

Statement of Qualifications

On-Call Storm Water Treatment Measures and Hydromodification Control Facilities

Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP)

September 6, 2024





Re: On-Call Storm Water Treatment Measures and Hydromodification Control Facilities

Dear Vishakha,

September 9, 2024

Vishakha Atre
SCVURPPP
1021 South Wolfe Road,
Suite 185
Sunnyvale, CA 94086
vatre@eoainc.com

The Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) relies on responsive, high-quality work from firms that see each project’s big picture from the initial concept through construction support. The SCVURPPP is seeking qualified civil engineering firms to design or review proposed stormwater treatment measures and hydromodification control facilities for new development and redevelopment projects and/or to inspect these facilities during installation.

.....
RRM Design Group
325 Davis Street
San Leandro, CA 94577
p: (510) 751-4910
www.rrmdesign.com

With 50 years of experience, RRM Design Group has the staff and experience needed to meet the Agency’s goals. RRM is a multidisciplinary firm that offers licensed professionals in civil engineering, landscape architecture, planning, structural engineering, surveying, and architecture. In addition to traditional public works, parks, and land development engineering, RRM provides design review and third-party construction observation services to public agencies and private developers.

RRM is experienced in:

- NPDES permit requirements throughout California and is currently designing Bay Area projects in accordance with current C.3 design guidance—several of these projects include multiple water treatment and hydromodification elements. Our other projects throughout the Central Coast and Southern California also comply with their respective regional stormwater regulations.
- Blending LID elements, interceptor tree credits, self-retaining, and self-treating areas into a project for C.3 compliance.
- Analyzing and designing our stormwater and storm drain infrastructure in compliance with local hydrologic and hydraulic standards.

Statement of Qualifications

RRM Design Group

We have included resumes of the proposed team of civil engineers and their certifications, as well as projects that demonstrate our experience and knowledge regarding stormwater design and compliance. We confirm the only change in the qualifications of our main is the addition of a civil engineer, Cordland Maszk, to the team.

RRM understands the importance of designing, reviewing, assessing, and inspecting within a set schedule and budget. Our work experience with developers, contractors, and agencies allows us to see the big picture and the positive impact of our work. Our 209 employees and 7 offices work cohesively and become an extension of your staff. Darren Choy will serve as the primary point of contact for this project; please contact him at (510) 751-4910 ext. 318 or via email at dmchoy@rrmdesign.com

Thank you for the opportunity to submit this RFQ, and we look forward to discussing your needs and projects with you.

Sincerely,

RRM Design Group

Darren Choy, PE, ENV SP
Project Manager + Authorized Contact
(dmchoy@rrmdesign.com)

Robert Camacho, PE, QSD
Principal-In-Charge (rcamacho@rrmdesign.com)

SOQ FOR SCVURPPP ON-CALL STORM WATER TREATMENT MEASURES
AND HYDROMODIFICATION CONTROL FACILITIES

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Graphics & Photographs:

This document features images of RRM Design Group and its subconsultant partners' projects, the graphics and photos of which are owned and copyrighted by our respective firms. Some images may be modified due to privacy concerns.

About RRM Design Group:

*325 Davis St. • San Leandro, CA 94577 • (510) 751-4910 • rrmdesign.com • A California corporation • Leonard Grant, Architect C26973
• Robert Camacho, PE 76597 • Steven Webster, LS 7561 • Jeff Ferber, PLA 2844*

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Bioretention Plantings



Bioretention Pond

Pictured: San Lorenzo Park Stormwater Infiltration, San Lorenzo, CA



Section One: About RRM

SOQ For On-Call Storm Water Treatment Measures and Hydromodification Control Facilities

RRM Design Group Firm Profile

It's our hope to be known as a friendly design firm with accessible and collaborative professionals

All of us at RRM thrive on our passion for crafting enjoyable environments, a commitment that has fueled our success for fifty years. From the inception of our journey to our current flourishing state, our team of architects, landscape architects, engineers, surveyors, and planners collaborates closely with clients to shape our communities. Whether the project is public or private, commercial or residential, we excel in attentive listening, thoughtful design, and timely, budget-conscious delivery—values we've upheld since our establishment in 1974.

What it's like to work with us

We feel that this client quote sums up the experience of working with RRM: ***"RRM was equally attentive and responsive to issues both large and small, real and imagined. I was consistently impressed with their calm, informed manner and attention to details."***



50
Years

*In Business
in California*

3,600+

*projects completed
in California over
the past two
decades*

37

*California Licensed
Landscape
Architects and
Designers*

89%

** of our clients would
recommend RRM,
which is significantly
above the industry
average of 74%*



* Per RRM survey sent out to clients annually

RRM by the Numbers

7 Offices

*Our headquarters are
located at:*

*3765 South Higuera St.,
Ste. 102 in
San Luis Obispo, CA 93401
p: (805) 543-1794*

*Additional offices in: San Diego,
San Juan Capistrano, San Leandro,
Santa Barbara, Seattle, and Ventura*

209 Employees in 6 Disciplines

- Architects
- Civil Engineers
- Landscape Architects
- Planners & Urban Designers
- Structural Engineers
- Surveyors

100% Employee- Owned Firm

*RRM Design Group is a California
corporation and a 100%
employee-owned company (ESOP),
incorporated November 26, 1974*

Firm's Qualifications

Why RRM is a good fit for the SCVURPPP

Multidiscipline Advantage

Our firm stands out for its unique blend of talented civil engineers, landscape architects, planners, and architects who collaborate seamlessly to develop high-performance solutions. This integrated approach ensures that our designs are rigorously reviewed from multiple perspectives, producing innovative, sustainable outcomes that align with both regulatory requirements and environmental goals.

Diversity of Experience

RRM is well-versed in addressing complex engineering challenges related to water management and infrastructure. Our team has experience designing stormwater treatment measures, hydromodification control facilities, and green infrastructure solutions for both new developments and redevelopments. From large-scale urban projects to site-specific stormwater upgrades, we have successfully implemented systems that manage runoff, protect waterways, and meet regulatory standards. This makes us an ideal “on-call” consultant for various agencies within the SCVURPPP’s permitted sphere of influence—if you have a need, we’ve likely encountered and solved it before.

Public Space Civil Engineers

Our team of licensed civil engineers specializes in the planning, design, and inspection of stormwater control facilities, hydromodification systems, and sustainable drainage solutions. We have worked on numerous projects where stormwater management, erosion control, and flood mitigation were critical components. Our focus is on integrating these systems efficiently into the urban fabric, ensuring not just compliance but long-term functionality and resilience. The key to the success of these design solutions is the ultimate effective construction and inspection of the facilities that we design.

Sustainability Runs Through Our Veins

Sustainability is a core value in our practice. Our staff includes LEED, ENV-SP, and SITES-accredited professionals who prioritize green infrastructure and low-impact development (LID) strategies. Whether through permeable pavements, bioretention systems, or water reuse technologies, we strive to design solutions that conserve resources and enhance environmental quality. By incorporating these principles, we help our clients set the benchmark for sustainable urban development and water conservation.

Public Agency Experience

The following is a partial list of public agency clients that RRM has worked with in the present and past:

- City of Anaheim*
- City of Antioch
- City of Berkeley*
- City of Brentwood
- City of Capitola
- City of Cloverdale
- City of Dublin*
- City of Folsom
- City of Fresno
- Land Trust of Santa Cruz County
- Livermore Area Recreation & Park District*
- City of Long Beach*
- City of Los Angeles
- City of San Carlos
- City of San Diego*
- City of San Jose*
- City of San Luis Obispo*
- City of San Mateo*
- City of Santa Barbara
- City of Santa Clara
- City of Santa Cruz*
- City of Santa Rosa
- City of South San Francisco*
- City of Suisun City
- City of Ukiah
- City of Walnut Creek
- Conejo Recreation & Park District
- County of Los Angeles
- County of Marin
- County of San Diego*
- County of San Luis Obispo
- County of Santa Barbara
- County of Santa Clara*
- County of Santa Cruz
- County of Sonoma
- Hayward Area Recreation & Park District*

**current on-call contracts*



Pictured: Surfer's Point Managed Shoreline Retreat, Ventura, CA



Section Two: Our Team

SOQ For On-Call Storm Ater Treatment Measures and Hydromodification Control Facilities

SCVURPPP

RRM Design Group



Robert Camacho
PE, QSD
Principal-in-Charge



Darren Choy
PE, ENV SP
Project Manager + Main Point of Contact



Noah Walters
PE
Project Engineer



Ricky Gomez
Civil Engineer



Cordlan Maszk
Engineer II

*More Than 30 Additional
Firmwide RRM Design Group
Engineering Personnel*



Stormwater Diversion



Robert Camacho | PE, QSD

Project Role: Principal-in-Charge/Managing Partner



Creating Environments People Enjoy®

“Be open-minded. There’s always more than one way to do a project, and some are more efficient than others.” - Robert

Civil Engineer with 19 years of experience

Education

- Bachelor of Science, BioResource and Agricultural Engineering, California Polytechnic State University, San Luis Obispo, CA

Licenses and more

- Professional Engineer, CA, 76597
- American Society of Civil Engineers (ASCE), 2010-present
- American Public Works Association (APWA), 2010-present

A dedicated Principal of the firm

As Managing Partner at RRM Design Group, Robert Camacho brings nearly twenty years of specialized experience to the firm’s engineering department. From residential and commercial sites to educational facilities, Robert’s projects range in size and type. His diverse experience includes site grading and utility design as well as roadway and flood control engineering. With sustainability and affordability in mind, his projects often include elements of low-impact and accessible design. Both an experienced engineer and leader at RRM, Robert brings extensive expertise to each project he works on.

Featured project experience

- Amador Valley High School Varsity Football Field, Pleasanton
- Anaheim On-Call Traffic Plan Check, Anaheim
- Angels Creek Master Plan and Trail Plan, Angels Camp
- Cheeseboro Canyon Trailhead, Agoura Hills
- Dublin Sports Grounds Master Plan, Dublin
- Estero Park, Isla Vista
- Fairmont Terrace Park Construction Documents, Hayward
- Foothill High School JV Baseball Field, Pleasanton
- Foothill High School Varsity Football Field, Pleasanton
- Harbor Terrace Development, Avila Beach
- Livermore Downtown Core Landscape Concept and Stockmen’s Park, Livermore
- Merced Community Sports Park, Merced
- Mia’s Dream Come True Playground, Hayward
- Olympus Park Design (formerly Standard Pacific Park), Encinitas
- Pinnacles National Park West Side - LEED Platinum, Paicines
- Ramona Garden Park Master Plan (CIP), Grover Beach
- Redwood City Downtown Parks and Bay Connectivity, Redwood City
- Righetti Ranch Neighborhood Park, San Luis Obispo
- Righetti Ranch Parks, San Luis Obispo
- Salinas Fire Stations No.1-6 Renovation, Salinas
- San Lorenzo Community Park Construction Documents, San Lorenzo
- San Pablo Park Improvements, Berkeley
- Santa Barbara Island Park & West Side Monument (aka Channel Islands), Oxnard
- Santa Fe Bike Trail Connection, Visalia
- Surfer’s Point Managed Shoreline Retreat, Ventura

Up Next: Robert’s Certifications

Robert's Certifications



BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

LICENSING DETAILS FOR: 76597

NAME: CAMACHO, ROBERT ANTHONY
LICENSE TYPE: CIVIL ENGINEER
LICENSE STATUS: CLEAR

ADDRESS
 2431 MONTCLAIR PL
 ARROYO GRANDE CA 93420
 SAN LUIS OBISPO COUNTY
 MAP

ISSUANCE DATE
 JULY 16, 2010
EXPIRATION DATE
 DECEMBER 31, 2024
CURRENT DATE / TIME
 AUGUST 20, 2024
 2:54:23 PM

CBPELSG - QSD		
Please enter information below to search		
Please enter information		
Last Name:	Camacho	
First Name:	Robert	
<input type="button" value="Search for Existing Records"/> <input type="button" value="Create New Record"/>		
First Name	Last Name	Address
Robert	Camacho	3765 South Higuera St Suite 102 San Luis Obispo Ca 93401

CBPELSG License No.	QSD Certificate No.
76597	C76597





Darren Choy | PE, ENV SP

Project Role: Project Manager/Main Point of Contact



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“I like the tangibility of the projects that we create. Seeing projects go from concept to design to constructed product is what drives me as a civil engineer.” - Darren

Civil Engineer with 16 years of experience

Education

- Bachelor of Science, Civil Engineering, University of California, Irvine, CA
- Minor, Business Management, University of California, Irvine, CA

Licenses and more

- Professional Engineer, CA, 82708
- American Council of Engineering Companies - Bay Bridge Chapter, President, 2017-2023
- American Public Works Association Northern California, Member, 2018
- Conference Committee, 2018-present
- Career Village, Volunteer Mentor, 2017-present

A dedicated manager of engineering services

With over a decade of experience in civil engineering and design, Darren Choy brings an all-encompassing lens to each of his projects. His multidisciplinary approach fosters a collaborative space for both his team and his client. Specializing in land development and public works engineering, Darren’s projects include recreational parks, public plazas, streetscapes, and stormwater development. From quality control and community engagement to business and staff management, his wide view of engineering and design serves as an asset to all who work with him. A diligent leader and team-player, Darren’s commitment to excellence is reflected in each of his projects.

Featured project experience

- Ken Mercer Sports Park Skate Park, Pleasanton
- Grove Park Field and Playground Renovations, Berkeley
- San Pablo Park Improvements, Berkeley
- 27 Acre Park, 11 Acre Park, Regency Heritage Park, Wildomar
- Columbus Park Soccer Facility Design, San Jose
- Contra Loma Estates Park Renovation, Antioch
- Crocker Park Recreational Trail Master Plan, Brisbane
- Escondido Creek Trail Expansion and Renovation Design, Escondido
- Ken Mercer Sports Park Skate Park, Pleasanton
- Livermore Downtown Core Landscape Concept and Stockmen’s Park, Livermore
- Memorial Park Design Refinement, San Leandro
- Mia’s Dream Come True Playground, Hayward
- Pleasanton All-Abilities Playground
- Redwood City Downtown Parks and Bay Connectivity
- Santa Cruz Rail Trail Segment 7
- Shell Beach Elementary School Parking Lot, Shell Beach

Up Next: Darren’s Certifications

Darren's Certifications



BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

LICENSING DETAILS FOR: 82708

NAME: CHOY, DARREN
LICENSE TYPE: CIVIL ENGINEER
LICENSE STATUS: CLEAR

ADDRESS
 325 DAVIS ST
 SAN LEANDRO CA 94577
 ALAMEDA COUNTY
 MAP

ISSUANCE DATE
 MAY 22, 2014
EXPIRATION DATE
 SEPTEMBER 30, 2020
CURRENT DATE / TIME
 AUGUST 20, 2024
 2:8:23 PM





Noah Walters | PE

Project Role: Project Engineer



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“As an engineer, you can never stop learning; you have to constantly look at the contemporary edge and really analyze how to make it better” - Noah

Civil Engineer with 13 years of experience

Education

- Bachelor of Science, Civil Engineering, California State University, Northridge, CA

Licenses and more

- Professional Engineer, CA, 90156
- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)

A dedicated project manager

As both a lifelong artist and second-generation engineer, Noah has a passion for residential, parks, and community development. He excels at team coordination and organization which aid his role as a project manager. Noah loves finding creative solutions for projects, and has a particular affinity for stormwater and grading solutions. He has done work for a variety of different agencies throughout California while calling Irvine home. Noah is an active member of RRM’s Professional Practice and Technology committee, the AutoCAD community, and RRM’s Technical Systems User Group.

Featured project experience

- 27 Acre Park, 11 Acre Park, Regency Heritage Park, Wildomar
- Bandini Canyon Trail Construction Documents, San Pedro
- Chumash Park Master Plan, Simi Valley
- Cienaga Street Community Health Center, Oceano
- Dana Reserve Specific Plan, Nipomo
- Eagle Ranch Specific Plan/VTM/GPA/LAFCO, Atascadero
- Escondido Creek Trail Expansion and Renovation Design, Escondido
- Fairmont Terrace Park Construction Documents, Hayward
- Froom Ranch Specific Plan, San Luis Obispo
- Humbert Street Multi-Family Residential, San Luis Obispo
- Laetitia Vineyard Ag Clustering, Arroyo Grande
- Mia’s Dream Come True Playground, Hayward
- Morro Bay Harborwalk, Morro Bay
- Oceano Elementary School Site Improvements, Oceano
- Port San Luis Coastal Gateway Project, Avila Beach
- River Oaks II Phases 1 and 2 Civil Engineering (2017), Paso Robles
- San Luis Obispo High School Design-Build, San Luis Obispo
- Santa Ana River Bike Trail, Riverside
- Shell Beach Elementary New Multipurpose Room, Pismo Beach
- Shell Beach Elementary School Parking Lot, Shell Beach
- Sinsheimer Park Playground, San Luis Obispo
- Sweetwater Summit Campground, Bonita
- Whittier Greenway Trail East, Whittier

Up Next: Noah’s Certifications

Noah's Certifications




BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

LICENSING DETAILS FOR: 90156

NAME: WALTERS, NOAH GORDON

LICENSE TYPE: CIVIL ENGINEER

LICENSE STATUS: CLEAR 

ADDRESS

2748 INDIANO CIR
MORRO BAY CA 94442
SAN LUIS OBISPO COUNTY
[MAP](#)

ISSUANCE DATE

APRIL 26, 2019

EXPIRATION DATE

SEPTEMBER 30, 2025

CURRENT DATE / TIME

AUGUST 29, 2024
2:7:40 PM



Ricky Gomez | EIT

Project Role: Civil Engineer

A dedicated design engineer

Ricardo is a design engineer with over 15 years of experience in residential, education and recreation. He comes from a construction background and is well equipped to handle construction administration tasks, storm water inspections and construction inspections. Ricardo is a great team player and always has a positive attitude.

Featured project experience

- Bellevue Santa Fe Charter School Modernization and New Construction, San Luis Obispo
- Bishop's Peak Elementary New Multipurpose Room, San Luis Obispo
- Bishop's Peak Elementary Office Remodel, San Luis Obispo
- Bradley Park Renovation, San Marcos
- Branch Elementary School Four Classrooms, Arroyo Grande
- C.L. Smith Elementary Office Expansion, San Luis Obispo
- C.L. Smith Elementary School Kindergarten Modular, San Luis Obispo
- Cal Poly Technology Park Site Programming, San Luis Obispo
- Cheng Park Revitalization, San Luis Obispo
- Cienaga Street Community Health Center, Oceano
- Dana Reserve Specific Plan, Nipomo
- Dublin Sports Grounds Master Plan, Dublin
- Eagle Ranch Specific Plan/VTM/GPA/LAFCO, Atascadero
- Earthwood Lane Lots 6 and 7 Commercial Development, San Luis Obispo
- Froom Ranch Specific Plan, San Luis Obispo
- Harbor Terrace Development, Avila Beach
- Laetitia Vineyard Ag Clustering, Arroyo Grande
- Morro Bay High School Design-Build, Morro Bay
- Oceano Elementary School Infrastructure Rehabilitation, Oceano
- Oceano Elementary School Site Improvements, Oceano
- Pacific Beach High School Campus Replacement, San Luis Obispo
- Paso Robles Joint Unified School District Athletic Fields, Paso Robles
- Promega Biosciences Office and Lab Modifications Phase III, San Luis Obispo
- Righetti Ranch Neighborhood Park, San Luis Obispo
- San Luis Obispo High School Design-Build, San Luis Obispo
- Shell Beach Elementary School Parking Lot, Shell Beach
- Sunset Park Playground, Livermore



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Engineer with 16 years of experience

Education

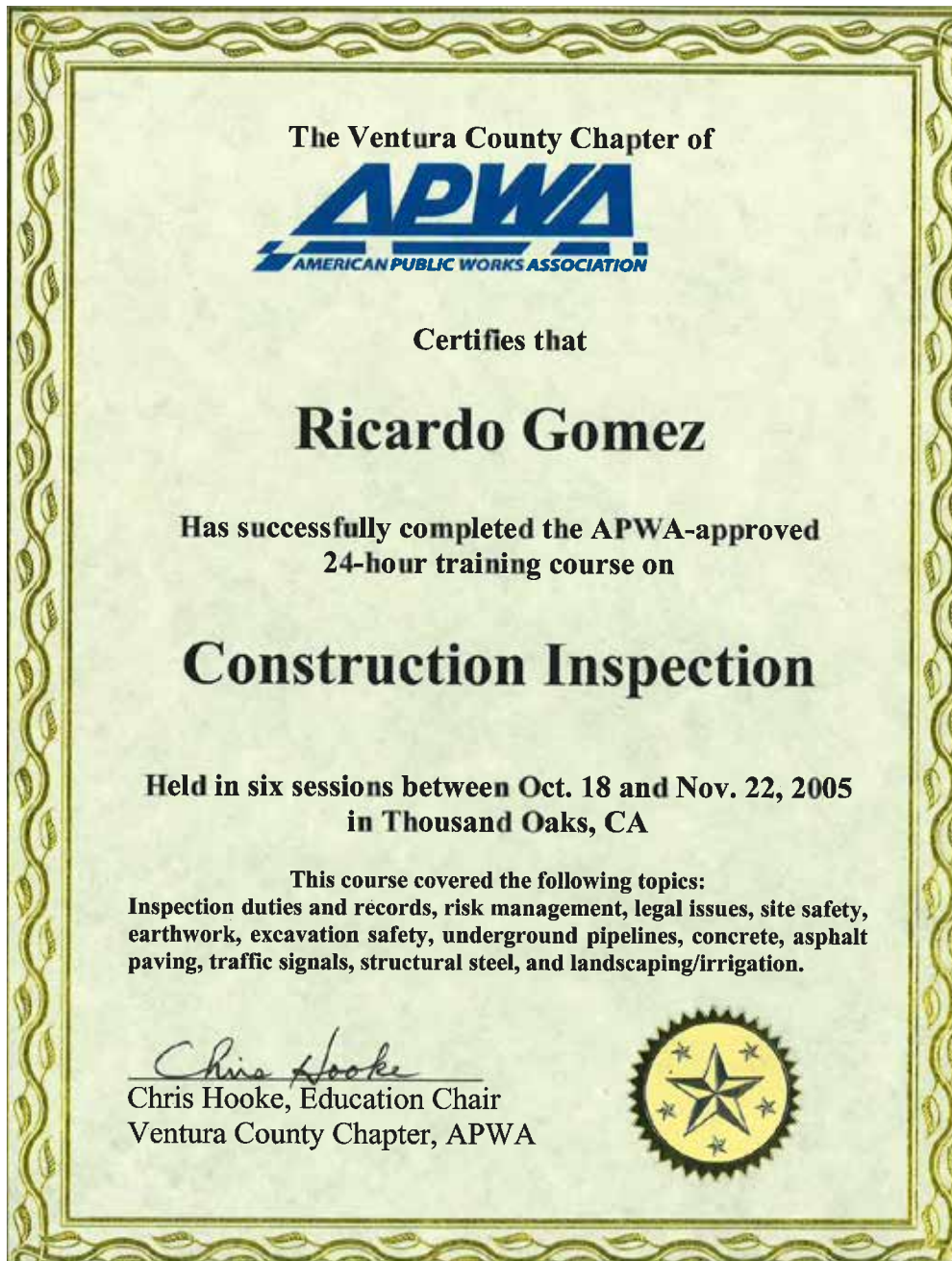
- Bachelor of Science, Civil Engineering, California State University Los Angeles, CA

Licenses and more

- Engineer In Training, CA, 127913

Up Next: Ricky's Certifications

Ricky's Certifications





Cordlan Maszk

Project Role: Engineer II



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Environments
People
Enjoy®

Engineer with 5 years of experience

Education

- Bachelor of Science, Environmental Engineering, San Diego State University, San Diego, CA
- Minor, Finance, San Diego State University, San Diego

Licenses and more

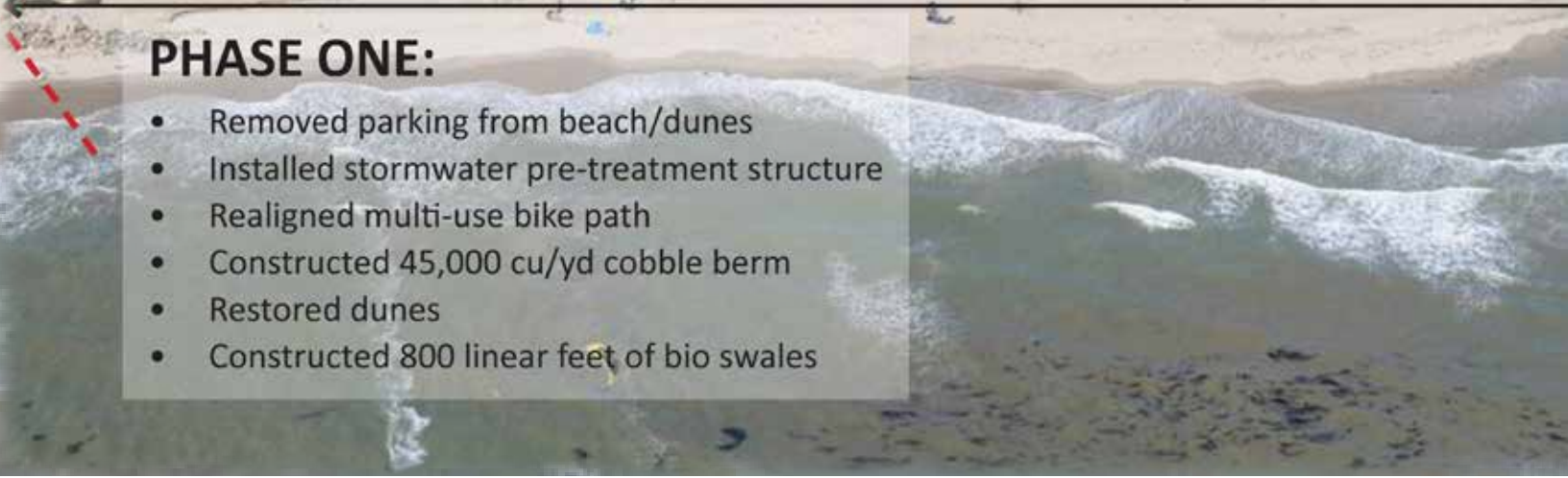
- Engineer In Training, CA, 171918

A dedicated engineer

With just over 5 years of professional experience in the workforce, Cordlan has a background of both public and private industry. Over those three years, he has developed skills for site grading, utility design, stormwater control, and floodplain management. Cordlan has provided services for projects that span from commercial and residential, to capital improvement, asset management, and federal flood control facilities. He spends most of his spare time in the outdoors which drives his passion for developing unique spaces that allow all members of the community to benefit from outdoor areas while preserving and protecting the natural environment.

Featured project experience

- 27 Acre Park, 11 Acre Park, Regency Heritage Park, Santa Barbara
- 600 Tank Farm Road Tract Improvements, San Luis Obispo
- Country Hills Final Storm Drain Design and Easement Preparation, San Juan Capistrano
- Dairy Creek Campground, San Luis Obispo
- Escondido Creek Trail Expansion and Renovation Design
- Froom Ranch Specific Plan (FRSP) Backbone Improvements, San Luis Obispo
- Historic Ranch Site Plan Implementation, San Jose
- Irvine Car Wash Design and Construction Documents
- La Mirada Creek Park
- La Palma Green Promenade and Paseo, Anaheim
- Marilla Drive Entitlement Services, Lakeside
- Mission Vineyard - Subdivision Update, San Miguel
- Moss Landing Industrial Park Entitlements – Replacement Buildings
- Mt. Madonna Valley View Campgrounds Improvements, Watsonville
- Neff Park Improvements, La Mirada
- Oakland Self-Storage Construction Documents
- Prologis Chino-Edison Distribution Center Building Demo and Construction, Chino
- San Luis Ranch Lot 9 Office Building Entitlements, San Luis Obispo
- Santa Cruz Rail Trail Segments 8 and 9
- Seaside Fire Station No. 2
- Son of Triangle Orange Senior Housing, Orange
- Tennyson Park Renovation VE Construction Documents, Hayward



PHASE ONE:

- Removed parking from beach/dunes
- Installed stormwater pre-treatment structure
- Realigned multi-use bike path
- Constructed 45,000 cu/yd cobble berm
- Restored dunes
- Constructed 800 linear feet of bio swales

Pictured: Surfer's Point, Ventura, CA



Section Three: Understanding

SOQ For On-Call Storm Ater Treatment Measures and Hydromodification Control Facilities



Understanding

Urban stormwater management practices, issues, and requirements, including LID requirements

RRM has successfully designed projects that integrate stormwater-compliant features throughout California, in accordance with the local Regional Water Quality Control Board (RWQCB) mandate to enforce the San Francisco Bay Municipal Regional Stormwater National Pollutant Discharge Elimination System (NPDES) Permit.

Locally, the San Francisco Bay RWQCB's regional permit is found online: http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stormwater/mrp.shtml. The various Bay Area Cities and Counties have formed multiple programs to implement their interpretation of these requirements:

- The Cities of Alameda, Albany, Berkeley, Dublin, Emeryville, Fremont, Hayward, Livermore, Newark, Oakland, Piedmont, Pleasanton, San Leandro, Union City, Alameda County, the Alameda County Flood Control and Water Conservation District, and Zone 7 of the Alameda County Flood Control and Water Conservation District, which have joined together to form the Alameda County-wide Clean Water Program
- The Cities of Clayton, Concord, El Cerrito, Hercules, Lafayette, Martinez, Orinda, Pinole, Pittsburg, Pleasant Hill, Richmond, San Pablo, San Ramon, and Walnut Creek, the towns of Danville and Moraga, Contra Costa County, and the Contra Costa County Flood Control and Water Conservation District, which have joined together to form the Contra Costa Clean Water Program
- The Cities of Campbell, Cupertino, Los Altos, Milpitas, Monte Sereno, Mountain View, Palo Alto, San Jose, Santa Clara, Saratoga, and Sunnyvale, the Towns of Los Altos Hills and Los Gatos, the Santa Clara Valley Water District, and Santa Clara County, which have joined together to form the Santa Clara Valley Urban Runoff Pollution Prevention Program

- The Cities of Belmont, Brisbane, Burlingame, Daly City, East Palo Alto, Foster City, Half Moon Bay, Menlo Park, Millbrae, Pacifica, Redwood City, San Bruno, San Carlos, San Mateo, and South San Francisco, the Towns of Atherton, Colma, Hillsborough, Portola Valley, and Woodside, the San Mateo County Flood Control District, and San Mateo County, which have joined together to form the San Mateo County-wide Water Pollution Prevention Program
- The Cities of Fairfield and Suisun City have joined to form the Fairfield-Suisun Urban Runoff Management Program.
- The City of Vallejo and the Vallejo Flood and Waste Water District

The RWQCB has the authority to enforce the regional permit and is the ultimate interpreter of how it should be implemented. Through the Clean Water Act (CWA), NPDES permits are required for stormwater discharges from municipal separate storm sewers (MS4s), industrial, construction, and other stormwater discharges. Each City or County is responsible for enforcing the regional permit through the abovementioned programs. Some agencies elect to use 3rd party reviewers to confirm project compliance with the regional permit.

RRM is qualified for this plan checker role and has worked with agencies' 3rd party stormwater reviewers to get projects approved. Provision C.3 addresses source control, site design, and treatment measures in development and redevelopment projects. Low Impact Development (LID) and green infrastructure elements are prescribed to address stormwater runoff treatment and flow reduction before discharging to water bodies. LID features reduce runoff and mimic predevelopment conditions by using pervious materials, then infiltrating, detaining, and treating stormwater runoff on-site. Landscaping features are predominately used for LID as they provide functional and aesthetic uses for most projects. Examples of LID include bioretention basins, permeable pavement/pavers, green roofs, rain gardens, infiltration trenches, flow-through planters/tree boxes, rain barrels, and underground storage facilities. Each City and County typically has a stormwater guidance manual that specifies project applicability, exemptions, credits, and design criteria for LID and other stormwater management measures. SCVURPPP's guidance document is found online at <https://scvurppp.org/>. Flow, volume, and combination flow-volume treatment measures are used to design stormwater treatment measures:

- **Volume-Based Treatment Measures**
 - Facilities whose primary mode of action depends on volume capacity shall be designed to treat stormwater runoff equal to
 - *The maximized stormwater capture volume for the area, based on historical rainfall*
 - *Approximately the 85th percentile hourly rainfall intensity, or the volume of annual runoff required to achieve 80 percent or more capture*
- **Flow-Based Treatment Measures**
 - Facilities whose primary mode of action depends on flow capacity shall be sized to treat 10% of the 50-year peak flow rate
 - *Runoff produced by a rain event equal to at least two times the 85th percentile hourly rainfall intensity for the applicable area*
 - *Runoff resulting from a rain event equal with an intensity of 0.2 inches per hour*

- **Combination Flow and Volume-Based Treatment Measures Basis**
 - Facilities that use a flow and volume capacity combination shall be sized to treat at least 80 percent of the total runoff over the project's life.

Appendix B of the SCVURPPP C.3 Stormwater Handbook contains worksheets that allow users to size these treatment measures. When groundwater and geotechnical conditions make infiltration infeasible, bioretention basins (combination flow and volume-based treatment measures) are among the most common choices for developers to implement on-site. They treat runoff through engineered soil media and vegetation, store this treated runoff in a gravel layer, and then discharge it into the storm drain system.

Projects must reach certain quantitative and qualitative thresholds for C.3 applicability, described as follows:- Projects that create and/or replace 10,000 square feet or more of impervious surface must comply with Provision C.3. These include the construction of new roads (and associated bike lanes and sidewalks) and the widening of existing roads with additional travel lanes.

Projects involving Special Land Use Categories, including uncovered parking areas (standalone or part of another use), restaurants, auto service facilities, and retail gasoline outlets that create and replace 5,000 square feet of impervious surface, must comply with Provision C.3.

Projects that create and replace one acre or more of an impervious surface may need to comply with the hydromodification management requirements of Provision C.3.g. There are specific exclusions, redevelopment thresholds (50% Rule), special projects that are further defined in the SCVURPPP C.3 Stormwater Handbook. Non-regulated/non-applicable C.3 projects are encouraged to include source control measures in their projects such as:

- Storm drain stenciling
- Landscaping that minimizes irrigation and runoff promotes surface infiltration where possible, reduces the use of pesticides and fertilizers, and incorporates appropriate sustainable landscaping practices and programs such as Bay-Friendly Landscaping.
- Appropriate covers, drains, and storage precautions for outdoor material storage areas, loading docks, repair/maintenance bays, and fueling areas
- Covered trash, food waste, and compactor enclosures
- Plumbing certain discharges to sanitary sewer systems in accordance with local guidelines

Continuous simulation of hydrologic models and analysis of output data for use in the design of hydromodification control measures

The change in the timing, peak discharge, and runoff volume from a site due to land development is known as "hydrograph modification" or "hydromodification." When a site is developed, some rainwater can no longer infiltrate the soils, so it flows off-site at faster rates and more significant volumes, generally in a shorter time. As a result, erosive flow levels occur more frequently and for extended periods in creeks and channels downstream of the project. Hydromodification Management (HM) Projects are C.3 regulated projects that create and replace one acre or more of impervious surface, increase impervious surface over pre-project conditions, and are located in a susceptible area (as shown on HM applicability maps). Hydromodification requirements are met by sizing flow control elements such that the post-project stormwater discharge rates

and durations match pre-project discharge rates and durations from 10 percent of the pre-project 2-year peak flow up to the pre-project 10-year peak flow. Bay Area Hydrology Model (BAHM) software is an acceptable method of analyzing and meeting the criteria for HM Projects. BAHM is available for download at <http://www.clearcreeksolutions.com>

On-site third-party inspections of installed stormwater treatment measures

RRM has designed multiple projects that are now constructed with stormwater treatment facilities (via Stormwater Management Plans). Our staff has field observed and documented these stormwater facilities through design services and construction scope tasks. Our QSP/QSD-certified staff has also prepared Storm Water Pollution Prevention Plans (SWPPPs) and performed inspections on construction BMPs during the rainy seasons. RRM has qualified staff to field inspect temporary and post-construction stormwater treatment facilities for compliance with approved SWPPPs and Stormwater Management Plans, respectively.



San Lorenzo Park Storm Drainage Pump Station



Pictured: Hermosa Beach Pier Avenue Streetscape, Hermosa Beach, CA



Section Four: **Project Experience**

SOQ For On-Call Storm Water Treatment Measures and Hydromodification Control Facilities

La Mirada Creek Park

Client: City of La Mirada



Naturalizing La Mirada Creek

RRM Design Group was selected by the City of La Mirada to develop a community driven master plan for Creek Park. The park hugs the banks of La Mirada Creek and has been a community favorite since it opened in the late 1960's. The master planning effort involves naturalizing La Mirada Creek, renovating the park's mile-long trail loop system, adding active exercise zones, and creating new spaces for community events. RRM's team of in-house landscape architects, civil engineers, architects and surveyors is leading a robust community outreach and social media campaign, and providing park master planning, design development, earthwork, channel grading, and surveying services. Looking forward toward implementation, RRM is also providing grant research and application preparation services to the City.

RRM Teams Involved

*Landscape Architecture,
Civil Engineering, Surveying*

Key Features & Elements

- *Renovating the mile-long trail loop system*
- *Active exercise zones*
- *Spaces for community events*
- *Timeline: 2017-Present*
- *Size: 15.2 Acres*

Reference

*Eric Villagracia, Project Manager
City of La Mirada
15515 Phoebe Avenue, La Mirada, CA 90638
P: (562) 943-0131
E: evillagracia@cityoflamirada.org*

Tennyson Park

Client: Hayward Area Recreation & Park District



A Community Hub in South Hayward

In the heart of Hayward, a vibrant new park is taking shape, designed to serve the diverse needs of the community. RRM Design Group crafted an exciting 10-acre master plan through six dynamic public engagement opportunities, including specialized workshops and creative outreach strategies. Highlights included a pop-up workshop at a community food pantry and the “Reach for a Better Community” design charrette, which generated over 25 innovative concepts. The improvements for the park include a new picnic area with a shade structure, a flexible-use lawn, a pump track, skate park upgrades, a full-size natural grass multi-sport field, a full basketball court, and “Bankshot Basketball,” a fully inclusive game. Additional improvements feature a maintenance building and a permeable concrete parking lot. Construction broke ground in June 2024 and the park is anticipated to open in summer 2025, paving the way for a space that truly reflects the community’s vision and needs.

RRM Teams Involved

Landscape Architecture, Civil Engineering, Structural Engineering

Key Features & Elements

- Extensive public engagement
- Innovative Outreach events
- Community-driven design
- Inclusive and vibrant vision
- Timeline: 2019-Present
- Size: 10 Acres

Reference

Meghan Tiernan, Capital Planning and Development Director
Hayward Area Recreation and Park District (HARD)
1099 E Street, Hayward, CA 94541
P: (510) 881-6716
E: tiem@haywardrec.org

Mia's Dream Come True Playground

Client: Hayward Area Recreation & Park District



Inspiring and Inclusive

Inspired by Mia Vasquez, a local girl with a rare disability, Mia's Dream Come True Playground emerged from her father's vision to address an unmet need within the East San Francisco Bay Area. RRM Design Group translated his napkin sketch into a vibrant reality. This all-abilities playground redefines play, intertwining accessible features and sensory experiences within a landscape that pays homage to Mia's favorite places around Hayward. From the Bay Bridge to the "Hayward-Loop," each detail fosters inclusion and connection, shaping a space where every child's imagination can soar.

RRM Teams Involved

Landscape Architecture, Civil Engineering, Structural Engineering

Key Features & Elements

- Playground
- Artwork/Public Art
- Picnic area and restrooms
- Timeline: 2017-2020
- Size: 1.5 acres

Reference

*Marvin Yee, Senior Bon Project Manager
Hayward Area Recreation and Park District (HARD)
1099 E Street, Hayward, CA 94541
P: (510) 881-6713
E: yeem@haywardrec.org*

San Lorenzo Community Park

Client: Hayward Area Recreation and Park District (HARD)



2018 Merit Award
ASLA Southern
California



Duck Pond Park

San Lorenzo Park, affectionately known as Duck Pond Park since the 1960s, had seen its 3-acre dilapidated pond and geese take over. In partnership with the Hayward Area Recreation District, RRM has been working on a major renovation which has turned the park back over to the community. Through extensive community outreach and design, the park now features new sports fields, a basketball court, playgrounds, a dog park, walking loops, and a soon to be renovated community center. At the request of residents it also includes a new 1-acre pond, designed as its own ecosystem which benefits both wildlife and people. It features diverse flora and fauna, a boardwalk with viewing platforms, and a stormwater filtration system that irrigates the sports fields. Exciting play features, such as a zipline, embankment slide, and an eight-foot-tall climbing rock shaped like a mama bear and her cub, continue to draw visitors. From the top of the rock, you can enjoy stunning views of the adjacent bay and the sprawling 32-acres park.

RRM Teams Involved

Landscape Architecture, Civil Engineering,
Structural Engineering, Surveying

Key Features & Elements

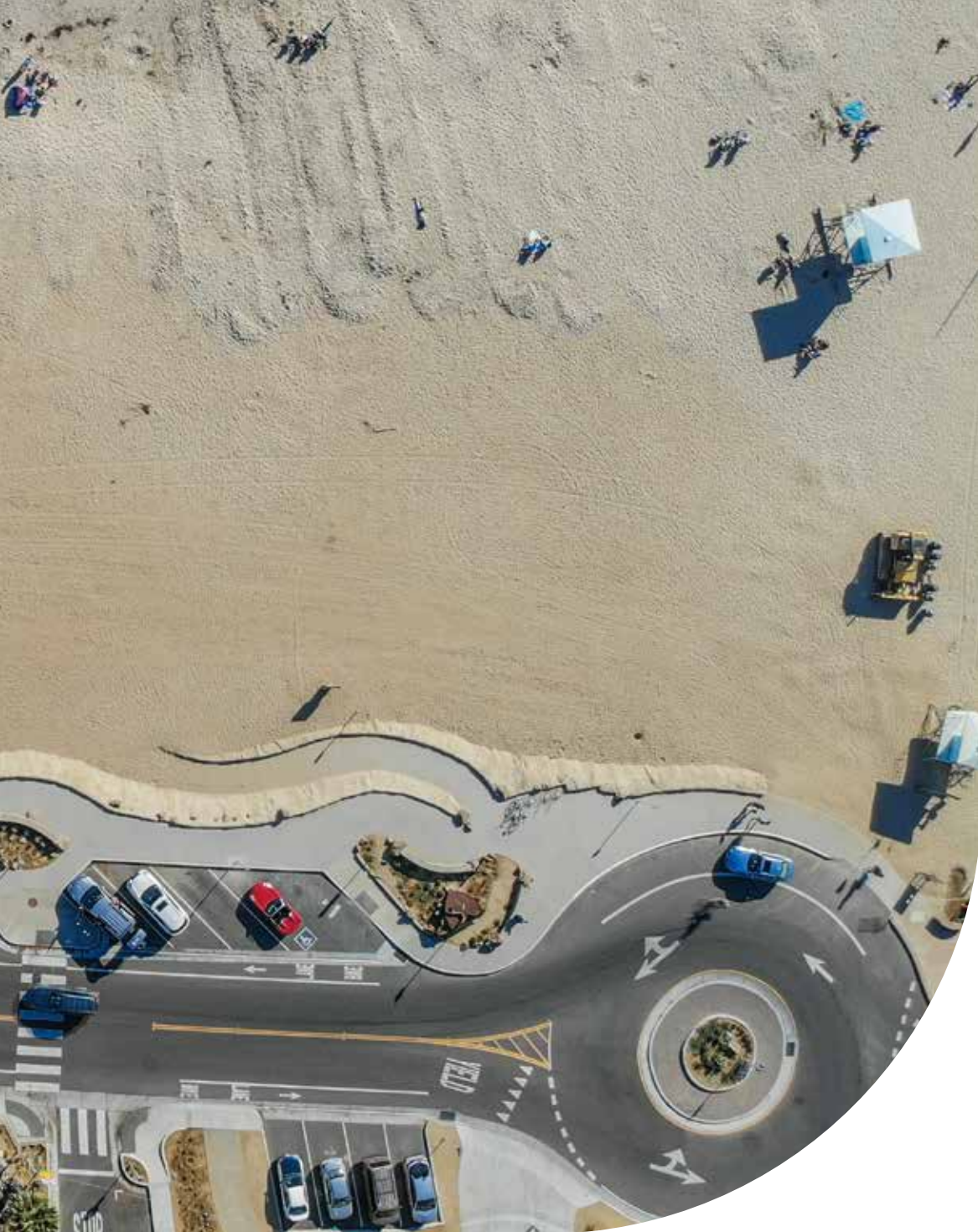
- Sports facilities
- Community amenities
- Environmental enhancements
- Phased development
- Timeline: 2012-Present
- Size: 31 acres

Reference

Meghan Tiernan, Capital Planning
and Development Director
Hayward Area Recreation and Park District (HARD)
1099 E Street, Hayward, CA 94541
P: (510) 881-6716
E: tiem@haywardrec.org



Pictured: Twin Lakes Beachfront Improvements, Santa Cruz, CA



Section Five: **Statement of Interest**

SOQ For On-Call Storm Water Treatment Measures and Hydromodification Control Facilities

Statement of Interest

RRM's design professionals are experts at incorporating LID and stormwater treatment into projects. Our residential development, park, sustainable street, ATP corridor, school, and commercial property projects all blend in sustainable, aesthetically pleasing, and functional LID features that comply with RWQCB stormwater requirements. Our recent Hayward Recreation and Park District projects all utilize the latest Alameda County Clean Water Program C.3 Stormwater Technical Guidance and BAHM software. Our civil engineers and landscape architects collaborate on designing these LID and stormwater features effectively into projects.

On the following page, we provide more information about some of the processes for sustainability practices throughout our projects.

Our public works experience also allows us to incorporate transportation, flood control, retaining walls, and other components into the design. Our QA/QC process utilizes reviewers who aren't involved in the project through a plan-checking manner to ensure compliance and design coordination. We have qualified SWPPP Developers/Practitioners on staff who develop, review, and inspect construction BMPs. RRM will act as an extension of SCVURPPP staff to review design improvements for stormwater compliance and engineering feasibility. Our project manager, Darren Choy, has been the civil engineer for several Bay Area projects and also has provided consultant plan checking services for the City of Carlsbad, City of Escondido, City of Poway, and City of Del Mar as a part of his previous job. Darren is very comfortable and familiar with agency plan-checking procedures, budgets, and schedules and can adapt to critical submittal constraints.

Availability and Commitment:

RRM is committed to projects in the Bay Area and improving water quality throughout the State. If we are included on SCVURPPP's List, we will prioritize and consider all inquiries. For accepted projects, we will develop a feasible schedule and budget to produce a quality product.

We Know Sustainability

Sustainable landscapes work hard to sequester carbon, clean the air, water, and soil, increase energy efficiency, restore habitats, reduce waste, and create lasting value through economic, social, and environmental benefits. At RRM, we design for the future with landscapes that respond to the environment and actively contribute to developing healthy communities.

Not Just a Platitude:

RRM targets 20% of all design staff to hold a sustainable certification such as LEED, Envision, or Bay Friendly Qualified Professionals. We're currently at:

22%

Stormwater Management:

As our environments continue to become more urban, the surfaces around us become increasingly impervious – think roads, rooftops, and parking lots. During a storm event, water is unable to soak into the ground, so it speeds up carrying trash, bacteria, heavy metals, oil, and other pollutants. Rainfall events lead to flooding and erosion, damaging property, infrastructure, and habitat. We use green infrastructure and low-impact development strategies to mitigate the impacts of stormwater runoff by mimicking the natural environment. These strategies slow runoff down and use vegetation and soil to clean, manage, and store the water. A few of the strategies we implement in our projects include bioswales, green walls and green roofs, retention and detention basins, permeable pavements, and soil amendments.

Tree Selection:

Trees are amazing! They remove carbon dioxide from the atmosphere, cool pavements working against the heat island effect, clean stormwater runoff, and increase energy efficiency when placed near buildings to shade in the summer and buffer the cold in the winter. Planting climate appropriate trees in landscapes also require less of a water demand and create habitats for several species.



Water Conservation:

With a significant number of our projects in California, RRM takes water conservation seriously. By using climate appropriate plants, efficient irrigation systems, and applying mulch, we dramatically reduce the amount of water need for our projects.



Creating
Environments
People
Enjoy®