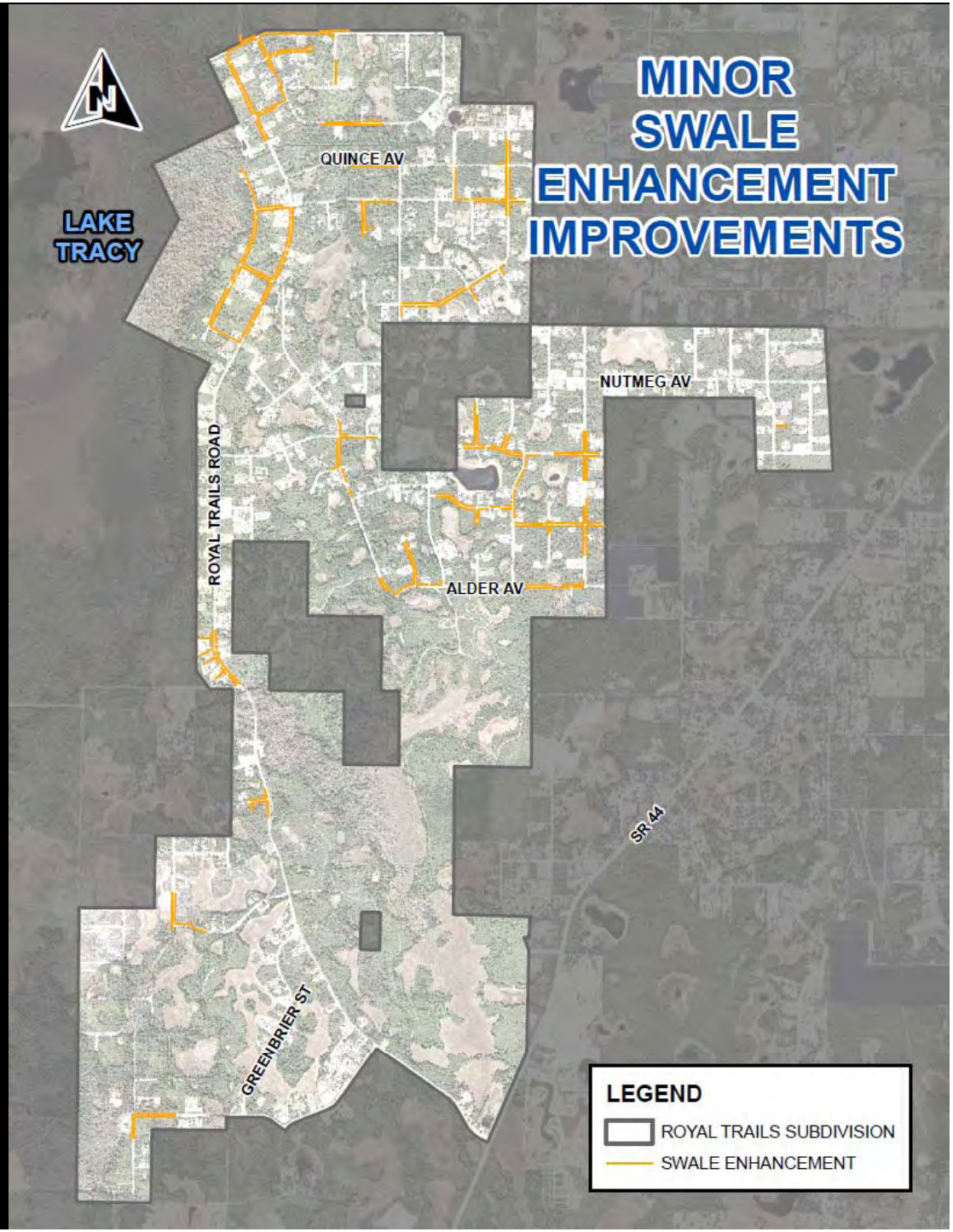
Minor Improvements

- Culvert Improvements
  - Improve Drainage
  - Control Flooding



Minor Improvements

- Swale Enhancement
  - Improve Conveyance
  - Water Quality Treatment



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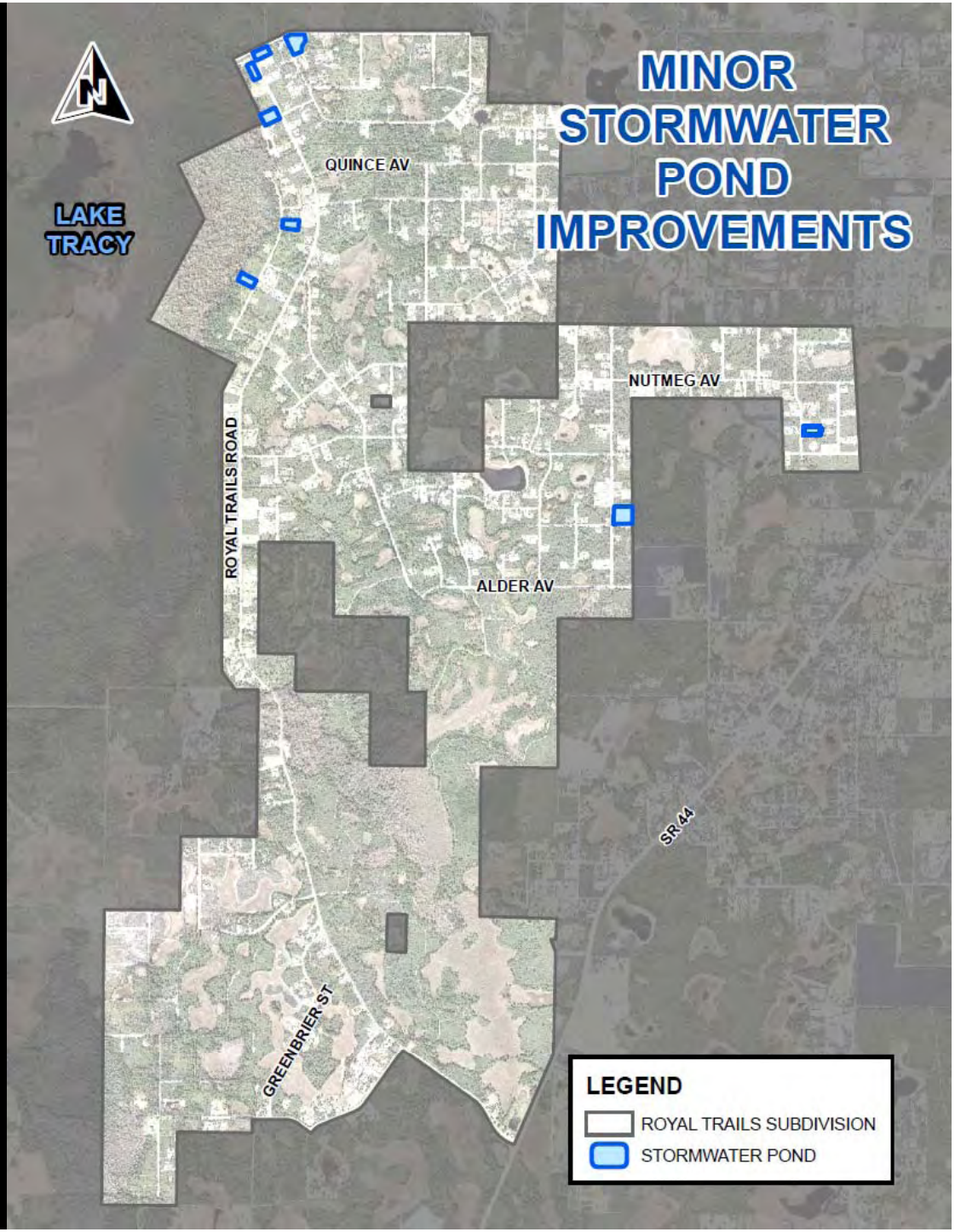
Minor Improvements

- Stormwater Ponds
  - Flood Attenuation
  - Water Quality Treatment



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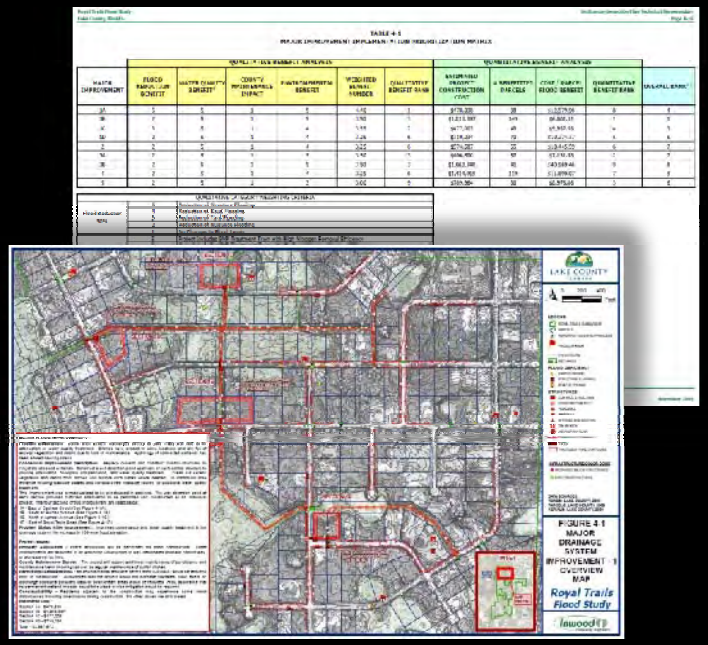
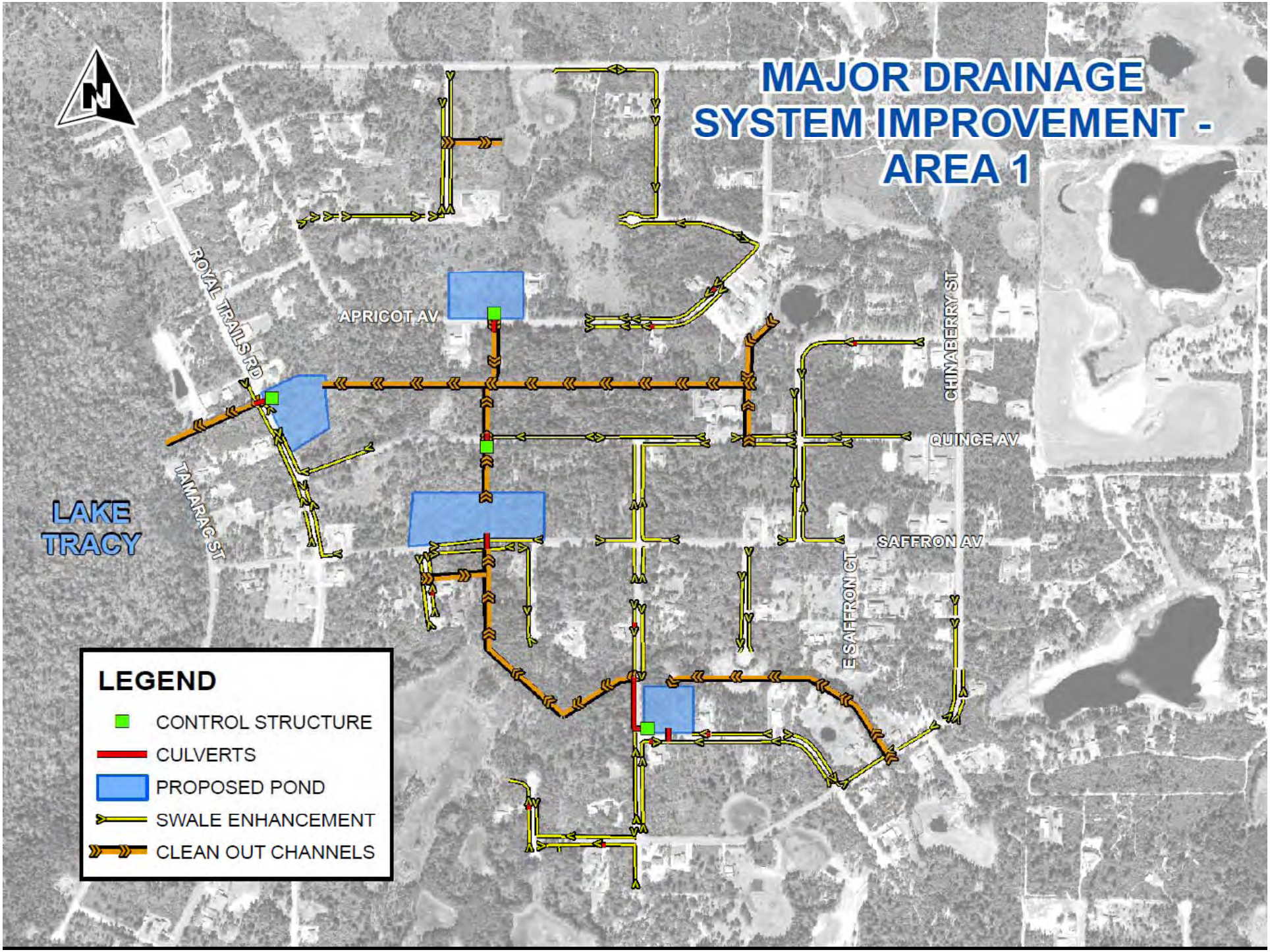
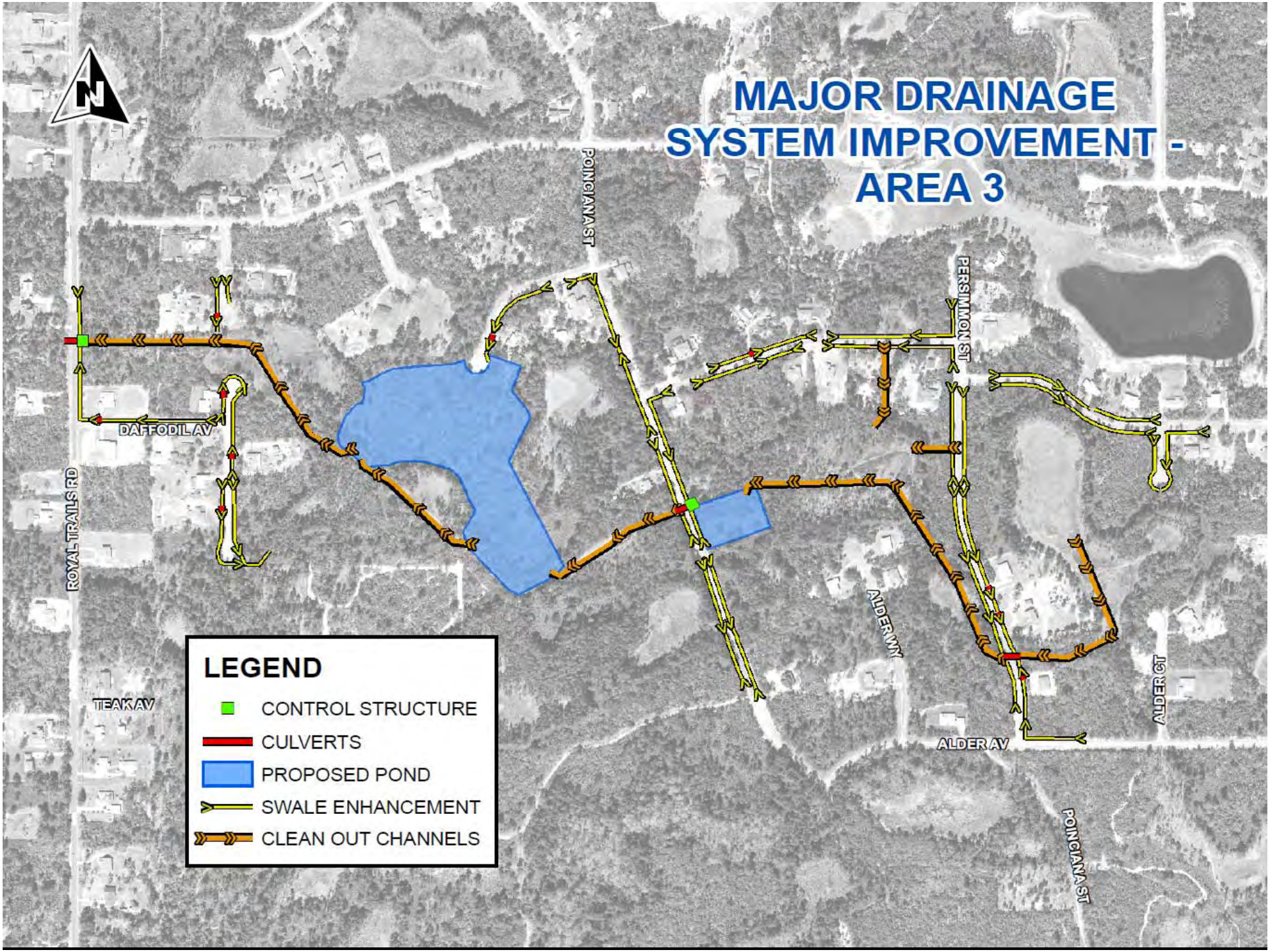
Major System Improvements

- Main Channel Improvements
  - Clean Out Debris
  - Improve Grading for Better Conveyance
- Control Structure Replacement
  - Improve Wetland Hydrology
  - Manage Floodplains
- Stormwater Ponds
  - Water Quality Treatment
  - Flood Storage
  - Storm Attenuation




MAJOR DRAINAGE SYSTEM IMPROVEMENT - AREA 1
N
APRICOT AV
ROYAL TRAILS RD
TAMARAC ST
CHINABERRY ST
QUINCE AV
SAFFRON AV
E SAFFRON CT
LAKE TRACY
LEGEND
CONTROL STRUCTURE
CULVERTS
PROPOSED POND
SWALE ENHANCEMENT
CLEAN OUT CHANNELS


MAJOR DRAINAGE SYSTEM IMPROVEMENT - AREA 3
N
POINCIANA ST
PERSIMMON ST
DAFFODIL AV
ROYAL TRAILS RD
ALDER WY
ALDER CT
ALDER AV
TEAK AV
POINCIANA ST
LEGEND
CONTROL STRUCTURE
CULVERTS
PROPOSED POND
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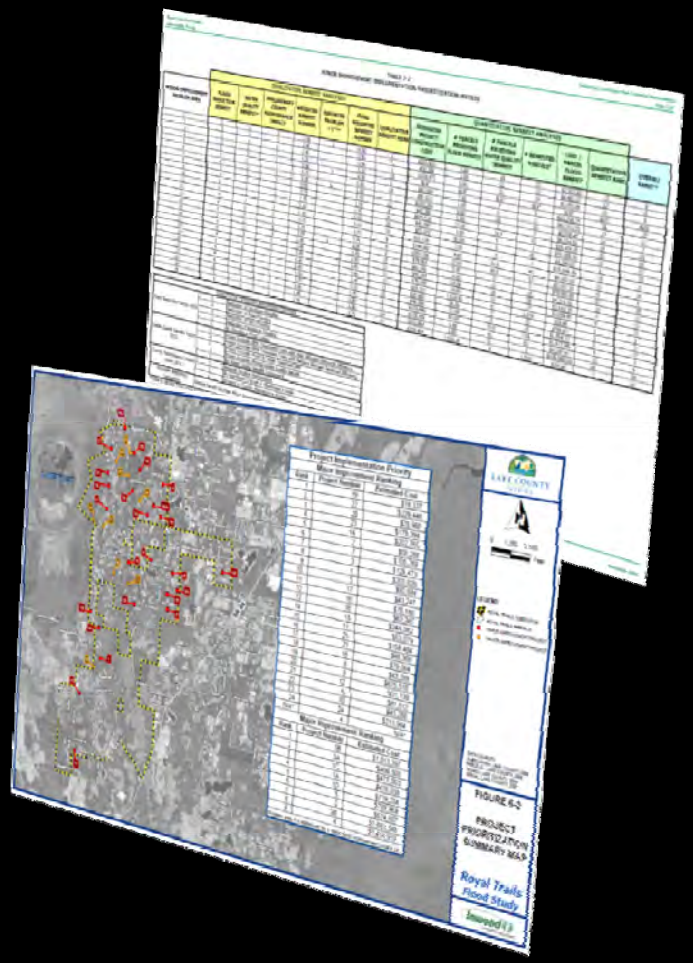
CLEAN OUT CHANNELS

Implementation

- Prioritized Project List
  - Flood Reduction
  - Water Quality
  - Cost Benefit
- Implementation as Funds Come Available in Future Years



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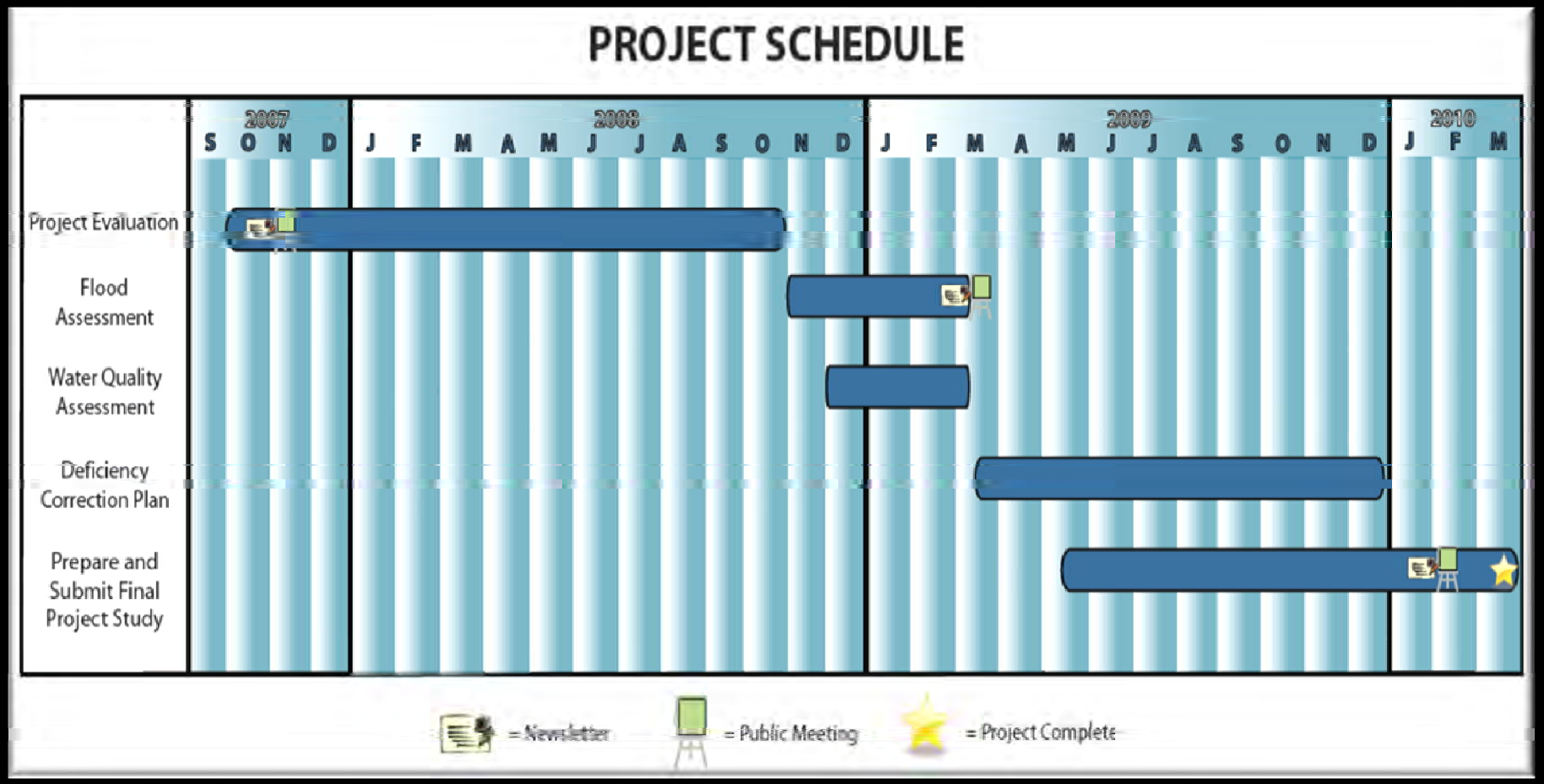
Project Schedule & Milestones



Floodplain Map Modernization

- FEMA Initiated Process in November 2009
- Royal Trails Results Provided to FEMA Consultant
- 2 to 2½ Year Process
- Public Comment Period To Be Determined

Additional Information

- Newsletters
- Project Fact Sheet
- Web Site

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City State Zip Code

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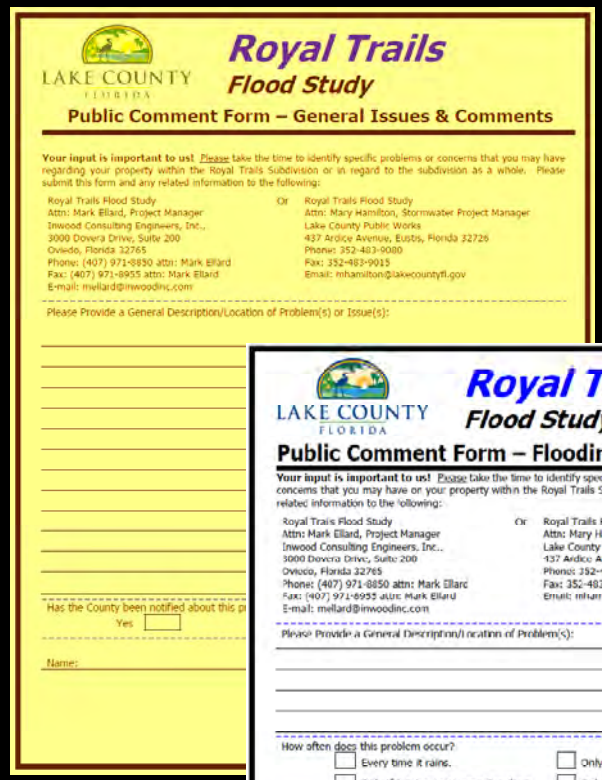

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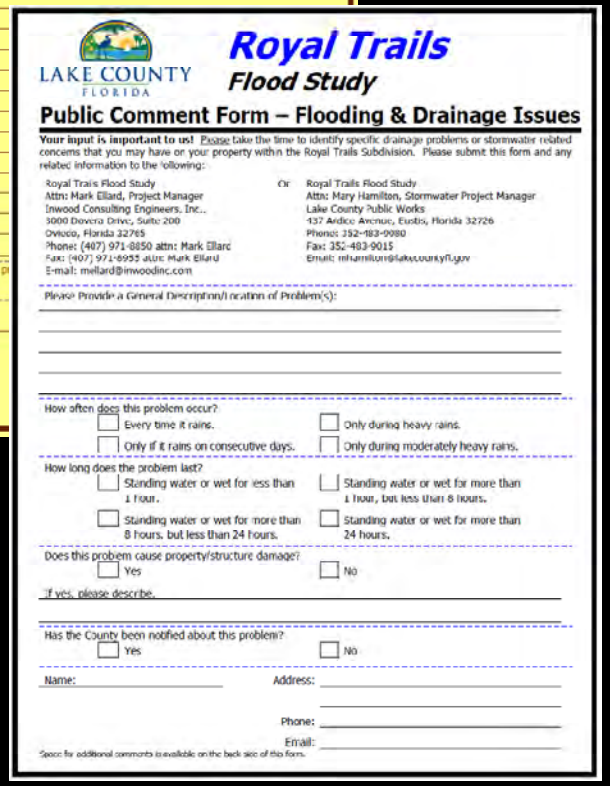

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ROYAL TRAILS
A DEED RESTRICTED COMMUNITY
THANK YOU !
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