

Project 24
BRITTANY ROAD
(Bordeaux Drive to Dauphine Avenue)



3923 Brittany Road (May 25, 2011)



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Statement of Conditions:

The existing drainage system is over 40 years old. The storm sewer system cannot adequately convey storms of moderate to high rainfall intensities. The project area is at the lower end of a $115\pm$ acre drainage service area. Flood flows that exceed the capacity of the storm sewer system utilize the street network as conveyance paths that lead to the project area. Street flooding occurred on Brittany Road and adjacent properties easterly of Bordeaux Drive during the July 23, 2011 storm event. Repetitive property and street flooding has been identified. Brittany Road is located within a depressional area that could flood as deep as $1.7'\pm$ before overflow relief occurs in a westerly direction along Bordeaux Drive.

Problem Identification:

Street, front yard and reported structure flooding.

Recommended Plan:

- Supplement the existing 42" storm sewer by constructing approximately 375' of 48" storm sewer to drain the low area on Brittany Road to the 48" storm sewer outlet on Bordeaux Road.
- Disconnect the lower inlets within the flood prone area from the existing storm sewer and reconnect them to the 48" storm sewer.
- Increase the inflow capacity by adding inlets.
- Construct downstream control structure with control orifice plate and street inlets that also serve as "bubblers" to maintain flood overflows along Bordeaux Drive.

Estimated Total Cost (w/o mitigation)	Construction Cost	Property Cost	Engineering Cost	B/C Ratio (with mitigation)	Optimum Protection
\$139,000	\$121,000	N/A	\$18,000	1.75	10-yr

