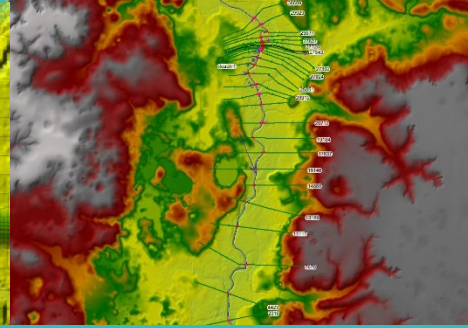
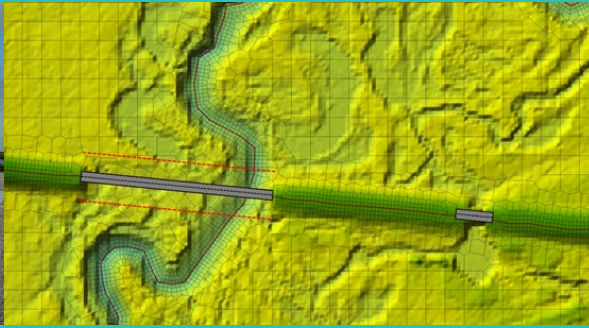
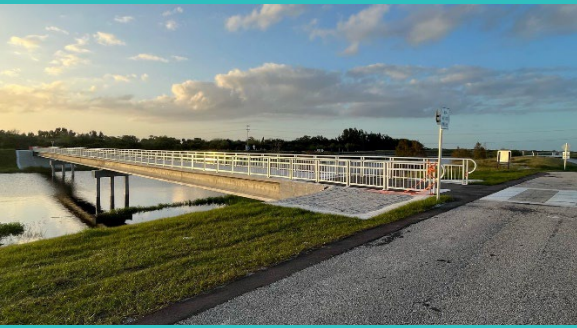




Practice Area

BRIDGE HYDRAULICS

THE KNOWLEDGE YOU NEED, THE INTEGRITY YOU TRUST™



SERVICES

- Hydrologic and Hydraulic Analyses for Bridge Projects
- Design Peak Flow Evaluation 1D or 2D Hydraulic Models Experience
- FDOT Scour Analysis Procedures Utilization
- Wildlife Crossing Expertise
- Environmentally Conscious Designs

IMPLEMENTATION

CR 278 over Chipola River

SR 87A New Connector Bridge over Blackwater River and SR 87A New Connector from SR 10 (US 90) to CR 191 (Munson Highway)

SR 50 Bridge Replacement over Econlockhatchee River

And more!



Lori Stanfill, P.E. is a seasoned Chief Engineer specializing in water resources and stormwater management, particularly within hydrology and hydraulics. She brings a wide range of engineering experience spanning over 22 years. Her focused area of expertise is Bridge Hydraulics, having prepared numerous Bridge Hydraulics Reports across Florida as Engineer of Record on many reports, including drainage design and permitting. Lori is also well versed in preparing FEMA No-Rise Certifications and has expertise in bridge scour protection and remediation for susceptible bridge locations. Lstanfill@balmoralgroup.us



Luis Cruz-Miranda, MSCE, P.E., is a highly resourceful and dedicated Chief Engineer specializing in water resources and stormwater systems. Luis has a Master's Degree in hydrology/hydraulics, specializing in flash flooding. He has over 28 years of experience in Bridge Hydraulics, and his expertise also includes floodplain and floodway evaluations (FEMA No-Rise Certifications), and scour analysis. Luis works with various software applications, including HEC-RAS (1D and 2D), HEC-HMS, HEC-SSP, SWMM, CatchmentSIM, and ArcMap.



Andrea Valencia, Ph.D., E.I. is a highly dedicated engineer intern supporting Lori with bridge hydraulic analysis using HEC-RAS software. She also assists with bridge drainage layout and analysis utilizing ORD software. GIS capabilities in ArcMap include drainage infrastructure digitization and watershed hydronetwork development.

TBG DIFFERENCE

- TBG has prepared over 55 Bridge Hydraulic Reports and are recognized experts within Florida