

COUNTY LINE DRAINAGE DISTRICT **WATER CONTROL PLAN** **2000**

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1.0) INTRODUCTION

The County Line Drainage District (District) is located in the Northeastern corner of Lee County, Florida, as illustrated in Figure 1.

The District is an agricultural one, used primarily to grow citrus crops.

Under the provisions set forth in Chapter 298, Florida Statutes (FS), the District provides water control and roadway maintenance services to the lands of the District, which encompass over 3,700 acres of citrus groves. These services are provided in accordance with the original Plan of Reclamation. The Plan of Reclamation describes a system of main, lateral, and sublateral canals which allow both irrigation and drainage of the District lands.

This Water Control Plan has been prepared to comply with the revised standards for all water control district plans, as set forth in Chapter 298, FS.

2.0) STATUTORY RESPONSIBILITIES AND POWERS

Narrative descriptions of the statutory responsibilities and powers of the district.

CLDD was established by judgment of the court of the Twelfth Judicial Circuit of Florida on April 3, 1967 (Exhibit A) and was given additional powers by legislative act (chapter 67-723, Laws of Florida) on August 4, 1967 (Exhibit C) as provided by Section 298.76, Florida Statutes.

It has been determined, declared and enacted that the lands in the district in their natural condition are wet and subject to overflow, and that the drainage, reclamation and protection of said lands from the effect of water and thereby the making of said lands available for agricultural, settlement, urban and subdivision purposes by drainage, reclamation and improvement, and the creation of said district with the powers vested in it by its act, are in the interest of and conducive to public welfare, health and convenience. It is further declared that in said district, surface waters, which shall include rainfall from the overflow of rivers and streams are a common enemy, and said district and any individual or agency holding a permit to do so from said district, shall have the right to dike, dam and construct levees to protect the said district or any part thereof, or the property of said individual or agency against the same, and thereby divert the course and flow of such surface waters or pump the water from within such dikes and levees.

In accordance with the original Plan of Reclamation, the District has historically provided water control to its landowners. The Water Control Plan included in the Plan of Reclamation provides for drainage and irrigation by means of main canals, lateral canals, sublateral canals, and control structures.

In addition, and not in limitation of the powers and authorities of the district under chapter 298, Florida Statutes, and amendments thereto, the district shall have the following powers to adopt a water control plan, and to own, acquire, construct, reconstruct, equip, operate, maintain, extend and improve canals, ditches, drains, dikes, levies, pumps, plants and plumbing systems and other works for drainage purposes, and irrigation works, machinery and plants, to own, acquire, construct, reconstruct, equip, maintain, operate, extend and improve water and flood control facilities, road, to regulate the supply and level of water within the district; and to take all measures determined by the board of supervisors to be necessary or desirable to prevent or alleviate land erosion and to provide for the irrigation of crops growing upon land.

County Line Drainage District, a public corporation of this state, created herein and under chapter 298, Florida Statutes, shall be governed by provisions of the general drainage laws of Florida applicable to such drainage districts or sub-drainage districts which are embodied in chapter 298, Florida

Statutes, and all of the laws amendatory thereof, now existing or hereafter enacted, so far as not inconsistent with this act or any subsequent special acts relating to County Line Drainage District. All actions approved by the court, shall be deemed to be the action of the legislature.

3.0) DISTRICT BOUNDARIES

A map delineating the legal boundary of the district and identifying any subdistricts or units within the district.

3.1) District Boundaries

The territorial boundaries of the District are illustrated in Figure 6.

4.0) EXISTING LAND USES, SERVICES, AND FACILITIES

Narrative descriptions of land use within the district and existing district facilities and their purpose and function, and a map depicting their locations.

4.1) Land Uses

The District lands are mainly used for citrus production, and encompass approximately 3,732 acres of citrus groves. Approximately 5 acres in the southeastern-most section of the District (Section 13) are used for a gated entrance, and a vehicle canker wash system. Florida Agro Management's office and citrus operations are also located in this section, near the entrance to the District from SR 78.

4.2) Services

The District provides water control and roadway maintenance services to the lands of the District, which encompass over 3,732 acres of citrus groves. These services are provided in accordance with the original Plan of Reclamation, as amended.

Historically, the irrigation water for the CLDD system is supplied from several storage pits located in the southern portion of the District. Several pumps, located throughout the system pump the water from the pits or intermediate transfer areas to other areas of the District. Figure 2 shows the existing water storage areas and pump locations.

In addition to irrigation services, the District provides and maintains a system of shell rock roads which provide access to all lands of the District.

A new service provided by the District is a citrus canker drive-through wash system for all vehicles entering the District. The purpose of this system is to serve as a preventative method for avoiding the spread of citrus canker.

4.3) Facilities

The District employs a system of main, lateral, and sublateral canals, wells, and water control structures, which allow both irrigation and drainage of the District lands. These facilities are described below and their locations within the District are illustrated in Figure 3.

A) Main Canals: Main canals run north and south along the section lines in the District. The primary purposes of these canals are storm water drainage, including draining the laterals during the wet season, and water control for water supply purposes.

- B) **Lateral Canals:** Laterals are typically 24-feet wide and 8-feet deep and have a typical water depth of 4.5 feet. The primary function of the laterals is to direct irrigation water and provide storm water drainage during wet weather.
- C) **Sublateral Canals:** Sublaterals are canals or swales that run north and south along each side of the 10-acre parcels into which the District lands typically are divided. The primary function of the sublaterals is to provide storm water drainage during the wet season. Generally, there are 15 rows of sublaterals in each section.
- D) **Control Structures:** Weirs, culverts, and plugs are located throughout the District for the purpose of controlling both drainage and irrigation. In general, weirs have been constructed with the capability to regulate water elevations and flow rates; culverts are used to connect one lateral/sublateral system to another; and plugs are used to contain water within a given section of the system.

5.0) SURFACE WATER MANAGEMENT AND POTABLE WATER SUPPLY FACILITIES

Narrative sufficient to describe each facility's capacity for the management and storage of surface waters and potable water supply, if applicable.

5.1) Management and Storage of Surface Waters

Location and Drainage Areas

County Line Drainage District (CLDD) has seven water storage areas which are located in the southern portion of the District. Within the CLDD, these storage areas are referred to as "pits" and are identified in Figure 2. White's Pit is the western most water storage area and is connected to Kelly Pit via a culvert. The Kelly Pit consists of a series of four interconnected pits which will be referred to as "Kelly Pit 1, 2, 3, and 4." Freeman Pit is located east of Kelly Pit 4 and is connected to Kelly Pit 4 via a transport canal which at the present time is plugged. The Airport Pit is not connected to any other pits and is located in the southeastern most section of the District.

The water storage pits within the District receive ExR from on-site and off-site areas. Off-site drainage areas along the CLDD's northern border account for the off-site ExR collected within the District. This off-site drainage area is in excess of 5,600 acres in size. On-site drainage is collected from approximately 3,390 acres of vegetative and open lands.

2. Volume Available

White's Pit, Freeman Pit and Kelly Pits 1, 2, 3 and 4 were surveyed to determine the estimated storage volume. Stage-storage curves were generated for each pit from the survey data. The stage-storage curves present water surface areas at various stages (water elevations) and their resulting storage volumes. The cumulative available storage volume of the six surveyed pits based upon an average 1. foot stage is approximately 956 acre-feet.

The estimated total storage of the seven existing pits is 1,057 acre-feet as shown in Exhibit D. This total available storage estimate was based upon the total volume elevations 0 and 14 foot.

5.2) Potable Water Supply

None.

6.0) ENVIRONMENTAL AND WATER QUALITY PROGRAMS

A description of any environmental or water quality program that the district has implemented or plans to implement.

None.

7.0) SERVICES PROVIDED TO OUTSIDE USERS

A map and narrative description of any area outside the district's legal boundary for which the district provides services.

No areas outside of County Line Drainage District's boundaries are served.

8.0) PLANNED FUTURE FACILITIES AND SERVICES

Detailed descriptions of facilities and services that the district plans to provide within 5 years.

None, other than routine maintenance.

9.0) ADMINISTRATIVE SERVICES

A description of the administrative structure of the district.

The District is governed by a Board of Supervisors, consisting of three landowner representatives who reside within the state of Florida, and who are elected on a one-acre, one-vote basis by the landowners in the District. The Board elects its own President annually. Each supervisor's term is staggered so that one supervisor is elected each year.

The District employs a District Manager/Secretary/Treasurer through an Inter-Local Agreement, who conducts the daily administrative duties of the district.

The district retains an outside consultant who is on site and supervises one field operations employee.

To support the Board of Supervisors, the District also retains the consulting services of an attorney and a professional engineer, which are appointed by the Board of Supervisors on an annual basis.