



CITY COUNCIL AGENDA ITEM

To: Mayor Graham and City Council
From: Dennis Sullivan, Director of Engineering & Public Works
Walter Denton, City Administrator
Date: June 21, 2010
Subject: RESOLUTION – Southview Gardens Erosion Evaluation Study Replacement

List of committees that have reviewed: None.

Background: With the imminent collapse of 3 large culvert pipes in the subdivision, staff asked Hoelscher Engineering to look at changing the elevations of the bottom of the culvert pipes along the main drainage path in the subdivision to reverse the “down-cutting” of the numerous drainage channels. Reversing the down-cutting could save numerous backyards from future degradation, but in that reversal consideration must be made as to the potential of area flooding in the process. With Hoelscher already working on the repair of the 3 culvert pipes, we need some additional fill in data to make a determination of what can be done to improve the overall situation. .

Legal Considerations, if any: None beyond that for obtaining consulting services.

Budget Impact: Funding for this design will come from Proposition S design funds for other projects as funding for this design was not specifically contained in the FY11 budget. Design is unfortunately a priority now due to the need to consider down-cutting reversal in the in other designs for culvert replacement that are ongoing.

Staff recommendation: Staff recommends execution of the RESOLUTION for an agreement with Hoelscher in an amount of \$23,800 to conduct (1) field surveying – channel elevations at 100 foot increments; cross-sections of the channel to top of bank elevations at 15 locations (approximately 500 foot intervals); photographic documentation of general characteristics of the channel, locations of severe erosion and/or down-cutting, and other stream anomalies, (2) mapping of the field survey data - profiling of the channel, including the culverts located in the subject stream reach, plan views showing the general alignment and sinuosity of the channel, and plots of each of the channel cross-section, (3) written summary of information obtained from the mapping and field survey - Identification of areas with severe concentrated down-cutting, identification of areas of bank failure, identification of areas of localized scour and erosion, and Identification of any anomalies which may be impacting the stability of the channel, and (4) a letter report providing the summary of the items listed above as well as general recommendations - schematic drawings to alleviate the stability issues identified during the field survey, opinions regarding the overall stability of the stream and likely causes of the identified stability issues, and recommendations for additional studies or data collection, if such are needed, to further define a plausible solution to the identified stability issues