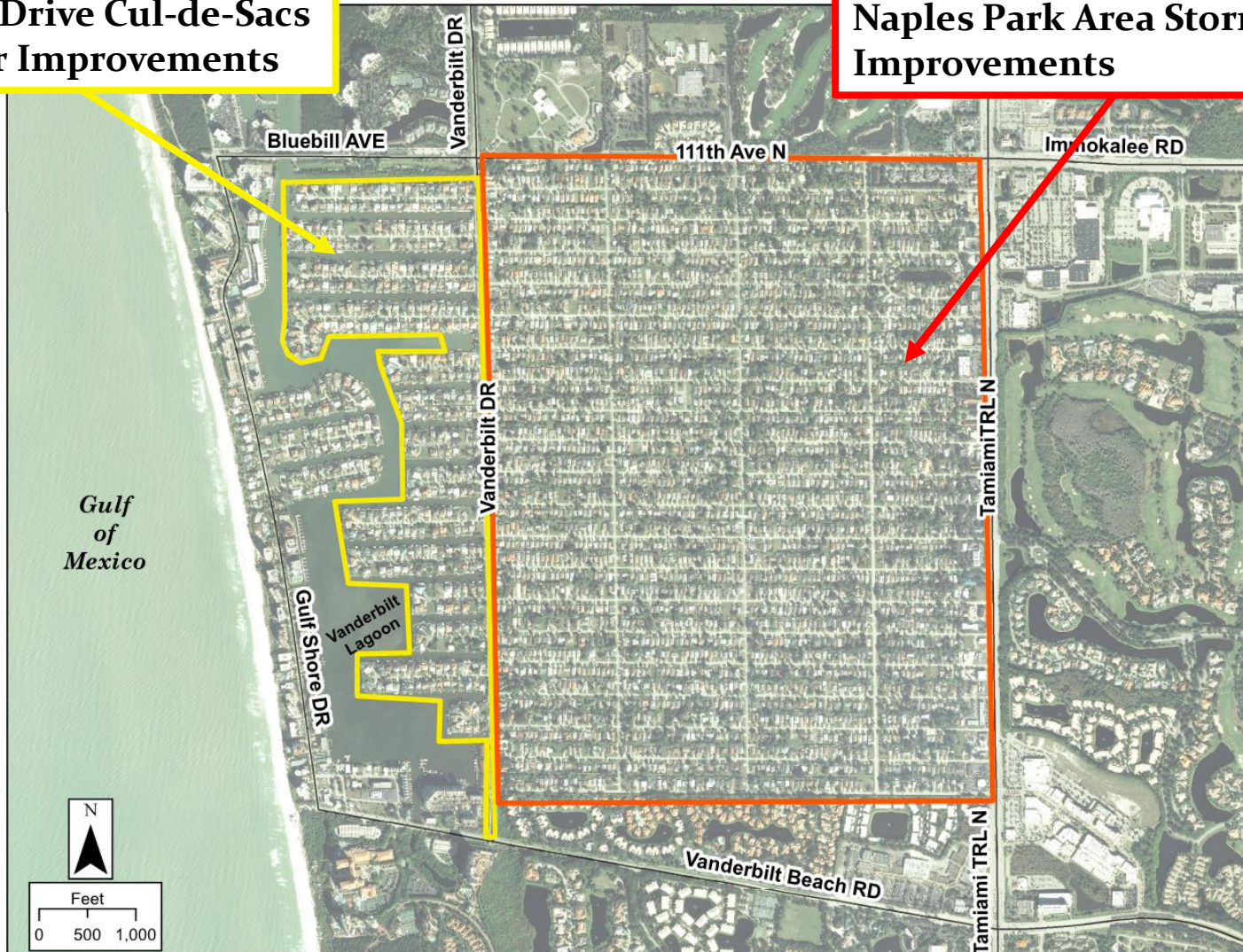


Collier County Stormwater Projects within the Cocohatchee Watershed

January 13, 2017

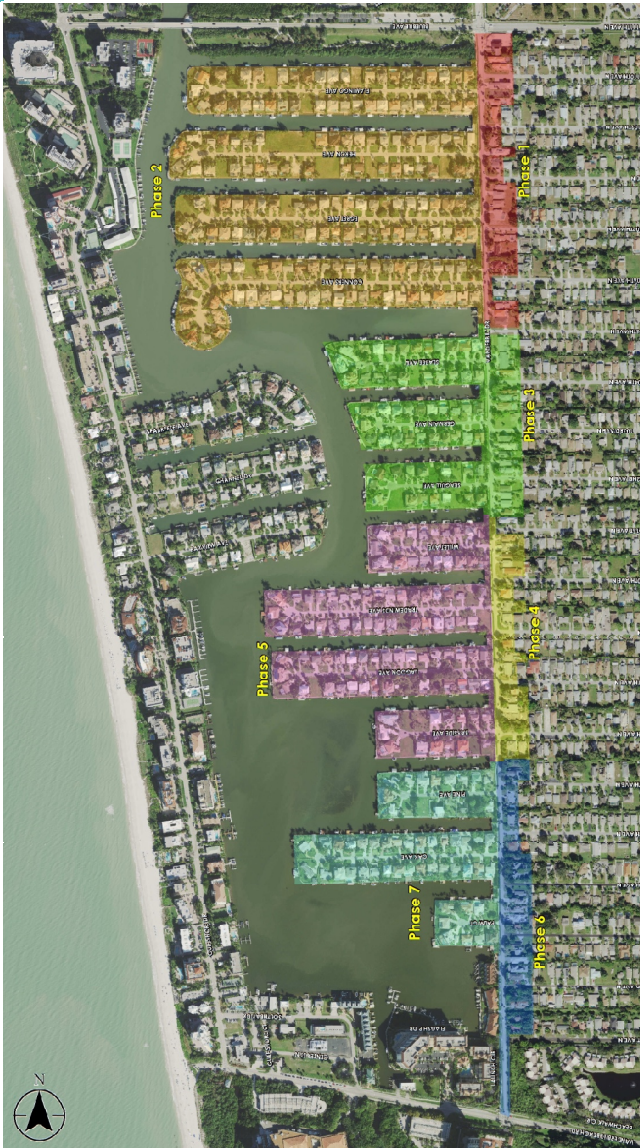
Vanderbilt Drive Cul-de-Sacs Stormwater Improvements

Naples Park Area Stormwater Improvements



Vanderbilt Drive Cul-de-Sacs SW Improvement Project

- Improvements along:
 - East side of Vanderbilt Drive from Bluebill Ave to Vanderbilt Beach Road
 - Fourteen (14) cul-de-sacs west of Vanderbilt Drive
- On-going construction
 - Contractor: Mitchell & Stark
 - Commencement: Oct-2016
 - Completion: Nov-2018 (expected)
- Coordinated effort between GMD and PUD
 - Water main replacements
 - Wastewater force main replacements



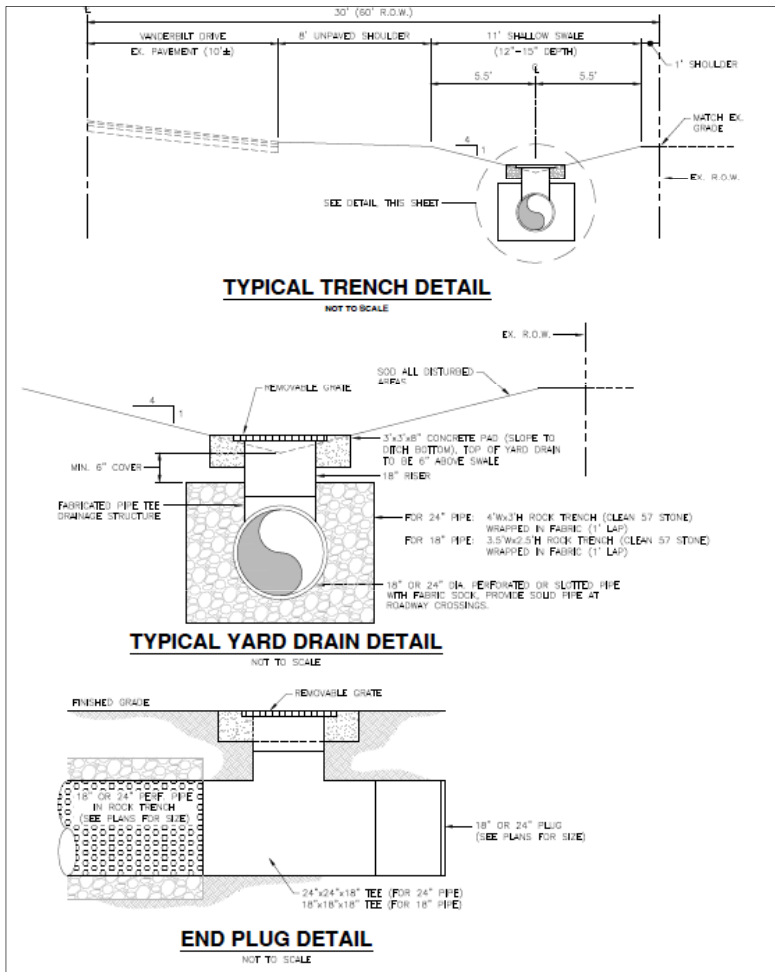
Vanderbilt Drive Cul-de-Sacs SW

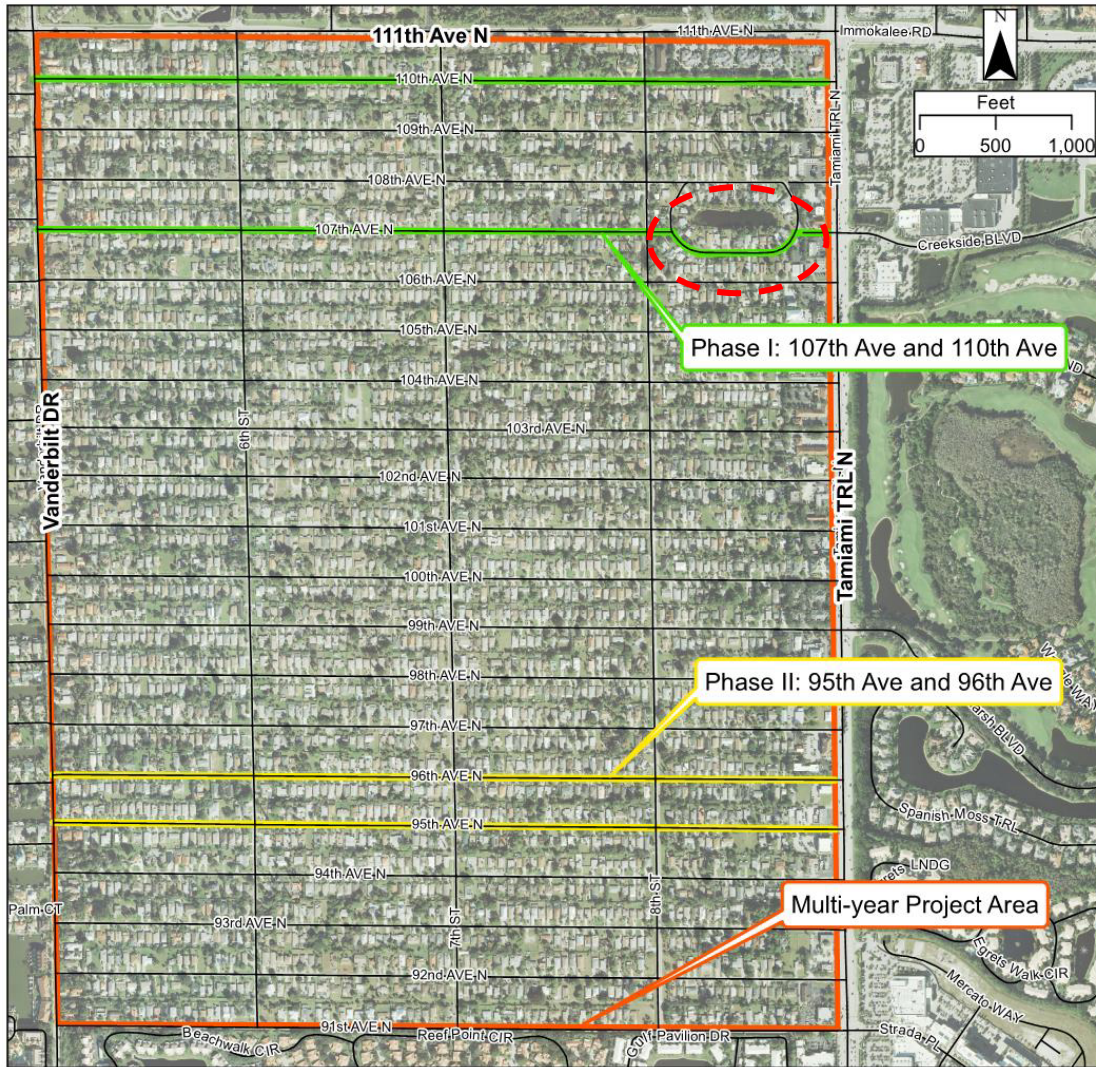
Existing Conditions

- Vanderbilt Drive
 - Combination of open swales and pipes along the east side
 - Aged infrastructure of various materials and sizes (generally under sized)
 - Elevation issues causing inappropriate collection and conveyance of runoff
- Cul-de-sacs
 - Roadside drainage poorly graded and often non-existing swales
 - Driveways culverts of different sizes at improper elevations

Vanderbilt Drive Cul-de-Sacs SW Proposed Improvements

- Vanderbilt Drive
 - Replace all existing stormwater infrastructure along the east side
 - Perforated pipe placed on gravel bedding to promote exfiltration. And shallow swale on top.
 - Catch basin with deep sumps to capture sediments before reaching Vanderbilt Lagoon.
- Cul-de-Sacs
 - Supplement the existing drainage system with:
 - HDPE mainline drain pipe
 - Yard drains
 - New swales
 - New driveway culverts





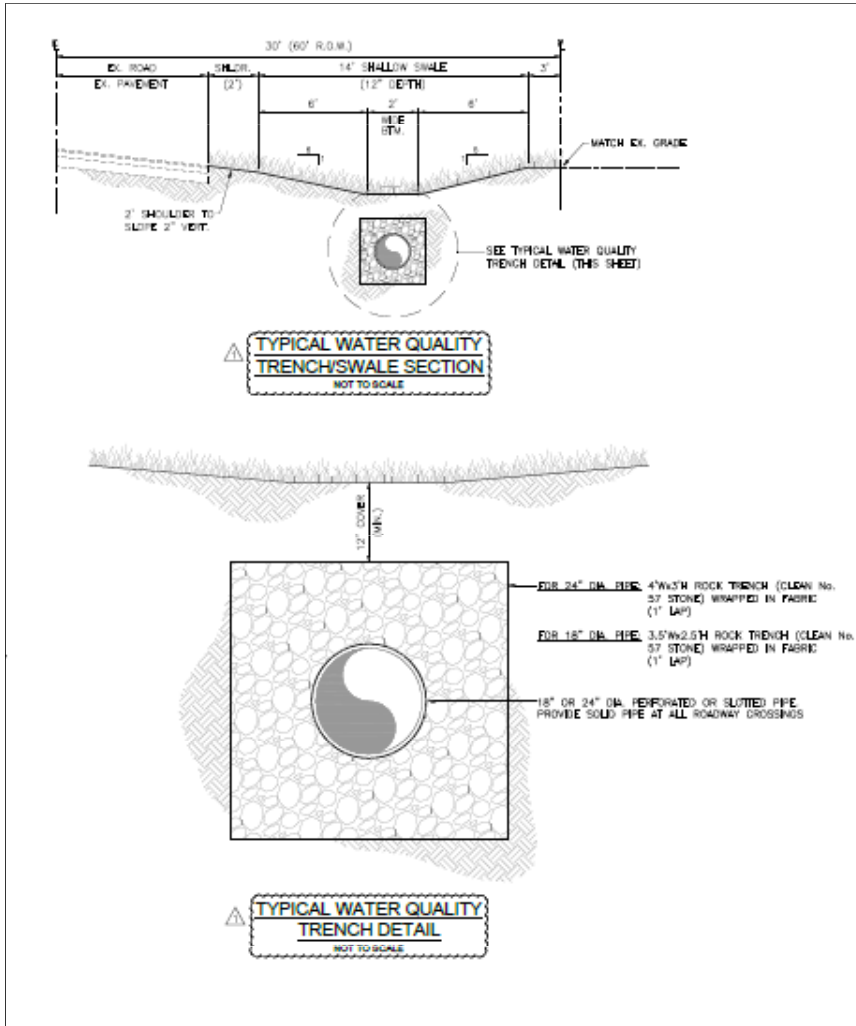
Naples Park Area SW Improvement Project

- Coordinated effort between GMD and PUD
 - Water main replacements
 - Wastewater force main replacements
- Phase I:
 - Design and Bids completed
 - Construction commencement by Jan-2017 (expected)
- Phase II:
 - Planning/design stage
 - Construction expected in 2018

Naples Area SW Improvement Project

- Existing Conditions
 - Combination of open/enclosed swales and culverts
 - Aged infrastructure of various materials and sizes (generally under sized)
 - Elevation issues causing inappropriate collection and conveyance of runoff
- Phasing
 - Target two (2) streets per fiscal year (north to south)
 - Phase I & II – Awarded \$750,000 as part of 2015-16 & 2016-17 Legislative Appropriations.
 - But, priority is given to streets presenting wastewater and water breakages/malfunctions

Naples Area SW Improvement Project



- Proposed Improvements
 - Removed aged infrastructure
 - Installation of perforated pipe (18" and 24"), yard drains and sedimentation traps with deep sumps to capture sediments.
 - For Phase I: Sections between Vanderbilt Dr and 6th Street North will have perforated pipe placed in gravel water quality trench to allow runoff to percolate.

Questions?

