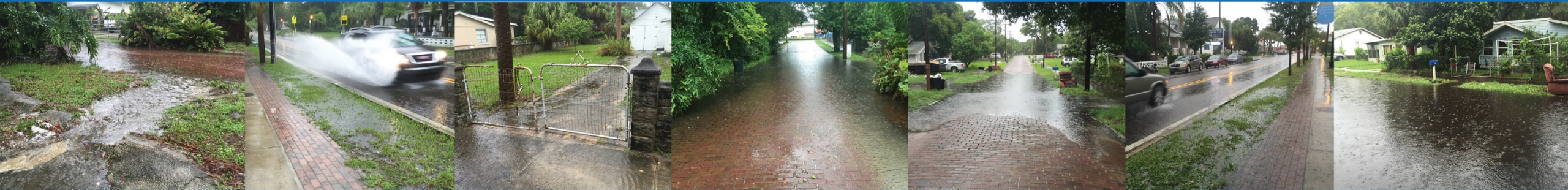




# Pent Street and Grosse Avenue

## Drainage and Roadway Improvements

Stormwater Action Plan No. 5



## Public Meeting

November 19, 2019

# Welcome & Introductions



- Sign-in and comment sheets
- Restrooms and exits
- Meeting agenda and timeline
- Meeting goals / expectations
  - Provide project information
  - Answer questions
- November 16, 2017 – First Public Meeting

## AGENDA

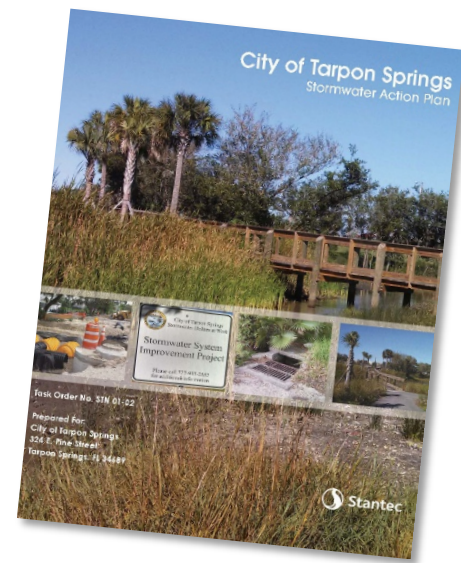
1. Welcome & Introductions
2. Project Understanding
3. Existing Conditions
4. Proposed Improvements
5. Funding & Partnership
6. Schedule
7. Construction Phasing



# Project Understanding: Project History and Intent

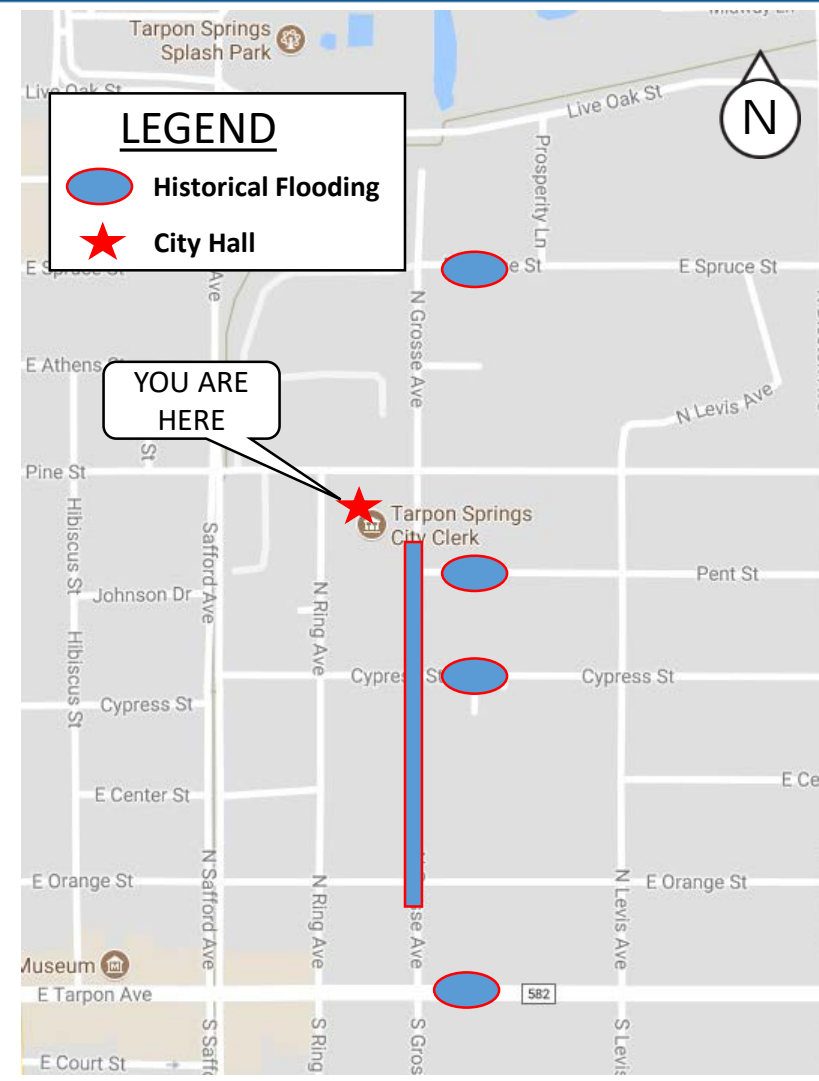
- **Project History**

- 1992 Master Drainage Study
- 2009 Stormwater Action Plan (Phase 1)
- 2010 Stormwater Action Plan (Phase 2)
  - Development of City's Stormwater Capital Improvement Program (CIP)
- 2016 Design & Permitting



- **Project Intent**

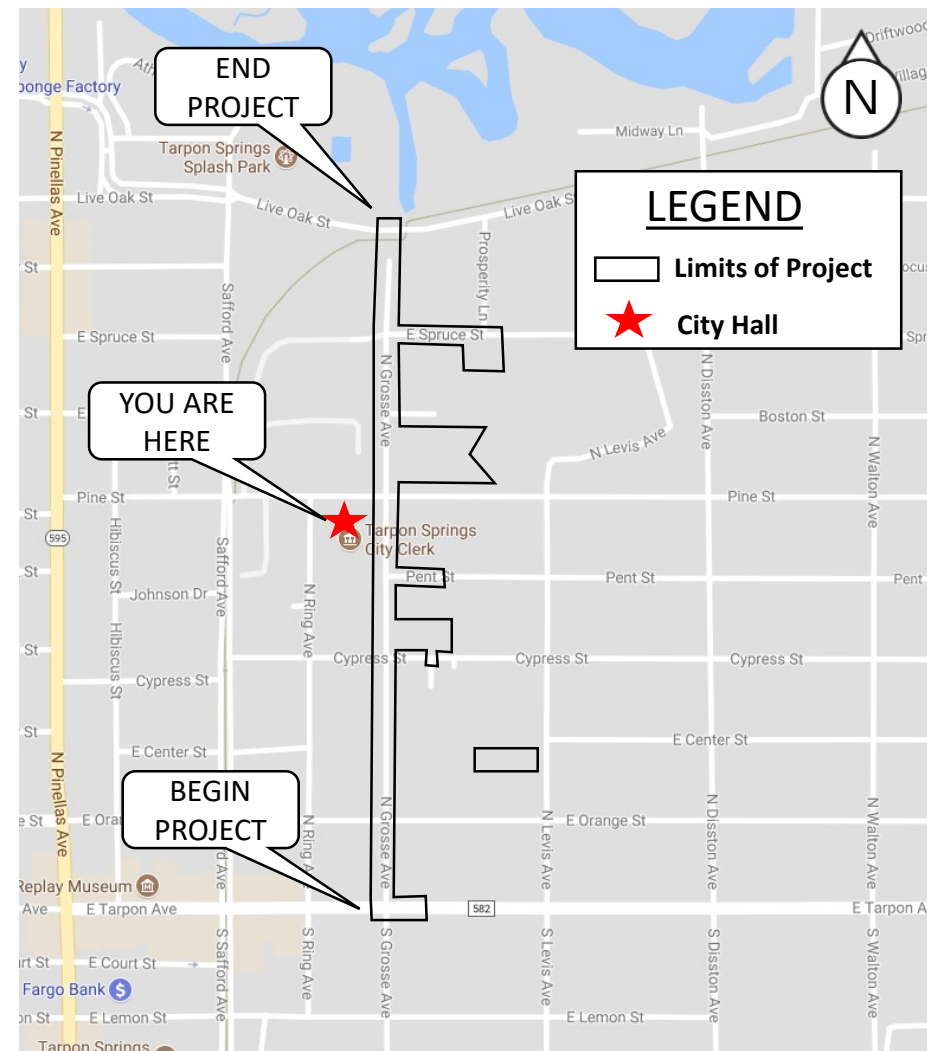
- Reduce roadway and private property flooding extents, elevation, and duration
- Provide water quality improvements





# Project Understanding: Project Location

- Tarpon Avenue (Hurricane Evacuation Route); east of Grosse Avenue
- Grosse Avenue; Tarpon Avenue to Live Oak Street
- Cypress Street; Northeast corner of Cypress Street / Grosse Avenue intersection
- Pent Street; east of Grosse Avenue
- Tarpon Springs Elementary School
- E. Spruce Street; east of Grosse Avenue
- Live Oak Street



# Existing Conditions

- Wet Field Review
- 24-hour rainfall = 2.35 inches
- 88% of West Central Florida rainfall events exceed 1.0 inch (NOAA)



Tarpon Ave. Facing East



Orange St. & Grosse Ave. Facing North



Grosse Ave. North of Orange St., Facing North



Grosse Ave. & Cypress St., Facing Northeast

# Existing Conditions



Cypress Ave.; East of Grosse Ave., Facing East



Grosse Ave. & Pent St., Facing North

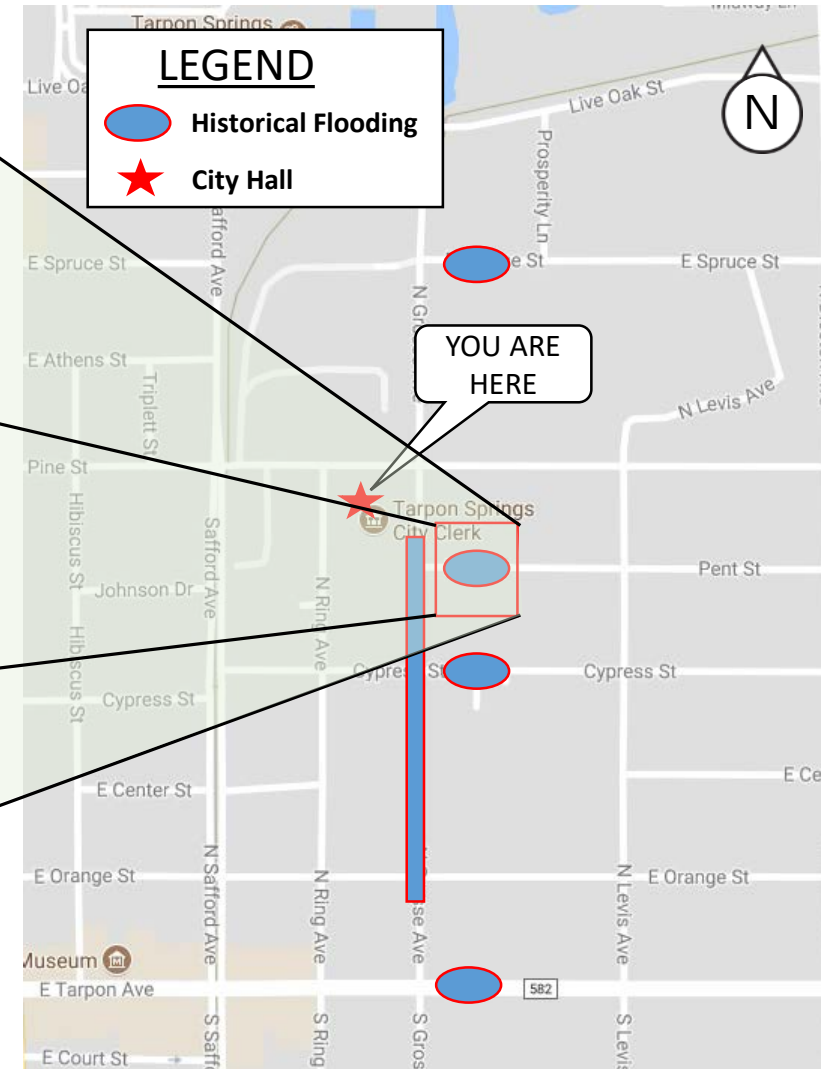


Pent St. East of Grosse Ave., Facing Southeast



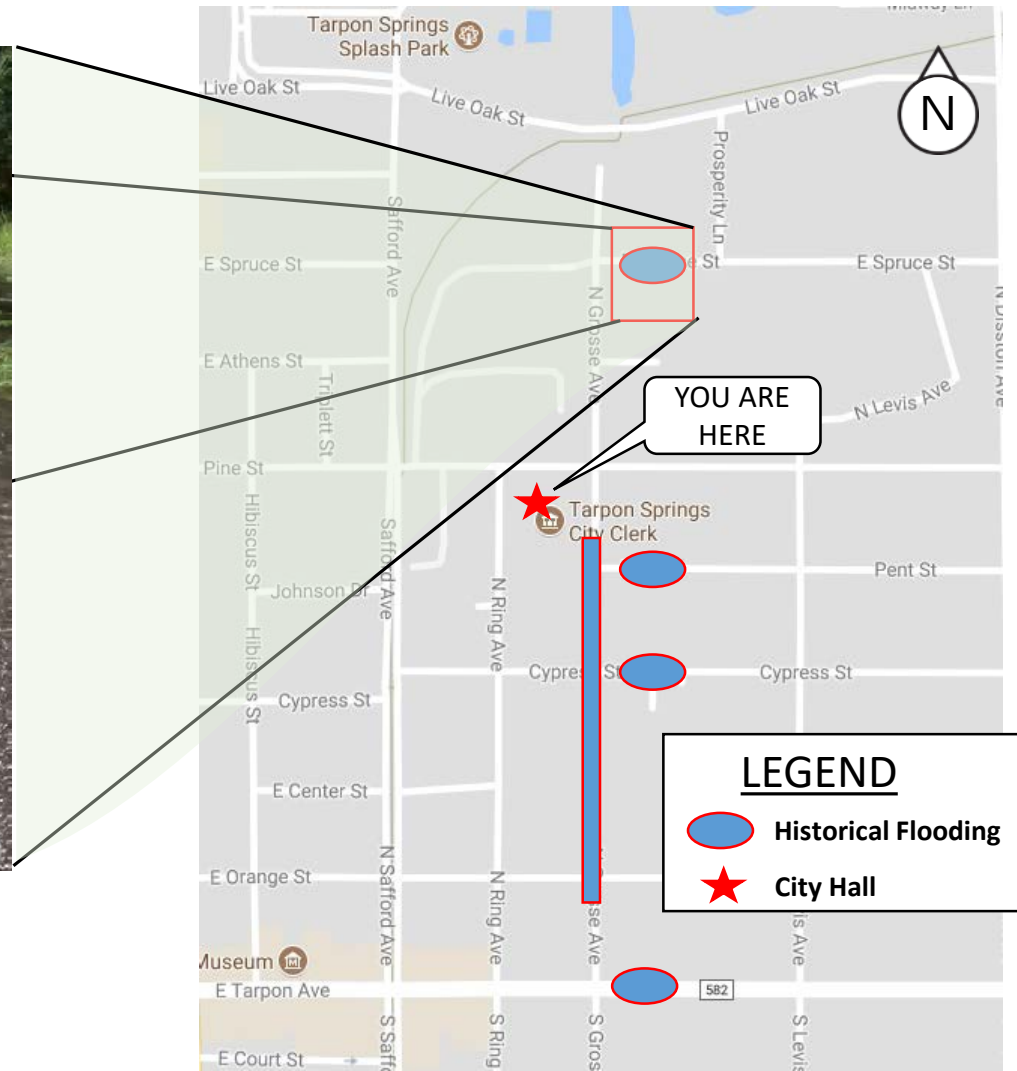
Pent St. East of Grosse Ave., Facing West

# Existing Conditions



Pent Street; East of Grosse Avenue

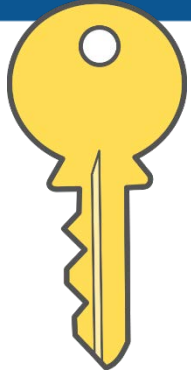
# Existing Conditions



Spruce Street; East of Grosse Avenue

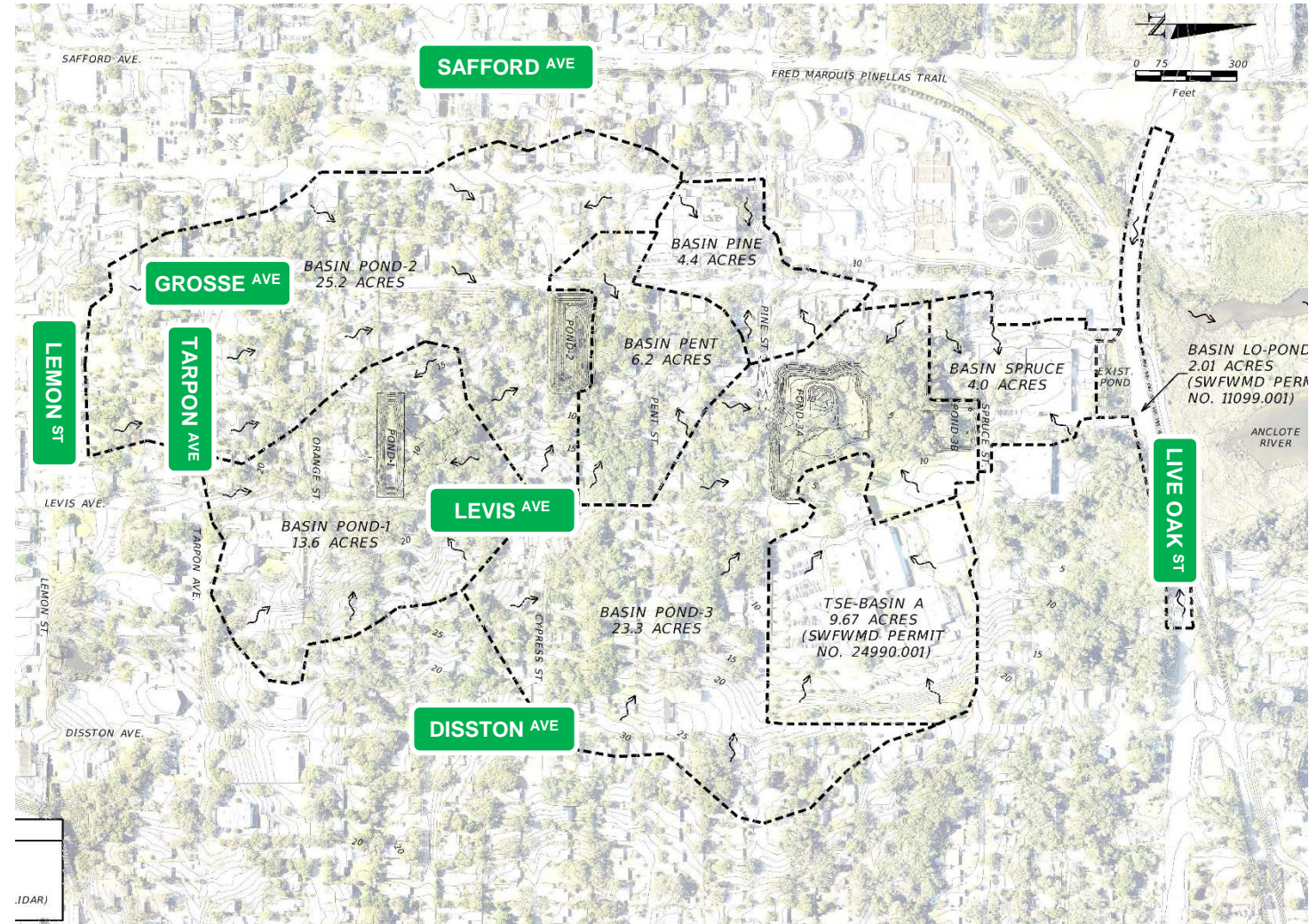


# Existing Conditions

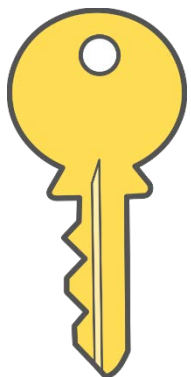


## Key Issues

- Large developed watershed (+88 acres) = high runoff
- 1 inch of rainfall over 88 acres = 2.3 million gallons of water
- 5.3 feet on a football field

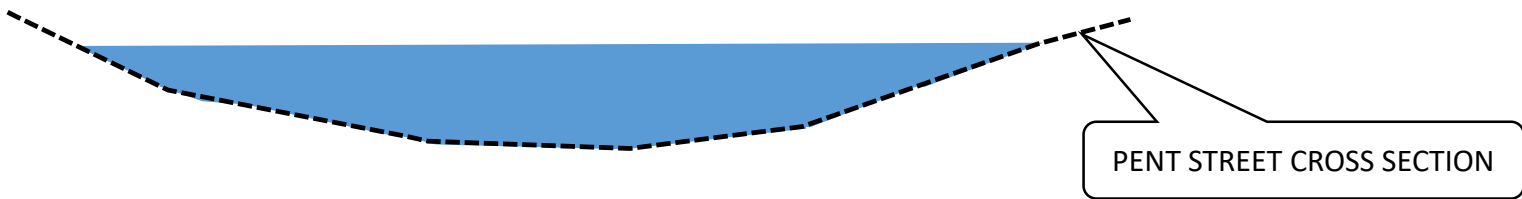
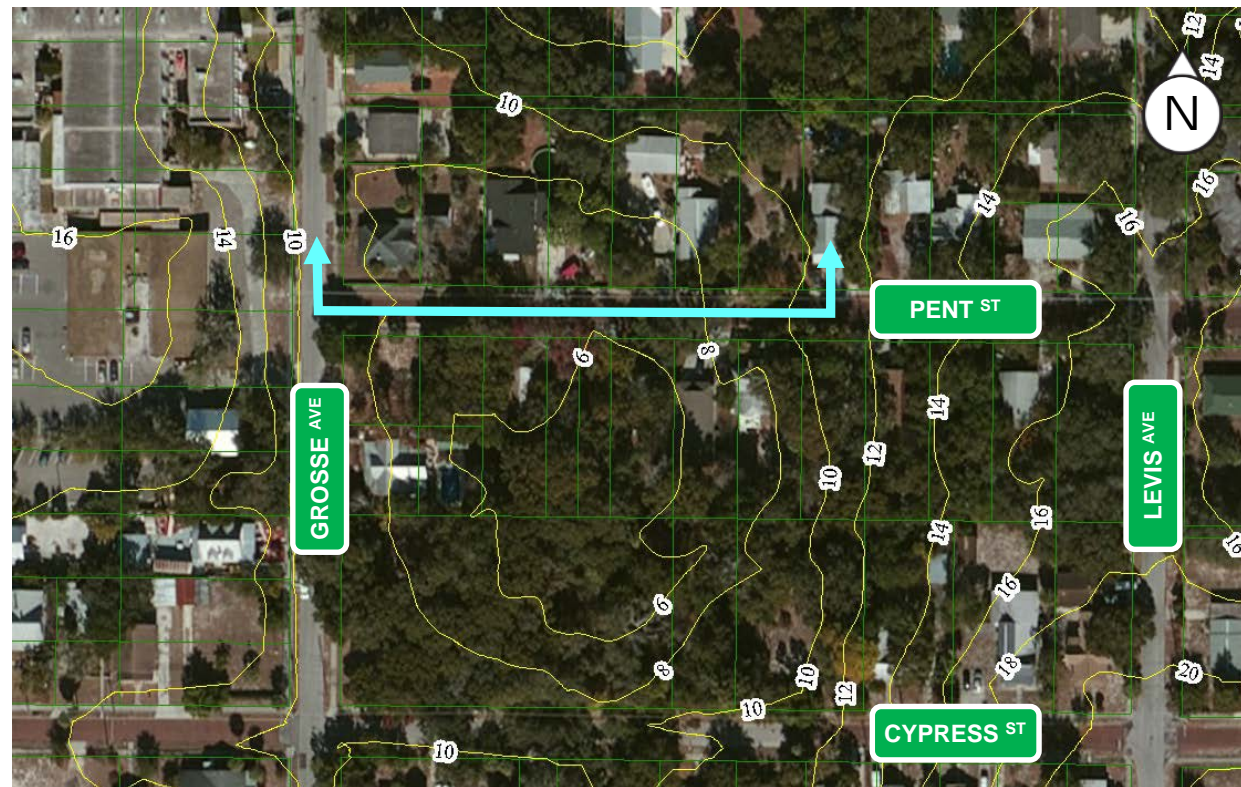


# Existing Conditions

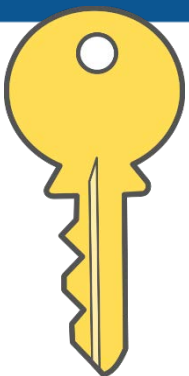


## Key Issues

- Unique topography
- No stormwater infrastructure
- Flat roadway (Grosse Avenue)



# Proposed Stormwater Improvements

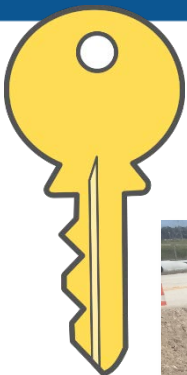


## Key Resolutions

- Install stormwater infrastructure
- Create storage (stormwater ponds)
- Reconstruct Grosse Avenue Profile (E. Orange St. – Pine St.)



# Proposed Stormwater Improvements



Key Resolution – Install Stormwater infrastructure



Stormwater manhole and pipe

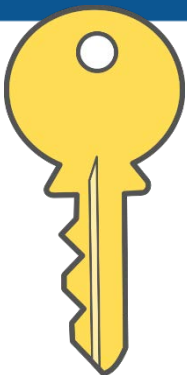


Roadside inlet



Ditch bottom inlet (Riverside Drive – Tarpon Springs)

# Proposed Stormwater Improvements



Key Resolution – Create storage (Stormwater ponds)

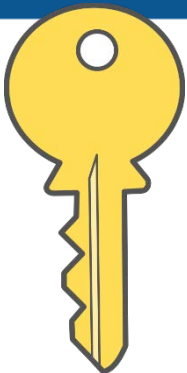
- Pond 1: Levis Ave. – Expand existing
- Pond 2: Cypress St. – New pond
- Pond 3A: Pine St. – Expand existing
- Pond 3B: Spruce St. – New pond



Reduce flooding AND improve water quality!!



# Proposed Stormwater Improvements



## Key Resolution – Reconstruction of Grosse Avenue Profile (E. Orange St. – Pine St.)



MATCH EXISTING

PROPOSED PROFILE

MATCH EXISTING

EXISTING PROFILE

### Existing Profile

- Flat = water ponds; unsafe (hydroplaning)

### Proposed Profile

- Sloped = water drains; safer



# Proposed Utility Improvements

## Sanitary Sewer Improvements

- Existing 8-inch clay gravity sewer
  - Brittle
  - If cracked, allows infiltration and roots (blockage)
- Proposed 8-inch PVC gravity sewer
- 3 new sanitary manholes

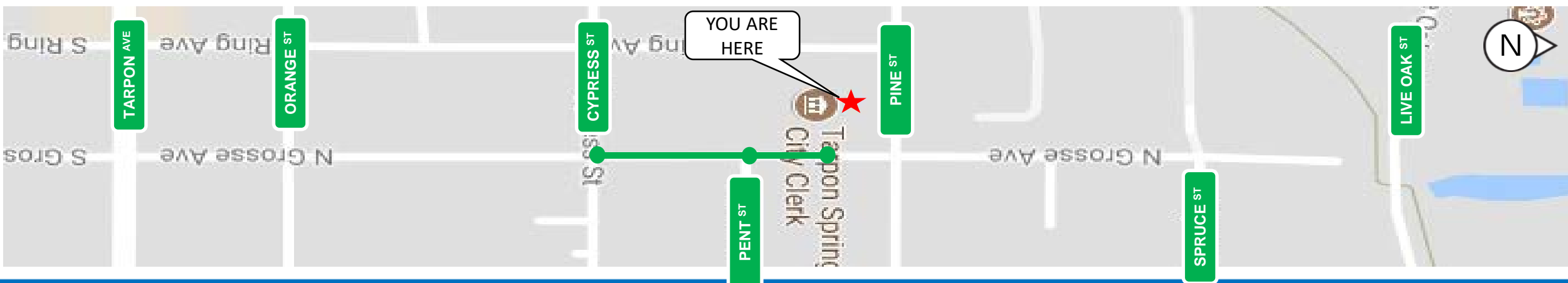


(Not actual photograph of existing 8-inch sanitary line)

**LEGEND**

— 8-inch sanitary line

★ City Hall





# Partnership

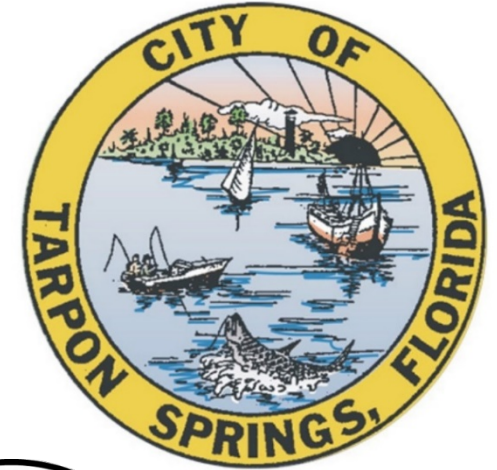
Pinellas County School Board Partnership  
KEY partnership for project's success!!!



Southwest Florida Water Management District



# Funding



Fee ID	Fee	Funding Source
Design & Permitting	\$189,449	City of Tarpon Springs Streets & Stormwater
Design & Permitting	\$65,255	City of Tarpon Springs Water Utility
Total	\$254,704	City of Tarpon Springs

Construction ID	Estimated Fee
Construction (Road & Stormwater)	\$2,736,800
Construction (Utilities)	\$423,145
Total	\$3,159,945



Southwest Florida Water Management District Grant = \$1,368,400

# Current Schedule



TASK	SCHEDULE
Finalize Design	October 2019
Constructing Bidding	December 2019
Construction Period	February 2020 – April 2021

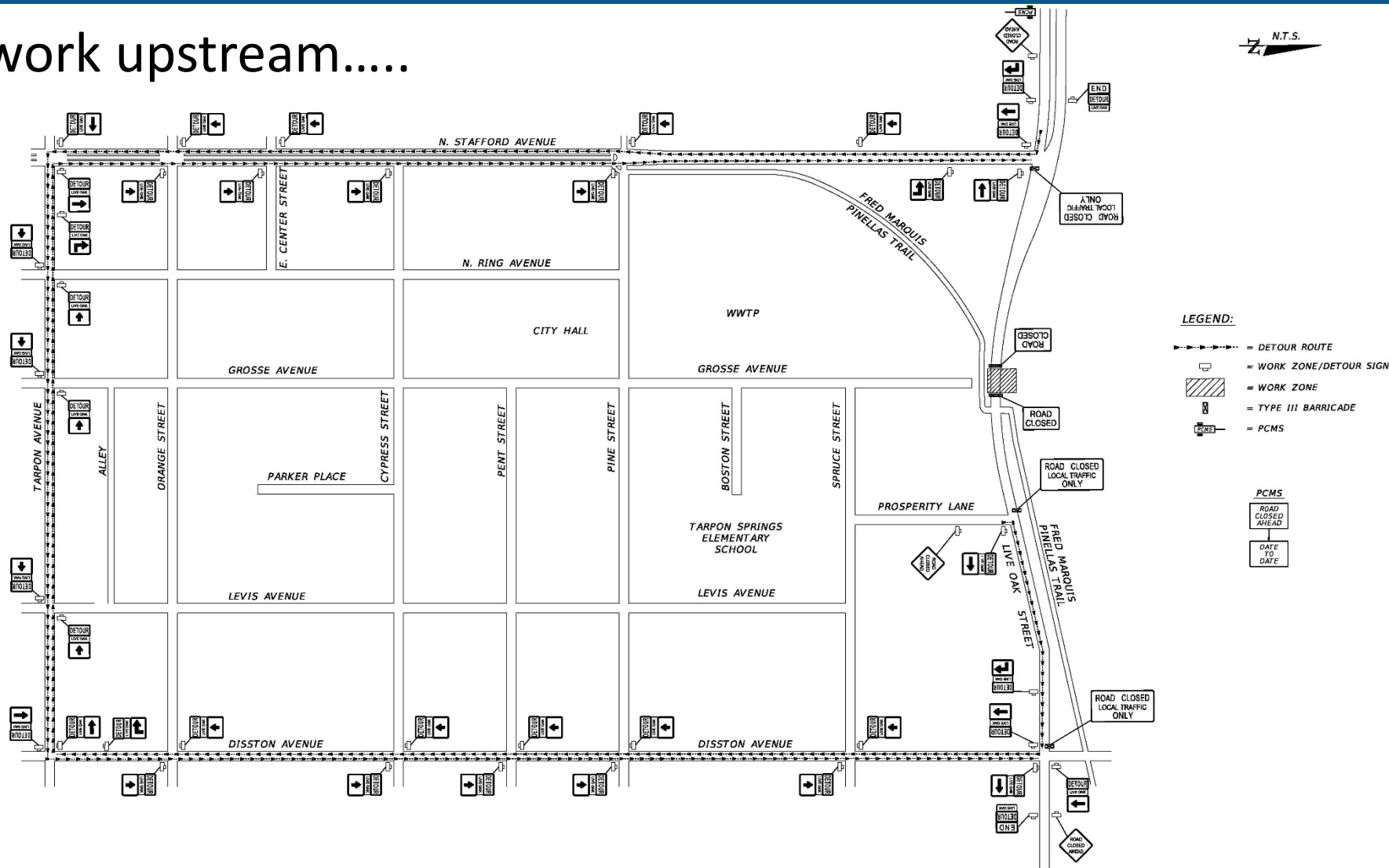




# Construction Phasing – Live Oak Street

Start downstream and work upstream.....

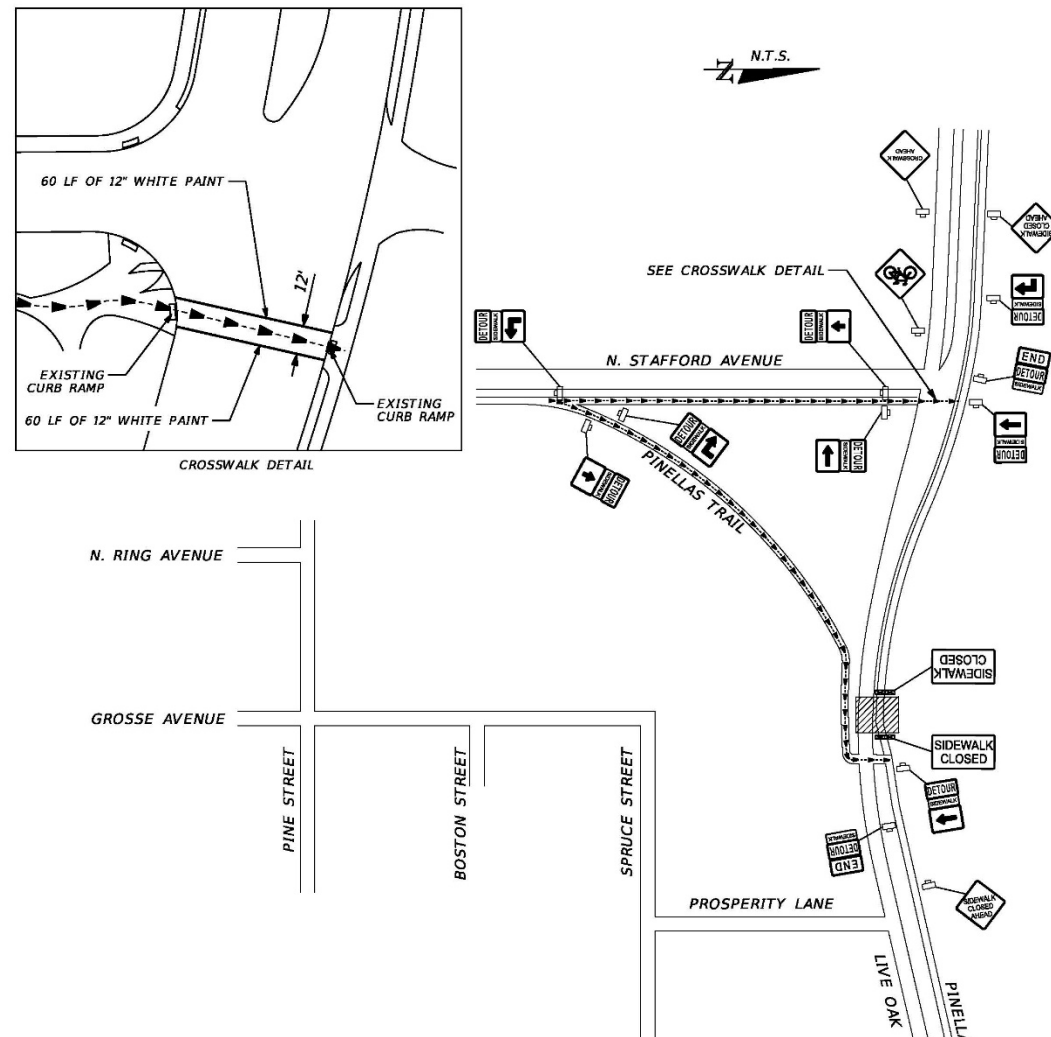
- Live Oak Street Road Closure
- Concrete box culvert construction at Live Oak Street



# Construction Phasing – Live Oak Street

## Phase I - Pedestrians

- Live Oak Street Road Closure
- Pinellas Trail remains open

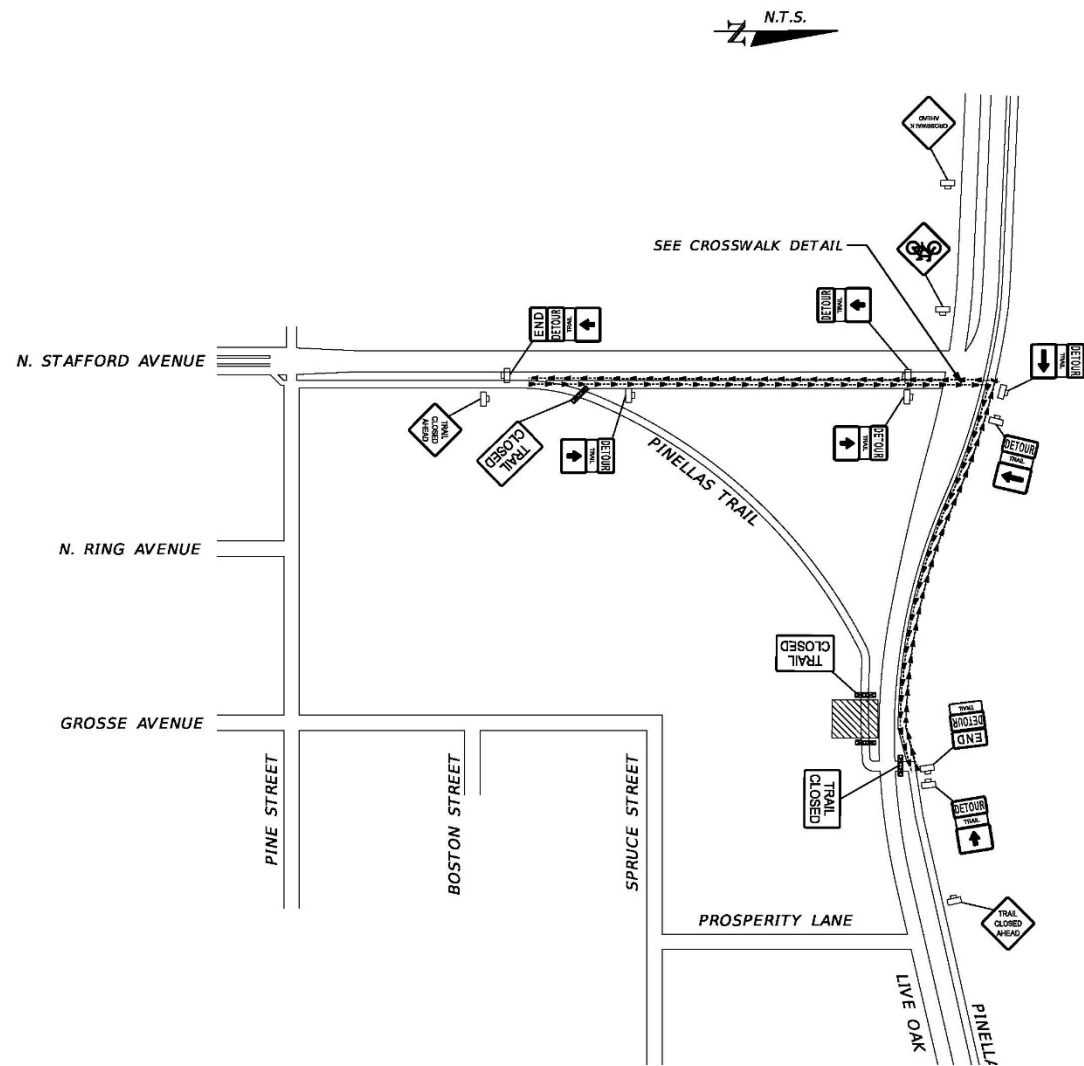




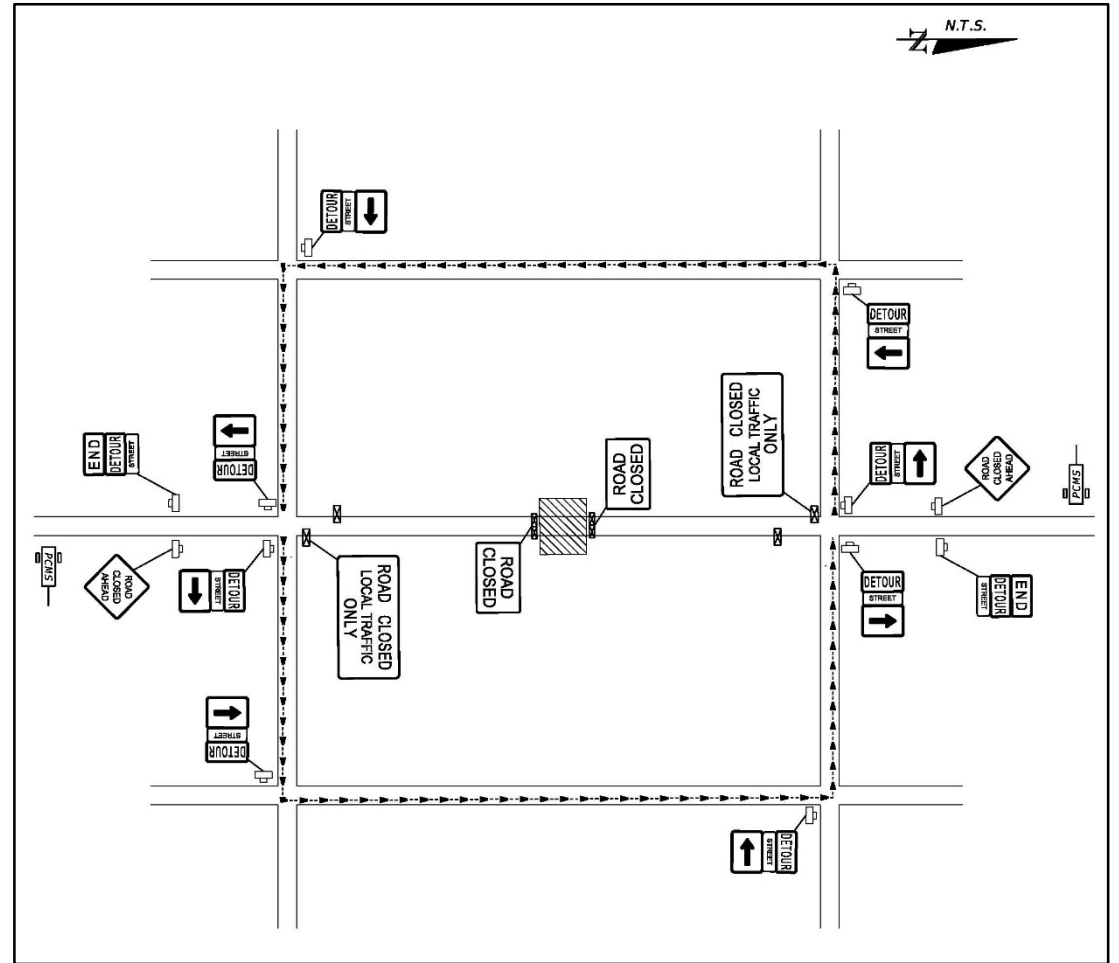
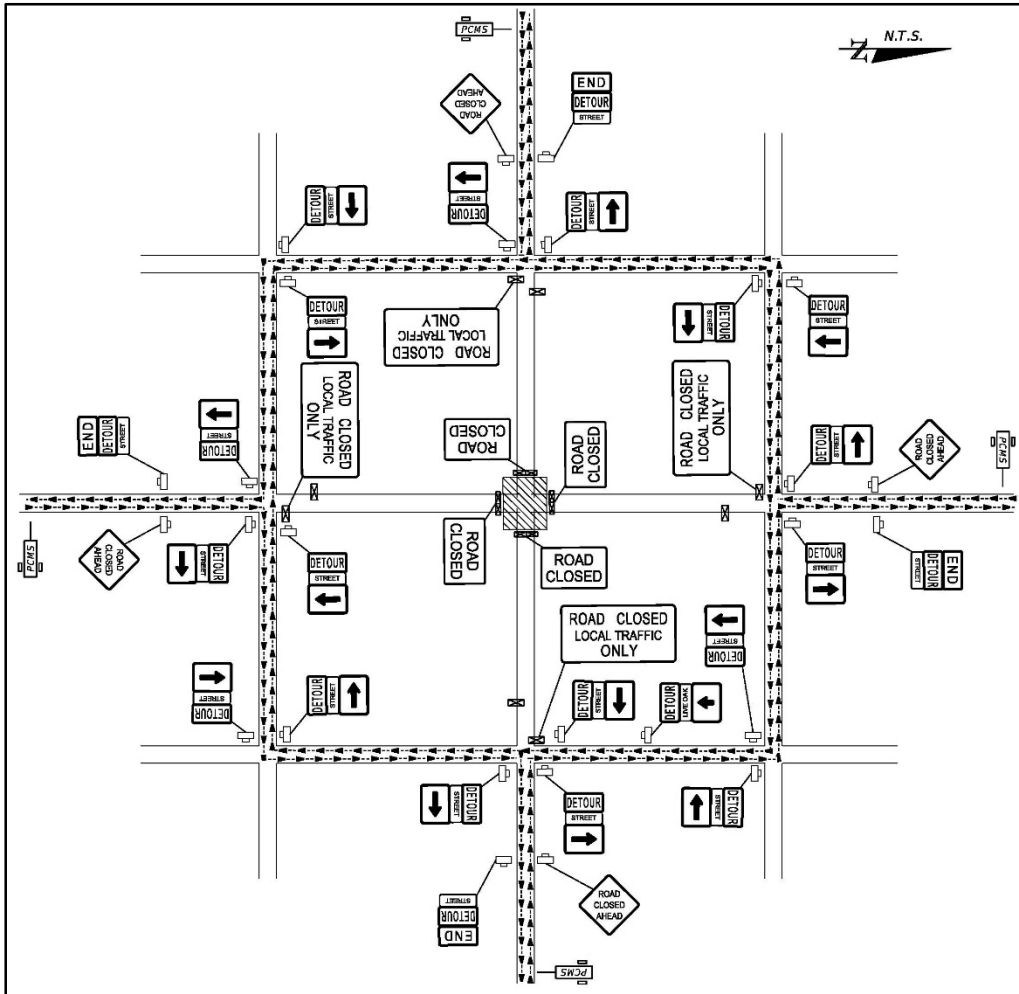
# Construction Phasing – Live Oak Street

## Phase II - Pedestrians

- Live Oak Street Road Closure
- Pinellas Trail remains open



# Construction Phasing – Grosse Avenue



Intersection Construction

Mid-Block Construction



# Thank You!

**City of Tarpon Springs Project Manager:**

**Anthony “Tony” Mannello – Streets and Stormwater Supervisor**

**727-942-5610**

<https://www.ctsfl.us/flood%20questionnaire.htm>

**SWFWMD Project Manager:**

**Robert McDonald, PE**

**352-796-7211**

**ICON Consultant Group, Inc. Project Manager:**

**Bryan Anderson, PE**

**813-962-8689**

Questions?

