

DIVISION II
DESIGN STANDARDS

SECTION 25

RECLAIMED WATER SYSTEM

25.1 GENERAL

In accordance with the most recent edition of the CITY's Reclaimed Water and Cross Connection Control Policy, plus Florida Administrative Code 62-610 Part III, the DEVELOPER shall utilize the CITY's reclaimed water system to accomplish irrigation needs and other uses that do not require potable water. Reclaimed water facilities shall be independent of all potable water, raw water supply, wastewater, and stormwater systems. Materials used in the installation and construction of reclaimed water systems shall be the same as that used for potable water facilities, with the exception of the color coding, and as specifically described in the STANDARD DRAWINGS.

25.2 EVALUATION

For all new developments, there shall be a requirement for an evaluation by the DIRECTOR as to the need of the development to incorporate the use of reclaimed water. The DIRECTOR shall review the take-back capacity of the proposed development to determine if connection to the reclaimed water system represents a benefit to the CITY. The DEVELOPER'S ENGINEER shall place all take-back calculations, based on CITY approved wastewater flow quantities, on the development plans. Reclaimed water usage shall equal or exceed anticipated wastewater flows.

25.3 MANDATORY CONNECTION

Upon completion of the evaluation, the DIRECTOR shall have the authority to require the development, including all individual lots and tracts therein, to connect to the reclaimed water system. A fully automatic reclaimed water irrigation system shall serve all landscaped and sodded areas of the development, including all adjacent rights-of-way and alleys. This requirement shall also apply to each lot and tract of a subdivided development.

The DEVELOPER shall be responsible for all costs necessary to provide onsite distribution and offsite transmission to the development. Connection to the City's reclaim water system is mandatory under the following schedule as measured along public right-of-ways, alleys, easements and railroad right-of ways.

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Structures	within distance of (x) Feet	Min. size pipe
All single family structures	330	2-inch
Multi-family or town homes complex of 35 or less units	1250	4-inch
Multi-family or town homes complex of 36 - 75 units	1500	4-inch
Multi-family or town homes complex of 76 - 100 units	1700	4-inch
Multi-family or town homes complex of 100 or more units	25ft each additional unit	6-inch
commercial or industrial, 4,999 or less Gross Sq. Ft.	900	2-inch
commercial or industrial, 5,000 - 25,000 Gross Sq. Ft.	1250	4-inch
commercial or industrial, 25,001 - 60,000 Gross Sq. Ft.	1500	6-inch
commercial or industrial, greater than 60,001 Sq. Ft.	200ft each additional 100,000 sq. ft.	8-inch

25.4 SYSTEM SEPARATION

A minimum horizontal separation of three (3) feet, outside of pipe to outside of each pipe or five (5) feet center to center of the , shall be maintained between reclaimed water facilities and potable water or wastewater mains.

25.5 REQUIRED PLAN INFORMATION

All plans submitted by the DEVELOPER shall contain the following statement:

The DEVELOPER shall construct reclaimed water distribution facilities to the proposed development and to each lot and tract within said development.

A fully automatic irrigation system, utilizing reclaimed water, shall be installed by the DEVELOPER so as to provide total coverage for all landscaping, including hedges, trees, and grassed areas, for the proposed development and each lot and tract, therein.

Take-back calculations shall be clearly stated on all plans and contain the following information:

- Total Acreage
- Irrigated Acreage
- Potable Water Usage (in G.P.D.)
- Reclaimed Water Usage (in G.P.D.)
- Wastewater Generation (in G.P.D.)

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All development plans submitted for CITY approval shall contain a complete irrigation plan whether reclaimed water is available at the time of development or not.

The daily amount of reclaimed water to be used shall be based on the number of sprinkler heads in each zone times the average sprinkler head design flow in gallons per minute times a minimum weekly operation time of sixty (60) minutes times the total number of zones in irrigation system divided by seven (7) days in a week.

$$\text{Reclaimed Water Usage (G.P.D.)} = (\text{Heads per Zone}) \times (\text{Avg. G.P.M. Head Flow}) \times (60 \text{ Minutes per Week}) \times (\text{Total Zones in System}) / (7 \text{ days per Week})$$

25.6 LOCATION AND IDENTIFICATION

All lettering shall be legible and colors correct for the intended use. All reclaimed water facilities shall be identified using light stabilized Pantone Purple 522C. See STANDARD DRAWINGS.