



R. H. BOHANNAN & ASSOCIATES, LLC

3612 E. Laurel Lane
Phoenix, AZ 85028

**Transit and Rail Consulting
Transportation Planning**

602. 996.7790 Home

602.618.5884 Cell

rob@rhbohannan.com

www.rhbohannan.com

ROBERT H. BOHANNAN, AICP

Senior Transportation Planner with 22 years of experience in transportation management, operations, and planning. Recently served as a transit planner, consultant to the San Carlos Apache Tribe, and subconsultant to Jacobs Engineering Group on two Planning Assistance for Rural Areas (PARA) studies for the Arizona Department of Transportation. Completed ten years of transportation planning experience with Lima & Associates. For three years, was the general manager of a short line railroad that provided both freight and passenger excursion services. For another five years, was the president and general manager of a shuttle service that connected Flagstaff with Phoenix Sky Harbor Airport and also connected the Phoenix area with Amtrak in Flagstaff and served as a through bus connection with interline ticketing with Amtrak.

EDUCATION:

B.A., Political Science, Arizona State University, 1974

REGISTRATION:

AICP in Arizona

CURRENT POSITION:

Managing Member (Principal) of R. H. Bohannan & Associates, LLC, a transportation planning and consulting firm. Recent projects:

- Project Planner, Urban Logo Business Census Consulting Project, as consultant to Grand Canyon State Logo Signs, a division of the Arizona Department of Transportation. Conducted a census of candidate businesses near traffic interchange and highway intersection locations where future logo signs may be placed.
- Freight and Rail Planner, ADOT MPO/COG Process Manual Project, as subconsultant to Wilson and Company. As a subconsultant to Wilson and Company, drafted a Freight and Rail chapter of an MPO/COG Process Manual being developed for the Arizona Department of Transportation by Wilson. Summarized the activities of truck, rail, and air freight service providers operating to, from, and within Arizona. Rob also summarized previous studies and plans that address freight service, and explained the importance of including the provision for freight infrastructure in future transportation planning to be conducted by Arizona's metropolitan planning organizations and councils of government.
- Project Planner, Other States' Urban Program Consulting Project, as consultant to Grand Canyon State Logo Signs, a division of the Arizona Department of Transportation. Reviewed and documented the practices of other states with urban logo sign programs. Conducted site visits of four states that have urban logo sign programs—or that provide for the placement of logo signs on highways in urban areas: Iowa, Minnesota, Texas, and Wisconsin. In each state met with the state DOT personnel responsible for the logo sign program to learn pricing and marketing strategies, program implementation approaches, and any "lessons learned" with respect to the concept, implementation, and administration of the program. Also met with representative samples of program participants to obtain feedback
- Lead transit planner for the Apache Junction Comprehensive Transportation Study as subconsultant to Jacobs Engineering Group. Assisted with an analysis and

documentation of current conditions and a forecast of future conditions as these related to transit provision. Developed transit ridership estimates using two methodologies for each of three area population thresholds: 60,000, 75,000, and 130,000. Draft local transit system scenarios were developed for each population threshold.

- Deputy project manager and lead transit planner for the San Carlos Apache Tribe Transit Study, Arizona as subconsultant to Jacobs Engineering Group. Assisted with an analysis and documentation of current conditions, a forecast of future conditions related to the augmentation of the Tribe's transit system, and draft recommendations. In Phase II of the study, developed an Operations Implementation Plan including a Maintenance Plan, a Safety Plan, and a Marketing Plan for the system.
- Lead transit planner for the Kayenta Multimodal Transportation Study as subconsultant to EPS Group, Inc. Tasked with preparing the transit element of the study. Developed future estimates of transit demand within Kayenta and drafted a concept for a loop circulator transit route

SUMMARY OF TRANSIT AND RAIL PLANNING AND MANAGEMENT SKILLS

- Familiar with the history and current status of intercity and local bus services in Arizona including
 - Intercity Bus operations in Arizona
 - Conceptualization, marketing, and management of bus tours and charters
 - Local and regional existing, planned, and programmed transit services
 - Transit funding practices and Federal Transit Administration grant application process
- Conceived, implemented, and managed a Phoenix-Flagstaff shuttle service including
 - Development of routes and services including planning of schedules and connections
 - Selection of equipment and development of safety and maintenance procedures
 - Hiring and training of personnel
 - Marketing and creation of collateral materials
 - Establishment of interline ticketing agreements with Amtrak and Trailways
- Possesses in-depth knowledge of the history and current status of Arizona railroads and rail issues including
 - Dates of rail line construction and original purpose
 - The impact of mergers and acquisitions on Arizona rail lines
 - Branch line extensions and abandonments; Main line realignments and abandonments
 - Implementation, expansion, and cessation of freight and passenger services provided
 - Interaction among the various line segments and rail line owners
 - Influence of socioeconomic and other external factors on the life cycles of different rail lines.
 - ✓ Role of railroads in the broader economic and transportation picture—nature and effect of competitive forces
 - ✓ History and operation of Amtrak
- Participated in the development of acquisition and operating plans for rail lines and rail excursion operations

- Managed the operation of a short line rail freight service and maintained successful relationships with rail freight customers, on-line communities, regulatory agencies, and other stakeholders
- Participated in the conceptualization, development, and implementation of excursion and other special rail passenger operations
- Managed the operation of excursion and other special rail passenger operations
- Conducted field views, described, and documented existing transit and rail services and facilities
- Developed concepts for future bus transit and passenger rail services as part of the circulation elements of local jurisdiction general plans
- Developed concepts for bus rapid transit, light rail, commuter rail, and other high-capacity transit services for future public transportation provided along corridors and within regions
- Participated in the conduct of a performance review of a commuter rail proposal
- Understands rail-highway crossing issues, including planning, applicable government regulations, upgrading, inspection, and maintenance
- Developed a working relationship with Amtrak as the manager of an Amtrak connecting carrier
- Developed a working relationship with a Class I freight railroad as the manager of a connecting rail freight short line railroad
- Understands underlying issues related to the operation of rail passenger service on freight railroads
- Understands rail management operating philosophies regarding rail passenger services and the evolution of these over time

RAILROAD PLANNING AND MANAGEMENT EXPERIENCE AT LIMA & ASSOCIATES

- **San Luis & Rio Grande Ridership Demand Study, Colorado.** Project Manager and planner for this development of ridership demand estimates for the 2010, 2015, 2020, and 2030 horizon years for a proposed rural passenger rail service in South-Central Colorado. Obtained traffic data from the Colorado Department of Transportation for the highways paralleling the rail route and socioeconomic data from the state demographer. Developed ridership estimates based on a reasonable modal split between rail and highway for different populations. Employed the Transit Cooperative Research Project's rural transit demand estimating procedure. Oversaw the creation of GIS map exhibits illustrating the findings and recommendations of the study.
- **Arizona Eastern Ridership Demand Study, Arizona.** Project Manager and planner for this development of ridership demand estimates for the 2010, 2015, 2020, and 2030 horizon years for a proposed rural passenger rail service between Globe and Safford, Arizona. Obtained traffic data from the Arizona Department of Transportation for the highways paralleling the rail route and socioeconomic data from the Arizona Department of Commerce. Developed

ridership estimates based on a reasonable modal split between rail and highway for different populations. Employed the Transit Cooperative Research Project's rural transit demand estimating procedure. Oversaw the creation of GIS map exhibits illustrating the findings and recommendations of the study.

- **Yuma West Commuter Rail Development Plan, Arizona.** Leading Lima & Associates tasks for this study of the feasibility of implementing commuter rail service along a rail corridor connecting downtown Tempe and Phoenix with southwest suburbs. Participated in an inventory of the existing UP rail line, the development of a conceptual commuter rail operating plan, and identification of infrastructure improvements necessary for the implementation of commuter rail service. Overseeing the development of GIS map exhibits illustrating the findings and recommendations of the plan.
- **High Speed Passenger Rail Strategic Plan 2007, Arizona.** Led Lima & Associates tasks in the validation and reassessment of the Phoenix-Tucson High Speed Rail Passenger Study that had been conducted for the Arizona Department of Transportation in 1998. The elements of the 1998 Study that were reevaluated included the options for routing, schedules, and station locations. The methodology used to develop ridership estimates in 1998 was assessed, together with intervening changes in Phoenix-Tucson corridor traffic.
- **CATRail Transit Feasibility Study, Las Vegas, Nevada.** As a member of the performance review project team, participated in a review of the ridership estimation methodology for a proposed high capacity transit corridor in the Las Vegas area. Compared the size of station buffer zones or catchment areas in different parts of the corridor with those used in analogous studies in peer areas. Assessed the choice of existing CAT bus routes used to anticipate the modal split in the proposed corridor.

OTHER RAILROAD PLANNING AND MANAGEMENT EXPERIENCE

- **Kyle Railways, Inc., San Francisco, California, and Scottsdale, Arizona** Prior to, during, and subsequent to employment as general manager of the San Pedro & Southwestern Railway in Benson, acted as a consultant/planner for Kyle Railways, Inc., the parent company of the San Pedro & Southwestern Railway. Co-authored and/or edited several feasibility studies and performed other tasks for Kyle including
 - ✓ *Lease or Acquisition of Magma Arizona Railroad Company, Superior, Arizona.* Developed and prepared an acquisition and operating pro-forma for an excursion rail operation over this dormant short line in Central Arizona. Conducted a field view of potential terminal areas in Superior and Florence Junction. Participated in a field view of the rail line with Kyle and Magma personnel. Participated in the development of scenarios for operations, right-of-way-maintenance, mechanical maintenance, and administration. Prepared maps and graphics, and prepared and edited the Final Report.
 - ✓ *Acquisition of Certain BNSF Branch Lines in Nebraska.* Participated in the development of scenarios for operations, right-of-way-maintenance, mechanical maintenance, and administration. Edited the Final Report.
 - ✓ *Lease, acquisition, or management of the Algoma Central Railway, Ontario, Canada.* Participated in the development of operations, right-of-way-maintenance, mechanical maintenance, and administrative scenarios. Prepared and edited the Final Report.

- ✓ *Lease and/or Acquisition of Rail Branches in the San Joaquin Valley, California.* Participated in the development of operations, right-of-way-maintenance, mechanical maintenance, and administrative scenarios. Prepared maps and graphics, and edited the Final Report. Kyle successfully completed the proposed lease and acquisition and operated the lines as the San Joaquin Valley Railway until their sale as part of a corporate merger process.
 - ✓ *Kyle Railways marketing maps and logo creation, Scottsdale, Arizona.* Created a new corporate logo for Kyle Railways, Inc. Edited corporate newsletter. Also created logos and marketing collateral maps for subsidiary companies including the Kyle Railroad in Kansas, the Alabama and Gulf Coast Railway, and the Eastern Alabama Railway.
- **San Pedro & Southwestern Railroad, Benson, Arizona.** Managed start-up short-line railroad operation. Developed and prepared acquisition and operating pro-formas. Designed a computerized rail freight car accounting database, including routines for the monthly calculation of switch settlements, car hire, reclaim, demurrage, and storage. Developed record-keeping system praised by local Federal Railroad Administration (FRA) officials. Developed rapport with connecting Class I railroad, rail freight customers, and commitment to service resulting in sustained growth in freight traffic over three year period. Helped conceive and implement a successful excursion train operation and created promotional materials and marketing strategies for the train.
 - **Governor's Phoenix-Tucson High Speed Rail Task Force, Arizona.** As an independent subconsultant to Kimley-Horn and Associates, created and edited the Executive Summary of the Final Report and designed the Report cover.

OTHER TRANSIT PLANNING AND MANAGEMENT EXPERIENCE

- **Arizona Central Lines, Phoenix.** From January 1983 through January 1988, was President and General Manager of this mini-bus shuttle service, which connected Flagstaff and Prescott with Phoenix Sky Harbor Airport until replaced by additional air service between Flagstaff and Phoenix. Although airport connections represented the bulk of the passenger volume, operation was developed at the suggestion of Amtrak and also served as a through bus connection between Amtrak's Southwest Chief at Flagstaff and stops in the Phoenix area. Developed concept for service, selected stops and equipment, planned schedules, hired and trained personnel, and established maintenance and safety procedures. Established interline ticketing agreements with Amtrak and Trailways, as well as agreement with City of Phoenix for operation on Airport property.

AFFILIATIONS:

- Director and President in 1998, 2004, 2005, and 2013 Arizona Rail Passenger Association
- Member, Arizona Planning Association
- Member, American Institute of Certified Planners (AICP)
- 1997-98 Member, Governor's Phoenix-Tucson High Speed Rail Task Force

PRESENTATIONS:

“Prioritizing the Location of Bus Bays in Phoenix, Arizona,” American Society of Civil Engineers (ASCE) 2001 Fall Transportation Conference, Las Vegas, Nevada. Received “Best Technical Paper” award.

“Transit Planning for Small Urban Areas in Arizona,” Institute of Transportation Engineers/International Municipal Signal Association 2002 Spring Conference, Phoenix, Arizona.

“Rural Transit Session,” Arizona Planning Association 2003 Fall Conference, Glendale, Arizona.

“History and Current Status of Rail Freight Industry in Arizona,” Arizona Chapter, Conference of Minority Transportation Officials, March 16, 2005.

UNPUBLISHED PAPERS:

“A Review of Phoenix Area Rail Lines,” prepared for A & K Railroad Materials, Inc., March 1999.

“Developing an Outreach Program for Educating the Construction Industry on the Need for Fugitive Dust Control,” co-authored with Peter M. Lima, Ph.D., P.E., and Cathy D. Arthur, prepared for the Arizona Transportation Research Center, April 2004.