

**FLOOD ZONE 3 ADVISORY BOARD MEETING**  
**DECEMBER 7, 2006**

**STAFF REPORT**

The following is a staff report for the items listed on the Agenda for Flood Zone #3 Advisory Board (AB) meeting on December 7, 2006:

**Item 1. Approval of Minutes: May 16, 2006**

**Action By Board:** Advisory Board members will review meeting minutes from the May 16, 2006 meeting, make corrections and approve the minutes as corrected.

**Item 2. Open time for items not on the agenda**

Comments will be heard for items not on the agenda.

**Item 3. Discuss Arroyo Corte Madera del Presidio**

Stetson Engineers is under contract with the City of Mill Valley to perform an Appraisal-Level Flood Study for Arroyo Corte Madera del Presidio.

Stetson will develop a one-dimensional steady-state hydraulic model, using the Army Corps of Engineers' hydraulic model (HEC-RAS), to simulate the water surface profile along the creek during the design storm event and evaluate alternative flood protection measures. The hydraulic model will be developed for Arroyo Corte Madera del Presidio from Richardson Bay upstream to Gardner Street, which is about 1,000 ft upstream of the Old Mill Creek confluence with the Arroyo Corte Madera del Presidio.

An agreement between Stetson and Flood Control Zone 3 for \$25,000 was executed to provide survey services in support of the City's agreement discussed above.

The City modified its scope of services to include:

1. Analyze the Willow Street and Valley Circle Bridges for clearance and the Locust Street and Egger Plaza Bridges for capacity
2. Analyze the Sycamore Park Pump Station
3. Analyze the use of cisterns
4. Analyze the diversion of storm flows to Terwilliger Marsh for detention/retention
5. Take into account the effect of additional development in the general area

The report will be completed before the end of February.

**Item 4. Capital Improvement Plan /Active Projects**

***A. Tam Valley Drainage Mapping***

**Project Description:** Hydro-flush and Vactor-clean all the storm drain pipes in Tam Valley, video inspect, and survey the location of the facilities, convert field data into a GIS database.

**Status: Complete:** GeoData Analytics LLC was contracted to perform the GIS database work. This Project was completed at the end of June. Staff is investigated how to implement a GIS database throughout the zone.

**B. Pump Station Control Panel Replacement**

**Project Description:** Replace existing control panels and switch gears at Shoreline, Cardinal Road, and Crest Marin Pump Stations.

**Status: In-Progress:** Tresch Electrical Co., Inc. Novato, CA was awarded the construction contract. The total cost to date is \$689,633; Zone 3 share is \$568,788. Gannett Fleming, Mill Valley was awarded a construction management contract for this project. All work on this contract is expected to be complete next week.

**C. Bothin Marsh Coyote Creek Restoration and Flood Control Project**

**Project Description:** This project consists of the reconnection/reconfiguration of the channel and tidal marsh to increase flow velocities and natural channel scouring to minimize dredging.

**Status: In-Progress** PWA, Inc was awarded this contract at at the June 20<sup>th</sup> Board of Supervisors meeting. PWA has conducted studies to define existing to site conditions consisting of hydrodynamics, geomorphology, and biological assessments. Four conceptual project alternatives have been identified.

**D. Capital Improvement Program**

**Project Description:** The Program includes engineering planning and design and construction management services for Drainage Improvements in the Marin Avenue Drainage Improvements, Crest Marin Creek Drainage Improvement Project, Ross Avenue Drainage Improvements, Seminary Drive Pump Station, and Richardson Bay Tidal Flooding Studies.

**Status: In-Progress.** Winzler & Kelly Consultant Engineers was awarded the contract requesting at the Board of Supervisors (BOS) award the contract at the June 20<sup>th</sup> BOS meeting.

1. Marin Avenue Drainage Improvements
  - i. Design Cost: \$60,000
  - ii. Construction Cost: \$ 200,000
  - iii. Construction Timeframe: Spring/Summer 2007
2. Seminary Drive Pump Station
  - i. Design Cost: \$ 75,000
  - ii. Construction Cost: \$1,250,000
  - iii. Construction Timeframe: Summer/Fall 2007
3. Crest Marin Creek Drainage (Ross Avenue) Improvement Project Study
  - i. Study Cost: \$50,000
  - ii. Draft Study Completion Date: February 2006
4. Richardson Bay Tidal Flooding Studies
  - i. Study Cost: \$60,000
  - ii. Draft Study Completion Date: February 2006

**E. Coyote Creek Levee Seepage Project**

**Project Description:** This project will investigate and develop solutions for tidal seepage for houses Starling Roads in the vicinity of Flamingo Road.

**Marin County Flood Control and Water Conservation District**

**Status: Complete.** This Project was removed from the Scope of Services for the Capital Improvement Program. Kleinfelder, Inc. performed testing and geotechnical analysis of the levee. Kleinfelder, Inc. recommended that an abandoned CMP be filled with concrete a slurry cutoff wall placed at this location. This work was completed by FW Forde General Contractors, Richmond, CA.

**F. SCADA System**

**Project Description:** Install a Supervisory Control and Data Acquisition (SCADA) system to assist in the operation of four pump stations in Zone 3. The system will monitor and provide remote operation of all of the pump station equipment.

**Status: In-Progress:** Preliminary system elements have been identified. A RFP for design is scheduled to be released in the Spring of 2007.

**Item 5. Update on Maintenance Activities**

The following maintenance work was performed during the summer, fall and early winter:

1. Sediment was removed from eight sites to increase flood flow capacity. The material is temporarily stored at the property on Tennessee Valley Road know as the "Triangle".
2. All catch basins in Tamalpais Valley were inspected and vactored as needed.
3. Routine maintenance has been performed at each pump station.
4. Sand & sand bags have been position at the Crest-Marin Pump Station.
5. Portions of Arroyo Corte Madera del Presidio, Crest Marin Creek, Coyote Creek, and Reed Creek were cleared by the District Contractors.

**Item 6. Zone 3 Master Plan Update**

Staff will discuss update the Master Plan and a list of priority project.

**Item 7. Schedule Next Meeting**

**Action By Board:** Advisory Board members will set a date for the next meeting.