

RESUME

MARTIN W. RITCHIE

Senior Engineering Technician
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Married 31 years
One 31 year old son
Age 50

EDUCATION

Graduate, Litchfield High School, 1974
Litchfield, IL
Certified Intergraph Training, 1982
Tallahassee, FL

EMPLOYMENT

Hirst and Rosche Engineers
Hillsboro, IL
1976-1980

Figg and Muller Engineers
Tallahassee, FL
1980-1985

LoBuono, Armstrong and Assoc.
Tallahassee, FL
1985-1994

Steinman Engineers
Tallahassee, FL
1994-1995

JMI Engineers
Tallahassee, FL
1995-1997

Daniel, Mann, Johnson and Meddenhall Engineers
Tallahassee, FL
1997-1999

Finley McNary Engineers
Tallahassee, FL
1999-2002

Currently working at home as contract laborer.
2002-Present

PREFACE

With my years of experience, I am able to take a project through all stages of production, from Concept through Shop Drawing phase, from the simplest to the most complicated task with minimal direction. My years of experience have made me very versatile to adapting to Company CAD and DOT standards and knowledgeable of the Engineering and Construction industry and terminology.

SUMMARY OF EXPERIENCE

Thirty years of plan preparation and detailing experience for all aspects of structural and civil engineering projects, including reinforced concrete, steel structures, post-tensioning, deck drainage, culverts, storm sewers, outlet control structures, retaining walls, roadway plans, site plans, erection equipment, quantities and shop drawings. Have extensive experience in developing geometry controls, post-tensioning and steel reinforcement plans for major concrete segmental box girder and cable-stayed bridges, AASHTO girder bridges, steel and wooden railroad trestles, precast plank and wooden beam bridges. The first six years of experience were on a drafting table using drafting tools to produce ink and pencil drawings. Have been detailing, using Intergraph/Microstation and AutoCAD for the past twenty-four years. GEOPAK REBAR detailing for the past six years.

During this period of time I have become proficient with running programs, working with and creating spread sheets, using Microsoft Excel. Have also supervised and been responsible for project plan production, quality control and teaching plan preparation with the use of Microstation and AutoCAD.

DETAILED EXPERIENCE

Segmental Concrete Bridges (Design)

James River Bridge, Richmond, Virginia.

Assisted with the preparation of plans, including placement of post-tensioning and reinforcement and supervised detailing. Also assisted in developing geometry control for superstructure segments.

Escatawpa River Bridge, Moss Point, Mississippi.

Assisted with the preparation of plans, including placement of post-tensioning and reinforcement and supervised detailing. Also assisted in developing geometry control for superstructure segments.

Scottsboro Bridge, Scottsboro Alabama.

Assisted with the preparation of plans, including placement of post-tensioning and reinforcement and supervised detailing. Also assisted in developing geometry control for superstructure segments.

Sunshine Skyway Bridge, Tampa, Florida.

Assisted with the preparation of plans, including placement of post-tensioning and reinforcement. Also assisted with preparation of detailed shop drawings for the segmental portion of project.

Wiscasset-Edgecomb Bridge, Maine.

Assisted with the preparation of plans, including placement of post-tensioning and reinforcement.

Roosevelt Boulevard Bridge, Stuart, Florida.

Prepared plans on eighty percent of project including placement of post-tensioning, reinforcement and developed geometry controls. Also supervised detailing and design.

Surabaya-Madura Bridge, Indonesia.

Prepared plans on one hundred percent of project including placement of post-tensioning and reinforcement.

Jewfish Creek Bridge, Key Largo, Florida.

Prepared plans on eighty percent of project including placement of post-tensioning, reinforcement and developed geometry controls. Also supervised detailing.

Segmental Construction Engineering

Escambia Bay Railroad Bridge, Pensacola, Florida.

Assisted with the preparation of detailed superstructure reinforcement shop drawings.

Illinois North-South Tollway, Downers Grove, Illinois.

Prepared detailed post-tensioning shop drawings for four segmental box girder bridges.

Washington Metropolitan Area Transit Authority, Washington, D.C.

Prepared detailed post-tensioning shop drawings for twin segmental box girder bridges.

Cochrane Bridge, Mobile, Alabama.

Assisted with the preparation of plans for form traveler and segment lifting frames.

I-526 Bridge over Cooper River, Charleston, South Carolina.

Assisted with the preparation of plans for detailed deck reinforcement.

I-75/I-20 Interchange, Atlanta, Georgia.

Prepared detailed post-tensioning shop drawings and reinforcement shop drawings for deviation blocks for sixteen cast-in-place box girder bridges.

H-3 Viaduct, Hawaii.

Assisted with the preparation and supervised detailing of superstructure reinforcement shop drawings for twin box girder bridges.

Bangkok Mass Transit, Bangkok, Thailand.

Prepared pier segment shop drawings.

Bang Na-Bang Pli Bang Pakung Expressway, Bang Na, Thailand.

Prepared pier segment shop drawings.

Evans Crary Sr. Bridge, Stuart, Florida.

Prepared pier segment shop drawings.

Boston Central Artery/Tunnel Project, Boston, Massachusetts.

Prepared straddle bent shop drawings and assisted with the preparation of typical segment shop drawings.

Route I-895 Connector, Virginia.

Prepared pier segment shop drawings and assisted with the preparation of typical segment shop drawings.

Palm Beach International Airport Interchange, Palm Beach, Florida.

Prepared pier segment shop drawings and assisted with the preparation of typical segment shop drawings.

Memorial Causeway, Pinellas County, Florida.

Prepared pier segment shop drawings.

Benicia Martinez Bridge Replacement, Martinez, California.

Prepared hinge segment shop drawings and shop drawings for two C.I.P. superstructure units.

SFOBB Skyway, San Francisco, California.

Assisted with the preparation of typical segment shop drawings.

Ernest Lyons Bridge, Martin County, Florida.

Assisted with the preparation of typical segment shop drawings.

Miscellaneous (Design)

Acosta River Bridge, Jacksonville, Florida.

Assisted with the preparation of plans including geometry control, post-tensioning and reinforcement for mutable steel beam and box girder bridges.

I-75 Alligator Alley, Collier County, Florida.

Assisted with the preparation of plans for eighty-six AASHTO bridges, including geometry control and reinforcement.

Ochlockonee Bay Bridge, Panacea, Florida.

Assisted with the preparation of plans for AASHTO bridge, including geometry control and reinforcement.

SR-76 Bridge Replacement, Martin County, Florida.

Assisted with the preparation of plans for seven AASHTO bridge, including geometry control and reinforcement.

Branan Field/Chaffee Road Bridges, Jacksonville, Florida.

Prepared plans on one hundred percent of project for two AASHTO bridge, including geometry control and reinforcement.

Christa McAuliffe Bridge, Brevard County, Florida.

Assisted with the preparation of plans for two bascule bridges, including geometry control and reinforcement.

Jewfish Creek Bridge, Key Largo, Florida.

Prepared plans on eighty percent of project including geometry control and reinforcement for twin AASHTO bridges. Also supervised detailing.

Woodrow Wilson Memorial Bridge, Maryland.

Assisted with the preparation of plans.

17th Street Bridge Drainage, Fulton County, Georgia.

Prepared plans for deck drainage of a steel girder bridge including sizing and locating trunk lines, inlets and downspouts.

Chastain Road Bridge Widening, Cobb County, Georgia.

Assisted with the preparation of plans.

Grand Reunion Drive Bridge, Hall County, Georgia.

Assisted with the preparation of plans.

I-85 Retaining Walls, Spartanburg County, South Carolina.

Prepared one hundred percent of plans for 17 retaining walls.

Pedestrian Bridge at Tower Road, Cobb County, Georgia.

Prepared one hundred percent of plans for layout and footing details.

Jennings Mill Parkway Retaining Wall, Athens-Clarke County, Georgia.

Prepared one hundred percent of plans for retaining wall.

Parkstone at the Bridges Headwalls/Wingwalls, Forsyth County, Georgia.

Prepared one hundred percent of plans for culvert headwalls and wingwalls.

Brandon Hall Detention Pond Retaining Wall, Georgia.

Prepared one hundred percent of plans for retaining wall.

US 27 over SR 34 and Chattahoochee River, Heard County, Georgia, Re-Design of Bents 6 & 7.

Prepared plans for redesign of bents with drilled caissons.

SR 11 over East Fork Little River, Georgia.

Prepared one hundred percent of plans for pipe hangers.

SR 11/US129 over Chattahoochee River, Georgia.

Prepared one hundred percent of plans for steel curb plate.

I-985 and SBCD over SR 53, Hall County, Georgia.

Prepared plans for end bent and made miscellaneous revisions.

Satellite Boulevard, Gwinnett County, Georgia.

Prepared plans and made miscellaneous revisions for retaining walls.

CR456 (Union Hill Road) over SR400, Forsyth County, Georgia.

Prepared preliminary plans for steel girder bridge widening.

Wesley Chapel Road over I-20, Dekalb County, Georgia.

Prepared plans for steel girder temporary bridge.

5th Steet over I-75/I-85, Fulton County, Georgia.

Prepared one hundred percent of plans from preliminary thru final design for a traffic/pedestrian/planter bulb tee bridge and retaining walls.