

Pre-scoping Questions
For Design-Build Projects, February 28, 2023

| Document Reference | Pre-scoping Question | FDOT Contact |
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| <ul style="list-style-type: none"> • Army Corps permitting Requirements | <p>E.1 Removal Limits to Facilitate Future Channel Maintenance Dredging – ACOE: If project includes removal of existing structure near the navigational channel, is additional removal below the mud line required to facilitate future channel maintenance dredging? This is especially a concern when existing mud-line bascule piers are to be removed due to the costs involved. What are the specific permit requirements to be conveyed in the RFP?</p> | <ul style="list-style-type: none"> • District Environmental Manager • Environmental Permits Coordinator |
| <ul style="list-style-type: none"> • PD&E Manual Part 1, Chapter 12 (old Chapter 10) • FDOT Design Manual 251 • Structures Detailing Manual 22.2 | <p>E.2 Storm Water Pollution Prevention Plan: Are there environmental restrictions concerning whether bridge drainage can discharge directly into the waterway? What are the specific permit requirements related to bridge drainage to be conveyed in the RFP?</p> | <ul style="list-style-type: none"> • District Environmental Manager • Environmental Permits Coordinator |
| <ul style="list-style-type: none"> • PD&E Manual Part 1, Chapter 12 (old Chapter 10) • PD&E Manual Part 2, Chapter 11 • PD&E Manual Part 2, Chapter 18, Environmental Document, Wetland Evaluation Report, Biological Assessment, Essential Fish Habitat Assessment | <p>E.3 Seagrass Avoidance and Minimization: Are there sea grasses within or in the vicinity of the project limits (for water projects)? Are there turbidity/jetting restrictions? Are temporary work platforms required to facilitate crane access in shallow water? Have the permits been acquired? Will they be acquired prior to or during the Design build phase? Is the project federally funded? What are the specific permit requirements to be conveyed in the RFP?</p> | <ul style="list-style-type: none"> • District Environmental Manager • Environmental Administrator • Environmental Permits Coordinator |
| <ul style="list-style-type: none"> • PD&E Manual Part 1, Chapter 12 (old Chapter 10) • PD&E Manual Part 2, Chapter 27 | <p>E.4 Wildlife and Habitat Impacts: Are there endangered species potentially impacted by the project? How will impacts be minimized? What are the specific permit requirements to be conveyed in RFP? Review environmental Commitments. Are there any blasting restrictions?</p> | <ul style="list-style-type: none"> • District Environmental Manager • Environmental Administrator • Environmental Permits Coordinator |

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| <ul style="list-style-type: none"> • PD&E Manual Part 2, Section 17-9 • PD&E Manual Part 2, Chapter 30 • Soils and Foundations Handbook Section 9.2.4 | <p>E.5 Construction Vibration: Are there adjacent properties that may be subject to damage during construction due to excessive vibrations? If so, provide additional vibration requirements in the RFP beyond what is already covered under Specification 455-1.1 for foundation construction, as necessary. Examples may include laser surgery related businesses, railroad facilities, and historic buildings located close to potential super-pave, pile driving, drilled shaft casing installation, blasting or sheet piling installations.</p> | <ul style="list-style-type: none"> • District Geotechnical Engineer |
| <ul style="list-style-type: none"> • PD&E Manual Part 2, Section 17-9 • PD&E Manual Part 2, Chapter 30 • Soils and Foundations Handbook Section 9.2.4 | <p>E.6 Construction Vibration: Are there adjacent properties that may be subject to damage during construction due to excessive vibrations? If so, provide additional vibration requirements in the RFP beyond what is already covered under Specification 455-1.1 for foundation construction as necessary. Examples may include laser surgery related businesses, railroad facilities, and historic buildings located close to potential super-pave, pile driving, drilled shaft casing installation, blasting or sheet piling installations.</p> | <ul style="list-style-type: none"> • District Geotechnical Engineer |

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| <ul style="list-style-type: none"> • PD&E Manual Part 2, Chapter 18 • PD&E Manual Part 1, Chapter 12 (old Chapter 10) • PD&E Manual Part 2, Chapter 27 • Environmental Document, Wetland Evaluation Report, Biological Assessment, Essential Fish Habitat Assessment | <p>E.7 Wetland Avoidance and Minimization: Are there jurisdictional wetlands within the project limits? Are there areas within the R/W limits that the Contractor cannot disturb? How will impacts be minimized? Have the permits been acquired? Will they be acquired prior to or during the Design build phase? Is the project federally funded? What are the specific permit requirements to be conveyed in RFP?</p> | <ul style="list-style-type: none"> • District Environmental Manager • Environmental Administrator • Environmental Permits Coordinator |
| <ul style="list-style-type: none"> • PD&E Manual Part 2, Chapter 12 • FDOT Cultural Resources Handbook • Coordination Procedures | <p>E.8 Archaeological and Historic Sites: Are there archaeological or historic properties impacted by the project? Review environmental commitments –coordinate with SHPO, Coordinate with Native American Tribes (under no circumstances can contractors directly coordinate or speak to Native American Tribes – FDOT has very specific Coordination Procedures). Include specific requirements in the RFP?</p> | <ul style="list-style-type: none"> • District Environmental Manager • Environmental Permits Coordinator |

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| <ul style="list-style-type: none"> • PD&E Manual Part 2, Chapter 22 • Environmental Document, Contamination Screening Evaluation Report • Structures Design Guidelines • 1.5 Existing Hazardous Material | <p>E.9 Contamination Impacts: Are there contaminated sites or contaminated materials within the project limits? Did any borings retrieve samples with suspect odors? Will location and type of contamination dictate roadway alignments, retention pond placement, or structure versus retaining walls? Address items such as special handling and disposal requirements of drilled shaft or other excavated materials. Clearly indicate the presence of lead-based paint, asbestos, creosote, or other hazardous materials and include requirements in the RFP. (SDG 1.5.A & SDG 1.5.C)</p> | <ul style="list-style-type: none"> • District Environmental Manager • District Contamination Impact Coordinators • District Geotechnical Engineer |
| <ul style="list-style-type: none"> • PD&E Manual Part 2, Chapter 17 • FDM 264 | <p>E.10 Does the project require noise barriers? If so, attach the Noise Study Report (NSR) to the RFP and include requirements.</p> <p>E.11 Are there specific aesthetic requirements for noise barriers? Depending on flexibility of the project based on public commitments, provide aesthetic requirements including color, textures, graphics, absorptive vs. reflective surface, flush vs. recessed panels, etc. in the RFP. (SDM 4.4.A and Standard Plans Instructions Index 534-200)</p> | <ul style="list-style-type: none"> • District Environmental Manager • District Noise Specialist • District Structures Engineer |
| <ul style="list-style-type: none"> • PD&E Manual Part 2, Chapter 17 • FDM 264 | <p>E.12 Does the project require Perimeter Walls? If so and the required wall deviates from Standard Plans Index 534- 250, provide wall details/requirements in the RFP. (FDM 264.3)</p> <p>E.13 Are there specific aesthetic requirements for perimeter walls? Depending on flexibility of the project based on public commitments, provide aesthetic requirements including wall type (precast or masonry), color, textures, anti-graffiti coating, etc. in the RFP. (Standard Plans Instructions Index 534-250)</p> | <ul style="list-style-type: none"> • District Environmental Manager • District Structures Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines • 1.1 General | <p>S.1 Horizontal Clearances for Bridges over Navigable Waterways. Provide horizontal clearance as required by the United States Coast Guard (USCG), the Army Corps of Engineers and the Florida Inland Navigation District. (SDG 1.1.3.B.1)</p> | <ul style="list-style-type: none"> • District Environmental Manager • Environmental Permits Coordinator • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 1.1 General | <p>S.2 Does the structure target service life exceed the LRFD 75-year design life? If so, then coordinate with the SMO to develop the required corrosion protection and materials specifications and with the SDO for other related design and detailing requirements.</p> | <ul style="list-style-type: none"> • State Structural Materials Engineer • State Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 1.3 Environmental Classification | <p>S.3 Environmental Classifications for New Bridges and Bridge Widening. Provide environmental classifications for all new bridges and bridge widening. (SDG 1.3.1.A & SDG 1.3.3.A)</p> | <ul style="list-style-type: none"> • District Materials Engineer • District Geotechnical Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 1.4 Concrete and Environment | <p>S.4 Reinforcing Elements for Concrete Design. For structural components that require fiber reinforced polymer or stainless-steel reinforcing steel, provide material requirements along with listing of elements and limits. (SDG 1.4.1.B)</p> <p>Reviewer's Note: Higher grades of black rebar greater than grade 60 has not been allowed except for drilled shaft applications. Black reinforcing cannot be used in the vicinity of tolling gantries.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Materials Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 1.4 Concrete and Environment • 4.3 Pretensioned Beams | <p>S.5 Superstructure components located within the splash zone and bridges near boat ramps or beach access. Where bridge superstructure components are located within the splash zone and when the environmental classification is Extremely Aggressive due to the presence of chloride in the water of a marine environment, contact the State Materials Office for guidance on concrete cover, design mix requirements and alternative reinforcing materials (SDG 1.4.3 and 4.3.1). If bridges are near boat ramps or beach access where the deck will be exposed to chloride water spilling from trailered boats, contact the State Materials Office for guidance on</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Materials Engineer • District Structures Maintenance Engineer |

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| | concrete cover, design mix requirements and alternative reinforcing materials (SDG 1.4.3). | |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 1.4 Concrete and Environment | <p>S.6 Provide requirements for concrete surface finish for all concrete elements. Include limits and other requirements for Class 5 coatings, tints, stains, and anti-graffiti coatings. (SDG 1.4.5)</p> | <ul style="list-style-type: none"> • District Design Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines • 1.10 Limitations on Bridge Skew Angle | <p>S.7 Are there any locations within the project limits where bridge supports with skews greater than 60° are required due to geometric constraints such as when supports must be placed within narrow skewed medians of underlying roadways? If so, obtain approval from the Structures Design Office and include requirements in the RFP. (SDG 1.10)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 2.5 Wave Loads | <p>S.8 Bridge Wave Vulnerability – Minimum Wave Crest Height and Wave Loads. For bridges vulnerable to coastal storms, provide minimum bridge height requirements based on wave crest clearance requirement of the Drainage Manual Section 4.9.5. When certain limits of the bridge cannot meet wave crest clearances, specify limits where bridge height may be less than wave crest clearance elevation, specify bridge level of importance, design strategy, and level of analysis. (SDG 2.5 & Drainage Manual Section 4.9.5) Also see Pre-scoping Question D.26.</p> | <ul style="list-style-type: none"> • State Structures Design Engineer • District Structures Design Engineer • District Hydraulics Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 2.6 Vehicular Collision Force | <p>S.9 Are there any non-interstate new grade separated bridges, existing grade separated bridges to remain, or grade separated bridges to be widened that are deemed to be critical for pier protection? If so, include requirements in the RFP.</p> <p>S.10 Do any of the new bridges, existing bridge to remain, or bridges to be widened span railroad tracks? If so, include any crash wall requirements in the RFP. For bridge widenings, include crash wall protection requirements for both existing and new piers.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 2.10 Redundancy and Operational Importance • FDM 121.9.6 | <p>S.11 Follow the SDG unless the following conditions exist: 1) Are there bridges considered critical to the survival of major communities, or 2) to the security and defense of the US? If so, insert a requirement for the operation importance factor to be equal to 1.05 in RFP. (SDG 2.10.B & FDM 121.9.6)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines • 2.11 Vessel Collision | <p>S.12 Does the new bridge or major widening cross a navigational waterway? Set input parameters for site: i.e. importance factor, water velocities, etc. and allow each D/B Team to modify pier spacing to determine pier strength requirements within these fixed parameters. See SDG 2.11. A "Major Widening" is defined as a bridge widening that at least doubles the total number of traffic lanes or the bridge deck area.</p> <p>S.13 Is there a minor bridge widening spanning a navigable waterway that requires Vessel Collision design? If so, provide requirements in the RFP. (SDG 2.11.5) A "Minor Widening" is defined as a bridge widening that that does not double the total number of traffic lanes or the bridge deck area.</p> <p>S.14 Does bridge cross a navigational waterway? If so, specify the minimum main span length in the RFP based on a vessel impact assessment, requirements of permitting agencies or aesthetic requirement whichever controls? (SDG 2.11.7)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 3.3 Foundation Scour Design | <p>S.15 Are there temporary structures located within the waterway or potential temporary structures that may be located within the waterway that must consider scour effects in the design? If so, provide requirements to design temporary structures for XX year storm event in the RFP. (SDG 3.3.C)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 3.5 Driven Piles | <p>S.16 Are there new bridges or bridges to be widened within the project limits that have substructure components located in a body of water that is classified as extremely aggressive, but not due to chlorides? If so, determine if piles smaller than 24 inches should be allowed. If so, provide specific requirements in the RFP. (SDG 3.5.1.F)</p> | <ul style="list-style-type: none"> • District Materials Engineer • District Structures Design Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines • 3.11 Pier, Column, and Footing Design | <p>S.17 If bottom of footing elevations is set a minimum of 1 foot below MLW or NLW, will tides consistently expose piles for extended periods? If so, specify a lower maximum footing elevation in the RFP to eliminate exposure of piles. (SDG 3.11.2.C.1)</p> <p>S.18 If the D/B Team chooses to use submerged footings should a minimum clearance between MLW or NLW and the top of the footing be specified based on the type of boat traffic using the waterway? (SDG 3.11.2.C.3)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 3.12 Retaining Wall Types | <p>S.19 Is there a reason partial height walls such as toe walls or perched walls should not be allowed in a particular portion of the project due to difficulty in mowing, history of poor grass growth and/or incidence of slope erosion? If so, provide limitations in the RFP regarding partial height walls including limits of restrictions.(See Figure 3.12-1)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Maintenance Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 3.8 GRS Abutments • 3.12 GRS Walls | <p>S.20 Are there reasons to prohibit GRS walls or abutments in any portions of the project? If so, provide detailed limitations in the RFP. (SDG 3.8.2, 3.12.7 & 3.13.4)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Geotechnical Engineer • State Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 3.14 Fender Systems | <p>S.21 Does bridge cross a navigational waterway? Is a fender system required? If so, obtain U.S. Coast Guard (USCG) concurrence and include requirements in the RFP. (SDG 3.14.1.B)</p> <p>S.22 Determine whether Standard Plans Index 471-030 is allowed based on vessel traffic of the site. If Standard Plans Index 471-030 is not allowed, state restrictions in the RFP. (SDG 3.14.2.D)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • EMO District Permit Coordinator |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 3.14 Fender Systems | <p>S.23 Include requirements in the RFP for Navigation Lighting and Clearance Gauge Details. (SDG 3.14.2.F.1)</p> <p>S.24 Include requirements in RFP for Access Ladders, Platforms, and Catwalks if a fender system is required. (SDG 3.14.2.G)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Structures Maintenance Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines • 4.2 Deck Slabs | <p>S.25 Does the project involve a major or minor widening? Determine whether the widened deck surface should meet profilograph requirements? If so, require that a minimum deck thickness of 8½-inches and specify that the design of the widened deck be in accordance with 4.2.2.A. (SDG 4.2.2.C)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 5 Superstructure - Steel | <p>S.26 Are there steel structures located in very harsh environments that may require a special coating system to enhance durability? If so, include requirements for potential steel superstructures in the RFP. (SDG 5.1.1.B & SDG 5.12.1)</p> <p>S.27 Are there steel structures located in a harsh environment that may benefit from box girders over I-girders to enhance durability? Include restrictions for steel superstructures in the RFP. (SDG 5.1.1.C).</p> <p>S.28 Is corrosion of structural bolts likely to be a prominent maintenance issue to consider? Check with the District Maintenance Engineer to see if this is a problem. If so, provide a requirement for all structural bolts to be mechanically galvanized in accordance with the specifications. (SDG 5.12.2.A)</p> <p>S.29 Is the use of weathering steel prohibited by site conditions or aesthetic considerations? If so, include requirements for coating system in RFP. (SDG 1.3.2.E, SDG 5.3.1.A, & SDG 5.12.A)</p> <p>S.30 Is welding required during rehabilitation or widening of an existing structure? If the type of existing base metal is not known, contact the State materials Office for recommendations on how the welding should be specified. (SDG 5.11.2.C)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Structures Maintenance Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines • 6.4 Expansion Joints | <p>S.31 Does the project involve bridge widenings? If so, investigate the type and condition of all existing expansion joints and include all scope of work requirements related to repairing existing joints in the RFP including specifying joint removal and replacement and deck spall repair limits. (SDG 6.4.3 thru SDG 6.4.5)</p> <p>S.32 Are there bridge widenings with existing proprietary joints that are no longer available? If so, specify replacement of the proprietary joint with a finger joint that accommodates the same calculated movement in the RFP. (SDG 6.4.5.B)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Structures Maintenance Engineer |
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| <ul style="list-style-type: none"> • Structures Design Guidelines • 6.7 Traffic Railing | <p>S.33 Are there existing bridge rails within the project limits that do not meet the criteria for new or existing railings per SDG 6.7? If so, either obtain Design Variation or include RFP requirements to replace or retrofit railings. (SDG 6.7.1.C, SDG 6.7.4.A.2, SDG 6.7.4.A.3, and SDG 6.7.7)</p> <p>S.34 Are there existing bridges within the project limits that are listed or eligible to be listed in the National Register of Historic Places? If so, contact the District Structures Design Engineer to determine traffic railing requirements to be included in the RFP. (SDG 6.7.5)</p> <p>S.35 Is a TL-5 or TL-6 barrier required within the limits of the project? If so, include limits in RFP. (SDG 6.7.6)</p> <p>S.36 Are there existing substandard bridge traffic railings where an upgrade would degrade rather than improve bridge safety? If so, contact the District Structures Design Engineer about a possible Design Variation and include requirements in the RFP. (SDG 6.7.7)</p> <p>S.37 Will Non-FDOT standard, new or modified traffic railings be used? If so, obtain approval from the SDO early in the process of developing the project scope.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
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| <ul style="list-style-type: none"> • Structures Design Guidelines • 7 Widening and Rehabilitation | <p>S.38 Does the project include bridges to be widened? Verify that all bridges to be widened have been load rated in accordance with the Structures Manual prior to finalizing the RFP. Acquire and include all necessary Design Exceptions and Design Variances related to design capacity of existing bridges to remain. Include scope of work in RFP for any strengthening that may be necessary. (SDG 7.1.1 & SDG 7.6.E) For steel bridges, indicate whether field welding will be permitted and include requirements. (SDG 5.11.2.C & SDG 7.6.H.5)</p> <p>S.39 For existing bridges to be widened or bridges within the project limits to remain, are any maintenance repairs or strengthening required based on bridge inspection reports and load ratings? (SDG 7.1.1.A) If so, include requirements in the RFP.</p> | <ul style="list-style-type: none"> • District Structures Maintenance Engineer • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 7 Widening and Rehabilitation | <p>S.40 Are there existing bridges to remain or to be widened within the project limits that have asphalt overlays? Are the existing overlay thicknesses larger than was assumed in the original design? If so, insert a requirement that the asphalt overlay thickness is to be reduced or removed. (SDG 7.3.5.A)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 7.3 Analysis and Design | <p>S.41 Widening an Existing Post-tensioned Bridge. When widening an existing post-tensioned bridge which has bonded (grouted) tendons with a new section of bridge which will have unbonded tendons (tendons with flexible filler), include special requirements in the RFP. (SDG 7.3.7.H)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 7.6 Widening Rules | <p>S.42 Should bridge widenings match existing superstructure types (in-kind or similar)? If so, include requirement in the RFP. (SDG 7.6.A) Should bridge widenings match existing substructure (in-kind or similar)? If so, include requirement in the RFP. Are there existing voided slab bridges to be widened within the project limits? If so, provide special requirements in the RFP. (SDG 7.6.C)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines • 7.6 Widening Rules | <p>S.43 Are there existing bridges to be widened within the project limits that have existing vertical clearances less than 16'-6", or where the widened portion will likely have vertical clearances less than 16'-6"? Are there existing bridges within the project limits that have vertical clearances less than 16'-6" that are to remain? If so, obtain the required exceptions or variations and include vertical clearance requirements. In the case of a bridge widening, include vertical clearance requirements of the widened bridge in the RFP based on structure depth and cross slope limitations or include RFP requirements that the bridge is to be raised or the underlying road lowered to meet the 16'-6" vertical clearance requirement.</p> <p>S.44 If there are existing steel I-girder bridges to be widened within the project limits, include RFP requirements for field welding. (SDG 7.6.H)</p> | <ul style="list-style-type: none"> • District Structures Maintenance Engineer • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 7.7 Deck Grooving | <p>S.45 Does the project include bridges to be widened? If so, include requirements for bridge deck finish in the RFP. (SDG 7.7)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 7.3.7 Substructure | <p>S.46 Are there existing bridges on the project with substructures to be widened? If so, include the existing foundation records in the RFP.</p> | <ul style="list-style-type: none"> • District Geotechnical Engineer • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 7.8 MSE Walls • FDM 262.2 | <p>S.47 Does the project include bridge approaches or roadway sections on MSE walls to be widened? If so, include the details and shop drawings of the existing MSE walls in the RFP. If the MSE reinforcement is metallic or of unknown type, perform all required testing of reinforced backfill, and include the results in the RFP.</p> | <ul style="list-style-type: none"> • State Structural Materials Engineer • State Structures Design Engineer |

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| <ul style="list-style-type: none"> • Structures Design Guidelines Movable Bridges • 8.1 General | <p>S.48 Does the project scope include the rehabilitation of bascule bridge spans? If so:</p> <ul style="list-style-type: none"> ○ include all structural rehabilitation requirements in the RFP. Include all electrical/mechanical rehabilitation requirements not covered in SDG Chapter 8 in the RFP. (SDG 8.1.1.A) ○ Include whether a two leaf configuration is required or whether a single leaf configuration is acceptable. (SDG 8.1.1.A) ○ Include leaf configurations, electrical systems, mechanical systems, and operational requirements in the RFP that provide favorable life cycle cost benefits, can be safely operated, and easily maintained by Department’s forces and that minimize disruptions to the traveling public. (SDG 8.1.1.B) ○ Include mechanical drive and control system redundancy requirements as necessary in the RFP. (SDG 8.1.2.A) ○ Determine whether the span would be small enough to allow the use of sleeve bearings and include requirements in the RFP. (SDG 8.1.3.A.2) ○ Include requirements in the RFP if additional pedestrian safety design elements are warranted. Consider items such as restricted sight lines, high volumes of pedestrian traffic, or frequent movable span operations. Additional pedestrian safety design elements many include secondary pedestrian gates, pedestrian detection technologies, remote monitoring, or cameras. | <ul style="list-style-type: none"> • District Structures Maintenance Engineer • District Structures Design Engineer • State Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines Movable Bridges • 8.1 General | <p>S.49 Specify Horizontal clearance as required by the United States Coast Guard (USCG), Florida Inland Navigation District, and the Army Corps of Engineers. (SDG 8.1.5)</p> | <ul style="list-style-type: none"> • District Structures Maintenance Engineer • District Structures Design Engineer |

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| | S.50 Specify any additional functional checkout tests that will be required for the project. (SDG 8.1.11) | • State Structures Design Engineer |
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| <ul style="list-style-type: none"> • Structures Design Guidelines Movable Bridges • 8.3 Construction Specifications and Design Calculations | <p>S.51 Does the project involve the design and construction of a new bascule bridge span? If so, attach the latest bascule bridge boilerplate “Technical Special Provisions” to the RFP. Contact the State Structures Design Office for Guidance.</p> <p>S.52 Confirm with the District Structures Maintenance Engineer if the frames and glazing must meet the ballistic standards of UL 752, Level 2 (.357 magnum). (SDG 8.9.5.C Commentary)</p> | <ul style="list-style-type: none"> • District Structures Maintenance Engineer • District Structures Design Engineer • State Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 10 Pedestrian Bridges | <p>S.53 Do the pedestrian bridges on the project require unpainted weathering steel, galvanizing, or if a painting system is required, determine whether an Inorganic Zinc Coating System or a High Performance Coating System is preferred? (SDG 10.6.D)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Design Guidelines • 10 Pedestrian Bridges | <p>S.54 Does the project include a new boardwalk and are the non-structural components of the boardwalk required to be plastic lumber? If so, include requirements in the RFP. (SDG 10.6)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Detailing Manual • 2.2 Structures Identification Numbers | <p>S.55 Acquire identification numbers for bridges, overhead signs, high-mast light poles and traffic signal mast arms and denote them in the RFP only if the RFP does not allow the DB Firm to change the number of bridges and miscellaneous structures. (SDM 2.2.B)</p> | <ul style="list-style-type: none"> • District Structures Maintenance Engineer |
| <ul style="list-style-type: none"> • Structures Detailing Manual • 4.4 Concrete Surface Finishes | <p>S.56 Are there bridges or retaining walls that require Class 5 Applied Finish Coating/Tints or Stains? If so, include Class 5 Applied Finish Coating/Tints or Stains requirements and limits in the RFP as required. (SDM 4.4.A)</p> <p>S.57 Is an anti-graffiti coating required? Coordinate with District Maintenance Office to see whether to specify a sacrificial or permanent coating system? Specify type and limits in the RFP. (SDM 4.4.B)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Maintenance Engineer |

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| <ul style="list-style-type: none"> • Structures Detailing Manual • 11.3 Foundation Layout Design Considerations | <p>S.58 Are there critical existing utilities within the project limits? If so, identify and show location in the Concept Plans using Vvh (verified vertical elevation and horizontal location) and refer to them in the RFP. Coordinate with the District Utility Engineer for determining which utilities are considered critical. (SDM 11.3.D)</p> | <ul style="list-style-type: none"> • District Utility Engineer |
| <ul style="list-style-type: none"> • Structures Detailing Manual • 12.6 Design Considerations – End Bent | <p>S.59 Are there requirements for attaching a utility to a structure in the future? If so, include requirements in the RFP. (SDM 12.6.D)</p> | <ul style="list-style-type: none"> • |
| <ul style="list-style-type: none"> • Structures Detailing Manual • 12.7 Design Considerations – Intermediate Bent | <p>S.60 On canal crossings, can an intermediate bent/pier be placed in the center of the channel? If not, include requirements in the RFP. (SDM 12.7.A)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Drainage Engineer |
| <ul style="list-style-type: none"> • Structures Detailing Manual • 18.2 Ramps and Handrails – Grades Greater Than 5% | <p>S.61 Should galvanized steel railing be used in lieu of aluminum pipe railing? If so, include requirements in the RFP. (SDM 18.2.F.3)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • Structures Detailing Manual • 19.6.1 Future Widening | <p>S.62 Does the project have any twin bridges where retaining walls are used in the median between the bridges? If so, consider whether piles and/or end bents should, in lieu of the casing option depicted in SDM 19.6.1.B, be constructed in the median to accommodate future widening and include requirements in the RFP. (SDM 19.6.1.B)</p> <p>S.63 Are there roadways that are supported by MSE walls where future widening is likely in the near future? If so, consider placing the vertical and horizontal limits of the wall at these locations to accommodate the future widening and include requirements in the RFP. (SDM 19.6.1.C)</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| | <p>S.64 Should a maximum wall height or fill height be specified for the project? Should maximum begin bridge stations and minimum end bridge stations be given?</p> | <ul style="list-style-type: none"> • District Geotechnical Engineer • District Structures Design Engineer |
| | <p>S.65 Is the site prone to soil set-up? Should the soil set-up section be included in the RFP that allows for some soil set-up without requiring every pile to be set-checked?</p> | <ul style="list-style-type: none"> • District Geotechnical Engineer |

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| | S.66 Is each bridge superstructure to be constructed of the same material? Will steel spans be allowed in combination with concrete spans? Include requirements in the RFP. | • District Structures Design Engineer |
| | S.67 Should the structure depth of the fascia girders for all bridges be held constant without steps? Are there exceptions? Include requirements in the RFP. | • District Structures Design Engineer |
| | S.68 For aesthetic reasons, will some of the 3rd and 4th level ramp structures within an interchange be required to be box girders? Are there other bridges within the project requiring specific structure types? Include requirements in the RFP. | • District Structures Design Engineer |
| | S.69 Are there specific aesthetic requirements for the bridges and/or walls? Depending on flexibility of the project based on public commitments, provide sketches that outline rigid requirements, or give general level of aesthetic, and guidelines to allow flexibility? Sketches should cover all anticipated pier types and shapes for the project. Specifying Aesthetic Level One, Two or Three is not sufficient. At a minimum define specific textures, colors, and shapes for the various wall and bridge elements. | • District Structures Design Engineer |
| | S.70 Are there existing steel bridges to be painted? If so, contact the District Maintenance/State Materials Office to determine painting system requirements based on a compatible assessment of the existing painting system. Include specific requirements in the RFP. | • District Structures Maintenance Engineer/State Structural Material Systems Engineer |
| | S.71 Should all bridge drainage piping be hidden from view? If so, include requirements in the RFP. | • District Structures Design Engineer |
| | S.72 Should retaining walls/bulkheads have a concrete facing? Should all bulkhead or permanent sheet pile walls have a concrete cap? Are exposed steel wales allowed? If so, include requirements in the RFP. | • District Structures Design Engineer |
| | S.73 Are utility attachments required on the bridge? Include requirements and specify whether utilities are to be hidden from view. | • District Structures Design Engineer • District Utilities Engineer |

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| | S.74 Does project include replacing or rehabilitating an existing bascule bridge where traffic is to be maintained on existing structure during construction? Include all bascule bridge maintenance and operation requirements in the RFP. | • District Structures Design Engineer |
| | S.75 Are there special inspection access requirements such as maximum bridge width or spacing between parallel bridges associated with accommodating snoopers access? Include requirements in the RFP. | • District Structures Maintenance Engineer |
| | S.76 For new bridges to be constructed alongside an existing bridge to remain, should the new substructure components be aligned with the existing substructure components? Include requirements in the RFP. | • District Structures Design Engineer |
| • Structures Design Guidelines • 6.7 Traffic Railing | S.77 How many conduits are required in the bridge traffic railings? Include requirements for each bridge in the RFP | • District Structures Design Engineer • District Utility Engineer |

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| <ul style="list-style-type: none"> • FDM 104, Public Involvement | <p>R.1 Are there project commitments or community issues that have been identified? Are there Community Awareness Plan guidelines to be implemented? Include requirements in the RFP</p> | <ul style="list-style-type: none"> • Project Manager |
| <ul style="list-style-type: none"> • FDOT Airspace Obstruction Brochure¹ • FAA Circular 70/7460-2K, “Proposed Construction or Alteration of Objects That May Affect the Navigable Airspace” • FDM 110.5.1 | <p>R.2 For bridges near airports, will construction be affected by temporary glide path ceiling restrictions? Will any permanent structures such as high mast lighting be prohibited due to permanent glide path ceiling restrictions? Define restrictions and include all airport, local government, and FAA coordination requirements in the RFP.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • FDM 114 Resurfacing, Restoration and Rehabilitation (RRR) | <p>R.3 Is the project a RRR project? If so, include criteria based on FDM 114 and appropriate FDM Design Criteria, Part 2.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 121.9 Bridge Feasibility Assessment/Structures Concept Plans | <p>R.4 Specify aesthetic and wildlife connectivity requirements in the RFP, if any.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • FDM 121.12 Independent Department Review (IDR) | <p>R.5 If the project requires an Independent Department Review (IDR), contact the Structures Design Office to establish schedule durations for each IDR on the project.</p> <p>Is it anticipated that the project will include the foundations that trigger Category 2 structure classification? If so, include a geotechnical consultant on the IDR team.</p> | <ul style="list-style-type: none"> • State Structures Design Engineer • State Structural Materials Engineer |
| <ul style="list-style-type: none"> • FDM 122.2 Design Exceptions and Variations Identification | <p>R.6 Are there design variations or exceptions required associated with the Concept Plans? If so, provide all necessary Design Exceptions and Design Variations as an attachment to the RFP.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • General 3rd Party Commitments • FDM 127 Community Aesthetic Features | <p>R.7 Are there third-party commitments that need to be included in the RFP? If so, reference all commitments in the RFP as</p> | <ul style="list-style-type: none"> • District Design Engineer |

¹ http://www.florida-aviation-database.com/dotsite/pdfs/2007_Air_space_Brochure.pdf

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| | requirements. See Project Commitments Record Form No. 700-011-035, and PD&E documents. | |
| <ul style="list-style-type: none"> • FDM Context Classification • FDM 200 Context Based Design | R.8 What is the context classification of each road potentially impacted by this project? List the context classifications in the RFP. | <ul style="list-style-type: none"> • State Complete Streets Program Manager |
| <ul style="list-style-type: none"> • FDM 201.2 Traffic and Design Year • FDM 201.4 Design Speed | R.9 At a minimum, provide the following project specific traffic information as part of the RFP: <ul style="list-style-type: none"> ○ AADT for the current year, opening year (completion of construction) and design year, ○ Existing hourly traffic volumes over minimum of 24-hour period, including peak hour turning movements and pedestrian counts, ○ Directional distribution factor (D), ○ Standard K factor (K), ○ Truck factors (T) for daily and peak hour, ○ Design speed and proposed posted speed, ○ Design vehicle for geometric design, ○ Turning movements and diagrams for existing and proposed signalized intersections, ○ Special or unique traffic conditions, including during construction, ○ Crash history, including analyses at high crash locations within the project limits, and ○ Recommendations regarding parking or other traffic restrictions. | <ul style="list-style-type: none"> • |
| <ul style="list-style-type: none"> • FDM 201.3 Access Management | R.10 Are there any special access management commitments including driveway locations or modifications, etc? If so, include requirements in the RFP. | <ul style="list-style-type: none"> • District Traffic Operations Engineer |
| <ul style="list-style-type: none"> • FDM 201.4 Design Speed | R.11 Has the design speed been approved by the District Design Engineer and the District Traffic Operations Engineer? Include requirements in the RFP. | <ul style="list-style-type: none"> • District Design Engineer • District Traffic Operations Engineer |
| <ul style="list-style-type: none"> • FDM 201.5 Design Vehicle | R.12 Have design vehicle requirements been determined? Include requirements in the RFP | <ul style="list-style-type: none"> • District Design Engineer |

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| <ul style="list-style-type: none"> • FDM 210.1 General | <p>R.13 Is this a RRR project? If so, provide specific RRR criteria in accordance with FDM 114.</p> <p>R.14 Does the project include an SIS or Emergency SIS Highway Intermodal Connector on the local System? If so, specify in the RFP whether FDM SIS criteria will be used, or if the Florida Green Book will be allowed.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 210.2.4.2 and 211.2.3 Hydroplaning Risk Analysis | <p>R.15 For projects containing nonstandard Pavement Cross Slopes (Figure 210.21), has the District Drainage Engineer determined whether a hydroplaning analysis is a requirement of the RFP? If so, include requirements in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Design Engineer • District Quality Assurance Administrator |
| <ul style="list-style-type: none"> • FDM 210.3 Median • FDM 210.2 Lanes | <p>R.16 If there are high speed urban and/or suburban arterial highways on the project, include requirements in the RFP for minimum median width and left turn lanes</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 210.5.1 High-Speed Curbed Roadways | <p>R.17 Does the project include high-speed urban or suburban arterial Highways? Include any special criteria or guidance needed in the RFP.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM Table 211.3.1 Minimum Median Widths | <p>R.18 Does the facility have the ability to be expanded in the future? Have you accommodated for future expansion in the RFP? If so, include requirements in the RFP.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 211.3.2.1 Existing Crossovers | <p>R.19 Does the project include limited access facilities with median crossovers for emergency vehicles? Include a statement in the RFP that the crossover locations shall be at specific milepost locations, as shown in the Concept Plans or in an approved ATC.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 211.3.3 Express Lanes Separation • FDOT Express Lanes Manual (FELM) | <p>R.20 Does the limited access facilities include express lanes with wide buffer separation? Include any special criteria or guidance needed for the wide buffer separation in the RFP.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM Table 211.4.5 Emergency Refuge Areas | <p>R.21 Does the RFP include information pertaining to Emergency Refuge Areas? Consideration of Emergency Refuge Areas must be coordinated with Traffic Operations, Maintenance and Law Enforcement. For Express Lane projects, Toll</p> | <ul style="list-style-type: none"> • District Design Engineer |

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| | Operations should be included in coordination. If coordination has occurred, include Emergency Refuge Area requirements and criteria in the RFP. | |
| • FDM 211.6 Border Width | R.22 Does the project include limited access roadway facilities? If so, specify fencing, wall, or barrier – type, location, and height limits. | • District Design Engineer |
| • FDM 213.1.1 Roundabout Evaluation | R.23 Have roundabout alternatives been evaluated for the project? Include requirements in the RFP | • District Design Engineer |
| • FDM 214.3 Driveway Horizontal Geometry | R.24 Are small radial returns needed on Connection Category B driveways associated with the Concept Plans? If so, include requirements in the RFP. R.25 Are any driveways anticipated to have an angle of driveway less than 60 degrees for Connection Category A driveways? If so, include requirements in the RFP. | • District Design Engineer • Operations/Maintenance Engineer |
| • FDM 214.3.2 Driveway Width | R.26 Are driveway widths that exceed the maximum driveway width values shown in the Concept Plans? If so, include requirements in the RFP. | • District Design Engineer |
| • FDM 214.4.1 Driveway Profile on Curbed Roadways | R.27 Are any existing commercial driveways expected to be reconstructed with a grade greater than 10%? If so, provide the following in the RFP: <ul style="list-style-type: none"> ○ Documentation that an adverse roadway operational or safety impact would not result from the proposed grade ○ Approval by District Design Engineer | • District Design Engineer |
| • FDM 215.2.6 Roadside Slope Criteria | R.28 Do you anticipate embankment slopes steeper than 1:3? If so, include all acceptable erosion control measures in the RFP. | • District Maintenance Engineer • District Landscape Architect |
| • FDM 220.1.3 Railroads - Required Coordination | R.29 If applicable, has the railroad coordination noted in this section occurred and requirements/criteria placed in the RFP? This includes early coordination with Central Office, the District Rail Coordinator, the District Traffic Operation Engineer, Central Office Freight and Multimodal Operations | • District Rail Coordinator |

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| | Office, the District Specifications Engineer, and the Central Specifications Office. | |
| • FDM 221 Utilities | R.30 Are there existing or proposed utilities within the project limits that require new or modified subordination agreements? If so, determine all easement or subordination agreement requirements and include in the RFP. | <ul style="list-style-type: none"> • District Utilities Administrator • Utility Accommodation Manual |
| • FDM 222.2.1 Sidewalks | R.31 Is the project located in or within one mile of an urban area? If so, specify if sidewalks are to be provided along one or both sides of roadways. | <ul style="list-style-type: none"> • District Pedestrian and Bicycle Coordinator • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 222.2.1 Sidewalk • FDM 223.2.1 Bicycle Lanes • FDM 224.1.2 Considerations • FDM 224.4 Widths | R.32 Are there existing or proposed pedestrian, bicycle or public transit facilities adjacent to or within the project limits? If so, specify the width and separation from the roadway for sidewalks and shared use paths and location and type of public transit facilities in the RFP. | <ul style="list-style-type: none"> • District Bicycle and Pedestrian Coordinator • District Modal Development Office Coordinators |
| • FDM 222.4 Pedestrian Drop-off Hazards and Railings | R.33 Does the project include Pedestrian/Bicycle Railing and does a Local Agency want a painted or special railing, other than the standard galvanized steel or aluminum? If so, include the requirements in the RFP. | <ul style="list-style-type: none"> • District Pedestrian and Bicycle Coordinator • District Design Engineer |
| • FDM 222.2.8 Public Transit Loading Zones | R.34 Is the project within the operational limits of a local transit agency service area? If so, include requirements in the RFP so that access to transit services by pedestrians and bicyclists is provided. | <ul style="list-style-type: none"> • District Pedestrian and Bicycle Coordinator • District Design Engineer |
| • FDM 223.2.1.4 Green Color Bicycle Lanes | R.35 Are there bike lanes included as part of the project? If so, determine if green bike lanes are required. Provide requirements in the RFP. | <ul style="list-style-type: none"> • District Pedestrian and Bicycle Coordinator • District Design Engineer |
| • FDM 224.8 Vertical Clearance | R.36 Is a vertical clearance greater than 10 feet needed to accommodate equestrians, maintenance vehicles, or emergency vehicles; is it needed for underpasses or tunnels; or is it part of the SUN Trail? If so, include the requirements in the RFP. | <ul style="list-style-type: none"> • District Pedestrian and Bicycle Coordinator • District Design Engineer |
| • FDM 225.2 Boarding and Alighting Areas | R.37 Are boarding and alighting areas needed at bus stops? If so, include the requirements in the RFP. | <ul style="list-style-type: none"> • District Design Engineer |

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| <ul style="list-style-type: none"> • FDM 228.2 Landscape Design Requirements | <p>R.38 Does the project include landscaping? If so, specify the following requirements in the RFP as applicable:</p> <ul style="list-style-type: none"> ○ Change the characteristics of the roadway corridor to encourage lower operating speeds. ○ Protect, conserve, complement, and enhance natural roadside vegetation, scenic resources, and natural features. ○ Screen unfavorable views. ○ Reduce stormwater runoff. ○ Sequester carbon. ○ Create high quality transportation facilities and travel experiences that create value for residents and Florida’s tourism sector. ○ Provide shade and comfort for pedestrians, bicyclists, and transit riders. ○ Mitigate heat-island effect. ○ Support community efforts for economic development, urban revitalizations, and aesthetic enhancements. ○ Relocate existing vegetation. ○ Selectively clear and thin existing vegetation. ○ Provide time and space for natural regeneration and succession of native plants. ○ Reforest with native trees. ○ Select Florida-native plants with known provenance (original source of plants stock) as close to planting site as possible. ○ Select and place plants to minimize impacts to natural areas. ○ Select and place plants to minimize the need to maintain uniform height and spacing to sustain design intent. | <ul style="list-style-type: none"> • District Landscape Architect • District Environmental Management Office • District Maintenance |
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| | <ul style="list-style-type: none"> ○ Select recycled and recyclable materials. Select a diverse mix of plants. A rule of thumb is that the most sustainable landscapes have an uneven aged mix of no more than 10 percent of the same species, 20 percent of the same genus, and 30 percent of the same family. | |
| • FDM 228.4 Landscape Maintenance Plan | R.39 Is the proposed landscape compatible with the maintaining agency's maintenance resources, abilities, and practices? Include any special requirements of the maintaining agencies in the RFP. | <ul style="list-style-type: none"> • District Design Engineer • District Landscape Architect • District Maintenance |
| • FDM 229.1 General | R.40 Are there any areas that have been identified for selective clearing and grubbing, tree protection, or plant preservation in other project development phases? If so, include requirements in the RFP. | <ul style="list-style-type: none"> • District Design Engineer • District Landscape Architect • District Environmental Manager |
| • FDM 230.2.7 Delineators Object Markers and Express Lane Markers | R.41 Does the project require delineators? Include any special criteria or guidance needed in the RFP. | <ul style="list-style-type: none"> • District Maintenance Engineer |
| • FDM 230.3.1 Selection of Pavement Marking Material Selection | <p>R.42 Does the project include existing permanent pavement markings to be replaced? If so, determine if any of the existing pavement marking needs to be removed and specify refurbishment thermoplastic or other pavement marking material and whether black paint for contrast is needed. (FDM 230.3.1.1)</p> <p>R.43 Does the project include existing permanent pavement markings to be refurbished? If so, determine if any of the existing pavement marking needs to be removed and specify durable paint or other pavement marking material and whether black paint for contrast is needed. (FDM 230.3.1.5)</p> | <ul style="list-style-type: none"> • District Maintenance Engineer • District Construction Engineer |
| • FDM 232.4 Controller Assemblies | R.44 Are there intersections within the project limits where future expansion is anticipated? If so, provide any special requirements in the RFP to accommodate future expansion. | <ul style="list-style-type: none"> • District Traffic Operations Engineer |

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| <ul style="list-style-type: none"> • FDM 232.8.1 Mast Arm Policy | <p>R.45 Is it impractical to support signals on galvanized mast arms within the 10-mile coastline boundary? Specify use of two-point span wire assembly with adjustable hangers in the RFP and include an approved Design Variation. If the Local Maintaining Agency prefers mast arms outside the 10-mile coastline boundary or prefers paint over galvanizing, include requirements in the RFP.</p> | <ul style="list-style-type: none"> • District Design Engineer • District Traffic Operations Engineer |
| <ul style="list-style-type: none"> • FDM 240.1 General • FDM 240.3 TMP Considerations | <p>R.46 Are there roads on the project under the jurisdiction of a local agency? Include any special requirements in the RFP the local agencies may have.</p> <p>R.47 Specify public relations activities such as media releases, television and radio spots, or handbills in the RFP</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 240.4.2.13 Highway Lighting | <p>R.48 Will temporary lighting be required? If so, include requirements in RFP.</p> | <ul style="list-style-type: none"> • District Design Engineer |
| <ul style="list-style-type: none"> • FDM 240.9.6.3 Coordination, Documentation and Payment | <p>R.49 Does the project require a Speed and Law Enforcement Officer? If so, provide requirement in the RFP.</p> | <ul style="list-style-type: none"> • District Construction Office |
| <ul style="list-style-type: none"> • FDM 250.2 Scour Calculations | <p>R.50 Does the project include a minor bridge widening? If so, assess adequacy of existing structure and include strengthening requirements as required in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |

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| <ul style="list-style-type: none"> • FDM 260.8.1 Vertical Clearance • SDG 1.4 Concrete and Environment • SDG 4.3 Pretensioned Beams | <p>R.51 Does the project include a possible concrete bridge over water where the environmental classification is moderately aggressive or extremely aggressive due to chloride content? If so, can the superstructure (with standard carbon steel strand and reinforcing) be located above the splash zone when vertical profiles, structure depths, and driveway access requirements are accounted for? If not, include requirements in the RFP. Is it acceptable to use a lower vertical profile and allow the superstructure (with alternative strand and reinforcing materials) to be within the splash zone (SDG 4.3.1.A)? If so, include requirements in the RFP.</p> <p>R.52 Does the project include a possible steel bridge over water? If so, determine the required vertical clearance based on environmental site conditions and input from the District Maintenance Engineer. If the required vertical clearance is greater than 12 ft above Mean High Water (MHW) default value, include as a requirement in RFP.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer • District Structures Maintenance Engineer • District Materials Engineer |
| <ul style="list-style-type: none"> • FDM 260.8.3 Regulatory Agency Requirements | <p>R.53 Does the project include a bridge over a navigable waterway? Are the minimum vertical clearances listed in FDM 260.8.1 under Navigation, Items 1 thru 3 adequate to accommodate recreational vessels? If not, include vertical clearance requirements in the RFP. Also include requirements regarding submerged footings as necessary.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • FDM 261.2 Overhead Sign Structures | <p>R.54 Does the project include the possible use of custom (non-standard) overhead sign structures? If so, include design requirements in the RFP. Provide a preliminary design solution in the Concept Plans that complies with the RFP.</p> | <ul style="list-style-type: none"> • District Structures Design Engineer |
| <ul style="list-style-type: none"> • FDM 263.1 Geosynthetic Design, General | <p>R.55 Is organic material or other soft soil deposits present on the project where removal is impractical? Provide guidance or requirements on alternative foundation designs in the RFP.</p> | <ul style="list-style-type: none"> • District Geotechnical Engineer |
| <ul style="list-style-type: none"> • FDM 265.2 Structure Type Selection | <p>R.56 Does project include major cross-drains? If so, specify if corrugated metal structures will be prohibited in lieu of</p> | <ul style="list-style-type: none"> • Project Manager • District Drainage Engineer |

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| | concrete box culverts. If so, are there any restrictions other than passing an environmental analysis on the use of corrugated metal structures? Provide the parameters? | • Project Commitments Records |
| • FDM 330.5 Plan Sheets | R.57 Is the Contact information included in the RFP for any Utility/Agency Owner receiving salvaged utility infrastructure? | • District Utilities Engineer |

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| <ul style="list-style-type: none"> • Drainage Manual, 2013 Edition | <p>D.1 Are portions of R/W, including areas for future ditches and ponds, planned to be used for future widening? If so, provide restrictions on full use of R/W for design.</p> <p>D.2 Are existing culverts being left in place or extended? If so, inspect the culverts beforehand and identify, in the RFP, which culverts need to be repaired and which need to be replaced. For culverts that require repair, detailed repairs must be included in the RFP.</p> <p>D.3 Are inverted siphons allowed on the project? If not, prohibit them in the RFP.</p> <p>D.4 Are trapezoidal weirs as pond control structures (controlled pond overflow) allowed in lieu of a typical control structure using a drainage structures and pipes? If so, state in the RFP and provide criteria for design.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 2.4.4 Channel Bottom | <p>D.5 Are v-bottom ditches allowed? If so, state in RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 2.5 • Open Channel – Construction and Maintenance Considerations | <p>D.6 Are maintenance berm widths in the Drainage Manual (DM) Section 2.5 appropriate and doable to maintain ditches and ponds? If not, specify minimum berm widths in the RFP.</p> <p>D.7 Is increased maintenance access needed for future expansion of the facilities? If so, state in RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 2.6.1 • Open Channel – Protective Treatment | <p>D.8 Contact maintenance to decide whether or not fencing is required and state in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 3.3 Storm Drain – Design Frequency | <p>D.9 Do site-specific factors warrant the use of atypical design frequency for storm drain systems? If so, specify required design frequency in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |

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| <ul style="list-style-type: none"> • Drainage Manual Section 3.5 Storm Drain – Hydrologic Analysis | <p>D.10 If the system design is to use routed hydrographs, state so in the RFP and supersede Section 3.5.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 3.6.1 Storm Drain – Pipe Slopes | <p>D.11 Is the terrain flat enough to allow a storm drain system velocity less than 2.5 fps? If so, cite the minimum allowable velocity in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 3.7 Storm Drain – Protective Treatments | <p>D.12 Is protective treatment of hydraulic openings needed for limited access areas? If so, state in RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual, Section 3.7.2 Storm Drain – Manholes | <p>D.13 If manholes must, of necessity, be placed in the wheel path, please allow in RFP and supersede this section.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 3.10 Storm Drain – Construction and Maintenance Considerations | <p>D.14 Are 2-piece manhole lids required on certain structures? If so, state in RFP.</p> <p>D.15 Are curb inlet screens required? If so, state in RFP and also require catch basin pipe connection screen in conjunction with curb inlet screens.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 3.10.2 Storm Drain – Minimum Clearances | <p>D.16 Are unique utility clearances involved? If so, state in RFP.</p> <p>D.17 Is unique utility conflict structure maintenance access needed? If so, state in RFP.</p> <p>D.18 Is a 2 or 4 ft. sump needed due to expected siltation (such as near the beach)? If so, state in RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 3.11.1 Storm Drain – MSE Walls | <p>D.19 Are there MSE walls with internal drainage pipes on the project? Decide on the allowable layout of the storm drain system within MSE walls and include direction in the RFP. If pipes must go through MSE walls, specify that the pipe, external to the wall, should not be attached to the pipe, internal to the wall, until the MSE embankment is at full depth. This is intended to avoid excessive shear loads due to short term MSE wall settlement.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |

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| <ul style="list-style-type: none"> • Drainage Manual Section 3.11.2 Storm Drain – Noise Walls | <p>D.20 Are there restrictions on the allowable locations of French drains (ex.: large trees, potable water supply wells, near utilities, adjacent to the R/W, karst areas)? If so, include in the RFP.</p> <p>D.21 Are there special circumstances that warrant departure from the French drain dimensional criteria? If so, state in RFP and override 3.11.2</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 3.11.3 Storm Drain – French Drains | <p>D.22 Are resilient connectors required on certain drainage structures? If so, state in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 4.3.1 Cross Drain Hydraulics – Design Frequency for Permanent Facilities | <p>D.23 Do any cross drains or bridges deserve a higher or lower design frequency than in the table? If so, state in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 4.3.2 Cross Drain Hydraulics – Design Frequency for Temporary Facilities | <p>D.24 Do any of the temporary facilities for cross drains or bridges deserve, due to upstream flooding issues, a higher or lower design frequency than in the table? If so, state in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 4.6 Cross Drain Hydraulics – Clearances | <p>D.25 Are bridge widenings included that will result in a violation of the required drift clearance? If so, consider accepting the reduced drift clearance rather than rebuilding the bridge and state so in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 4.8.2 Cross Drain Hydraulics – Tidal Crossings | <p>D.26 Does coastal hydraulics play a significant role in a roadway or bridge project’s design? If so, require a qualified coastal engineer in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 4.9.1 Cross Drain Hydraulics – Berms for Spill-Through Abutment Bridges | <p>D.27 Is a maintenance berm width different than 10 ft. required? If so, state requirement in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 4.10.4.1 Cross Drain Hydraulics – Minimum Culvert Sizes | <p>D.28 Will future improvements affect the design of cross drains? If so, provide criteria in the RFP.</p> <p>D.29 Are there cross drain flows that may require more than 2 pipes? Address cross drain alternatives in the RFP?</p> | <ul style="list-style-type: none"> • District Drainage Engineer |

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| <ul style="list-style-type: none"> • Drainage Manual Section 5.3.1.1 Stormwater Management - General | <p>D.30 Are offsite inflows flowing toward the project, and might dry retention be used for water quality treatment? If so, decide on whether or not to pursue co-mingling and, if possible, resolve the matter beforehand with the Water Management District.</p> <p>D.31 Are joint use or regional ponds to be considered? If so, provide criteria in the RFP.</p> <p>D.32 Provide direction, per the Drainage Manual, for the elevation at which the pond routing will commence.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 5.3.1.2 Stormwater Management – Watersheds with Positive Outlets | <p>D.33 Is the project discharging to a known flooding problem? If so, decide whether or not to invoke Rule 14-86.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 5.3.4.2 Stormwater Management – Detention and Retention Ponds | <p>D.34 Are there unusual pond maintenance needs or is R/W too limited for typical maintenance access? If so, discuss with Maintenance and include direction in the RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |
| <ul style="list-style-type: none"> • Drainage Manual Section 6.2 • Optional Culvert Materials - Durability | <p>D.35 Is the amount of pipe on the project sufficiently small to warrant using soil maps rather than site specific soil testing? If so, state in RFP.</p> | <ul style="list-style-type: none"> • District Drainage Engineer |