



Lift Station 87 Wet Weather Flow Transfer Project

Engineering and Capital Improvements
Department

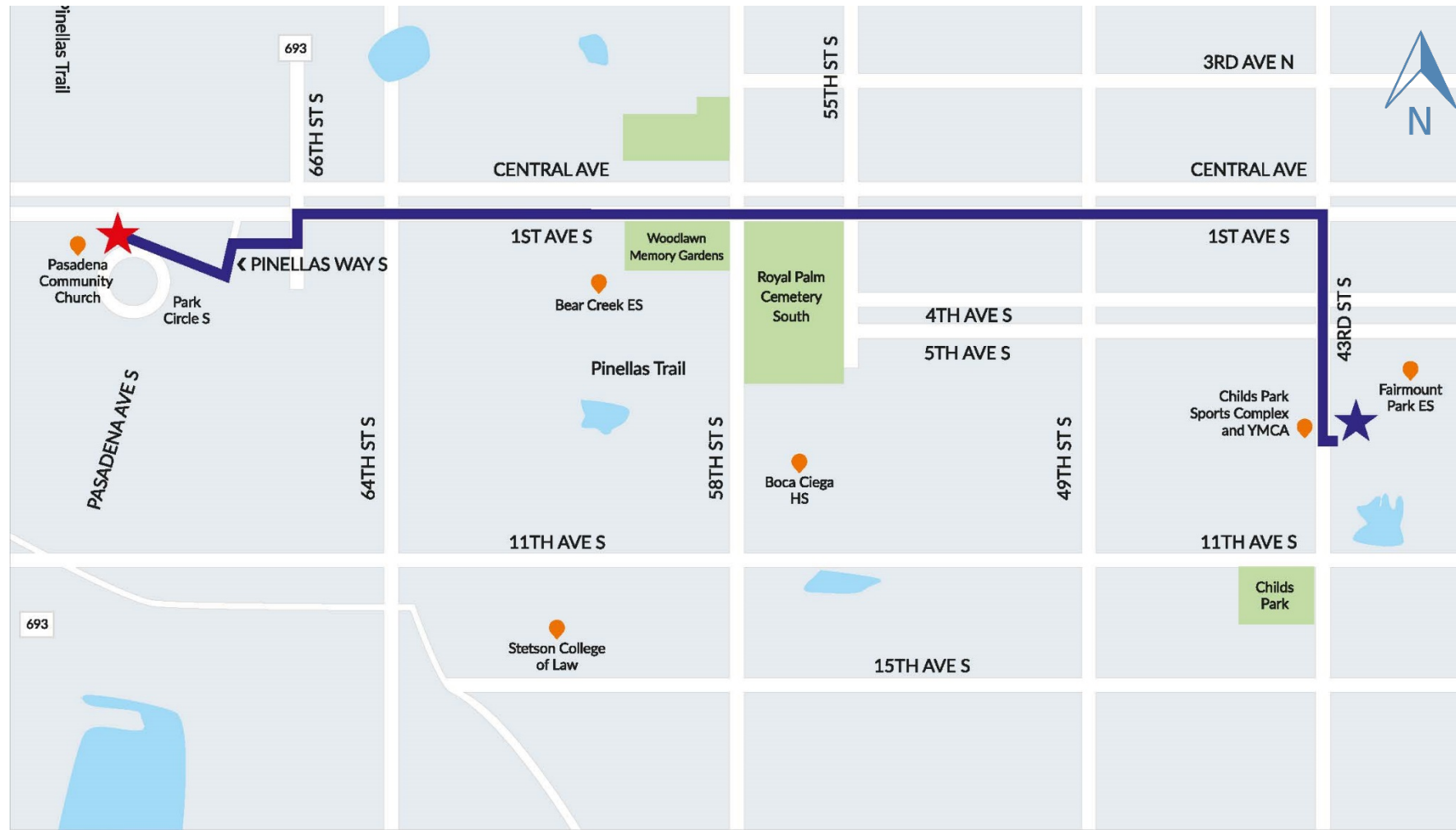
Nov. 18, 2021

MEETING AGENDA

- 6:00 – 6:05 Introductions
- 6:05 – 6:25 Presentation
- 6:25 – 7:25 Questions and Answers
- 7:25 – 7:30 Closing Remarks

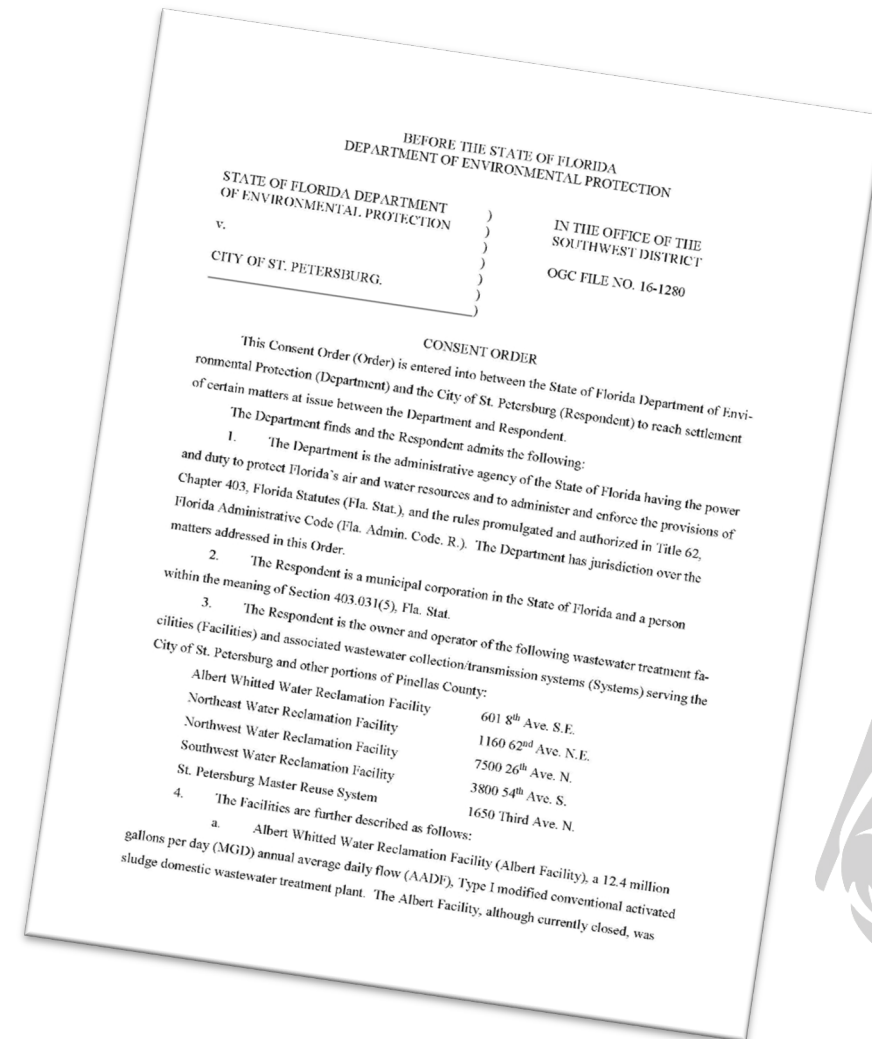


PROJECT LOCATION



ADDRESSING WET WEATHER OVERFLOWS

- Required by Florida Department of Environmental Protection Consent Order No. 16-1280



PROJECT NEED & GOALS

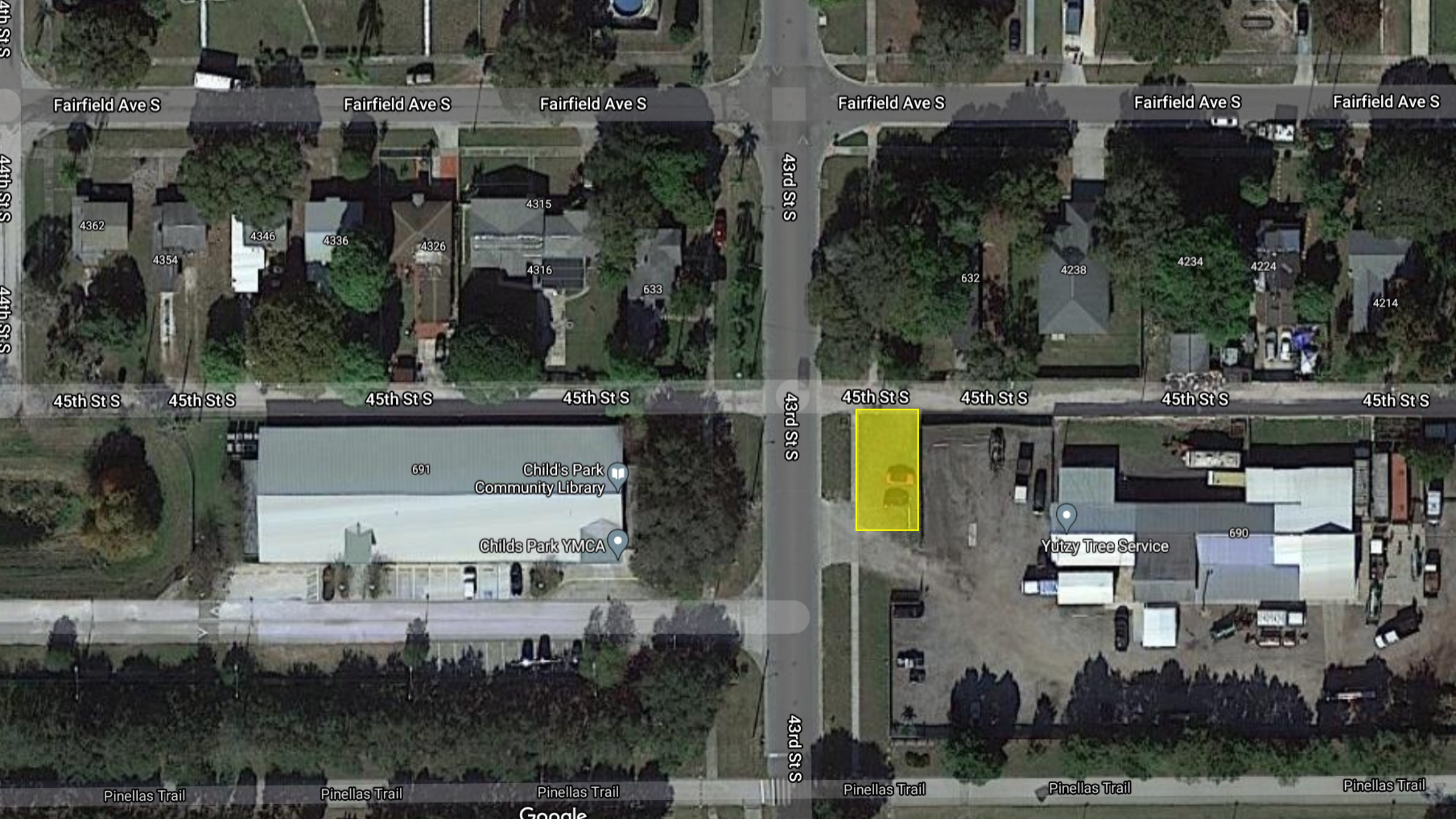
- Minimize potential for wet weather overflows
- Protect the environment & public health
- Move wastewater more efficiently through the system
- Improve wastewater service reliability



SUSTAINABLE INFRASTRUCTURE

- Envision Verification
 - Third-party sustainability certification
 - “Are we doing the right project?” and
 - “Are we doing the project right?”
- Design-build ensures expedited delivery





Fairfield Ave S

Fairfield Ave S

Fairfield Ave S

Fairfield Ave S

Fairfield Ave S

Fairfield Ave S

43rd St S

43rd St S

43rd St S

44th St S

44th St S

45th St S

45th St S

45th St S

45th St S

45th St S

45th St S

45th St S

45th St S

Pinellas Trail

Pinellas Trail

Pinellas Trail

Pinellas Trail

Pinellas Trail

Pinellas Trail

Child's Park
Community Library

Child's Park YMCA

Yutzy Tree Service

Google

SITE SELECTION PROCESS

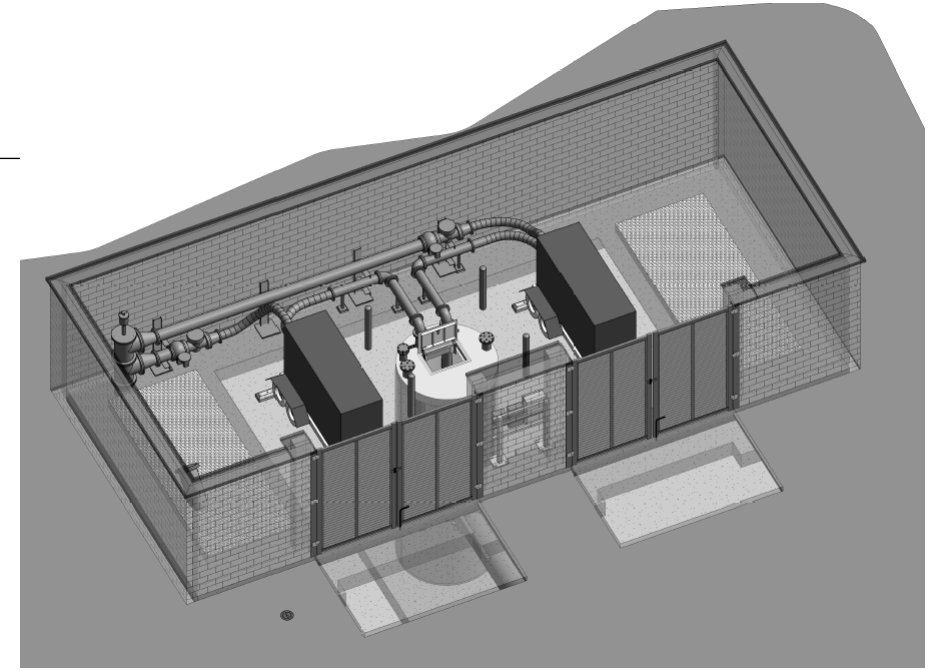
Site selected based on system geography and hydraulics

- Depth of City sewer system
- Ideally situated between Northwest and Southwest water reclamation facilities



NEW UNMANNED LIFT STATION

- Operated manually only during heavy rainfall
- New wet well, connecting pipelines and valves
- Improved operational flexibility:
 - Send wet weather flow to the Northwest or Southwest water reclamation facilities



*3-D Rendering facing 43rd Street S.
Not to scale.*



REPLACING AGING INFRASTRUCTURE



Three aging brick manholes will be replaced

Replacement of approximately 460 feet of sanitary sewer pipe that exhibits signs of degradation



ENGAGING STAKEHOLDERS - PRIMARY

- Neighborhood Associations
 - Field trip with Childs Park representatives
- Residents
- Businesses and Churches
 - YMCA
 - Fairmount Park Elementary School
 - Pasadena Community Church; Faith Fellowship
 - Royal Palm Cemetery, Woodlawn Memory Gardens and more



ENGAGING STAKEHOLDERS - SECONDARY

- Florida Department of Environmental Protection
- Florida Department of Transportation
- Pinellas County Building & Development Right of Way
- PSTA SunRunner



Stakeholder Concern	Action Taken
Visual Appearance	<ul style="list-style-type: none"> Landscaping to beautify lift station enclosure Community coordination for mural on lift station wall
Noise	<ul style="list-style-type: none"> No noise 99% of time (lift station is idle) 12-foot sound attenuating wall <ul style="list-style-type: none"> During operations, target level at 40 feet: 55 decibels
Odor	<ul style="list-style-type: none"> None. Closed system and post-operation cleaning will prevent odors.
Socio-economic	<ul style="list-style-type: none"> No impact. Horizontal directional drilling minimizes impacts on business access. Advance notice of on-street parking closures or limited access.

Stakeholder Concern	Action Taken
Financial	<ul style="list-style-type: none"> • Employment opportunities discussed with Childs Park Neighborhood Association
Safety	<ul style="list-style-type: none"> • Secured work zones; pedestrian and motorist detours/wayfinding signs • Outreach and advance notice to Fairmount Park Elementary School; Argonauta School • Paving alleyway between 66th Street South and Pinellas Way to improve road conditions and safety
Health	<ul style="list-style-type: none"> • No negative impacts; positive impact - minimizing potential overflows protects public health & safety

Stakeholder Concern	Action Taken
Historic/Cultural	<ul style="list-style-type: none"> Supporting Childs Park Neighborhood Association's desire to improve the neighborhood appearance with mural and landscaping
Environmental	<ul style="list-style-type: none"> Protects watershed/waterways from wastewater overflows
Sustainability	<ul style="list-style-type: none"> Mechanical equipment (pumps) maintained off site until needed during heavy rainfall Manual operation eliminates complex power and control systems that would remain primarily unused No potable water connection – wash down and cleaning done using reclaimed water

Stakeholder Concern	Action Taken
Resiliency	<ul style="list-style-type: none"> • Enables transfer of flows between Northwest and Southwest water reclamation facilities for operational redundancy • Fiberglass manholes and wet wells to prevent infiltration as sea level and groundwater rises
Planning/ Interdependency	<ul style="list-style-type: none"> • PSTA Sunrunner • Replacing gravity sewer and manholes on 43rd in conjunction with this project

PROJECT COST & FUNDING

- Estimated project cost: \$ 11.5 million
- Funding source: City's Water Resources Capital Projects Fund
 - Already budgeted for in recent rate analysis
 - No rate increase as a result of this project



SCHEDULE & NEXT STEPS

- Design & Permitting – now thru late 2021
- Public Meeting – Fall 2021
- Construction Start – Late November/Early December 2021
 - Substantial completion – May 23, 2022
 - Final completion – June 2022 (tentative)

Schedule is subject to change based on weather, permitting or other unforeseen conditions.



CONSTRUCTION IMPACTS

- Construction activity, noise and minor vibration from 7 a.m. – 7 p.m. Monday-Friday
 - Some night or weekend work may be required
- Lane closures and detours in construction zone
- Sidewalk closures will be clearly marked



CONSTRUCTION IMPACTS – 1ST AVENUE SOUTH



- South side of 1st Avenue South will be closed
 - Construction will affect City right-of-way, on-street parking, southern-most travel lane
 - Impeded driveway access for 5-7 days during horizontal directional drilling
 - Long segments of fused pipe will be strung along roadway
 - Door hanger in advance of driveway impact

CONSTRUCTION IMPACTS – 43RD STREET SOUTH

- 43rd Street South closed temporarily from YMCA to southwest corner of Fairmount Park Elementary
 - Currently planned for early 2022
 - Will work with YMCA to ensure access
 - No impacts to school
- Temporary lane closures/detours



AFTER THE MEETING



Your input is important!

- www.StPete.org/LiftStation87
- Email: StPeteLS87@gmail.com
- Call: (813) 486-0361
- Fill out survey and provide questions/comments

