



City of Pompano Beach, Florida

Comprehensive Plan Drainage Subelement

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Ordinance 210 - 19

Prepared by:

Development Services Department
City of Pompano Beach, Florida



City of Pompano Beach, Florida

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**CITY OF POMPANO BEACH, FLORIDA
COMPREHENSIVE PLAN
JANUARY 2010**

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I. INTRODUCTION

Drainage is one of the four (4) sub-elements that comprise the Infrastructure Element of the City of Pompano Beach's Comprehensive Plan. The City's Planning Department was responsible for preparing this updated Element. Walter H. Keller, Inc. provided assistance in data and analysis, mapping and format. The format of the Element varies from the former document in that the City previously adopted the entire document including the Goals, Objectives and Policies and the data and analysis.

The Drainage sub-element contains the following sections: Introduction; Goals, Objectives and Policies; Existing Conditions; Facility Analysis; and, Stormwater Master Plan.

This document incorporates an entirely new data and analysis section reflecting approximately a 25% increase in City area. Underlines and strike-thru's are provided in the Goals, Objectives and Policies. The new data and analysis, however, fully replaces the former data and analysis without strike-thru's and underlines.

II. GOALS, OBJECTIVES AND POLICIES

Goal

06.00.00C Drainage service shall be provided and maintained in an orderly manner that will insure public health, safety and quality of life.

Objective **Stormwater Utility**

06.01.00C The provision of drainage services shall be through the enterprise fund known as Stormwater Utility.

Policies

06.01.01C Improvements to the drainage system shall follow the Stormwater Management Master Plan.

06.01.02C Where drainage service is required concurrent with private development, it shall be the responsibility of the developer to provide these systems (except in unique State or Federal grant situation). On site retention/detention ponds.

06.01.03C Whenever possible, the City shall attempt to supplement drainage improvements with funding from County, State and Federal sources.

Objective **Priorities**

06.02.00C Where existing drainage facilities have major deficiencies, as identified in this Comprehensive Plan, the City shall correct such twenty-five percent (25%) of the deficiencies by the year 2014.

Policies

06.02.01C The policies for the rehabilitation or replacement of the City's drainage facilities shall be in accordance with the City's Capital Improvements Plan and are prioritized as follows:

1. Where drainage problems threaten the public health, safety and welfare projects will be initiated by the City Commission.
2. Other projects will be initiated only after petitions from the area property owners are submitted to the City Commission.

06.02.02C The City shall implement all new infrastructure through Stormwater Management Master Plan.

06.02.03C Funding of new drainage projects shall occur through the Stormwater Utility.

06.02.04C Maintenance of existing public street drainage systems shall be the responsibility of the Street Division of the Public Works Department; funding from the annual operating budget.

Objective Level of Service Standards

06.03.00C The City of Pompano Beach shall provide an adequate drainage system to support the future land use plan and to meet the needs of the tourist and permanent population of Pompano Beach.

Policies

06.03.01C The City of Pompano Beach shall set and maintain the level of service standards, which shall be the minimum levels of service standards for drainage per South Florida Water Management District standards.

25-Year Frequency

72-Hour Duration for allowable discharge

10-year frequency storm

24-hour duration for the minimum road crown elevation

100-year frequency storm

24-hour duration for minimum finished floor elevation

06.03.02C Stormwater discharge water quality shall meet or exceed the criteria found in Article V, Chapter 27 of the Broward County Code of Ordinances.

06.03.03C The projected levels of service shall be the minimum levels of service maintained during the five (5) and ten (10) year planning periods.

06.03.04C The City shall periodically evaluate the projected level of services standards in order to ascertain continued applicability during the ten (10) year planning period.

06.03.05C The City shall periodically monitor and inspect the infrastructure systems in order to ascertain that the established levels of service are maintained.

06.03.06C Capital Improvement projects undertaken to maintain the established levels of service will be implemented in accordance with the schedule provided in the Stormwater Management Master Plan.

Objective Flood Protection

06.04.00C The City shall make the necessary Capital Improvements to the drainage system to reduce the threat of flooding.

Policies

06.04.01C The City (Utilities Department) will update the Stormwater Management Master Plan, as needed, in order to assist with the prioritization of the Capital Improvements Plan projects.

06.04.02C The City's Capital Improvements Plan shall be the yearly funding document for the new construction, rehabilitation or replacement of the City's drainage facilities.

06.04.03C The City's Utilities Department will continue to perform normal operating maintenance and repairs as needed to minimize emergency repairs.

Objective Environmental Protection

06.05.00C The City's Utilities Department shall manage the City's drainage system and facilities in order to minimize any impacts to the environment.

Policies

06.05.01C The City's Utilities Department shall maintain adequate resources (staff and equipment) to respond to operational problems before they become flooding problems, which affect residents and businesses.

06.05.02C Upon adoption of the Pompano Canal Bmap/Bmap lite (WBID 3271), the required improvements will be made to drainage system

Objective Coordination

06.06.00C The City shall coordinate with Broward County Utilities, which operates Water Management Districts 3 and 4, and South Florida Water Management district, which operates the Pompano Canal and Cypress Creek Canal inside the City limits and provides drainage services.

Policies

06.06.01C Coordinate with Broward County for the provision of drainage services to City of Pompano Beach residents and businesses that are located in Water Management Districts 3 and 4.

06.06.02C Coordinate with South Florida Water Management District on the operation of Pompano Canal and Cypress Creek Canal, which provide drainage services to City of Pompano Beach residents and businesses.

Objective Funding

06.07.00C Continue to operate the drainage system as an enterprise fund

Policies

06.07.01C Consider hiring a consultant to do a study on the drainage rates to insure that the rates are sufficient to support the needed drainage capital improvements and operating expenses for the drainage system.

06.07.02C Adjust drainage rates in accordance with the rate study.

III. EXISTING CONDITIONS

The Primary Canal System

The City of Pompano Beach is located within portions of three (3) drainage basins: the Coastal Basin; the Pompano Canal Basin; and, the C-14 East Basin. Three (3) primary canals provide major drainage flow for the City of Pompano Beach. The C-14 Canal runs east from approximately eight miles into the Everglades Conservation District to the northwest corner of Section 4 in Township 49 South, Range 42 East entering the City adjacent to Atlantic Boulevard. Here the C-14 divides into two canals: the Pompano Canal; and, the Cypress Creek Canal. The Pompano Canal runs east parallel to Atlantic Boulevard. West of Cypress Road South, the canal runs southeast and discharges into Lake Santa Barbara which discharges directly into the Intracoastal Waterway. The Cypress Creek Canal runs directly south from the C-14 Canal for approximately 1,500 feet, then southeast to the southern limits of the City. From there, the Cypress Creek Canal then runs northeast to eventually join the Pompano Canal.

There are four drainage structures in the City as part of the primary canal system.

1. Along the Pompano Canal at the intersection of Powerline Road and Atlantic Boulevard, the canal was replaced with 594 linear feet of culvert with a stop log riser control structure located at the east end of the culvert.
2. A spillway control structure (S-37-B), located on the Cypress Creek Canal, approximately 3,000 feet south of the Canal, where Pompano Creek and Cypress Creek Canal divide.
3. A spillway control structure (S-37-A) is located along the Cypress Creek Canal just east of the F.E.C. Railroad.
4. The fourth structure is located along the Pompano Canal just east of Cypress Road South.

Figure 1 illustrates the drainage basins, canals and waterways in the City.

The Secondary Canal System

There are two secondary canal systems. The north system is located in Water Control District (WCD) No. 3. This District is located north of Atlantic Boulevard and east of the F.E.C. Railroad within the City of Pompano Beach and encompasses approximately 3,839 acres. There are three (3) north/south canals (C-1, C-2 and C-3) and five (5) lateral canals (A, B, C, D and E).

There are five control structures located in WCD No.3.

1. Structure 8 is located west of the intersection of Copans Road and I-95 along the C-1 Canal.
2. Structure 9 is located at the intersection of Northwest 15th Street and I-95 along the C-1 Canal.
3. Structure 12 is located on the C-3 Canal at Northwest 31st Avenue.
4. Structure 25 is located east of the intersection of Atlantic Boulevard and Hammondville Road on the C-3 Canal.
5. Structure 40 is located south and west of the intersection of N. Andrews Avenue and Sample Road on Lateral D.

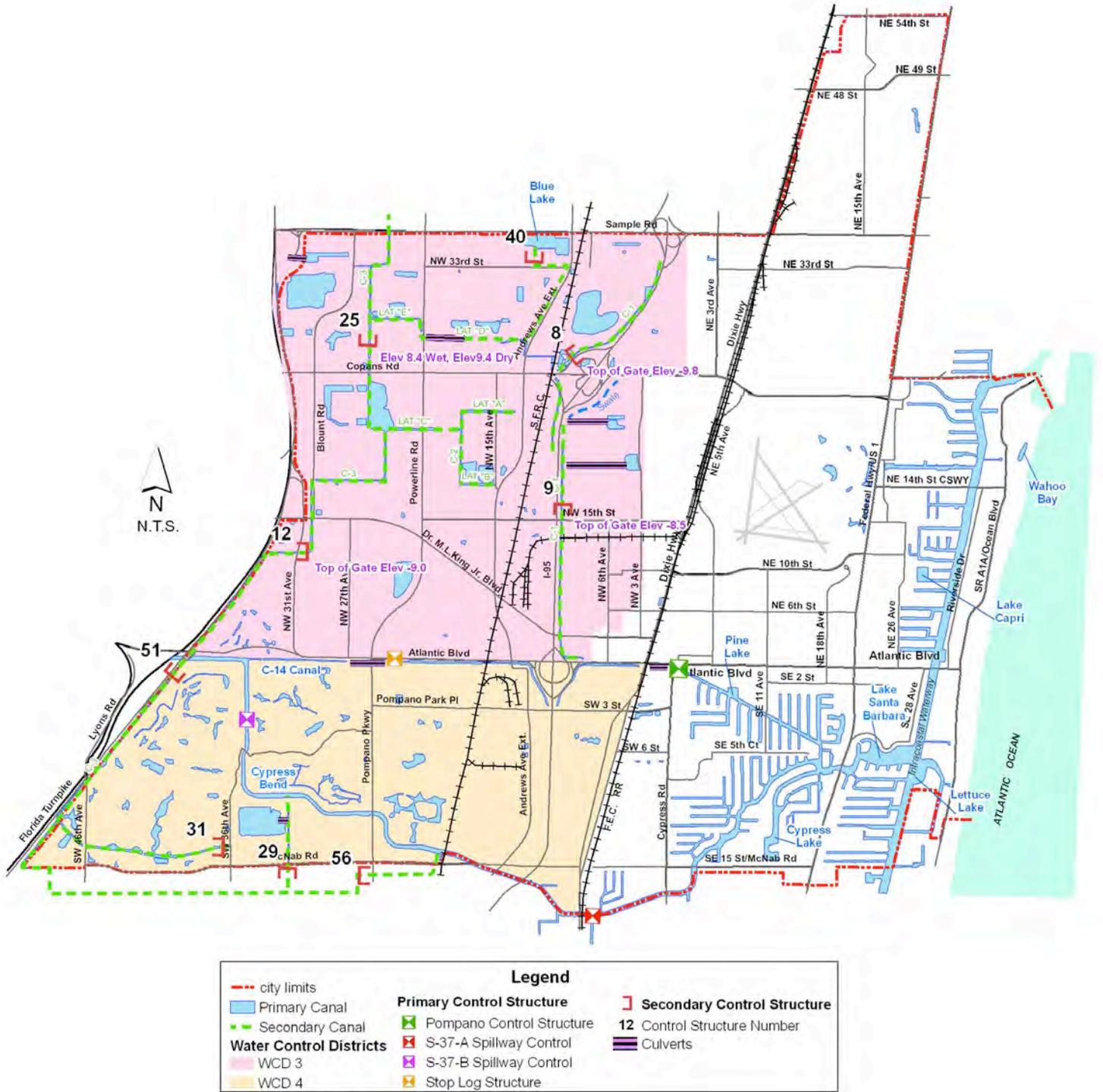
The south system is located in WCD No.4, which is south and west of the Cypress Creek Canal and encompasses approximately 2,635 acres within the City. The north/south canal C-3, is extended south into WCD No.4 and two east/west canals spur off this canal. One is located just south of the Pompano Beach City Limits, but spans a north/south canal, which serves a small area of the Pompano Beach. The other east/west canal is located just north of McNab Road.

There are also five control structures located in WCD No.4.

1. Structure 51 is located south of the Pompano Canal on the extension of the C-3 Canal.
2. Structure 29 is located at the intersection of McNab Road and Northwest 15th Way on the spur canal, which ties back into the Cypress Creek Canal. This structure is located in the City of Fort Lauderdale.
3. Structure 31 is located at the end of the northern lateral canal on Northwest 21st Avenue.
4. Structure 30 is located south of the City limits on Northwest 21st Avenue on the southernmost lateral canal. This structure is located in the City of Fort Lauderdale.
5. Structure 56 is located south and west of the intersection of McNab Road and Powerline Road on the southernmost lateral. This structure is located in the City of Fort Lauderdale.

The primary and secondary drainage systems are identified and located in more detail on the Major Drainage Systems in Figure 2. The local level drainage systems are identified in detail on the City of Pompano Beach, Florida, Office of the City Engineer, Utility Maps.

Figure 2 – Major Drainage Features



Source: City of Pompano Beach

Water Control District No. 4 Drainage System

Broward County is the entity responsible for the maintenance and operation of this system. This system serves the geographic area southwest of the Cypress Creek Canal. In 2005, the types of land uses served in WCD No. 4 within the City are noted in Table 1.

Table 1 - Existing Land Use for WCD-4

Land Use	Acres	%
Residential	887.0	33.7%
Commercial	378.6	14.4%
Industrial	491.7	18.7%
Community Facilities	51.5	2.0%
Recreational/Open Space	536.4	20.4%
Miscellaneous	13.4	0.5%
Vacant Residential	86.8	3.3%
Vacant Commercial	101.3	3.8%
Vacant Industrial	87.8	3.3%
Vacant Community Facilities	0.4	0.0%
Total	2,634.8	100.0%

Source: Broward County Property Appraiser 2005
SFWMD

This system was not designed for a design capacity. The system provides drainage for the serviced area based on an allowable discharge of 69.2 cubic feet per second per square mile (csm) determined by the Pompano Canal capacity. The demand on the system is limited to the service area discharging at a rate equal to the allowable discharge and equaling the minimum facility capacity. The amount of developed land is an indicator of current demand, conversely, vacant lands indicate surplus capacity. In 2005, Pompano Beach was 88% developed, therefore, current demand on the drainage system is still below capacity.

The City of Pompano Beach has expressed its level of service in terms of performance based criteria. The following is the adopted level of service standard for drainage facilities:

25- year frequency storm, 72 hour duration for allowable discharge*

10-year frequency storm, 24 hour duration for the minimum road crown elevation

100-year frequency storm, 72 hour duration for minimum finished floor elevation

*Per South Florida Water Management District standards

The standards for the level of service provided are based on the purpose and design of the system. The system services as a drainage facility, but was designed primarily for recharge purposes. The canals were not designed for a required drainage flow, but instead were constructed per a typical section of 75 feet wide at the top of bank and 2:1 side slopes to an elevation of approximately (-) 2.0 feet NGVD (National Geodetic Vertical Datum).

Impervious area in Pompano Beach is restricted for residential, commercial and industrial developments based on individual zoning district criteria. These criteria include standards such as percentage of minimum pervious area.

Water Control District No. 3 Drainage System

Broward County is the entity responsible for the maintenance and operation of this system. This system serves the geographic area north of the Pompano Creek Canal and west of the F.E.C. Railroad. In 2005, the types of land uses served in WCD No. 3 within the City are noted in Table 2.

Table 2 - Existing Land Use for WCD-3

Land Use	Acres	%
Residential	822.1	21.4%
Commercial	318.9	8.3%
Industrial	1,126.2	29.3%
Community Facilities	463.3	12.1%
Recreational/Open Space	143.1	3.7%
Miscellaneous	127.6	3.3%
Vacant Residential	180.0	4.7%
Vacant Commercial	179.1	4.7%
Vacant Industrial	478.2	12.5%
Vacant Community Facilities	0.8	0.0%
Total	3,839.3	100.0%

Source: Broward County Property Appraiser 2005
SFWMD

This system was not designed for a design capacity. The system provides drainage for the serviced area based on an allowable discharge of 69.2 csm determined by the Pompano Canal capacity. The demand on the system is limited to the service area discharging at a rate equal to the allowable discharge and equaling the minimum facility capacity. The amount of developed land is an indicator of current demand, conversely, vacant lands indicate surplus capacity. Pompano Beach is 88% developed, therefore, current demand on the drainage system is still below capacity.

The City of Pompano Beach has expressed its level of service in terms of performance based criteria. The following is the adopted level of service standard for drainage facilities:

- 25- year frequency storm, 72 hour duration for allowable discharge*
- 10-year frequency storm, 24 hour duration for the minimum road crown elevation
- 100-year frequency storm, 72 hour duration for minimum finished floor elevation

*Per South Florida Water Management District standards

The level of service provided is based on the purpose and design of the system. The system services as a drainage facility, but was designed primarily for recharge purposes. The canals were not designed for a required drainage flow, but instead were constructed per a typical section of 75 feet wide at the top of bank and 2:1 side slopes to an elevation of approximately (-) 2.0 feet NGVD.

Impervious area in Pompano Beach is restricted for residential, commercial and industrial developments based on individual zoning district criteria. These criteria include such items as standards for percentage of minimum pervious area are contained in the City's zoning ordinances.

C-14 Canal and Cypress Creek Canal

South Florida Water Management District (SFWMD) is the entity responsible for the maintenance and operation of this system. The C-14 (Cypress Creek Canal) serves a geographic

area of 59 square miles in northeastern Broward County, including approximately 7.9 square miles in Pompano Beach. In general, the areas between Florida’s Turnpike and the CSX Railroad and surrounding the Cypress Creek Canal drain into the C-14 (Cypress Creek Canal). The canal also supplies water to recharge wellfields, conveys excess water from Water Conservation Area 2A to tidewater and maintains ground water elevations, west of spillway S-37-A, adequate to prevent saltwater intrusion. In 2005, the types of land uses served the C-14 East Basin within the City are noted in Table 3.

Table 3 - Existing Land Use served by C-14 Canal

Land Use	Acres	%
Residential	1,410.8	27.8%
Commercial	531.7	10.5%
Industrial	1,270.3	25.0%
Community Facilities	319.0	6.3%
Recreational/Open Space	646.2	12.7%
Miscellaneous	136.7	2.7%
Vacant Residential	141.8	2.8%
Vacant Commercial	213.7	4.2%
Vacant Industrial	404.4	8.0%
Vacant Community Facilities	0.4	0.0%
Total	5,074.9	100.0%

Source: Broward County Property Appraiser 2005
SFWMD

The design capacities are reflected in the design discharges of the control structures. Structure S-37-B serves a total area of 60.4 square miles, of which approximately 7.6 square miles are in the City of Pompano Beach. The design flow is 3,390 cubic feet per second (cfs). Structure S-37-A, which is downstream of Structure S-37-B, serves the same area, plus 9.2 square miles of which 2.93 square miles is within Pompano Beach. The design flow is 3,890 cfs.

The SFWMD translates the current demand into a prorated allowable discharge based on area. The allowable discharge for this canal is 69.2 csm. The facility provides drainage for the service area independent of the amount or type of development. The capacity of the system allows a discharge rate equal to 69.2 csm for the entire service area. Therefore, the demand on the system is equal to the capacity of the C-14 canal.

The Army Corps of Engineers designed and constructed this canal. The canal was designed primarily to provide drainage relief for this basin. The adequacy of drainage for individual sites is dependent upon adhering to applicable South Florida Water Management District criteria.

Pompano Canal

The SFWMD is the entity responsible for the maintenance and operation of this system. South Florida Water Management District operates and maintains the primary canal system and establishes discharge limits for releases from the secondary canal system. Limitations on discharge are determined by the capacity of the receiving primary canal to accept and safely remove stormwater. The discharge rate, proportionally allocated as runoff per land area ratio, is measured in cubic feet per second per square mile (csm). The design capacity for the Pompano Canal and the C-14 (Cypress Creek Canal) is 69.2 csm which is therefore the allowable discharge for the secondary canals.

The Pompano Canal provides flood protection to approximately five square miles in Pompano Beach. Most of the City between the CSX Railroad and U.S. 1 drains to the Pompano Canal. This primary canal also supplies water to recharge wellfields and maintains ground water elevations west of the Pompano Control Structure adequate to prevent saltwater intrusion. In 2005, the types of land uses served in Pompano Canal Basin within the City are noted in Table 4.

Table 4 - Existing Land Use Served by Pompano Canal

Land Use	Acres	%
Residential	1,474.9	45.5%
Commercial	348.9	10.8%
Industrial	421.6	13.0%
Community Facilities	378.4	11.7%
Recreational/Open Space	49.7	1.5%
Miscellaneous	88.4	2.7%
Vacant Residential	208.7	6.4%
Vacant Commercial	101.6	3.1%
Vacant Industrial	167.6	5.2%
Vacant Community Facilities	4.4	0.1%
Total	3,244.3	100.0%

Source: Broward County Property Appraiser 2005
SFWMD

The design capacity is reflected in the design discharge of the Pompano Control Structure. The structure serves an area of 5.1 square miles (see Figure 2) and has the capacity to discharge 375 cfs.

The SFWMD operates and maintains the primary canal system and establishes discharge limits for releases from the secondary canal system. Limitations on discharge are determined by the capacity of the receiving primary canal to accept and safely remove stormwater. The discharge rate is a ratio proportionally allocated as runoff per land area ratio, which is measured in cubic feet per second per square mile (csm). The design capacity for the Pompano Canal and the C-14 (Cypress Creek Canal) is 69.2 csm, which is therefore the allowable discharge for the secondary canals.

SFWMD translates the current demand into a prorated allowable discharge based on area. The allowable discharge for this canal is 69.2 csm. The facility provides drainage for the service area independent of the amount or type of development. The capacity of the system allows a discharge rate equal to 69.2 csm for the entire service area. Therefore, the demand on the system is equal to the capacity of the Pompano Canal.

The Army Corps of Engineers designed and constructed this canal. The canal was designed primarily to provide drainage relief for this basin. The adequacy of drainage for individual sites is dependent upon adhering to applicable South Florida Water Management District criteria.

The stop log structure, located at the intersection of Powerline Road and Atlantic Boulevard on the Pompano Canal, acts as a drainage divide in that canal. All runoff west of this structure is routed west into the C-14 canal and the Cypress Creek Canal.

IV. FACILITY ANALYSIS

Water Control Districts No. 3 and 4

As previously mentioned, the drainage systems were not designed for drainage but rather for groundwater recharge. However, they do provide adequate capacity for the ultimate discharge of water into the downstream South Florida Water Management District canals. The capacity of these canals is based on 69.2 cubic feet per second per square mile (csm). This system also has adequate capacity. Capacities are based on a ratio of allowable runoff per area, therefore, the surplus capacity is based upon the undeveloped areas.

Water Control Districts No. 3 and 4 are responsible for maintenance of their system. There are no plans for expanding these facilities during the next ten years. However, the District has initiated a canal cleaning program. This program will be repeated every five years. The canal structures are in good condition, and the mechanical parts are greased and lubricated on a weekly basis. The construction material (galvanized dip steel) is highly durable.

Broward County previously installed a structure located just south of Blue Lake in the northeast corner of the City of Pompano Beach. This structure serves as a drainage divide. During major storm events, because of the low capacity of the Hillsboro Canal, this structure is lowered to allow drainage south into the WCD No. 3 system.

Cypress Creek (C-14) and Pompano Canals

The SFWMD considers the Cypress Creek (C-14) and Pompano Canal basins almost fully developed with adequate capacity. Because the basins are considered nearly full developed, there is no surplus capacity. The existing systems were found to be adequate, based upon the present criteria, i.e. limiting discharge to 69.2 csm. There are no current plans for increasing the drainage facility capacity or replacing facilities during the next five years.

Stormwater Utility and Stormwater Management Master Plan

The City established a Storm Water Utility to generate funding, on a pay as you go basis, needed drainage capital improvements within the City. A Stormwater Management Master Plan was prepared in 1999. The Plan identified and prioritized more than 100 drainage sub-basins throughout the City. The 1999 Plan included conceptual design and cost estimates for the twenty (20) highest ranked sub-basins. In 2002, an additional 20 sub-basins were identified for improvement.

Between 2002 and 2008 almost eight (8) million dollars was budgeted on the highest priority sub-basins. The City's Capital Improvements Program estimates nearly nine (9) million dollars in drainage revenues will be derived from the Stormwater Utility through 2013. The estimated cost to complete the remaining drainage projects is approximately 11.7 million dollars. Additional funding from grants or other revenue sources will be needed to complete the identified drainage projects.

Figure 3 depicts the various sub-basin locations within the City and locations where previous and programmed drainage improvements are located. Properties annexed in 1997-2003 are noted in Figure 3. The annexed properties were not included in the most recent Stormwater Master Plan but will be considered in subsequent plan updates. It should also be noted however, that Broward County is making major infrastructure improvements (including drainage) in the annexed areas as part of the North County Neighborhood Improvements Program. Improvements have been completed in the Cresthaven area. Improvements in the Pompano Beach Highlands and Leisureville/Pompano Estates are to be completed by 2013.

Table 5 provides a listing of completed drainage projects, including the initial priority ranking, type of improvement, cost and completion date. Table 6 provides a listing of programmed and planned improvements through 2013. The Table provides the initial priority ranking, proposed type of improvement, estimated cost and comments. Because of engineering and funding needs, the timing and phasing of some of the projects is not known at this time. Project schedules will be updated in the annual updates to the Capital Improvements Program.

Figure 3 – Drainage Improvements

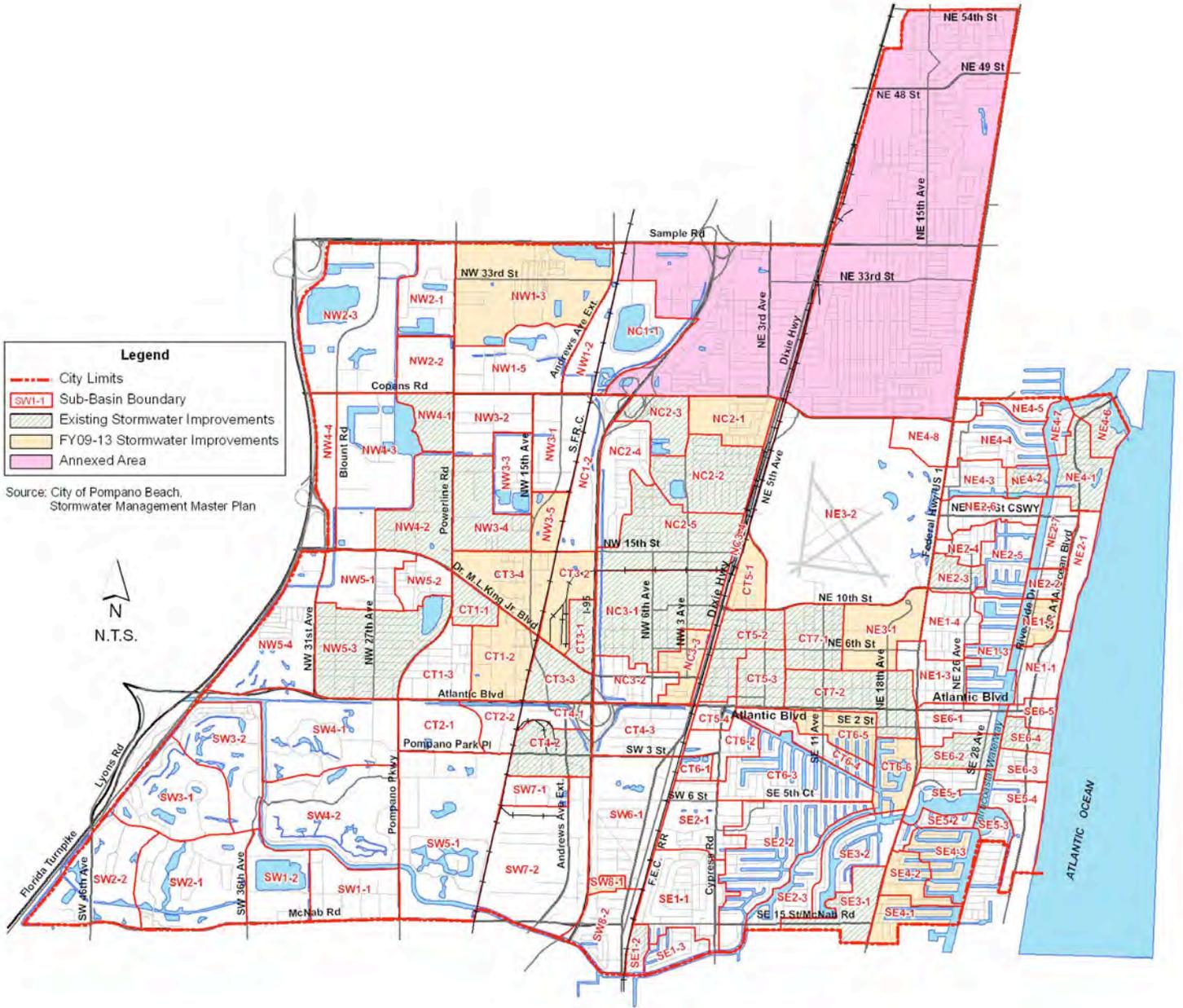


Table 5 – Completed Sub-Basin Drainage Improvements

Priority	Sub-Basin	Type of Improvement	Cost	Completion Date	Comments
		french drain on NE 8th Street, NE 9th Terrace and NE 23rd avenue	\$ 277,910	1999	not included in Master Plan
1	NC 2-5	catch basins, stormwater pipe and french drain on NW 14th Street	\$ 147,500	2002	00-774
2	NW 4-2	catch basins, stormwater pipe and french drain on NW 17th Street, NW 18th Street and NW 22nd Avenue	\$ 410,800	2002	00-775
3	CT 7-1	catch basins, stormwater pipe and french drain on NE 7th Street, NE 8th Street, NE 10th Avenue, NE11th Avenue and NE 12th Avenue	\$ 411,600	2003	00-776
4	CT 7-2	catch basins, stormwater pipe and french drain on NE 2nd Street, NE 16th avenue, NE 17th Avenue and NE 18th Avenue	\$ 261,100	2003	00-777
5	NW 4-1	catch basin, stormwater pipe and french drain on NW 22nd Street	\$ 135,400	2002	00-778
6	SE 6-2	catch basin, stormwater pipe and french drain on SE 4th Street	\$ 108,400	2003	00-779
7	CT 5-3	catch basins, stormwater pipe and french drain on NE 2nd Street	\$ 73,000	2003	00-780
8	NC 3-1	catch basins, stormwater pipe and french drain on NW 3rd Avenue	\$ 172,200	2003	01-796
9	NE 4-1	catch basins, stormwater pipe and french drain on North Riverside Drive and Marin Drive	\$ 385,700	2003	01-797
10	NC 2-2	catch basin, stormwater pipe and french drain on NW 2nd Terrace, NW 18th Street, NW 19th Street and NW 20th Street	\$ 455,900	2004	01-798
11	NE 4-2	catch basins, stormwater pipe and french drain on NE 18th Street and NE 28th Terrace	\$ 250,500	2004	01-799
12	CT 4-2	catch basins, stormwater pipe and french drain on SW 2nd Place and SW 13th Avenue	\$ 171,300	2003	01-800
13	NE 4-6	catch basins, stormwater pipe and french drain on Robbins Road	\$ 88,400	2003	01-801
14	CT 5-2	catch basins, stormwater pipe and french drain on NE 4th Street, NE 6th Street and NE 1st Avenue	\$ 253,900	2003	01-802
15	SE 6-4	catch basins, stormwater pipe and french drain on SE 4th Street	\$ 105,200	2003	01-803
16	CT 1-1	catch basins, stormwater pipe and french drain on NW 8th Street and NW 19th Avenue	\$ 343,400	2003	01-804
17	NE 2-3	catch basins, stormwater pipe and french drain on NE 10th Stree, NE 23rd Avenue, NE 24th Avenue, NE 25th Avenue and NE 26th Avenue	\$ 480,600	2003	01-805
19	NW 3-4	catch basins, stormwater pipe and french drain on NW 16th Street	\$ 177,400	2003	01-808
28	SE 3-1	catch basin, stormwater pipe and french drains on SE 13th court and SE 9th Avenue	\$ 286,200	2005	03-855
29	SE 1-2	catch basin, stormwater pipe and french drains on SW 7th Avenue	\$ 440,000	2005	03-854
33	NC 2-3	catch basin, stormwater pipe and french drains on NW 3rd Avenue	\$ 433,500	2008	05-893
34	NW 5-3	catch basin, stormwater pipe and french drains on NW 5th, NW 6th Street, NW 6th Court, NW 7th Street and NW 8th Street	\$ 1,092,500	2006	02-862
36	CT 3-3	catch basin, stormwater pipe and french drains on NW 12th Avenue	\$ 231,500	2008	05-891
39	CT 3-1	catch basin, stormwater pipe and french drains on NW 6th Street, NW 8th Street, NW 12th Avenue and NW 12th terrace	\$ 927,500	2005	04-871

Source: City of Pompano Beach

Table 6 – Programmed and Planned Sub-Basin Drainage Improvements

Priority	Sub-Basin	Type of Improvement	Cost	Comments
18	SE 4-3	catch basins, stormwater pipe and french drain on SE 9th Street	\$ 351,000	01-806
20	CT 3-4	catch basins, stormwater pipe and french drain on NW 15th Street	\$ 253,000	02-830
21	CT 6-5	catch basins, stormwater pipe and french drain on SE 3rd Street	\$ 170,000	Project was cancelled due to insufficient percolation. 05-890
22	CT 6-6	catch basins, stormwater pipe and french drain on SE 6th Street	\$ 309,600	
23	SE 4-1	catch basins, stormwater pipe and french drain on SE 14th Street	\$ 1,037,800	08-958
24	SE 4-2	catch basins, stormwater pipe and french drain on SE 12th Street, 13th Court and 24th Avenue	\$ 1,284,600	08-957
25	CT 5-1	catch basins, stormwater pipe and french drain on NE 3rd Avenue	\$ 441,300	05-892, Project was cancelled due to utility conflicts
26	CT 3-2	unknown		project was deleted because it was private property
27	NE 3-1	catch basin, stormwater pipe and french drains on NE 6th Street and NE 8th Street	\$ 768,400	06-909
30	NE 1-5	catch basin, stormwater pipe and french drains on Colony Club Road	\$ 66,000	07-938
31	NC 3-3	catch basin, stormwater pipe and french drains on NW 1st Street, NW 2nd Street and NW 5th Street		
32	NC 2-1	catch basin, stormwater pipe and french drains on NE 21st Street, NW 1st Avenue, Cypress Road, NE 1st Avenue, NE 1st Terrace, NE 2nd Avenue, NE 2nd Terrace and NE 3rd Avenue	\$ 1,139,200	07-936
35	NW 1-3	catch basin, stormwater pipe and french drains on NW 33rd Street	\$ 237,900	07-937
37	SW 8-1	catch basin, stormwater pipe and french drains on SW 9th Avenue	\$ 206,540	03-856
38	NW 3-5	catch basin, stormwater pipe and french drains on NW 15th Street	\$ 386,700	
40	CT 1-2	catch basins, stormwater pipe and french drains on NW 1st Street, NW 2nd Street, NW 4th Street, NW 6th Street, NW 7th Street, NW 15th Avenue, NW 16th Avenue, NW 17th Avenue and NW 18th Avenue	\$ 5,121,400	

Source: City of Pompano Beach

Because Success Doesn't Just Happen...



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