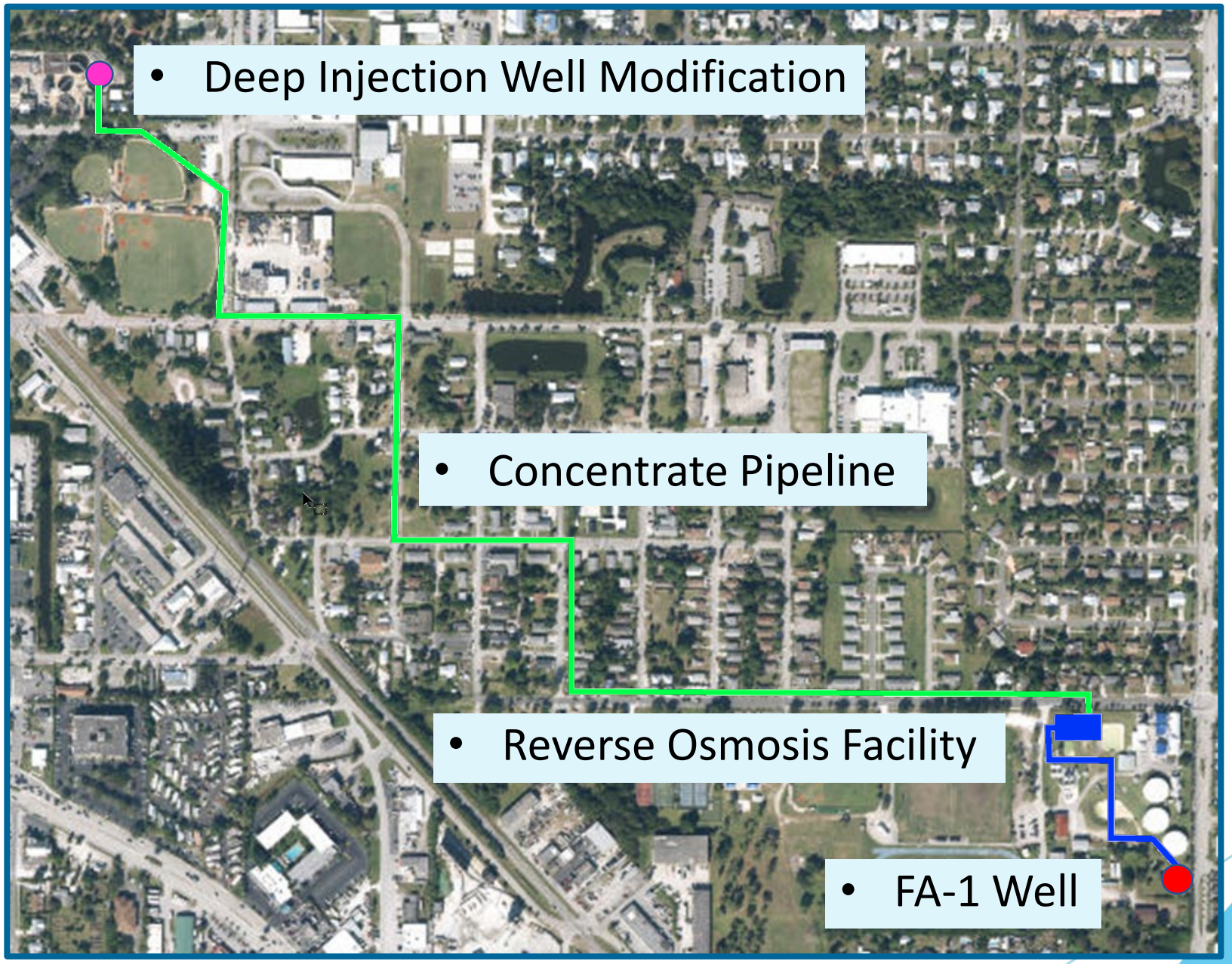
ALTERNATIVE WATER SUPPLY UPDATE



February 8, 2021

City of Stuart
UTILITIES & ENGINEERING

ALTERNATIVE WATER SUPPLY PROJECT COMPONENTS



City of Stuart
UTILITIES & ENGINEERING

FLORIDAN AQUIFER WELL FA-1

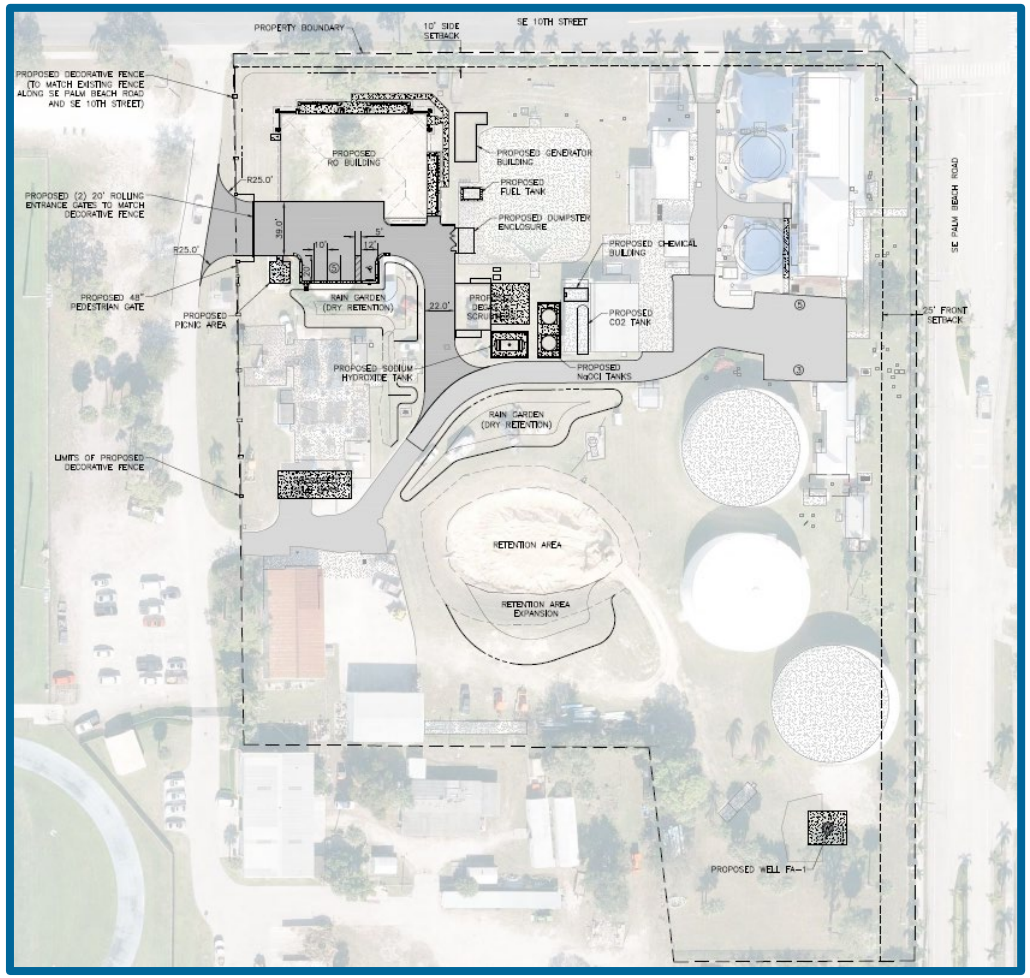
- Completed December 2020
- 1,620 feet below surface (bls)
- Testing of well indicates FA-1 is productive



Floridan Aquifer Well FA-1

City of Stuart
UTILITIES & ENGINEERING

REVERSE OSMOSIS FACILITY DESIGN



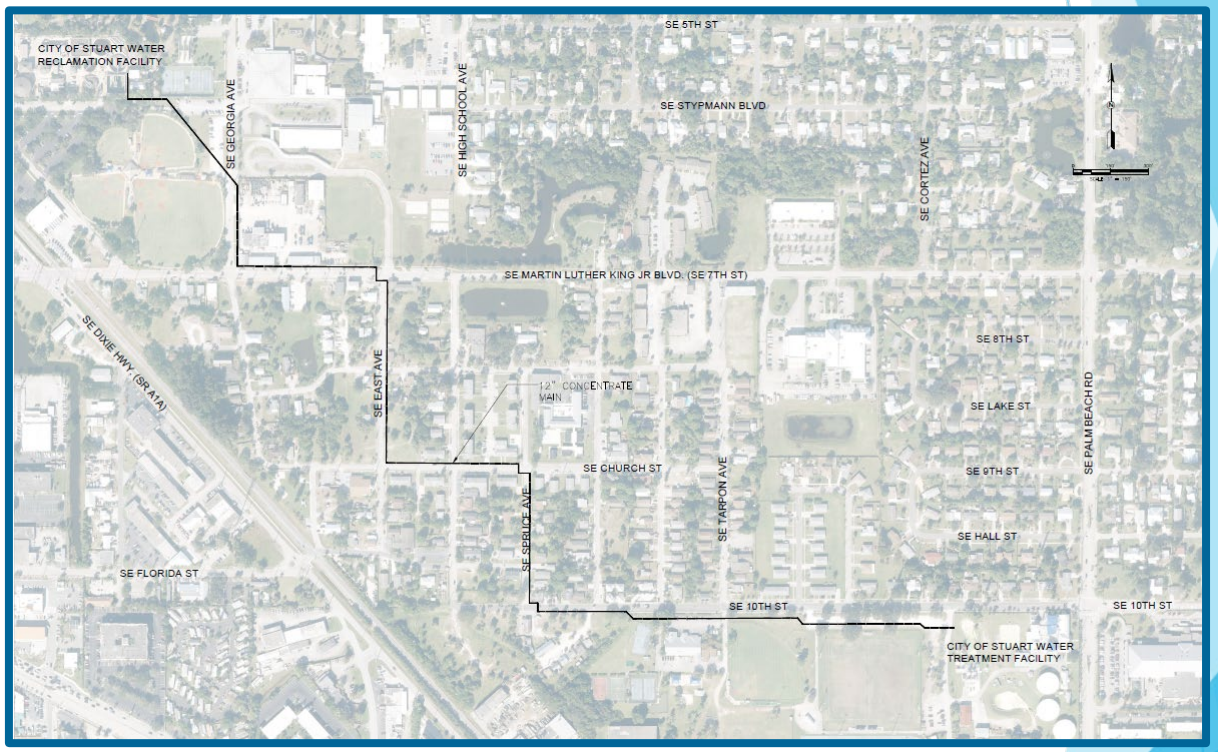
Site Plan

- 100% design complete
- Received FDEP permit for construction of WTP improvements
- Submitted SFWMD Water Use Permit Modification
- Submitted FDEP Environmental Resource Permit
- Submitted City of Stuart Building Department Application

City of Stuart
UTILITIES & ENGINEERING

CONCENTRATE PIPELINE DESIGN

- 90% design complete
- Received FDEP permit for construction of WTP improvements



Concentrate Pipeline

City of Stuart
UTILITIES & ENGINEERING

DEEP INJECTION WELL MODIFICATION DESIGN



Location of Existing Deep Injection Well IW-2

- 60% design complete
- Modification of existing deep injection well IW-2
- Includes new deep monitoring well (DMW-1R)
- Submitted FDEP Injection Well Permit Modification

City of Stuart
UTILITIES & ENGINEERING

PROJECT CONSTRUCTION COSTS

PROJECT COMPONENT	COST
Reverese Osmosis Facility	$14,195,794.47
Concentrate Pipeline	$1,046,100.00
Deep Injection Well Modification	$4,498,593.00
TOTAL	**$19,740,487.47**

***Debt service payments for the above listed improvements were included in the 2017 Water and Wastewater Rate Study

City of Stuart
UTILITIES & ENGINEERING

FUNDING RECEIVED TO DATE

AMOUNT AWARDED	AWARD AGENCY
$100,000	SFWMD Alternative Water Supply Grant for FA-1 Well Construction
$250,000	2019-2020 State Appropriation for design of RO Facility
$460,000	SRF Principal Loan Forgiveness for FA-1 Well Construction
$1,000,000	2020-2021 State Appropriation for RO Facility Construction
$1,810,000	**TOTAL**

City of Stuart
UTILITIES & ENGINEERING

POTENTIAL FUTURE FUNDING

AMOUNT REQUESTED	AGENCY	APPLICATION SUBMITTAL DATE
$11,688,750	Florida Department of Economic Opportunity Community Development Block Grant-Mitigation (CDBG-MIT)	9/8/2020
$500,000	2021-2022 State Appropriation	12/31/2020
$6,500,000	SFWMD Alternative Water Supply Grant	2/26/2021

City of Stuart
UTILITIES & ENGINEERING

QUESTIONS



City of Stuart
UTILITIES & ENGINEERING