

TRANSPORTATION PLANNING / ENGINEERING

TRAFFIC ENGINEERING

AVIATION

WATER RESOURCES ENGINEERING

STORMWATER MANAGEMENT PLANNING

MILITARY / FEDERAL GOVERNMENT

STRUCTURAL ENGINEERING

SERVICES PROVIDED

LAND DEVELOPMENT

ENVIRONMENTAL

MUNICIPAL / PUBLIC WORKS ENGINEERING

PLANNING

CONSTRUCTION MANAGEMENT

LANDSCAPE ARCHITECTURE

ELECTRICAL ENGINEERING

ENERGY DEVELOPMENT

SURVEYING/MAPPING

RELATED PROFESSIONAL SERVICES

RBF provides a multi-disciplined approach to projects utilizing a wide range of services to assist our clients in fulfilling their goals and vision for the future. The following is a generalized list of services. For more complete information, please contact us or refer to more specific marketing materials.

TRANSPORTATION PLANNING / ENGINEERING

- Caltrans Project Reports (PR's)
- Caltrans Project Study Reports (PSR's)
- Complete Streets Planning and Design
- Context Sensitive Transportation Design
- Corridor Alignment Studies
- Design-Build Services
- Environmental Documentation
- Freeway / Interchange / Toll Road Design
- Goods Movements Infrastructure Planning and Engineering
- Mobility Planning
- Multi-Modal Transportation Planning
- NEV / LUV System Planning
- Parking Demand Management (PDM)
- Parking Demand Utilization Studies
- Parking Structure Planning and Design
- Parking Utilization Studies
- Pedestrian / Bicycle Planning
- Public Outreach
- Railroad Grade Separation Design
- Roundabout Planning and Design
- Safe Routes to School
- Shared Parking Analysis
- Site Access Review
- Smart Growth Transportation Planning
- Street and Highway Design
- Sustainable Transportation Planning
- TOD / Infill Transportation Planning
- Traffic Calming Planning and Design
- Traffic Fee Programs
- Traffic Impact Studies
- Transit Oriented Development (TOD)
- Transportation Demand Management (TDM)
- Transportation Infrastructure Phasing
- Transportation Management Plans for Construction
- Transportation Master Planning
- Transportation Strategic Plans
- Value Analysis

TRAFFIC ENGINEERING

- Bus Rapid Transit (BRT) Design and Program Management
- Bus Stop Location Policy
- City Traffic Engineering Contract Services
- Engineering and Speed Surveys
- Intelligent Transportation Systems (ITS) Master Plan
- Intelligent Transportation Systems (ITS) Design Services
- Plan Check Review Services
- Signage and Striping Plan Design
- Signal Communication Systems
- Stage Construction and Traffic Handling
- Street and Highway Lighting
- Traffic Management Centers
- Traffic Signal Systems
- Traffic Signal Timing and Synchronization
- Traffic Simulation
- Traffic Surveillance Systems

AIRSIDE / LANDSIDE AVIATION SERVICES

- Access and Internal Roadways
- Airfield Lighting and Electrical
- Airport Security
- ALP's
- Cargo Ramp Design

- Environmental Services
- FBO Site Development
- GIS
- NAVAIDS
- Parking Facilities
- Pavement Analysis
- Runway, Apron and Taxiway Design
- Traffic Engineering and Studies

WATER RESOURCES ENGINEERING

- Agricultural Infrastructure Systems Planning
- Best Management Practices
- Brackish Groundwater Analysis
- CCTV Pipeline Inspection
- Channel Restoration
- Corrosion Engineering
- Cross-Connection Evaluation
- Dam Infrastructure Planning and Design
- Desalination Infrastructure Planning and Design
- Domestic and Recycled Water Pipeline Design
- Domestic and Recycled Water Pressure / Flow Control Station Design
- Domestic and Recycled Water Pump Station Design
- Domestic and Recycled Water Reservoir Design
- Domestic and Recycled Water Well Design
- Domestic Water Planning and Design
- Erosion Control / Sediment Transport
- Facility Condition Assessments
- Flood Control Engineering
- Flood / Hazards Management
- Flood Risk Management
- Floodplain Studies
- Flood Protection / Groundwater Recharge
- Hydraulic Modeling / Analysis
- Hydraulic Structures Design
- Hydrology Studies
- Lake Design and Restoration
- Lift Stations
- Municipal Water Master Planning
- Pump Station Design
- Reconnaissance Studies
- Reservoir Design and Restoration (Steel, Pre-Stressed, Concrete, Cast-In-Place)
- Riparian / Wetland Design
- Sediment Management Analysis
- Sewer Design
- Storm Drain Design
- Stormwater Quality
- Stream Design and Restoration
- Thermal Energy Storage
- Trenchless Technology
- Urban Water Management Planning
- Vulnerability Assessments
- Wastewater Management
- Wastewater Pipeline Design
- Wastewater Planning
- Wastewater Treatment Plant Design
- Water Conservation Studies
- Water Efficiency Systems Planning
- Water Recharge
- Water Reuse / Recycling Programs
- Water Supply Reliability Studies
- Water Treatment Plant Design

STORMWATER MANAGEMENT PLANNING

- Best Management Practices (BMPs) Design / Research
- Pollutant Watershed Load Modeling
- Construction Stormwater Compliance
- Groundwater Replenishment / Recharge Programs
- Pollution Prevention Plan Development
- Low Impact Development (LID) Design
- Integrated Watershed Management
- Stormwater Harvesting (Cisterns, Bio-Retention)

- Stormwater Quality Assessment and Compliance
- NPDES Permit Compliance and Stormwater Management Planning

MILITARY / FEDERAL GOVERNMENT

Air Compatibility Use Zone Studies
 Airfields
 Anti-Terrorism / Force Protection
 Base Reuse
 Construction Support Services
 DD1391 Documentation
 Design / Build Partner
 Encroachment Action Plans
 Environmental Analysis and Studies
 IDIQ Services
 Infrastructure Planning and Design
 Military Housing
 NEPA Compliance
 Prime A/E Consultant
 Public-Private Venture
 RFP Preparation for Design Build
 Site Development
 Site Utility Assessments
 Small Business Partner
 Training Ranges

STRUCTURAL ENGINEERING

Bridge Design and Seismic Retrofit
 Bridge Inspection and Rehabilitation
 Building Design
 Concrete / Steel Reservoirs
 Dam Outlet Control Structures
 Existing Building Evaluation and Renovation
 Flood Control / Drainage Structures
 On-Call Services
 Structures Construction Support

- Pedestrian Over-crossings / Under-crossings
- Water Treatment Facility Structures
- Wastewater Lift Stations
- Water Supply Pump Stations

LAND DEVELOPMENT

- ADA Compliance Design
- Asset Management
- Assessment District / CFD Engineering Support
- Brownfield Redevelopment
- CEQA Compliance Engineering Support
- Commercial / Industrial Land Development
- Community Facilities Planning and Engineering
- Conceptual Design and Site Planning
- Construction Support / Value Engineering Services
- Destination Resort Engineering
- Educational Facilities Engineering
- Entertainment and Cultural Facilities Design
- Feasibility / Site Selection Studies / Due Diligence
- Golf Course Engineering
- Green Rooftop Design
- High Density Residential Engineering
- Hillside Sensitive Grading Design
- Infill / Redevelopment Site Planning and Engineering
- Infrastructure Design and Engineering
- Institutional Development
- Land Acquisition
- Land Surveying
- LEED Certification Processing
- LEED Design Assistance
- Master Planned Communities
- Military Base Reuse
- Project Financing Assistance
- Regional / Municipal Park Design
- Regional Water Board Compliance / SWPPP / WQMP
- Sports Facilities / Stadium Design
- Stormwater Runoff Mitigation Design and Implementation
- Subdivision Engineering

Tentative Tract Maps
 Warehouse / Distribution / Logistics Infrastructure

ENVIRONMENTAL

- Acoustic, Vibration / Noise Studies
- Air Quality Analysis
- CEQA and NEPA Compliance
- Climate Action Plans
- Coastal Permitting
- Desalination Infrastructure Planning
- Ecological Infrastructure Analysis
- Ecosystem Restoration
- Environmental Analysis
- Environmental Assessments
- Environmental Impact Reports (EIR)
- Environmental Impact Statements (EIS)
- Environmental Mitigation and Monitoring
- Environmental Planning
- FONSI's (Finding of No Significant Impact)
- Global Climate Change Analysis
- Greenhouse Gas (GHG) Emissions Inventory
- Hazardous Material Assessments
- Heat Island Mitigation
- Initial Studies
- Integrated Watershed Management Planning
- Jurisdictional Delineations
- Mitigated Negative Declarations (MND)
- Regulatory Permitting
- Siting Analysis

NATURAL RESOURCES MANAGEMENT

- Biological Monitoring / Adaptive Management
- Biological Technical Reports
- Conservation / Mitigation Banks
- Construction Monitoring
- Habitat Assessments
- Habitat Conservation Plans
- Habitat Management Plans
- Impact Analysis / Mitigation
- Integrated Natural Resources Management
- MSHCP Consistency Evaluations
- Pre Construction Clearance Surveys
- Protocol Surveys
- Resources Management Plans
- Re-vegetation / Restoration Planning
- Section 7 Consultations
- Sensitive Plant Surveys
- State 2081 / 2080.1 Take Permits

MUNICIPAL / PUBLIC WORKS ENGINEERING

- Assessment District Engineering
- Bridge Design
- CCTV Pipeline Inspection and Assessment
- City Engineering Contract Services
- Construction Management / Engineering
- Flood Control Design
- Infrastructure Engineering
- Municipal Financing / Engineering
- On-Call Services
- Plan Check Services
- Program Management
- Seismic Retrofit Design
- Sewer and Water Facilities
- Street and Highway Design
- Structural Engineering

PLANNING

- Adaptive Re-Use Studies
- Brownfield Development Planning
- Community Master Planning
- Community Outreach / Education
- Design Guidelines
- Development Codes
- Downtown / Urban Revitalization

- Economic Development Planning
- Entitlement-to-Use-Processing
- Feasibility Phase Studies
- Form-Based Codes
- General Plans / General Plan Updates
- Healthy Communities Planning
- Historic Preservation
- In-fill Development
- Land Use / Site Planning
- LEED Design Assistance
- Liveable Communities Design
- Local Food Share Programs
- Mixed Use Planning
- Perspective Renderings / Illustrations
- Plan Formulation Analysis
- Policy Development / Planning
- Public Information and Outreach
- Site Optimization Studies
- Specific Plans
- Sustainability Outreach and Education
- Transit Oriented Development (TOD) Planning
- Urban Design
- Wayfinding Systems Design
- Zoning Ordinances

CONSTRUCTION MANAGEMENT

- Bid Services
- Claims Investigation and Resolution
- Constructability Reviews
- Construction Inspection
- Construction Mitigation
- Construction Permitting
- Contract Administration
- Cost / Schedule Management
- Design Build
- Green Building Services
- Labor Compliance
- Program Management
- Resident Engineering

LANDSCAPE ARCHITECTURE

- Artificial Turf Field Design
- Conceptual Landscape Design
- Construction Documentation
- Construction Services
- Context Sensitive Landscape Design
(Drought Tolerant, Climate Zones)
- Downtown Streetscape Design
(Landscape, Benches, Lighting, Signage)
- Entry Monumentation
- Low Impact Development
- Native / Region Friendly Landscape Design
- Open Space Planning and Design
- Parks Master Planning and Design
- Porous Pavement Integration
- Public Trails Master Planning and Design
- Sports Parks Design
- State Highways and Roadway Landscape Architecture
- State-of-the-Art Irrigation Systems Design

ELECTRICAL ENGINEERING

- Power System Design
- Instrumentation / Control Design
- SCADA Monitoring
- Power System Device Coordination / Short Circuit Analysis
- NFPA 70E Arc Flash Analysis
- Emergency Power and Alternative Fuel Evaluation
- Green Power / Solar Design

- Efficiency Improvement Studies
- Utility Coordination
- Lighting Design
- Light Pollution Reduction Analysis and Design

ENERGY DEVELOPMENT

- Constraints Mapping
- Construction / As-Built Surveys
- Construction Management
- Environmental Analysis / Entitlement
- Feasibility / Site Selection Studies
- Flood Hazard Analysis
- GIS Infrastructure Mapping
- Generation-Tie Line Mapping / Acquisition
- Green Power Alternatives
- Land Acquisition
- Land Survey / Mapping
- LiDAR Scanning (for Rooftop Solar Applications)
- Public Outreach
- Site Assessment Analysis / Design
- Site Civil Engineering (Grading / Drainage / Wet Utilities)
- Stormwater Runoff Mitigation Design / Implementation
- Visualizations

SURVEYING / MAPPING

- 3D Design to Construction
- 3D Laser Scanning / Modeling
- Aerial Topography / Photogrammetry
- ALTA / ACSM Land Title Surveys
- Boundary Determination
- Building Information Modeling (BIM)
- Cadastral Surveying
- CCTV Pipeline Inspection
- Condominium Plans
- Construction Surveying
- Deformation Monitoring Surveys
- Final Subdivision Maps
- Geographic Information Systems (GIS)
- Global Navigation Satellite Surveying (GNSS / GPS)
- Legal Descriptions
- Right-of-Way Engineering
- Secure Interactive Online Web Mapping
- Subsurface Utility Investigation
- Topographic Mapping

RELATED PROFESSIONAL SERVICES

- 3D Visual Simulations
- Computer Animations
- Conference Presentations and Moderation
- Conference / Special Events Planning and Facilitation
- Education / Professional Development Programs
- Event Planning / Implementation
- Grant Application Writing
- Green Meeting, Conference and Event Planning
- Illustration Rendering
- Legislative / Grants Tracking
- Marketing
- Media Arts / Graphic Design
- Media Outreach
- Multimedia Presentations
- Press Releases, Articles and Award Submittals
- RFQ / RFP Preparation Assistance
- Public Relations Services and Programs
- Secure Interactive Online Web Mapping
- Seminars and Training
- Team Building Programs
- Technical Writing
- Web Site Development, Design and Hosting

RBF offers a full range of green design services and 60 LEED Accredited Professionals.
RBF experts integrate the use of sustainable products / practices in design.