

Joint Board of Supervisors Drainage Minutes

Of

August 9, 2021

Present at Franklin County: Supervisors Mike Nolte, Gary McVicker, Chris Vanness, Auditor Katy Flint, Drainage Clerk Colette Bruns, Drainage Engineer Lee Gallentine

Present at Wright County: Supervisors Dean Kluss, Rick Rasmussen, Karl Helgevold, Drainage Clerk Courtney Morris, Amanda Meyer, news media, county employees

JDD 85-228 Lat 9 WO #188 with Wright

District Trustee reported a repair to what was thought to be a private tile was in-fact the Lateral 9 tile. Tile was found to be cracked and the water level was approximately $\frac{3}{4}$ full and slow flowing. Broken tile was removed and repaired.

CGA reports that the slow-moving water at such a high level during the drought indicates that there is a potential significant restriction of drainage in the downstream direction. CGA recommends an investigation into the condition of the Lateral 9 tile in the downstream directions (either CCTV or excavation of the Lateral 9 tile at intervals) be conducted before precipitation returns and the upstream reaches the district affected by inadequate drainage.

Wright and Franklin County Board of Trustees agreed to have CGA dig at intervals to investigate the condition of Lateral 9 in the downstream direction. This will be begin after the crops have been harvested. CGA will report back.

JDD 2-100 WO #184 with Wright

Per the recommended actions of the previous investigation summary, the main tile was investigated with CCTV to determine the condition and any drainage restrictions.

CGA reports the majority of sinkholes/blowouts that are visible on the surface are concentrated in the downstream direction of where the CCTV investigation was stopped by root infiltration. While roots were found to be infiltrating the tile in the upstream direction (toward Oakland Drive), it was only partial such that the effect on drainage performance is probably minimal. This may change as the trees mature. The VCP tile was found to be cracked but round. The exception to this was the imminent collapse found in the area beneath the north side of Oakland Drive wooden box culvert. CGA recommends the following:

Option 1:

- Replace the broken VCP main tile and wooden box culvert beneath Oakland Drive with RCP tile and concrete box culvert
- Install tile intakes on both sides of Oakland Drive to intercept overland flow of water and prevent erosion
- Replace the Main tile for the first 400 feet from its outlet
- Install a new headwall at the outlet
- Cut, remove, and treat all trees within 50 feet of the Main tile route

Option 2:

- Convert all the Main tile downstream of Oakland Drive to an open ditch
- Install new headwall upstream of Oakland Drive to outlet the existing Main tile
- Replace the existing wooden box culvert beneath Oakland Drive
- Cut, remove, and treat all trees within 50 feet of the open ditch route

Construction costs for either option would be large enough that an Engineer's Report and hearing would be required.

Wright County Board of Supervisors pointed out that replacing the wood box culvert would be Franklin County Secondary Roads expense but the tile under this is the Drainage District #2-100. This would lower the cost of construction, Gallentine will speak with Secondary Roads to get his opinion and report back with updated costs.

JDD 85-228 Lat 17 WO 164 (all in franklin) but involves Lat 9 which includes Wright

Landowner reported blowout/sinkhole over the Lateral 17 tile in CRP ground.

CGA reports:

1. While work was being completed, an intake for the Lateral 9 was found to be rusty and mangled. CGA recommends repairing this intake so that a sinkhole does not form, and proper drainage is maintained.
2. Two additional areas of large elevation jumps were identified during the CCTV inspection. These may also be corrected to provide unrestricted drainage of the Lateral 17 tile.

Wright and Franklin County Board of Trustees agreed to replace the intake for Lateral 9 with a hickenbottom intake. Franklin Drainage Clerk will send this work order to a contractor to replace the intake.

DD 34 Lat 2 WO 109-Franklin only

Per the recommended actions of the previous summaries, jet cleaning was to take place to complete the cleaning for the upstream end of Lateral 2 tile.

CGA reports that due to the amount of sand/silt that was found during the cleaning, it is possible that one of the private tiles is contributing to the large amount of sediment that was plugging the Lateral 2 tile. The new intake should be checked periodically to ensure Lateral 2 is not plugged again, and if it does occur, steps taken to find the source of sedimentation.

No action taken.

DD 30 WO 186-Franklin Only

The Board of Trustees approved at the June 1, 2021 meeting, for CGA to excavate at 100' intervals to determine the extent of sand/sediment issues.

CGA reported the presence of sand and silt in the main tile at all excavations spanning approximately a length pf 80' points to a larger issue of widespread sedimentation and capacity reduction within the Main tile in this stretch. CGA recommends exploratory excavations be conducted in both the upstream and downstream directions at 100' intervals to determine the severity and extent of sedimentation. This information will help to inform on what actions are necessary to ensure continued drainage and reinstate capacity within the Main tile.


CGA will conduct exploratory excavations.

DD 3 Sub-districts

Should this be reclassified? There have been work orders and where to charge the invoice to which sub-district. Gallentine and Bruns will coordinate maps for easier identification of the sub-districts.



Michael Nolte, Chairman

ATTEST: 

Colette Bruns, Drainage Clerk