

Conceptual Intersection and Drainage Improvement Study



State Road 79

From Front Beach Road (SR 30)

To Back Beach Road (SR 30A)



Project Location Map



Existing Condition





Improvement Goals

- Provide acceptable Levels of Service for motorists through the design year 2023
- Include dedicated Transit/Bicycle lanes
- Accommodate Safe Pedestrian movements
- Improve Access Management
- Minimize Business impacts
- Constructability & Maintenance of Traffic
- Provide landscape and hardscape amenities
- Design to minimize construction phasing and time
- Develop Permittable Stormwater management facilities that minimize parcel impacts
- Minimize Construction costs

"T" Intersection Concept

Treatment Only



"T" Intersection Concept

Discharge After 25-yr 24-hr Storm Event



Roundabout Concept

Treatment Only



Roundabout Concept

Discharge After 25-yr 24-hr Storm Event





Evaluation Matrix

Parameter	"T" Intersection	Roundabout
Levels of Service through 2023	✓	✓
Access Management	✓	
Pedestrian Safety & Control	✓	
Dedicated Transit/Bicycle Accommodations	✓	
Accommodate Emergency Vehicles	✓	
Driver Expectations and Consistency with local design	✓	
Constructability / MOT	✓	
Parcel Impacts	✓	
Green Space	✓	✓
Relative Construction Costs	✓	

Existing Outfalls





Recommendations

- We recommend moving forward with the “T” Intersection Design Concept and ask for CRA and City concurrence.
- Design of the outfall to Lullwater Lake will be required in order to construct the project. In addition, improvements to the outfall structure is anticipated. As a result, we will need to address these items in the reevaluation and include them in design.
- The design and construction phasing of Front Beach Road from the Lullwater Lake outfall or from a point east of that location should be constructed concurrently, if possible, with the SR 79 intersection project.



QUESTIONS ?

Lullwater Outfall (B-106)

