

SANITARY SEWER

When a project requires expertise in sanitary sewer projects, HFI can respond with a well seasoned team of experts. HFI's experience in planning, design and conditional assessment of sewer systems is listed below

Services.

- ♦ Facilities planning and design
- ♦ Preparation of plans, specifications, and estimates
- ♦ Lift station design
- ♦ Video inspection
- ♦ Trenchless technology
- ♦ Sewer system rehabilitation strategies
- ♦ Public information & involvement program
- ♦ Value engineering
- ♦ Contract administration
- ♦ Program management
- ♦ Permitting
- ♦ Regulatory compliance strategies
- ♦ Funding strategies to leverage available federal and state funding sources



Representative Projects:

- Backbone and In tract sewer Ladera Ranch
- Horno Lift Station Force Main Santa Margarita Water District
- Covington Heights Backbone Sewer Systems Pulte Homes/Yorba Linda Water District
- Sewer System Modifications at El Cerrito Avenue Cypress
- Southeast Fontana/Bloomington Master Plan Rialto
- Sewer Master Plan Yorba Linda Water District
- Plan of Works Report Ladera Ranch/Santa Margarita Water District
- Sewer Master Plan Fontana
- Foothill/East Avenue Trunk Sewer Fontana
- Backbone and In Tract Sewers, Heritage Fontana
- Downtown and Imperial Highway Brea
- Antonio Parkway Trunk Sewer Orange County
- State College/Rolling Hills Drive Relief Subtrunk Sewer Orange County
- Golden City Master Plan Offsite Sewer Murrieta
- El Cajon Trunk Sewer Yorba Linda Water District

SURVEYING & MAPPING

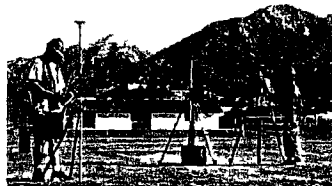
With a combination of state of the art technology and a well trained, experienced staff, HFI can provide a wide variety of project surveying services

Services:

- ♦ Right of Way Mapping
- ♦ Architectural/Engineering Design Surveys
- ♦ ALTA/ACSM Land Title Surveys
- ♦ Legal Description and Plats
- ♦ Subdivision Mapping
- ♦ Construction Staking
- ♦ GPS Control Networks
- ♦ Settlement Monitoring
- ♦ Aerial Topographic Surveys
- ♦ Condominium Plans

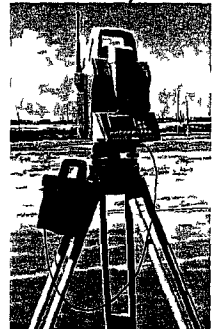
Representative Private Survey Projects

- Triangle Square Shopping Center- Costa Mesa
ALTA, Mapping and Construction Staking
- Simi at the Plaza Shopping Center Simi Valley-
ALTA, Mapping and Construction Staking
- Kaleidoscope Shopping Center Mission Viejo
ALTA, Mapping and Construction Staking
- Covina Town Square Shopping Center- *ALTA and
Lot Line Adjustments*
- Baldwin Hills Marketplace *Redevelopment ALTA,
Mapping, and Construction Staking*
- Marr Ranch Simi Valley *226 Lot Subdivision
Mapping and Construction Staking*
- Meridian Moorpark *250 Lot Subdivision
Mapping and Construction Staking*
- Wolf Creek Temecula *1457 Lot Subdivision
Mapping and Construction Staking*
- The Regatta Highrise *ALTA Mapping and
Construction Staking*
- Hollywest Promenade *ALTA Mapping and
Vertical Subdivision*



Representative Public Survey Projects

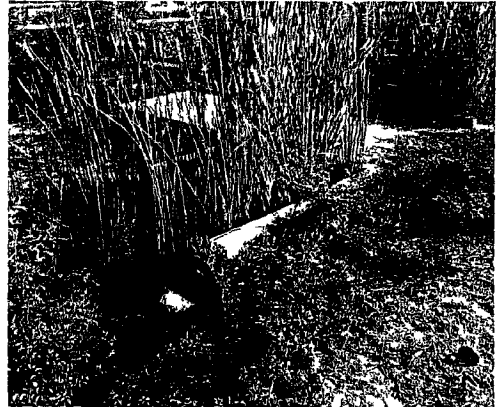
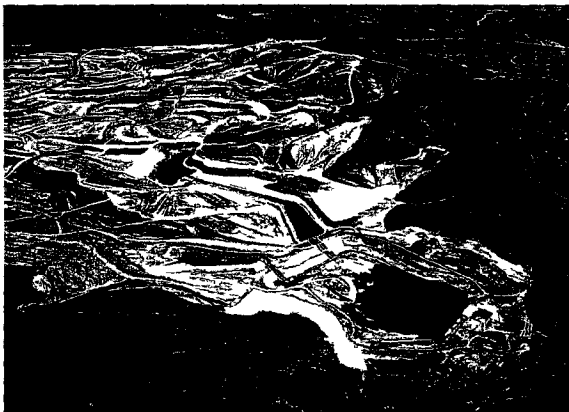
- Interstate 5 Right of-Way mapping- OCTA
- Foothill Blvd Surveying and Right of Way mapping- City of Fontana
- State Route 30 Surveying and Right of Way mapping SANBAG
- Interstate 405 Right of Way mapping OCTA/HNTB
- Post Earthquake Design Surveys Cal State Northridge
- Mountain Street Design Topo and Staking City of Tustin
- Fairplex Drive Design Topo and Staking-City of Pomona
- Santa Ana River Improvement Mapping Counties of Orange, Riverside and San Bernardino
- Summit Avenue Surveying and Right of-Way mapping City of Fontana
- Current On Call Surveying Contact County of Los Angeles
- El Centro Gas Line Surveying and Right of Way mapping So Cal Gas Co



NPDES / WATER QUALITY MANAGEMENT

HFI provides a broad range of professional NPDES/Water Quality/SWPPP services with an in depth understanding of technical and regulatory issues for implementation of storm water quality requirements in accordance with the NPDES program. Expertise has allowed staff to merge innovative and award winning designs with practical and cost effective application of Best Management Practices (BMPs). These benefits have resulted in key relationships being developed with regional and local authorities throughout the Southern California area. HFI has provided numerous plans for public and private development for municipal, industrial/commercial, and construction activities. The goal is to integrate regional issues while considering practical applications and the environment.

HFI's professional services in Water Quality Management have included the development and provision of Best Management Practices (BMPs) for municipal and industrial/commercial construction activities covered by the State of California NPDES General Permit, "Standard Urban Stormwater Mitigation Plans" (SUSMP), local Water Quality Management Plans, and project specific Runoff Management Plans incorporating water quality. HFI's scope of services include the preparation of SWPPP's, Erosion and Sediment Control Plans, design of urban flow (dry weather runoff) interceptor structures, and vegetated riverine systems for biofiltration of urban flows. Unique special services include the design of Water Quality Catch Basin Inlets to intercept dry weather urban flows as required by NPDES criteria.



Services:

- ♦ Plan check review for public agencies in accordance with NPDES requirements
- ♦ Development of permit applications and plans including WQMPs, SQWMPs, and SWPPPs
- ♦ Site inspections and regulatory compliance
- ♦ Program development for Water Quality Management
- ♦ Training seminars and workshops with certified expertise in hydrologic analysis and studies modeling
- ♦ Addressing complex environmental permitting issues
- ♦ Innovative design and expertise of water quality treatment facilities
- ♦ Alternative funding strategies from federal, state, and local resources
- ♦ Water quality management
- ♦ NPDES permit compliance
- ♦ Development of BMPs
- ♦ Water quality treatment facilities design
- ♦ Regulatory compliance strategies
- ♦ Funding strategies to leverage available federal and state funding sources
- ♦ Public information and involvement program
- ♦ Program management
- ♦ Inspection services

NPDES / WATER QUALITY MANAGEMENT

Representative Projects

- Water Quality Catch Basin Standard Drawings
Los Angeles County Department of Public Works
- Preparation of SWPPP's Los Angeles, Ventura,
Riverside, San Bernardino & Orange Counties
- Development of NPDES Monitoring and Sampling
Plan Ladera Ranch, Rancho Mission Viejo
- Annual Sediment Control Plan Rancho Mission
Viejo, Ladera Ranch
- Centennial Master Drainage and Water Quality
Concept Plan - Tejon Ranch
- Preparation of Erosion and Sediment Control
Plans Various locations
- The Strand Walkway Improvements Manhattan
Beach
- Ladera Ranch Rancho Mission Viejo
- Rolling Meadows Tejon Ranch
- Renaissance Ranch Renaissance Communities,
LLC
- Sycamore Villas Cameo Homes
- Pacific Grove Communities Pacific Grove
Corporation
- Infinity Homes - Infinity Homes
- Chelsea Square The William Fox Group
- Meadows Village Shopping Center - Spehar
Temecula Center
- Seal Beach Village Seal Beach Village, LLP
- Richardson's RV Sales Manifee,
Riverside County
- Falkner Winery Raymond and Loretta Falkner
- Leonesse Winery Stage Ranch Farm Mgmt



HFI TEAM MEMBERS

With a staff of over 180 employees, including 31 registered Civil Engineers, HFI has the team necessary to provide timely and cost effective engineering services. Brief professional profiles of key HFI team members are presented below. Typical support staff includes project and staff engineers, designers, CADD operators, clerical, surveyors and inspectors.

John Hogan, P E

Chief Executive Officer/Principal

Mr. Hogan's 30+ year civil engineering background includes experience in all civil engineering disciplines. He has managed design teams on a variety of challenging commercial, industrial, residential, land planning, and public work projects. Mr. Hogan's design experience includes grading, sewer, water, street, hydrology/hydraulics, and drainage. The diversity of his past projects range in size and variety. The large scale projects have given him the experience to perform feasibility studies, infrastructure planning, and identifying financing alternatives. Other skills include proactive project communications and the ability to consistently adhere to budget and schedule requirements. Mr. Hogan's involvement in various professional associations and societies keeps him active and aware of the ever changing business and technology climates.

Jon E. Bourgeois, P E

President/Principal Inland Empire Division

Mr. Bourgeois has broad based experience in project management and design of both public works and private projects including preparation of project specifications and bid documents, cost estimates, right of way engineering, and contract administration and inspection. His design experience includes streets, highways, storm drains, sewer and water facilities, and other public works infrastructure components. Mr. Bourgeois is responsible for on call engineering and plan checking services for the Cities of Brea, Diamond Bar, Tustin, Yucaipa, and the Counties of Los Angeles and Orange.

Mark Miner

President/Principal- Los Angeles, Ventura Division

Mr. Miner has over 15 years of experience in the real estate development field. He has thorough knowledge of the subdivision process, building permit process, tract map recordation procedures, public improvement plans, environmental impact reports and clearances, and other entitlements. He has been involved in a diverse number of projects including residential and industrial subdivision, condominium conversions, high rise development and public infrastructure. Mr. Miner has also managed the permit approval process associated with these various developments.

Alan Palermo, P E

President/Principal- South Coast Division

Mr. Palermo has over 17 years industry experience in construction management, land development, commercial/retail, residential, industrial and institutional projects for the private sector. His expertise in Client relationships along with supervising projects from initial research through the preparation of construction documents is immeasurable. Mr. Palermo is a results oriented professional with strong project management skills and can prove to be invaluable to any project.

Steve C. Shambeck, P L S

Vice President/Principal- Surveying & Mapping

Mr. Shambeck serves as the corporate director for the Surveying and Mapping Department. Mr. Shambeck has over 20 years of surveying, mapping, and land development experience in Southern California. Mr. Shambeck has earned a reputation for quality right of way mapping, boundary resolutions, ALTA surveys coordination, and innovative mapping solutions. His involvement in the surveying associations keeps him current in the field.



Key Personnel

Donald O Lohr, P E

President Temecula Division

Mr Lohr possesses over 34 years of civil engineering experience. He has been engaged in the marketing, administration, planning, design, and construction of private and public projects including land development, residential, commercial, industrial subdivisions, recreational facilities, and public works projects for local agencies.

Gerald J Baril, P E

Vice President/Associate - Temecula Division

Mr Baril has over 41 years experience in the public and private sectors in Southern California. His professional experience and qualifications include general civil, water resources, sanitation systems, drainage and flood control, site development, and transportation projects. He has managed many projects from planning through design and construction. Early in his career, he developed a complex hydraulic analysis computer program for the County of Los Angeles and their first hydrology program. Mr Baril also compiled/authored the county's Highway Design Manual. He has served on the committee which developed the Orange County Local Drainage Manual. Currently, he is preparing Standard Drawings for Water Quality Catch Basins for Los Angeles County.

Fred W Doerges, P E

Vice President/Associate - Temecula Division

Mr Doerges has in excess of 35 years of civil engineering experience. He has been involved in the administration, planning, design, and construction of projects within both the public and private domain. Assignments include public works facilities design and funding programs, recreational development for cities, counties, utility companies, and public agencies, and residential and commercial projects.

Harold A Garcelon, P E

Vice President, Engineering/Associate Inland Empire Division

Mr Garcelon has over 40 years of experience in Southern California with private and public sector projects. He worked for the City of Whittier for 15 years. Where his duties included grading, sewer, storm drain, highway design, and plan checking and construction supervision. Mr Garcelon was the Project Manager for a 12 acre Wal Mart and McDonald Classic with shop space, a major design issue was a terraced 14 inch retaining wall.

Eldon C Schierman, P E

Vice President, Engineering/Associate - Los Angeles, Ventura Division

Mr Schierman has more than 26 years of professional experience in civil engineering and projects throughout Southern California. He has been responsible for the design and implementation of numerous residential, commercial, and industrial developments including, subdivision, mapping and the public improvements associated with those developments.

Robert C Everson, P E

Project Director/Associate South Coast Division

Mr Everson has over 26 years of experience on numerous projects involving all aspects of infrastructure planning and design. His extensive background includes sanitary sewer and water system designs, hydrology and hydraulic engineering, grading, street, and storm drain improvements, detention basins, and extensive coordination with both wet and dry utility agencies.

Anthony J Terich, P E

Project Director/Associate - Temecula Division

Mr Terich possesses over 36 years of experience in the marketing, administration, planning, design, and construction of projects involving land development, residential, commercial, industrial subdivisions, and public works. His accrued strengths include land planning, development of raw land and infill sites development strategy, governmental coordination, project organization, and design.

Robbie Mahmood, P E

Project Director/Associate South Coast Division

Mr Mahmood has more than 18 years of experience in civil engineering design construction and management. His expertise includes the design of roadways, drainage, hydrology, sewer, water structures, and construction management. Mr Mahmood has been managing projects in the public works sector as well as the land development sector. He was the Project Manager for Covenant Hills at Ladera Ranch responsible for all on-site sewer, water and street improvements.

Key Personnel

Glenn Chung, P E

Project Manager/Associate Inland Empire Division
Glenn Chung, P E holds a Bachelor of Science Degree in Civil Engineering from the University of Long Beach and has over 10 years of professional experience in Southern California. His experience as Project Manager includes land development for commercial, industrial, and custom lot residential projects and land surveying and mapping services.

Ralph Dominguez, P L S

Survey Manager/Associate Inland Empire Division
Mr. Dominguez is responsible for managing and coordinating all aspects of the field survey and office support team. With over 30 years in the surveying industry, he has the experience to manage many types of projects. Mr. Dominguez provides direct supervision to HFI surveyors for construction projects, horizontal control establishment, boundary and ALTA surveys, and production and safety.

Mike Navarro, P L S

Manager of Mapping/Associate South Coast Division
Mr. Navarro has been instrumental in the plan preparation of Parcel Maps, Tract Maps, ALTA Surveys, Record of Surveys and Lot Line Adjustments for various clients, both private and public. His experience also includes preparation of legal descriptions, topographic surveys and boundary surveys and analysis. Additionally, Mr. Navarro provides plan checking services to the City of Tustin. He is responsible for plan checking all maps in accordance with the Subdivision Map Act and guidelines for the preparation of maps currently in acceptance in the industry. Mr. Navarro has also provided plan checking services to the City of Brea, under the guidance of the Contract City Engineer.

Henrik Nazarian, P E

Project Director/Associate Los Angeles, Ventura Division
Mr. Nazarian has over 13 years industry experience in construction management and land development. His design experience in commercial/retail, residential, and industrial projects include grading, sewer, water, storm drain, street and hydrology/hydraulic studies. Clients will receive optimum coordination between the design team and the contractor in meeting the schedule and completing the project under budget, due to Mr. Nazarian's combined construction and design experience.

Danial Martin, P L S

Director of Surveying & Mapping Los Angeles, Ventura Division

A professional land surveyor, Mr. Martin has more than 21 years of related surveying experience. This experience ranges from property surveys to right of way and boundary establishment problems and solutions. This includes preparation of legal descriptions, ALTA surveys, tract maps, exhibit maps, as built, design and construction surveying for streets, storm drains and other improvements. He has been extensively involved in the implementation of designed projects and the quality control of field operations.

John Polito

Project Director Los Angeles, Ventura Division

Mr. Polito has over 20 years experience in land development including land planning entitlements, civil design, final plan, and map approvals. His expertise as Project Director includes hillside developments and master planned communities. His daily contact with public agency staff in Los Angeles, Ventura, and San Diego Counties ensures our Clients a direct link to County resources. Mr. Polito was responsible for the design, implementation, and final approval of street designs, storm drain facilities, sewer infrastructure, and water infrastructure for numerous master planned community projects.

Hugo H. Prestinary, P E

Project Director - South Coast Division

Mr. Prestinary is a hands on engineer with over 41 years of experience, primarily on large-scale master planned communities. Considered one of the preeminent hillside grading experts in the area, Mr. Prestinary's projects include Nellie Gail Ranch and Ladera Ranch's Covenant Hills in Orange County, Rancho California and Lake Hills in Riverside County, and extensive experience in Los Angeles County.

Jerry Veluhakis

Director of Planning Los Angeles, Ventura Division

Mr. Veluhakis has over 31 years of related experience in both city and regional planning. He has thorough knowledge with all aspects of land development planning including detailed knowledge of regional and local zoning, land use issues, land development planning and subdivision regulations. He has been involved in numerous infill/development projects in Los Angeles.

Key Personnel

Durry Atassi, P E

Project Manager South Coast Division

Mr Atassi has over 17 years of experience in land development and transportation engineering. Mr Atassi has contributed to the completion and success of many national and international civil engineering projects. His experience covers all aspects of civil engineering work including planning, final design, and construction management. His experience in transportation design includes preliminary engineering, geometric design, route relocation studies, stage construction, traffic handling plans, and cost estimates.

Don Bierman, P E

Project Manager South Coast Division

Mr Bierman has over 35 years of civil engineering experience in the management and engineering of drainage projects, site development, freeway and airport drainage projects, commercial, industrial and residential site improvements. His experience also includes design of plans for sewers, streets, storm drains, water conveyance and grading, development of Master Plans of Drainage, and drainage systems designs.

Richard L. Bowman, P E

Project Manager Inland Empire Division

Mr Bowman has more than 31 years of professional civil engineering experience in Southern California. He has prepared numerous plan and specification documents for streets & highways, sewers, water and drainage & flood control projects. His expertise includes mass, rough and precise grading design for both large and small site development projects. He has also prepared several Storm Water Pollution Prevention Plans. His experience includes municipal services for plan checking of various improvement plans and implementation of ADA and Title 24 regulations.

Ronald D. Chapman

Project Manager Inland Empire Division

Mr Chapman has over 36 years of experience encompassing land development for both commercial and residential projects along with experience on public works projects throughout Southern California and Southern Nevada. Mr Chapman has coordinated with HFI staff, governmental agencies, consultants, and private development companies to process all the documents necessary for the development of a project.

F. Richard Jones, P E , P L S

Project Manager Los Angeles Ventura Division

Mr Jones has over 27 years experience within the civil engineering industry as Project Manager, Director, and Office Manager. Mr Jones has managed multi-disciplinary teams of professionals to bring about timely completion of complicated hillside, residential, commercial, and industrial projects. He has formulated project schedules, provided cost effective management, timely invoicing, and managed teams of subconsultants to provide expeditious approvals for environmentally sensitive projects. Mr Jones has also designed and developed new business development strategies, computer network systems, and standards for CAD practices.

Ben Macaluso

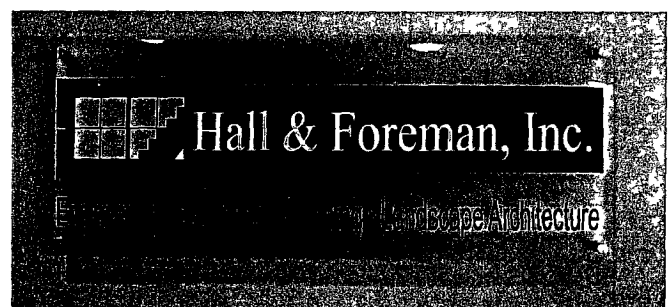
Project Manager Inland Empire Division

Mr Macaluso has spent more than seven years working as a project manager for projects throughout Southern California, Arizona, and Nevada. The nature of the projects included gas stations, fast food restaurants, single family residential, multi-family residential, and large commercial retail. His experience as a project manager includes duties such as budget management, entitlement processing, subcontractor coordination, utility coordination, and construction support.

Mike MacFarland

Project Manager, Entitlements Inland Empire Division

Mr MacFarland has broad based experience in project management and entitlement. He has worked on projects throughout Southern California, Arizona, and Nevada. Many of his past projects have focused on the fuel industry. These projects have given him the experience to perform feasibility studies, manage and adhere to strict budget and construction schedules, and represent Clients at public hearings and throughout the entire entitlement process. The diversity of project locations has allowed Mr MacFarland to create personal contacts throughout many governmental agencies.



Key Personnel

Andrew Powell

Project Manager Temecula Division

Mr Powell has over 24 years experience in residential, commercial, and industrial site design and five years experience in public works with an emphasis on water distribution, plan checking, and Capital Improvements. He served as a Consultant Associate Engineer for the City of Murrieta and has prepared staff reports and resolutions to city councils along with map checking and preparation of specifications and estimates. Mr Powell has extensive knowledge of NPDES and SWPPP regulations, services, and state requirements.

Hugo Ramirez

Project Manager South Coast Division

Mr Ramirez has more than 16 years of civil engineering experience with private land development and public works projects in Southern California. He has been the project engineer and designer of numerous residential and planned communities, commercial land industrial developments.

Mark S Reader, P E

Project Manager South Coast Division

Mr Reader has over 18 years of varied experience within the field of civil engineering. His professional career includes public sector experience performing freeway design, land surveying, and right-of way monumentation and private sector experience including civil engineering design and agency processing for residential subdivisions. For the last 14 years of his professional career Mr Reader has provided structural and civil engineering services for approximately 3,000 projects, which entail custom homes, shopping centers, automobile dealerships, and retail buildings. Mr Reader is also experienced in project management for the development of raw land and infill sites. He has served as the investigative lead engineer for insurance companies and property management companies along with providing expert witness testimony and depositions for both the plaintiff and defendant in resolving legal disputes.



Armando Rutledge

Project Manager South Coast Division

Mr Rutledge has over 20 years of municipal experience in managing a variety of projects. He is skilled in administering diverse projects ranging from capital improvements to community workshops and has successfully secured various federal, state, and local grants. Mr Rutledge also has an excellent background in critical analysis, communication, construction management, scheduling, and budgeting.

Cindy Shambeck, L S I T

Mapping Manager South Coast Division

Ms Shambeck has been instrumental in the map preparation of parcel maps, tract maps, record of surveys, tentative maps, mergers, condominium plans, parcel map waivers, and centerline ties for various clients. Her 17 years of experience also includes preparation of legal descriptions and plats, lot line adjustments, covenant, conditions and restrictions (CC&R), exhibits, annexations and reorganizations. Currently Ms Shambeck provides plan checking services to the County of Orange and Cities of Brea, Diamond Bar, and Tustin.

Gerald Hofmaister, P E

Senior Project Engineer South Coast Division

Gerald Hofmaister is a Senior Engineer with more than 30 years of subdivision engineering experience. Mr Hofmaister has technical expertise in designs of hillside residential development, multi family projects, and commercial subdivisions. His strengths include layout of grading projects, streets, utilities, and drainage design. He has experience in subdivision mapping and site planning. He has also coordinated projects with design crews, public agencies, and other consultants and Clients from initial concept to completed as built drawings.

Lee M Holguin, P E

Senior Project Engineer L A /Ventura Division

Mr Holguin has over 24 years of proven experience in design, project management, and construction inspection of institutions, maintenance facilities, transportation, and other significant civil engineering projects. Mr Holguin has expertise in school modernization, roadway, grading, drainage, and site development design. Mr Holguin has worked extensively throughout Southern California and has experience working with private Clients, public agencies, and interfacing with local municipalities.

Key Personnel

Pavel Horn, P E

Senior Project Engineer South Coast Division

Mr Horn has over 31 years of experience in the civil engineering profession. He has successful hands on design engineering experience on commercial and residential development projects as well as public works projects. He has an extensive background in grading, street, storm drain, sanitary sewer system, and water design as well as plan checking expertise.

Herman S Hovagimyan, P E

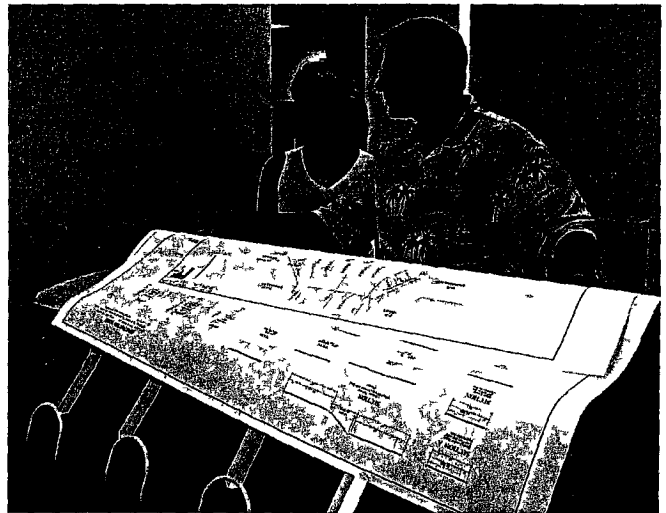
Chief Engineer - South Coast Division

Mr Hovagimyan has over 37 years of experience in the management, planning, design, and construction of major engineering projects throughout the United States. His expertise is recognized by both construction project manufacturers and professional organizations. Mr Hovagimyan is responsible for establishing and monitoring design standards, as well as reviewing all civil engineering designs for structural, storm drain, street and highway, sewer, and water facilities, commercial, industrial, and retail sites.

Connie Ramirez

Senior Project Engineer South Coast Division

Ms Ramirez has over 15 years experience. She has been responsible for computer aided design and drafting of tract maps and improvement plans for storm drain, sewer, street, lighting, signing & striping, grading, and site development. Ms Ramirez has also been responsible for the preparation of construction quantity and cost estimates, and providing development plan check services for HFI's Municipal Clients.



PUBLIC SECTOR REFERENCES

City of Arcadia

Contact Phil Wray
City Engineer
(626) 574-5488

City of Baldwin Park

Contact Shafique Naiyer
Public Works Engineer
(626) 960 4011

City of Brea

Contact John Hogan
Assistant City Engineer
(714) 990 7760

City of Cathedral City

Contact Jerry Jack
Public Works Engineer
(760) 770 0329

City of Diamond Bar

Contact David G. Liu
Director of Public Works
(909) 860 2489

City of Fontana

Contact Ricardo Sandoval
City Engineer
(909) 350 7613
Contact Felipe Molinos
Principal Engineer
(909) 350 6641

City of Irwindale

Contact Kwok Tam
City Engineer
(626) 430 2212

City of La Quinta

Contact Steve Speer
Senior Engineer
(760) 777 7075

City of Laguna Beach

Contact Steve May
City Engineer
(949) 497-0351

City of Lake Forest

Contact Robert Woodings
Public Works Director
(714) 461-3480

City of Murrieta

Contact James Kinley
Director of Public Works
(909) 461 6077

City of Newport Beach

Contact Bill Patapoff
City Engineer
(909) 644-3311

City of Ontario

Contact Tim Mim Mack
Assistant City Engineer
(909) 395-2112

City of Placentia

Contact Warren Siecke
City Engineer
(714) 993 8236

City of Temecula

Contact Ronald J. Parks
Assistant Director of Public Works
(909) 694 6411

City of Tustin

Contact Tim Serlet
City Engineer
(714) 573 3150

PUBLIC SECTOR REFERENCES

City of Upland

Contact Bob Critchfield
Senior Engineer
(909) 931 4246

City of Yucaipa

Contact Bob Stone
Engineering Manager
(909) 797 2489

Caltrans - District 12 ROW Division

Contact Gregory B. Grant
Chief Land Surveyor
(949) 724 2823

Los Angeles County Department of Public Works

Contact Steven Ross, P.E.
(626) 458 4316
Contact Jim Thurow
Supervising Civil Engineer III —
(626) 458 7837 —
Contact Simin Agahi
Land Development Division
(626) 458 4915

Orange County, PFRD

Contact Tom McCabe ✓
Senior Civil Engineer, Road Program
(714) 834 3561
Contact Peter Dalquist R
Engineering Manager
(714) 567 6282
Contact Phillip M. Jones
Flood Control Design
(714) 834 2599

Riverside County Flood Control District

Contact Warren 'Dusty' Williams
Chief Engineer
(909) 922 1200

Riverside County Planning Department

Contact Ron Goldman
Deputy Planning Director
(909) 955 3272

Riverside County Transportation Department

Contact George Johnson
Director of Transportation
(909) 955 6740

San Bernardino Associated Governments

San Bernardino, CA
Contact Arlis Childs
Program Manager
(909) 889 8611

Santa Margarita Water District

Contact Jamie Aguilar
Bond Project Engineer
(949) 459 6420

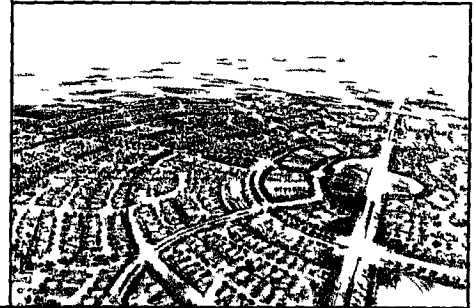
Yorba Linda Water District

Contact Ken Vecchiarelli
Engineering Manager
(714) 777 9593



Hall & Foreman, Inc.

▲ Civil Engineering • Planning • Surveying • Public Works



COMPANY FACTS

Year Founded	1961
Office Locations	420 Exchange, Suite 100 Irvine, CA 92602 Phone (714) 665-4500 Fax (714) 665-4501 9130 Anaheim Place, Suite 120 Rancho Cucamonga, CA 91730 Phone (909) 484 9090 Fax (909) 484 9084 43513 Ridge Park Drive Temecula, CA 92590 Phone (951) 676 6726 Fax (951) 699-0896 20950 Warner Center Lane, Suite A Woodland Hills, CA 91367 Phone (818) 251 1200 Fax (818) 251 1201 www hfinc com info@hfinc.com
Employees	180 + Employees Including 31 Registered Civil Engineers 8 Licensed Land Surveyors 3 Planners
Disciplines	Land Planning/Entitlement Residential/Commercial/Industrial Site Development Construction Staking/Management/Inspection Land Surveying Landscape Architecture Municipal/Public Works Agency Engineering Investigative Engineering
Principals	John Hogan, P E , Chief Executive Officer Alan Palermo, P E , President/South Coast Division Jon E Bourgeois, P E , President/Inland Empire Division Mark Miner, President/L A , Ventura Division Don Lohr, President/Temecula Division Steve Shambeck, P L S , Vice President/Surveying and Mapping Lou Ann Frederick, Vice President/CFO
Computer Systems	Fully networked P C s, Client Server Wide Area Network

COMPANY HISTORY & OVERVIEW



For more than 40 years, Hall & Foreman, Inc (HFI) has provided exceptional engineering, land planning, and surveying services that have built a better Southern California

HFI was founded in 1961 by Jack Hall, former Assistant Public Works Director and City Engineer of the City of Santa Ana. The firm incorporated in 1963 after Hugh Foreman, Santa Ana's former Public Works Director, and George Shambeck, Orange County Flood Control District's Senior Right of-Way Engineer, joined Mr. Hall. Passed on to a new era of engineers and entrepreneurs, the company principals currently are, John Hogan, Jon Bourgeois, Steve Shambeck, Mark Miner, Alan Palermo, and Lou Ann Frederick. George Shambeck remains semi-active with the firm on the Board and as a consultant to the survey and mapping department.

During the last 43 years, HFI has developed successful relationships in the Southern California community with numerous agencies, developers, builders, and other firms that benefit from quality service. HFI provides extensive experience to Clients including

Professional Services

- Aerial Topographic Mapping Control Surveys
- Assessment District Engineering
- Capital Improvement Projects
- Community Planning/Specific Plans
- Construction Staking
- Construction Management/Inspection
- Design, Alignment, and Route Surveys
- Entitlement Coordination
- Grant Applications, Research, and Design Reports
- Drainage and Flood Control Design
- Highway/Freeway Engineering
- Hydraulics/Hydrology Studies
- Investigative Engineering
- Infill Development
- Land Use Planning
- Landscape Architecture
- Maintenance District Engineering
- Map Check Consulting
- Master Plans for Infrastructure
- Plan Check Consulting
- Plans, Specifications, and Estimates
- Redevelopment Projects
- Right of Way Engineering
- School Facilities
- Sewer and Water Improvements
- Standards and Specifications
- Standard Plans Development
- Street Infrastructure Design
- SWPPP/NPDES Services
- Topographic Surveys
- Traffic Engineering
- Transportation Planning
- Water Quality Management/Engineering
- Water Resources Engineering

ADDITIONAL INFORMATION

Declaration of Heroic Client Services

Client's project success is the focus of HFI's Declaration. HFI strives to understand Client's project expectations and meet project goals. To ensure the success of the Client's projects, HFI commits to provide the following six elements of service:

Schedule

- HFI establishes a mutually agreed upon project schedule that identifies milestones for the deliverables and provides status reports and schedule updates on a regular basis.

Client Communication

- HFI communicates with Clients based on their preferences and expectations.
- HFI returns phone calls and e-mails within four working hours.
- HFI prepares and distributes minutes of project meetings.

Internal Communication

- HFI's project team members meet weekly to discuss project concerns, review project status, and communicate with each other to ensure Client's expectations and project goals are met.

Quality

- HFI's internal QA/QC process ensures accuracy of work product.
- Client's projects are reviewed by a senior staff member prior to each milestone submittal.

Completeness

- HFI completes the project design prior to submitting the plans to the approving agency in order to minimize agency review and processing time periods.
- HFI discusses with Clients any potential changes to the design that might impact plan submittal to the approving agency.

Advocacy

- HFI provides Clients with recommendations, initiatives, tactics, and approaches to best represent Client interests and ensure the success of the project.
- HFI advises Clients of potential cost and/or time saving options to assist in decision making efforts.

Quality Assurance Program

HFI has an established Quality Assurance/Quality Control (QA/QC) Program that applies to all work product prepared by the firm. The emphasis of the program is on delivering high quality products and services that are cost effective and timely.

HFI's QA/QC Program is closely monitored and includes the following elements:

- A Principal of the Firm responsible for QA/QC.
- A thorough evaluation of the project's scope of work prior to commencing technical work to establish a work plan and a firm budget, thus eliminating any "surprises" during the course of the contract.
- Meeting with the Client's Project Manager at scheduled intervals to review the status of the project and address issues identified in the design process and QA/QC reviews. HFI stresses frequent and open communication between the project team and the Client's representatives.
- Frequent technical review sessions with Principals to evaluate the quality of the work product.
- Utilizing current software to prepare work product and map out the workflow for timely completion of services.
- Utilizing an in-house computer cost control system providing project team members with weekly updates on the project status, percentage of work completed, and manhour costs and expenses.



ADDITIONAL INFORMATION

Professional Affiliations

- AIA American Institute of Architects
- APA American Planning Association
- APWA - American Public Works Association
Southern California Chapter
- ASCE American Society of Civil Engineers - Los
Angeles Section, Orange, Riverside/San
Bernardino Counties
- AUGI Autodesk Users Group International
- BDA Business Development Association
Orange County and Inland Empire
- BIA Building Industry Association Orange
County, Los Angeles/Ventura, Baldy View,
Riverside, and Desert Chapters
- CLSA California Land Surveyors Association
- CELSOC - Consulting Engineers and Land
Surveyors of California Orange, Riverside and
San Bernardino Counties
- C3 Civil CAD Consortium
- HBC Home Builders Council
- ICSC - International Council of Shopping
Centers
- NAIOP - National Association Industrial and
Office Properties
- OCEC Orange County Engineering Council
- OCWA Orange County Water Association
- SHC Senior Housing Council
- SHPE - Society of Hispanic Professional
Engineers
- ULI - Urban Land Institute

Financial Condition

HFI, a California corporation, is in good standing and is fully insured. Although privately held and not required by law, the records and receipts are reviewed annually by a group of certified public accountants to attest to HFI's reliability. All taxes are paid on time and there are no judgments or liens outstanding.

HFI has a strong credit profile, is able to obtain capital as needed, and operates in a manner that facilitates the Client's project needs. HFI uses the leading industry project management/financial software and monitors costs in order to manage the pricing of contracts.



Disadvantaged Business Enterprise

In order to meet the requirements of many public works projects, HFI maintains relationships with several highly qualified firms owned by minorities, disabled veterans, and women. As required by various Requests for Qualifications, these firms are provided with opportunities to perform services on many of HFI's projects. HFI supports this policy both in spirit and with action.

Equal Opportunity

HFI maintains an Affirmative Action Plan and provides education and information to the firm's management to assure proper implementation of the Plan. HFI does not discriminate against any employee or applicant for employment because of race, color, sex or national origin.

VISION, GOALS, & CORE VALUES

HFI is a consulting firm providing professional civil engineering, surveying, planning, and landscape architecture services for the purpose of creating significant tangible value for Clients

Vision

HFI's vision is to grow and be the company of choice by

- Being a Recognized Industry Leader
- Creating Value for Clients
- Creating Long Term Relationships
- Providing a Stimulating and Rewarding Work Environment
- Capitalizing on Opportunities to Strengthen the Company

Goals

HFI is driven by the following goals

- Providing Comprehensive Professional Services to Clients
- Executing HFI's Services to Achieve a Reasonable Profit
- Maintaining a Financially Healthy Firm
- Providing for the Continuity of the Firm

Core Values

HFI's core values include

- Open and Honest Communication
- Respect and Integrity
- Superior Client Service
- Providing an Enjoyable Work Atmosphere
- Recognizing Individual and Team Contributions
- Committing Corporate Resources to Benefit Local Communities

CONSTRUCTION MANAGEMENT & INSPECTION

HFI's depth of construction management and inspection expertise allows us the flexibility and responsiveness to meet each project's specific requirements. HFI has over 23 years of experience managing capital improvement projects such as roadway, parks, sewer, water, and stormdrain with local, state, and federal fund requirements. Typical inspection projects include roadway widening and rehabilitation, parks, skate parks, traffic signalization, and investigative engineering.

Services.

- ♦ Constructability reviews
- ♦ Pre construction support
- ♦ Construction Inspection
- ♦ Shop drawing reviews and punch lists
- ♦ Identification of construction deficiencies
- ♦ Dispute mediation and resolution
- ♦ Materials testing and certification monitoring
- ♦ Daily inspection logs and detailed project photo logs
- ♦ 'As built' final design drawing revisions
- ♦ Construction management
- ♦ Federal and state contract and report compliance
- ♦ Wage and benefit compliance monitoring
- ♦ Evaluation of change order requests
- ♦ Progress payment review
- ♦ Contract administration
- ♦ Conduct pre bid meetings
- ♦ Contract review
- ♦ Bid analysis



Representative Projects:

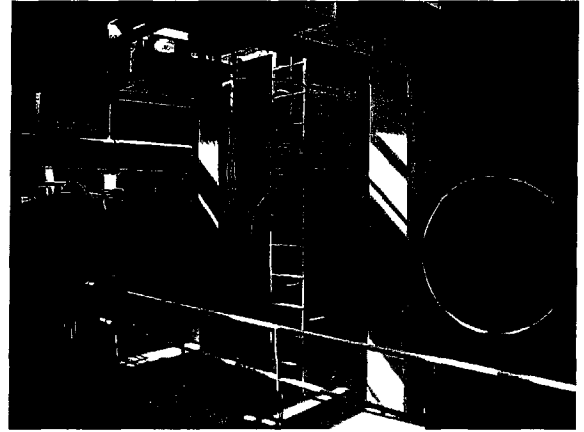
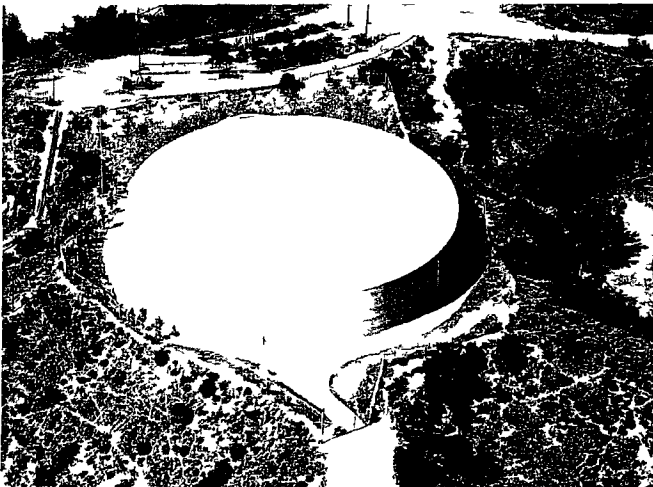
- Contract Administration Cathedral City
- On Call Services - Yucaipa
- Various Inspection Services - Diamond Bar
- Golden Spring Road Widening/Rehabilitation - Diamond Bar
- Cedar & Chestnut Water Main Conversion Long Beach Water Department
- Skate Park Phase II Park Expansion - Yucaipa
- Chapman Heights Development Yucaipa
- LB4 & LB8 Flow Control Valve & Concrete Vault Improvements Long Beach Water Department
- Sewer Construction & Rehabilitation Projects - Yorba Linda Water District
- Imperial Highway Widening/Rehabilitation Brea
- Brea Boulevard Widening/Rehabilitation - Brea
- All Local Streets Widening/Rehabilitation - Brea
- Master Plan for Sewer, Water, and Stormdrain Improvements Brea
- Fairplex Drive Widening/Rehabilitation Pomona
- 12 Phase Water Conversion Project - Brea
- Jeronimo Road Widening - Lake Forest
- Heartwell Park Long Beach Water Department
- El Cajon Trunk Sewer - Yorba Linda Water District
- The Strand Manhattan Beach
- Pioneer Road Park Tustin

DOMESTIC & RECLAIMED WATER SYSTEMS PLANNING & DESIGN

HFI offers extensive resources and experience in planning, design and construction administration for domestic and reclaimed water related projects

Services.

- ♦ Citywide master planning
- ♦ Water supply planning
- ♦ Hydraulic modeling
- ♦ Demand analysis
- ♦ System sizing and layout
- ♦ Preparation of plans, specifications, and estimates
- ♦ Value engineering
- ♦ Reservoir alternative siting analysis
- ♦ Pump station design
- ♦ Permitting
- ♦ Contract administration
- ♦ Program management
- ♦ Regulatory compliance strategies
- ♦ Funding strategies to leverage available federal and state funding sources



Representative Projects:

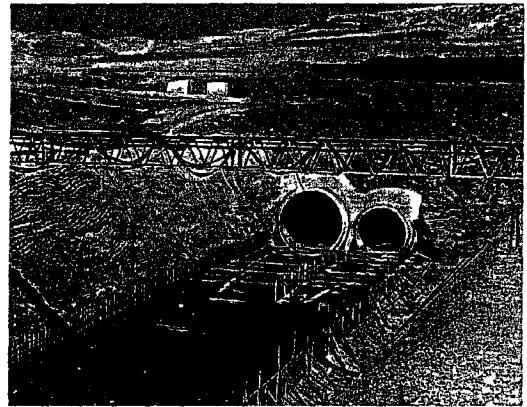
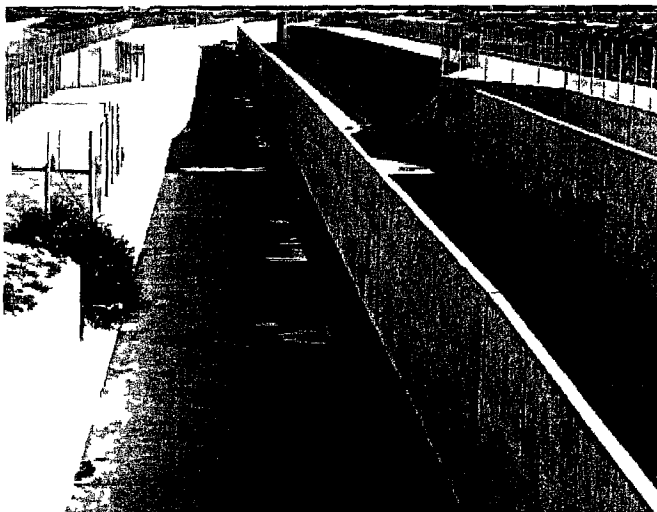
- Alley Conversions Long Beach Water Department
- Ladera Ranch Plan of Works/Report Rancho Mission Viejo
- Zone I & II Domestic & Reclaimed Water Transmission Mains Santa Margarita Water District
- Transmission Mains and In tract Distribution Systems Ladera Ranch
- Baseline Domestic Water Transmission Main Azusa
- City Water Systems Master Plan - Placentia/Yorba Linda
- Citywide Master Plan - Brea
- Village of Heritage Master Plan Cucamonga County Water District
- Carbon Canyon Road (SR142) Brea
- Antonio Parkway Domestic Water Transmission Main Orange County
- Westside Reservoir Brea
- Eastside Reservoir Brea
- Carbon Canyon Pump Station Nos. 2 and 3 Brea
- Water Main Replacement Program Anaheim
- Mountain View Business Park Transmission Main Azusa
- Owl Rock Site Transmission Main Azusa
- Granada Court Ontario

DRAINAGE & FLOOD CONTROL

HFI offers management, planning, and design services for drainage and flood control projects

Services:

- Watershed studies and master plan development
- Hydrologic and hydraulic modeling
- Analysis and design of collection systems and storage facilities
- Hydraulic structures design
- Sedimentation and erosion control design and inspection
- Risk management
- Value engineering
- Preparation of plans, specifications and estimates
- Stormwater management facilities inspection
- Public information and involvement program
- Program management
- Permitting
- Detention basin design
- SWPPPs
- BMP selections
- Regulatory compliance strategies
- Funding strategies to leverage available federal and state funding sources



Representative Projects:

- Water Quality Catch Basin Standard Drawings - Los Angeles County Department of Public Works
- Master Drainage Plan - Tejon Ranch, Centennial
- Master Drainage Plan - Fontana
- Master Drainage Plan - Brea
- Covenant Hills Master Plan of Drainage - Rancho Mission Viejo, Ladera Ranch
- Horno Creek Preliminary Design Report & Final Design - Rancho Mission Viejo/Orange County
- Skyline Drive Storm Drain Phase 1 and 2 - Orange County PFRD
- Baldwin Park CIP 621, MTD 1493 Relief Drain - Baldwin Park
- San Sevaine Creek/Etwanda Creek Double Channel - Fontana
- Imperial Highway - Brea
- Village of Heritage Storm Drains - Fontana
- Channel Repair Projects - Orange County
- Empire Center CFD 90.3 - Fontana
- Lomita Boulevard Storm Drain - Los Angeles City
- Master Sediment Control Plan - Rancho Mission Viejo, Ladera Ranch
- Covenant Hills Storm Drains - Rancho Mission Viejo, Ladera Ranch
- Master Drainage Plan - Marr Ranch, Simi Valley
- Master Drainage Plan - Mountain Glen II, Los Angeles
- Wolf Creek Channel - Riverside County
- Diamond/Crestview Storm Drain - Laguna Beach

INFILL/ REDEVELOPMENT

As vacant land for new developments diminish in Southern California communities, redevelopment agencies are encouraging the conversion of commercial and industrial buildings into residential structures. This renaissance of downtown districts is moving forward with great intensity. Infill and mixed use projects offer interesting challenges including maneuvering through the intricate web of city ordinances and regulations, while working with governmental representatives. Major developers and cities rely on HFI's expertise and capabilities to take the lead in these redevelopment processes. HFI is currently playing an integral part in conversions from commercial/industrial buildings into upscale living and working units.

Services*

- Feasibility Studies
- Entitlement and Permit Expediting
- Boundary and Topographic Survey
- Condominium Plans
- Tentative and Final Maps
- Final Engineering Plans
- Construction Survey
- Agency and Builder Coordination
- Maintenance District Engineering
- Zone Case Development



Representative Projects*

- The Lee Group's Flower Street Lofts- Downtown Los Angeles *UPS building conversion on 12th and Flower Streets into 91 live in, working condominium units*
- The Lee Group's 11th and Grand- Downtown Los Angeles *UCLA auxiliary office and classroom building conversion into live in working condominium units*
- Toy Factory Lofts- Downtown Los Angeles *Warehouse building conversion into 135 artists in residence condominium units*
- Kor Group's Molino Lofts- Downtown Los Angeles *Warehouse, apartment units, and parking structure building conversion into 95 artists in residence condominium units*
- Trammel Crow's Alexan Savoy- Downtown Los Angeles *440 new apartment units on 1st and Alameda*
- The Lee Group's Bay City Lofts- Venice *Industrial building conversion into five artists in residence condominium including two new additions*
- RAD Venice's Venice Art Lofts- Venice *Construction of 49 new artists in residence condominium units on Main Street*
- RAD Venice's Dog Town Station- Venice *Construction of 33 new artists in residence condominium units on Main Street*
- The Kor Group's Myra Street Lofts- Hollywood *Construction of 46 new live-in, working condominium units on Myra Street and Sunset Avenue*
- The Kor Group's Eastern Columbia Building- Los Angeles *Adaptive Reuse Project - Existing vacant 13 story office building to remain, construction of 147 joint live work units located at 849 Broadway at corner of 9th & Broadway*

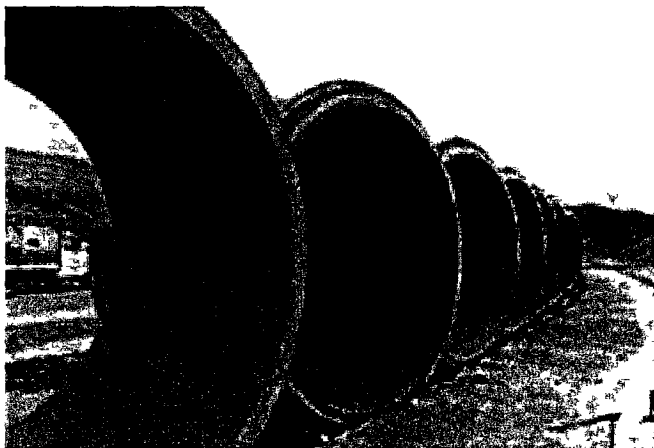


INFRASTRUCTURE FUNDING

HFI assists agencies in selecting the best public financing solution for funding infrastructure improvements and maintenance. HFI's team is experienced in forming special financing districts and conducting successful community relations programs to ensure public support. HFI also provides assistance to agencies to acquire infrastructure financed by bonds and constructed by developers.

Services.

- Infrastructure assessment districts
- Utility undergrounding districts
- Infrastructure acquisition audit services
- Sewer and storm drain maintenance fees
- Landscaping and lighting maintenance districts
- Storm water maintenance fees
- Government grants/funding
- Feasibility studies
- Capital improvement budgets
- Community relations/outreach
- Contract administration



Representative Projects:

- Live Oak/Arrow Highway Reconstruction
Assessment District Irwindale
- Assessment District No. 94-05 (Diamond Crest
Sewers) Laguna Beach
- Lighting and Landscape District Brea
- Sewer Maintenance Charge - Irwindale
- Sewer Assessment District Nos. 99-01 and 99-02
Yorba Linda Water District
- Community Facilities District No. 2000-1 (Rio
Vista) Cathedral City
- Community Facilities District No. 1 (Amerige
Heights) Fullerton
- Landscape Maintenance Districts No. 22, 24, 27
& 32 Calabasas
- Utility Undergrounding Districts Manhattan
Beach
- Assessment Districts Irvine
- Pioneer Road Park Tustin
- Developer Reimbursements Yucaipa

MUNICIPAL ENGINEERING

HFI's public works division provides a full complement of municipal engineering services to agencies and Clients. The division has catered to public and private sector Clients on a project specific and an on call basis for over 20 years.

Services

- ♦ Construction management
- ♦ Construction inspection and administration
- ♦ Project management
- ♦ Funding assistance
- ♦ Public counter support
- ♦ Plan and map checking
- ♦ Tentative map reviews
- ♦ Review/provide conditions of approval
- ♦ SWPPP reviews
- ♦ Storm water management
- ♦ NPDES conformance
- ♦ Capital Improvement Projects (CIP)

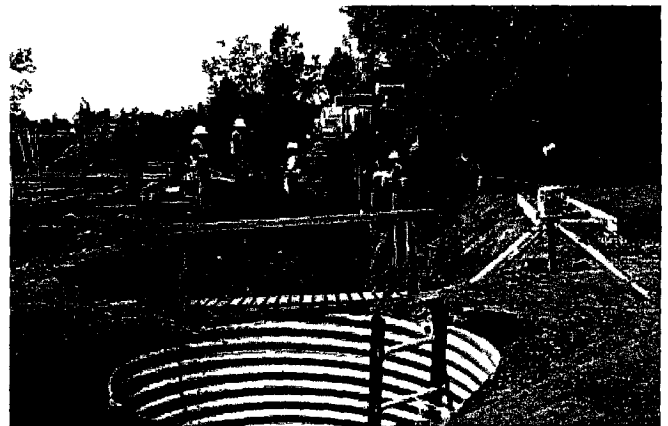


Representative Projects.

- Nexus Intersection Study Brea
- Master Plan of Arterial Roadway Infill Study Moreno Valley
- Plan Checking for Public Works and Building Department - Tustin
- CBDG Access Ramp and Sidewalk Improvement Design Services Diamond Bar
- Plan Check and Construction Inspection for Chapman Heights Development Yucaipa
- 8th Street and Avenue 'E' Safe Route to School Project Design Services - Yucaipa
- Design of Yucaipa Boulevard Pavement Rehabilitation from 7th Street to 11th Street Yucaipa
- Plan Checking for Private Residential Projects Diamond Bar
- SUSMP Reviews Diamond Bar
- Peer Reviews City of Laguna Niguel
- Preparation of Design Standards and Guidelines for Grading and Public Works Construction Yucaipa
- On Call Private Development Plan Checking Services Murrieta
- Pioneer Road Park Construction Management and Inspection Tustin
- Flow Control Valve and Concrete Vault Improvements Construction Management and Inspection Long Beach Water Department
- Alley Water Main Conversion Construction Management and Inspection Long Beach Water Department
- Flow Control Valve and Concrete Vault Improvements Construction Management and Inspection Long Beach Water Department
- Wardlow Road Transmission Conversion Inspection - Long Beach Water Department
- WQMP Reviews - Brea and Tustin
- Peters Canyon Trail Realignment Design Services Tustin
- Assessment District Engineering Services Irvine
- Foothill Boulevard Street Reconstruction Fontana

MUNICIPAL ENGINEERING

- 9th Street Reconstruction Upland
- Assessment District No 2001 01 Cathedral City
- Assessment District No 95 01 (East Coyote Hills) Fullerton
- Underground Utility Assessment Districts Manhattan Beach
- Tentative and Final Map Reviews for the Tustin Legacy Tustin
- Water Quality Catch Basin Standard Drawings Los Angeles County Department of Public Works
- District Sewer Engineer - Yorba Linda Water District
- Sewer Master Plan Update Region - Yorba Linda Water District
- Covenant Hills/Ladera Ranch Plan of Works for Sewer, Domestic Water, and Reclaimed Water Santa Margarita Water District
- Property Corner Surveys Tustin
- Slope/Side Remediation Investigations and Design Repair
- SWPPP and Erosion Control Plan Design County of Orange
- SWPPP and Erosion Control Plan Reviews Yucaipa, Tustin, Brea, Diamond Bar, and Murrieta
- Part time Counter Support Tustin
- Carbon Canyon Park Entrance Relocation Design Services Brea/County of Orange
- Map Checking County of Los Angeles
- Map Checking County of Orange



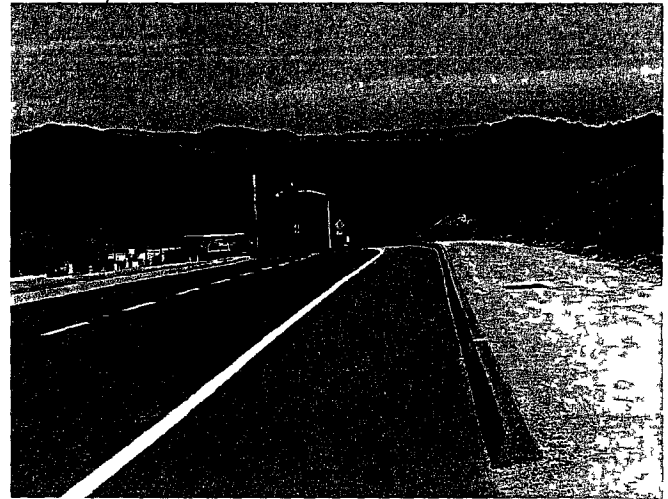
RIGHT - OF - WAY ENGINEERING

With a combination of state of the art technology and well trained, experienced staff, HFI can provide a wide variety of right of way services to Clients

Services

- ♦ Right-of way appraisal and final maps
- ♦ Appraisal exhibits
- ♦ Legal description and plats
- ♦ Surveying Services

Since 1961 HFI has been involved in numerous private and public works infrastructure projects that have required detailed right of way engineering services. Many of these projects have also included other civil engineering services performed by HFI. Recent projects range from local street improvements to major freeway widening services.



Representative Projects:

- On-Call Right of Way Engineering OCTA
- Interstate 5 Right of Way Mapping OCTA/Caltrans
- Foothill Boulevard Surveying and Right-of-Way Mapping - Fontana/Caltrans
- State Route 30 Surveying and Right of Way Mapping SANBAG/CALTRANS
- Interstate 405 Right-of Way Mapping OCTA/HNTB/Caltrans
- Mountain Street Design Topo and Staking - Tustin
- Fairplex Drive Design Topo and Staking - Pomona
- Santa Ana River Improvement Mapping - Riverside, Orange, and San Bernardino Counties
- Summit Avenue Surveying and Right of Way Mapping Fontana
- El Centro Gas Line Surveying and Right of Way Mapping Southern California Gas Co
- Carbon Canyon Road Surveying and Right of Way Mapping Brea/Caltrans
- Imperial Highway Surveying and Right of-Way Mapping Brea/Caltrans
- Highway 111 Surveying and Right of Way Mapping La Quinta/Caltrans
- Washington Avenue French Valley Area of Riverside County

ROADWAY PLANNING, DESIGN, & CONSTRUCTION

HFI's roadway experience encompasses the full range of disciplines necessary for successful project completion including planning, design, project management and construction services

Services:

- ♦ Preparation of plans, specifications, and estimates
- ♦ Plan check and constructability reviews
- ♦ Feasibility studies and report preparation
- ♦ Transportation planning
- ♦ Design deviations fact sheets
- ♦ Traffic signal design
- ♦ Construction management and inspection
- ♦ Design and construction surveying
- ♦ Utility coordination, relocation and design
- ♦ Value engineering
- ♦ Traffic control and construction staging plans
- ♦ Erosion and sediment control planning and design
- ♦ Traffic detour plans
- ♦ Right-of-way engineering



Representative Projects:

- The Strand Walkway Improvements Manhattan Beach
- Carbon Canyon Road SR142 Brea
- Antonio Parkway - Orange County
- Imperial Highway SR90, ISTE A Project Brea
- Chase Drive Improvements Corona
- Jeronimo Road/Rollingwood Road - Lake Forest
- Live Oak Avenue and Arrow Highway - Irwindale
- Golden Springs Road, ISTE A/TEA 21 Project Diamond Bar
- Fairplex Drive/I 10 Street Widening and Roadway Rehabilitation - Pomona
- Foothill Boulevard SR 66 - Fontana
- Summit Avenue Fontana
- Fairview Road Rehabilitation Costa Mesa
- A,B,C Streets and Mountain View Tustin
- Diamond/Crestview Improvements Laguna Beach
- Highway SR 111 La Quinta
- Clearglenn et al Rehabilitation Los Angeles County
- Orangethorpe/Rose Drive Intersection - Placentia
- Millikan Avenue Rancho Cucamonga