



PAMELA K. RHYDER

Career Summary:

Project Designer of lighting plan and coordination, cost estimating and bid document preparation. Mrs. Rhyder is extremely proficient with Microstation V8i, Geopak and other various design software and has worked extensively on FDOT and with various other Local Governments, Clients and Railroad Companies in designing Roadway and Railroad projects consisting of roadway/railway design plans, drainage design, signing and pavement marking design, TCP Phasing Plans, landscaping, irrigation, street lighting, Stormwater Pollution Prevention Plans, and utility design. Pamela is very familiar with all aspects of FDOT specification and standards as well as AASHTO's Green Book (Policy on Geometric Design of Highways and Streets) for design and construction.

Contact Information:

- ◆ Email: pam@wi-skies.com
- ◆ Cell: (904) 534-9588

Education:

- ◆ A.A. Florida State College at Jacksonville, 1985

Areas of Expertise:

- ◆ Roadway Design both Horizontal and Vertical
- ◆ Railroad Design both Horizontal and Vertical
- ◆ Civil Site Development
- ◆ MicroStation J, V7, V8i
- ◆ Geopak geometry software
- ◆ SWPPP (Storm Water Pollution Prevention Plans)
- ◆ Utility Coordination & Planning
- ◆ FDOT Plans Production in CAD, Roadway,

Project Summary:

CAD Assistant for Woodruff Road Bypass – Greenville, South Carolina (SCDOT) Wi-Skies is providing a complete lighting design for the Woodruff Road Bypass project, which spans a total of six miles of roadway. Woodruff Road is a highly traveled roadway and experiences extreme congestion during peak travel times. SCDOT is proposing a parallel route to bypass the overly crowded Woodruff Road. The roadway contains ten total roundabouts with four travel lanes with a decorative median for most of the route, along with both a sidewalk and multiuse path. As an additional challenge, this roadway intersects a railroad and crosses under transmission lines. Wi-Skies will be responsible for the lighting the entire parkway limits including photometric calculations, service point coordination, voltage drop calculations, conduit routing, and lighting plan development. Pam assisted with Photometric, Plan and Detail Sheet preparation in accordance with SCDOT requirements.

CAD Assistant for Johns Creek Parkway at Lakefield Dr Roundabout Lighting (City of Johns Creek, GA) This quick response project involves the replacement of an existing intersection with a new roundabout to reduce the severity and frequency of crashes at the busy intersection. Pam assisted in the CAD production of Photometric Plans, Lighting Plans and Detail Sheets.

CAD Assistant for Sandy Springs, GA Roswell Rd RTA Lighting. Wi-Skies is responsible for developing lighting plans for 2.35 miles of Roswell Rd as part of their Road Transit Access program. The highly commercial corridor begins at Meadowbrook Dr and ends at Northwood Dr and includes intersections with Windsor Parkway, Glenridge Dr and Lake Placid Dr. The lighting requires the use of their decorative fixtures (Type A and Type C), placed dependent on their location to driveways, entryways and intersections as visible identifiers both during daytime and nighttime. Pam assisted in CAD production for Photometric Plans, Cable Plans and Installation Details Sheet.

Civil Designer, for I285 at SR 400 Reconstruction Construction Project, Atlanta, GA. Pam prepared Roadway CAD GDOT Plans using MicroStation V8i for "Use on Construction" and "Field Design Changes Plans", as well as creating Traffic Control Diagrams, Detour Layouts, Temporary Shoring Sketches and assisting with Structural Details, among other tasks as needed by the contractors during construction.

All Aboard Florida (aka – Brightline) – Pam was responsible as Lead Designer and Production CAD Manager (of 7 team members in 4 cities) for 30% permitting plans. Pam went on to developed 90% final design plans as the Production Manager role for Construction Plans of a Double Main High-Speed Rail line from Cocoa Beach, FL to about 65+/- miles south to the Indian River- St. Lucie County line.

Palmetto Railways Camp Hall Project – Pam produced multiple concepts of Structural bridge layouts as CAD Designer for a new railroad bridge for Palmetto Railways in Berkley County, SC. Pam also established bridge plan and elevation alternatives for multi-span river crossing bridge. This included public meeting exhibits.

Roadway Designer for Comprehensive Engineering Services Inc., Reconstruction Design Plans US1/Phillips Highway, FL This project involved the reconstruction and widening of US-1 (Phillips Highway) from SR 9A to Sunbeam Road in Jacksonville, Duval County, FL. Pam assisted in the production of drainage analysis and roadway improvement plans.

Roadway Designer for Jacksonville International Airport Access Road Landscaping, Jacksonville, FL Pam developed landscape plans for the new access road and interchange for the Jacksonville International Airport. The plans included an entryway accented with native grasses.



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Roadway Designer for I-295/Collins Road PD&E Study, FDOT District 2 Pam assisted in a Project Development and Environmental Study (PD&E Study) for the proposed new Interstate 295/Collins Road interchange, interchange modification at Blanding Boulevard and improvements for local access to the interstate system from Blanding Boulevard to Collins Road (Collector Distribution system). Her primary role was to perform preliminary engineering analysis for roadway improvements, assist in preparation of the study document and prepare preliminary cost estimates and public involvement materials.

Roadway Designer/Project Data Coordinator for River Crossing Corridor Study (FDOT). Pam participated in a study in order to recommend corridor locations that would be carried forward to more detailed Project Development and future environmental studies. Possible highway corridors were evaluated to provide an improved transportation system connecting Clay and St. Johns Counties across the St. Johns River in northeast Florida. The study also identified and evaluated various environmental, social, and economic impacts for various highway corridors that would provide this connection. She was responsible for producing various drawings, plans and display exhibits for public meetings.

Lead Roadway Designer and CAD Team Leader for US 90/Beach Boulevard Reconstruction Design, Jacksonville, FL (FDOT) Pam was responsible for producing construction plans for the reconstruction of Beach Boulevard in Duval County from the Florida Community College at Jacksonville (FCCJ) entrance to east of San Pablo Road, a project length of approximately 4.5 miles. The project improvements included reconstructing the existing four-lane rural highway section to a six-lane divided urban facility with curb and gutter, bicycle and pedestrian facilities. This project also included Jacksonville Electric Authority, Beach Blvd Water and Sewer Relocation Plans Preparation, Jacksonville, FL. As a Roadway Designer I provided pipe sizing for water and sewer relocations required as part of the utility coordination for the reconstruction of SR 212 (Beach Blvd.) from FCCJ to San Pablo Road in Jacksonville, Duval County, Florida. Prepared the relocation plans detailing location, depth and appurtenances required (tees, fitting, valves, etc.).

Roadway Designer for NC 41 Widening and Resurfacing for NCDOT This project consisted of design services for the widening of approximately 3.2 miles of two-lane roadway, intersection improvements at three intersections, and minor realignment of an intersecting road. Pamela was responsible for lighting plan development, photometric plans, standard specifications and to ensure plans are done in accordance with all State DOT Design Standards and Plan and Presentation Guides.

Roadway Designer for I-595 PD&E Study – Florida Turnpike Pam assisted in conducting a PD&E Study on I-595 between SR 7/US441 and Florida's Turnpike. Primary role was to perform preliminary engineering analysis (plans production) for roadway improvements, assist in preparation of the study document and assist in preparing preliminary cost estimates and public involvement materials.

Lead Roadway Design and CAD Team Leader SR 293/US 98 Intersection Improvement Design in Destin, FL (FDOT) Pamela was instrumental in the design and plans production completion on this extremely aggressive schedule project for a cooperative effort between Okaloosa County, the Mid-Bay Bridge Authority, the FDOT and a private developer. This project consisted of approximately one mile of reconstruction (rural to urban) on S.R. 293 from US98 to the Mid Bay Bridge and approximately one mile of widening and resurfacing on US98 at the intersection with SR293. Work included engineering design and production of roadway construction and maintenance of traffic plans. She assisted with signing and pavement marking plans, signalization plans and utility adjustment plans to be used during construction.

Roadway Designer for University Blvd. Arlington River Bridge Replacement in Jacksonville, FL for FDOT District 2. Ms. Rhyder assisted in developing conceptual alternative bridge alignments and profiles using MicroStation and Geopak as design tool. These designs were included as part of the PD&E study to replace a deficient 950' structural double tee bridge over the Arlington River in Jacksonville, Florida.

Roadway Designer for I-10 Rehabilitation in Gadsden, Jefferson, Leon and Washington Counties, FL (FDOT) Pam produced construction plans associated with the cracking, milling, re-seating and resurfacing of sections of I-10 in Gadsden, Jefferson, Leon and Washington Counties. Plans were to rehabilitate I-10 for the Florida Department of Transportation. Special considerations were given in all situations to ensure that each project would meet current DOT design standards.

Roadway Designer for Abess Road, Chet's Creek and Old Middleburg Road Elementary Schools Pamela assisted in the site development design and produced all of the construction plans these three schools for the Duval County School Board in Jacksonville. Assisted in all phases of permitting through the appropriate regulatory agencies the City of Jacksonville site development approval process. She also monitored pressure test on water mains in the field and attended field inspections.

Roadway Designer for Fouraker Road, Jacksonville, FL Pam produced construction plans for The Fouraker Road project which involved widening and improvements to an existing 2 lane, 2-1/2 mile City Street with 31 intersections. This included using MicroStation and GEOPAK to produce new horizontal plans and vertical profile sheets, drainage structure and maintenance of traffic sheets and cross sections sheets.

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Roadway Designer for I-385 Improvements – SCDOT Pam utilized GEOPAK and MicroStation to produce construction plans for improving and upgrading 7 miles and 4 interchanges on Interstate I-385 between Greenville and Columbia South Carolina working with a consulting engineering firm for the SC Department of Transportation.

Roadway Designer for I-95, Broward County, FL (FDOT) Ms. Rhyder participated in the design of reconstruction and widening of a 1-mile, 3-interchange section of I-95, as well as the arterials Griffin, Sheridan and Sterling Roads. This included using GEOPAK to establish profile grades at the tops of proprietary retaining walls on I-95 at the major intersections.

Roadway Designer for Nine Mile Road for St. Johns County, FL Pam assisted in all phases of CADD Plans Production of the construction plans to upgrade Nine Mile Road over I-95 in St. Johns County. This project was to take a 2 lane rural roadway and transform it into a partial cloverleaf major interchange on I-95 at the Proposed World Golf Village location.

Roadway Designer for St. Augustine Shores Unit 8 Pam assisted in the design and production of construction drawings of Unit 8 of St. Augustine Shores subdivision consisting of more than 160 lots and more than 2 miles of interior roads. This project tied in to Shores Blvd. off US1 in St. Augustine, Florida with water and sewer and force main utilities. Plans also included 5 storm-water ponds and numerous wetland impacts that were addressed/permitted through appropriate agencies.

Roadway Designer for Twin Lakes Academy Middle and Elementary Schools, Duval County, FL School Board Pam produced all construction plans associated with the site development of Twin Lakes Academy Middle and Elementary Schools for the Duval County School Board in Jacksonville, Florida. This project included more than one mile of roadways, a half-mile of which was an offsite three-lane road through a planned commercial development leading from Baymeadows Road to the school property. Plans, profiles, water and sewer, storm drain, cable TV, electric cables, gas lines and a force main were all included in this design project.

Railroad Project Designer for CSX Transportation, Siding Track to Serve KIA, West Point GA Pam performed civil engineering design work and preparation of construction support for a siding track and two storage track installations for use by KIA and their plant being constructed at West Point, GA. Set profile grades, produced construction plans/documents and participated in quantity calculations.

Railroad Project Designer for CSX Transportation, Waycross J02 Siding, Waycross, GA Pam performed all civil engineering design work, estimating, and preparation of construction support for a capacity improvement project near Waycross, Georgia. This project involved the design of the extension of an existing siding by over two miles to create approximately four miles of double track with universal crossovers in the middle. The project also included the upgrade of the existing siding from F.R.A. Class II to Class IV.

Railroad Project Designer for CSX Transportation, Haywood Siding Extension, Haywood, GA Ms. Rhyder performed civil engineering design work, estimating, preparation and construction support for a capacity improvement project near Haywood, GA just north of Waycross. This project was originally conceived as a new 22,000 foot section of double track. After initial field investigation by the team, the project was modified to extend an existing passing siding to create a 7-1/2 mile long section of double track with universal crossovers in the middle. The project also included the upgrade of the existing siding from F.R.A. Class II to Class IV.

Railroad Project Designer for CSX Transportation, Lilly Siding Extension Lilly, GA. Pamela performed civil engineering design work, estimating, preparation and construction support for a capacity improvement project near Lilly, Georgia. This project involved extending an existing passing both north and south to create approximately five miles of double track main line with universal crossovers in the middle. The project also included the upgrade of the existing siding from F.R.A. Class II to Class IV. This project included modifications to a failed culvert location including drainage survey and headwall designs.

Railroad Project Designer for CSX Transportation, Bartlett Siding Extension, Bartlett, GA Pam performed civil engineering design work, estimating, preparation on construction support for a capacity improvement project near Bartlett, Georgia. This project involved the design of a new 10,000 foot in the clear passing siding.

Project Designer for Texas Utilities, Dallas, TX, Valley Power Plant Rail Design Railroad Pam progressed concept drawings into 90% construction documents for a double rail loop main to provide coal for a future power plant modification for TXU Power operations in Dallas Texas. The documents included Plans, Profiles, Cross sections, Signing and quantities.

Railroad Project Designer for CSX Transportation, Boyles Yard Upgrade and Re-Design Pamela produced hump yard design project which included processing survey data, designing new profiles and plans production that revitalized the existing yard to become more productive and efficient in its operation capacity.

Railroad Project Designer for CSX Transportation, Tilford Yard Upgrade/Re-Design Pam participated in the hump yard design project which included processing survey data, designing new profiles and plans production that revitalized the existing yard to become more productive and efficient in its operation capacity.

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Rail Designer for ASPA Garrows Bend Rail Yard Terminal Design Mobile, AL The Alabama State Port Authority. Produced design of a port rail yard infrastructure at this location to be leased to a client (yet to be determined). Pam's design included rail facilities, storage tracks, container parking/storage layout, and maintenance roads in and around yard tracks.

Rail Designer for CSX Transportation, CSX GEC-Kilgore Bridge Road Crossing, Aiken, SC The Jacksonville Office utilized the Fli-map data to prepare a conceptual horizontal and vertical alignment for the CSXT Main and Siding.

Rail Designer Norfolk Southern Corp., Selma Passing Siding Pam prepared plans, profiles, and cross sections for extending Norfolk Southern passing track. Main Track changes and additional storage tracks at Selma, North Carolina

On-Call Consultant for Real Property, CSX Corporation, Jacksonville, FL Pam provided on-call technical services to Real Property in the areas of Flip7, MicroStation, Geopak, GIS, and LIDAR, including processing data utilizing Flip7 software to be used in the implementation of PTC (Positive Train Control, the federally mandated Rail Safety Improvement Act).

Design Technician for CSX SDT Line Capacity, CSX Corporation, Jacksonville, FL Pam was a design technician for CSX, helping to process Lidar data for GIS and Geopak Survey design for Rail Capacity Improvement Projects for multiple Class I Railroads.

Design Technician for Central Florida Commuter Rail, Archer Western/ Parsons, Orlando, FL Pam operated as a design technician assisting with structures and rail platforms.

Roadway Design Engineer for Commonwealth Interchange in Jacksonville, FL – FDOT D2 – Pam assisted with production of exhibits displaying multiple design alternatives.