



TERRY E. BRANSTAD, GOVERNOR

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File Name Floris Sewage

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DEPARTMENT OF NATURAL RESOURCES

LARRY J. WILSON, DIRECTOR

July 26, 1995

6-26-22-0-00

Lee Asher
Wapello Rural Water Association/City of Floris
P.O. Box 538
Ottumwa, IA 52501

Re: Floris Wastewater Works, Design Variances

Dear Mr. Asher:

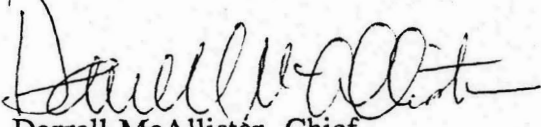
The Iowa Department of Natural Resources has reviewed the variance requests for your wastewater collection and treatment improvement project. Six variances were requested and are approved as follows:

1. Your request for a variance from Design Standard 18C.5.1, which requires a minimum of three cells for all facilities with a water surface area greater than one acre, is approved. This approval is for a two cell lagoon with a water surface area of 2.46 acres.
2. Your request for a variance from Design Standard 13.10.4, which requires a lift station valve pit for submersible pump lift stations, is approved. This approval is for buried valves with a minimum of 10 feet of DIP on either side of the valves
- 3 Your request for a variance from Design Standard 18C.7.2.7, which requires erosion control be provided completely around the inner embankments of all lagoon cells, is approved. This approval is subject to the condition that the city will place riprap completely around each cell should erosion of the embankments start to occur.
4. Your request for a variance from Design Standard 18C.7.4.1, which requires CIP or DIP for lagoon influent lines, is approved. This approval is for a buried PVC pipe for lagoon cell influent lines.
5. Your request for a variance from Design Standard 18C.5.6.2, which requires that an inter-cell control structure be provided to allow drawoff from the primary cell to the secondary cell, is approved. This approval is for replacement of the inter-cell control structure with multi-level DIP drawoff pipes and buried valves.
6. Your request for a variance from Design Standard 18C.7.5, which requires that valves for controlling lagoon discharge be contained in an effluent control structure, is approved. This approval is for the use of multi-level DIP drawoff pipes and buried valves between the secondary cell and the effluent control structure.

Approval of these six variances is based on the project's participation in the small community pilot program. These variances are not to be considered precedents and do not apply to projects outside of the small community pilot program.

If you have any questions or comments on this project, please call Bill Graham at (515) 281-5917.

Sincerely,

A handwritten signature in dark ink, appearing to read "Darrell McAllister", written over the printed name.

Darrell McAllister, Chief
Water Quality Bureau

cc: City Clerk, City of Floris, City Hall, Floris, Iowa 52560
Garden and Associates, P.O. Box 451, Oskaloosa, Iowa 52577
Field Office 6

✓ 9-19-04
VARIANCE REQUEST

Iowa Department of Natural Resources

1.	Date: July 21, 1995	13.	Decision: <i>Approved</i>
2.	Review Engineer: Bill Graham		Date: <i>7/20/95</i>
3.	Date Received: April 17, 1995		
4.	Facility Name: Floris WWTF	14.	Appeal:
5.	County Number: 26		Date:
6.	Program Area: CP (wastewater)		
7.	Facility Type : C02		
8.	Subject Area : 327 (valve pit)		
9.	Rule Reference: 900-64.2(9)a		
10.	Design Stds Ref: 13.10.4		
11.	Consulting Engr: Garden and Associates, Oskaloosa, Iowa		
12.	Variance Rule: 900-64.2(9)c		

15. Description of Variance Request:

The city of Floris and the Wapello Rural Water Association are requesting a variance from the design standard which requires that valves for submersible pumps be located in a separate valve chamber. Floris is proposing using buried valves with ten feet of DIP on either side of the valve.

16. Consulting Engineer's Justifications

Small community pilot project.

17. Department's Justifications

Departmental approval for this variance is recommended since Floris is one of the small community pilot projects.

18. Precedents Used

City of Johnston, approved, 7-10-90

19.	Staff Reviewer: <i>William Thabon</i>	Date: July 21, 1995
20.	Supervisor: <i>Donna Pearson</i>	Date: <i>7/25/95</i>
21.	Authorized by: <i>David Wallato</i>	Date: <i>7/28/95</i>