

FY 19/20 Request for Research Funding
October 28, 2019

D4-19-01	BDV31 977-126	Development of Florida Traffic Characteristics for Service Volume Calculations Based on latest HCM	Neil Lyn	Approved Pending execution
D5-20-01		Improving Multimodal Traffic Safety for Six-Lane Arterial Highways	Brenda Young	Approved Scope under review
D6-20-02		Assessing the Health Impacts of Complete Street Projects in Florida: Development and Application of an Assessment Tool	Neil Lynn	Approved
D7-20-01	BDV31 977-123	Evaluating the connection between transit and TNCs (Transportation Network Companies) in Pinellas County for statewide application	Ming Gao	Approved Pending execution
CST-20-01		Temporary Low-Profile Barrier (LPB) Enhancements	Daniel Strickland	Approved On hold until crash testing project is done
FTO-20-01		Evaluation and Enhancement of the Florida Statewide Model	Vladimir Majano	Approved Pending official submittal
FTO-20-03		Microsimulation: Department Assessment and Guidance	Thomas Hill	Approved
FTO-20-05		Investigation of E-Commerce Enabled Freight Demand and Activities in Residential Areas	Frank Collins	Approved
GEO-20-01	BDV31 977-124	Field Load Testing of Florida Limestone, Phase II	Rodrigo Herrera/ David Horhota	Approved Pending execution
GEO-20-02		Performance Testing of GRS Test Piers Constructed with Florida Aggregates – Axial Load Deformation Relationships	Larry Jones	Approved
GEO-20-03		Field Investigation of Downdrag on Concrete Piles in Sandy Soil	Larry Jones	Approved

GEO-20-04	BDV31 977-122	In-service Assessment of Road Sinkholes with 2D Ambient Noise Tomography	David Horhota	Executed
RD-20-02	BDV24 977-34	Identifying Mental Frameworks Underlying Driver Behavior in Urban Contexts	DeWayne Carver	Approved Pending execution
SF-20-02		Understanding Florida Motorcycle Crashes and Injury Outcomes Using the Motorcycle Crash Causation Study (MCCS) Dataset	D7 Edith Peters / Joe Santos	Approved
SF-20-03		Characterizing Curve Crashes in Florida	Joe Santos	Approved
SMO-19-03		Impact of Incentive/Disincentive Specifications on Long-Term Asphalt Pavement Performance	Bouzid Choubane	Approved In process of advertising
SMO-19-09	BDV31 977-121	Use of Infrared Thermography for the Inspection of Welds in the Shop and Field - Phase II	Tim McCullough	Executed
SMO-20-01		Identification of the mechanisms that produce hydrogen embrittlement on post-tensioning members and the effects of galvanic coupling on bridge tendons	Matthew Duncan	Approved
SMO-20-04		Performance Evaluation of SP-9.5 and SP-12.5 Superpave Mixtures	Wayne Rilko	Approved Need evaluation criteria
SMO-20-05		High Friction Surface Treatment (HFST) Synthesis for Florida Pavements	Charles Holzschuher	Approved Scope under review
SMO-20-06		Effects of Composition and Temperature Control Measures on Mass Concrete Durability	Pat Upshaw	Approved Scope under review
SMO-20-07		A Review of Florida's FC-5 Raveling Condition Assessment and Measurement Methods	James Greene	Approved Scope under review
SMO-20-08		Investigation into the contributing factors to the corrosion of steel reinforced concrete structures at elevations greater than 12 feet above the mean high water line	Ron Simmons	Approved

SMO-20-10		Develop the procedures for welding and fabrication of weathering stainless-steel bridge to reflect the scope of the AASHTO/AWS D1.5. Bridge Welding Code.	Tim McCullough	Approved under review	Scope
SMO-20-11		Assessment of Structural Steel Coating Applications	Chase Knight	Approved under review	Scope
STR-20-01		Inspection of Flexible Filled Tendons	Will Potter / Ivan Lasa	Approved under review	Scope
STR-20-02		Strength and Constructability of a Double Composite Steel Box Girder	Will Potter/Sam Fallaha	Approved under review	Scope
STR-20-03		Evaluate Effects from Shored Construction on Steel Composite Bridges	Zachary Behring	Approved under review	Scope
STR-20-04		Update Vessel Past Point Data	Andre Pavlov / Sam Fallaha	Approved	
STR-20-05		Temperature Effects in Match Cast Segmental Bridge Construction	Will Potter /Vicky Young	Approved	
TEO-19-03		Determining Sample Measures of Distracted Driving, Distracted Pedestrian Activities and Impacts of Such Behavior on Traffic Operations at Signalized Intersections	Jim Stroz / Alan El-Urfali	Approved Scope under review	
TEO-20-01	BDV30 977-29	Feasibility Analysis of Real-time Intersection Data Collection and Processing Using Drones	Alan El-Urfali	Executed	
TEO-20-02		Identifying and Prioritizing Target Regions to Conduct Outreach Activities to Improve Safety and Mobility of Aging Population	Gail Holley	Approved	
TEO-20-04		Assessment of the Infrastructure Readiness for Connected Vehicle-to Infrastructure Applications on Arterial Streets	Derek Vollmer	Approved	
TEO-20-05		Safety Performance of Managed Lane Separation Types	Jennifer Fortunas	Approved under review	Scope

TEO-20-06		Identify Sources and Risks on Cyber Security for Connected Vehicle Infrastructure	Daniel Buidens / Raj Ponnaluri	Approved Scope under review
PTO-19-01		Improving Data Accessibility for Transit Service Planning	Gabe Matthews/Chris Wigglesworth	Approved Scope under further review by PM