

Memorandum



Date:	May 26, 2022	To:	Kerry Hitt
From:	Dana Gillette	Office:	West Palm Beach
Project Name:	Pine Tree Water Control District	Project No.:	60318
Subject:	Flying Cow Road	Copy:	

I reviewed Flying Cow Road. It is a paved roadway along the eastern edge of the PTWCD. Adjacent to the roadway to the east is the Village of Wellington's C-1 canal. There are three roundabouts on the roadway: the southernmost one is south of Section 24, the middle one is at the north edge of Section 24/south edge of Rustic Ranches, and the northernmost one at the north edge of Rustic Ranches. There is a multiuse trail along the roadway. At the southern end of the roadway the multiuse trail is east of the roadway and located within the C-1 canal easement, north of Rustic Ranches the multiuse trail is west of the roadway. My review has been limited in time and scope and at this time I believe the following:

1. Portions of Flying Cow Road roadway were permitted by the SFWMD on 9/24/2008 (application #080206-12), modified on 2/12/2010 (application #091125-20), and modified again on 7/7/2010 application 100625-16. The plans associated with those permits show piped connections from the roadway to the PTWCD canals at the middle and north roundabouts. Both roundabouts show a closed pipe system that carries stormwater from the swale along the Flying Cow Road into the PTWCD canals. There is an 18" pipe into the PTWCD canal along the south side of Rustic Ranches and a 24" pipe into the PTWCD canal along the north side of Rustic Ranches.

This item has been digitally signed and sealed by Dana I. Gillette, PE on the date indicated adjacent to the seal.

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2. The southernmost portion of Flying Cow Road south of Rustic Ranches:
 - a. Is located on land that is owned by the Village of Wellington (Village).
 - b. Is maintained by the Village.
 - c. The plans that I reviewed from the SFWMD files show that the design for this portion of the road was to drain to the Section 24 property and I observed inlets and pipes that match those plans. I also observed inlets near the south end of the paved portion of the roadway and one near the southernmost roundabout that connect to pipes that discharged to the C-1 canal.



3. The portion of Flying Cow Road at and near the middle roundabout at the north end of Section 24 (also the south end of Rustic Ranches):
 - a. Is located on land that is owned by the Village up to the north edge of Section 24. North of that line the land is owned by one of the homeowners in Rustic Ranches (16028 Norris Road) and subject to an ingress egress easement.
 - b. Is maintained by the Village.
 - c. Drains to the PTWCD canal along the south side of Rustic Ranches via an 18" pipe.



4. The portion of Flying Cow Road along Rustic Ranches:
 - a. Is located on land that is owned by several of the homeowners in Rustic Ranches whose lots abut Flying Cow Road and subject to an ingress egress easement.
 - b. Is maintained by the Village.
 - c. This portion of Flying Cow Road was designed to slope to the east to a swale in between the roadway and the multi-use trail.
 - i. There was no overflow or connection from that swale to Wellington's C-1 canal to drain the roadway shown on the plans on file at the SFWMD. I observed one inlet in the swale on the east side of the road with a small pipe draining into the C-1 canal in this section of the roadway.
 - ii. The multiuse trail between the swale and the C-1 canal is higher than the roadway and therefore, when the swale is full and overtopped, the overflow would pass over the road and into the swale on the east side of Flying Cow Road.
 - iii. It appears as if some or all of the pavement may have been built to slope to the west rather than to the east as designed. This would require a field survey to verify.
 - d. There is a swale on the west side of the roadway that appears to be draining some, if not all, of the roadway. That swale on the west side of the roadway interconnects with the swales along the unpaved roadways within the Rustic Ranches subdivision and the PTWCD system. Therefore, the PTWCD system provides some drainage for this portion of Flying Cow Road.



5. The portion of Flying Cow Road at and near the northernmost roundabout at the north end of Rustic Ranches:
- a. Is located on land owned by one of the homeowners in Rustic Ranches (16031 Rustic Rd) and subject to an ingress egress easement. North of the north edge of Rustic Ranches, the land is owned by the Village.
 - b. Is maintained by the Village.
 - c. Drains to the PTWCD canal along the north side of Rustic Ranches via a 24" pipe.



6. The portion of Flying Cow Road north of Rustic Ranches:
 - a. Is located on land owned by the Village.
 - b. Is maintained by the Village.
 - c. Appears to drain to the west to a swale along the west side of the roadway in between the roadway and the SFWMD Stormwater Treatment Area (STA). There does not appear to be an overflow or connection from that swale to Wellington's C-1 canal or to the STA.

