

ADDENDUM NO. ONE

DATE: May 19, 2016
DEPARTMENT: Miami-Dade Water & Sewer Department
ISD PROJECT NAME: Design Services for Wastewater Treatment Plants Related to the Ocean Outfall Legislation Projects
ISD CONTRACT NUMBER: E16-WASD-03
SUBMITTAL DATE: June 10, 2016
CONSULTANT COORDINATOR: Pablo Valin

This Addendum is issued to clarify and/or modify the previously issued Notice to Professional Consultant (NTPC), and is hereby made part of the NTPC. All requirements of the NTPC not modified herein shall remain in full force and effect as originally set forth. Please be sure to acknowledge receipt of this Addendum on the Letter of Qualifications (LOQ) - Section (I) – Project Information.

QUESTIONS:

Q1: Is the PowerPoint presentation shown during the Pre-submittal project briefing going to be made available through an Addendum?

A1: Please refer to the attached PDF copy of the PowerPoint presentation shown during the Pre-submittal project briefing on May 18, 2016.

ALL OTHER PROVISIONS OF THE ORIGINAL “NOTICE TO PROFESSIONAL CONSULTANTS” REMAIN UNCHANGED.

Attachment: PowerPoint Presentation PDF
ec: Patty D Palomo, Miami-Dade County Water & Sewer Department
Clerk of the Board

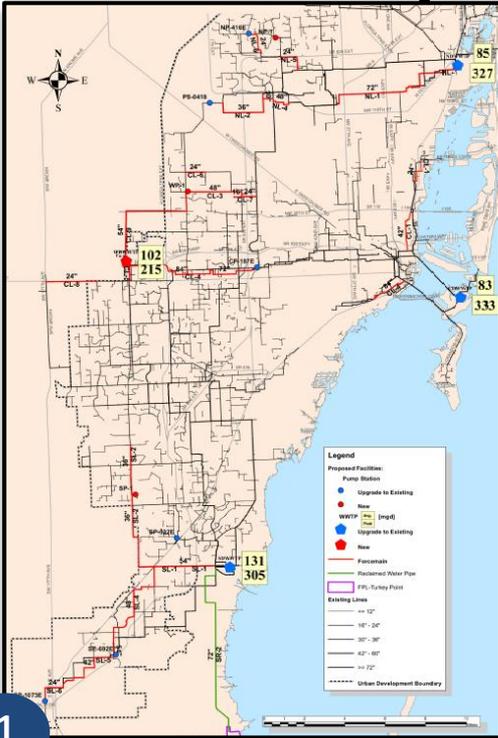
Program Overview for Prospective Design Consultants

OOL Program Overview

Legislative Mandate (Why OOL is needed)

- Florida Legislature requires:
 - Wastewater utilities in southeast Florida using ocean outfalls to dispose of treated wastewater
 - Reduce nutrient discharges by 2018, or meet equivalent cumulative reduction to the outfalls by end of 2025
 - Eliminate the normal use of outfalls by end of 2025 except as a wet weather back-up to an alternative disposal method
 - Reuse system capacity of 60 percent of the baseline wastewater flow by 2025 (117.5 mgd)
- To address this requirement:
 - Miami-Dade Water and Sewer Department (WASD) is implementing system wide wastewater facility upgrades through the Ocean Outfall Legislation (OOL) program.

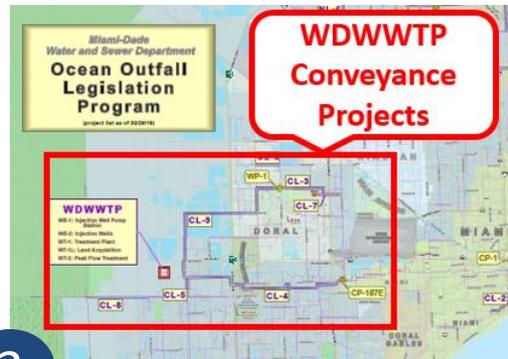
Key Program Components



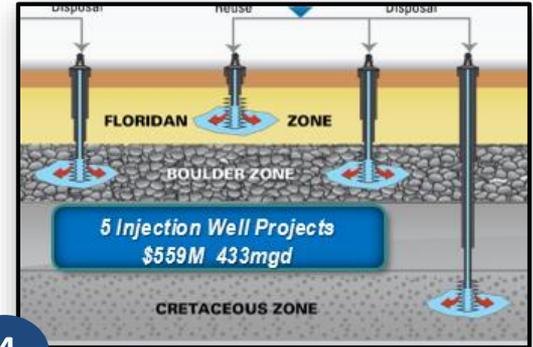
1 Conveyance System Upgrades



2 Existing WWTP Upgrades



3 New WDWWTP



4 Effluent Disposal/Reuse

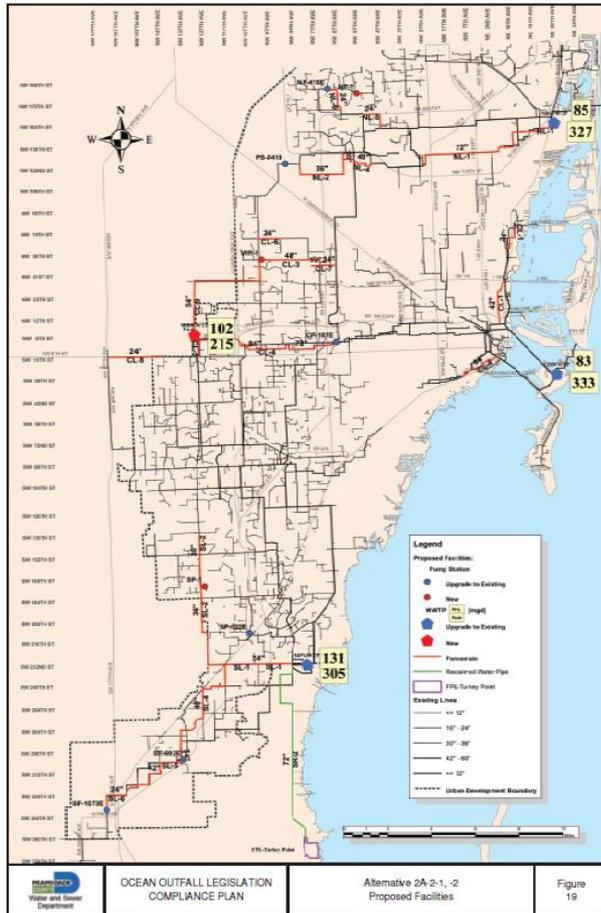


5 Address Sea Level Rise/Climate Change

OOL Program Overview

Alt 2A.2-2 (Where we started)

2013 OOLCP (Alt. 2A.2-2): 57 Projects, \$5.4B system wide solution



- All 57 projects were meant to be implemented together
 - 28 projects directly attributable to the legislation (\$3.3B)
 - 117.5 mgd reuse (FPL and FA Wells)
 - 29 new deep wells
 - 5% allowance for the outfalls
 - New WDWWTWP
 - Rebalanced Conveyance (PS/FM)
 - 29 system capacity improvement projects required to properly manage daily and peak flow demands (\$1.9B to be validated)

Existing WWTP Improvements

2016 Updated Peak Flows



Flows	2013 Plan	Proposed
Peak (mgd)	215	≈254



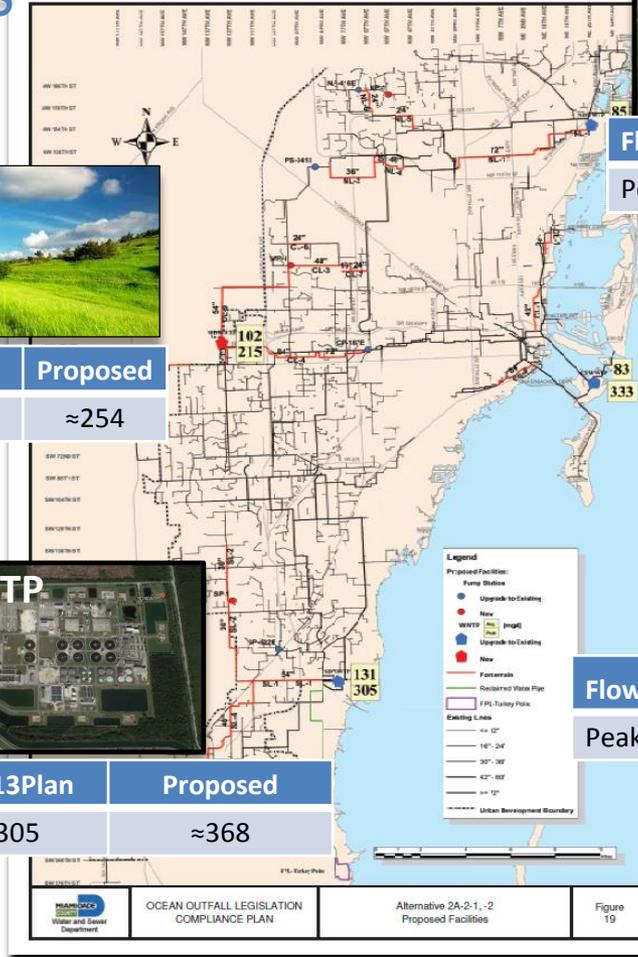
Flows	2013 Plan	Proposed
Peak (mgd)	305	≈368



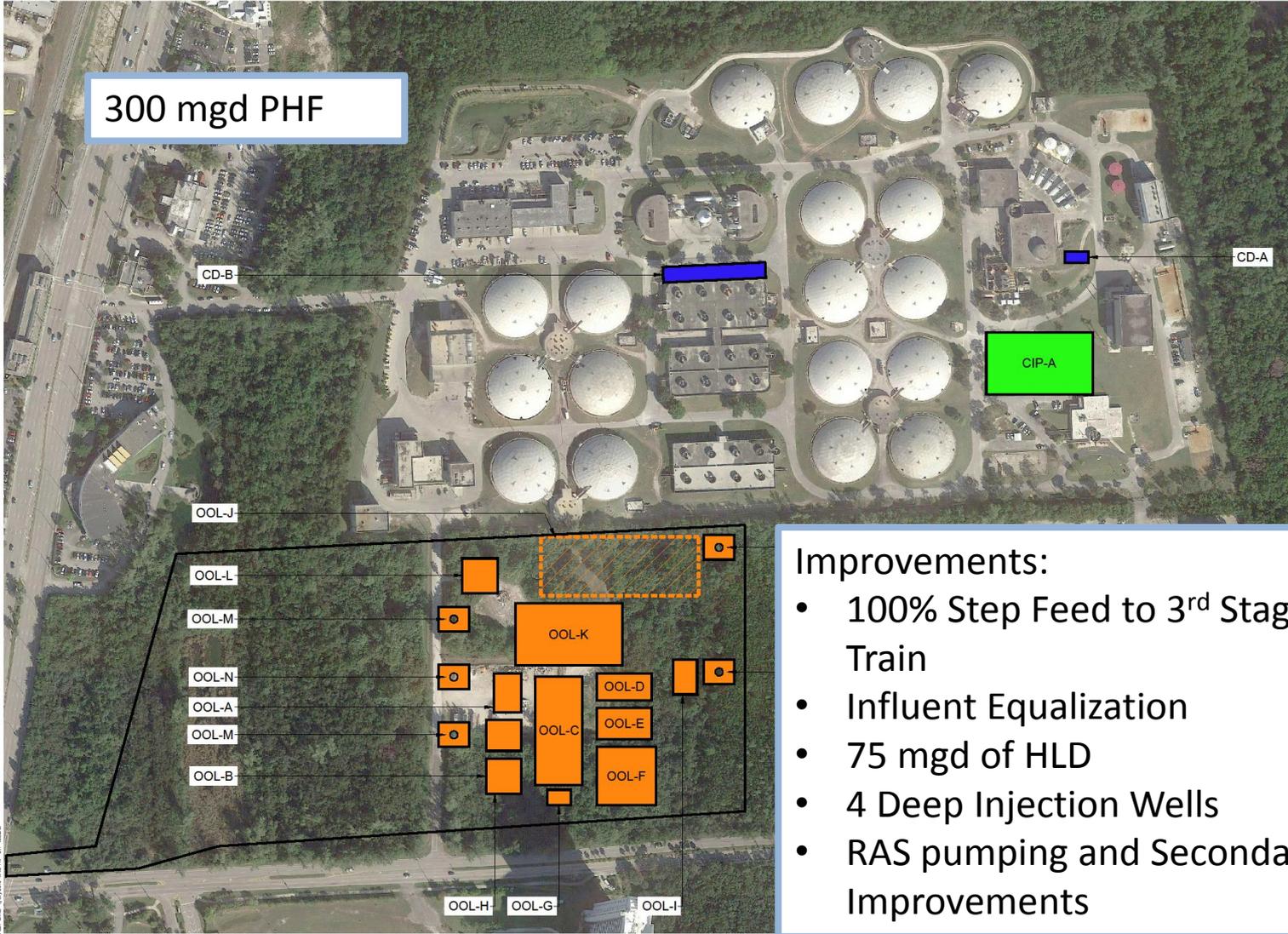
Flows	2013 Plan	Proposed
Peak (mgd)	327	≈300



Flows	2013 Plan	Proposed
Peak (mgd)	333	≈368



MIAMI-DADE WATER AND SEWER DEPARTMENT
 OCEAN OUTFALL LEGISLATION COMPLIANCE PLAN
 Alternative 2A-2-1, -2 Proposed Facilities
 Figure 19



CONSENT DECREE

ITEM No.	DESCRIPTION
CD-A	CD 3.05 CHLORINATION ELECTRICAL BUILDING - 60L x 30W
CD-B	CD 3.03 O2 TRAINING ELECTRICAL BUILDING - 280L x 40W

OCEAN OUTFALL LEGISLATION

ITEM No.	PROJECT ID	DESCRIPTION
OOL-A	NT-2	TRANSFER PUMP STATION - 100L x 70W
OOL-B	NT-2	FLOCCULATION TANK - 80L x 80W
OOL-C	NT-2	TERTIARY FILTER - 280L x 120W
OOL-D	NT-2	CHLORINE CONTACT BASINS - 140L x 70W
OOL-E	NT-2	BACKWASH PUMP STATION - 140L x 60W
OOL-F	NT-2	FILTER BACKWASH EQUALIZATION PUMP STATION - 150L x 150W
OOL-G	NT-2	FILTER BACKWASH EQUALIZATION PUMP STATION - 60L x 40W
OOL-H	NT-2	CHEMICAL FACILITY FOR TERTIARY FILTRATION SYS. - 80L x 60W
OOL-I	NE-1	INJECTION WELL PUMP STATION - 60L x 60W
OOL-J	NT-3	EXCESS PEAK FLOW STORAGE AREA
OOL-K	NT-2	ELECTRICAL BUILDING - 270L x 160W
OOL-L	NE-4	INDUSTRIAL WELL PUMP STATION - 60L x 60W
OOL-M	NE-2	BOULDER ZONE INJECTION WELL
OOL-N	NE-2	DUAL ZONE MONITORING WELL

CAPITAL IMPROVEMENT PLAN

ITEM No.	DESCRIPTION
CIP-A	ELECTRICAL BUILDING - 270L x 160W

LAST REVISED: 4/27/2016

Improvements:

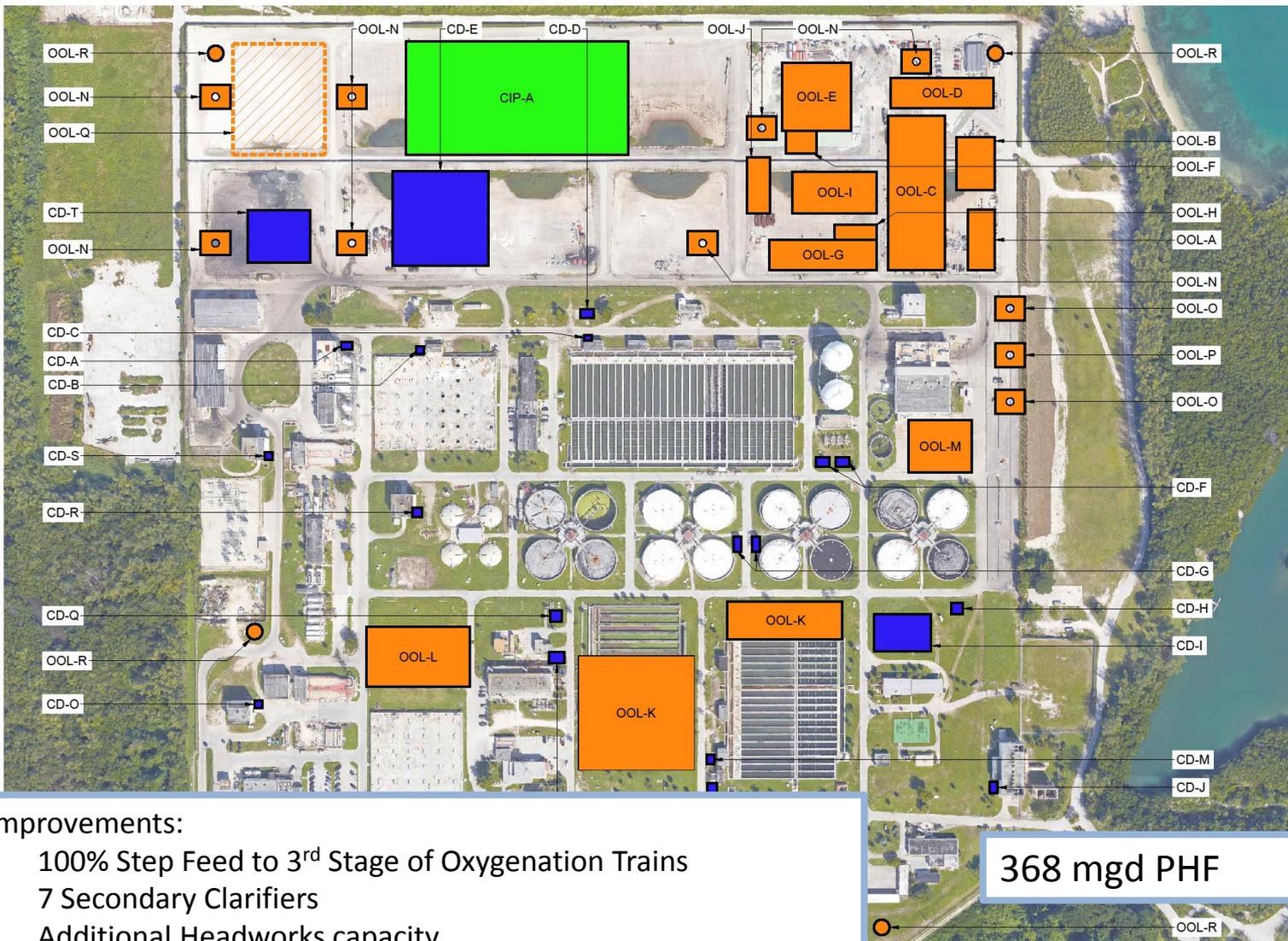
- 100% Step Feed to 3rd Stage of Oxygenation Train
- Influent Equalization
- 75 mgd of HLD
- 4 Deep Injection Wells
- RAS pumping and Secondary Clarifier Improvements

NDWWTP Project Scopes

- Project NT-2: 75 mgd High Level Disinfection (HLD) Capacity
 - Transfer Pump Station
 - Polymer Feed System
 - Rapid Mix/Flocculation Basins
 - Deep-bed Granular Media Filters
 - Filter Backwash System
 - Sodium Hypochlorite Storage and Feed System
 - Chlorine Contact Basins
- Project NT-3: Peak Flow Treatment
 - Implementation of step feed of up to 100% of influent flow to the 3rd stage of the oxygenation trains
 - Possible influent equalization to reduce peak influent flow rate from 300 mgd to 273 mgd. (Volume requirement is being investigated.)
 - RAS pumping and secondary clarifier improvements

NDWWTP Project Scopes (cont.)

- Project NE-1: Injection Well Pump Station
 - Capacity to pump to new municipal deep injection wells
- Project NE-2: Injection Wells
 - 2 Municipal Deep Injection Wells with 18.65 mgd capacity each
- Project NE-4: Industrial Well Pump Station
 - Capacity to pump to new industrial deep injection wells
- Project NE-5: Industrial Wells
 - 2 Industrial Deep Injection Wells with 18.65 mgd capacity each



CONSENT DECREE

ITEM No.	DESCRIPTION
CD-A	CD 2.27 ELECTRICAL BUILDING - 30L x 20W
CD-B	CD 2.06 ELECTRICAL BUILDING - 19L x 15W
CD-C	CD 2.10 BLOWER BUILDING - 20L x 15W
CD-D	CD 2.17 CHLORINATION DAY TANK - 35L x 25W
CD-E	CD 2.16 THICKENING/DEWATERING BUILDING - 250L x 250W
CD-F	CD 2.17 CHLORINATION DAY TANKS - 35L x 25W
CD-G	CD 2.15 ELECTRICAL SUBSTATIONS - 40L x 20W
CD-H	CD 2.15(4) GAS FLARES - 30L x 30W
CD-I	CD 2.17 CHLORINATION MAIN STORAGE BUILDING - 150L x 100W
CD-J	CD 2.11 ELECTRICAL BUILDING - 30L x 20W
CD-K	CD 2.14 GAS FLARES - 30L x 30W
CD-L	CD 2.14 ELECTRICAL SUBSTATIONS - 40L x 20W
CD-M	CD 2.09 BLOWER BUILDING - 20L x 15W
CD-N	CD 2.17 CHLORINATION DAY TANK - 35L x 25W
CD-O	CD 2.18 ELECTRICAL BUILDING - 20L x 20W
CD-P	CD 2.19(2) COGEN GAS DRYERS - 40L x 30W
CD-Q	CD 2.15(1) GAS FLARES - 30L x 30W
CD-R	CD 2.18 ELECTRICAL BUILDING - 20L x 20W
CD-S	CD 2.18 ELECTRICAL BUILDING - 20L x 20W
CD-T	CD 2.27 VPSA BUILDING - 140L x 185W

OCEAN OUTFALL LEGISLATION

ITEM No.	PROJECT ID	DESCRIPTION
OOL-A	CT-2	TRANSFER PUMP STATION - 160L x 70W
OOL-B	CT-2	FLOCCULATION TANK - 140L x 100W
OOL-C	CT-2	TERTIARY FILTERS - 410L x 150W
OOL-D	CT-2	BACKWASH PUMP STATION - 270L x 80W
OOL-E	CT-2	FILTER BACKWASH EQUALIZATION TANK - 180L x 180W
OOL-F	CT-2	FILTER BACKWASH EQUALIZATION TANK PUMP STA - 80L x 80W
OOL-G	CT-2	SODIUM HYPOCHLORITE GENERATION - 280L x 80W
OOL-H	CT-2	SODIUM HYPOCHLORITE STORAGE - 110L x 40W
OOL-I	CT-2	CHLORINE CONTACT BASIN - 220L x 110W
OOL-J	CE-1	INJECTION WELL PUMP STATION - 150L x 60W
OOL-K	CT-2	SECONDARY CLARIFIERS - 300L x 100W
OOL-L	CT-2	ELECTRICAL BUILDING - 270L x 160W
OOL-M	CE-3	INDUSTRIAL WELL PUMP STATION - 165L x 140W
OOL-N	CE-2	NEW BOULDER ZONE INJECTION WELLS
OOL-O	CE-4	CENTRATE DISPOSAL WELLS
OOL-P	CE-2	DUAL ZONE MONITORING WELL
OOL-Q	CT-3	EXCESS PEAK FLOW STORAGE AND HEADWORKS AREA
OOL-R	CR-1	FLORIDAN AQUIFER RECHARGE WELLS

CAPITAL IMPROVEMENT PLAN

ITEM No.	DESCRIPTION
CIP-A	BIOLOGICAL DRYER AREA - 4 ACRES

LAST REVISED: 4/27/2016

368 mgd PHF



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Improvements:

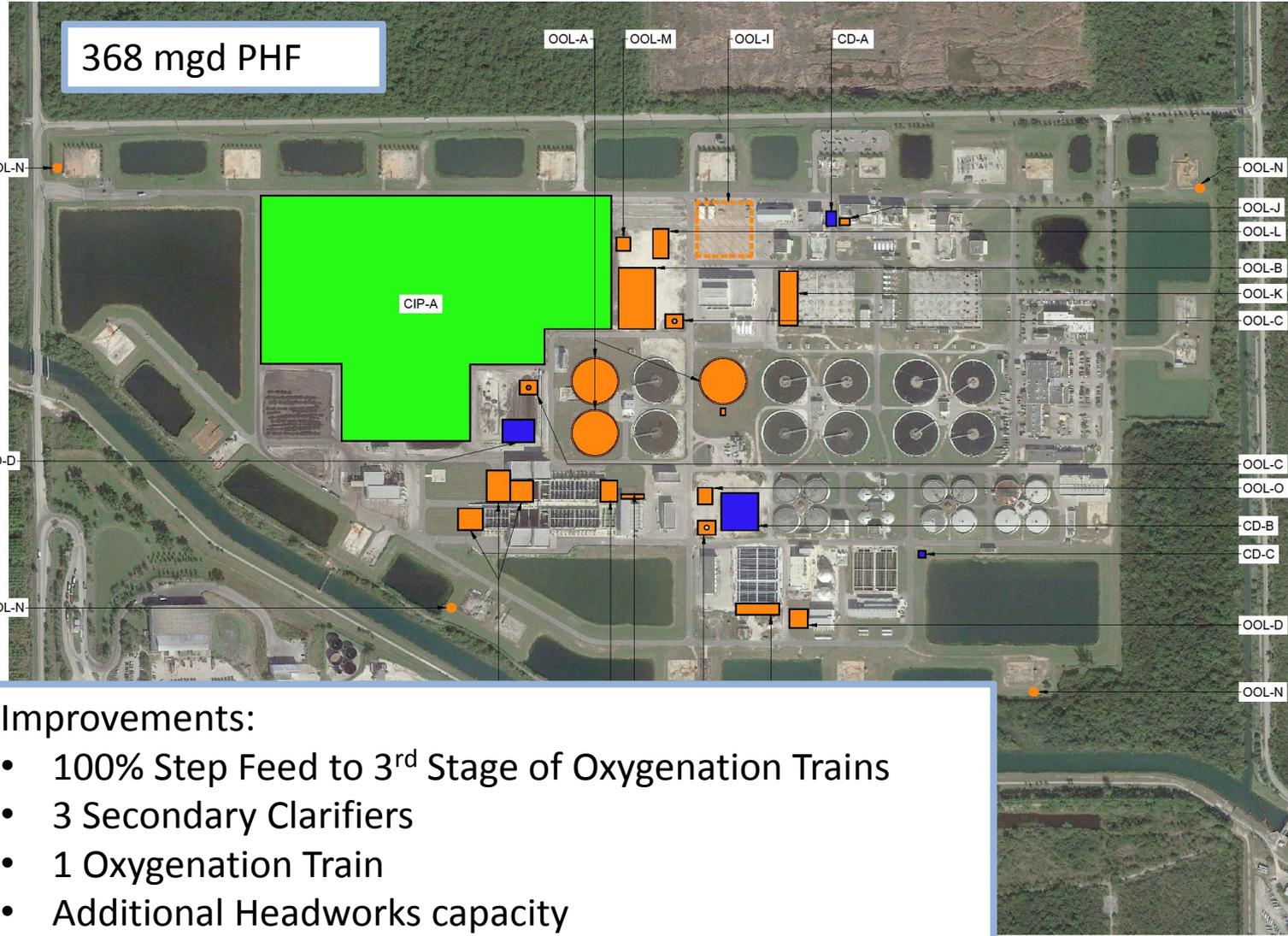
- 100% Step Feed to 3rd Stage of Oxygenation Trains
- 7 Secondary Clarifiers
- Additional Headworks capacity
- 131 mgd of HLD
- 7 Additional Deep Injection Wells
- RAS pumping and Secondary Clarifier Improvements

CDWWTP Project Scopes

- Project CT-2: 131 mgd High Level Disinfection
 - Transfer Pump Station
 - Polymer Feed System
 - Rapid Mix/Flocculation Basins
 - Deep-bed Granular Media Filters
 - Filter Backwash System
 - Sodium Hypochlorite Storage and Feed System
 - Chlorine Contact Basins
- Project CT-3: Peak Flow Treatment
 - Implementation of step feed of up to 100% of influent flow to the 3rd stage of the oxygenation trains
 - 7 new secondary clarifiers
 - RAS pumping and secondary clarifier improvements
 - Headworks capacity expansion

CDWWTP Project Scopes (cont.)

- Project CE-1: Injection Well Pump Station
 - 131 mgd capacity to pump to municipal deep injection wells
- Project CE-2: Injection Wells
 - 7 Municipal Deep Injection Wells with 18.65 mgd capacity each



CONSENT DECREE

ITEM No.	DESCRIPTION
CD-A	CD 1.02 ELECTRICAL BUILDING - 64L x 43W
CD-B	CD 1.07 ACID PHASE DIGESTERS - 150L x 150W
CD-C	CD 1.07 GAS FLARES - 30L x 30W
CD-D	CD 1.06/1.08 THICKENING/DEWATERING BUILDING - 140L x 100W

OCEAN OUTFALL LEGISLATION

ITEM No.	PROJECT ID	DESCRIPTION
OOL-A	ST-1	SECONDARY CLARIFIERS - 204 DIA.
OOL-B	ST-1	ELECTRICAL BUILDING - 270L x 160W
OOL-C	SE-2	BOULDER ZONE INJECTION WELLS
OOL-D	SE-1	INJECTION WELL PUMP STATION - 84L x 80W
OOL-E	ST-2	CHLORINE CONTACT BASIN - 186L x 50W
OOL-F	ST-2	TRANSFER PUMP STATION - 20L x 100W
OOL-G	ST-1	FLOCCULATION TANK - 96L x 74W
OOL-H	ST-2	HLD - TERTIARY FILTERS - 110L x 67W
OOL-I	ST-2	EQUALIZATION STORAGE AREA
OOL-J	ST-1	OXYGEN PLANT No. 4 - 43L x 30W
OOL-K	ST-1	OXYGENATION TRAIN No. 8 - 240L x 80W
OOL-L	ST-1	HEADWORKS - 130L x 86W
OOL-M	ST-1	ODOR CONTROL - 60L x 60W
OOL-N	SR-1	FLORIDIAN AQUIFER RECHARGE WELLS
OOL-O	SE-4	INDUSTRIAL WELL PUMP STATION

CAPITAL IMPROVEMENT PLAN

ITEM No.	DESCRIPTION
CIP-A	BIO-SOLIDS P3 PROJECT

LAST REVISED: 4/28/2016

Improvements:

- 100% Step Feed to 3rd Stage of Oxygenation Trains
- 3 Secondary Clarifiers
- 1 Oxygenation Train
- Additional Headworks capacity
- 83 mgd of HLD
- 5 Additional Deep Injection Wells
- RAS pumping and Secondary Clarifier Improvements

SDWWTP Project Scopes

- Project ST-1: Expansion to 121 mgd AADF/ 305 mgd PHF
 - 100% step feed to 3rd stage of oxygenation trains
 - 1 new oxygenation train
 - 1 new secondary clarifier
 - RAS pump station improvements
 - 20 mgd headworks capacity
 - 20 mgd high level disinfection capacity
 - Transfer Pump Station
 - Polymer Feed System
 - Rapid Mix/Flocculation Basins
 - Deep-bed Granular Media Filters
 - Filter Backwash System
 - Sodium Hypochlorite Storage and Feed System

SDWWTP Project Scopes (cont.)

- Project ST-2: Expansion to 131 mgd AADF/ 368 mgd PHF
 - 2 new secondary clarifiers
 - RAS pump station improvements
 - 63 mgd headworks capacity
 - 63 mgd high level disinfection capacity
 - Transfer Pump Station
 - Polymer Feed System
 - Rapid Mix/Flocculation Basins
 - Deep-bed Granular Media Filters
 - Filter Backwash System
 - Sodium Hypochlorite Storage and Feed System
 - Chlorine Contact Basin

SDWWTP Project Scopes (cont.)

- Project SE-1: Injection Well Pump Station
 - Capacity to pump to new municipal deep injection wells
- Project SE-2: Injection Wells
 - 3 Municipal Deep Injection Wells with 18.65 mgd capacity each
- Project SE-4: Industrial Well Pump Station
 - Capacity to pump to new industrial deep injection wells
- Project SE-5: Industrial Wells
 - 2 Industrial Deep Injection Wells with 18.65 mgd capacity each located off-site