



Memo

To: Lesley Nalley CEO
From: Jason Charles Temple PE COO
Date: February 1, 2019
Re: 3-Year Culvert Rehab Plan

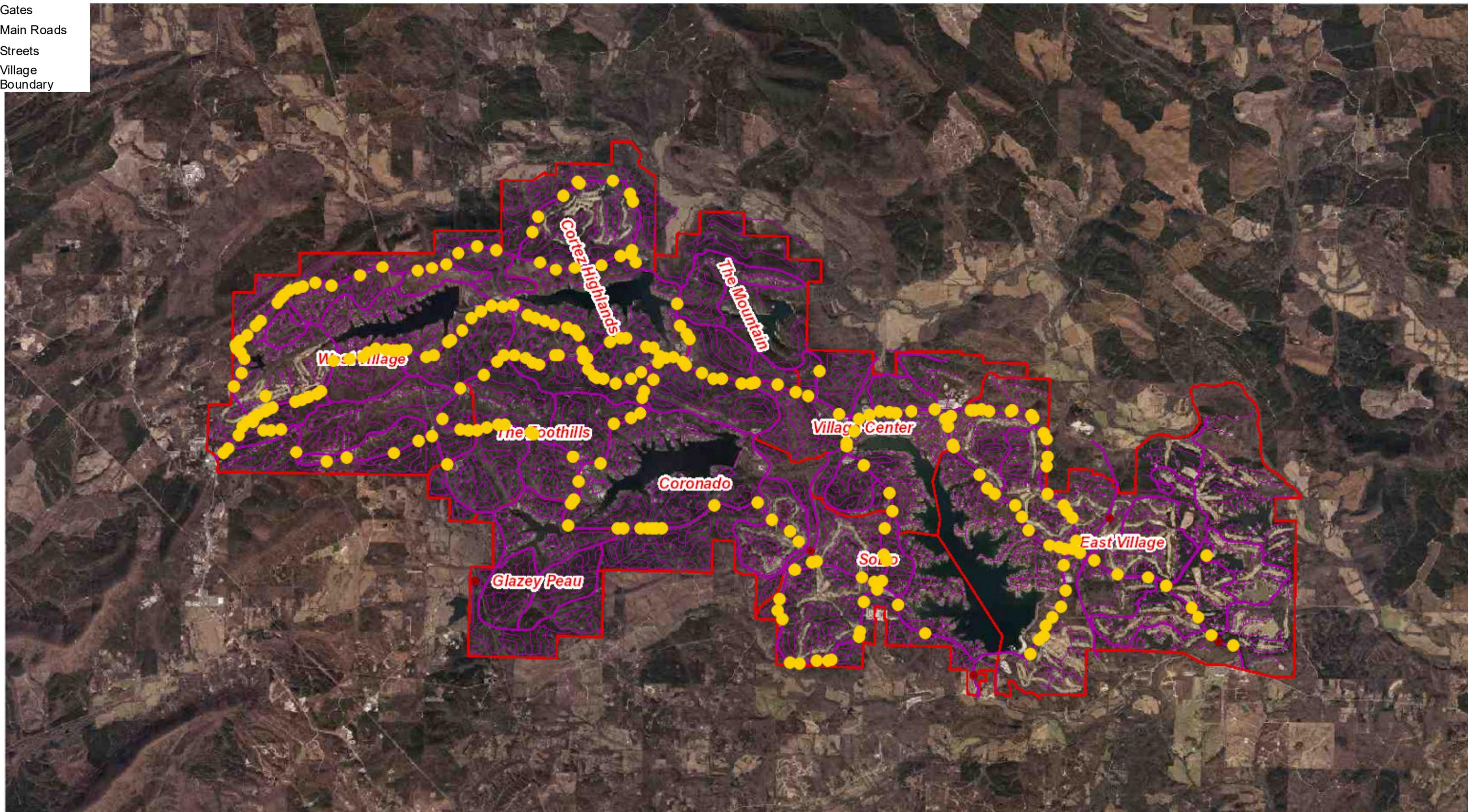
Starting in 2018 the Public Works Department began mapping the stormwater culverts using a satellite based Geographic Information System (GIS) survey device. The aerial map attached shows the culvert locations that were mapped on the major roads to include DeSoto Blvd., Ponce de Leon, Balearic, Balboa, Barcelona, and Cortez roads. The mapping program rated each culvert on a simple prioritization scale of 1 to 5 with 1 = high priority (immediate rehab needed) and 5 = low priority (no rehab needed). The effort to date has mapped 221 culverts of various diameters and types. Out the 221 culvert sites mapped along approximately 50 miles of major roadways, 107 need rehabbing. If the conditions of the known 107 culverts in need of rehab for the 50 miles of major roads are somewhat representative of the culvert conditions for the remaining 400 miles of roadways with unmapped culverts, there could be an estimated total of 1800 culverts inside HSV POA of which approximately half (900 culverts) likely need to be rehabbed.

Staff is continuing with the culvert mapping program. The effort could be expedited by contracting the mapping work. Completing the culvert mapping program in GIS would provide a better overall prioritization plan and a more accurate cost estimating tool to fixing the culverts that warrant rehabbing for the entire POA.

We anticipate culverts throughout the Village to continue to fail that are not on the plan and propose addressing those repairs by reserving 10% of the proposed culvert rehab capital budget for those emergency events.

Legend

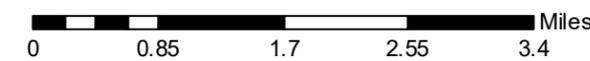
- Culverts
- Gates
- Main Roads
- Streets
- Village Boundary



Hot Springs Village

Date: 2/1/2019

1 inch = 6,564 feet



Disclaimer: This map was created by the Hot Springs Village Property Owners Association and in accordance with Arkansas Code 15-21-502 (2) (B), which states, "The digital cadastral manages and provides access to cadastral information. The digital cadastral does not represent legal property boundary descriptions, nor is it suitable for boundary determination of the individual parcels included in the cadastral." Arkansas Code 15-21-502 (6) indicates that "Digital cadastral" means the storage and manipulation of computerized representations of parcel maps and linked data bases." The parcel lines shown are considered a graphical representation of the actual boundaries. The Hot Springs Village Property Owners Association is in no way responsible for or liable for any misrepresentation or re-use of this map.