NOTABLE PROJECTS:

SFO Bay Bridge - New Eastern Span Construction & Old Span Demo - Oakland, CA
Prepared excavation shoring systems for new footing placement, rebar cage erection templates and stabilization systems, 150'-tall structural support towers, enclosed scaffold and suspended platform systems, falsework/formwork designs, tower crane foundations, and performed multiple site inspections and other misc design services.

BNSF Mainline Project – Gardner, KS
Prepared various three sided slide rail and sheeting guide shoring submittals in strict accordance with the BNSF RR guidelines, to allow for work on concrete culverts.

I-405 Sepulveda Widening – Los Angeles, CA
Designed various tied-back cantilver, raker-braced and internal braced beam and plate shoring systems to allow for new footing and abutment construction at carious bridge widening. Services also included peer review, on-site inspection, and rebar cage column stability designs.

CORPORATE OFFICE:
4706 Hoen Ave, Santa Rosa, CA 95405       P: 707.537.8282      f: 707.537.8338

EXCAVATION SHORING DESIGN
PE LICENSED IN ALL 50 STATES & VARIOUS CANADIAN PROVINCES

SHEET PILE SYSTEMS
COFFERDAM DESIGN
BEAM & PLATE/LAGGING
SLIDE RAIL SYSTEMS
TUNNELING & BORE PIT DESIGN

RAILROAD SHORING SUBMITTALS
SECANT WALL SHAFTS
SOIL NAIL & TIE-BACK DESIGN
HYDRAULIC WALERS
SLOPE STABILITY & OPEN CUTS
D.H. Charles Engineering, Inc.
is a civil/structural engineering firm
specializing in providing construction engineering
services to contractors throughout the United States
and Canada. The firm, which was founded in 1992, is
owned and managed by Jasper Calcara, P.E., who has
design, consulting, and field inspection experience on
thousands of projects since 1998.

We are distinguished from other engineering
firms by the following:

- A professional and experienced staff of eleven engineers
  ensures projects are prepared efficiently and accurately by
  qualified personnel.
- PE stamp in all 50 states, Washington D.C., Ontario, Alberta,
  British Columbia, Manitoba, Saskatchewan, Newfoundland and
  Labrador.
- Focus on innovative solutions and problem solving, by relying
  on vast design experience and knowledge of state-of-the-art
  technologies.
- Dedicated to providing immediate and emergency response,
  with many critical designs turned around the same day.
- A one-stop-shop, offering a wide range of construction
  engineering services to satisfy all of our clients’ needs on even
  the largest projects.
- Services specifically tailored to satisfy clients in all time zones
  using electronic submittals, flexible hours, and prompt
  response to all inquiries.
- Onsite inspection, certification, coordination, and data
  collection services available.

More Project Photos and Details Online.

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ENGINEERING SERVICES PROVIDED

Sheet Pile Systems

Cofferdams
  • Tremie slab design

Beam & Plate/Lagging

Slide Rail Systems

Railroad Shoring Submittals
  • Cooper E80 loading
  • Sheet pile, beam & plate, slide rail
  • Deflection analysis

Secant Pile Systems

Bore Pit & Tunneling
  • Thrust blocks & estimated jacking forces
  • Casing & pipe checks

Hydraulic Waler Systems

Circular Shaft Design
  • Reinforced concrete
  • CMP
  • Liner plate
  • Rib & lagging

Trench Shields

Soil Nail & Tie-back Design

Open Cuts & Slope Stability Analysis

Falsework, Formwork & Reshore

Bridge Jacking, Access & Containment

Crane, Rigging & Rebar Cage Stabilization

Scaffold Design

Demolition & Bridge Removal
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