



**PINELLAS PARK
WATER MANAGEMENT
DISTRICT**

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Vice Chairman

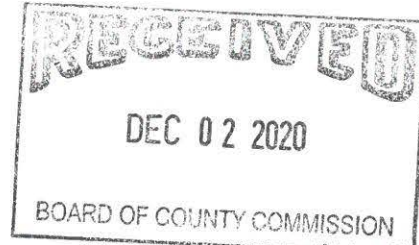
MICHAEL S. FARRELL
Treasurer

RANDAL A. ROBERTS
Executive Director

November 06, 2020

Board of Commissioners
315 Court Street
Clearwater, FL 33756

Subject: Pinellas Park Water Management District Public Facilities Report Update



Dear Board of Commissioners,

Pursuant to Florida Statute (FS) Chapter 189 Section 8 (189.08), please find attached for your use a copy of the Pinellas Park Water Management District's updated Public Facilities Report.

The District has completed construction of its Public Facilities infrastructure and is currently in maintenance mode as supported by the Southwest Florida Water Management District's determination that ongoing projects have been permitted as maintenance activities.

Accordingly, the information provided in this Public Facilities Report is limited to the items noted under FS Section 189.08 (2)(a), specifically, the District's Public Facilities Report Update includes "a description of existing public facilities owned or operated by the special district, and each public facility that is operated by another entity, except a local general-purpose government, through a lease or other agreement with the special district." Please note that this description includes the current capacity of the facility, the current demands placed upon it, and its location. This information will be updated every 7 years at least 12 months before the submission date of the evaluation and appraisal notification letter of the appropriate local government according to the posted schedule on Department of Economic Opportunity's website.

Sincerely,

Randal A. Roberts, Executive Director
Pinellas Park Water Management District



Memorandum

To: Mr. Randal A. Roberts, Executive Director, Pinellas Park Water Management District

From: Karen Lowe, P.E., District Engineer, CDM Smith

Date: October 7, 2020

Subject: PPWMD Public Facilities Report Update

Introduction

This Public Facilities Report update has been developed in order to provide a mechanism for coordination between the Pinellas Park Water Management District (PPWMD) and the local general-purpose governments in compliance with Florida Statute 189.08(2)(a).

The PPWMD was created in 1976 by the Florida State Legislature and operates as a special district to manage the primary drainage system for a portion of central Pinellas County (see Location Map, **Figure 1**). Unlike many other types of infrastructure, population does not directly affect the demand for drainage facilities. Factors that do directly affect the need for drainage facilities are area-specific such as size of drainage area, land use, climatic factors, soils, and topography.

The PPWMD is divided into five (5) drainage basins with a primary channel system draining each basin. The drainage basins and their respective boundaries are shown on **Figure 2**. The jurisdictional limits of PPWMD encompass approximately 15 square miles, which includes portions of the City of Pinellas Park, unincorporated Pinellas County, City of St. Petersburg, and Kenneth City. The secondary public drainage systems fall under the jurisdiction of the City of Pinellas Park, Pinellas County, City of St. Petersburg, and Kenneth City.

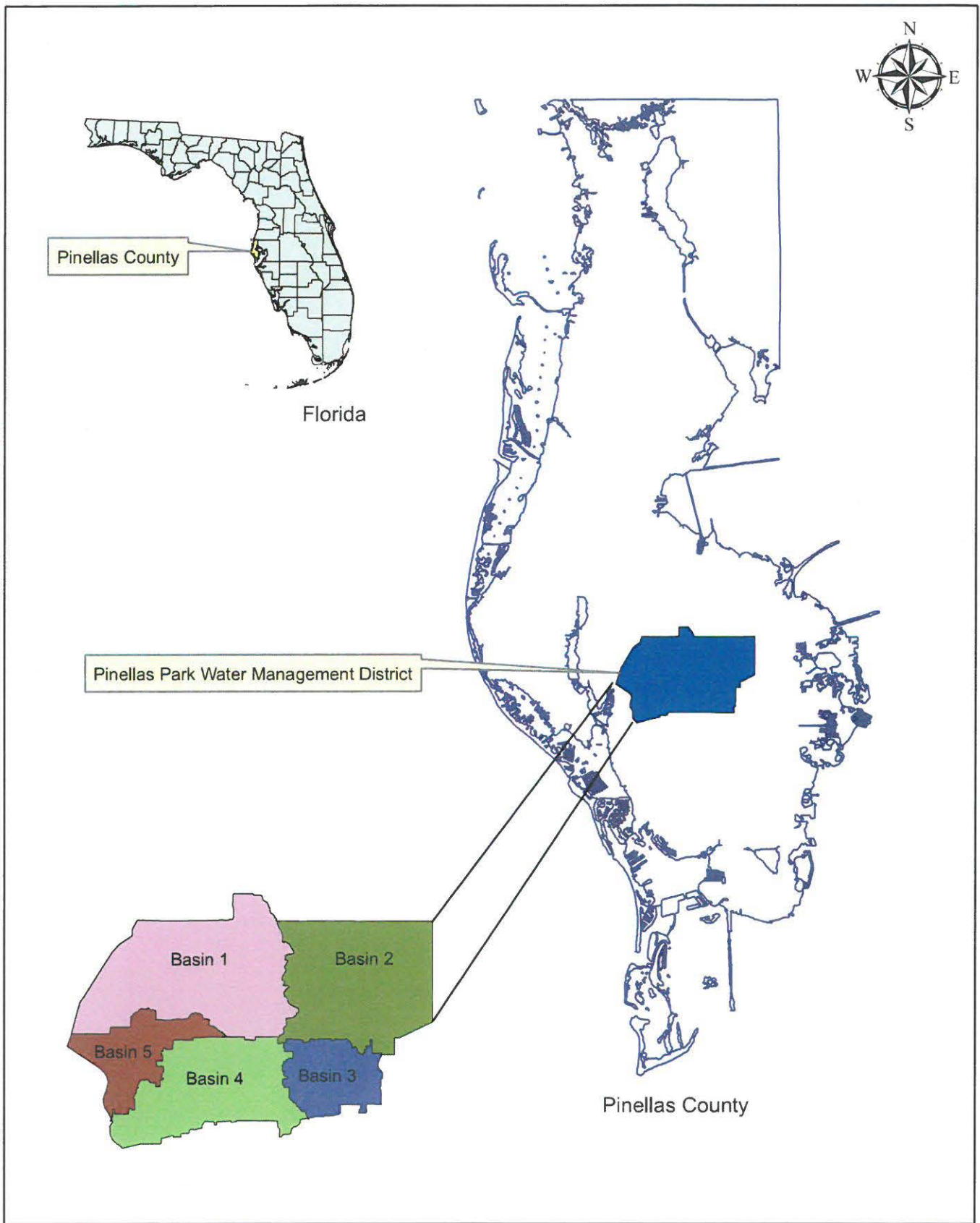
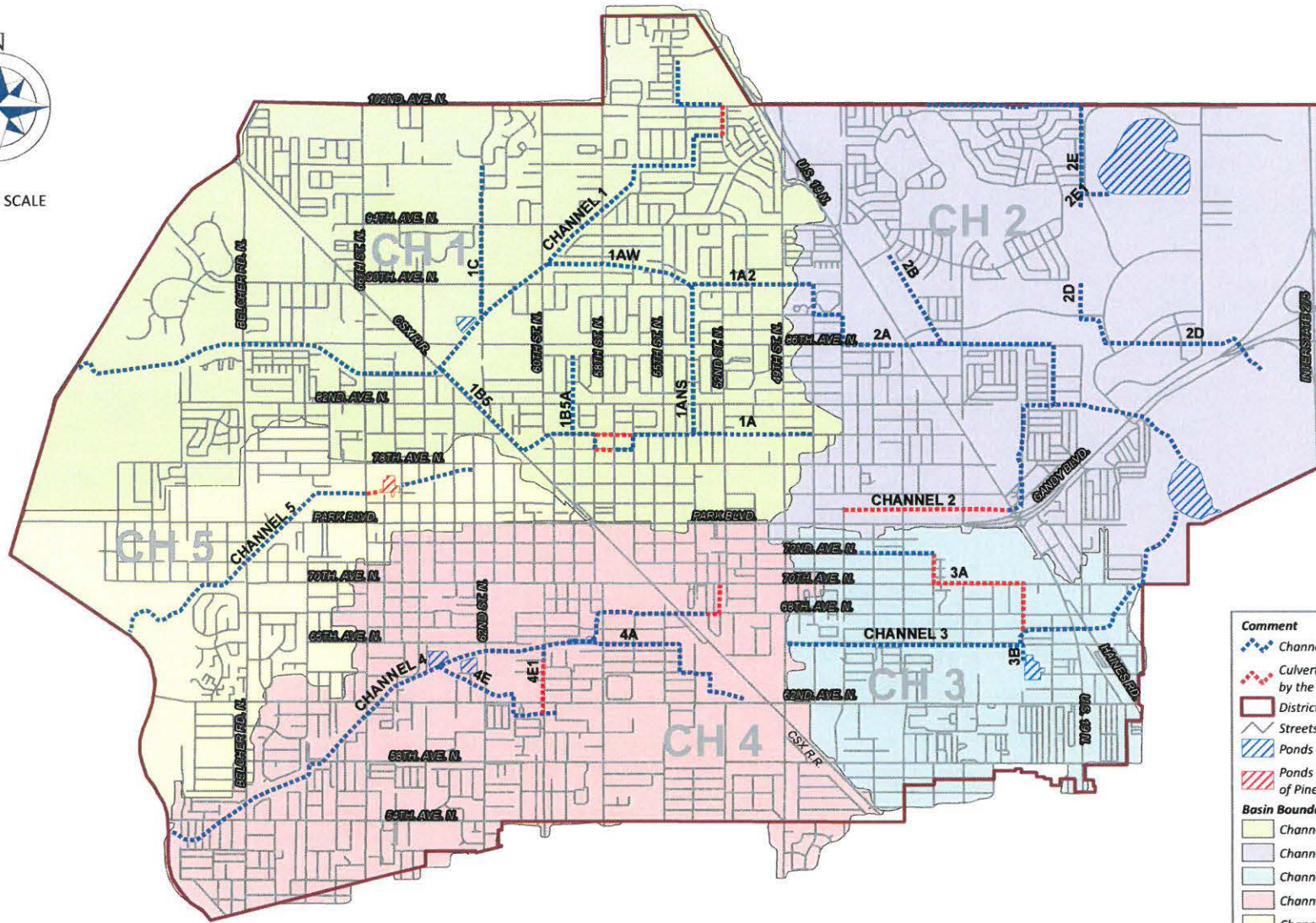


Figure 1
Location Map
Pinellas Park Water Management District





NOT TO SCALE



- Comment**
- Channels by PPWMD
 - Culverts and Pipes Installed by the City of Pinellas Park
 - District Boundary
 - Streets
 - Ponds by PPWMD
 - Ponds Installed by the City of Pinellas Park
- Basin Boundary**
- Channel 1 Basin
 - Channel 2 Basin
 - Channel 3 Basin
 - Channel 4 Basin
 - Channel 5 Basin



Figure 2
Basin Boundaries and Channel Systems
Pinellas Park Water Management District (PPWMD)

Existing Facilities

The Pinellas Park Water Management District includes the following types of public facilities: five channel systems, structures at roadway crossings, control locations (weirs), and detention/storage lakes and ponds.

A brief description of each channel system follows.

Channel 1 Basin

The District Channel 1 Basin comprises approximately 3,020 acres in the northwestern portion of the District. The basin lies generally west of U.S. Highway 19 between 74th Avenue and 102nd Avenue, and a small section just west of US 19 extends to 108th Avenue. The basin is drained by a channel system composed of a main channel and three primary tributaries. The tributaries, shown on Figure 2, include Channels 1A, 1B-5 and 1C, which all drain to the main channel. The Channel 1 system flows westerly to its outfall at the Cross Bayou Canal.

The headwaters of Channel 1A begin at 47th Street and 80th Avenue, proceed westerly, then turn northerly before 53rd Way N., then westerly at 90th Avenue to the confluence with Channel 1 near 60th Street N. Channel 1A serves a primarily residential area, with the easterly segment bordered by 49th Street N. on the east, Park Boulevard on the south, 53rd Way N. on the west, and just south of 94th Avenue on the north. The easterly segment of Channel 1A includes Channels 1ANS and 1A2. The westerly segment, also primarily residential, is bordered on the east by 53rd Way N., on the south by 84th Avenue, on the west by 60th Street N., and on the north by 94th Avenue. The westerly segment of Channel 1A is composed of Channel 1AW. Skyview Pool and the sections of Channel 1AW between 90th Avenue N. and 55th Street N. and 58th Street N. and Channel 1 were concrete lined in 2018.

Channel 1B-5, which once drained to the Channel 5 Basin, was diverted to Channel 1 in the 1960s. Channel 1B-5 also serves a primarily residential area bordered on the east by 53rd Street N., on the south by Park Boulevard, on the west by the CSX Railroad and Channel 1, and on the north by 84th Avenue and 90th Avenue. Channel 1B-5 begins at 55th Street N., proceeds westerly to the CSX Railroad (eastern side), then northwesterly to the confluence with Channel 1. In 2019, approximately 320 linear feet of concrete panels at Channel 1B5 were replaced. New concrete panels (south side only) and channel bottom were constructed within Channel 1B5, starting approximately 80 feet east of 59th Street and continuing east to the bend in the channel at 58th Street.

Channel 1C begins at 98th Avenue and 62nd Street N. and proceeds southerly to the confluence with Channel 1 adjacent to the Lloyd Tingle Nature Park. Channel 1C serves a residential area bordered primarily by itself on the east, Channel 1 on the south, CSX Railroad and 66th Street N. on the west, and 102nd Avenue on the north.

The channels of Basin 1 total approximately 7.7 miles in length and bottom widths range from 2 feet to 26 feet. The Channel 1 conveyance system is composed of mainly concrete-paved channels, a

small portion of fabricform lined channel, sheetpile and grass-lined channels which are all maintained by the District.

Channel 2 Basin

The Channel 2 Basin, shown on Figure 2, comprises a main channel and four tributary channels 2A, 2B, 2D and 2E north of Park Boulevard and east of 49th Street, which provide drainage for approximately 2,540 acres. Channel 2 is the outfall for a city-maintained storm sewer that parallels Park Boulevard along 75th Avenue from 46th Street North to just east of U.S. Highway 19. The main channel serves the area from 82nd Avenue to Park Boulevard and east of 49th Street to Gandy Boulevard. The general flow direction is easterly until it crosses Gandy Boulevard and discharges to Sawgrass Lake.

Channel 2A drains the western half of the Mainlands of Tamarac, located east of U.S. Highway 19, and north of 90th Avenue. It also drains the residential and commercial areas located between U.S. Highway 19 and 49th Street N., north of 82nd Avenue, and the westernmost portions of Gateway Centre, and the Sunset Mobile Home Park. Channel 2A flows eastward from 49th Street N. and then south to its confluence with Channel 2 near the Sunset Mobile Home Park.

Channel 2B, located at the southwest corner of the Mainlands subdivision, serves primarily the Mainlands Village Shopping Center and the western portion of the subdivision. Channel 2B discharges to Channel 2A near 40th Street N. and 86th Avenue.

Channel 2D serves as an outfall from East Lake in the Mainlands subdivision. Channel 2D and portions of Channel 2A were reconstructed through the Gateway Centre property in a joint effort between the developers of Gateway Centre and the District. Channel 2D flows easterly and discharges to Sawgrass Lake.

Channel 2E is an overflow channel that drains the northeastern portion of the Mainlands subdivision and the northern part of Gateway Centre. It flows easterly and discharges into the Roosevelt Creek drainage basin of Pinellas County.

In 2019, as part of the Crown Honda expansion project, riprap was added to Channel 2 on the west side of the channel just northwest of 76th Terrace North, due to channel impacts from the new construction.

The channels of Basin 2 total approximately 5.5 miles in length. The Channel 2 conveyance system is composed of grass-lined channels, concrete paved channels, a small portion of fabricform lined and a small portion of rip-rap channel which are all maintained by the District.

Channel 3 Basin

The Channel 3 Basin, shown on Figure 2, provides drainage for the area east of 49th Street from Park Boulevard to the southeastern boundary of the District. The system consists of a main channel and two tributaries, Channels 3A and 3B, and Lake Boisvert and serves approximately 912 acres of

highly urbanized drainage basin, including large areas of commercial and light industrial development. The flow is northeasterly to its point of discharge on the west side of Sawgrass Lake.

The channels of Basin 3 total approximately 2.7 miles in length. The Channel 3 conveyance system is composed of concrete-paved channels, grass-lined channels and a small portion of fabriform lined channel which are all maintained by the District.

Channel 4 Basin

The Channel 4 Basin, shown on Figure 2, is located in the southwestern portion of the District and consists of a main channel, three minor tributaries (4A, 4E, 4E-1), Bradbury Pond, Teller Lake, Maiers Lake and Debra Lake. These tributaries, pond and lakes are all maintained by the District and the City of Pinellas Park. Other tributaries, including 4B, 4C and 4D, are maintained by others and are not shown on Figure 2. The system provides drainage for approximately 1,988 acres and flows southwesterly to its outfall at Joe's Creek just south of 54th Avenue. The basin lies generally west of 49th Street N. between 74th Avenue N. (Park Boulevard) and just south of 54th Avenue.

Channel 4A serves a drainage area with commercial, residential and rural properties. It is bordered on the east by the CSX Railroad, on the south by 50th Avenue, on the west by 53rd Street N. and 58th Street N., and by 66th Avenue on the north. Channel 4A flows from 62nd Avenue westerly to the confluence with Channel 4 at Debra Lake near 58th Street N.

Channels 4E and 4E-1 serve an area bordered on the east by 53rd Street N., on the south by 54th Avenue, on the west by 64th Street N. and Channel 4, and on the north by Channel 4. Channels 4E and 4E-1 flow from McKee Lake northwesterly to Channel 4 near 64th and 63rd Streets N.

A 2013 maintenance project provided improvements at the Joes Creek outfall which included rip-rap for erosion control and a concrete cap over an existing force main. A 2018 maintenance project included the replacement of a failed articulated concrete block mat system with concrete panels, for a length of approximately 200 feet, between 58th Ave. N. and 66th Street.

The channels of Basin 4 total approximately 4.1 miles in length. The Channel 4 conveyance system is composed of concrete-paved channels, a small portion of rip-rap and fabriform concrete channel, sheetpile and grass-lined channels which are all maintained by the District.

Channel 5 Basin

The District Channel 5 Basin, shown on Figure 2, is an approximate 960-acre area in the central portion of Pinellas County. The basin lies generally west of 58th Street N. between 58th Avenue N. and 82nd Avenue N. and is drained by a channel system composed of a main channel. The system flows southwesterly to its outfall at Joe's Creek.

The channels of Basin 5 total approximately 1.6 miles in length. The Channel 5 conveyance system is composed of grass-lined channels, concrete-paved channels, articulating block-paved channels, a small portion of rip-rap channel and sheetpile which are all maintained by the District.



NOT TO SCALE

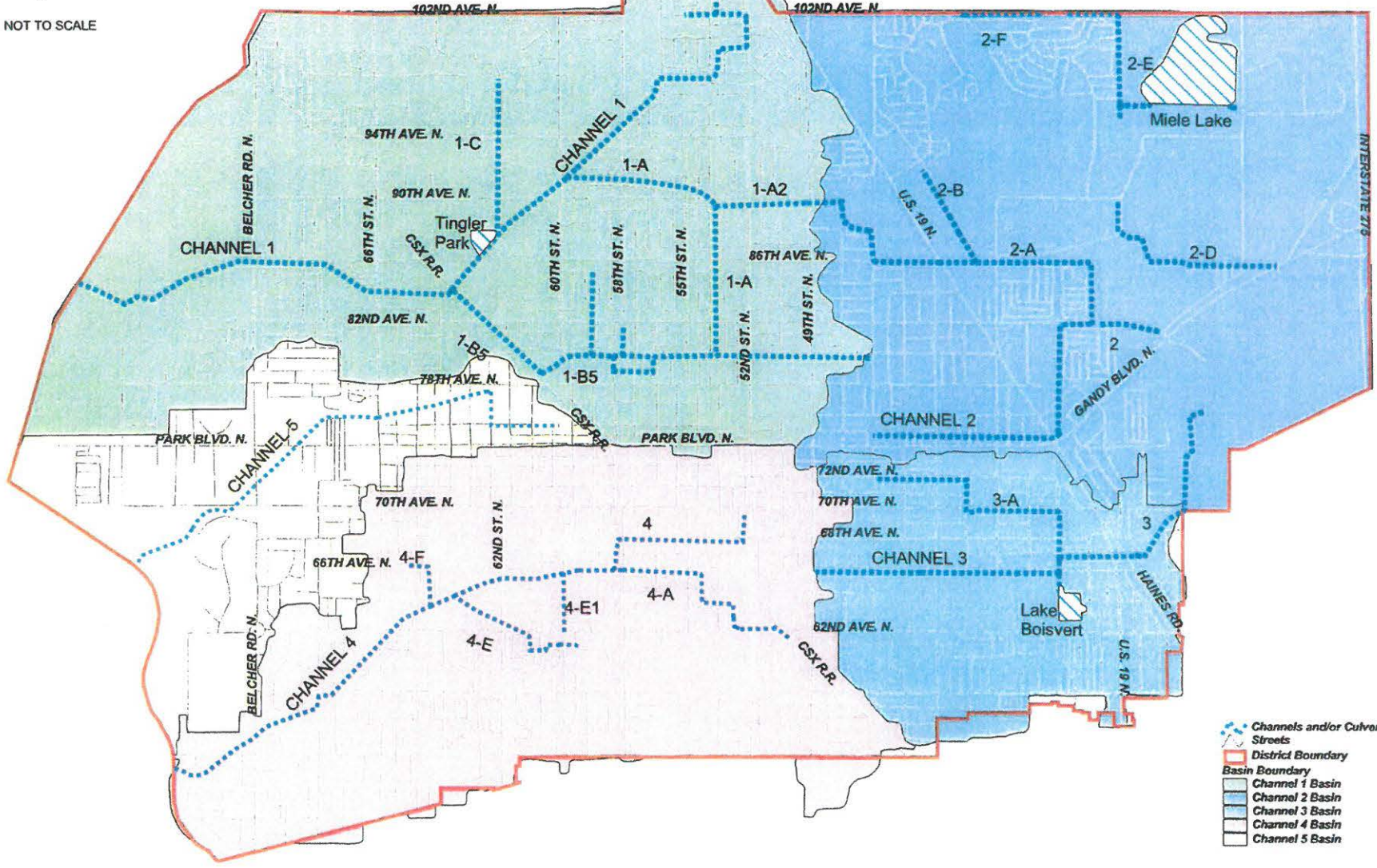


Figure 1-2
Pinellas Park Water Management District
Basin Boundaries and Channel Systems

