

Upcoming Projects 18-month Forecast
Miami-Dade Water and Sewer Department
October 30, 2019

Contents/Overview

- I. Consent Decree (CD)**
- II. Ocean Outfall Legislation (OOL)**
- III. Pump Station Improvement Program (PSIP)**
- III. WASD Managed**



Consent Decree (CD)



CD 1.04 SD Chlorine Building

I. SCOPE:

The Work consists of furnishing materials, labor, and equipment necessary for the rehabilitation of the existing Chlorine Building at the South District Wastewater Treatment Plant owned and operated by the Miami-Dade Water and Sewer Department. At this facility, the existing Motor Control Centers (MCCs) used for the operation of the existing Flushing Water Pumps will be replaced.

II. **ESTIMATED CONSTRUCTION COST:** \$1,488,482.2

III. **ANTICIPATED BID ADVERTISEMENT DATE:** April 2020

IV. **CONSTRUCTION DURATION:** 550 Days

V. **TYPE OF TRADE(S) NEEDED:** Civil/Structural, Mechanical, Plumbing/HVAC, Electrical, Surveying



PROJECT COST: **\$2,645,247**

DESIGNER: **CSA Group**

CD 1.10 SD Odor Control

I. SCOPE:

The Work consists of furnishing all materials, labor, and equipment necessary for replacement of scrubber towers, sensors, ductwork, piping, gaskets, valves, brackets, hangers, recirculation pumps, scrubber fans, chemical storage tanks and feed pumps, chemical loading areas, emergency eye wash, and containment in the scrubber buildings.

II. **ESTIMATED CONSTRUCTION COST:** \$12,191,446

III. **ANTICIPATED BID ADVERTISEMENT DATE:** April 2020

IV. **CONSTRUCTION DURATION:** 680 Days

V. **TYPE OF TRADE(S) NEEDED:** Civil/Structural, Mechanical, Plumbing/HVAC, Electrical, Surveying



PROJECT COST: **\$21,221,080**

DESIGNER: **Stantec**

CD 2.07/2.09 Secondary Clarifiers and Return Sludge PS Plant 1

I. SCOPE:

The Work consists of furnishing materials, labor, and equipment necessary for the construction of RAS Pump Stations No. 1 – 3 at the Central District Wastewater Treatment Plant owned and operated by the Miami-Dade Water and Sewer Department. The project includes the rehabilitation of the RAS Pump Stations and generally includes the replacement and/or refurbishment of existing physical equipment to a condition approaching that of new, the construction of the new Electrical Buildings, and Substations 9 and 10 to house the MCCs, VFDs, and other electrical components.



II. **ESTIMATED CONSTRUCTION COST:** \$14,155,606.00

III. **ANTICIPATED BID ADVERTISEMENT DATE:** July 2020

IV. **CONSTRUCTION DURATION:** 1,740 Days

V. **TYPE OF TRADE(S) NEEDED:** Civil/Structural, Mechanical, Plumbing/HVAC, Electrical, Surveying



PROJECT COST: **\$18,211,642**

DESIGNER: **Stantec**

CD 3.03/3.04 Oxygen Production and Trains

I. SCOPE:

The Work consists of furnishing all materials, labor, and equipment necessary for two new 100 ton per day cryogenic oxygen generation plants with support systems to replace the three existing oxygen generation plants and new oxygen tank mechanical equipment including 16 new mixers/gearboxes/motors

II. **ESTIMATED CONSTRUCTION COST:** \$83,442,296.86

III. **ANTICIPATED BID ADVERTISEMENT DATE:** June 2020

IV. **CONSTRUCTION DURATION:** 1,605 Days

V. **TYPE OF TRADE(S) NEEDED:** Civil/Structural, Mechanical, Plumbing/HVAC, Electrical, Surveying



PROJECT COST: **\$122,653,079**

DESIGNER: **Brown and Caldwell**

Ocean Outfall (OOL)



Ocean Outfall Legislation Program

1. NE-2 – Municipal Injection Wells

- Location: NDWWTP
- Scope: Construction of deep municipal injection wells
- Anticipated Advertisement: Winter 2020
- Estimated Construction Costs: \$55M

2. ST-1B – Step Feed & Oxy. Train Rehab.

- Location: SDWWTP
- Scope: Step feed piping and mixer replacement, associated electrical and structural modifications on existing 7 oxygenation trains
- Anticipated Advertisement: Summer 2020
- Estimated Construction Costs: \$93M

3. ST-2A – Headworks and Oxy. Trains

- Location: SDWWTP
- Scope: New headworks # 3 and two new oxygenation trains
- Anticipated Advertisement: Spring 2020
- Estimated Construction Costs: \$65M

4. ST-2B – Clarifiers and HLD

- Location: SDWWTP
- Scope: Two new clarifiers and expansion of existing deep bed sand filter system
- Anticipated Advertisement: Spring 2020
- Estimated Construction Costs: \$84M

5. ST-2C – CCT and Inj. Well P.S

- Location: SDWWTP
- Scope: New chlorine contact tanks and new injection well pump station
- Anticipated Advertisement: Spring 2020
- Estimated Construction Costs: \$67M

6. ST-2D – Electrical Distribution Building

- Location: SDWWTP
- Scope: New electrical distribution building with switchgear and back-up power with diesel engine generators.
- Anticipated Advertisement: Summer 2020
- Estimated Construction Costs: \$108M

Pump Station Improvement Program (PSIP)



Pump Station Improvement Projects

1. Pump Station 1020 Upgrade

- Location: 31220 SW 134th Avenue, Homestead, FL
- Scope: New wet-well and valve vault submersible pump station
- Anticipated Advertisement: November 2019
- Estimated Construction Cost: \$1 Million

2. Pump Station 1201 Upgrade

- Location: 5301 NW 109 Avenue, Doral, FL
- Scope: Rehabilitation of existing dry-well/wet-well with new standby generator set
- Anticipated Advertisement: November 2019
- Estimated Construction Cost: \$1.2 Million

3. Pump Station 0638 Upgrade

- Location: 17607 SW 119th Avenue, Miami, FL
- Scope: Convert existing dry-well/wet well into a submersible pump station
- Anticipated Advertisement: March 2020
- Estimated Construction Cost: \$1.3 Million

4. Pump Station & Force Main 442 Upgrade

- Location: 20591 NW 30 Ct. Miami Gardens, FL
- Scope: New wet-well and valve vault submersible pump station. Force Main installation via Trenchless Technology
- Anticipated Advertisement: August 2020
- Estimated Construction Cost: \$0.8 Million

5. Pump Station 0344 Upgrade

- Location: 20173 E. Country Club Drive. Miami, FL
- Scope: Convert existing dry-well/wet well into a submersible pump station
- Anticipated Advertisement: October 2020
- Estimated Construction Cost: \$0.8 Million

6. Pump Station 0444 Upgrade

- Location: 2135 NW 207 Street, Miami Gardens, FL
- Scope: New wet-well and valve vault submersible pump station
- Anticipated Advertisement: October 2020
- Estimated Construction Cost: \$0.7 Million

7. Pump Station 0484 Upgrade

- Location: 16547 NW 87 Avenue, Miami Lakes, FL
- Scope: Convert existing dry-well/wet well into a submersible pump station with standby generator set
- Anticipated Advertisement: October 2020
- Estimated Construction Cost: \$0.9 Million

8. Pump Station 0491 Upgrade

- Location: 500 Golden Beach Drive, Golden Beach, FL
- Scope: Convert existing dry-well/wet well into a submersible pump station with standby generator set
- Anticipated Advertisement: October 2020
- Estimated Construction Cost: \$0.8 Million

WASD Managed



Priority Pipeline Projects

1. NL-1A Transmission Force Main Phase I

- Location: NE 163rd St along various roads from NE 8th Ave to Biscayne Blvd.
- Scope: Furnish and install 60 Inch PCCP FM
- Anticipated Advertisement: January 2020
- Estimated Construction Costs: \$28.2 M

2. NL-1A Transmission Force Main Phase II

- Location: NW 162nd St from NW 6th Ave to NE 8th Ave
- Scope: Furnish and install 60 Inch PCCP FM
- Anticipated Advertisement: March 2020
- Estimated Construction Costs: \$25.1M

3. 24 Inch Force Main along NW 170th St.

- Location: NW 170th St. from NW 97th Ave to NW 75th Ave
- Scope: Furnish and install approximately 9,664 LF of 24-inch D.I force main
- Anticipated Advertisement: Spring 2020
- Estimated Construction Costs: \$7.3M

4. Replacement of 8,12 and 16 inch WM in Turnberry Island

- Location: Turnberry Way from William Lehman Cswy to North End of the island
- Scope: Replacement/Rehabilitation of approximately 8,000 LF of corroded water main
- Anticipated Advertisement: Summer 2020
- Estimated Construction Costs: \$2.1M

5. CDWWTP and NDWWTP Ocean Outfall Pipeline

- Location: CDWWTP and NDWWTP Outfalls
- Scope: Furnish and Install Articulated Concrete Mats
- Anticipated Advertisement: Summer 2020
- Estimated Construction Costs: \$1.7M

6. Water Service Conversion from Rear to Front

- Location: Countywide
- Scope: Relocate water service lines from rear of property to meters located in front of the property
- Anticipated Advertisement: Spring 2020
- Estimated Construction Costs: \$10.1M

Pump Stations and General Obligation Bond Projects

1. Pump Station 64 Upgrades

- Location: 1620 S Bayshore Drive, Miami
- Scope: Converting existing dry-well/wet well into a submersible station
- Anticipated Advertisement: Fall 2020
- Estimated Construction Costs: \$1M

2. Pump Station 470 Upgrades

- Location: 18490 NE 28th Ct, Aventura
- Scope: Converting existing dry-well/wet well into a submersible station
- Anticipated Advertisement: Summer 2020
- Estimated Construction Costs: \$1.2M

3. Pump Station 639 Upgrades

- Location: 20008 SW 114th Avenue, Miami
- Scope: Converting existing dry-well/wet well into a submersible station
- Anticipated Advertisement: Fall 2020
- Estimated Construction Costs: \$0.9M

4. Pump Station 659 Upgrades

- Location: 19340 SW 112th Ct, Miami
- Scope: Converting existing dry-well/wet well into a submersible station
- Anticipated Advertisement: Fall 2020
- Estimated Construction Costs: \$0.9M

5. Pump Station 733 Upgrades

- Location: 10820 SW 200th Drive, Miami
- Scope: Converting existing dry-well/wet well into a submersible station
- Anticipated Advertisement: Summer 2020
- Estimated Construction Costs: \$0.8M

6. D2A1 Phase 2 Gravity Extension

- Location: NW 27th Ave from NW 123rd to 107th St.
- Scope: Installing approximately 8,000 LF of gravity sewer
- Anticipated Advertisement: Summer 2020
- Estimated Construction Costs: \$4.2M

Pump Stations and General Obligation Bond Projects

7. Upgrade of PS 772

- Location: 1304 SW 92nd Avenue, 33174
- Scope: Conversion of this PS from a wet well/dry well to a submersible application
- Anticipated Advertisement: December 2019
- Estimated Construction Costs: \$800K

8. Upgrade of PS 673

- Location: 15492 SW 80th Street, 33193
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: December 2019
- Estimated Construction Costs: \$1.2M

9. Upgrade of PS 330

- Location: 6377 Miami Lakeway South, Miami Lakes, 33014
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: January 2020
- Estimated Construction Costs: \$900K

10. Upgrade of PS 520

- Location: 13590 SW 62nd Street, Miami 33183
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: March 2020
- Estimated Construction Costs: \$900K

11. Upgrade of PS 830

- Location: 10451 SW 92nd Street
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: March 2020
- Estimated Construction Costs: \$1M

12. Upgrade of PS 51

- Location: 762 NE 71st, City of Miami, 33138
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: April 2020
- Estimated Construction Costs : \$800K

Pump Stations and General Obligation Bond Projects

13. Upgrade of PS 407

- Location: 6801 NW 186th Street, 33015
- Scope: New submersible PS. Includes demolition and decommissioning of existing PS, new manholes, approx.
- Anticipated Advertisement: April 2020
- Estimated Construction Costs: \$1.6M

14. PS D2-A-2 (New Pump Station)

- Location: 2401 NW 71st Street, Miami 33147
- Scope: New Pump Station
- Anticipated Advertisement: January 2020
- Estimated Construction Costs: \$800K

15. PS S-2 (New Pump Station)

- Location: Intersection of NW 30th Avenue and NW 83rd Street
- Scope: New Pump Station with an emergency generator
- Anticipated Advertisement: November 2020
- Estimated Construction Costs: \$1M

16. Upgrade of PS 1018

- Location: 13151 SW 280th St.
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: November 2020
- Estimated Construction Costs: \$800K

17. Upgrade of PS 103

- Location: 3355 NW 46th Street, 33142
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: May 2020
- Estimated Construction Costs: \$1.2M

Pump Stations and General Obligation Bond Projects

18. S-8 Gravity Basin (Basin of Pump Station 76)

- Location: Area along and in the vicinity of NW 27th Avenue, from NW 32nd St to NW 27th St
- Scope: Installation of approx. 3500 LF of water mains and 4600 LF gravity sewer piping.
- Anticipated Advertisement : January 2020
- Estimated Construction Costs : \$3.5M

19. S-8 Gravity Basin (Basin of Pump Station 73)

- Location: Area along and in the vicinity of NW 27th Avenue, from NW North River Drive to NW 27th St.
- Scope: Installation of approx. 10,400 LF of water mains, including services and 6400 LF gravity sewer piping.
- Anticipated Advertisement : August 2020
- Estimated Construction Costs : \$7M

20. Pipeline Project D2-A-2

- Location: NW 27th Avenue on west, NW 22nd Avenue on the east, between NW 68th Street and NW 71st Streets
- Scope: Installation of approx. 3100 LF of water mains, 5500 LF gravity sewer piping, 1500 LF of force main piping.

- Anticipated Advertisement : January 2020
- Estimated Construction Costs : \$4M

21. Basin S-2, East side of NW 27th Avenue

- Location : Area in the vicinity of NW 27th Avenue, from NW 82nd Street to NW 88th St.
- Scope: Installation of approx. 8700 LF of water main and gravity sewer piping.
- Anticipated Advertisement : Winter 2020
- Estimated Construction Costs : \$4.0M

22. Basin S-2, West side of NW 27th Avenue

- Location : Area between NW 27th Avenue and NW 3rd Avenues, from NW 79th Street to NW 84th St.
- Scope: Installation of approx. 14000 LF of water main and gravity sewer piping.
- Anticipated Advertisement : Winter 2020
- Estimated Construction Costs : \$7M

Pump Stations and General Obligation Bond Projects

23. Upgrade of PS 0071

- Location: 1012 NW 20 Avenue, Miami Florida 33125
- Scope: Electrical equipment upgrade with new valve box, FM piping, road restoration.
- Anticipated Advertisement: May 2020
- Estimated Construction Costs: \$0.9M

24. Upgrade of PS 0132

- Location: 30 Harbor Dr Key Biscayne, FL 33149
- Scope: Electrical equipment upgrade, with new valve box and wet well rehabilitation(if required)
- Anticipated Advertisement: Apr. 2020
- Estimated Construction Costs: \$0.9M

25. Upgrade of PS 1085

- Location: 14050 SW 256 Street, Miami FL 33032
- Scope: Electrical equipment upgrade with new valve box, FM piping, road restoration.
- Anticipated Advertisement: Mar. 2020
- Estimated Construction Costs: \$0.9M

26. PS 0428 -125 KW ONAN GENERATOR REPLACEMENT

- Location: 6452 NW Mediterranean Boulevard Hialeah, FL 33015
- Scope: Demo of existing generator building to install new weather proof generator
- Anticipated Advertisement: Feb. 2020
- Estimated Construction Costs: \$0.5M

27. PS 0429 -125 KW ONAN GENERATOR REPLACEMENT

- Location: 17902 NW Mediterranean Boulevard Hialeah, FL 33015
- Scope: Demo of existing generator building to install new weather proof generator
- Anticipated Advertisement: Feb. 2020
- Estimated Construction Costs: \$0.5M

28. Upgrade of PS 0436

- Location: 19850 NW 59th Place, Miami FL 33015
- Scope: Conversion of this PS from a wet well/dry well to a submersible application.
- Anticipated Advertisement: Jan. 2020
- Estimated Construction Costs: \$0.9M

Pump Stations and General Obligation Bond Projects

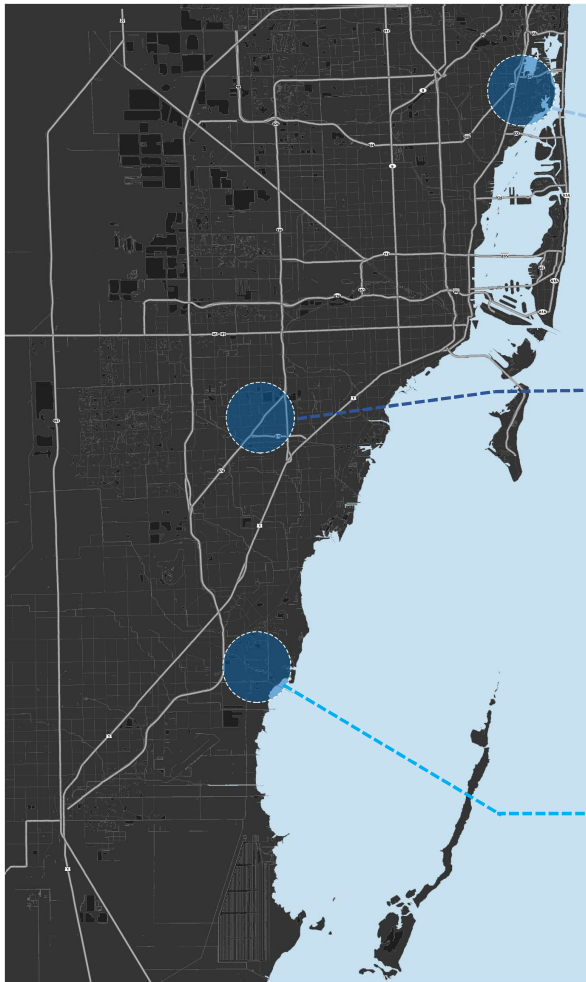
29. PS SUB-BASIN D2-D3

- Location: 14120 NW 8th Avenue, Miami FL 33168
- Scope: New Pump Station
- Anticipated Advertisement: Mar. 2020
- Estimated Construction Costs: \$0.7M

30. PS SUB-BASIN D2-C2

- Location: 2150 NW 878th Street, Miami FL 33147
- Scope: New Pump Station
- Anticipated Advertisement: Jun. 2020
- Estimated Construction Costs: \$0.87M

Treatment Plants



**NORTH DISTRICT
WASTEWATER
TREATMENT PLANT**

NDWWTP Effluent Pump
Station - Electrical Building
Improvements
Bid Advertisement:
March 2020



**ALEXANDER ORR
WATER TREATMENT
PLANT**

AOWTP Replacement of
Two (2) Lime Slaking
Systems
Bid Advertisement:
June 2020

HIGH Service Pump and
Motor Improvements East
& West Room Electrical
Upgrades – VFD
Bid Advertisement:
June 2020



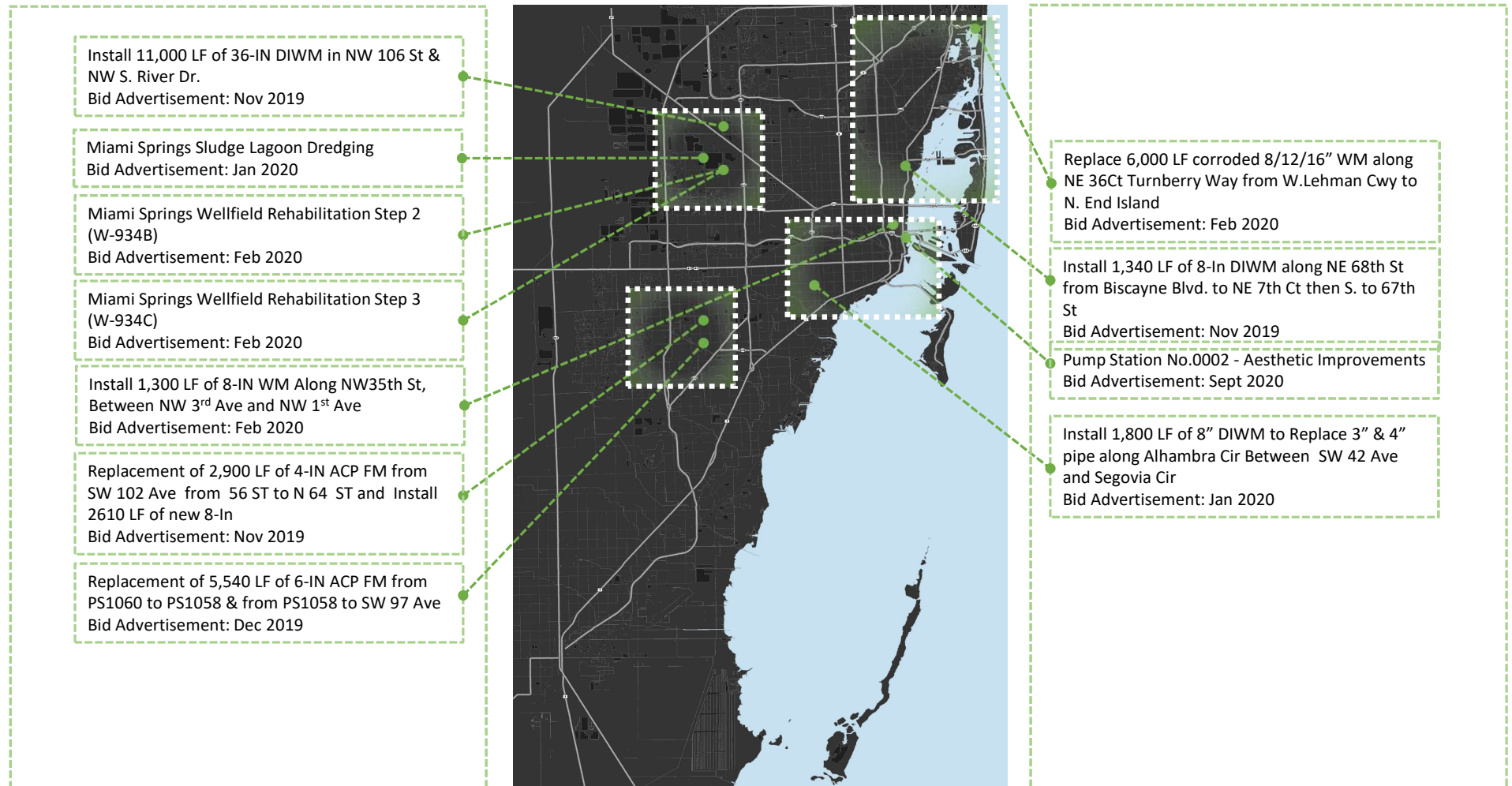
**SOUTH DISTRICT
WASTEWATER
TREATMENT PLANT**

SDWWTP New Regional
Fats, Oils, and Grease
Facility
Bid Advertisement:
June 2020

Replace Flow Meter #P-24
Located at PS 0348
Bid Advertisement:
March 2020

Black Point 40 Year-Old
Building Re-Certification-
Inspection for SDWWTP 24
Bldgs
Bid Advertisement:
Dec 2019

Pipelines



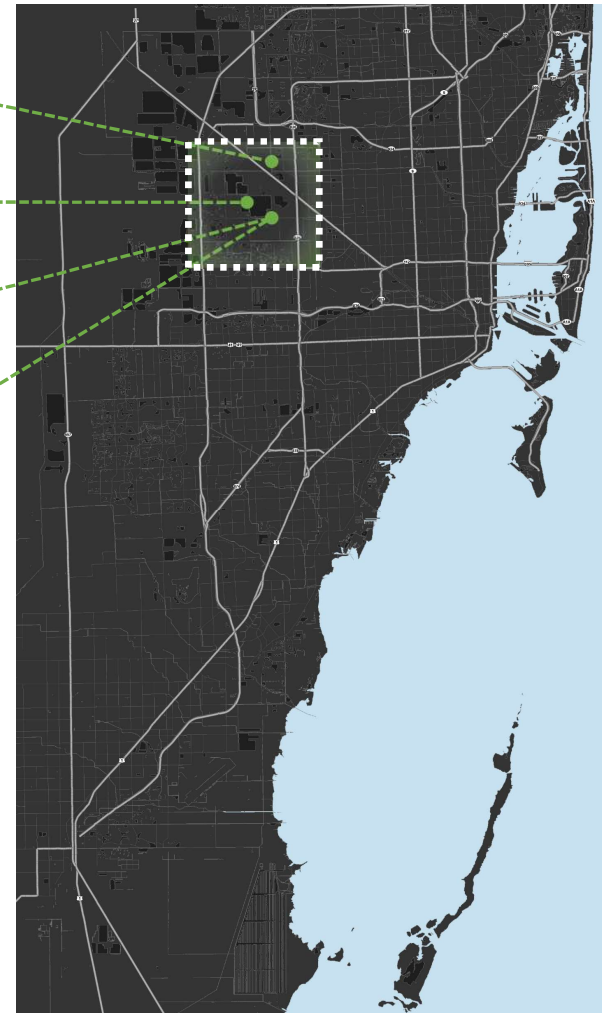
Pipelines

Install 11,000 LF of 36-IN DIWM in NW 106 St
& NW S. River Dr.
Bid Advertisement: Nov 2019

Miami Springs Sludge Lagoon Dredging
Bid Advertisement: Jan 2020

Miami Springs Wellfield Rehabilitation Step 2
(W-934B)
Bid Advertisement: Feb 2020

Miami Springs Wellfield Rehabilitation Step 3
(W-934C)
Bid Advertisement: Feb 2020



Pipelines

Install 11,000 LF of 36-IN DIWM in NW 106 St
& NW S. River Dr.

Bid Advertisement: Nov 2019

Miami Springs Sludge Lagoon Dredging

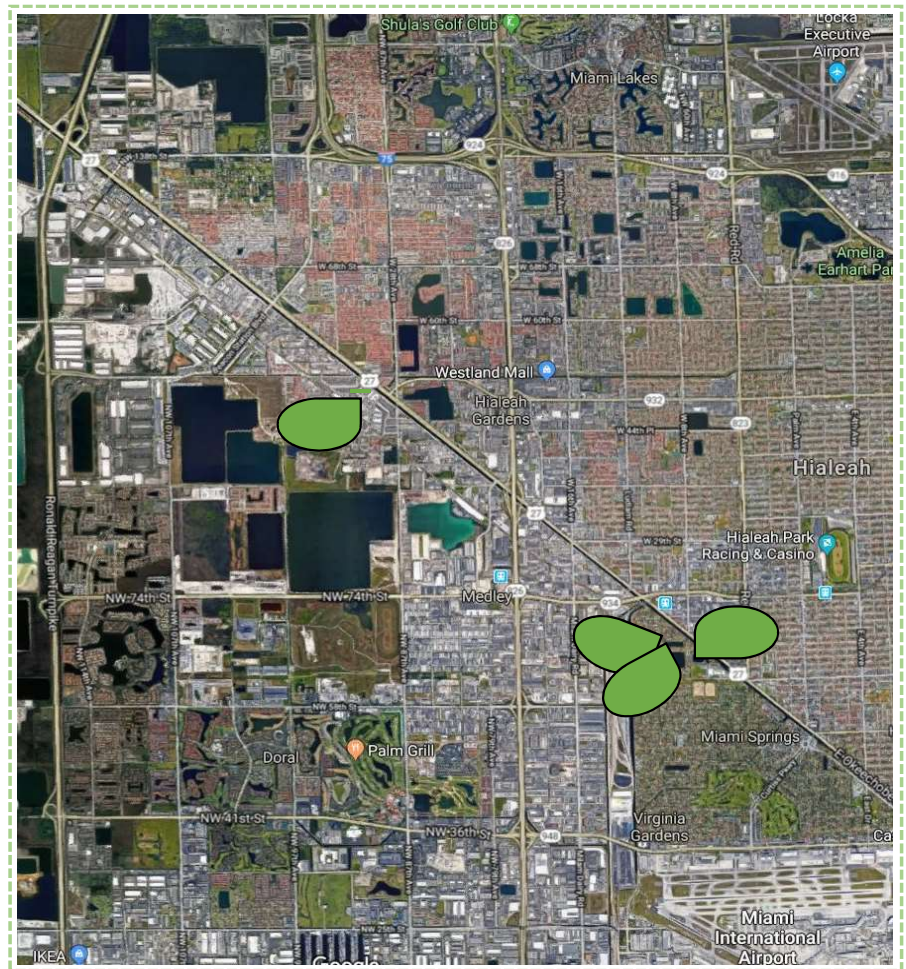
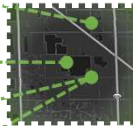
Bid Advertisement: Jan 2020

Miami Springs Wellfield Rehabilitation Step 2
(W-934B)

Bid Advertisement: Feb 2020

Miami Springs Wellfield Rehabilitation Step 3
(W-934C)

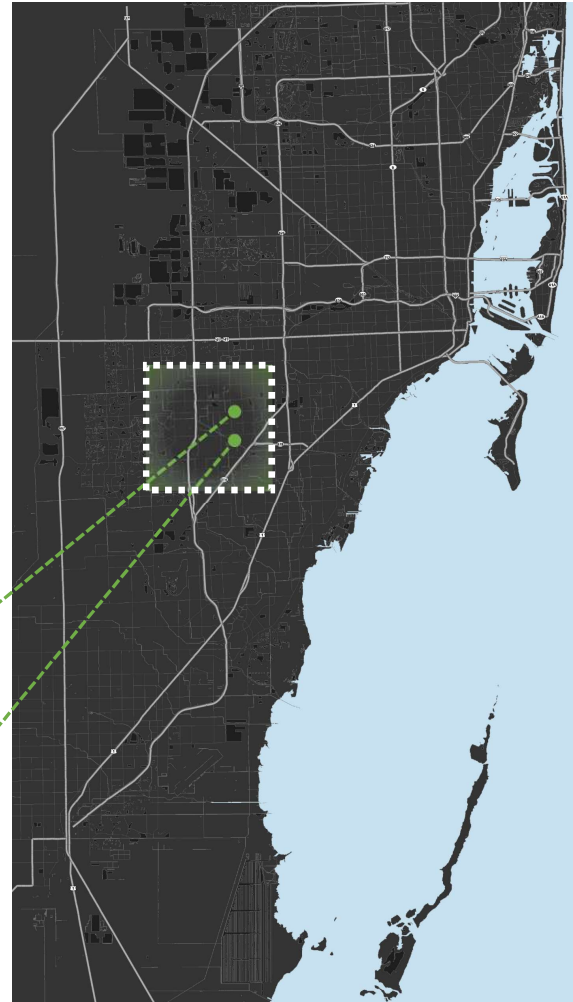
Bid Advertisement: Feb 2020



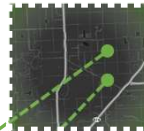
Pipelines

Replacement of 2,900 LF of 4-IN ACP FM
from SW 102 Ave from 56 ST to N 64 ST
and Install 2,610 LF of new 8-In
Bid Advertisement: Nov 2019

Replacement of 5,540 LF of 6-IN ACP FM
from PS1060 to PS1058 & from PS1058 to
SW 97 Ave
Bid Advertisement: Dec 2019

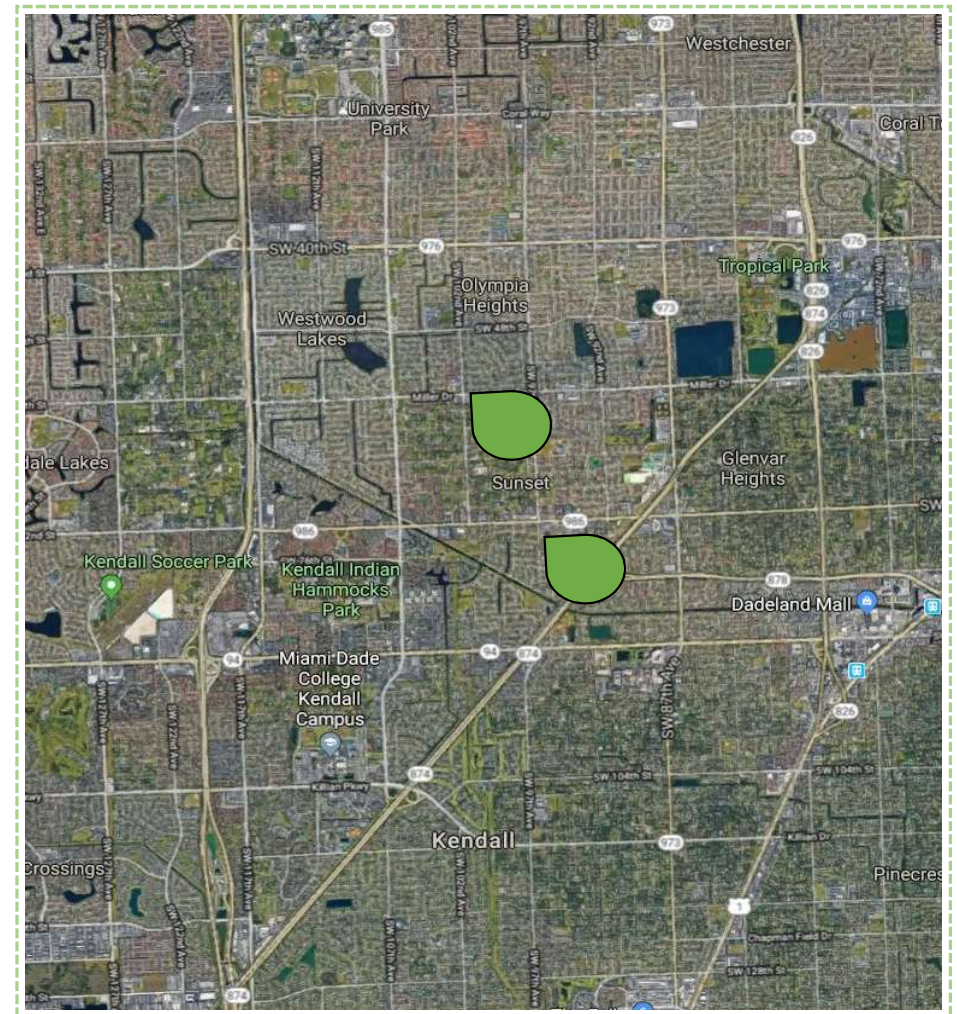


Pipelines

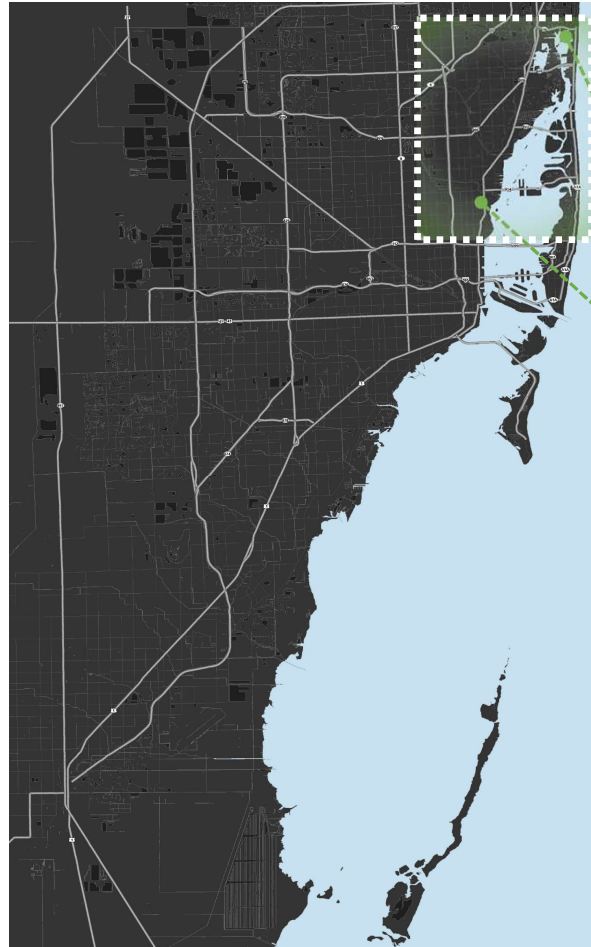


Replacement of 2,900 LF of 4-IN ACP FM from SW 102 Ave from 56 ST to N 64 ST and Install 2610 LF of new 8-In
Bid Advertisement: Nov 2019

Replacement of 5,540 LF of 6-IN ACP FM from PS1060 to PS1058 & from PS1058 to SW 97 Ave
Bid Advertisement: Dec 2019



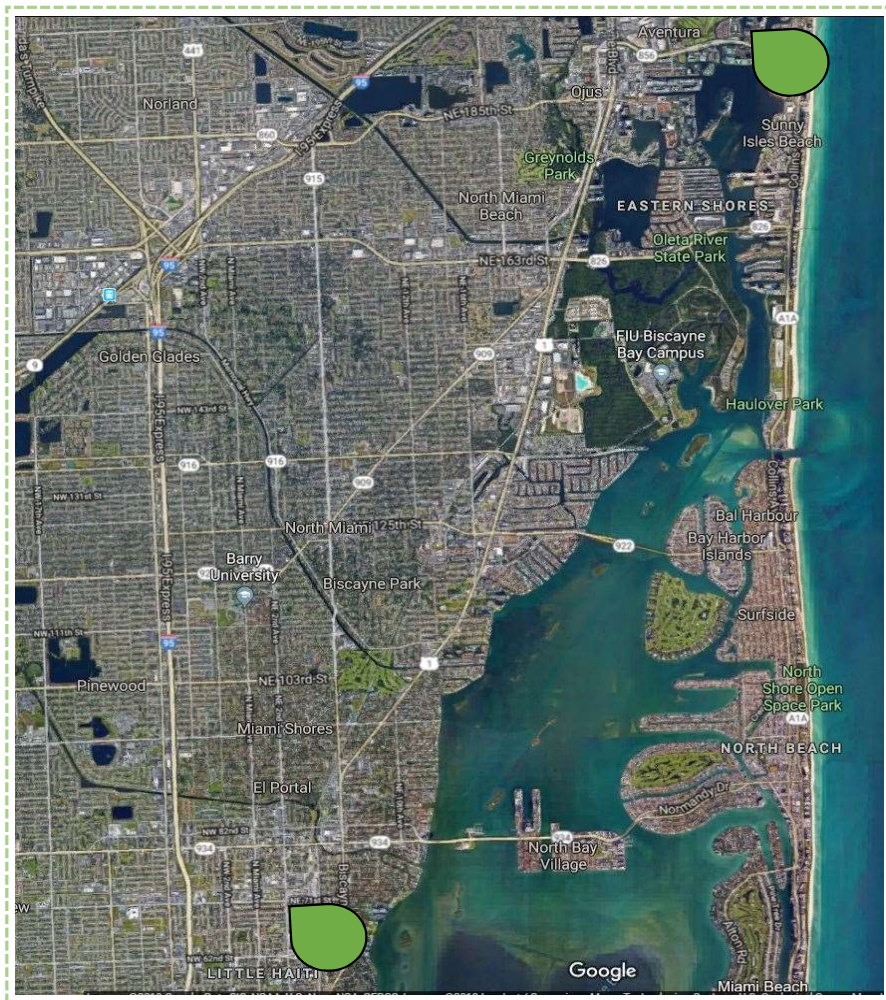
Pipelines



Replace 6,000 LF corroded 8/12/16" WM
along NE 36 Ct Turnberry Way from
W. Lehman Cwy to N. End Island
Bid Advertisement: Feb 2020

Install 1,340 LF of 8-In DIWM along NE 68th St
from Biscayne Blvd. to NE 7th Ct then S. to
67th St
Bid Advertisement: Nov 2019

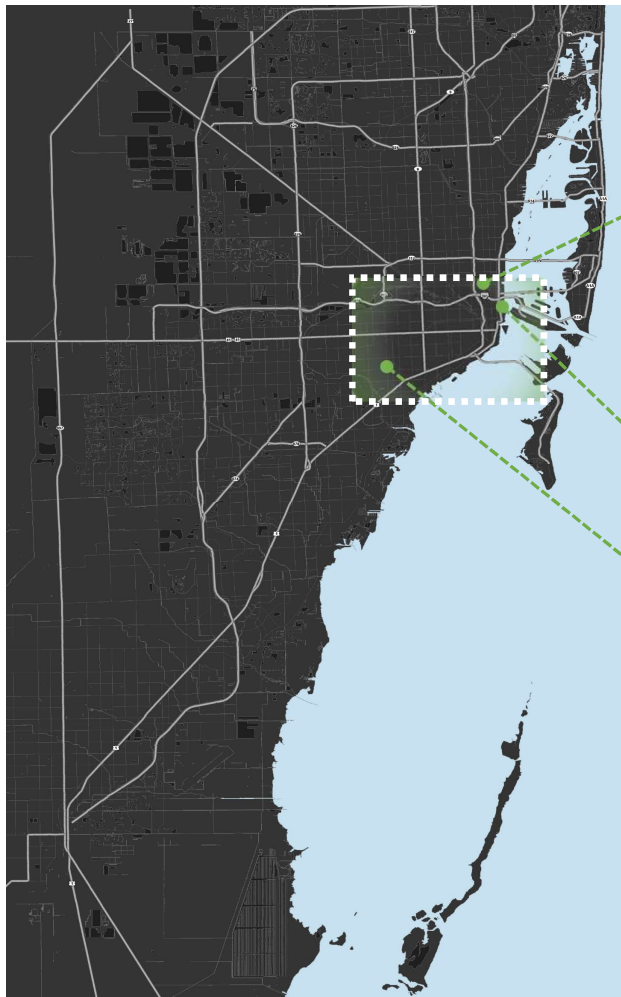
Pipelines



Replace 6,000 LF corroded 8/12/16" WM along NE 36Ct Turnberry Way from W. Lehman Cwy to N End Island
Bid Advertisement: Feb 2020

Install 1,340LF of 8-In DIWM along NE 68th St from Biscayne Blv to NE 7th Ct then S to 67th St
Bid Advertisement: Nov 2019

Pipelines

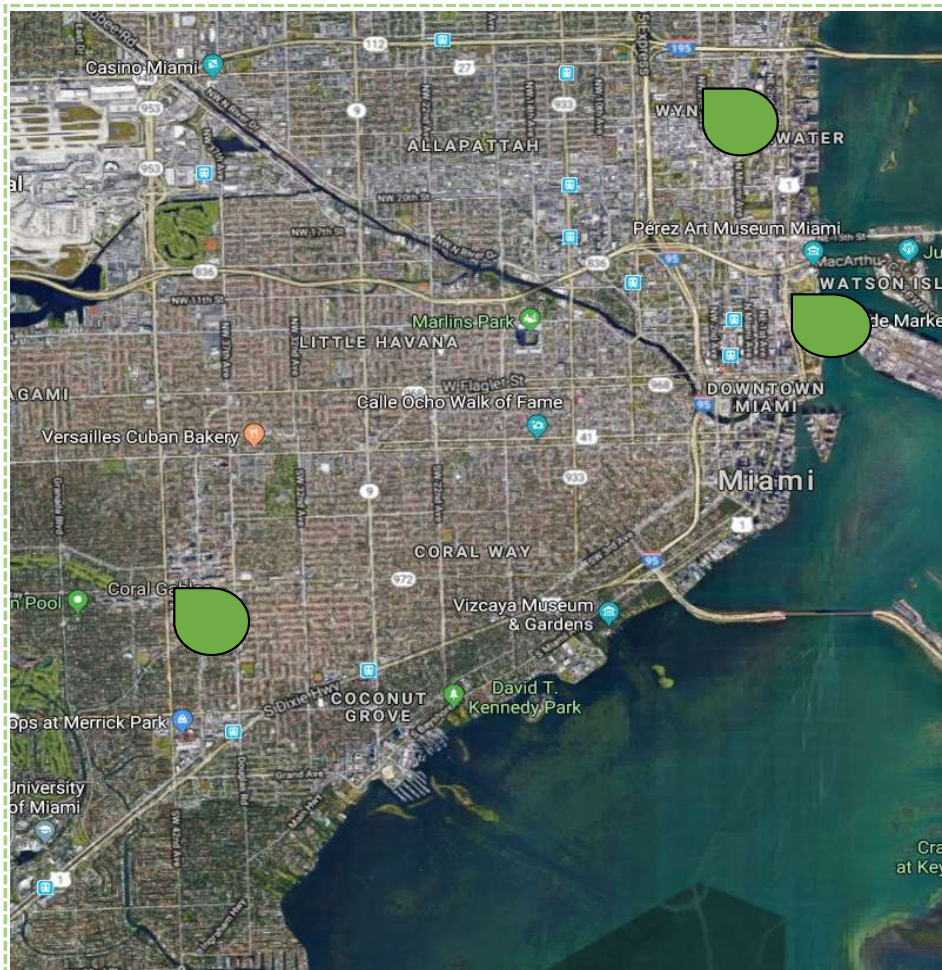


Install 1,300 LF of 8-IN WM Along NW 35th St,
Between NW 3rd Ave and NW 1st Ave
Bid Advertisement: Feb 2020

Pump Station No.0002 - Aesthetic
Improvements
Bid Advertisement: Sept. 2020

Install 1,800 LF of 8" DIWM to Replace 3" & 4"
pipe along Alhambra Cir Between SW 42 Ave
and Segovia Cir
Bid Advertisement: Jan 2020

Pipelines



Future Pipeline Projects for 2019-2020

Install 1,300 LF of 8-IN WM Along NW 35th St,
Between NW 3rd Ave and NW 1st Ave
Bid Advertisement: Feb 2020



Pump Station No.0002 - Aesthetic
Improvements
Bid Advertisement: Sept. 2020
Install 1800 LF of 8" DIWM to Replace 3" & 4"
pipe along Alhambra Cir Between SW 42 Ave
and Segovia Cir
Bid Advertisement: Jan 2020

Pipelines

Install 11,000 LF of 36-IN DIWM in NW 106 St & NW S. River Dr.
Bid Advertisement: Nov 2019

Miami Springs Sludge Lagoon Dredging
Bid Advertisement: Jan 2020

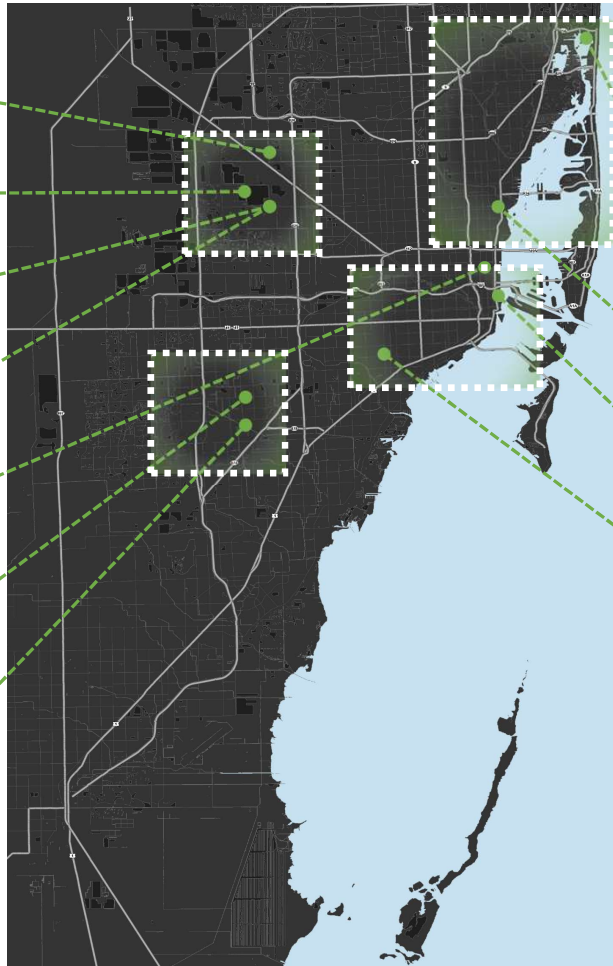
Miami Springs Wellfield Rehabilitation Step 2 (W-934B)
Bid Advertisement: Feb 2020

Miami Springs Wellfield Rehabilitation Step 3 (W-934C)
Bid Advertisement: Feb 2020

Install 1,300 LF of 8-IN WM Along NW 35th St, Between NW 3rd Ave and NW 1st Ave
Bid Advertisement: Feb 2020

Replacement of 2,900 LF of 4-IN ACP FM from SW 102 Ave from 56 ST to N 64 ST and Install 2,610 LF of new 8-In
Bid Advertisement: Nov 2019

Replacement of 5,540 LF of 6-IN ACP FM from PS1060 to PS1058 & from PS1058 to SW 97 Ave
Bid Advertisement: Dec 2019



Replace 6,000 LF corroded 8/12/16" WM along NE 36Ct Turnberry Way from W.Lehman Cwy to N. End Island
Bid Advertisement: Feb 2020

Install 1,340 LF of 8-In DIWM along NE 68th St from Biscayne Blvd. to NE 7th Ct then S to 67th St
Bid Advertisement: Nov 2019

Pump Station No.0002 - Aesthetic Improvements
Bid Advertisement: Sep 2020

Install 1,800 LF of 8" DIWM to Replace 3" & 4" pipe along Alhambra Cir Between SW 42 Ave And Segovia Cir.
Bid Advertisement: Jan 2020