Proposition 84
STORM WATER GRANT PROGRAM - SCOPE OF WORK

Applicant: City of San Marcos **FAAST PIN: 23295**
Project: San Marcos Creek Urban Runoff, Pollutant Abatement, and Stormwater Management Project

This Scope of Work addresses stormwater pollutants and their associated impacts to San Marcos Creek and Lake San Marcos by implementing low-impact development (LID) best management practice (BMP) strategies to achieve natural resource protection, maintain hydrologic function, and improve water quality. Project facilities will be located strategically: north of Discovery Street between Via Vera Cruz and South Bent Avenue, and north of San Marcos Creek between McMahr Road and South Bent Avenue.

The work to be performed by the City of San Marcos is as follows:

1. Direct Project Administration and Management

1.1 Contracting – Negotiate consultant contract for proposed Scope of Work, execute contract, and administer progress.

1.2 Meetings – Conduct Kick-off meeting (set up roles and responsibilities,) Monthly Progress Meetings (18 minimum to report progress and exchange information between City staff, consultants, etc.), and Other Project Meetings (meetings with Task Force, resource/permit agencies, etc. as needed).

1.3 Project Management – Supervise and assure quality assurance/quality control, invoice review and payment, budget management, grant invoicing, and reporting.

2. Project Design and Environmental Compliance

2.1 Design Plans, Specifications and Estimates (PS&E) – Complete design plans, specifications, and estimates (includes revisions per comments) for the following:

2.1.1 LID BMPs (bioretention, biofiltration, and subsurface treatment facilities);

2.1.2 Landscape and Planting (includes permeable pavement walkways, pocket parks, flow-through planters, etc.);

2.1.3 Monitoring Stations (includes 7 total – 2 wet weather, 2 dry weather and 3 biotic integrity stations); and

2.1.4 Public Information/Educational Interpretive Signs – Layout LID graphics and instructive narratives for interpretive signs.

2.2 Environmental Compliance - Incorporate environmental compliance requirements from Mitigation, Monitoring, and Reporting Program (MMRP) into project plans and specifications.

2.3 Permits/Permit Compliance- Coordinate existing permit (Clean Water Act [CWA] Section 401 [Regional Water Quality Control Board], CWA 402 [JURMP], California Public Resources Code Section 1601 [California Dept. of Fish and Game], etc.) condition compliance with resource agencies, prepare Order 2010-0014-DWQ Permit Registration Documents, submit Storm Water Pollution Prevention Plan, and obtain other permits as needed.

2.4 Grant Manager Review – Submit design PS&E to Grant Manager for review and comment.

2.5 Bid Documents– Prepare contractor bids and specifications contract package, advertise, evaluate bid submittals, award contract, and negotiate contract.

2.6 Notice to Proceed - Obtain Notice to Proceed from Grant Manager prior to construction.

3. Construction/Implementation

3.1 Construction Administration – Supervise and administer contractor and work progress to completion.

3.2 Construction – Construction includes two separate work areas that have the same elements of work shown below, but will be constructed on different schedules: 1) north of Discovery Street, south of the San Marcos Creek, and 2) the Promenade, north of the creek.

3.2.1 Site Preparation – Clear/grub site, install temporary water pollution control, grading.

3.2.2 Construct LID BMP facilities and monitoring station access points.

3.2.3 Construct permeable pavement pathways, cobble/rock hardscape, ground cover, and erosion control.

3.2.4 Monitoring Equipment – Install flow-weighted composite monitoring equipment for dry (2) and wet (2) weather water quality monitoring with the Promenade construction to assess permit compliance, measure LID pollutant-removal performance, evaluate seasonal pollutant-removal efficiencies, and assess post-construction hydrograph (meet pre-project hydrology). Install index-of-biotic-integrity (IBI) monitoring locations (3) to record and assess benthic macro-invertebrate (BMI) scores (2 with the Promenade and 1 with Discovery), and assess physical habitat. Test equipment and adjust as needed for proper performance.

3.2.5 Landscaping – Install native drought-tolerant landscaping, ground cover, and post-construction erosion control.

3.2.6 Interpretive Signs – Install public outreach/educational signs.

3.2.7 Photographic Documentation – Conduct pre- and post-implementation photographic documentation in accordance with State guidelines and submit to Grant Manager.

3.3 As-Built Drawings – Prepare as-built drawings and submit to Grant Manager.

4. Monitoring/Performance

4.1 Project Assessment and Evaluation Plan (PAEP) – Prepare PAEP and submit to Grant Manager for approval. Revise per comments and obtain Grant Manager approval. Implement PAEP.

4.2 Monitoring Plan (MP) – Develop MP in accordance with grant and permit requirements. Submit to Grant Manager, obtain approval from Grant Manager and implement MP.

4.3 Quality Assurance Project Plan (QAPP) – Prepare, maintain, and implement QAPP in accordance with the State Water Resource Control Board's (SWRCB) Surface Water Ambient Monitoring Program (SWAMP) QAPP and data reporting requirements and the USEPA QAPP (EPA AQ/R5; March 2001). Submit QAPP to SWRCB or San Diego Regional Water Quality Control Board's (RWQCB) Quality Assurance Officer for review and approval. Revise and obtain approval of QAPP before implementation.

4.4 Dry Weather Monitoring – Conduct dry weather monitoring at bioretention/bioswale facilities to measure and quantify dry weather flow, determine LID bioretention system effectiveness for infiltrating dry weather discharges, and eliminate dry weather discharges to San Marcos Creek.

4.5 IBI Monitoring - Conduct IBI monitoring to document and assess performance, and determine compliance with permit requirements.

4.6 Wet Weather Monitoring - Conduct wet weather monitoring at bioretention/bioswale facilities to measure wet weather flow, quantify influent and effluent pollutant concentrations, determine effectiveness of LID bioretention systems for stormwater runoff pollutant removal, and assess post-construction hydrograph (meet pre-project hydrology).

4.7 Annual San Diego RWQCB Reporting – Prepare and submit annual reports to the San Diego RWQCB. Annual Report will include compliance with reporting requirements, BMP performance assessment, short-term and long-term trend analysis, quantification of water quality improvements, pre-project hydrology compliance assessment, and public behavioral change evaulation.

4.8 SWAMP Integration – Submit monitoring data for integration into SWAMP to supplement State database on BMP pollutant-removal performance.

5. Public Education/Outreach

5.1 Task Force Meetings – Support and interact with Task Force to continue education and outreach with community planners and activists.

5.2 Public Education/Outreach Materials – Prepare materials for public education/outreach, including brochures, flyers, and permanent LID interpretive signs to communicate function, form, and purpose of water quality treatment/management elements.

5.3 Annual/Periodic Public Presentations/Workshops - Hold periodic or annual (at minimum) workshops or public presentations to reach out to the community and communicate project success, realized water quality improvements, change of public behavior, and receive feedback on community acceptance of new amenities.

5.4 Special Event Kiosk/Booth – Provide and attend a kiosk/booth during special city/community events to provide outreach to the general public and increase awareness about the project and LID water quality benefits.

6. Post-Construction Monitoring Report

6.1 Post-Construction Reporting (Draft and Final) – Prepare, submit to the SWRCB, and obtain Grant Manager acceptance of a draft post-construction report that summarizes the activities completed and determines if the goals of the Project have been met. Report will include information collected with the Monitoring and Reporting Plan and assess project effectiveness. Submit to Grant Manager and prepare Final Project Report based on comments and resubmit to Grant Manager.

6.2 Project Summary – Prepare and upload into FAAST a 1-2 page summary of the project highlighting the water quality and environmental benefits (include photographs, maps, etc.).

6.3 Final Project Inspection and Certification – Provide for a final inspection and certification of project completion per Grant Agreement and submit final plans, specifications, and any amendments or modifications to the SWRCB.