

Regional Water Resource Priorities

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April 27, 2012

Today's Presentation

- Review BCB strategic priorities
- Prepare for Collier County/City of Naples workshop
 - Identify water resource priorities
 - Naples Bay, Northern Golden Gate Estates, Alternative Water Supplies



Strategic Priorities

- Adopted by BCB Board August 27, 2010
 - Strategic Priorities
 - Maximize Flood Protection
 - Restore and protect Big Cypress Basin ecosystems
 - Protect and improve inland and estuarine water to achieve water quality standards
 - Ensure sustainable water supplies



Maximize Flood Protection

- Efficiently operate and maintain primary canal and water control structure network
- Improve canal conveyance while emphasizing water resource protection
- Retrofit old, inefficient water control structures
- Cooperate with local governments to improve and maintain secondary and tertiary systems

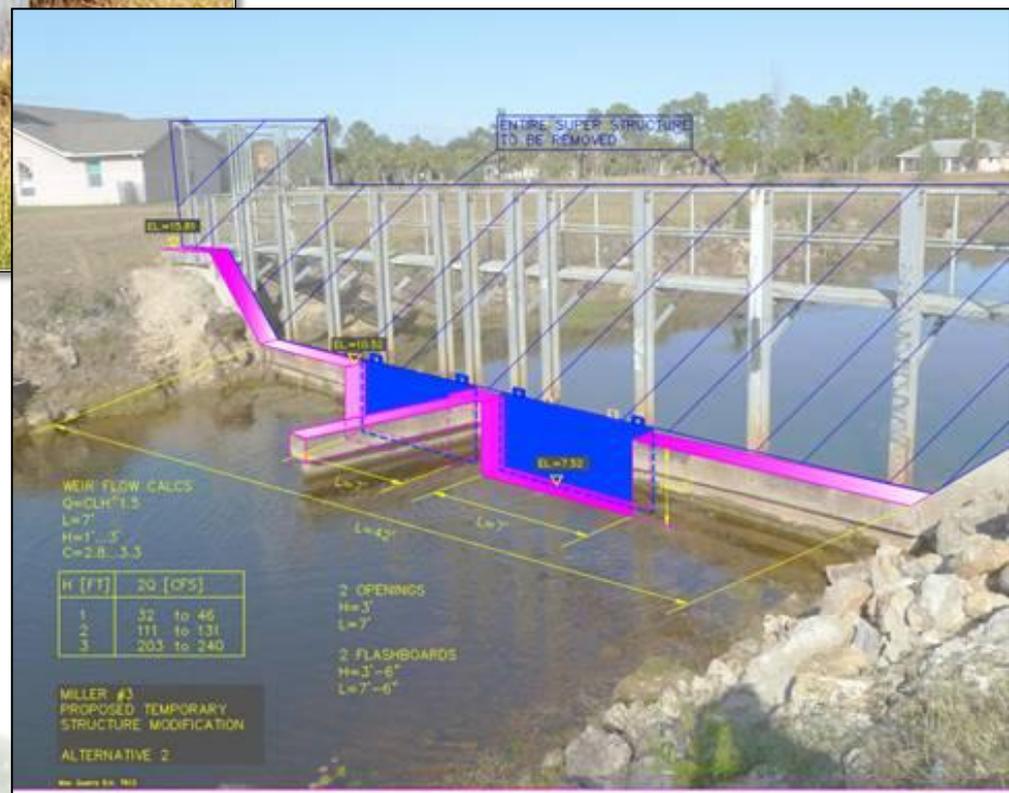


Flood Protection Projects



GG#4

Miller #3



Enhance Ecosystems

- Restore historic flow-ways to enhance wetland functions
- Support land acquisition for restoration
- Improve water storage capacity
- Improve the timing, quality and distribution of fresh water to coastal estuaries
- Implement restoration projects for coastal water bodies

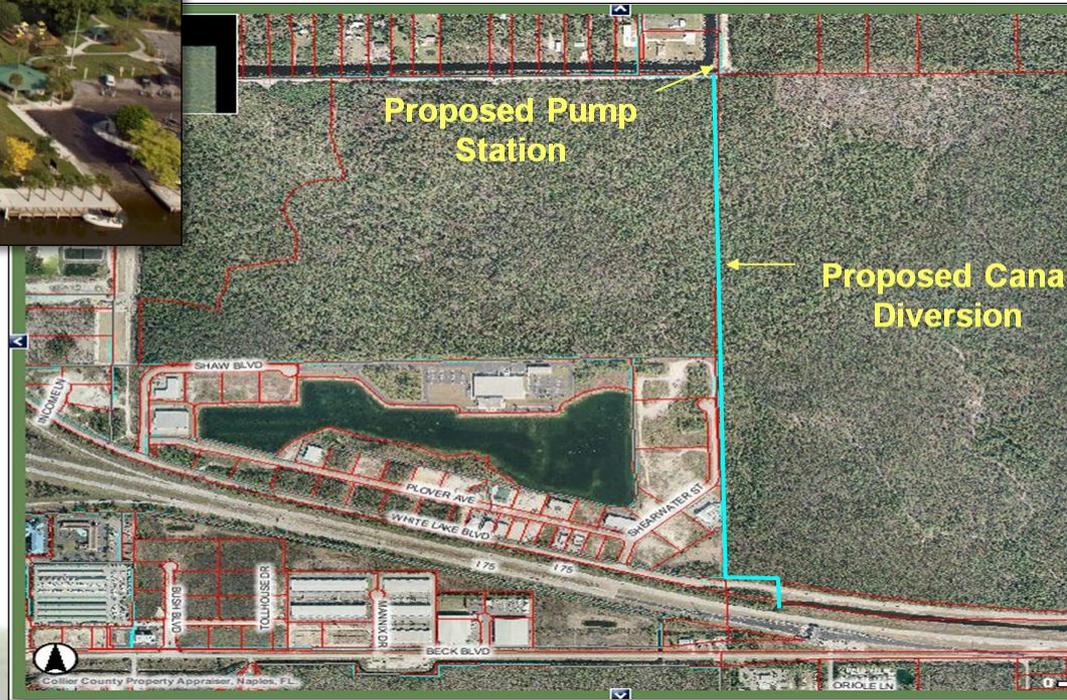


Ecosystem Enhancement Projects

- Estimated Average annual flow reduction by a combination of the following future diversion projects = 120 cfs (78 MGD)
 - Henderson Creek Diversion – Max: 100 cfs (65 MGD)
 - North Belle Meade Rehydration = Max: 700 cfs (455 MGD)
 - Miller Canal#3 retrofit = Max 400 cfs (260 MGD)
- Reduction from 2012 level = 45%



Enhance Ecosystems



Plan Elements - Belle Meade Area

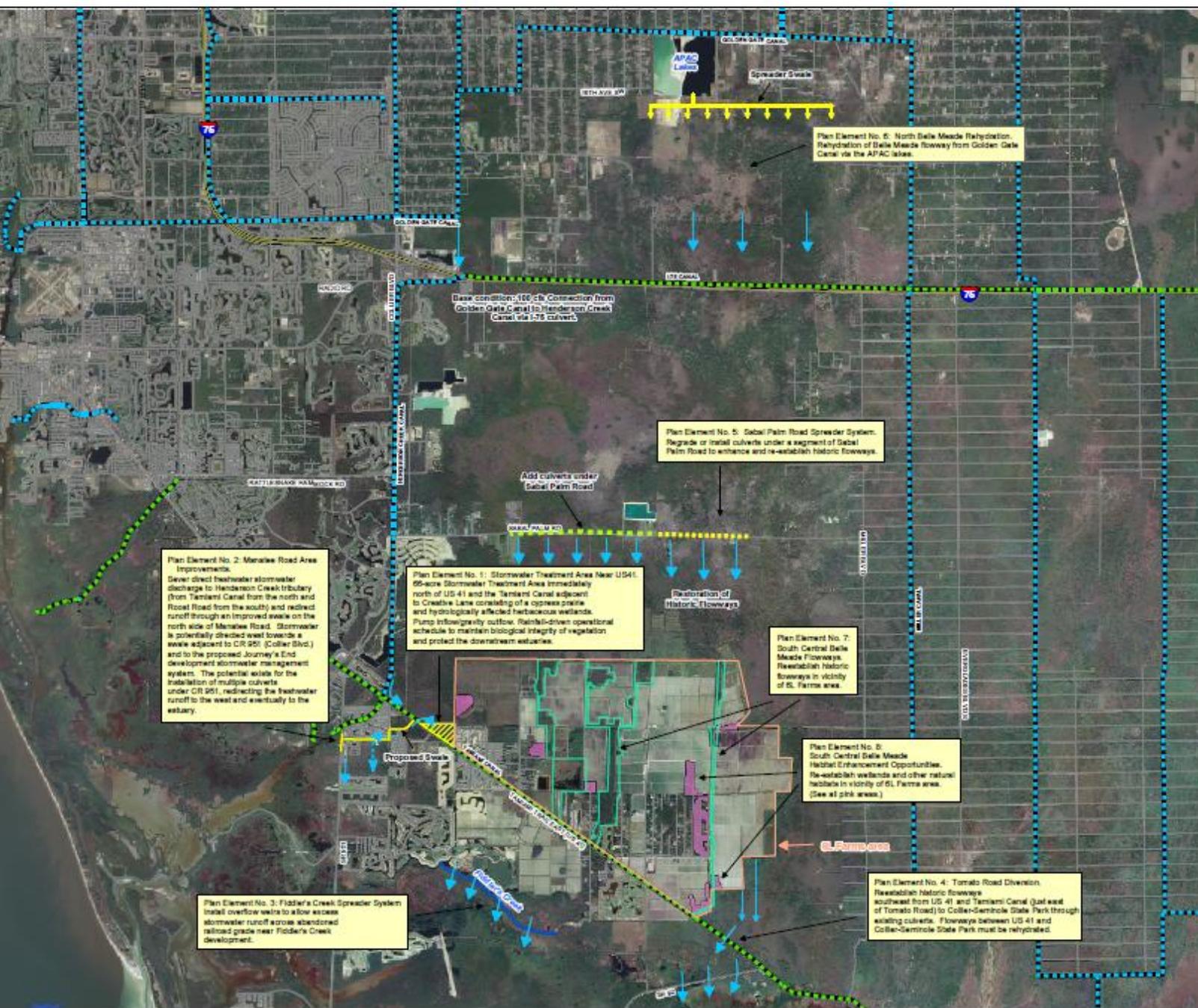
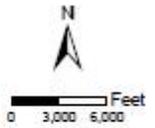


FIGURE 6.1
Plan Elements

Legend

- ▬▬▬ SFWMD Canals
- ▬▬▬ Non-SFWMD Canals
- ▬ Roads
- ▬ Interstate
- ▬ Proposed Flowways
- ➔ Flow Direction



PARSONS

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C-15776
Belle Meade Stormwater Management Master Plan
metadata: Available in GIS data source:
Aerial: Labins DOQQ 2004
Canals: SFWMD 2004
Road: Collier County 2004
Elements: HSA 2006
project: Belle Meade
create date: 03/29/2006
modified date: 08/30/2006

Prepared for:

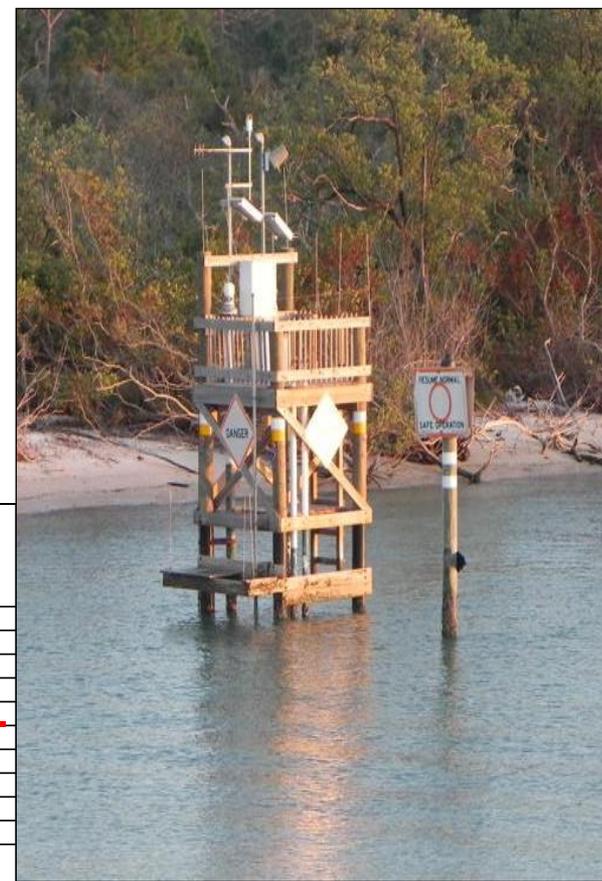


Improve Water Quality

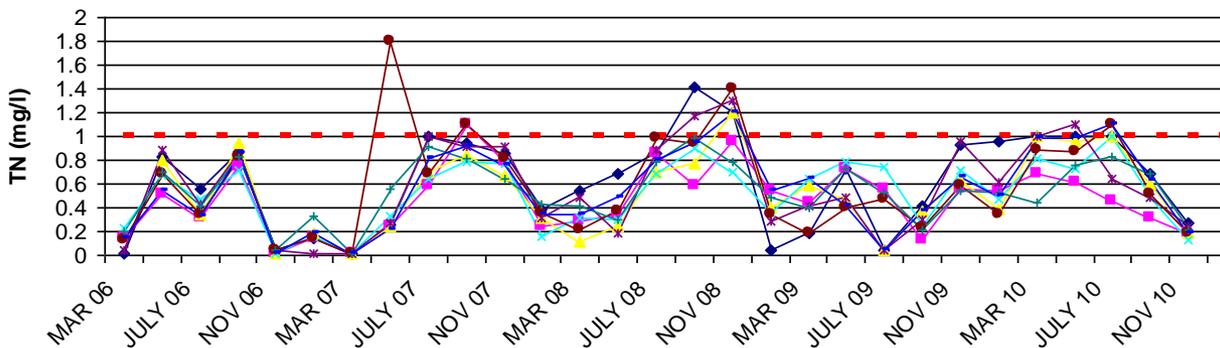
- Monitor the trends of surface and groundwater quality
- Support local governments to implement stormwater improvement projects
- Operate water control structures to meet water quality standards of receiving waters



Water Quality Improvement Projects



Total Nitrogen Naples Bay 2006-2010

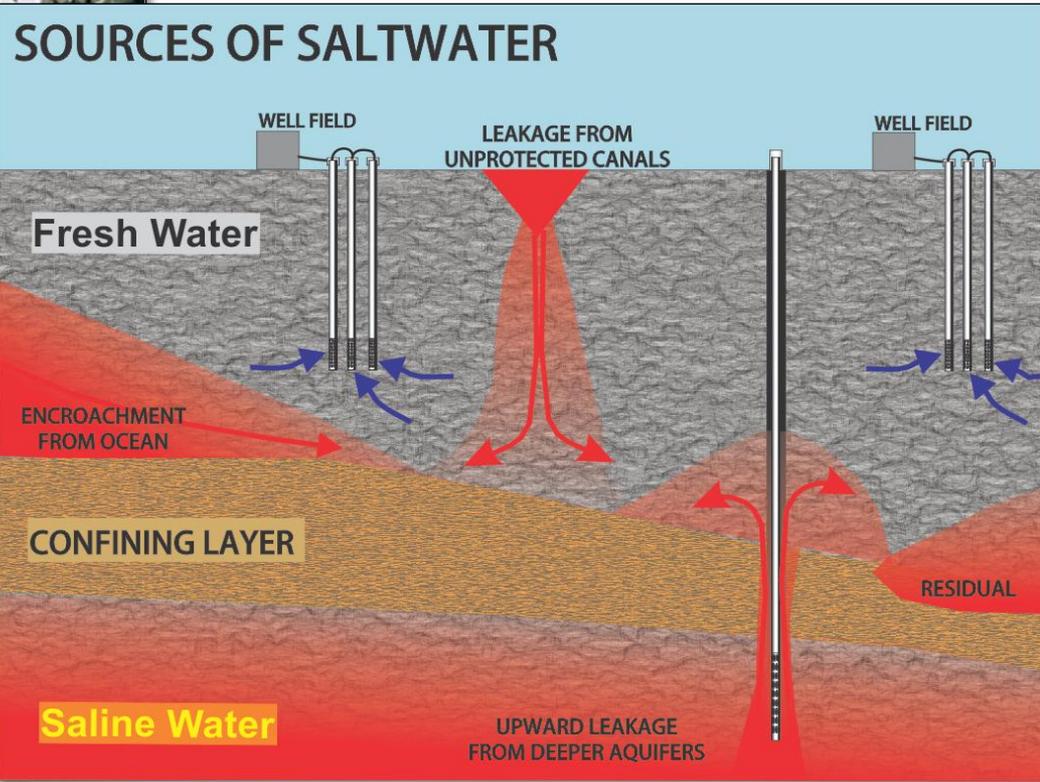


Protect Water Supply

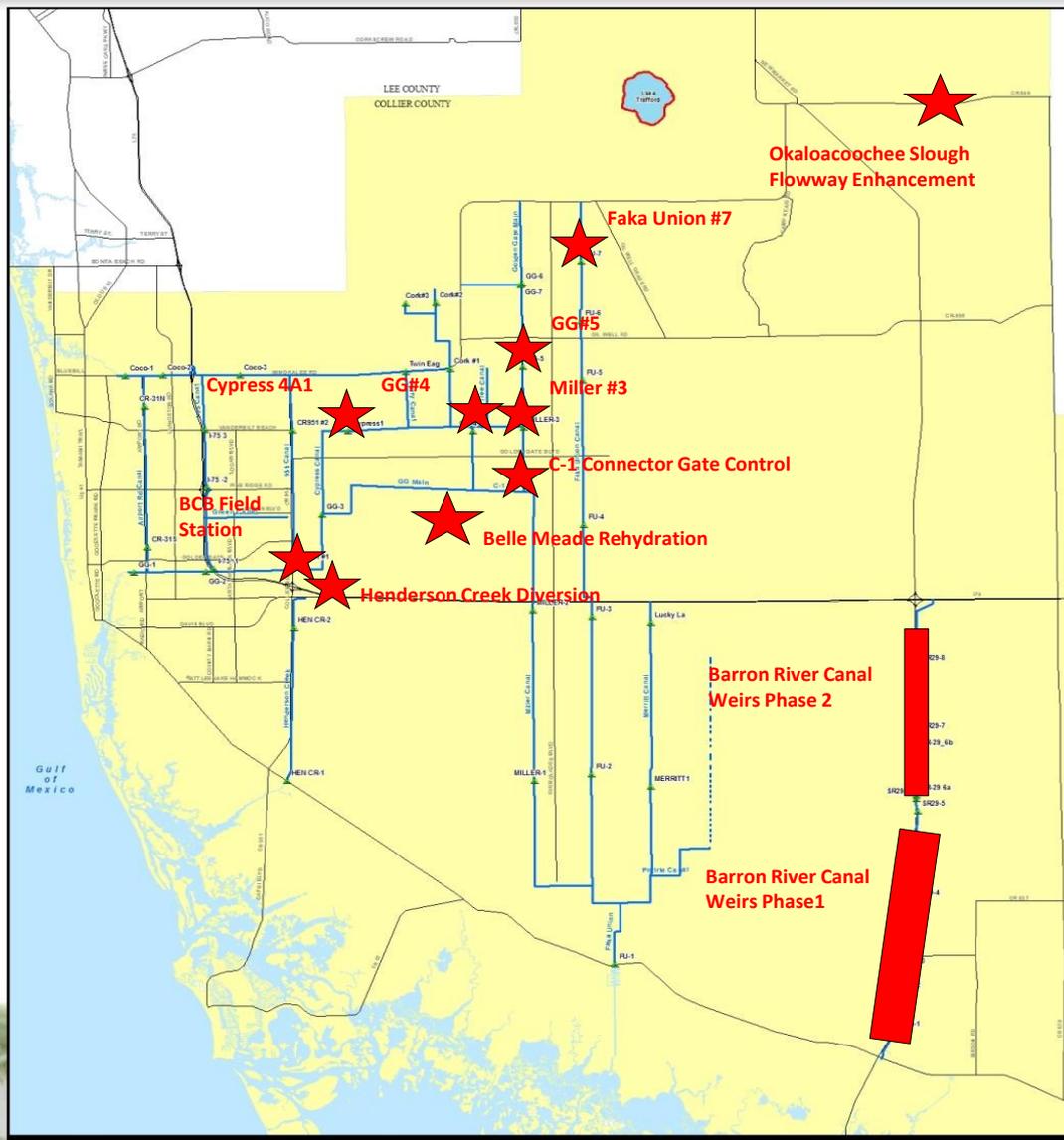
- Develop and implement the regional water supply plan
- Create financial and other incentives for regional solutions, develop alternative water supplies and water conservation
- Update regional models to assist in determining water sustainability in the Basin
- Strengthen the linkage between land use, water supply planning and consumptive use



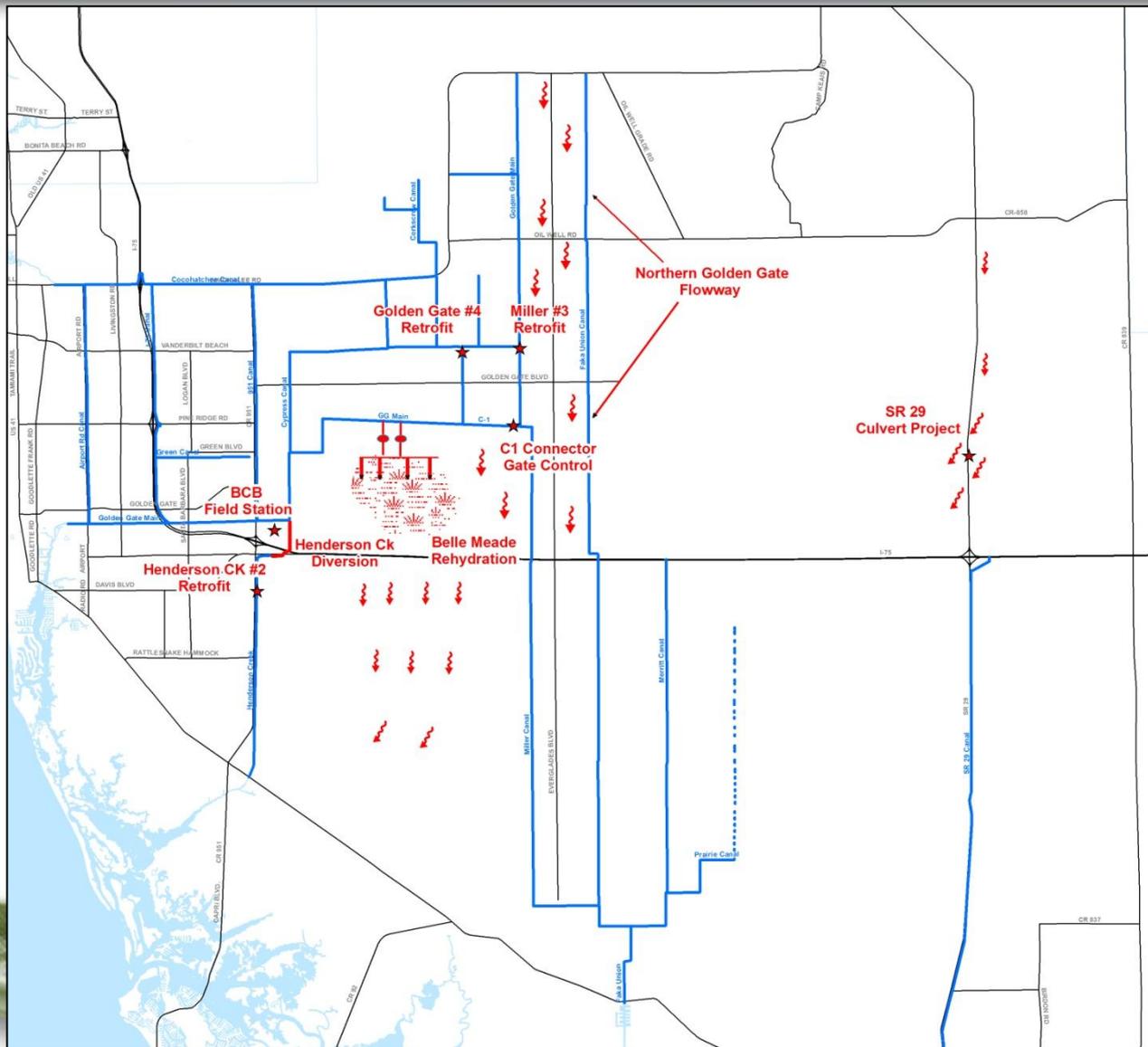
Water Supply Projects



Existing Commitments: Capital Improvement Projects



Future Capital Improvement Projects



Regional Strategic Priorities

- Improvements to Primary and Secondary systems
- Restore historic flows
 - Henderson Creek Diversion
 - Belle Meade flow-way
 - Northern Golden Gate Estates flow-way
 - Okaloacoochee Slough
- Decrease inflows to Naples Bay

