



FEMA

U.S. Department of Homeland Security
Federal Emergency Management Agency
Region 6 Environmental and Historic Preservation
800 North Loop 288
Denton, TX 76209

SITE VISIT REPORT FEMA-4233-DR-TX

DATE: 01/18/2018

MEMORANDUM FOR: File

Grants Manager

FROM: K Bruce Coulter – EHP Floodplain Specialist

WORKORDER # 4493

APPLICANT: San Augustine, City of

IN ATTENDANCE (Include sign in sheet):

Leroy Hughes – Mayor, City of San Augustine
John Camp – City Manager, City of San Augustine
Gary Gamel – FEMA PA, Site Inspector
Chance Noonkester – FEMA PA, Site Inspector
Matthew Shelton – FEMA PA, Site Inspector
Reginald Webb – FEMA 406 Mitigation
Michael Jackson – FEMA 406 Mitigation

Facility: Park St Culvert

Damage #: 49640

Latitude/Longitude: 31.5347, -94.1106

The Park Street runs beside the tow park. The damage is a sink hole caused by water undermining the road at a drainage culvert. The hole is approx. 15" x 36". The culvert itself was found to be dry. There was no water. The culvert is a combined CMP and RCP that is 30" dia and 24' long. At the time of the inspection it was unknown whether there was damage done to the culvert. The applicant is unsure at this time how they intend to repair the site. It is expected that they will contract the work out.

Per the Map Service Center Park St is on FIRM 480552B Panel 1 Dated 10/19/9182. It is located in Zone C and not in a mapped floodplain (not in a special high flood area)

A check of the USGS TNM 2.0 Viewer shows that that the culvert is not located in Waters of the United States. No permitting is required from the USACE for any repairs to the culvert.

A check of the NWS Wetland Mapper indicates that there are no wetlands near the damage site

A check of FWS iPac indicates that there is no critical habitat in the project site area.

Suggested mitigation for this site is to install a headwall for the culvert on the north side of Park St.



Photo 1: Park St. Sink hole created during the storm.



Photo 2: South end of Park St. culvert. Culvert is dry.



Photo: 3 North side of Park St. showing the culvert.



Photo 4: Park St. looking south (downhill) from damage site



Photo 5: Park Street looking east



Photo 6: Park St looking west

Facility: Goldenway

Damage # 49637

Latitude/Longitude: 31.532871, -94.112561

Goldenway culvert/bridge is located on the outskirts of the City of San Augustine in a residential area. The structure consists of a central 48" dia. x 28' long CMP that has been crushed. This pipe has an overflow pipe on either side of the main pipe, that are 30" dia x 28' long. The CMP plugged and the water overtopped the road causing erosion on both sides of the structure. The Goldenway is currently closed to traffic. The damage is such that the applicant does not feel that what is remaining of the bridge/culvert is repairable and that a new facility needs to be constructed. There is also concern that the culverts were insufficient in size and need to be upsized.

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Per the Map Service Center Goldenway is on FIRM 480552B Panel 1 Dated 10/19/9182. It is located in Zone C and not in a mapped floodplain (not in a special high flood area)

A check of the FWS Wetland Mapper indicates that there is a PFO1A (palustrine forested temporary flooded) within ½ mile of the project site. It is unlikely that the project will encroach on the wetlands.

A check of FWS iPac indicates that there is no critical habitat in the project site area.

A check of the USGS TNM 2.0 Viewer shows that that the culvert/bridge traverses an unnamed tributary to Ayish Bayou. Therefore this project is located in Waters of the United States. This project may require an additional permit from the USACE – Fort Worth District. The USACE must be should aware of this project site.

Suggested mitigation for this site is to replace the existing structure of culverts and fill with a full span bridge. Should this mitigation be implemented, co-ordination with the USACE Fort Worth District is imperative



Photo 7: Goldenway Bridge /Culvert showing the degree of erosion that occurred during the storm event.



Photo 8: Upstream (east) side of road structure. Showing 48" dia CMP pipe.



Photo 9: Downstream (west) side of the drainage structure showing main pipe and the overflow pipe



Photo 10: Goldenway looking south. The dirt was placed on the roadway by the city to stop traffic from crossing the bridge/culvert

Facility: Bierhalter Street

Damage #: 49639

Latitude/Longitude: 31.536873, -94.107407

Bierhalter St is located in wooded area north of the residential areas of the city of San Augustine. Most of the damage is washed out road surface. There is a damaged culvert, 30" dia x 22' long. There is damage to the north end of the culvert. The south end of the culvert has a monolithic concrete headwall and wing walls cast around it. The applicant is reluctant to replace the culvert because of this headwall.

Per the Map Service Center Bierhalter St is on FIRM 480552B Panel 1 Dated 10/19/9182. It is located in Zone C and not in a mapped floodplain (not in a special high flood area)

A check of FWS iPac indicates that there is no critical habitat in the project site area.

A check of the NWS Wetland Mapper indicates that there are no wetlands near the damage site

Construction of a headwall on the north side of the road has been proposed as hazard mitigation for this site. Should this mitigation be implemented, co-ordination with the USACE Fort Worth District is suggested.

A check of the USGS TNM 2.0 Viewer shows that that the culvert traverses an unnamed tributary to Ayish Bayou. Therefore this project is located in Waters of the United States. This project may require an additional permit from the USACE – Fort Worth District. The USACE must be should aware of this project site.



Photo 11: Damaged Culvert on the north side of Bierhalter Rd.



Photo 12 : Outlet of culvert, showing headwall encasing the culvert



Photo 13: Downstream view, looking south from Bierhalter St.



Photo 14: Bierhalter St looking east from the culvert



Photo 15: Bierhalter St looking west from the culvert

Facility: Milam Street Culvert and Roadway

Damage #: 49638

Latitude/Longitude: 31.541196, -94.102742

The culvert at this location was completely destroyed and the road is closed to traffic. The culvert was a 42" dia. 24' long concrete pipe. The hole that was cut by the water is 8' wide by 24' long to a depth of approx. 4'.

There are several utility lines that have been exposed as a result of the washout including water and gas lines.

Per the Map Service Center Milan St. is on FIRM 480552B Panel 1 Dated 10/19/9182. It is located in Zone C and not in a mapped floodplain (not in a special high flood area)

A check of FWS iPac indicates that there is no critical habitat in the project site area.

A check of the NWS Wetland Mapper indicates that there are no wetlands near the damage site

A check of the USGS TNM 2.0 Viewer shows that that the culvert traverses an unnamed tributary to Ayish Bayou. Therefore this project is located in Waters of the United States. This project may require an additional permit from the USACE – Fort Worth District. The USACE must be should aware of this project site.

Construction of a headwall on both ends of the culvert has been proposed as hazard mitigation for this site. Should this mitigation be implemented, co-ordination with the USACE Fort Worth District is suggested.



Photo 16: Washout on Milan St. facing west



Photo 17: Damage site looking south downstream.



Photo 18: Looking north upstream from damaged culvert (Milan St.)



Photo 19: Milan St looking north from the damaged culvert



Photo 20: Milan St. looking south from the damaged culvert