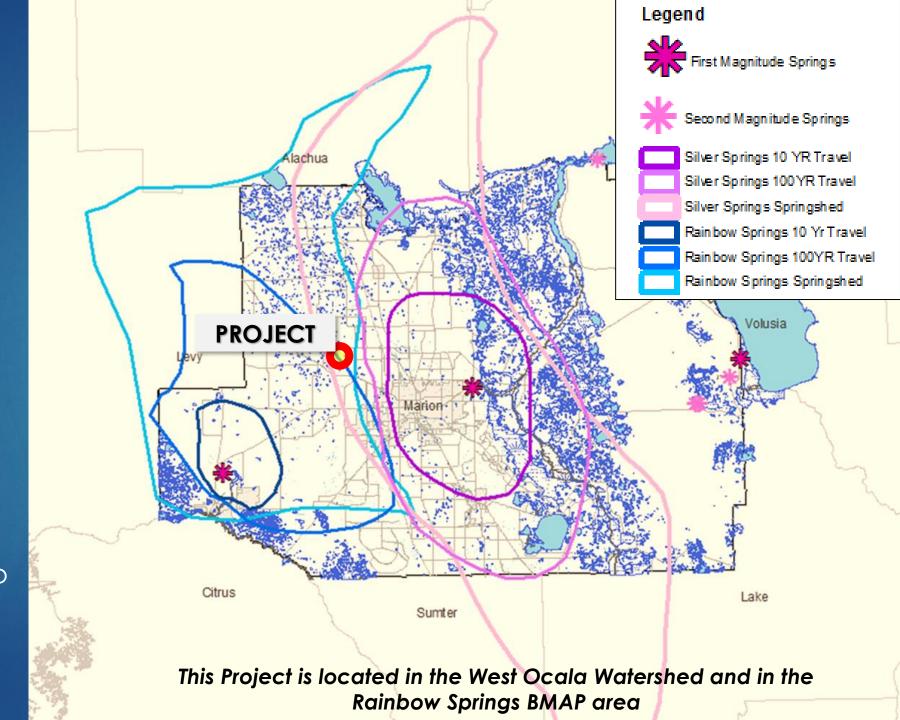




FY2023 FDEP SPRINGS FUNDING PROJECTS

### NW 44<sup>th</sup> Ave Innovative Stormwater Retrofit

- This project is part of an ongoing Program of retention pond improvements
- Projects are identified in Marion County's
   Watershed Improvement Plans
- ► The Program is targeted to the BMAP areas of Marion County



#### Concept Plan from West Ocala WMP (2015)



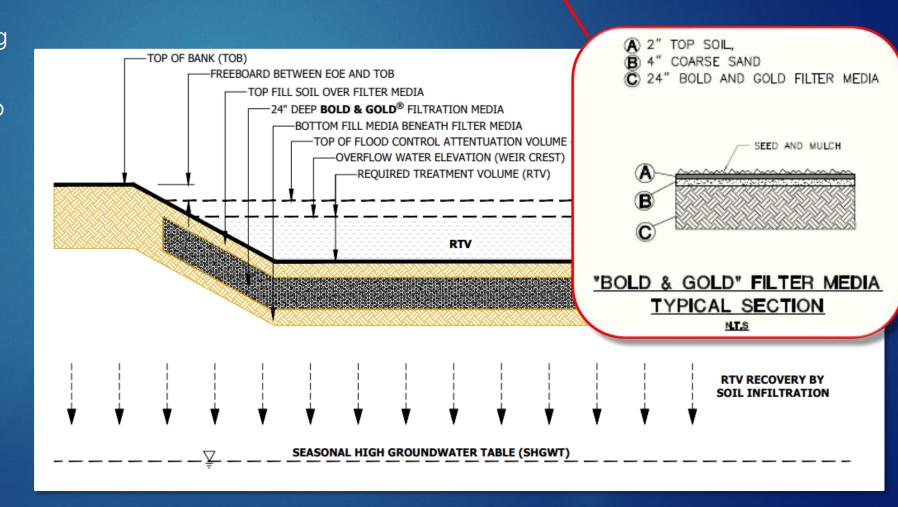
## Main Project Objectives

- Support the BMAP goals by reducing nitrogen loading in the Rainbow Springs BMAP
- Project is identified in the West Ocala Watershed Management Plan (WMP)
- Increase treatment of infiltrated runoff above existing base level (approx 5% removal; 3.90 lb TN/yr)

# Main Project Design Elements

DRA cell removal efficiency is based on 24" layer **Bold & Gold** soil amendment

- Modification of the existing DRA bottom x-section.
- Create a Treatment Cell to capture initial 0.32 inches of runoff entering the pond.
- Increase TN removal rate of <u>infiltrated</u> runoff:
  - from **3.90** lbs TN/yr
  - to 54.51 lbs TN/yr
- Provides 46.3% treatment to catchment area



### **Project Timeline**

- Design (01/03/2022 09/30/2022)
  - ► Survey & 30% Design 3 months
  - ► 60% Design 2 months
  - ▶ 90% Design 2 months
  - Proposed Final Design & Permitting 2 months
- Request for Bids (10/03/2022 02/13/2023)
  - RFB Advertisement
  - ▶ RFB Evaluation and Award 3 months
  - ▶ NTP to Contractor 1.5 months
- Construction (02/27/2023 06/02/2023)
  - ▶ Commence Construction
  - Substantial Completion 2 months
  - ► Construction Complete 1 months

### **Project Funding**

Total Project Cost = \$814,761 Construction Cost = \$754,761

- MCU Share (Design + 50% Construction)
  - Prior Funding = \$0
  - ► FY2022 Funding = \$60,000
  - FY2023 Proposed Funding = \$377,380.50
- FDEP State Springs Funding (50% Construction)
  - ► FY2023 Proposed Funding = \$377,380.50

### Project Benefits

- Net Nitrogen Reduction of Infiltrated Runoff:50.61 lbs/ TN/yr
- Nutrient Reduction with FDEP Recharge Factor: 45.55 lbs/TN/yr
- Cost effectiveness: \$331/ Ib of additional TN removed (50 year lifespan of B&G)
- Marion County is committed to the Program and to the successful completion of this project



