



Bexar County Public Works Department Flood Control Program



Bulverde Rd. at Mud Creek Trib. A
(SC-27)

February 23rd, 2016

- Introductions
 - Bexar County Flood Control (Engineering and PR)
 - Office of the County Manager (Public Information Officer)
 - Design Consultant (RJ Rivera Associates, Inc.)
 - Bexar County Flood Control (Construction Management Team)
 - Construction Inspections (Civil Engineering Consultants)
 - Material Testing (Raba Kistner Consultants, Inc.)
 - Contractor (Thyssen-Laughlin, LLC)
- Program Background
- Project Details and Construction Schedule
- Q&A



Program Background



Bexar County Flood Control Program

- 10-year, \$500 Million Capital Improvement Program
- Currently in year 9 of 10, with numerous projects heading into construction phase.
- The Hill Country is known as flash flood alley, with 1,000 ft. elevation drop across Bexar County.
- Flood Control program works with local municipalities and agencies to deliver projects that alleviate flooding across the region.
- Half of all flood deaths occur in vehicles.
- Turn around, don't drown!

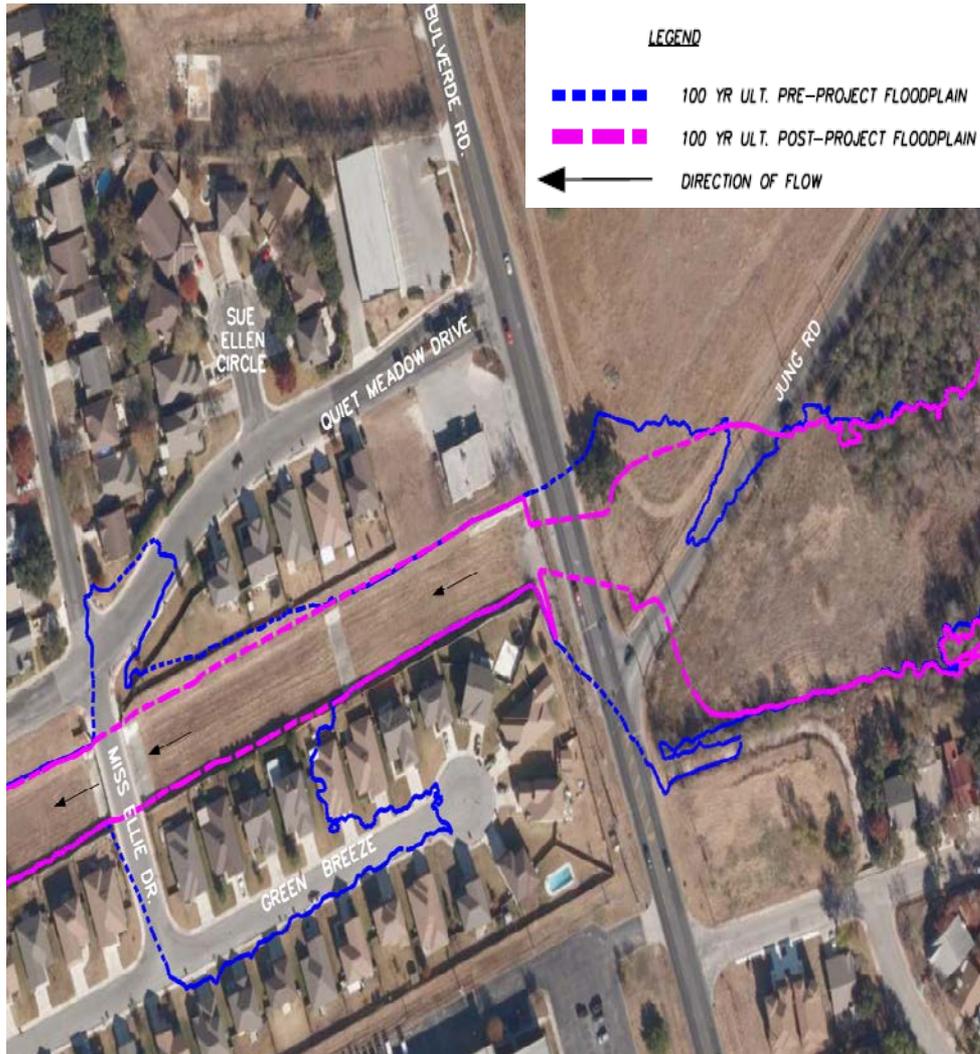


Project Overview



- Eliminating low water crossing on **Jung Rd.**, via Jung Rd. realignment .
- Eliminating low water crossing on **Bulverde Rd.**, between Jung Rd. and Quiet Meadow, adding bridge-class MBC crossing under Bulverde Rd.
- Enhancing culvert capacity on **Miss Ellie Dr.**, between Quiet Meadow and Green Breeze, reducing back water effect that causes flooding.
- Construction Cost: \$3.2 Million.

Project Benefits



- Allows for unflooded vehicular travel across Mud Creek Unnamed Tributary A during storm events up to the 100-year (1% annual chance) storm event.
- Allows emergency responders to safely travel across the Tributary during storm events, improving response times.
- Eliminates the need for barricades and lengthy detour routes during storm events.
- Flood study shows that improvements will lower the WSE by over 2' on Bulverde Rd.
- Improves safety, sight distance and traffic flow at the Bulverde Rd. and Jung Rd. intersection.
- Removes several homes on Green Breeze out of the FEMA 100-yr floodplain, removing need for flood insurance and allowing residents to get out safely during rain events.



Project Details



Other Considerations

- Improvements, including roadside ditches along New Jung Rd. and Bulverde Rd. will become property of, and maintained by, the City of San Antonio.
- All disturbed areas will be vegetated using native seed mixes.
- Utility relocations (CPS, SAWS, Telecoms) will be necessary to accommodate the improvements. CPS & Telecoms have already started relocations.
- Project will be constructed in phases and detours will be utilized when necessary. Motorists will be notified in advance of modifications to the construction and traffic phasing.
- Notification beacon will be installed for southbound Bulverde Road traffic to alert motorists of new signal ahead.

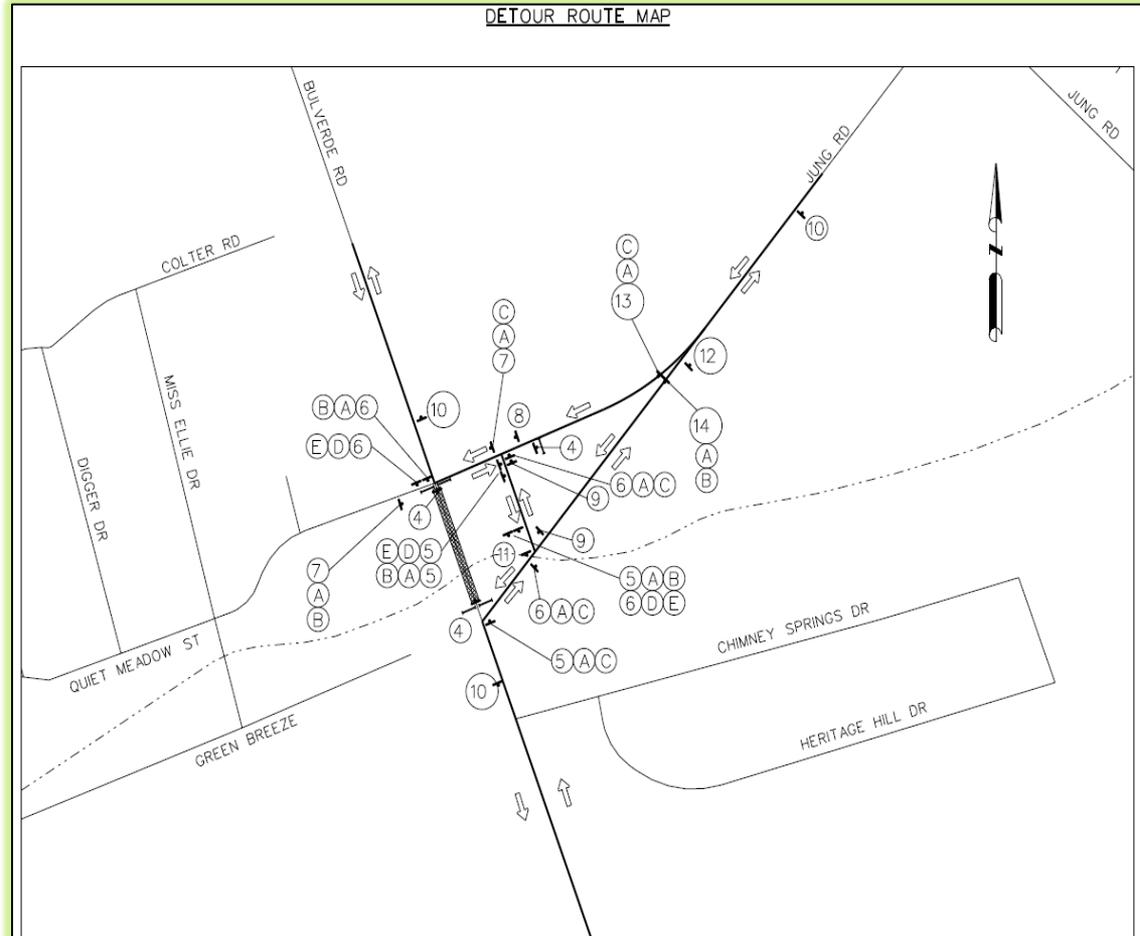
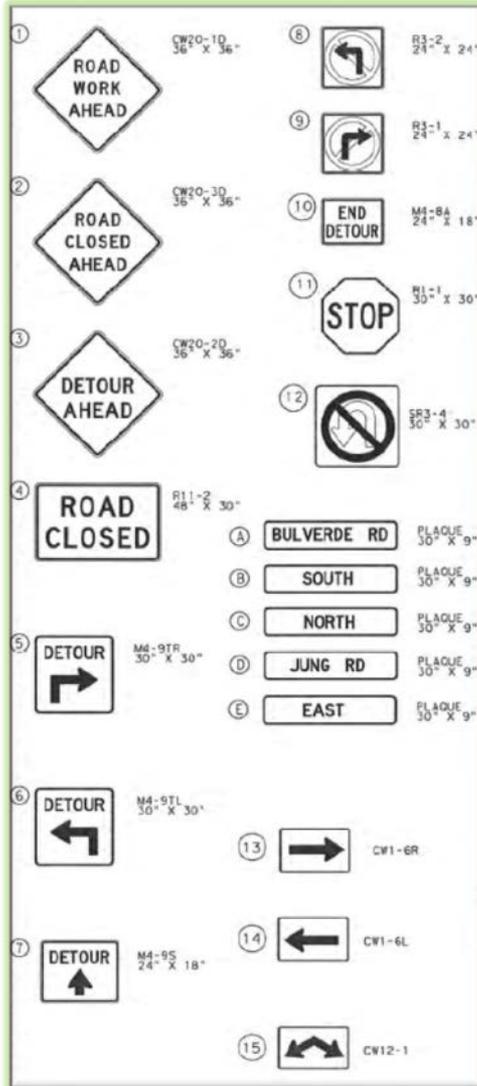
– Phase I

- Improvements to **Bulverde Rd.** and **Quiet Meadow** intersection, including installation of new traffic signal.
- SAWS new water mains and services to be installed on Bulverde Rd. as well as new CPS gas line.
- SAWS new water/sewer mains and services to be installed on Quiet Meadow.
- Construction of pavement for **new Jung Rd.**, including SAWS water mains/services and **temporary detour roadway**.
 - Bulverde Rd. and Jung Rd. remain open during construction activities.
 - Existing traffic signal at Bulverde Rd./existing Jung Rd. intersection will remain operational.

– Phase II

- Construct **Bulverde Rd.** drainage improvements (bridge class culverts and ditches) & complete SAWS and CPS work.
 - Bulverde Rd. closure (between exist. Jung Rd. and Quiet Meadow) to allow for shorter construction duration and reduced cost. New light at Quiet Meadow/Bulverde Rd. will be activated (S, E and W bound). Traffic light at exist. Jung Rd. and Bulverde Rd. will be de-activated and removed.
 - » Southbound traffic will detour through new Jung Rd. and temporary road installed in Phase I. Eastbound traffic only on New Jung Rd. between Bulverde Rd. and temp. detour.
 - » Northbound will detour through existing Jung Rd. following to temporary road.
 - » Westbound traffic only allowed for new Jung Rd.
 - » Existing Jung Rd. will remain open in both directions.

Phase II Detour





Construction Phasing



– Phase III

- Install temporary construction lanes to improve sections of Bulverde Rd.(east and west) while two way traffic is allowed.
- Open new Jung Rd. to normal traffic from Bulverde Rd.
- Existing Jung Rd. and temporary detour pavement demolition.
- Continue drainage improvements.

– Phase IV

- Mill & overlay Quiet Meadow and Bulverde Rd. as shown on the plans.

Miss Ellie Drive

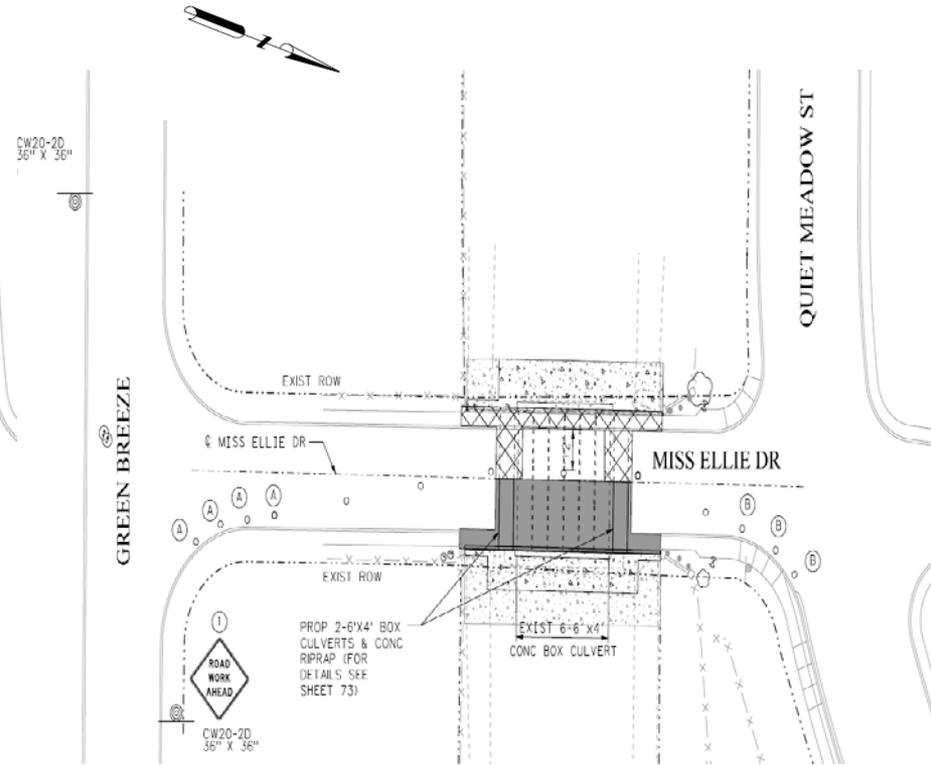
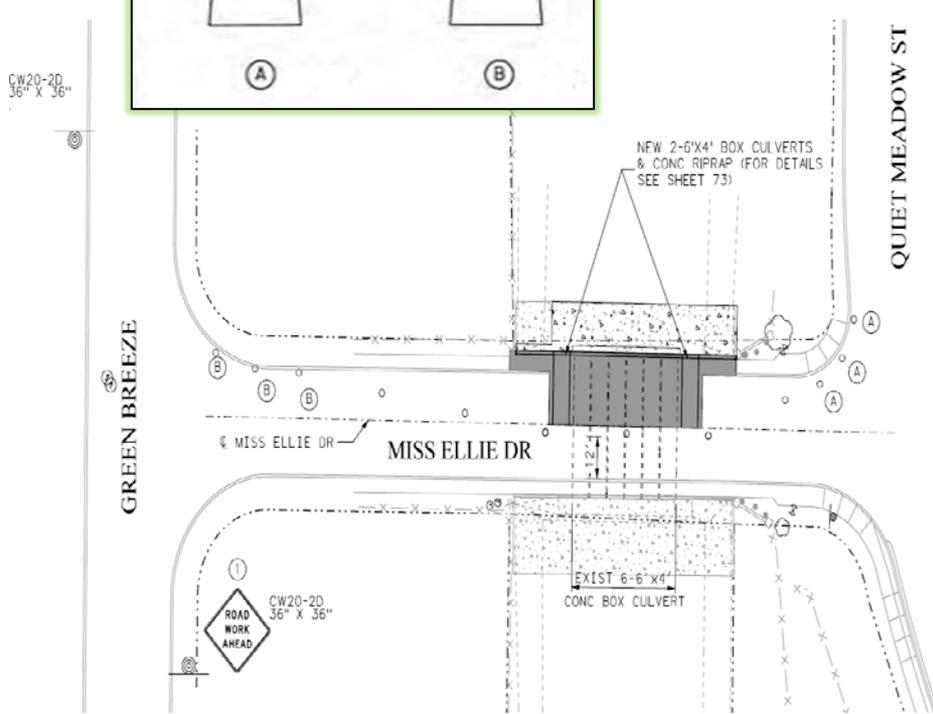
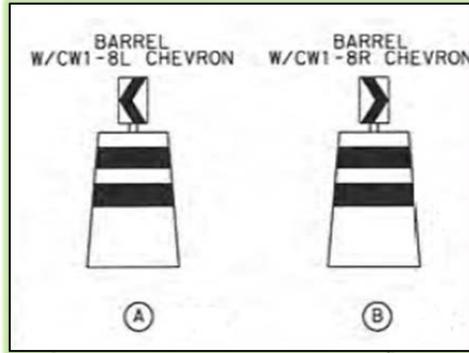
– Phase I

- Install southbound portion of culvert and reconstruct lane installing barricades for southbound traffic control through one lane (12-ft wide).
- Install northbound portion (similar traffic control measures).
- New water main and gas line installation.

– Phase II

- Mill and overlay Miss Ellie Dr. between Green Breeze and Quiet Meadow intersections.
- Open to full two way traffic.

Miss Ellie Drive





Schedule



STATUS

- Bexar County Commissioner's Court has formally approved the construction contract and associated inspections and material testing contracts
- Contractor is finalizing initial submittals and mobilization plan

SCHEDULE

- Contractor Mobilization – April 2016
- Anticipated construction time – 14 months
- Total Construction Cost – \$3.2 Million



General Information



Contact Info

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Website

www.bexarfloodcontrol.org

*This presentation will be posted on the website