

FLOOD ZONE 9 ADVISORY BOARD MEETING
MAY 20, 2015
SAN ANSELMO TOWN HALL
STAFF REPORT

Item 1. Approval of Meeting Minutes for April 16, 2015

Action by Board: Advisory Board members will review meeting minutes from the April 16, 2015 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 (limited to three minutes per speaker).

Item 3. Ross Valley Flood Protection and Watershed Program Updates

a) Flow Reduction Study Presentation

Stetson Engineers is currently performing hydrologic and hydraulic modeling of the three program alternatives described in CH2M-HILL's Deliverable #2. The modeling was discussed at the Technical Work Group (TWG) meeting on May15, 2015. For the program alternative(s) which achieve all target flow reductions throughout the watershed, CH2M-HILL will prepare conceptual plans and cost estimates for the new project elements within the program(s). The results will be summarized in a draft report and presented to the Advisory Board on June 16, 2015. The draft report will be posted on the Ross Valley Watershed website for public comment from June 9-15, 2015.

Staff had contacted the owners of the new private property sites under consideration previously to describe the study. Staff attempted to contact the owners again to ask about their willingness to have a detention basin on the property, but contact was not made with all of the owners. Generally, the owners that were contacted would not comment on their willingness to have a detention basin on the property until more information is available.

This study will be used as the starting point for the alternatives analysis required in the programmatic environmental impact report.

The schedule for presentations at meetings and public comment periods is shown below.

Deliverable	TWG Presentation Date	AB Presentation Date	Public Comment Dates
Selection criteria, weighting factors, and list of preliminary Flow Reduction Elements being considered.	February 26, 2015	March 17, 2015	March 13-27, 2015
Results of applying preliminary fatal flaw criteria to elements; group remaining elements into preliminary Program alternatives.	March 26, 2015	April 16, 2015	April 13-27, 2015

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Analyze & apply criteria to Program alternatives, and rank them.	May 15, 2015	No presentation	No public comments
Draft Report with program conceptual plans and cost estimates.	No presentation	June 16, 2015	June 9-15, 2015

b) Flood Emergency Response Planning Grant Update

In February 2014, District staff teamed with the Sonoma Water Agency, City of Petaluma, and Napa Flood Control to apply for funding offered through the Department of Water Resources (DWR) Flood Emergency Response Planning (FERP) grant program. In early May 2015, DWR listed the District as a tentative recipient of requested grant funding for the following items:

Flood Safety Plans and NIMS training	\$25,000
Upgrade Existing Weather Gages to ALERT 2	\$85,000
New ALERT 2 Gages	\$47,000
Updated Creek Rating Curves	\$24,000
Administration Costs	\$47,282

TOTAL TENTATIVE GRANT AWARD: \$228,282

This total tentative grant award amount of \$228,202 is to directly benefit watersheds within Marin County including the Ross Valley. After the grant award is deemed final, future updates will be provided to the Flood Zone 9 Advisory Board with recommendations for where to install new creek gages, upgrade existing creek gage(s), and/or update creek rating curves within the Ross Valley through use of any secured FERP grant funding.

c) Federal Emergency Management Agency Community Rating System for Unincorporated County Areas

The County of Marin is in the final stages of bringing unincorporated Marin County into the Community Rating System (CRS), a program of the Federal Emergency Management Agency (FEMA). The CRS program is an incentive based program that provides a reduction in flood insurance rates directly to those paying flood insurance. The level of discount depends on the number of programs being implemented by the County above the basic FEMA floodplain management requirements. The County completed a successful audit by FEMA on April 29 and 30th which is required for entrance into the program. FEMA comments will be addressed over the next five or six months and a CRS score is anticipated in October 2015. According to FEMA staff, rate adjustments would take effect as insurance policies come up for renewal after May 2016. Current estimates project CRS discounts of 5 to 10%. The Town of San Anselmo has scheduled their FEMA audit this month and Town of Ross is already within the CRS and receiving flood insurance rate discounts.

d) Strategic Communications Plan Implementation Update

At your last meeting, Circlepoint provided an overview of the Strategic Communications Plan for the Ross Valley Flood Protection and Watershed Program, their key findings, and recommendations for next steps. Phases I-III were presented for engaging the public and soliciting input on the Program and proposed projects. District staff (0.5 FTE) will coordinate and carry out communications tasks

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and strategies outlined in the plan, freeing up time for District engineers to focus work in their area of expertise. Below are anticipated budget impacts for FY 14/15 and 15/16 for implementation of the Strategic Communications Plan by Phase.

Phase I includes revising and developing public outreach tools such as reviewing the current website and making recommendations for improvement, finalizing Program “look-and-feel,” updating the print materials such as the fact sheets, FAQs, comment cards, flyers and other templates, producing a 2013/14 Annual Report, develop an e-newsletter calendar and template, and creating speaker’s bureau materials and master PowerPoint presentation and talking points. This Phase is currently in process and is provided for in the current contract with CirclePoint with no new budget impact to the District.

Phase I Budget Impact FY 14/15: None.

Phase II begins the implementation of ongoing public outreach activities and is anticipated to generally take place between August 2015 and March 2016, though with some overlap with partnership events and activities this summer. This Phase also includes implementation of quarterly e-newsletters beginning in October 2015, partnering with local watershed events, hosting fall creek cleanups, expanding our speaking engagements with stakeholder groups, and hosting partnership events such as California Flood Preparedness Week. This phase also includes the restructuring and rebuilding of the Program website in partnership with the county’s Watershed Program. Staff time budgeted is the same as FY14/15.

Phase II Budget Impact FY 15/16: \$178,000 comprised of:

Website Design Consultant-\$50,000

Staff: \$78,000

On-Call Consultant Support: \$50,000

Phase III includes ongoing use of outreach tools such as e-newsletters, community meetings, partnership events, website, and other avenues to communicate with the public. It is envisioned that this phase will take place from April 2016 forward. As the Program progresses into visible changes in the public areas, more robust and consistent public communication may be required and expected. A re-evaluation of staffing levels and support may be necessary in early 2016.

Phase III Budget Impact FY 15/16: No additional impacts anticipated at this time, pending re-evaluation of needs in early 2016.

Action by Board: Recommend approval of Phases I, II, and III scope and budget estimates.

Item 4. Project Status Updates (Information Item):

The Current Cost Estimate covering environmental and feasibility studies, design and construction of 10-year Work Plan Baseline Measures is included as **Attachment A** to this Staff Report. A summary of project descriptions, cost estimates, project construction start dates, and grant funding sources is included as **Attachment B** to this Staff Report.

a) Phoenix Lake Integrated Regional Water Management (IRWM) Retrofit Project

URS has completed the sampling and testing of the soil samples from the dam and the sediment samples from the lake. A draft Geotechnical Data Report has been reviewed by the District,

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MMWD, and CH2M-HILL. URS is currently making the revisions and then the report will be submitted to CA Division of Safety of Dams (DSOD) for review. The earthquake ground motion analysis technical memo for the dam site is still being reviewed by DSOD. URS has started developing existing material properties for future seepage and stability analysis.

Stetson Engineers is currently preparing the Hydrologic Study of Long-Term Yield of Phoenix Lake and the Phoenix Lake Coordinated Operations Plan. The Ross Creek In-Stream Flow Study and the Water Quality Baseline Study are both in draft form and are being reviewed. Results of these studies will be available on www.rossvalleywatersheds.org later this year.

b) Memorial Park Dual-Use Facility

The Town of San Anselmo issued a Request for Qualifications (RFQs) for Environmental Documentation and Permitting Services. Four Statements of Qualifications (SOQs) were received from consultants and evaluated. All four firms were invited for interviews. Interviews are tentatively scheduled for May 20, 2015.

The Town issued a RFQ for Engineering and Design Services on April 14, 2015. A site tour with interested consultants was held on April 28, 2015 and was well attended. The SOQs from consultants was due on May 12, 2015.

c) Lefty Gomez Field Dual-Use Facility

URS has completed the installation of groundwater monitoring wells and the collection of soil samples. Monitoring of groundwater levels will occur between October 2014 and May 2015.

URS has completed laboratory analyses of the soil samples, submitted final boring logs, sediment loading analyses, a geotechnical report, a conceptual design plan, and a construction cost estimate.

Staff will present final geotechnical findings and sediment loading calculations performed by URS to the Advisory Board at a future meeting. Staff continues to look for appropriate grant opportunities for this project.

d) Loma Alta Dual-Use Facility

Staff is currently evaluating alternate locations for the Loma Alta Dual-Use Facility. Staff has held discussions with Marin County Parks & Open Space District and with the Ross Valley School District on the alternate locations. Staff described the two alternate locations and received feedback from the neighbors on the alternate locations. Staff is preparing conceptual cost estimates for each alternate location and will prepare a technical memo which identifies the preferred location.

e) Bridge Replacements in Town of San Anselmo

Building Bridge 2

The Town of San Anselmo is waiting to find out the amount of funding that will be available under next year's FEMA Pre-Disaster Mitigation Grant Program (PDM) before making a decision to apply for a grant under this program for Building Bridge 2.

Nokomis, Madrone and Sycamore/Center Boulevard Bridge Replacements

The project design team has developed horizontal layouts of alternatives for the Madrone and

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Nokomis bridges. Hydraulic analyses are being performed by Stetson Engineers and will be used to perform a design iteration process that will continue through May. The Preliminary Environmental Study (PES) will be provided to Caltrans which will allow a Caltrans field review meeting to be scheduled. The current schedule includes completing environmental clearance in late 2016 to early 2017 and releasing Plans and Specifications in late 2017 to early 2018. A revised schedule will be submitted to the Towns in the next couple of weeks.

The Center Boulevard/Sycamore Avenue Bridge Replacement project has only been authorized by Caltrans to undergo a Feasibility Study to date. The project design team has collected local data at the site locations and is developing possible intersection configurations that will be presented to the Town in June. The Town has stated that any project configuration that substantially relocates or realigns the Bridge will require the acquisition and demolition of a neighboring property, 800 San Anselmo Avenue. This property is currently listed for sale and for this reason the Town of San Anselmo has requested that the District act to acquire this property as an opportunity purchase. The Town anticipates that the property would be purchased from the District once they have completed the project design, environmental analysis and received project funding and approval from Caltrans and FHWA. The Board of Supervisors has authorized the District to submit a letter of intent to the seller and order an appraisal of the property prior to potentially entering into the negotiation process with the seller. If negotiations are successful then all necessary agreements will be drafted and staff will return to the Board of Supervisors for final approval.

f) Winship Avenue Bridge Replacement in Town of Ross

The Town of Ross consultant, Quincy Engineering, is performing Preliminary Engineering for the project and has set the bridge profile and abutment locations. The design team is preparing to submit the PES package shortly after which a Caltrans field review meeting can be scheduled. The current schedule includes completing environmental clearance in late 2016 to early 2017 and releasing Plans and Specifications the following year.

g) Azalea Avenue Bridge Replacement in Town of Fairfax

The Town of Fairfax is still awaiting allocation of funding for the project by Caltrans and is waiting to find out if the project is included in the next funding cycle which is expected to be released in May or June.

h) Corte Madera Creek Units 3 and 4 Project

U.S. Army Corps of Engineers (USACE) Project Design Team (PDT) has begun work to complete the required work elements defined for the Alternatives Milestone that is due in September 2015. To reach this milestone, the PDT will agree on the proposed way forward on continuing analysis and evaluation on a focused array of alternatives. To date, the PDT has evaluated measures that may be considered to achieve the project goals and decided which will be carried forward in developing the initial array of alternatives. The PDT has also initiated hydrologic and hydraulic analyses to determine water surface profiles for a suite of different return period flood events. These will be used for floodplain mapping and flood damage economic analysis for the "future without project conditions" in the base year, which is defined as the year of completion of the Units 3 and 4 projects. The base year was set to be 2022 at which time it is assumed that Phoenix Lake detention basin will be operational and hydrologic conditions will be based on this assumption. Staff is working directly with USACE to determine which tasks will be performed as in-kind contributions and these may include hydrologic and hydraulic analyses, environmental review, land surveying

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and utility location.

Item 5. Lower Corte Madera Creek Improvement Project

Dredging of Lower Corte Madera Creek will be an integral part of the Lower Corte Madera Creek Project. As part of another dredging project in Lower Gallinas Creek, Staff is planning on performing a study to develop a new dredging approach called the “geomorphic dredge”. The study developed and analyzed the anticipated tidal channel dimensions that could be expected to be in equilibrium with the available tidal prism and evaluated if these dimensions meet project requirements. Permitting has become a difficult and expensive part of dredging projects and the Regional Water Quality Control Board has expressed support for the proposed geomorphic dredge approach as the analysis they would like to see utilized for similar projects. We recommend that a similar study to develop geomorphic dredge sections along Corte Madera Creek could be performed in tandem with the Las Gallinas study and that will result in reduced cost due to economy of scale. A proposed cost in the range of \$15,000 to \$20,000 would be sufficient to perform the analysis and write the draft and final reports.

District staff has worked closely with City of Larkspur Department of Public Works (DPW) Director Mary Grace Houlihan to finalize a Memorandum of Understanding (MOU) between the two agencies. This MOU has been provided as an attachment to this Staff Report and the MOU sets forth preliminary terms for the development of the Lower Corte Madera Creek Improvement Project. In addition, this MOU formalizes the mutual cooperation between the Board of Supervisors of the Flood Control District and the Larkspur City Council regarding the development of potential projects to make improvements to Lower Corte Madera Creek.

Action by Board: Recommend approval of the Memorandum of Understanding with the City of Larkspur.

Item 6. Annual Budgets – FY 2015-16

Following feedback provided during a third meeting of the Ad-Hoc Budget Subcommittee on Tuesday May 12, 2015, Staff will present the annual budgets. Copies are provided in the meeting package.

After the budget cover sheet, page 2 of the Flood Control Zone 9 budget lists budget overview information showing expenses and revenues for the combined 10-Year Work Plan Baseline Measure Projects, the Program, and Operations and Maintenance during Fiscal Years 2014/15 and 2015/16. The revenue for FY 2015/16 assumes a 3% increase in the flood fee amount in accordance with the limit set by the fee ballot language.

Page 3 of the budget lists expenses and revenues for each of the twelve 10-Year Work Plan Baseline Measure Projects for which work is anticipated during FY 2015/16. Flood Control Zone 9A budget is shown as the U.S. Army Corps of Engineers Corte Madera Creek Unit 3 and 4 Project.

Page 4 of the budget includes a detailed breakdown of Program budget with a graph of past and anticipated expenses, revenue, and reserves from the start of FY 2011/12 to the end of FY 2021/22. Future Program revenue assumes a 3% increase in the flood fee amounts each year between FY 2015/16 through FY 2021/22.

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Pages 5 through 14 include further budget information for each of the individual 10-Year Work Plan Baseline Measure Projects for which work is anticipated during FY 2015/16, including a graph of past and anticipated expenses, revenue, and reserves from the start of FY 2011/12 to the end of FY 2021/22.

Assumptions used to develop the budget and budget graphs are listed within the FY 2015/16 budget packet as Exhibit A.

Action by Board: Recommend approval of the FY 2014/15 and 2015/16 budget.

Item 7. Adjourn, Schedule Next Meeting For June 16, 2015

The next regularly scheduled Flood Zone 9 Advisory Board meeting is set for June 16th, 2015. Confirm if there are any Advisory Board member conflicts with rescheduling a future September 15 meeting to September 16.

**ROSS VALLEY FLOOD PROTECTION AND WATERSHED PROGRAM
COSTS AND REVENUES ESTIMATES
Attachment A**

								Last Updated: May 14, 2015
FLOOD CONTROL MEASURES - 10-Year Work Plan*	Implementing Agency	Current Cost Estimate**	Grants Secured***	Grants In Pursuit****	Current Cost Estimates minus Secured Grants	70% Outside Funding Target	% of Funding Target	Current Work Program
BASELINE MEASURES 10 YWP								
Lower Corte Madera Creek Improvement Project (Dredge) - (Includes Past Grant Application Costs)	FC District	\$6,220,265	\$0	PENDING	\$6,220,265	\$4,354,186	0%	\$6,220,265
Loma Alta	FC District	\$1,900,000	\$0		\$1,900,000	\$1,330,000	0%	\$1,900,000
Lefty Gomez	FC District	\$6,400,000	\$0		\$6,400,000	\$4,480,000	0%	\$6,400,000
Memorial Park (Prop 1E Scope+Past Grant Application Costs)	San Anselmo	\$17,633,683	\$8,720,500		\$8,913,183	\$12,343,578	71%	\$8,913,183
Phoenix Lake (Prop 1E Scope+Past Grant Application Costs)	FC District	\$19,740,150	\$7,661,000		\$12,079,150	\$13,818,105	55%	\$12,079,150
Azalea Ave - FX [135]	Fairfax	\$2,326,520		\$2,326,520		\$1,628,564	0%	\$2,326,520
Nokomis Ave SA [083]	San Anselmo	\$2,493,917	\$2,409,042	\$64,500	\$84,875	\$1,745,742	138%	\$84,875
Madrone Ave SA [077]	San Anselmo	\$2,487,917	\$2,127,413	\$57,102	\$360,504	\$1,741,542	122%	\$360,504
Sycamore Ave (Center Blvd) SA [063]	San Anselmo	\$5,930,375	\$5,131,752	\$84,104	\$798,623	\$4,151,263	124%	\$798,623
Winship Ave RS [005]	Ross	\$2,413,075	\$2,329,340		\$83,735	\$1,689,153	138%	\$83,735
Sir Francis Drake Blvd Bridge RS [021]	Ross	\$6,125,000	\$0	PENDING	\$6,125,000	\$4,287,500	0%	\$6,125,000
Bldg Bridge #2 [046] (Includes Past Grant Application Costs)	San Anselmo	\$3,425,200	\$0	GRANT READY	\$3,425,200	\$2,397,640	0%	\$3,425,200
Corte Madera Creek Units 3 and 4 Project (Assumptions)								
- Planning and Design (Includes Past Grant Application Costs)	FC District/USACE	\$2,810,265	\$400,000	\$2,400,000	\$2,410,265	\$1,967,186	20%	\$2,410,265
- Construction	FC District/USACE	\$6,560,000	\$0	\$6,560,000	\$6,560,000	\$4,592,000	0%	\$6,560,000
- Real Estate, easements and disposal areas	FC District	\$4,500,000	\$0	PENDING	\$4,500,000	\$3,150,000	0%	\$4,500,000
TOTAL - Baseline Measures		\$90,966,368	\$28,779,047	\$11,492,225	\$62,187,321	\$63,676,457		\$62,187,321
% of TOTAL Current Cost Estimates		100%	32%	13%	68%	70%	45%	68%
ADDITIONAL MEASURES 10 YWP								
Merwin Avenue Bridge Replacement [124]*	TBD	\$989,000	\$0	\$741,750	\$989,000	100%	0%	\$0
Channel Modifications at Merwin Bridge Area[121][122][123][125][126][127][128]	TBD	\$957,000	\$0		\$957,000	100%	0%	\$0
Install new wing wall [142]	TBD	\$126,000	\$0		\$126,000	100%	0%	\$0
Install new wing wall [143]	TBD	\$136,000	\$0		\$136,000	100%	0%	\$0
Install Floodwall/Berm as wing wall extension [144]	TBD	\$70,000	\$0		\$70,000	100%	0%	\$0
Supplement: Floodwall <3.6' RS662-700 (35 ft long)	TBD	\$50,000	\$0		\$50,000	100%	0%	\$0
Supplement:Floodwall <3.3' RS662-791 (129 ft long)	TBD	\$655,000	\$0		\$655,000	100%	0%	\$0
Supplement:Floodwall <2.0' RS956-1283 (327 ft long)	TBD	\$150,000	\$0		\$150,000	100%	0%	\$0
Taylor Avenue Bridge Replacement [203]	TBD	\$991,000	\$0	\$991,000	\$991,000	100%	0%	\$0
Replace Existing Retaining Wall [209]	TBD	\$216,000	\$0		\$216,000	100%	0%	\$0
Retrofit/Replace Existing Retaining Wall [213]	TBD	\$77,000	\$0		\$77,000	100%	0%	\$0
Construct new retaining wall [216]	TBD	\$99,000	\$0		\$99,000	100%	0%	\$0
Supplement: Floodwall<1.0' RB RS2762-2796 (34 ft long)	TBD	\$10,000	\$0		\$10,000	100%	0%	\$0
Construct new retaining wall as wing wall [219]	TBD	\$382,000	\$0		\$382,000	100%	0%	\$0
Construct new retaining wall [220]	TBD	\$387,000	\$0		\$387,000	100%	0%	\$0
Broadmoor Avenue Bridge Replacement [224]	TBD	\$1,354,000	\$0	\$0	\$1,354,000	100%	0%	\$0
Channel Modifications RS3400-3442 [225][227][228]	TBD	\$249,000	\$0		\$249,000	100%	0%	\$0
Floodwall <2.0' LB RS3646 +/- 80' (160 ft long)	TBD	\$65,000	\$0		\$65,000	100%	0%	\$0
Floodwall <2.0' LB RS4085 +/- 120' (240 ft long)	TBD	\$90,000	\$0		\$90,000	100%	0%	\$0
All Flood Control Measures (22) from RS437000-45970	TBD	\$9,214,000	\$0		\$9,214,000	100%	0%	\$0
Floodwall <1.0' RB RS43397-43512 (115 ft long)	TBD	\$15,000	\$0		\$15,000	100%	0%	\$0
Supplement:Floodwall <3.0' RB RS43716-43773 (57 ft long)	TBD	\$50,000	\$0		\$50,000	100%	0%	\$0
Supplement:Floodwall <32.5' RB RS43828-43838 (10 ft long)	TBD	\$5,000	\$0		\$5,000	100%	0%	\$0
ADDED MEASURES - SUPPLEMENT TO 10YWP								
SUBTOTAL - Additional Measures								
		\$16,337,000	\$0	\$1,732,750	\$16,337,000			\$0
PROGRAM MANAGEMENT and PUBLIC OUTREACH								
Staff (July 1st, 2011 to June 30th 2014)	NA	\$1,199,708			\$1,199,708			\$1,199,708
Staff (July 1st, 2014 to June 30, 2022) = 7 Years @ \$388,089	NA	\$2,877,603			\$2,877,603			\$2,877,603
Annual Updates to Storm Drainage Fee @ \$50,000 every 3 Years	NA	\$166,667			\$166,667			\$166,667
Flow Reduction Study (for Program)	NA	\$162,000			\$162,000			\$162,000
Hydraulic & Hydrologic Engineering, Future Grant Application Prep (2 Years \$120,000) for 8 Years (July 1st 2011 through June 30th 2019)	NA	\$480,000			\$480,000			\$480,000
Outreach Services + Website Updates (FY 14/15 & 15/16)	NA	\$218,968			\$218,968			\$218,968
SUBTOTAL		\$5,104,946			\$3,905,238			\$5,104,946
GRAND TOTAL *****		\$112,408,314	\$28,779,047	\$13,224,975	\$82,429,559			\$67,292,267
Deficit/Surplus with an annual 3% rise in fee amount					-\$32,625,208			-\$17,487,916
Expected Revenue - With No Rise in Fee Amounts:		\$43,146,194						
Expected Revenue - With 3% Rise in Fee Amounts:		\$49,804,351						

NOTES:
* Pending review and certification of environmental documents and alternatives to the listed project.
** Cost Estimates include grant application costs spent to date for Phoenix Lake IRWM Retrofit and Memorial Park Dual-Use Detention Basin. For Operations and Maintenance costs
*** Executed grant agreements, E76, or notified the grant application was selected.
**** In grant application process, or working with ACOE on obtaining federal funding.
***** GRAND TOTAL does not include annual zone operation and maintenance costs such as that needed for: website maintenance, precipitation and stream gauge maintenance, ALERT System, Creek Maintenance Program, Routine Maintenance Program, Maintenance of Unit 1-3, Utilities, Maintenance & Repair Services, Land & Buildings, Rent & Operating Leases, Professional Development, Travel, Dues, Office Supplies, Maintenance & Repair Supplies & Equipment, Land & Building Supplies, and Miscellaneous Supplies.

ATTACHMENT B

BASELINE MEASURE	DESCRIPTION	GRANT AMOUNT
<p><i>Phoenix Lake IRWM Retrofit Project</i> Implementing Agency: Marin County Flood Control and Water Conservation District Cost Estimate: \$19,740,150 (Source – DWR Prop 1E Grant Agreement 5/8/2013 + Grant Application Expenses To Date) Projected Construction Start Date: Summer 2019</p>	<p>The proposed Phoenix Lake Integrated Regional Water Management (IRWM) Retrofit Project involves modifying the Phoenix Lake reservoir, dam, spillway and outlet works to increase water storage capacity in order to reduce or prevent flooding within the Ross Valley watershed during large storms.</p>	<p align="center">\$7,661,000</p>
<p><i>Memorial Park Dual-Use Detention Project</i> Implementing Agency: Town of San Anselmo Cost Estimate: \$17,633,683 (Source – DWR Prop 1E Grant Application 9/20/2013 + Grant Application Expenses To Date) Projected Construction Start Date: 2018</p>	<p>The proposed Memorial Park Dual-Use Facility will provide a new detention basin and restoration and improvement of the park recreational facilities.</p>	<p align="center">\$8,720,500</p>
<p><i>Lefty Gomez Field Dual-Use Facility</i> Implementing Agency: Marin County Flood Control and Water Conservation District Cost Estimate: \$6,400,000 (Source – Ross Valley Capital Improvement Plan, May 2011) Projected Construction Start Date: Approximately 4 years after secured funding (~2 years environmental review, ~ 2 years engineering design)</p>	<p>The proposed Lefty Gomez Field Dual-Use Facility could include conversion of the existing Lefty Gomez Field at White Hill Middle School to a dual-use facility allowing the field to be used to detain high creek flows during infrequent, large flood events. The proposed project also could include recreation improvements to the existing field at the site.</p>	<p align="center">NOT GRANT READY</p>
<p><i>Loma Alta Detention Basin Project</i> Implementing Agency: Marin County Flood Control and Water Conservation District Cost Estimate: \$1,900,000 (Source – Ross Valley Capital Improvement Plan, May 2011) Projected Construction Start Date: Approximately 4 years after secured funding (~2 years environmental review, ~ 2 years engineering design)</p>	<p>The proposed Loma Alta Dual-Use Facility could convert a 3-acre portion of the existing Loma Alta open space area into a dual-use facility that will temporarily detain high creek flows during infrequent, large flood events. The project could also include improvements to the existing trail network at the site.</p>	<p align="center">NOT GRANT READY</p>
<p><i>Building Bridge 2</i> Implementing Agency: Town of San Anselmo Cost Estimate: \$3,425,200 (Source – Grant Application Proposal for FEMA Hazard Mitigation Grant Program 6/12/14 + Grant Application Expenses To Date) Projected Construction Start Date: ~3 years after secured funding</p>	<p>This project proposes the removal of Building Bridge #2 and a commercial building spanning the San Anselmo Creek in downtown San Anselmo.</p>	<p align="center">GRANT READY</p>
<p><i>Nokomis Avenue Bridge</i> Implementing Agency: Town of San Anselmo Cost Estimate: \$2,493,917 (Source –Town of San Anselmo) Projected Construction Start Date: 2017</p>	<p>This project proposes the removal and replacement of the Nokomis Avenue Bridge over San Anselmo Creek in the Town of San Anselmo.</p>	<p align="center">\$2,409,042</p>
<p><i>Madrone Avenue Bridge</i> Implementing Agency: Town of San Anselmo Cost Estimate: \$2,487,917 (Source –Town of San Anselmo) Projected Construction Start Date: 2017</p>	<p>This project proposes the removal and replacement of the Madrone Avenue Bridge over San Anselmo Creek in the Town of San Anselmo.</p>	<p align="center">\$2,127,413</p>
<p><i>Sycamore Avenue/Center Boulevard</i> Implementing Agency: Town of San Anselmo Cost Estimate: \$5,930,375 (Source –Town of San Anselmo) Projected Construction Start Date: ~3 years after project and grant funding approval</p>	<p>This project proposes the removal of the bridge at Sycamore Avenue and replacement with a new bridge at Center Boulevard over San Anselmo Creek in the Town of San Anselmo.</p>	<p align="center">\$5,131,752</p>
<p><i>Winship Avenue Bridge</i> Implementing Agency: Town of Ross Cost Estimate: \$2,413,075 (Source – Town of Ross) Projected Construction Start Date: 2017</p>	<p>This project proposes the removal and replacement of the Winship Avenue Bridge over San Anselmo Creek in the Town of Ross.</p>	<p align="center">\$2,329,340</p>
<p><i>Azalea Avenue Bridge</i> Implementing Agency: Town of Fairfax Cost Estimate: \$2,326,520 (Source – Town of Fairfax) Projected Construction Start Date: ~3 years after receipt of grant</p>	<p>This project proposes the removal and replacement of the Azalea Avenue Bridge over Fairfax Creek in the Town of Fairfax.</p>	<p align="center">PENDING</p>
<p><i>Corte Madera Creek Units 3 and 4 Project</i> Implementing Agency: Marin County Flood Control and Water Conservation District Cost Estimate – Environmental, Permitting, Design & Construction: \$9,370,265 (Source – USACE + Grant Application Costs To Date), Right-of-way Acquisition: \$4,500,000 (Source: District) Projected Construction Start Date: Summer 2018</p>	<p>The proposed Corte Madera Creek Units 3 and 4 Project would improve the existing concrete channel and the earthen channel up to the Sir Francis Drake Boulevard bridge in Ross including removing the old wooden fish ladder that is currently in the creek. The proposed project is part of a prior U.S. Army Corps of Engineers (USACE) Flood Control Project and therefore the USACE is our partner and potential funding source.</p>	<p align="center">\$400,000</p>
<p><i>Lower Corte Madera Creek Improvement Project (Dredge)</i> Implementing Agency: Marin County Flood Control and Water Conservation District Cost Estimate: \$6,220,265 (Source - Flood Zone 9/Ross Valley 10-Year Work Plan + Grant Application Costs To Date) Projected Construction Start Date: Approximately 4 years after secured funding (~2 years environmental review, ~ 2 years engineering design)</p>	<p>This proposed project will remove accumulated sediment from the lower sections of Corte Madera Creek in Kentfield, Larkspur, and Greenbrae. As the design moves forward, Staff will consider habitat improvements and beneficial sediment reuse opportunities that complement the project.</p>	<p align="center">PENDING</p>

Ross Valley Flood Protection and Watershed Program / Flood Zone 9 2015/16 Fiscal Year Proposed Budgets

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<i>Exhibit A - Assumptions</i>	Exhibit A

All public meetings and events sponsored or conducted by the County of Marin are held in accessible sites. Requests for accommodations may be made by calling (415) 473-4381(voice/TTY) or 711 for the California Relay Service or e-mailing disabilityaccess@marincounty.org at least four work days in advance of the event. Copies of documents are available in alternative formats, upon written request.

DRAFT Ross Valley Flood Protection Watershed - Program 10 Year DRAFT Work Plan Project Budget Summary

Last Updated 5/15/2015

PROJECT/PROGRAM/O&M	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 2014/15 + FY 2015/16	
		Amount	Amount	Amount	
PROJECTS SUBTOTAL	Professional Services	\$1,136,647	\$1,780,000	\$2,916,647	
	Misc. Services Subtotal	\$912,159	\$374,600	\$1,231,944	
	Construction	\$0	\$1,000,000	\$1,000,000	
	<i>Flood Control Salaries & Benefits</i>	\$411,306	\$443,320	\$767,503	
	<i>Real Estate Division</i>	\$49,000	\$101,000	\$192,876	
	<i>Transportation Division</i>	\$17,000	\$22,000	\$37,000	
	<i>Engineering Division</i>	\$3,000	\$5,500	\$6,500	
	<i>Parks & Open Space</i>	\$5,000	\$10,000	\$15,000	
	County Labor Charges Subtotal	\$485,306	\$581,820	\$913,127	
	TOTAL ESTIMATED FZ9 EXPENSES	\$2,534,112	\$3,736,420	\$6,270,532	
PROGRAM SUBTOTAL	Professional Services Subtotal:	\$422,593	\$100,000	\$522,593	
	Misc. Services Subtotal	\$25,000	\$50,000	\$75,000	
	Construction	\$0	\$0	\$0	
	<i>Flood Control Salaries & Benefits</i>	\$309,119	\$326,367	\$635,486	
	<i>Real Estate Division</i>	\$0	\$0	\$0	
	<i>Transportation Division</i>	\$78,600	\$78,000	\$156,600	
	<i>Engineering Division</i>	\$21,950	\$5,000	\$26,950	
	County Labor Charges Subtotal	\$409,669	\$409,367	\$819,036	
	TOTAL ESTIMATED FZ9 EXPENSES	\$857,262	\$559,367	\$1,416,629	
	OPERATIONS & MAINTENANCE (website maintenance, precipitation and stream gauge maintenance, ALERT System, Creek Maintenance Program, Routine Maintenance Program, Maintenance of Unit 1-3, Permits, Other Expenditure Charges ⁴)	Professional Services Subtotal:	\$0	\$0	\$0
Misc. Services Subtotal		\$25,000	\$25,000	\$50,000	
Construction		\$0	\$0	\$0	
<i>Flood Control Salaries & Benefits</i>		\$139,973	\$167,814	\$307,787	
<i>Real Estate Division</i>		\$50,000	\$15,000	\$65,000	
<i>Transportation Division</i>		\$17,000	\$22,000	\$39,000	
<i>Engineering Division</i>		\$43,936	\$10,500	\$54,436	
<i>Roads Division</i>		\$35,000	\$35,000	\$70,000	
<i>Parks & Open Space</i>		\$36,331	\$32,000	\$68,331	
<i>Other</i>		\$9,648	\$9,648	\$19,296	
County Labor Charges Subtotal		\$331,889	\$291,962	\$623,851	
Other Expenditures Charges⁴		\$123,660	\$140,960	\$264,620	
TOTAL ESTIMATED FZ9 EXPENSES	\$480,549	\$457,922	\$938,471		
TOTALS (PROJECTS + PROGRAM + OPERATION & MAINTENANCE)	Professional Services¹	\$1,559,240	\$1,880,000	\$3,439,240	
	Misc. Services Subtotal²	\$962,159	\$449,600	\$1,411,759	
	Construction³	\$0	\$1,000,000	\$1,000,000	
	<i>Flood Control Salaries & Benefits</i>	\$860,398	\$937,502	\$1,797,900	
	<i>Real Estate Division</i>	\$99,000	\$116,000	\$215,000	
	<i>Transportation Division</i>	\$112,600	\$122,000	\$234,600	
	<i>Engineering Division</i>	\$68,887	\$15,500	\$84,387	
	<i>Roads Division</i>	\$35,000	\$35,000	\$70,000	
	<i>Parks & Open Space</i>	\$36,331	\$42,000	\$78,331	
	<i>Other</i>	\$9,648	\$9,648	\$19,296	
	County Labor Charges Subtotal	\$1,221,864	\$1,277,650	\$2,499,513	
	Other Expenditures Charges⁴	\$123,660	\$140,960	\$264,620	
TOTAL ESTIMATED FZ9 EXPENSES	\$3,866,923	\$4,748,210	\$8,615,132		
REVENUE^(5, 6)	Watershed Fee ⁷	\$2,365,292	\$2,436,251	\$4,801,543	
	Other Taxes	\$199,610	\$205,598	\$405,208	
	Revenue From Use of Money and Intergovernmental Revenues	\$7,253	\$7,253	\$14,506	
	Miscellaneous Revenues	\$1,025	\$1,025	\$2,050	
		\$500	\$0	\$500	
	Proposition 1E SWFM Grant - Phoenix	\$108,908	\$188,100	\$297,008	
	TOTAL ESTIMATED REVENUE^(5, 6)	\$2,682,588	\$2,838,227	\$5,520,815	

Notes:

- Professional Services refers to consultant specialty services (engineering design, environmental, outreach, grant applications, storm drain fee reports, etc.)
- Misc. Services refers to Miscellaneous Services such as for web maintenance and reimbursements made to agency partners through Memorandum of Understandings such as for San Anselmo and Ross Bridge Projects, and for the Memorial Park detention basin.
- Construction refers to payments for construction contractor and can also include right-of-way/easement acquisition costs. See separate project budget sheets with Exhibit A assumptions used to estimate project timelines projected through 2022.
- Other Expenditure Charges includes: Utilities, Maintenance & Repair Services, Land & Buildings, Rent & Operating Leases, Professional Development, Travel, Dues, Office Supplies, Maintenance & Repair Supplies & Equipment, Land & Building Supplies, Miscellaneous Supplies.
- FZ9 and Special Project Fund starting balances are as follows:

*Flood Zone 9 (FZ9) Fund 23781:	\$ 10,753,615	(As of Feb 2015)
**Corte Madera Creek Units 3 & 4 Project (FZ9A) Fund 23780:	\$ 1,105,412	(As of Feb 2015)
***Phoenix Lake IRWM Retrofit Project (Fund 10,000, Fund Center 4100995079):	\$ 2,834,236	(As of Zbudget 2/5/15)
- Funds may be in pursuit and not yet secured. Grant funding secured by Town(s) not shown in these budgets (See Att. A from latest FZ9 Staff Report).
- Assumes 3% annual increase in Storm Drainage Fee Amount.

Project Budget Summary

Last Updated 5/14/2015

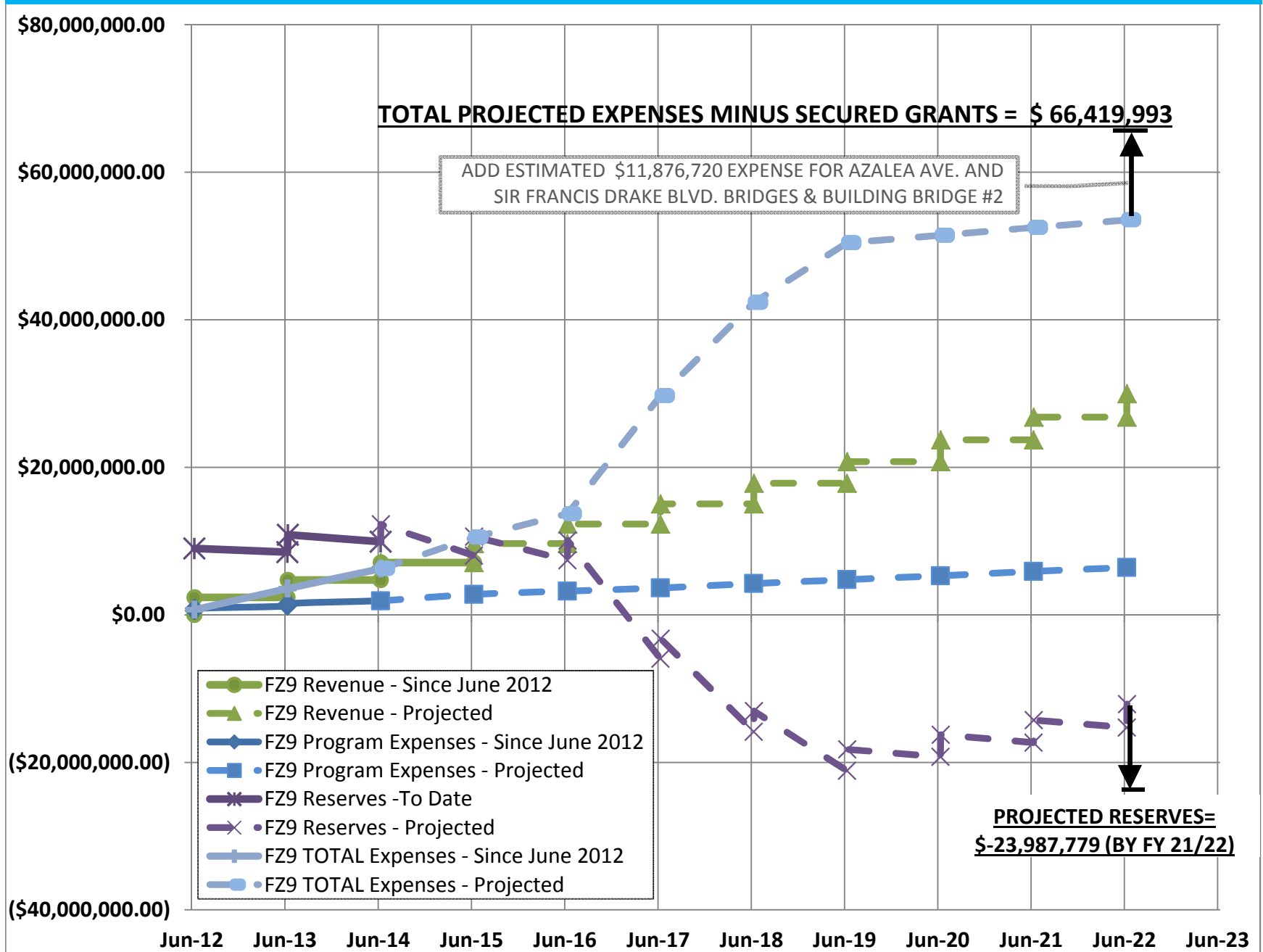
PROJECT/PROGRAM/ O&M	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 2014/15 + FY 2015/16	
		Amount	Amount	Amount	
Corte Madera Creek Units 3 & 4 Project**	Professional Services ¹	\$312,000	\$880,000	\$1,192,000	Determine feasibility with USACE.
	Misc. Services ²			\$0	
	Construction ³			\$0	
	County Labor Charges Subtotal	\$87,785	\$120,000	\$207,785	
	ESTIMATED FZ9 EXPENSES	\$399,785	\$1,000,000	\$1,399,785	
Lower Corte Madera Creek Improvement Project*	Professional Services	\$106,281	\$300,000	\$406,281	Project feasibility scoping design
	Misc. Services	\$0	\$0	\$0	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$82,000	\$80,000	\$162,000	
	ESTIMATED TOTAL BUDGET	\$188,281	\$380,000	\$568,281	
Winship Avenue Bridge (Town of Ross)*	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$83,735	\$0	\$83,735	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$21,500	\$27,000	\$48,500	
	ESTIMATED TOTAL BUDGET	\$105,235	\$27,000	\$132,235	
Nokomis Avenue Bridge (Town of San Anselmo)*	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$20,375	\$0	\$20,375	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$20,500	\$27,000	\$47,500	
	ESTIMATED TOTAL BUDGET	\$40,875	\$27,000	\$67,875	
Madrone Avenue Bridge (Town of San Anselmo)*	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$95,117	\$0	\$95,117	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$21,500	\$27,000	\$48,500	
	ESTIMATED TOTAL BUDGET	\$116,617	\$27,000	\$143,617	
Sycamore Ave/Center Boulevard Bridge (Town of San Anselmo)*	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$285,332	\$0	\$285,332	
	Construction	\$0	\$1,000,000	\$1,000,000	
	County Labor Charges Subtotal	\$24,500	\$47,000	\$71,500	
	ESTIMATED TOTAL BUDGET	\$309,832	\$1,047,000	\$1,356,832	
Building Bridge #2 (Town of San Anselmo)*	Professional Services	\$57,000	\$0	\$57,000	Grant search
	Misc. Services	\$60,200	\$0	\$60,200	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$0	\$0	\$0	
	ESTIMATED TOTAL BUDGET	\$117,200	\$0	\$117,200	
Ross Valley In-Creek Improvement Measures*	Professional Services	\$0	\$0	\$0	Grant search
	Misc. Services	\$0	\$0	\$0	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$26,438	\$26,438	\$52,876	
	ESTIMATED TOTAL BUDGET	\$26,438	\$26,438	\$52,876	
Phoenix Lake IRWM Retrofit Project***	Professional Services Subtotals	\$281,213	\$500,000	\$781,213	Determine feasibility with MMWD.
	Misc. Services Subtotals	\$4,815	\$50,000	\$0	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$77,000	\$77,000	\$0	
	ESTIMATED TOTAL BUDGET	\$363,028	\$627,000	\$990,028	
Lefty Gomez Dual-Use Facility *	Professional Services Subtotals	\$253,199	\$0	\$253,199	Geotechnical study prior to grant applications.
	Misc. Services	\$0	\$0	\$0	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$54,147	\$55,941	\$110,088	
	ESTIMATED TOTAL BUDGET	\$307,346	\$55,941	\$363,287	
Loma Alta Dual-Use*	Professional Services Subtotals	\$126,954	\$100,000	\$226,954	Site selection prior to geotechnical study.
	Misc. Services	\$0	\$0	\$0	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$54,603	\$75,941	\$130,544	
	ESTIMATED TOTAL BUDGET	\$181,557	\$175,941	\$357,499	
Memorial Park Dual- Use Facility*	Professional Services Subtotals	\$0	\$0	\$0	Start CEQA soon.
	Misc. Services Subtotal	\$362,585	\$324,600	\$687,185	
	Construction	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$15,333	\$18,500	\$33,833	
	ESTIMATED TOTAL BUDGET	\$377,918	\$343,100	\$721,018	

DRAFT Ross Valley Flood Protection Watershed - Program 10 Year Work Plan Project Budget Summary
 Last Updated 5/15/2015

PROJECT/ PROGRAM/ O&M	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
PROGRAM BUDGET	Annual Updates to Storm Drainage Fee Report (3-Year Contract)	\$46,625	\$0	\$46,625	See Current Phase for Each Project
	Outreach Services	\$93,330	\$50,000	\$143,330	
	Stetson On-Call Services (First Addendum, 2-Year Contract)	\$120,000	\$0	\$120,000	
	Matt Smeltzer On-Call Services	\$0	\$50,000	\$50,000	
	CH2M-HILL Flow Reduction Study	\$162,000	\$0	\$162,000	
	Website Design Services	\$638	\$0	\$638	
	Professional Services Subtotal:	\$422,593	\$100,000	\$522,593	
	Misc. Services Subtotal (Website Design)	\$25,000	\$50,000	\$75,000	
	Construction	\$0	\$0	\$0	
	Flood Control Salaries & Benefits	\$309,119	\$326,367	\$635,486	
	Real Estate Division	\$0	\$0	\$0	
	Transportation Division	\$78,600	\$78,000	\$156,600	
	Engineering Division	\$21,950	\$5,000	\$26,950	
	Roads Division	\$0	\$0	\$0	
	Parks & Open Space	\$0	\$0	\$0	
	Other	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$409,669	\$409,367	\$819,036	
ESTIMATED TOTAL BUDGET	\$857,262	\$559,367	\$1,416,629		

10 Year FZ9 PROGRAM Budget Projection Chart

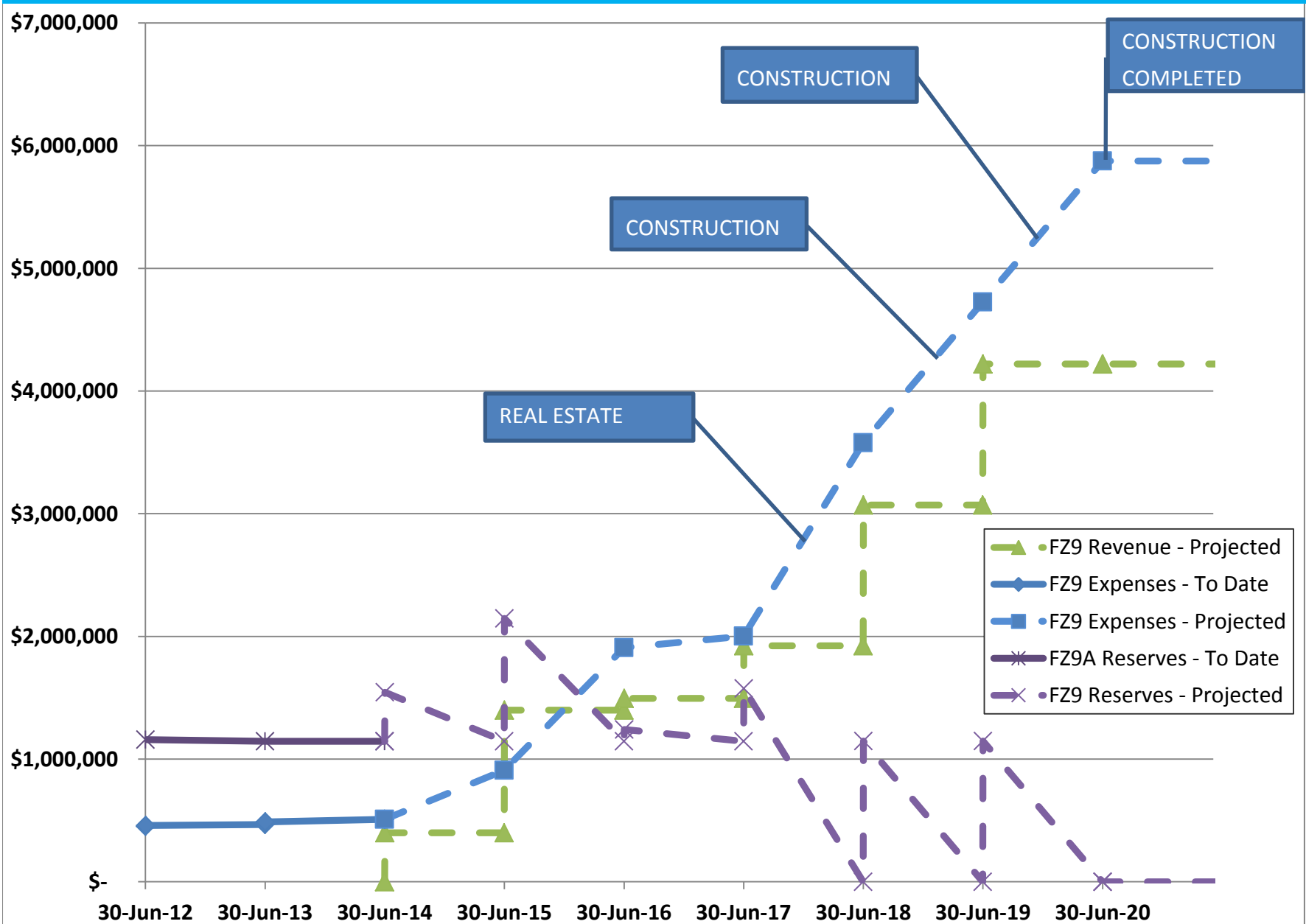
(Please See Assumptions as Exhibit A)



PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Corte Madera Creek Units 3 & 4 Project	Professional Services	\$312,000	\$880,000	\$1,192,000	Determine feasibility with USACE.
	Misc. Services			\$0	
	Construction			\$0	
	Flood Control Salaries & Benefits Expenses Subtotals	\$77,785	\$100,000	\$177,785	
	<i>Real Estate Division</i>	\$10,000	\$20,000	\$30,000	
	<i>Transportation Division</i>	\$0	\$0	\$0	
	<i>Engineering Division</i>	\$0	\$0	\$0	
	<i>Roads Division</i>	\$0	\$0	\$0	
	<i>Parks & Open Space</i>	\$0	\$0	\$0	
	<i>Other</i>	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$87,785	\$120,000	\$207,785	
	TOTAL FZ9 EXPENSES	\$399,785	\$1,000,000	\$1,399,785	
	U.S. ARMY CORPS COST	\$400,000	\$1,000,000	\$1,400,000	
ESTIMATED TOTAL BUDGET	\$799,785	\$2,000,000	\$2,799,785		

*Funds may be in pursuit and not yet secured. Includes U.S. Army Corp of Engineers Federal Funding.

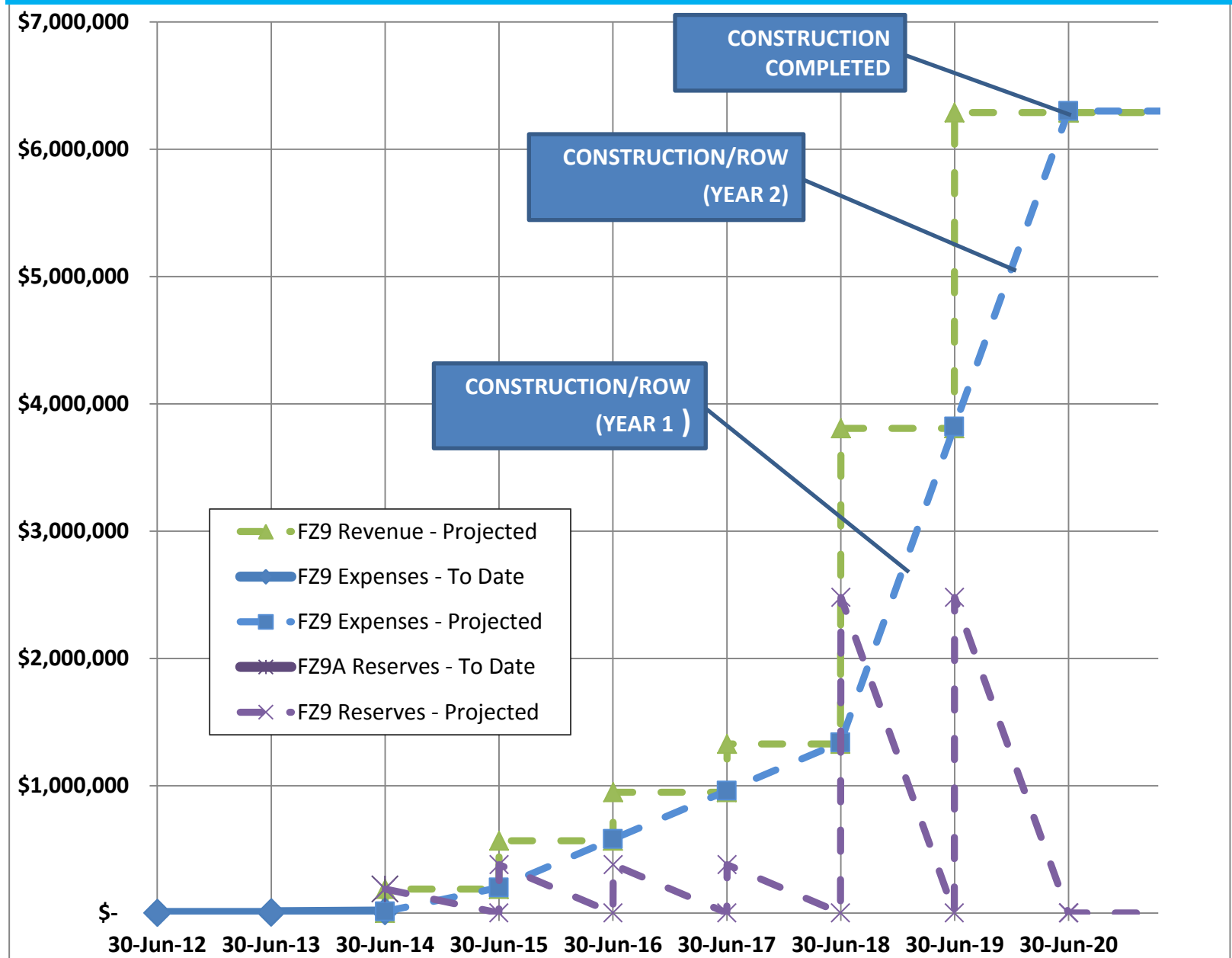
10 Year FZ9 Corte Madera Creek Units 3 & 4 Budget Projection Chart



PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
Lower Corte Madera Creek Improvement Project	Professional Services	\$106,281	\$300,000	\$406,281	Planning/ Feasibility Phase
	Misc. Services	\$0	\$0	\$0	
	Construction	\$0	\$0	\$0	
	Flood Control Salaries & Benefits Expenses Subtotals	\$62,000	\$60,000	\$122,000	
	Real Estate Division	\$20,000	\$20,000	\$40,000	
	Transportation Division	\$0	\$0	\$0	
	Engineering Division	\$0	\$0	\$0	
	Roads Division	\$0	\$0	\$0	
	Parks & Open Space	\$0	\$0	\$0	
	Other	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$82,000	\$80,000	\$162,000	
	ESTIMATED TOTAL BUDGET	\$188,281	\$380,000	\$568,281	

*Funds may be in pursuit and not yet secured. Any grant funding secured by City not shown in these budgets.

10 Year FZ9 Lower Corte Madera Creek Improvement Project Budget Projection Chart

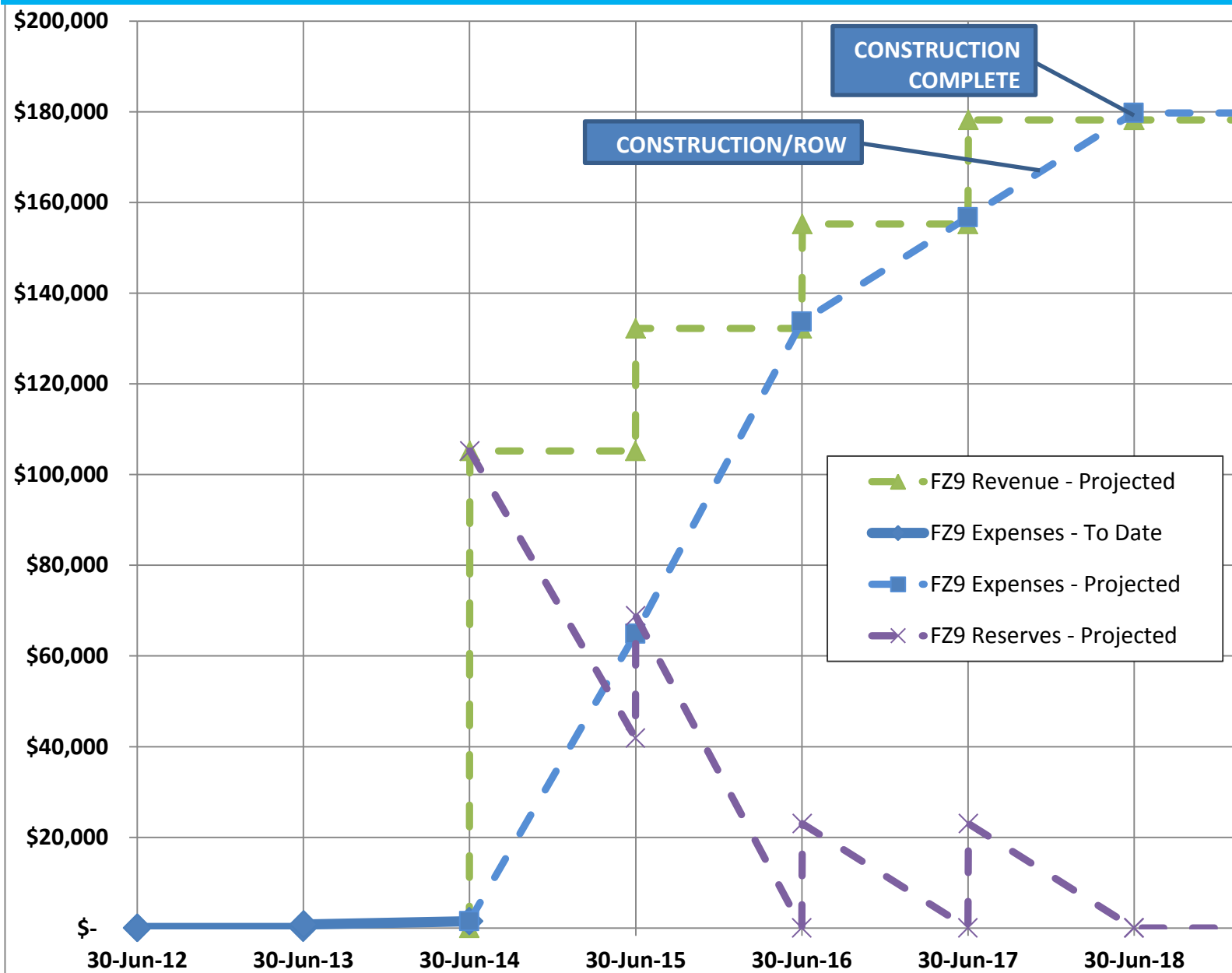


PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Winship Ave Bridge (Town of Ross)	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$83,735	\$0	\$83,735	
	Construction	\$0	\$0	\$0	
	Flood Control Salaries & Benefits	\$18,500	\$20,000	\$38,500	
	Real Estate Division	\$1,000	\$5,000	\$6,000	
	Transportation Division	\$1,000	\$1,000	\$2,000	
	Engineering Division	\$1,000	\$1,000	\$2,000	
	Roads Division	\$0	\$0	\$0	
	Parks & Open Space	\$0	\$0	\$0	
	Other	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$21,500	\$27,000	\$48,500	
	ESTIMATED TOTAL BUDGET	\$105,235	\$27,000	\$132,235	

*Funds may be in pursuit and not yet secured. Grant funding secured by Town not shown in these budgets.

10 Year FZ9 Winship Avenue Bridge Budget Projection Chart

(Please See Assumptions as Exhibit A)

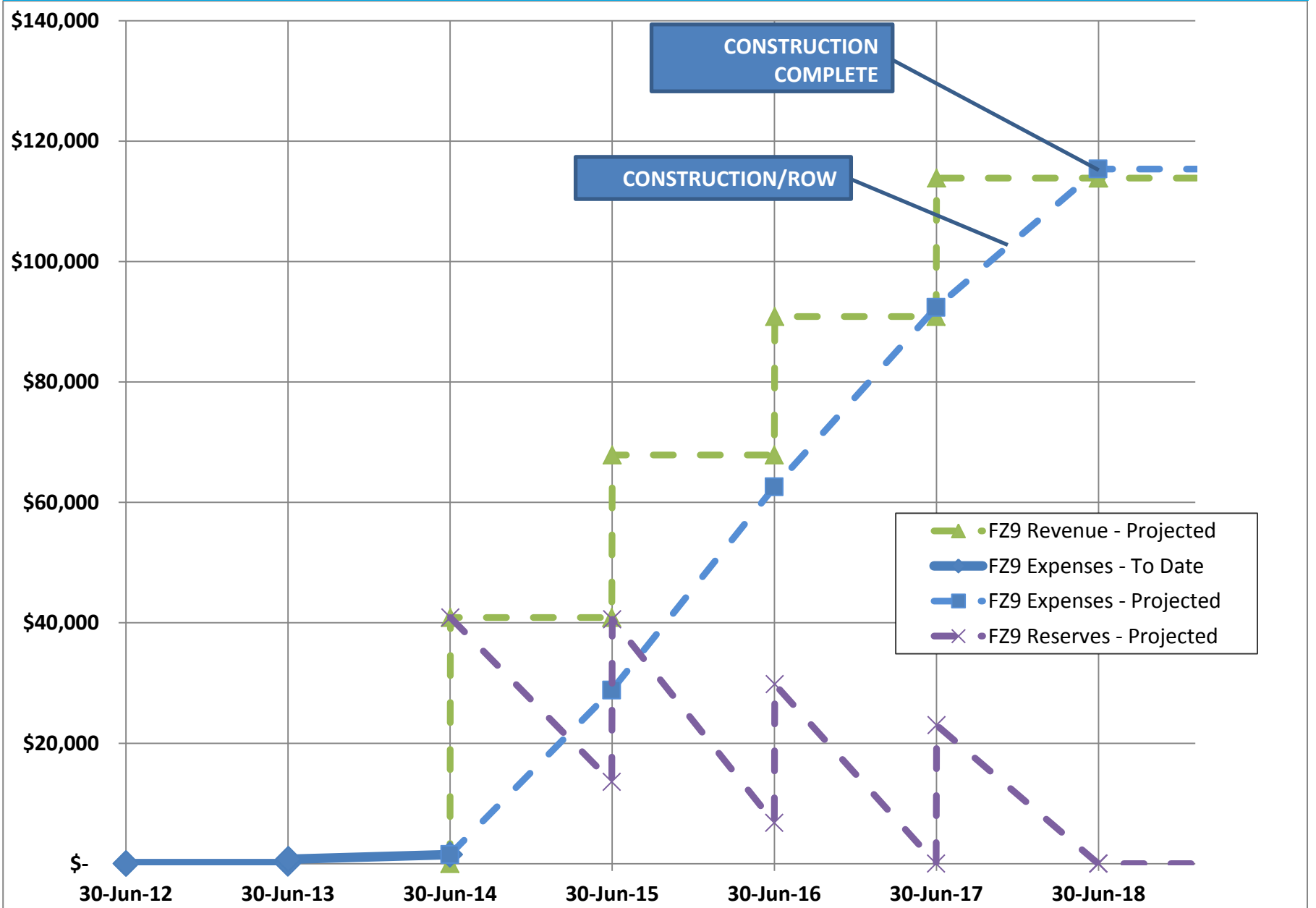


PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Nokomis Avenue Bridge (Town of San Anselmo)	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$20,375	\$0	\$20,375	
	Construction	\$0	\$0	\$0	
	Flood Control Salaries & Benefits	\$18,500	\$20,000	\$38,500	
	Real Estate Division	\$1,000	\$5,000	\$6,000	
	Transportation Division	\$1,000	\$1,000	\$2,000	
	Engineering Division	\$0	\$1,000	\$1,000	
	Roads Division	\$0	\$0	\$0	
	Parks & Open Space	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$20,500	\$27,000	\$47,500	
	ESTIMATED TOTAL BUDGET	\$40,875	\$27,000	\$67,875	

*Funds may be in pursuit and not yet secured. Grant funding secured by Town not shown in these budgets.

10 Year FZ9 Nokomis Avenue Bridge Budget Projection Chart

(Please See Assumptions as Exhibit A)

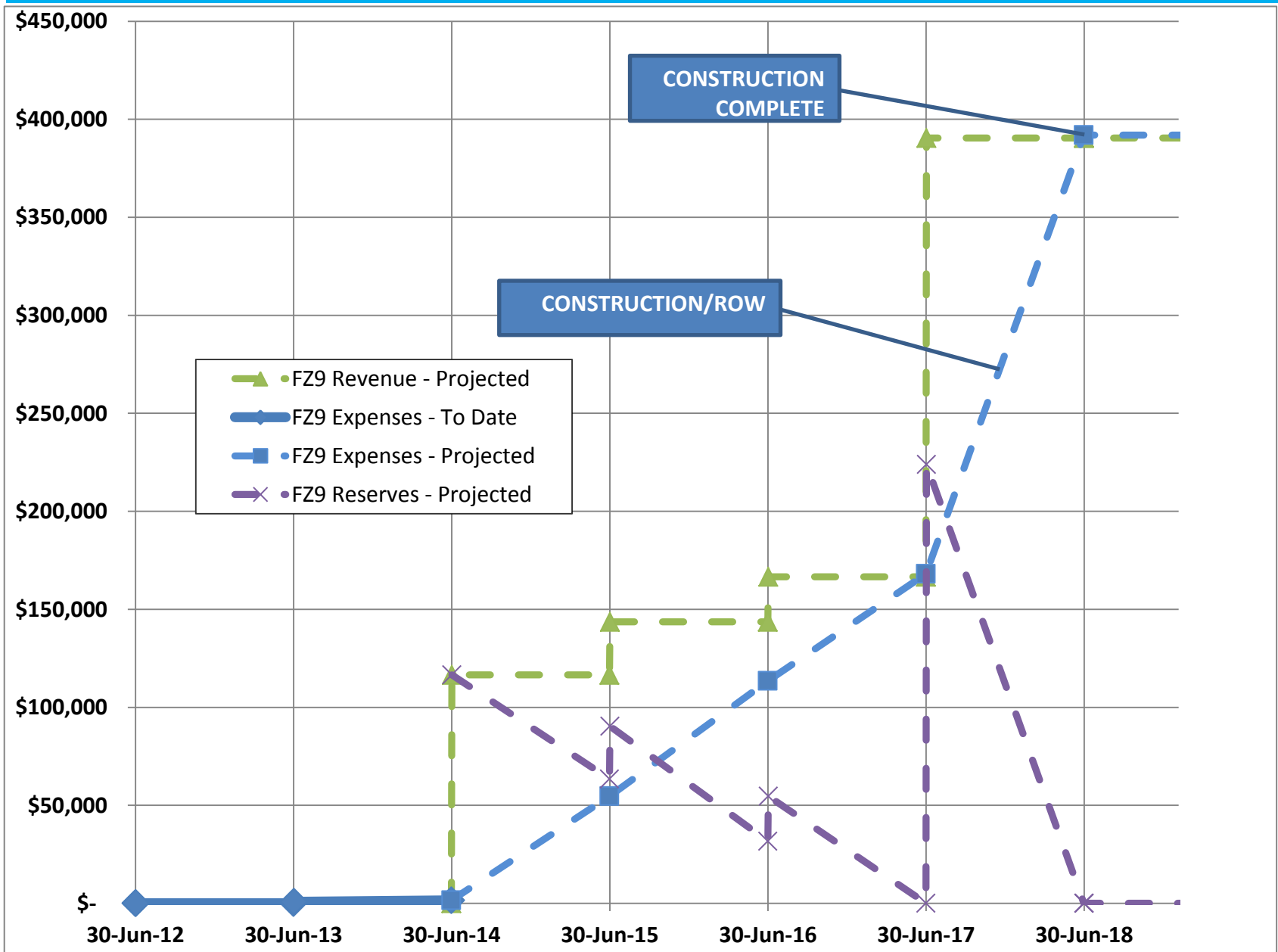


PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Madrone Avenue Bridge (Town of San Anselmo)	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$95,117	\$0	\$95,117	
	Construction	\$0	\$0	\$0	
	Flood Control Salaries & Benefits	\$18,500	\$20,000	\$38,500	
	Real Estate Division	\$1,000	\$5,000	\$6,000	
	Transportation Division	\$1,000	\$1,000	\$2,000	
	Engineering Division	\$1,000	\$1,000	\$2,000	
	Roads Division	\$0	\$0	\$0	
	Parks & Open Space	\$0	\$0	\$0	
	Other	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$21,500	\$27,000	\$48,500	
ESTIMATED TOTAL BUDGET	\$116,617	\$27,000	\$143,617		

*Funds may be in pursuit and not yet secured. Grant funding secured by Town not shown in these budgets.

10 Year FZ9 Madrone Avenue Bridge Budget Projection Chart

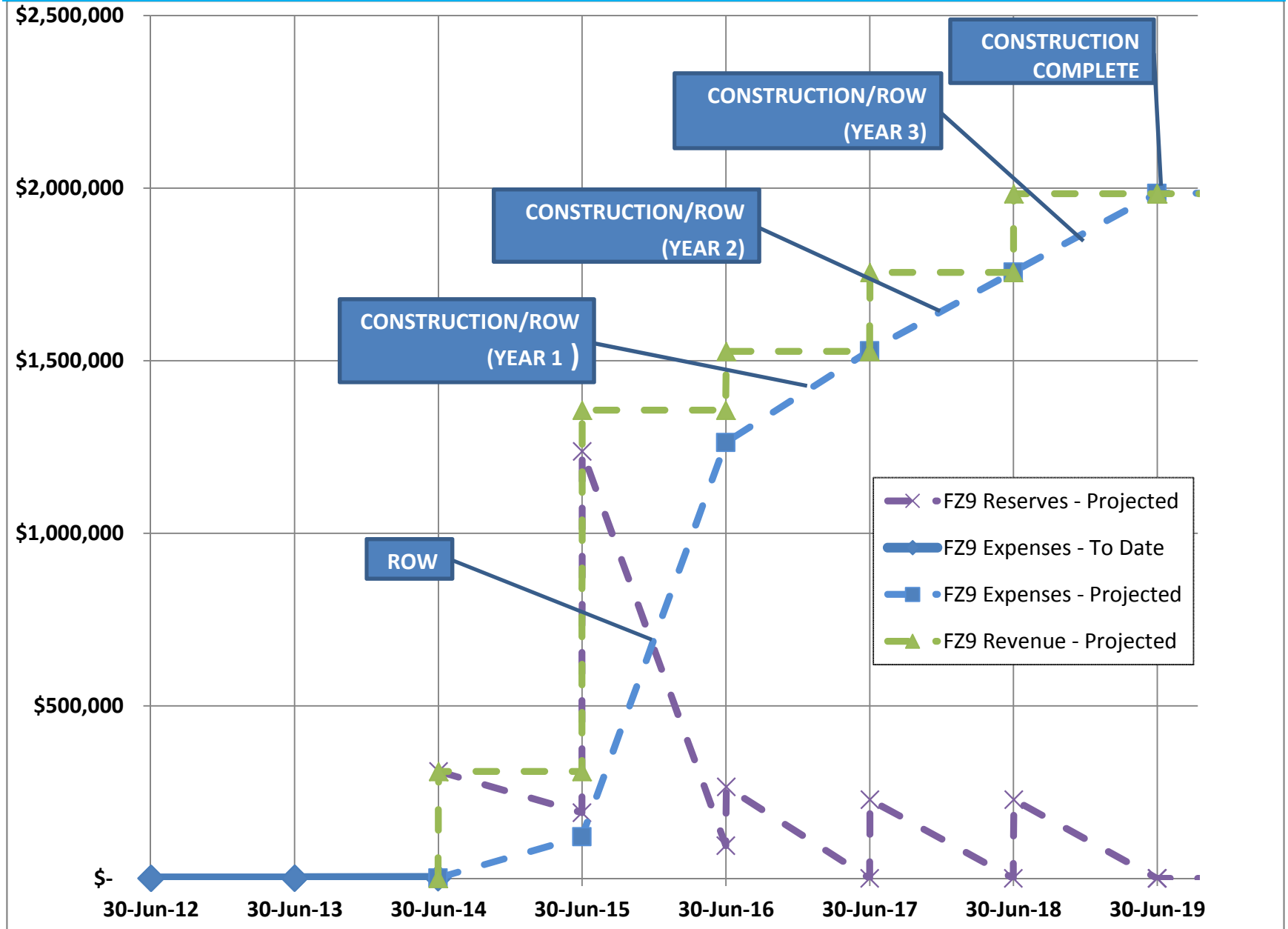
(Please see Assumptions as Exhibit A)



PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Sycamore Avenue/Center Boulevard Bridge (Town of San Anselmo)	Professional Services	\$0	\$0	\$0	Preliminary Engineering
	Misc. Services	\$285,332	\$0	\$285,332	
	Construction	\$0	\$1,000,000	\$1,000,000	
	Flood Control Salaries & Benefits	\$18,500	\$20,000	\$38,500	
	Real Estate Division	\$5,000	\$25,000	\$30,000	
	Transportation Division	\$1,000	\$1,000	\$2,000	
	Engineering Division	\$0	\$1,000	\$1,000	
	Roads Division	\$0	\$0	\$0	
	Parks & Open Space	\$0	\$0	\$0	
	Other	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$24,500	\$47,000	\$71,500	
ESTIMATED TOTAL BUDGET	\$309,832	\$1,047,000	\$1,356,832		

*Funds may be in pursuit and not yet secured. Grant funding secured by Town not shown in these budgets.

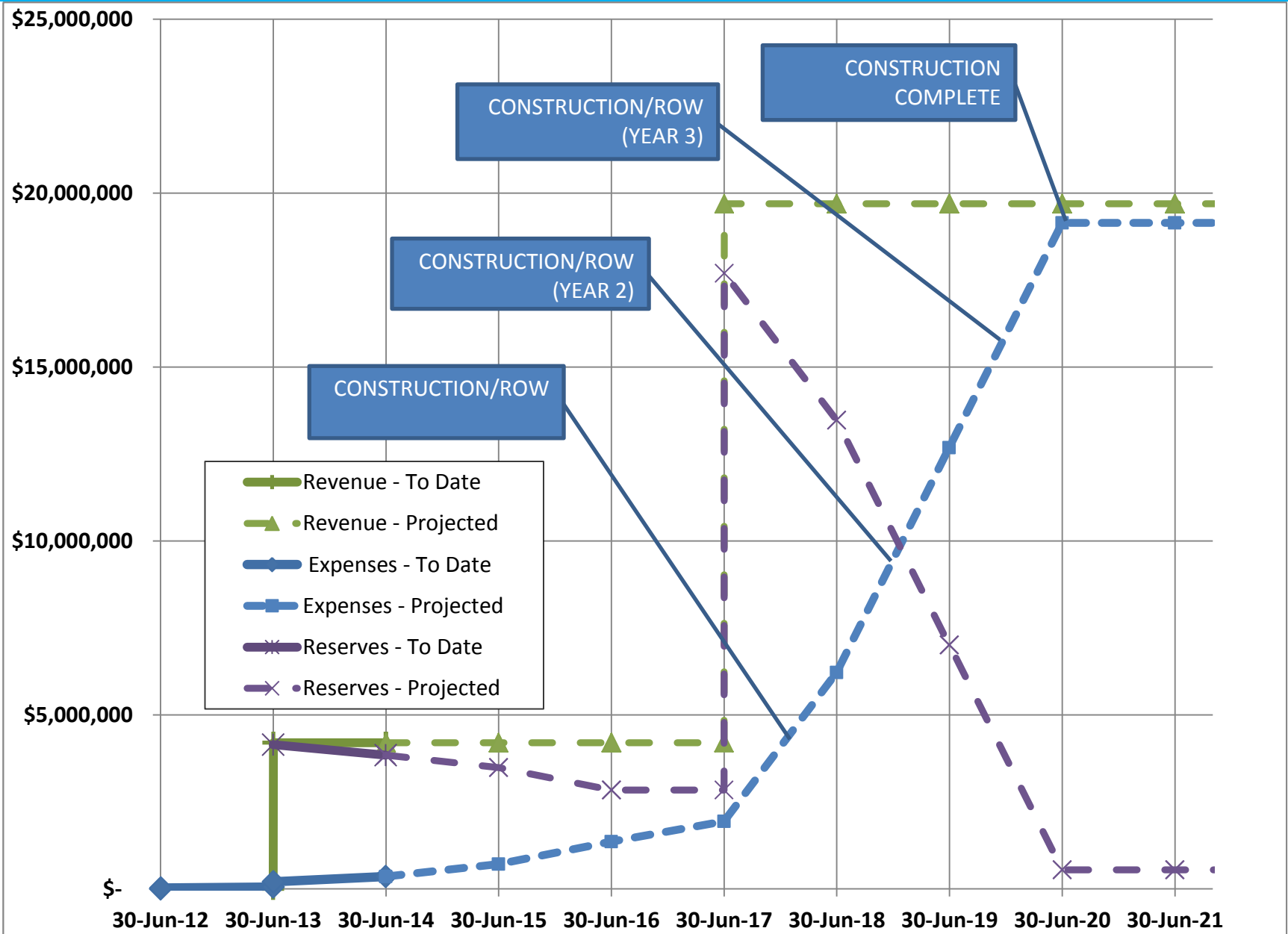
10 Year FZ9 Sycamore Avenue/Center Boulevard Bridge Budget Projection Chart



PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Phoenix Lake IRWM Retrofit Project	Portion of Stetson's First Addendum for Phoenix Lake tasks	\$168,000	\$0	\$168,000	Determine feasibility with MMWD.
	CH2M-HILL First Addendum: Task Order 3 & 5	\$113,213	\$0	\$113,213	
	CH2M-HILL 2nd Addendum (CEQA/30% design)	\$0	\$500,000	\$500,000	
	Professional Services Subtotal	\$281,213	\$500,000	\$781,213	
	MMWD MOU Addendum	\$0	\$50,000	\$50,000	
	DSOD Permit Fee	\$2,366	\$0	\$2,366	
	RWQCB Permit Fee	\$1,097	\$0	\$1,097	
	DSOD Permit Fee	\$1,352	\$0	\$1,352	
	Misc. Services Subtotals	\$4,815	\$50,000	\$54,815	
	Construction	\$0	\$0	\$0	
	Flood Control Salaries & Benefits	\$70,000	\$70,000	\$140,000	
	Real Estate Division	\$5,000	\$5,000	\$10,000	
	Transportation Division	\$1,000	\$1,000	\$2,000	
	Engineering Division	\$1,000	\$1,000	\$2,000	
	County Labor Charges Subtotal	\$77,000	\$77,000	\$154,000	
ESTIMATED TOTAL BUDGET	\$363,028	\$677,000	\$1,040,028		

*Funds may be in pursuit and not yet secured. This budget sheet does not reflect any Department of Water Resources grant funding reimbursements.

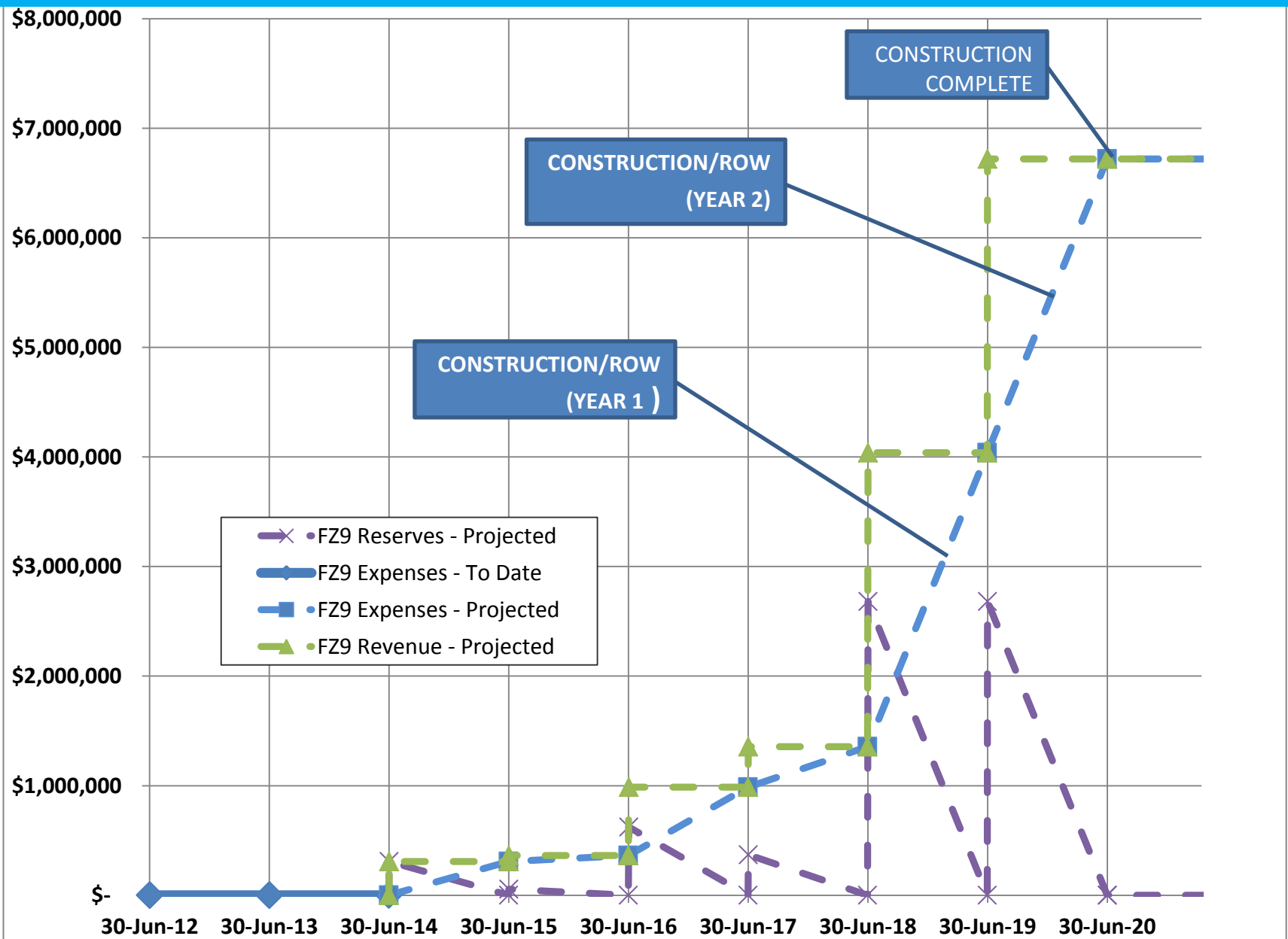
10 Year FZ9 Phoenix Lake IRWM Retrofit Project Budget Projection Chart



PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Lefty Gomez Dual-Use Facility *	Professional Services Subtotals	\$253,199	\$0	\$253,199	Geotechnical study prior to grant applications.
	Misc. Services	\$0	\$0	\$0	
	Construction	\$0	\$0	\$0	
	Flood Control Salaries & Benefits	\$44,147	\$45,941	\$90,088	
	Real Estate Division	\$5,000	\$5,000	\$10,000	
	Transportation Division	\$5,000	\$5,000	\$10,000	
	Engineering Division	\$0	\$0	\$0	
	Maintenance/Other	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$54,147	\$55,941	\$110,088	
	ESTIMATED TOTAL BUDGET	\$307,346	\$55,941	\$363,287	

*Funds may be in pursuit and not yet secured. Grant funding secured by Town not shown in these budgets.

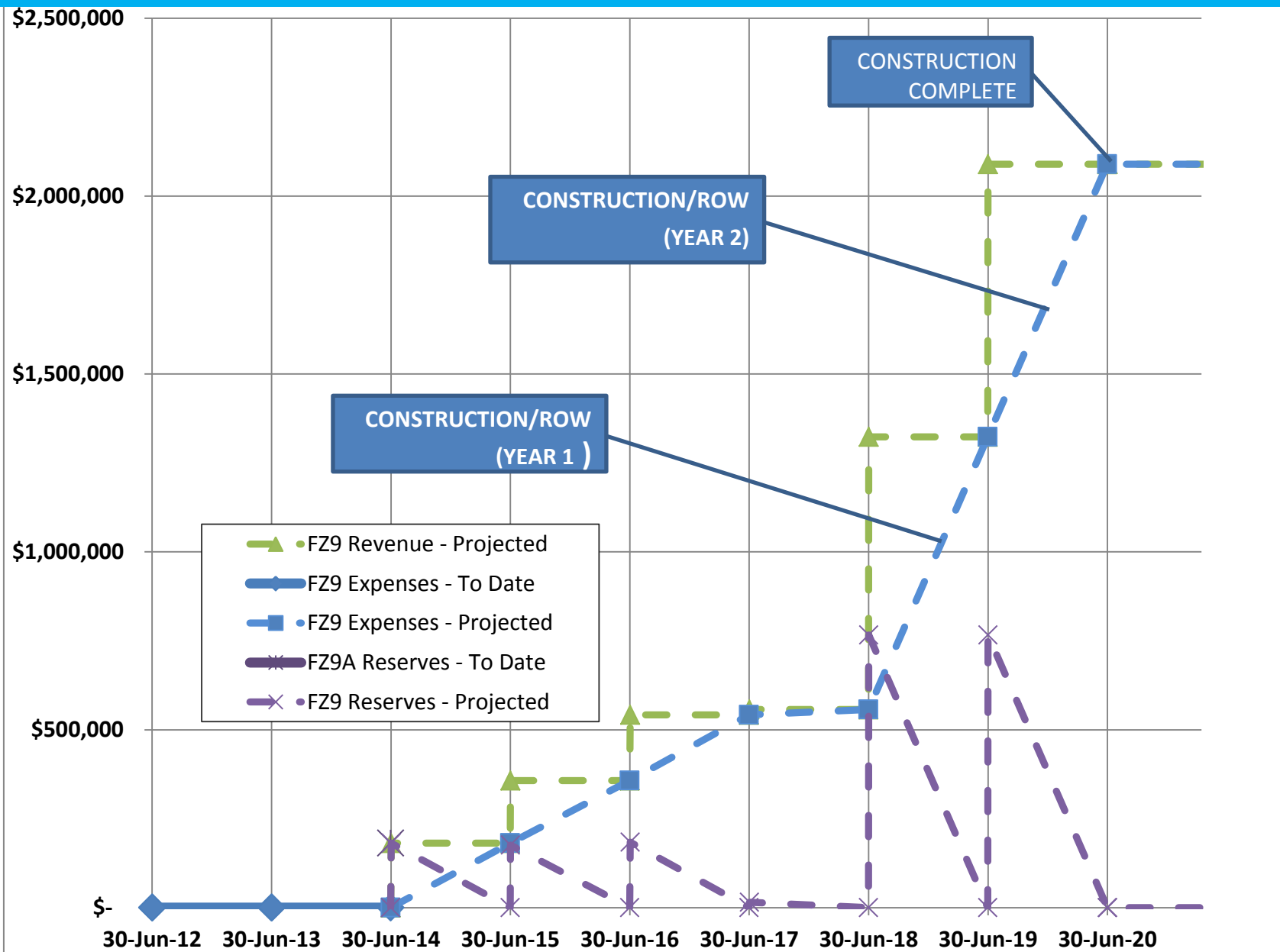
10 Year FZ9 Lefty Gomez Dual-Use Facility Budget Projection Chart



PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Loma Alta Dual Use Facility*	Professional Services Subtotals	\$126,954	\$100,000	\$226,954	Site selection prior to geotechnical study.
	Misc. Services	\$0	\$0	\$0	
	Construction	\$0	\$0	\$0	
	<i>Flood Control Salaries & Benefits</i>	\$44,603	\$45,941	\$90,544	
	<i>Real Estate Division</i>	\$0	\$10,000	\$10,000	
	<i>Transportation Division</i>	\$5,000	\$10,000	\$15,000	
	<i>Engineering Division</i>	\$0	\$0	\$0	
	<i>Parks & Open Space</i>	\$5,000	\$10,000	\$15,000	
	County Labor Charges Subtotal	\$54,603	\$75,941	\$130,544	
ESTIMATED TOTAL BUDGET	\$181,557	\$175,941	\$357,499		

*Funds may be in pursuit and not yet secured. Grant funding secured by Town not shown in these budgets.

10 Year FZ9 Loma Alta Dual-Use Facility Budget Projection Chart



PROJECT	EXPENSE CATEGORY	ESTIMATED FUTURE SPENDING*			CURRENT PHASE
		FY2014/15 (7/1/14 through 6/30/15)	FY2015/16 (7/1/15 through 6/30/16)	FY 14/15 + FY 15/16	
		Amount	Amount	Amount	
Memorial Park Dual-Use Facility*	Professional Services Subtotals	\$0	\$0	\$0	Start CEQA soon.
	DWR Grant Application	\$89,200	\$0	\$89,200	
	FEMA/CalOES Grant Application	\$73,385	\$0	\$73,385	
	Future Grant Applications		\$80,000	\$80,000	
	CEQA Studies	\$200,000	\$0	\$200,000	
	Design	\$0	\$244,600	\$244,600	
	Misc. Services Subtotal	\$362,585	\$324,600	\$687,185	
	Construction	\$0	\$0	\$0	
	<i>Flood Control Salaries & Benefits</i>	\$12,333	\$15,000	\$27,333	
	<i>Real Estate Division</i>	\$1,000	\$1,000	\$2,000	
	<i>Transportation Division</i>	\$2,000	\$2,000	\$4,000	
	<i>Engineering Division</i>	\$0	\$500	\$500	
	<i>Other</i>	\$0	\$0	\$0	
	County Labor Charges Subtotal	\$15,333	\$18,500	\$33,833	
	ESTIMATED TOTAL BUDGET	\$377,918	\$343,100	\$721,018	

*Funds may be in pursuit and not yet secured. Grant funding secured by Town not shown in these budgets.

10 Year FZ9 Memorial Park Dual-Use Facility Budget Projection Chart

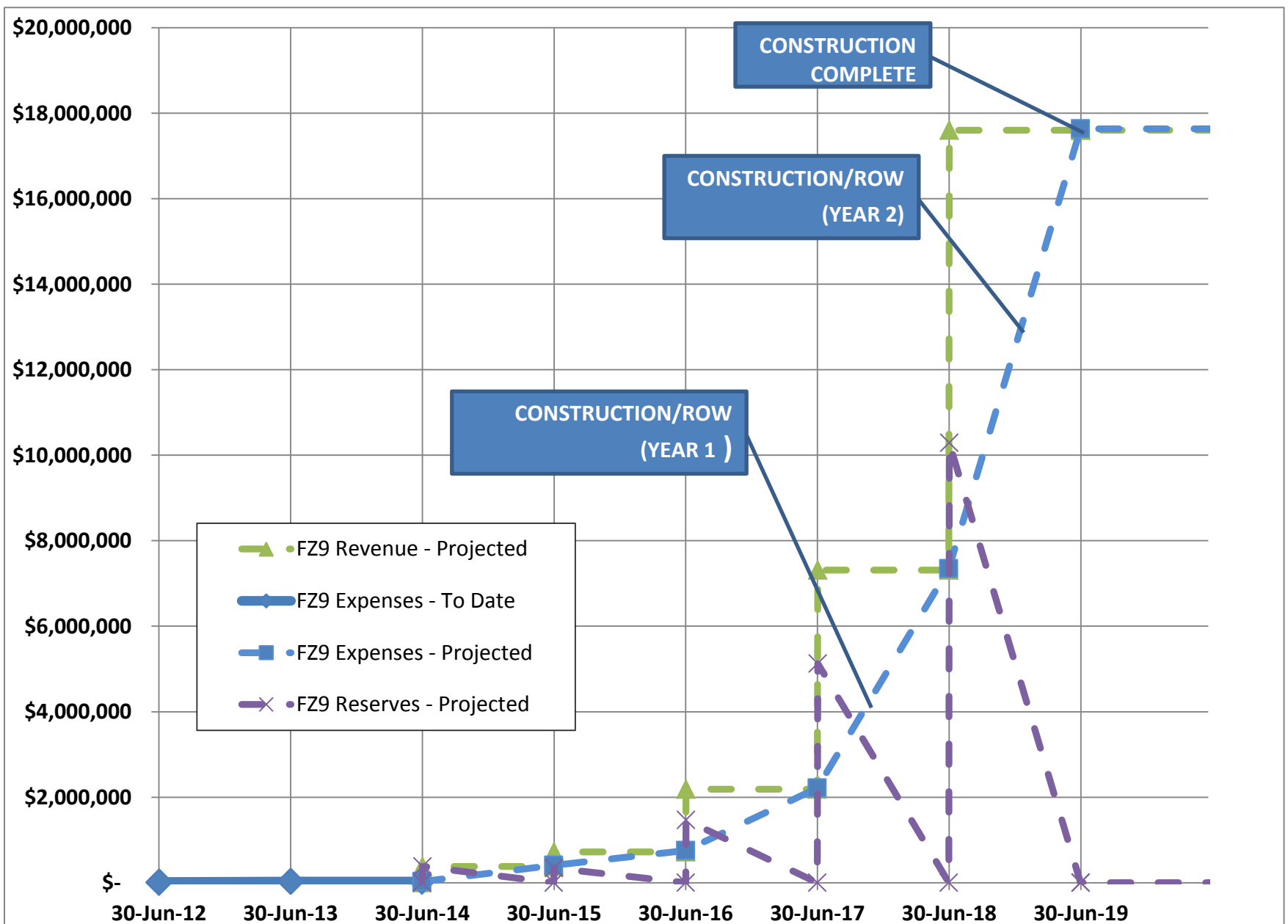


EXHIBIT A - 2015/16 ROSS VALLEY FLOOD PROTECTION AND WATERSHED DRAFT PROGRAM BUDGETS

Last Updated 5/14/2015

General Assumptions Applicable to All Projects, Program, and Operations and Maintenance Budget Information:
1. Professional Services refers to consultant specialty services such as engineering design, environmental, outreach, grant applications, storm drain fee reports, etc.
2. Misc. Services refers to Miscellaneous Services such as for web maintenance and reimbursements made to agency partners through Memorandum of Understandings such as for San Anselmo and Ross Bridge Projects, and for the Memorial Park detention basin.
3. Construction refers to payments for construction contractor and can also include right-of-way/easement acquisition costs. See separate project budget sheets for estimated project timelines/budgets projected through 2021/22 FY.
4. Other Expenditure Charges includes: Utilities, Maintenance & Repair Services, Land & Buildings, Rent & Operating Leases, Professional Development, Travel, Dues, Office Supplies, Maintenance & Repair Supplies & Equipment, Land & Building Supplies, Miscellaneous Supplies.
5. Funds may be in pursuit and not yet secured. Grant funding secured by Town(s) not shown in these budgets (See Attachment A from latest Flood Zone 9 Staff Report).
6. Project costs may need to be adjusted due to additional mitigation measures which may be identified during the completion of the program/project environmental phase.

Specific Assumptions Used to Generate FZ9 and FZ9A 10 Year Budget Projection Charts

1. Projected revenues for Program assumes an annual 3% rise in storm drainage fee revenue each year through FY 2021/22.
2. Applicable to all projects - The 'Reserves - Projected' , 'Expenses- To date' and 'Expenses-Projected' lines assume linear averages between fiscal years even though actual expenses and reserves may not be linear within any given fiscal years.
3. Applicable to all projects - The 'Budget - Projected' line assumes sufficient reserves are available within FZ9 account balance at the time when budget adjustments and/or transfers are needed to fund anticipated expenses for each project.

Corte Madera Creek Units 3 & 4 Project	<p>1. Assumes that project will receive federal funding annually.</p> <p>2. \$400,000 approved in 2014/15 Fiscal Year, funding assumed over the next 2 years and into right-of-way and construction phases.</p>
Lower Corte Madera Creek Improvement Project	<p>1. Schedule assumes 1 year for scoping, 2 years for design and environmental and 2 years for construction.</p>
Winship Ave Bridge (Town of Ross)	<p>1. Assumes construction occurs in 2016/17 FY and that construction funding is authorized by Caltrans and Town.</p> <p>2. Assumes Town continues supporting the project and Marin County Flood Control & Water Conservation District Board of Supervisors approve Flood Zone 9 Advisory Board recommended budgets shown between 2015/16 FY through 2021/22 FY.</p> <p>3. Assumes that cost share percentage is approved for Preliminary Engineering phase will continue through Right-of-Way and construction phase.</p>
Nokomis Avenue Bridge (Town of San Anselmo)	<p>1. Assumes construction occurs in 2017/18 FY and that construction funding is authorized by Caltrans and Town.</p> <p>2. Assumes Town continues supporting the project and Marin County Flood Control & Water Conservation District Board of Supervisors approve Flood Zone 9 Advisory Board recommended budgets shown between 2015/16 FY through 2021/22 FY.</p> <p>3. Assume that Project Management costs of Preliminary Engineering (PE) will be reimbursed by Caltrans.</p> <p>4. Assumes that cost share percentage is approved for Preliminary Engineering phase will continue through Right-of-Way and construction phase.</p>
Madrone Avenue Bridge (Town of San Anselmo)	<p>1. Assumes construction occurs in 2017/18 FY and that construction funding is authorized by Caltrans and Town.</p> <p>2. Assumes Town continues supporting the project and Marin County Flood Control & Water Conservation District Board of Supervisors approve Flood Zone 9 Advisory Board recommended budgets shown between 2015/16 FY through 2021/22 FY.</p> <p>3. Assume that Project Management costs of Preliminary Engineering (PE) will be reimbursed by Caltrans.</p> <p>4. Assumes that cost share percentage is approved for Preliminary Engineering phase will continue through Right-of-Way and construction phase.</p>
Sycamore Avenue/Center Boulevard Bridge (Town of San Anselmo)	<p>1. Assumes construction occurs in 2017/18 FY and that construction funding is authorized by Caltrans and Town.</p> <p>2. Assumes Town continues supporting the project and Marin County Flood Control & Water Conservation District Board of Supervisors approve Flood Zone 9 Advisory Board recommended budgets shown between 2015/16 FY through 2021/22 FY.</p> <p>3. Assumes Project Management costs of Preliminary Engineering (PE) will be reimbursed by Caltrans.</p> <p>4. Does not include removal of Bridge Street bridge which has not been authorized to date.</p> <p>5. Cost will depend on scope of project determined in conceptual design and approved by Caltrans to continue with PE phase.</p> <p>6. Assumes cost share percentage is approved for Preliminary Engineering phase will continue through Right-of-Way and construction phase.</p>

EXHIBIT A (CONTINUED)

Phoenix Lake IRWM Retrofit Project	1. Assumes all costs will be as shown in Exhibit C of Grant Agreement with DWR dated 5/8/13 totaling \$19.7M.
	2. Assumes design, CEQA & NEPA total cost = \$1,722,505.
	3. Assumes construction (including contingency, CM, testing, biological surveys & cultural resource surveys) total cost = \$16, 745,023.
	4. Assumes County staff cost = \$613,776 and MMWD staff cost = \$373,753.
	5. Assumes feasibility studies and water sampling/testing = \$236,889.
	6. Assumes feasibility studies and water sampling/testing occurs from now through Sept. 2015.
	7. Assumes design/CEQA/NEPA occurs from June 2015 through Aug. 2016.
	8. Assumes permitting, easement acquisition & obtaining CLOMR occurs from March 2016 through Sept. 2017.
	9. Assumes bid period and construction occurs from Oct. 2017 through April 2020.
Lefty Gomez Dual-Use Facility	1. Assumes professional services & construction costs will be as shown in cost estimation in Attachment B to Technical Memo #5 by Stetson Engineers dated 11/30/11 totaling \$6.4M.
	2. Assumes design, CEQA & geotechnical analysis total cost = \$1,141,000.
	3. Assumes construction (including contingency, inspection & environmental protection) total cost = \$5,259,000.
	4. Assumes County staff cost = 5% of total cost = \$320,000.
	5. Assumes design & CEQA occurs during FY16/17 and FY17/18 per presentation given to Canon Swim & Racket Club on 1-27-15.
	6. Assumes construction occurs during FY18/19 and FY19/20 per presentation given to Canon Swim & Racket Club on 1-27-15.
Loma Alta Dual-Use	1. Assumes professional services & construction costs will be as shown in cost estimation in Attachment B to Technical Memo #5 by Stetson Engineers dated 11/30/11 totaling \$1.9M.
	2. Assumes design, CEQA & geotechnical analysis total cost = \$396,400.
	3. Assumes construction (including contingency, inspection & environmental protection) total cost = \$1,503,600.
	4. Assumes County staff cost = 10% of total cost = \$190,000.
	5. Assumes design & CEQA occurs during FY16/17 and FY17/18 per presentation given to Canon Swim & Racket Club on 1-27-15.
	6. Assumes construction occurs during FY18/19 and FY19/20 per presentation given to Canon Swim & Racket Club on 1-27-15.
Memorial Park Dual-Use Facility	1. Assumes all costs will be as shown in Exhibit B of Grant Agreement with DWR date unknown totaling \$17.4M.
	2. Assumes planning, design & CEQA total cost = \$1,759,000.
	3. Assumes construction total cost = \$15,191,000.
	4. Assumes County staff & Town staff project administration cost = \$422,000.
	5. Assumes land acquisition & permitting total cost = \$69,000.
	6. Assumes planning/design/CEQA occurs from now through Dec. 2017.
	7. Assumes permitting & land acquisition occurs from now through Dec. 2017.
	8. Assumes bid period and construction occurs from Jan. 2018 through June 2019.
PROGRAM	1. Projected costs from 2015/16 FY to 2021/22 FY assume no change in total 2015/16 FY annual staff salaries.
	2. Projected costs from 2015/16 FY to 2021/22 FY assume no change in expected tasks relative to 2014/15 and 2015/16 FY.
	3. Projected costs assume use of interdepartmental labor will not change relative to 2015/16 fiscal year.
	4. Projected Costs for Operation and Maintenance from 2016/17 FY through 2021/22 FY withdrawn each year from the fund reserves for the Program assume same O&M Costs as that projected for 2014/2015 FY. Projected reserves incorporate grant funding reimbursement for Phoenix Lake IRWM Retrofit, Memorial Park Dual-Use Facility, and are assumed to occur within the same fiscal year as expenses eligible for reimbursement. Projected reserves also include Town bridge project reimbursements which are assumed to occur within the same fiscal year as expenses eligible for reimbursement, except for the \$1,000,000 construction /right-of-way expense in FY 2015/16 for Center Boulevard Bridge which is assumed to be 88.53% reimbursable by Town in Fiscal Year 2017/18.
	5. No projected Operations and Maintenance costs for any CIP project is included within budget projections.
	6. Projected revenues assume annual 3% rise in fee amounts each year through FY 2021/22.
OPERATIONS & MAINTENANCE BUDGET	1. Projected costs from 2015/16 FY to 2021/22 FY assume no change in total 2014/15 FY annual staff salaries.
	2. Projected costs from 2015/16 FY to 2021/22 FY assume no change in expected tasks relative to 2014/15.
	3. Operations and Maintenance funds are not shown in these budgets that may be required at completion of individual 10 Year Work Plan projects.