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July 8, 2021

Texas General Land Office  
P.O. Box 12873  
Austin, Texas 78711

Re: Justification of Need for Project Amendment  
City of Bay City – CDBG-DR Harvey Grant Application – Cottonwood Creek Diversion  
GLO 20-065-048-C142

Dear GLO Representative:

This letter is to provide justification for the need of the above referenced project for which Bay City, Texas (City) is receiving disaster recovery funding and some additional items that we are adding to the pr.

During Hurricane Harvey and other high intensity or extended rain events, flooding occurred along Cottonwood Creek north of and through downtown Bay City. During these events, debris quickly builds up on the bar screens entering the Cottonwood Creek Diversion Channel and prevents the flow of water into the diversion channel which causes higher than anticipated water levels in Cottonwood Creek north of and through downtown Bay City. Water covered the roads making them impassable and was slow to recede during these events. The flood waters also nearly entered homes and other buildings in this area. If the current procedures are continued, additional structural damage to the grating will occur, the efficiency of the staff will be reduced and the employees may be exposed to safety issues. The capacity of the diversion channel will be reduced due to the frequent debris build up during storm events and structural flooding of 1,099 homes, 170 commercial buildings, 31 public buildings could occur.

The addition of a bar screen cleaner will allow the flow of water to pass into the diversion channel and away from downtown Bay City at optimal capacity, and will allow the Department of Public Works to operate in a more efficient and safe manner. This will ensure that creek levels are kept at an acceptable level.

During detailed design the need for a trash box and access for a trash truck was determined to be needed. Therefore, we have added a concrete driveway with a foundation to provide a location for a collection box for debris and concrete driveway suitable for a trash truck to access the site and remove the debris bin.

During design of this project TxDOT started preliminary design of a sidewalk system to provide alternative modes of transportation. The path of this sidewalk goes right up to the diversion canal. With the addition of trash screen structure and equipment there are real concerns for the safety of the public utilizing the sidewalk and the equipment. As a solution to this added foot traffic near the site we are proposing site fencing to protect the public and the equipment. We are also proposing the addition of a sidewalk to provide a safe path around the site and over to US-60. With the addition of the sidewalk we will be providing a way for the public to safely maneuver around the site and away from the equipment.

The last addition during detailed design is for a SCADA tower. The City has a SCADA system but the location of this site will require a tower for communication to the City's SCADA system. In-order for the operators to be notified if the trash screen needs attention an approximate 30-foot tower is needed to allow for line of site communication to call out to the City's system and notify the operators.



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Please let me know if you need any additional information regarding this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read 'MB Breazeale', with a long horizontal flourish extending to the right.

Matthew B. Breazeale, PE  
Vice President

MBB/

cc: Mr. Barry Calhoun – Bay City  
Ms. Michele Goerke – GrantWorks, Inc.