MIAMIBEACH RISING ABOVE



June 18, 2024

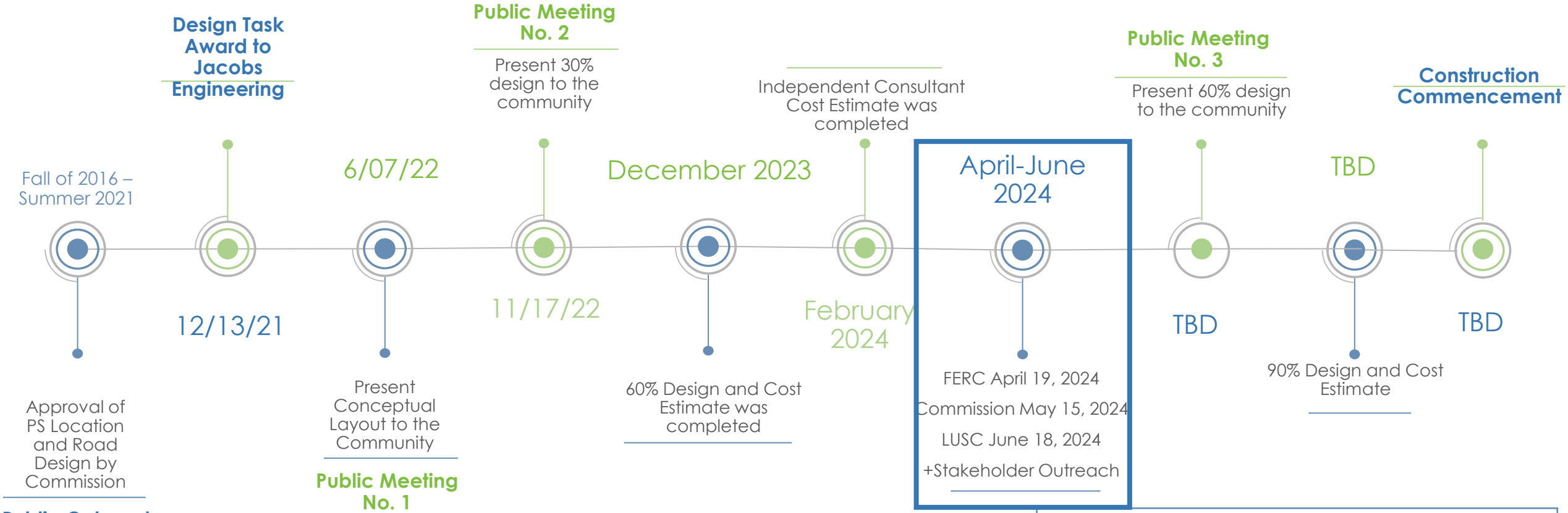
# First Street & South Pointe Stormwater Improvements Update to LUSC

# Meeting Agenda

1. Project Timeline & Outreach
2. Current Optimized Design & MOT
3. 96-inch Trunkline Alternatives
4. Other Community Concerns: Greenspace/Trees and Parking
5. Conclusions and Next Steps



# Project Timeline




**Public Outreach**

**2016 – 2021:**
**Extensive public outreach to select Stormwater Treatment/ Pump Station site location & typical section.**

Project updates will continue to provided to the community as the project design progresses. Once construction commences, the community will be notified of any neighborhood impacts.

*This Schedule is subject to change.

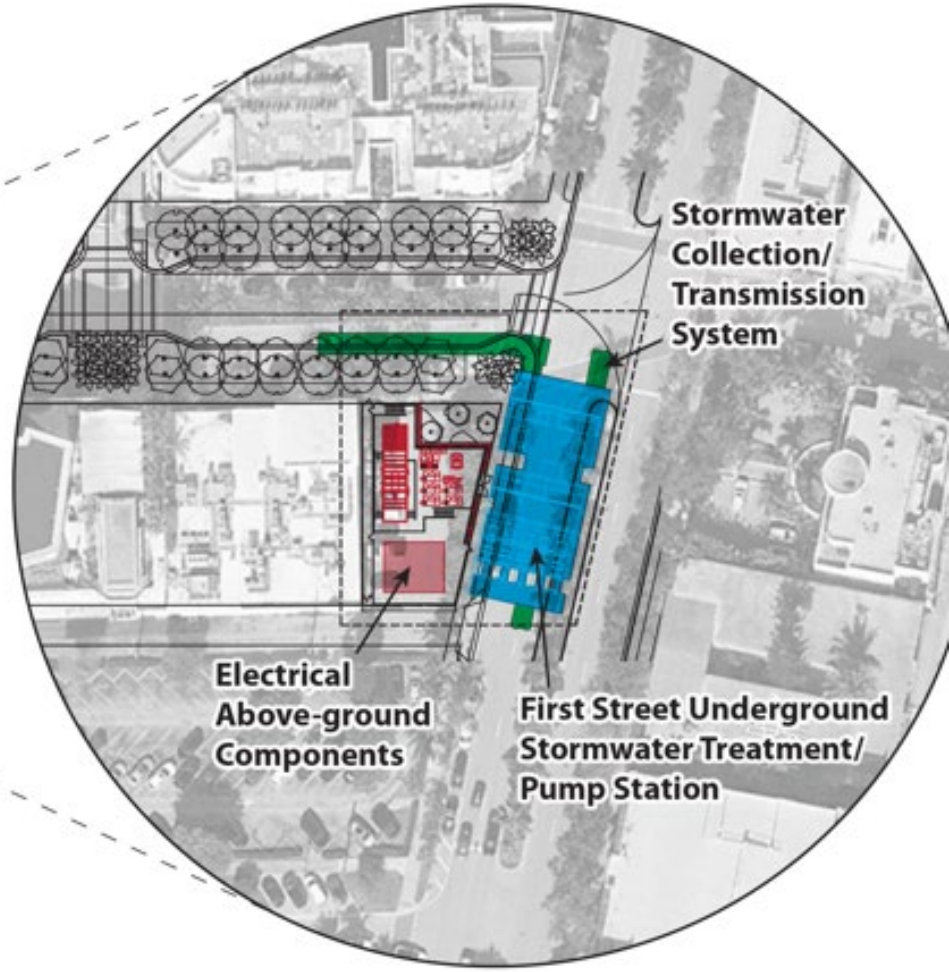
# OUTREACH SUMMARY

- Over 70 meetings, dating back to 2017
  - Nearly 40 one-on-one meetings with stakeholders in the first era of this project (2017-2021)
  - 32 more stakeholder meetings from January 2021 to present
  - These meetings are with residents, businesses, restaurants, and neighborhood leaders
- 9 Public Meetings
  - Including commission and committee appearances
- Regular SOFNA presentations and updates
- Dedicated Public Outreach Liaison for the project
- Ongoing project team meetings among staff and explaining project details to the public

# Proposed Infrastructure Improvements (Commission Appvd. 2021)

- Stormwater Collection, Treatment and Discharge
- Water and Sewer Upgrades
- First St. Reconstruction






# 1st Street – Current Optimized 60% Design- Road Raising ~1.5ft





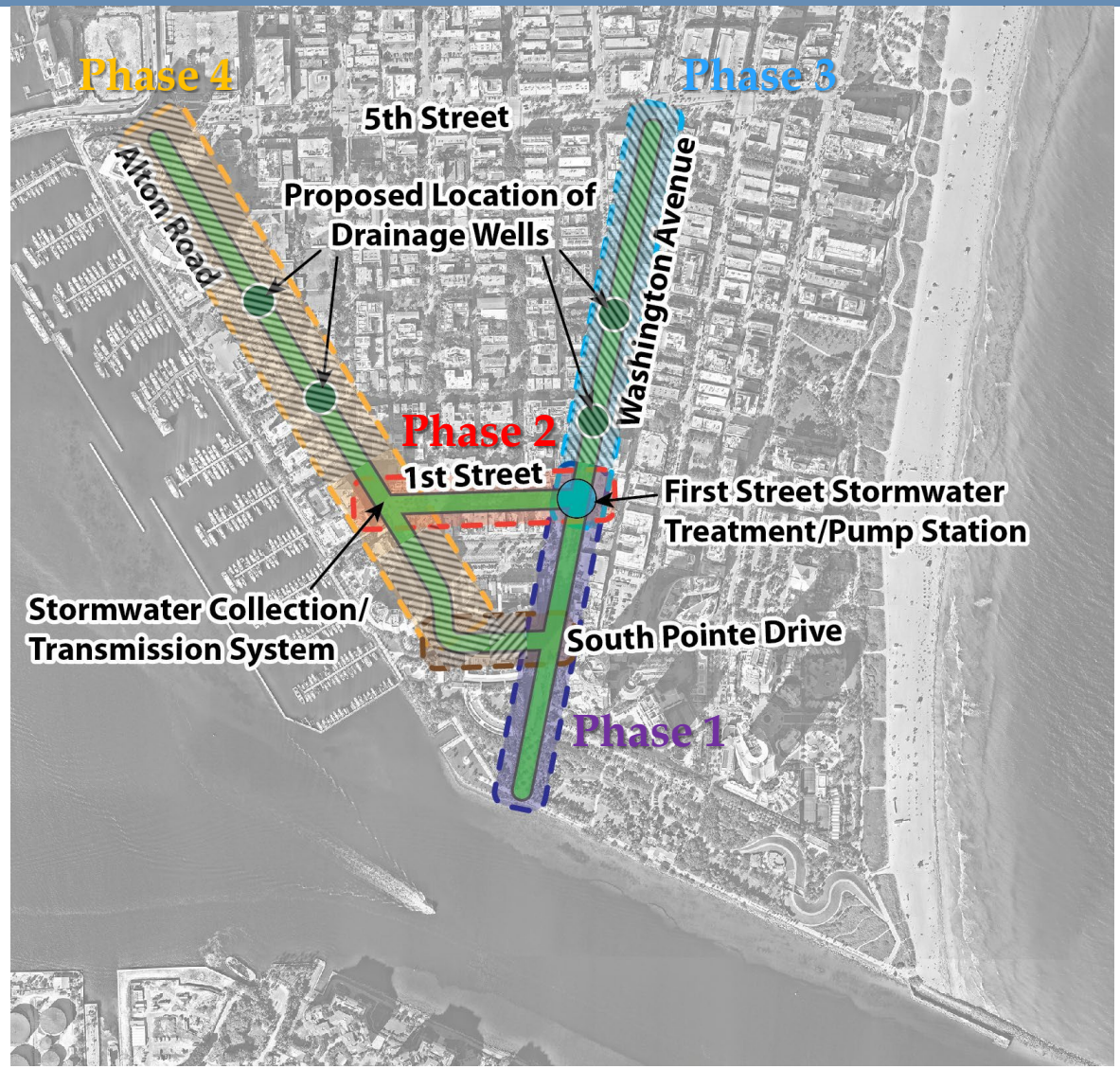

# Construction and MOT Estimated Duration

- **Phase 1** – PS, FM & dissipator **17 Months**
- **Phase 2** – 1st Street **6 Months**
- **Phase 3** – Washington Ave 1st to 5th St. **9 Months**
- **Phase 4** – Alton Rd South Point to 5th St. **19 Months**

*** Total Construction Time ( Phases 1 &2 Only) = 23 to 24 Months**

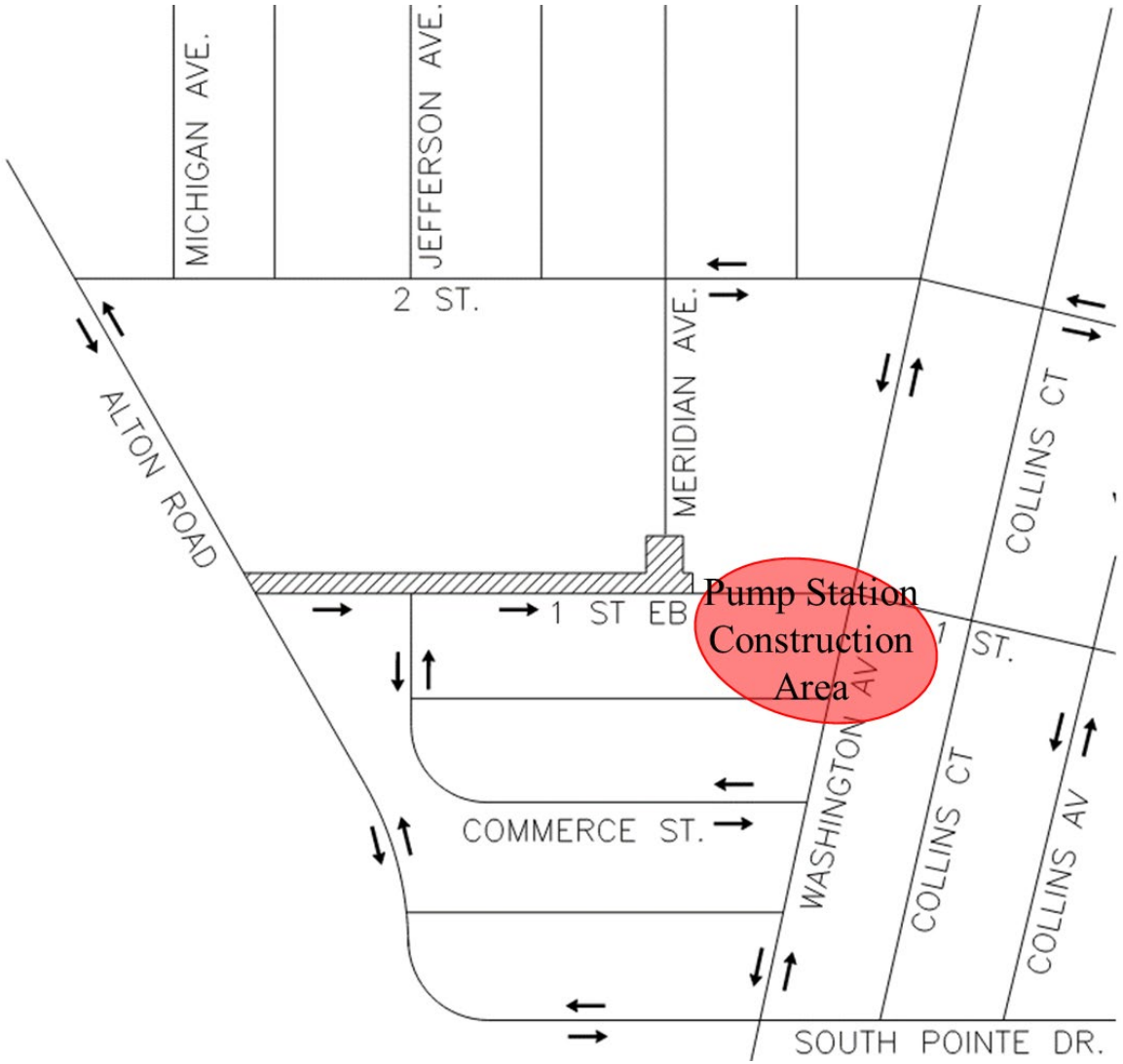
- **South Point Drive** – *Not included in Contract*

***On April 19, 2024, FERC gave a favorable recommendation to move forward with Phases 1 and 2 only**



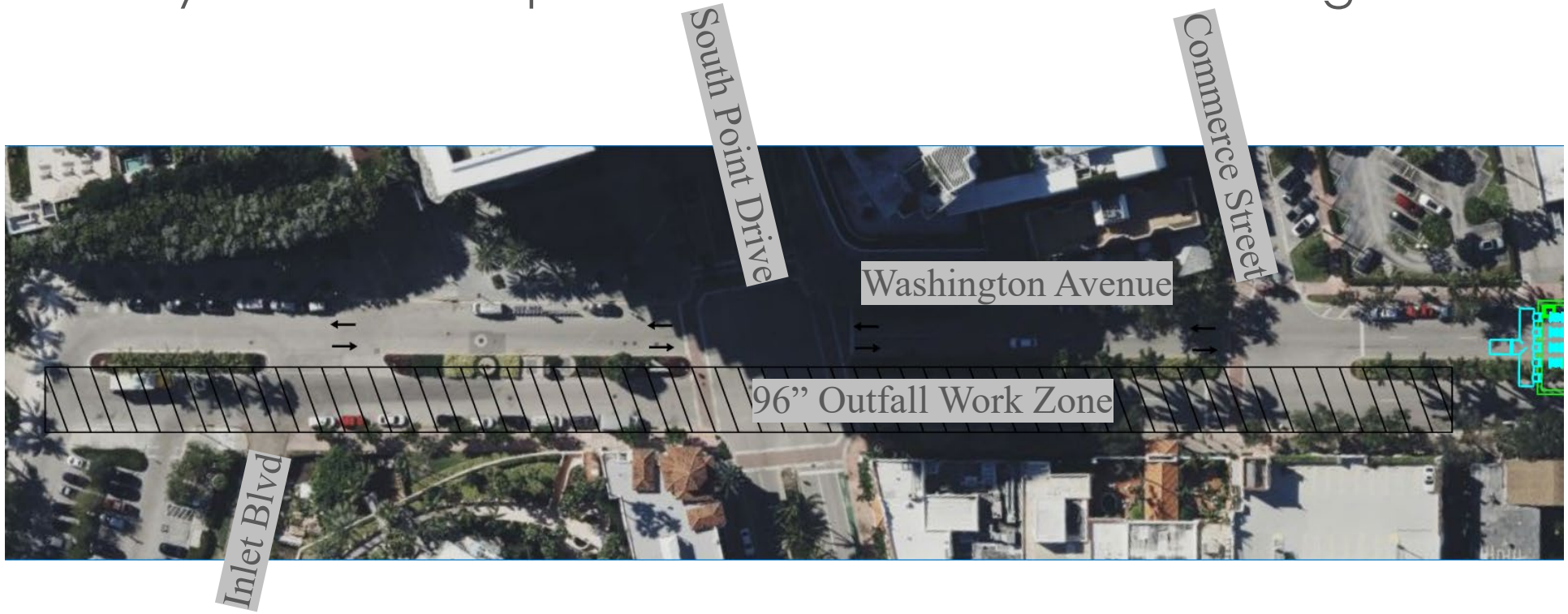
# Community Concerns: Phase 1A - PS Construction - MOT & Access

- Closed Intersection on First St and Washington Ave.
- Construction Coffer Dam and Underground Pump Station



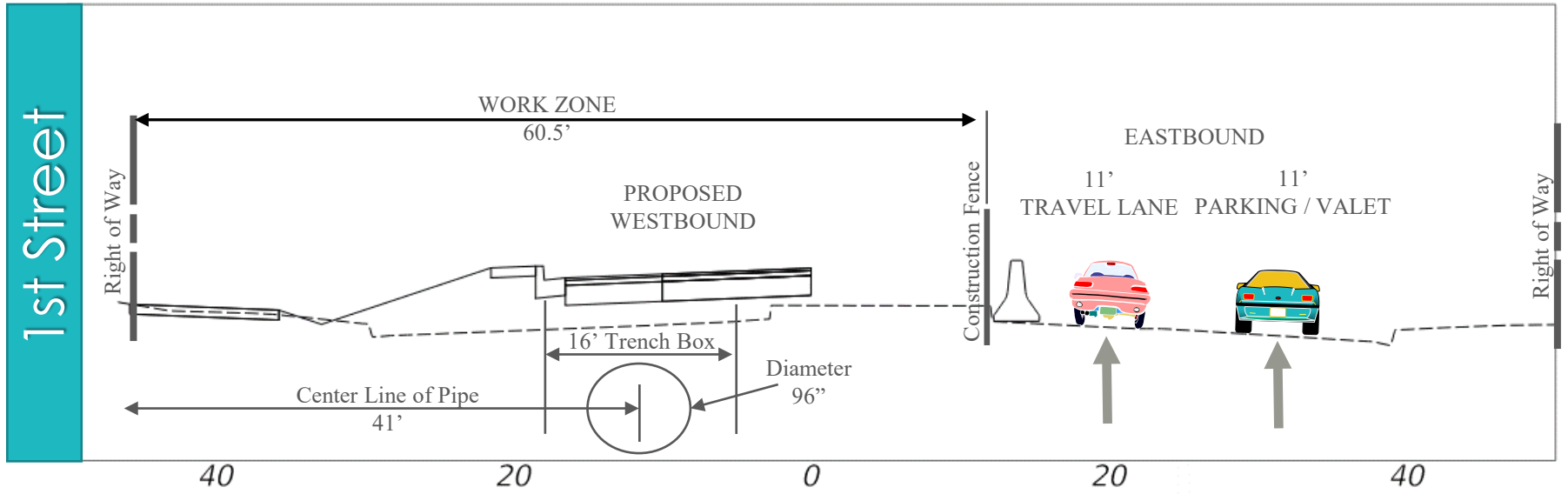
# Community Concerns: Phase 1B- Outfall Construction - MOT & Access

- Close coordination with Joe's and Other Businesses.
- Property access will be maintained at all times.
- Two-way traffic to be provided on one side of Washington Ave.



# Community Concerns: Phase 2A – First St MOT & Access

**The only suitable location for the 96-inch diameter pipe is 1st Street.**



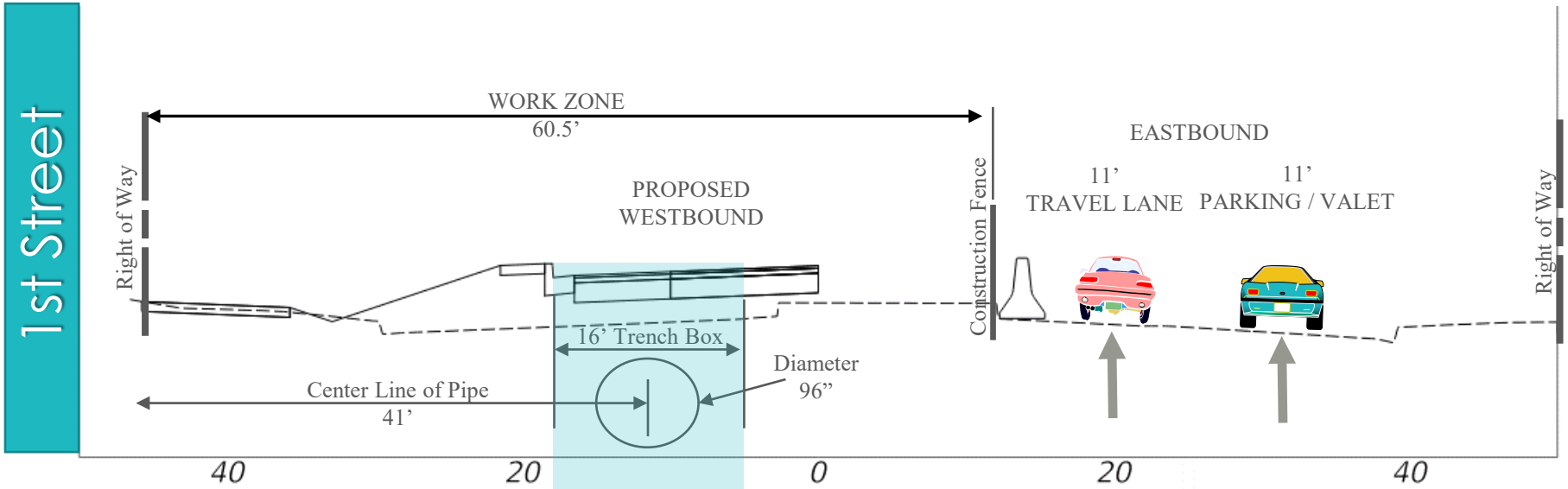

MOT 1st Street Westbound

- ✓ Property access shall be maintained at all times.
- ✓ Two eastbound lanes maintained during construction of the 96-inch diameter trunk line.

# Alternatives Considered and Rejected: 96-inch Pipe on 2nd St

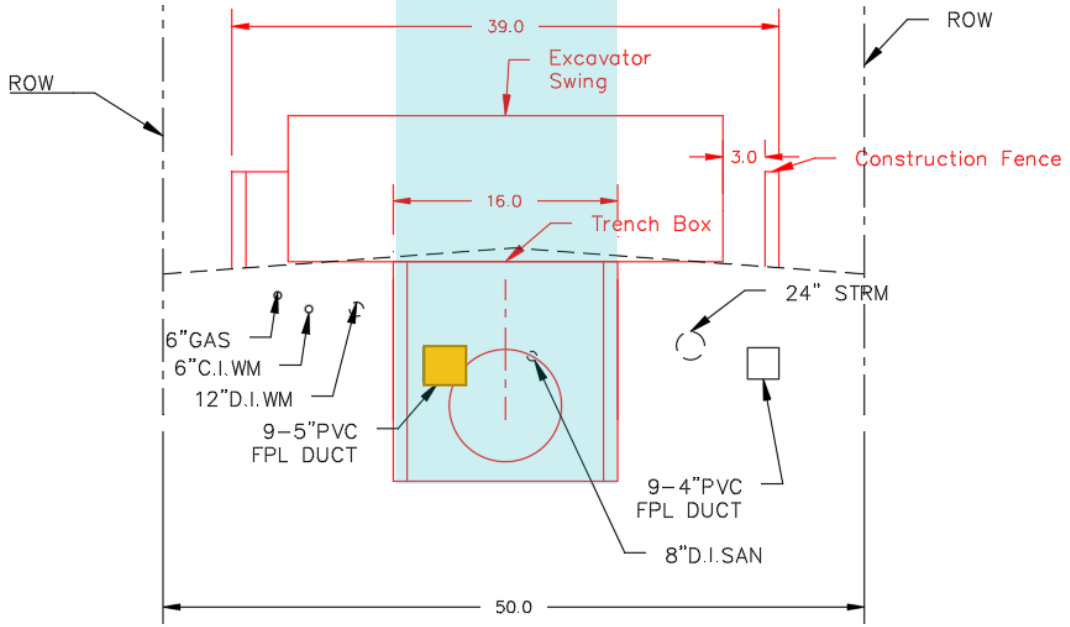
- ✓ Property access shall be maintained at all times.
- ✓ Two eastbound lanes maintained during construction of the 96" trunk line.

1st Street




- Limited right of way (50 feet) congested with utilities
- Installation of 96" pipe will span entire right of way and prevent travel and access to properties and removal/demo of all surface features

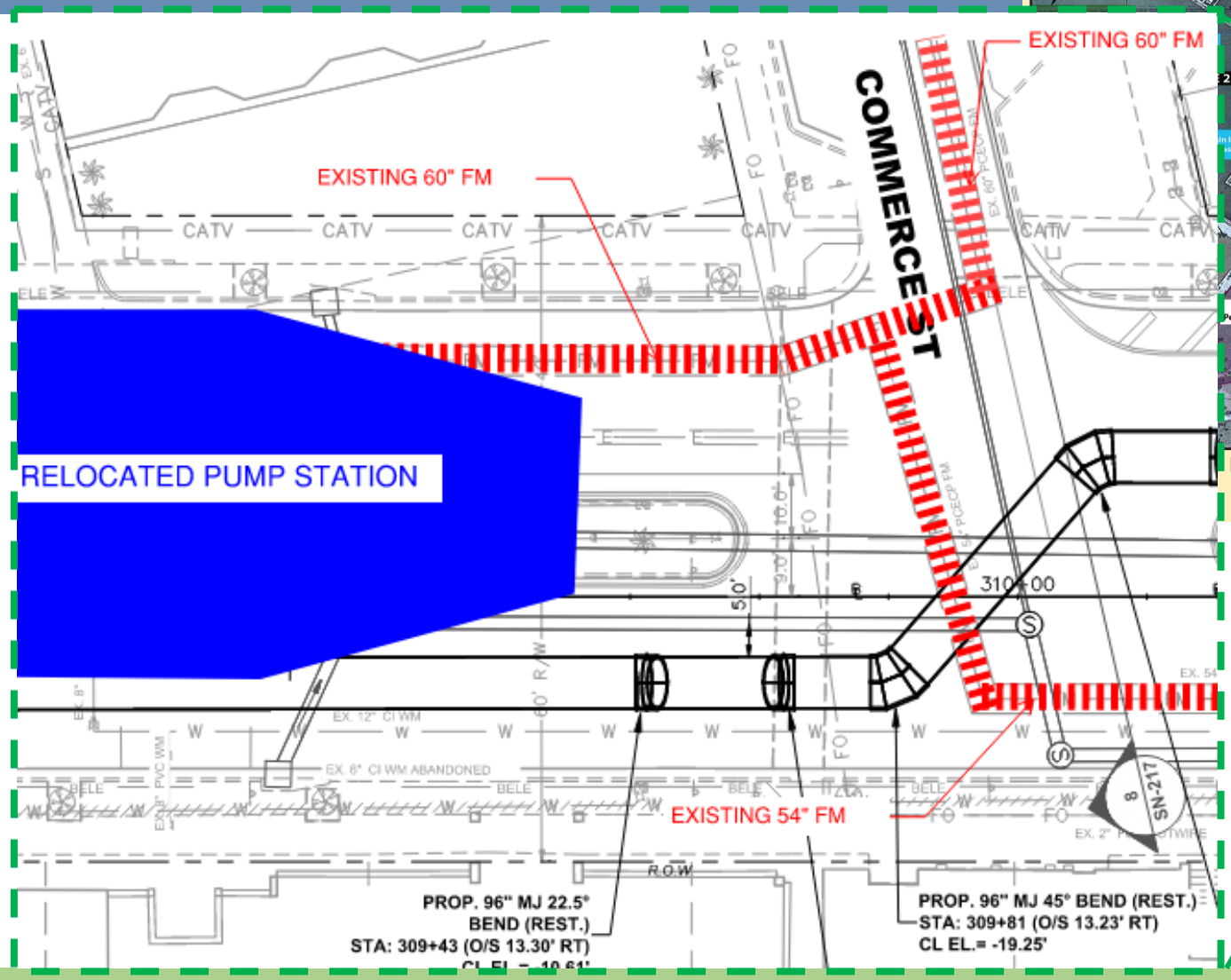
2nd Street

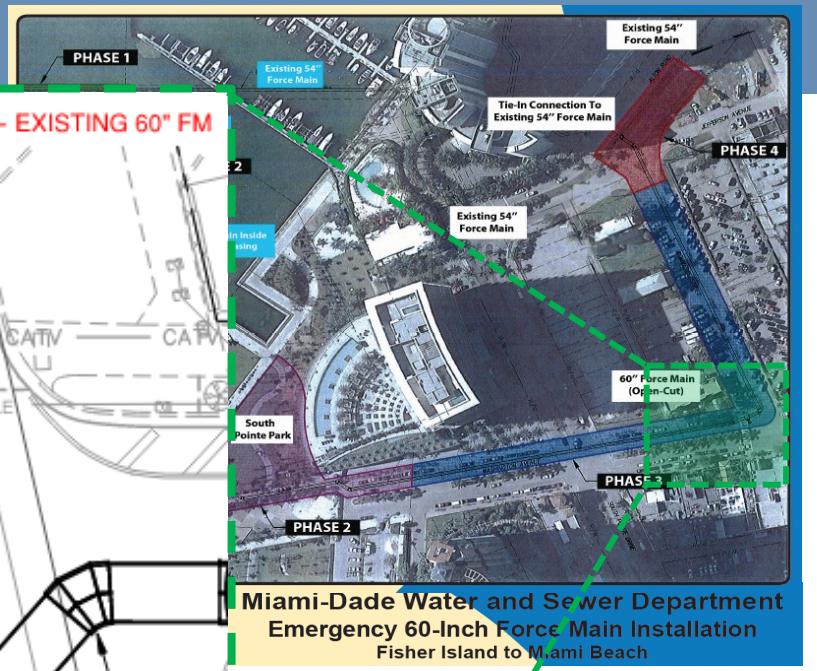



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# Alternatives Considered and Rejected: 96-inch Pipe on Commerce Street

- Commerce has a 60-inch Force main on it
- The intersection of Commerce and Washington has a connection of a 54" FM with the 60" FM. Adding a 96" pipe to this intersection is impossible
- Pump station would have to be relocated just south of Commerce with this change (directly in front of Joes Stone Crab) (pump station size and revised location shown in blue)



# Other Alternatives Considered and Rejected

- Multiple smaller pipes on 1st St:
  - will result in larger work zone and trench, aka further limited space for 2 travel lanes in the 96-inch diameter pipe option

- Horizontal Directional Drill (HDD) Pipe on 1st St:
  - Because the system works by gravity, HDD technology is not suitable because HDD creates a parabolic shape when installed.

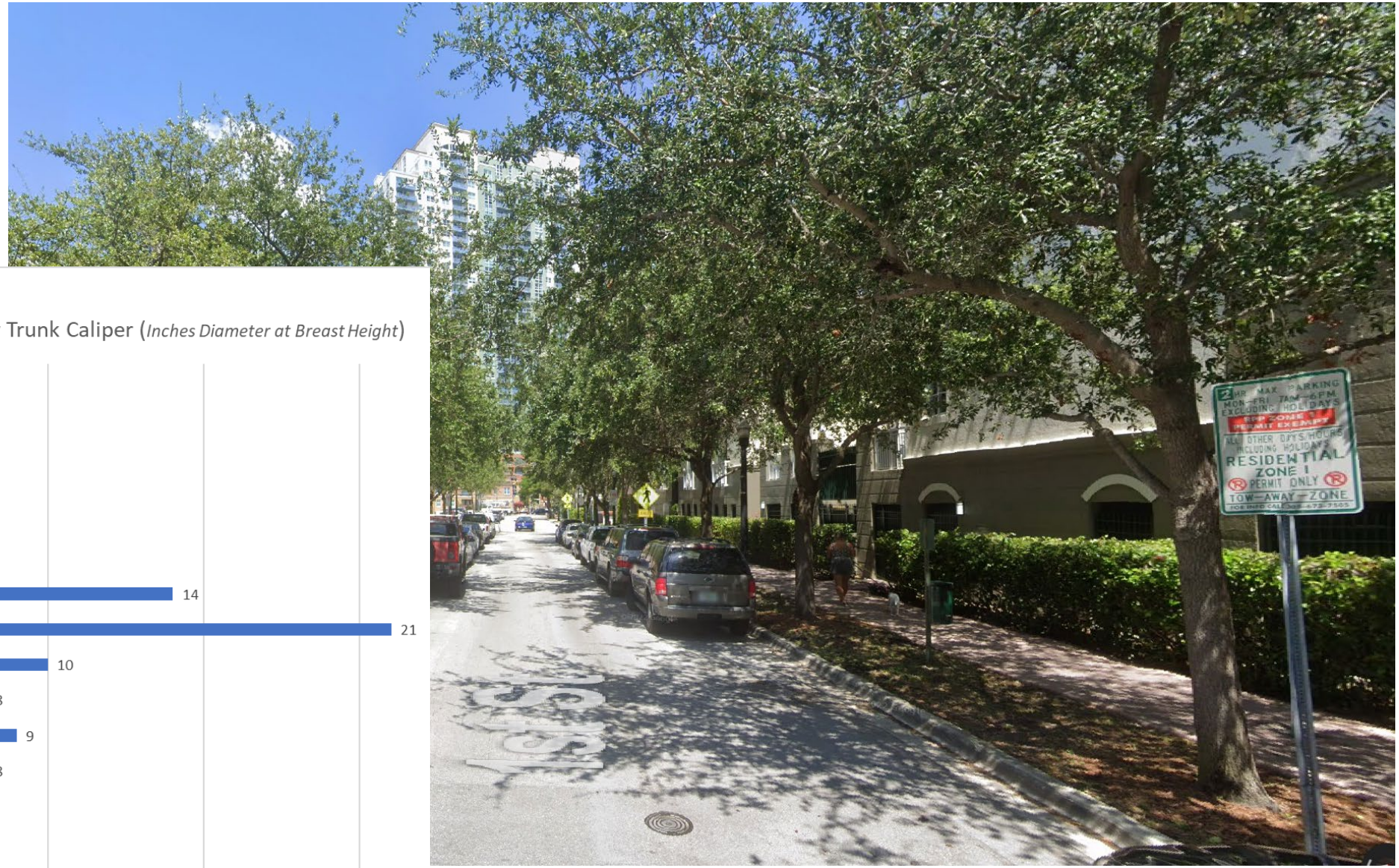
- Alleyway:
  - Less than 20' ROW with existing water and sewer pipes.

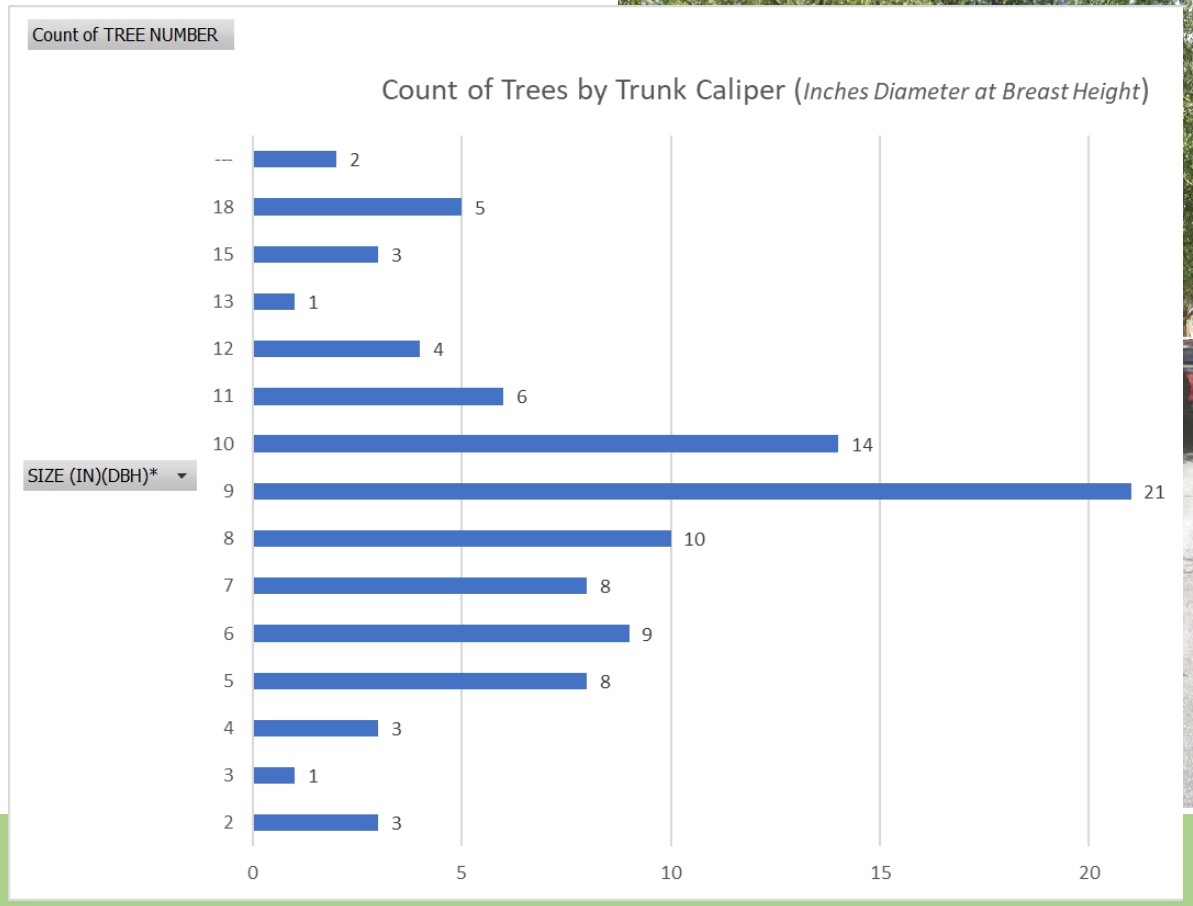
- Joe's Stone Crab Parking Lot:
  - Previously discussed and rejected by Joe's Ownership.

**Conclusion:**

✓ **The only suitable location for the 96-inch diameter pipe is 1st Street.**

# Community Concerns: Tree Relocation to Maintain the Character of 1st St





**Existing Live Oaks on 1st Street to be Relocated**



**Trench Opened to Access Roots**



**Roots Exposed for Pruning**



**Trench and Root Area Refilled w/ Soil Until Ready to Transplant Tree**

## WHAT IS ROOT PRUNING?:

Root pruning involves the careful trimming of the roots of a tree that is intended to be transplanted in order to manage root growth and to mitigate potential issues. By pruning roots, arborists can prompt them to grow deeper into the soil, cultivating a stable, healthy, and flourishing root system.

## WHEN IS ROOT PRUNING NEEDED?

Root pruning is commonly conducted prior to the transplantation of a tree. Root pruning reduces stress on the tree and stimulates fresh root growth at the cutting site.

## ADVANTAGES OF ROOT PRUNING:

**Healthy Root System:** Root pruning stimulates the development of a compact and robust root system. By trimming unnecessary or circling roots, the tree focuses on cultivating healthier roots that provide enhanced anchorage, water, and nutrient access.

**Reduced Tree Stress:** During transplantation or construction activities, root pruning alleviates stress on the tree, increasing its chances of survival and successful establishment.

## GUIDELINES FOR ROOT PRUNING:

**Timing:** Root pruning should be done 3 - 4 months in advance, and is most effective during the dormant season, typically late fall or early winter, when trees aren't actively growing.

**Appropriate Tools:** Utilize sharp and clean pruning tools for precise cuts that minimize root damage.

**Distance from Trunk:** Avoid cutting roots too close to the tree's trunk, as this could compromise its stability.

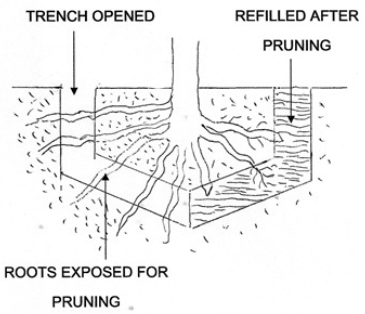
**Watering:** After root pruning, maintain proper watering to aid the tree's recovery and stimulate new root growth.

## FACTORS AFFECTING THE SUCCESS OF ROOT PRUNING:

- Age of Tree
- Number of Roots That Need Pruning
- Overall Health of the Tree
- The Species of Tree
- Trimming in Structural Root Zone
- Soil Type
- Lean of Tree/Instability
- Diseases Introduced Through Prune Wounds



**ONE OF SEVERAL POTENTIAL TEMP. TREE HOLDING SITES: Perimeter of Greenspace Maintenance Facility, 2100 Meridian Ave.**

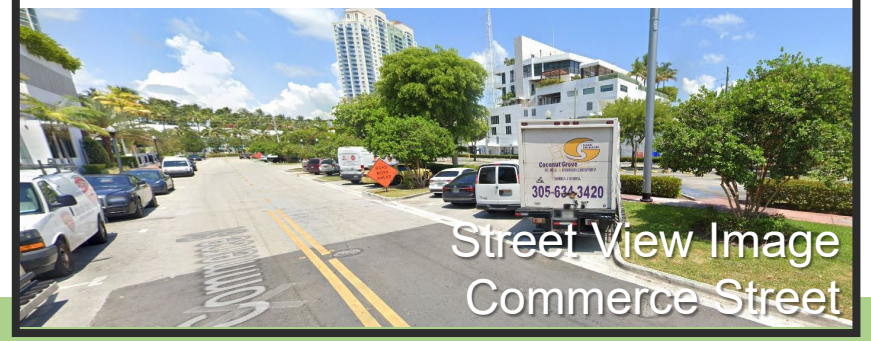


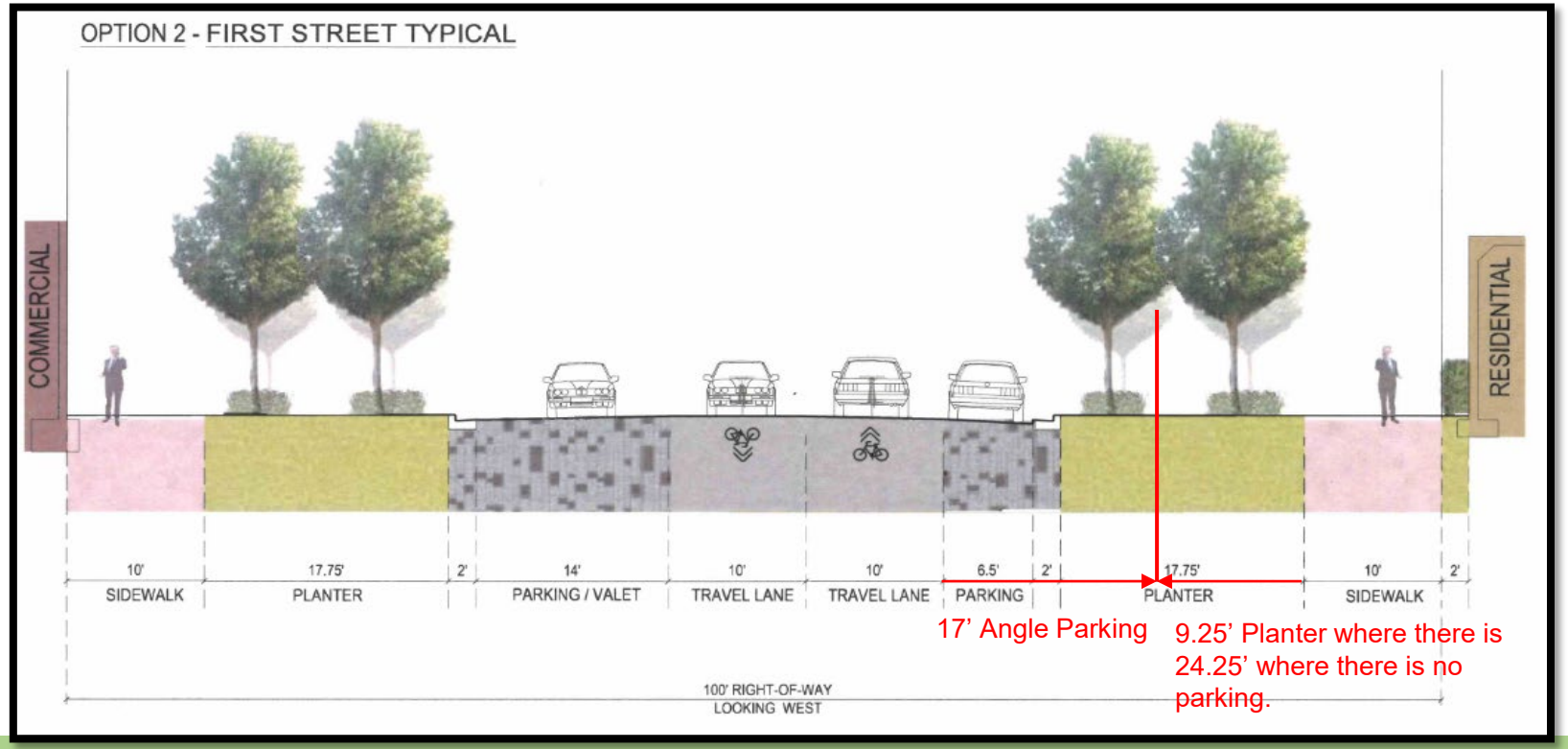
# Community Concerns: Parking

- **Parallel parking is statistically safer**
- **Community feedback (SOFNA [81%], meetings with business owners, original community poll support current design for more green space with parallel parking.**

| Location | Existing | Parallel Parking Current 60% | Angled (Diagonal) Parking Alternative |
|---|---|---|---|
| Active Parking First Street | 64 | 36 | 62 |
| Parking in Surface Lot | 12 | 0 | 0 |
| Parking on Jefferson Ave | 9 | 12 | 15 |
| **Total** | **85** | **48** | **77** |




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# Recommendation and Next Steps

1. Bring to Full Commission for Approval to re-start design with the necessary scope adjustments to proceed with Phases 1 and 2 only

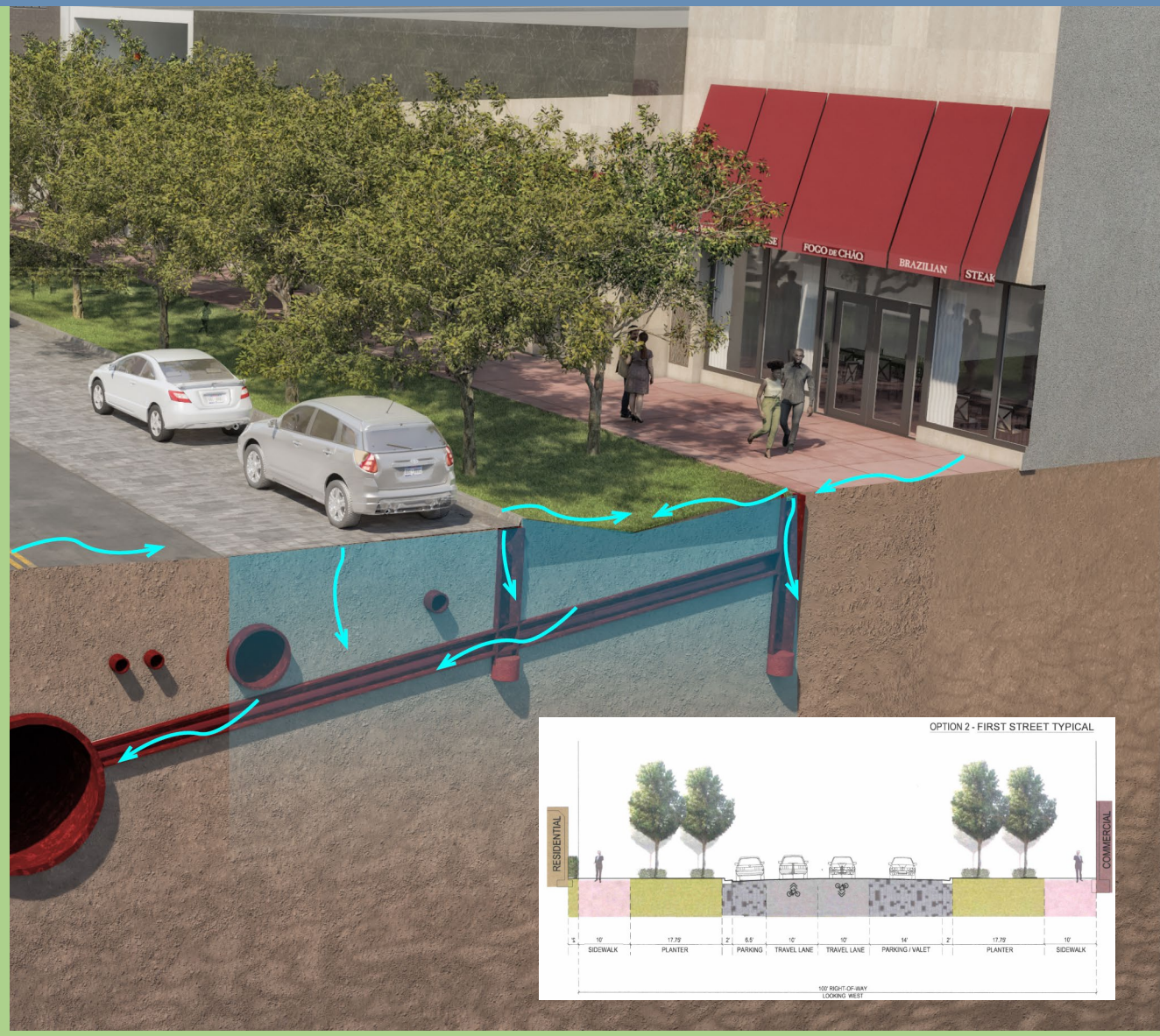
   -continue with approved typical section maximizing green areas and with relocation of existing trees

2. Re-Start Design

3. Continue to meet with Stakeholders, Businesses and Residents

4. Hold 60% Public Meeting w/Community

5. Complete Design and Permitting in 2025 to start construction in 2026



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## Questions

www.miamibeachfl.gov/firststreetproject

Thank You!

