



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
4400 PGA BOULEVARD SUITE 500
PALM BEACH GARDENS, FLORIDA 33410

March 21, 2019

Regulatory Division
South Branch
Palm Beach Gardens Permits Section

PUBLIC NOTICE

Permit Application No. SAJ-2012-03350(SP-KDS)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: Palm Beach Aggregates, LLC
20125 State Road 80
P.O. Box 700
Loxahatchee, Florida 33470

WATERWAY AND LOCATION: The project, L-8 Flow Equalization Basin (L-8 FEB) to C-51 Reservoir Connection, would affect waters of the United States associated with L-8 Canal. The project site is located west of 20125 Southern Boulevard, West Palm Beach, Section 20, Township 43 South, Range 40 East, Palm Beach County, Florida.

Directions to the site are as follows: Take Interstate 95 to Southern Boulevard. Head west on Southern Boulevard 19 miles to 210th Trail.

APPROXIMATE CENTRAL COORDINATES: Latitude 26.716136°
Longitude -80.375420°

PROJECT PURPOSE:

Basic: Surface water storage

Overall: Store excess surface water from the C-51 basin to reduce freshwater discharges to the Lake Worth Lagoon and provide an alternative water supply.

Applicant's Project Purpose: The C-51 Reservoir Phase 1 project is comprised of a series of interconnected storage cells with a storage capacity of 14,000 acre-feet. The source of water utilized for storage is excess storm-water which otherwise discharges to tide (principally via the C-51 Canal). Operationally, the flow into the C-51 Reservoir will be gravity fed into the Reservoir from the existing L-8 FEB during wet periods and released back to the L-8 FEB, to the L-8 Canal through existing SFWMD structures and into the regional system during dry periods for subsequent use as an alternate water supply by other users and for environmental benefits.

EXISTING CONDITIONS: Phase 1 of the C-51 Reservoir is approximately 400 acres of a former rock mine pit that is now an open water borrow pit approximately 30 feet in depth, with a storage capacity of approximately 14,000 acre feet of water. The open water borrow pit has steep side slopes, ranging from 1 to 1 to 1.5 to 1, with very little littoral shelves and are relatively unvegetated. Some fish are found within the mining pits, including catfish (*Americus nebulosus*) and potentially largemouth bass (*Micropterus salmoides*) and sunshine bass (*Marone chrysops*). The deeper water depths of the borrow pit contain lower dissolved oxygen levels and generally a rock bottom with some sandy areas. Therefore, it is anticipated that the open water borrow pit bottom is void of vegetation or wildlife utilization due to the low dissolved oxygen levels.

The L-8 Flow Equalization Basin has a storage capacity of approximately 46,000 acre feet of water that can be released in a controlled manner into the regional canal system for restoration under the Comprehensive Everglades Restoration Plan, for water quality buffering in Southeast Florida's Stormwater Treatment Areas (STAs), and for use as a regional water supply.

PROPOSED WORK: The applicant seeks authorization to create a hydraulic connection between the L-8 Flow Equalization Basin (FEB) and the C-51 Reservoir Phase 1. The connection includes the following activities: (1) Installation of two 1,250-foot long, 100-inch inside diameter steel casing pipes installed by below ground microtunneling, (2) installation of a water control structure and pump, and (3) installation of a riprap (15,285 cubic yards or riprap and bedding stone) spillway to prevent erosion and scour of L-8 FEB side slope and bottom.

The C-51 Reservoir Phase 1 project is comprised of a series of interconnected storage cells with a storage capacity of 14,000 acre-feet. The source of water utilized for storage is excess storm-water which otherwise discharges to tide (principally via the C-51 Canal). Operationally, the flow into the C-51 Reservoir will be gravity fed into the Reservoir from the existing L-8 FEB during wet periods and released back to the L-8 FEB, to the L-8 Canal through existing SFWMD structures and into the regional system during dry periods for subsequent use as an alternate water supply by other users and for environmental benefits.

In summary, inflow to Phase 1 of the C-51 Reservoir will be determined by SFWMD operations staff in conjunction with the operation of the L-8 FEB. Excess stormwater will be conveyed into the L-8 FEB through operation of the G-538 structure and then conveyed from the L-8 FEB through the proposed connection into Phase 1 of the C-51 Reservoir, either through gravity flow or with the assistance of top off pumps. Similarly, outflow from Phase 1 of the C-51 Reservoir will be determined by SFWMD operations staff and when staff determines that releases from the C-51 Reservoir are required, the necessary volumes will be conveyed out of Phase 1 of the C-51 Reservoir via opening the gate between the C-51 Reservoir and the L-8 FEB to allow water to move from the C-51 Reservoir to the L-8 FEB, which will then be pumped through the L-

8 FEB Pump Station (G-539) into the L-8 Canal.

AVOIDANCE AND MINIMIZATION INFORMATION – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

“There are no wetland impacts associated with this project.”

COMPENSATORY MITIGATION – The applicant has provided the following explanation why compensatory mitigation should not be required:

“There are no wetland impacts associated with this project.”

CULTURAL RESOURCES: The Corps is not aware of any known historic properties within the permit area. By copy of this public notice, the Corps is providing information for review. Our final determination relative to historic resource impacts is subject to review by and coordination with the State Historic Preservation Officer and those federally recognized tribes with concerns in Florida and the Permit Area.

ENDANGERED SPECIES: The Corps has determined the proposed project may affect, but is not likely to adversely affect the wood stork and the Eastern indigo snake. The Corps has received programmatic concurrence with this determination from U.S. Fish and Wildlife pursuant to Section 7 of the Endangered Species Act.

The Corps has determined the proposal would have no effect on any other listed threatened or endangered species or designated critical habitat.

ESSENTIAL FISH HABITAT (EFH): There is no EFH within the project area.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has not been verified by Corps personnel.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Palm Beach Gardens Section Permits Section, 4400 PGA Boulevard Suite 500, Palm Beach Gardens, Florida 33410 within 30 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to

the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Krista Sabin, in writing at the Palm Beach Gardens Section Permits Section, 4400 PGA Boulevard Suite 500, Palm Beach Gardens, Florida 33410; by electronic mail at Krista.D.Sabin@usace.army.mil; or, by telephone at (561)472-3506.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

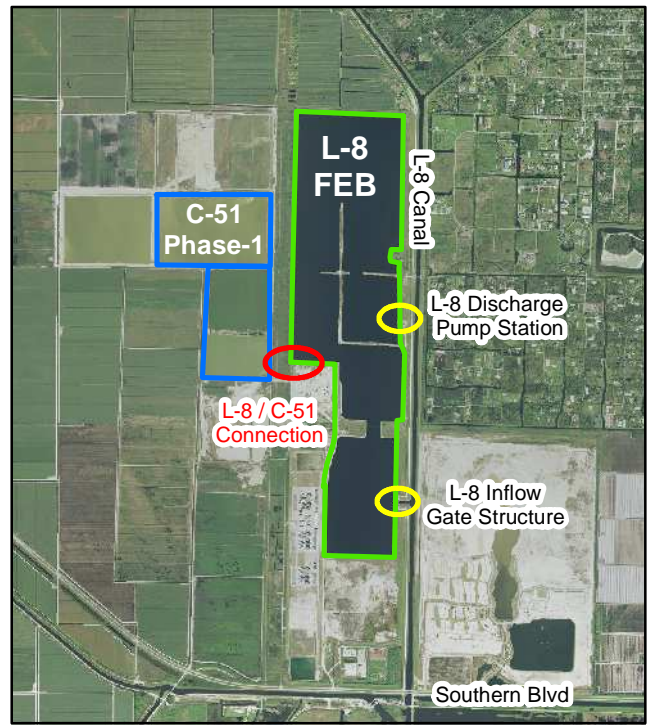
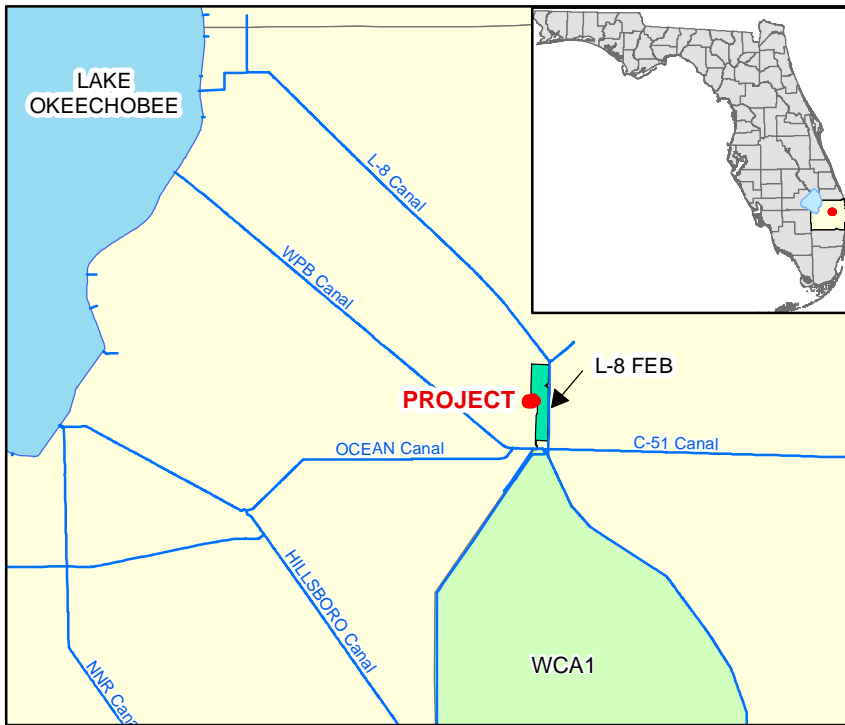
EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

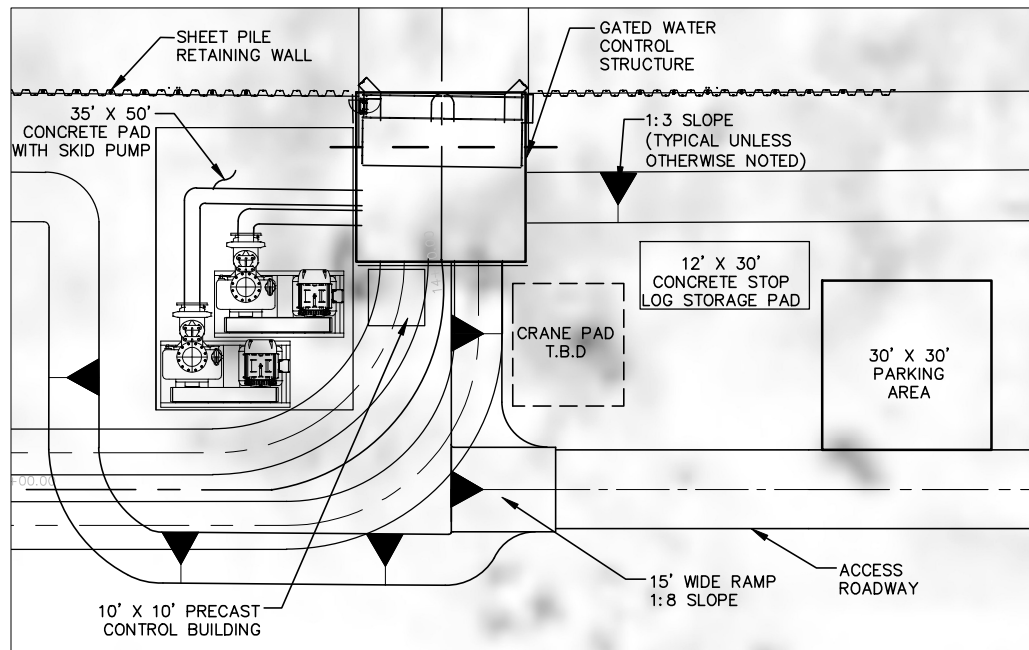
COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and

Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

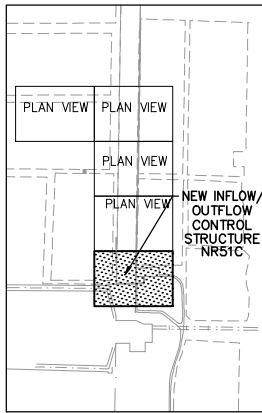
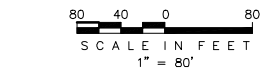
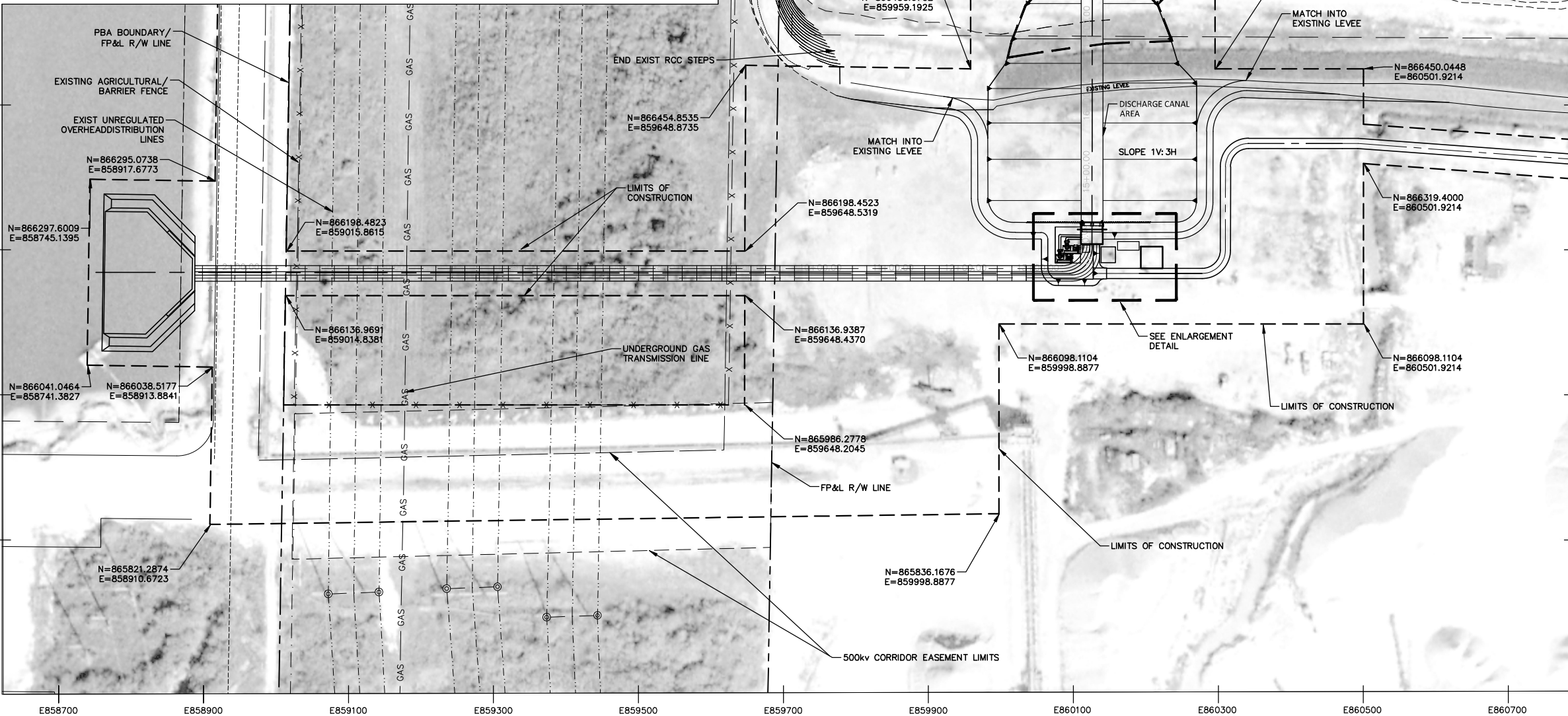
REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.



C-51 RESERVOIR, Hydraulic Facilities
Site Map



ENLARGEMENT DETAIL



KEY PLAN
NTS

CONVERSION FACTOR NOTE:
ALL ELEVATIONS REFERENCE NAVD88.
ADD +1.43 FEET TO CONVERT NAVD88 TO NGVD29.

ENGINEER OF RECORD: PATRICK KEITH
FL. ENGINEERING CERTIFICATE NO.: 73497

NorthStar NorthStar Contracting Group, Inc. 1720 Calhoun Drive East, Suite 101, Ft. Lauderdale, FL 33304 Ph: (561) 884-5474 Fax: (561) 884-5419 FL COA No. 30941	
ENGINEER: P. KEITH	DATE: JUNE 2018
DRAWN: V. ADAMANY	REVISION DESCRIPTION
CHECKED: P. KEITH	
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Palm Beach Aggregates, LLC PHONE: 561-795-6550 20125 STATE ROAD 80, PO BOX 700 LOXAHATCHEE, FLORIDA 33470 Scale: After NOV 2018/Plan View Layout-Option 1A-1B.dwg - Monday, January 14, 2019 7:58:13 AM	C-51 RESERVOIR HYDRAULIC FACILITIES SITE LAYOUT
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