

February 25, 2021

### Drainage Narrative

The proposed Washington Avenue Apartments is a 173 unit multi-family development within the Clearwater CRA. The project site is 3.36 acres MOL and is currently cleared and vacant. The project is within the drainage basin for Prospect Lake Park, AKA Town Pond.

Town Pond is an existing wet detention pond that serves an approximately 101-acre basin in the downtown area, including the subject property. Town Pond was recently improved to add volume by expansion (west bank) and littoral shelf creation which were permitted under SWFWMD permit 44-22515-000, 44-22515-007, and 44-22515-008 modifications.

Town Pond was designed for treatment and attenuation for a CN of 98.1 from the contributing basin. This ensures that any project contributing to town pond will not exceed the allowable CN and therefore does not need to inventory impervious coverage (understanding that 100% impervious coverage is reported as CN 98). The development will enter into the use agreement and pay the calculated fee.

Conveyance to Town pond will occur by underground storm sewer construction and sized in accordance with City of Clearwater Stormwater Drainage Criteria Manual. Runoff from the project will be generated using the rational post development c value, 1 hour TC and 10 year event. RCP will be used within the R/W for conveyance at an N value of 0.13 as stated in the drainage criteria manual.

#### Wetlands/Habitat

There are no wetlands within the project area.

#### Historic Flow Patterns

The site historically drains from southeast to northwest. Most of the site contained warehouse buildings and other impervious improvements until 2006. In 2017 the site was used as a materials storage yard.

#### Groundwater

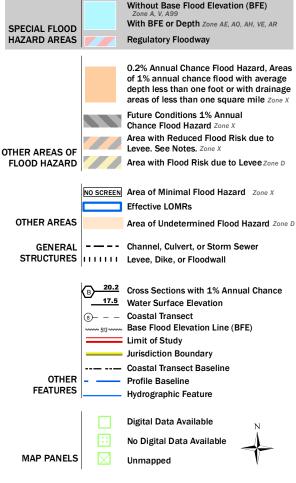
A geotechnical investigation, performed by ECS, Inc, seasonal high groundwater is 1-2 feet below the existing surface.

## National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



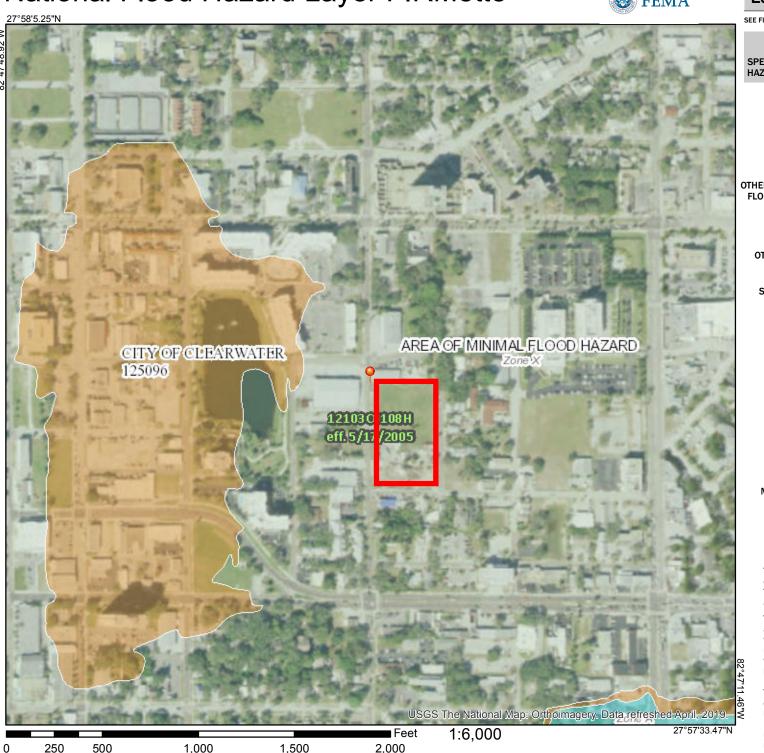


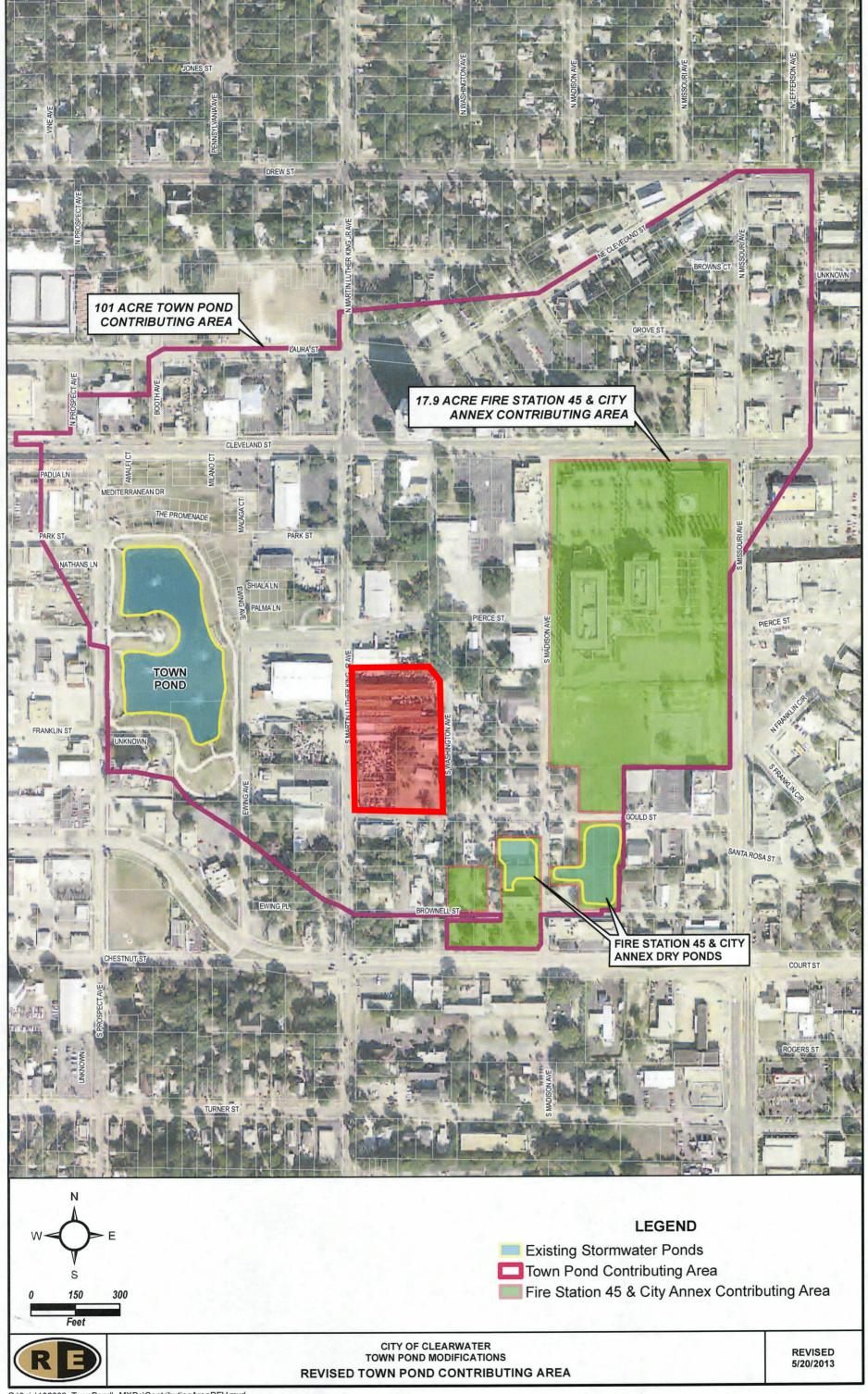
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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# CLEARWATER TOWN POND MODIFICATIONS POST-DEVELOPMENT STORMWATER ANALYSIS

Basin Area, Curve Number, and Tc Summary

BASIN	AREA	CN	TC	
#	(ac)		(min)	
TownPond	83.10	98.1	60	
TOTAL	83.10			

