
INTEROFFICE MEMORANDUM

TO: KEN COMIA, PLANNER
FROM: TAMARA RICHARDSON, PE, TSR CONSULTANTS, PLLC
SUBJECT: SOUTHGATE CONSTRUCTION PLANS – REV 1 – #2016-12
DATE: MARCH 4, 2016

I have reviewed the subject project plans, dated February 19, 2016 for compliance with the City of Groveland Code of Ordinances and Manual and have the following comments:

General:

1. Provide signed and sealed engineering drawings for final approval.
2. Provide one copy of a certified boundary survey.
3. Valve spacing in the potable water system shall not exceed 500-foot intervals.
4. Fire hydrant spacing shall not exceed 500-foot intervals in a residential development.
5. Provide approval of the street name from Lake County Emergency Services.
6. Include a street lighting plan in the plan set.
7. Provide a letter from Lake County Public Works approving the design of the modifications to CR 33.
8. Provide a sketch and description of the easement provided along the church property for utilities.

Sheet 5

9. Include a dedication for the conservation buffer to the St. Johns River Water Management District and the City of Groveland.
10. Include the following information in the Project Characteristics Table:
 - Total pervious/impervious area
 - Length of streets in feet
 - Total length of water lines
 - Total length sewer lines
 - Total length of reclaimed lines
11. The lift station site shall be dedicated as a tract to be owned by the City of Groveland.

Sheet 6 and Sheet 7

12. Indicate how the drainage on the Type A lots will be collected to prevent runoff to adjacent parcels.
13. Include a note that the retaining wall will require a separate permit from the building department.
14. Indicate where the cross sections shown on the grading plans are included in the plan set.

Sheet 8

15. Determine the ownership of the 4-inch force main from the adjacent property to the lift station site.
16. Changes in direction of pressure pipes shall be accomplished using fittings. Pipe deflection is not permitted.

Sheet 9 and 10

17. Specify that the reclaimed water pipe shall be purple.
18. Specify that pressure pipe crossing beneath or around storm sewer pipe shall be not be deflected, but shall use fittings to accomplish the change in direction.
19. Provide a detail for the ARV's for the water and reclaimed mains.

Geotechnical Report

20. The geotech report states that dewatering may be required during construction. Include a note in the plans of this possibility.

Wastewater Report

21. Provide the diameter of the pipe receiving the flow from the proposed lift station in the existing system. Include current flows in the existing system and the effect the additional flows will have.

Stormwater Report

22. The report is dated 2006. Has the permit been issued by the St. Johns River Water Management District? If so, is it still current?

Water Report

23. Consider irrigation demands at ADF to evaluate the system performance. Assume half of the lots irrigating during the analysis. Include fire flows during the analysis at the highest point in the system.

Landscape Plans

24. It appears that a street tree is proposed at the same location as the force main from the church property. Verify there is not conflict.