

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Army Corps permitting Requirements	E.1 <u>Removal Limits to Facilitate Future Channel Maintenance Dredging – ACOE:</u> 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?	District Environmental Manager, Environmental Permits Coordinator
PD&E Manual Part 1, Chapter 12 (old Chapter 10) PPM Manual Part 1 Chapter 11 Structures Detailing Manual 22.2	E.2 <u>Storm Water Pollution Prevention Plan:</u> 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?	District Environmental Manager, Environmental Permits Coordinator
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	E.3 <u>Seagrass Avoidance and Minimization:</u> 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?	District Environmental Manager, Environmental Administrator, Environmental Permits Coordinator

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>PD&E Manual Part 1, Chapter 12 (old Chapter 10)</p> <p>PD&E Manual Part 2, Chapter 27</p>	<p>E.4 <u>Wildlife and Habitat Impacts:</u> 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>	<p>District Environmental Manager, Environmental Administrator, Environmental Permits Coordinator</p>
<p>PD&E Manual Part 2, Section 17-9</p> <p>PD&E Manual Part 2, Chapter 30</p>	<p>E.5 <u>Construction Noise:</u> Are there local ordinances related to noise? What are the specific requirements to be conveyed in RFP?</p>	<p>District Environmental Manager, Environmental Administrator</p>
<p>PD&E Manual Part 2, Section 17-9</p> <p>PD&E Manual Part 2, Chapter 30</p> <p>Soils and Foundations Handbook Section 9.2.4</p>	<p>E.6 <u>Construction Vibration:</u> 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>	<p>District Geotechnical Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>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>	<p>E.7 <u>Wetland Avoidance and Minimization:</u> Are there jurisdictional wetlands within the project limits? Are there areas within the R/W limits that the Contractor can not 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>	<p>District Environmental Manager, Environmental Administrator, Environmental Permits Coordinator</p>
<p>PD&E Manual Part 2, Chapter 12 FDOT Cultural Resources Handbook Coordination Procedures ((http://www.dot.state.fl.us/emo/NA%20Website%20Files/index.shtm))</p>	<p>E.8 <u>Archaeological and Historic Sites:</u> Are there archaeological or historic properties impacted by the project? <u>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).</u> Include specific requirements in the RFP?</p>	<p>District Environmental Manager, Environmental Permits Coordinator</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>PD&E Manual Part 2, Chapter 22 Environmental Document, Contamination Screening Evaluation Report</p>	<p>E.9 <u>Contamination Impacts:</u> 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.</p>	<p>District Environmental Manager, District Contamination Impact Coordinators, District Geotechnical Engineer</p>
<p>PD&E Manual Part 2, Chapter 17 Plans Preparation Manual, Vol. 1, Chapter 32 (Topic No. 625-000- 007)</p>	<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 Instructions for Design Standards Index 5200)</p>	<p>District Environmental Manager, District Noise Specialist, District Structures Engineer</p>
<p>PD&E Manual Part 2, Chapter 17 Plans Preparation Manual, Vol. 1, Chapter 32 (Topic No. 625-000- 007)</p>	<p>E.12 Does the project require Perimeter Walls? If so and the required wall deviates from Standard Index 5250, provide wall details/requirements in the RFP. (PPM 32.6.3)</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. (Instructions for Design Standards Index 5250)</p>	<p>District Environmental Manager, District Structures Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines 1.4 Concrete and Environment	S.1 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)	District Design Engineer
Structures Design Guidelines 1.10 Limitations on Bridge Skew Angle	S.2 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 have to be placed within narrow skewed medians of underlying roadways? If so, get concurrence with the Structures Design Office and include requirements in the RFP. (SDG 1.10)	District Structures Design Engineer
Structures Design Guidelines 2.6 VEHICULAR COLLISION FORCE	<p>S.3 Are there any new grade separated bridges, existing grade separated bridges to remain, or grade separated bridges to be widened that are deemed to be critical for heavy vehicle impact loading? If so, include requirements in the RFP. (SDG 2.6.1.A & 2.6.3.A)</p> <p>S.4 Do any of the new bridges, existing bridge to remain, or bridges to be widened span Rail Road tracks? If so, include any crash wall requirements in the RFP. (SDG 2.6.7.H)</p>	District Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines 2.10 REDUNDANCY AND OPERATIONAL IMPORTANCE	S.5 Are there bridges considered critical to the survival of major communities, or 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. If bridges are not considered critical, use an operational importance factor of 1.0. (SDG 2.10.B & PPM 26.9.7)	District Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>Structures Design Guidelines 2.11 VESSEL COLLISION</p>	<p>S.6 Does the new bridge or major widening cross a navigational waterway? Based on past point survey data, develop ship impact load, versus distance from navigable channel in RFP. Or 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.7 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.8 Does bridge cross a navigational waterway? If so, specify the minimum main span length in the RFP based on a ship impact assessment, requirements of permitting agencies or aesthetic requirement whichever controls? (SDG 2.11.7)</p>	<p>District Structures Design Engineer</p>
<p>Structures Design Guidelines 3.3 FOUNDATION SCOUR DESIGN</p>	<p>S.9 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>	<p>District Structures Design Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines 3.5 DRIVEN PILES	S.10 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 inch should be allowed. If so, provide specific requirements in the RFP. (SDG 3.5.1.F)	District Materials Engineer and District Structures Design Engineer
Structures Design Guidelines 3.11 PIER, COLUMN, AND FOOTING DESIGN	S.11 If bottom of footing elevations are 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.B.1) S.12 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.B)	District Structures Design Engineer
Structures Design Guidelines 3.12 RETAINING WALL TYPES	S.13 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)	District Structures Design Engineer and District Maintenance Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines 3.12 RETAINING WALL TYPES	S.14 Are there reasons to prohibit GRS walls or abutments for in any portions of the project? If so, provide detailed limitations in the RFP. (SDG 3.12.12 & SDG 3.13.4)	District Structures Design Engineer, District Geotechnical Engineer and State Structures Design Engineer
Structures Design Guidelines 3.14 FENDER SYSTEMS	<p>S.15 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.16 Determine whether Standard Index 21930 is allowed based on vessel traffic of the site. If index 21930 is not allowed, state restrictions in the RFP. (SDG 3.14.2.D)</p>	<p>District Structures Design Engineer</p> <p>EMO District Permit Coordinator</p>
Structures Design Guidelines 3.14 FENDER SYSTEMS	<p>S.17 Include requirements in the RFP for Navigation Lighting and Clearance Gauge Details (SDG 3.14.2.F.1)</p> <p>S.18 Include requirements in RFP for Access Ladders, Platforms, and Catwalks if a fender system is required. (SDG 3.14.2.G)</p>	District Structures Design Engineer or District Structures Maintenance Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines 4.2 DECK SLABS	S.19 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)	District Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>Structures Design Guidelines 5 SUPERSTRUCTURE - STEEL</p>	<p>S.20 Are there steel structures located in very harsh environments not specifically covered under SDG 5.12.1 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 and SDG 5.12.1)</p> <p>S.21 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 D/B RFP (SDG 5.1.1.C).</p> <p>S.22 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.23 Is the use of weathering steel prohibited by site conditions or aesthetic considerations? If so, include requirements for coating system in RFP. (SDG 5.3.1.A , SDG 5.12.A)</p> <p>S.24 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>	<p>District Structures Design Engineer or District Structures Maintenance Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>Structures Design Guidelines 6.4 EXPANSION JOINTS</p>	<p>S.25 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.26 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 D/B RFP. (SDG 6.4.5.B)</p>	<p>District Structures Design Engineer or District Structures Maintenance Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>Structures Design Guidelines 6.7 TRAFFIC RAILING</p>	<p>S.27 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.28 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.29 Is a TL-5 or TL-6 barrier required within the limits of the project? If so, include limits in D/B RFP. (SDG 6.7.6)</p> <p>S.30 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>District Structures Design Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>Structures Design Guidelines 7 WIDENING AND REHABILITATION</p>	<p>S.31 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 and 7.6.H.5)</p> <p>S.32 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>	<p>District Structures Maintenance Engineer, District Structures Design Engineer</p>
<p>Structures Design Guidelines 7 WIDENING AND REHABILITATION</p>	<p>S.33 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>	<p>District Structures Design Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines 7.6 WIDENING RULES	S.34 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)	District Structures Design Engineer
Structures Design Guidelines 7.6 WIDENING RULES	<p>S.35 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. (SDG 7.6.E)</p> <p>S.36 If there are existing steel I-girder bridges to be widened within the project limits, include RFP requirements for field welding to compression flanges of existing girders. (SDG 7.6.H.5)</p>	District Structures Maintenance Engineer, District Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines 7.7 DECK GROOVING	S.37 Does the project include bridges to be widened? If so, include requirements for bridge deck finish in the RFP. (SDG 7.7)	District Structures Design Engineer
	S.38	
Structures Design Guidelines Movable Bridges 8.1 General	<p>S.39 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 8.1.3.2) 	District Structures Maintenance Engineer, District Structures Design Engineer, State Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Design Guidelines Movable Bridges 8.1 General	<p>S.40 Specify Horizontal clearance as required by the United States Coast Guard (USCG) and the Army Corps of Engineers. (SDG 8.1.5)</p> <p>S.41 Specify any additional functional checkout tests that will be required for the project. (SDG 8.1.11)</p>	District Structures Maintenance Engineer, District Structures Design Engineer, State Structures Design Engineer
Structures Design Guidelines Movable Bridges 8.3 CONSTRUCTION SPECIFICATIONS AND DESIGN CALCULATIONS	<p>S.42 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.43 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>	<p>District Structures Maintenance Engineer, District Structures Design Engineer, State Structures Design Engineer</p> <p>District Structures Maintenance Engineer</p>
Structures Design Guidelines 10 PEDESTRIAN BRIDGES	S.44 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 10.1.B)	District Structures Design Engineer
Structures Design Guidelines 10 PEDESTRIAN BRIDGES	S.45 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.I)	District Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Detailing Manual 2.2 STRUCTURES IDENTIFICATION NUMBERS	S.46 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 2.2B)	District Structures Maintenance Engineer
Structures Detailing Manual 4.4 CONCRETE SURFACE FINISHES	<p>S.47 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.48 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>	District Structures Design Engineer , District Maintenance Engineer
Structures Detailing Manual 11.3 FOUNDATION LAYOUT DESIGN CONSIDERATIONS	S.49 Are there critical existing utilities within the project limits? If so, indentify 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)	District Utility Engineer
Structures Detailing Manual 12.6 DESIGN CONSIDERATIONS – END BENT	S.50 Are there requirements for attaching a utility to a structure in the future? If so, include requirements in the RFP. (SDM 12.6.D)	

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Structures Detailing Manual 12.7 DESIGN CONSIDERATIONS – INTERMEDIATE BENT	S.51 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)	District Structures Design Engineer , District Drainage Engineer
Structures Detailing Manual 18.2 RAMPS AND HANDRAILS – GRADES GREATER THAN 5%	S.52 Should galvanized steel railing be used in lieu of aluminum pipe railing? If so, include requirements in the RFP. (SDM 18.2.F.3)	District Structures Design Engineer
Structures Detailing Manual 19.6.1 FUTURE WIDENINGS	<p>S.53 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.54 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>	District Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
	S.55 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?	District Geotechnical Engineer and District Structures Design Engineer
	S.56 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?	District Geotechnical Engineer
	S.57 Is each bridge superstructure to be constructed of the same material? Will steel spans be allowed in combination with concrete spans?	District Structures Design Engineer
	S.58 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.59 For aesthetic reasons, will some of the 3 rd and 4 th 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

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
	<p>S.60 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.</p>	<p>District Structures Design Engineer</p>
	<p>S.61 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.</p>	<p>District Structures Maintenance Engineer/State Structural Material Systems Engineer</p>
	<p>S.62 Should all bridge drainage piping be hidden from view? If so, include requirements in the RFP.</p>	<p>District Structures Design Engineer</p>
	<p>S.63 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.</p>	<p>District Structures Design Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
	S.64 Are utility attachments required on the bridge? Include requirements and specify whether utilities are to be hidden from view.	District Structures Design Engineer or District Utilities Engineer
	S.65 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.66 Are there special inspection access requirements such as maximum bridge width or spacing between parallel bridges associated with accommodating snoopers access?	District Structures Maintenance Engineer
	S.67 For new bridges to be constructed alongside an existing bridge to remain, should the new substructure components be aligned with the existing substructure components?	District Structures Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>FDOT Airspace Obstruction Brochure</p> <p>http://www.florida-aviation-database.com/dotsite/pdfs/2007_Airspace_Brochure.pdf</p> <p>FAA Circular 70/7460-2K, “Proposed Construction or Alteration of Objects That May Affect the Navigable Airspace”</p> <p>PPM, Volume 1, Section 2.10.4</p>	<p>P.1 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>	<p>District Structures Design Engineer</p>
<p>General 3rd Party Commitments</p> <p>PPM, Volume 1, Section 1.11, Context Sensitive Solutions in Design</p> <p>PPM, Volume 1, Section 9.5, Community Aesthetic Features</p> <p>PPM, Volume 1 Chapter 21, Transportation Design for Livable Communities</p>	<p>P.2 Are there third party commitments that need to be included in the RFP? If so, reference all commitments in the RFP as requirements. See Project Commitments Record Form No. 700-011-035, and PD&E documents.</p>	<p>District Design Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>PD&E Manual Part 1, Chapter 12 (old Chapter 10)</p> <p>PPM Volume 1, Chapter 11</p> <p>Structures Detailing Manual 22.2</p>	<p>P.3 <u>Storm Water Pollution Prevention Plan:</u> 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>	<p>District Environmental Manager, Environmental Permits Coordinator</p>
<p>PPM, Volume 1, Section 1.2, Traffic, Section 1.9, Design Speed</p>	<p>P.4 At a minimum, provide the following project specific traffic information as part of the RFP:</p> <ul style="list-style-type: none"> A. AADT for the current year, opening year (completion of construction) and design year, B. Existing hourly traffic volumes over minimum of 24-hour period, including peak hour turning movements and pedestrian counts, C. Directional distribution factor (D), D. Standard K factor (K), E. Truck factors (T) for daily and peak hour, F. Design speed and proposed posted speed, G. Design vehicle for geometric design, H. Turning movements and diagrams for existing and proposed signalized intersections, I. Special or unique traffic conditions, including during construction, J. Crash history, including analyses at high crash locations within the project limits, and K. Recommendations regarding parking or other traffic restrictions. 	<p>District Design Engineer, District Traffic Operations Engineer, and District Safety Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
PPM Volume 1, Section 1.8, Access Management	P.5 Are there any special access management commitments including driveway locations or modifications, etc? If so, include requirements in the RFP.	District Traffic Operations Engineer
PPM Volume 1, Section 1.9, Design Speed	P.6 Has the design speed been approved by the District Design Engineer and the District Traffic Operations Engineer? Include requirements in the RFP.	District Design Engineer, District Traffic Operations Engineer
PPM Volume 1, Section 1.10, Public Involvement	P.7 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	Project Manager
PPM Volume 1, Section 1.11, Context Sensitive Solutions in Design	P.8 Have context sensitive solutions been researched for this project? Include requirements in the RFP	District Design Engineer
PPM Volume 1, Section 1.12, Design Vehicle	P.9 Have design vehicle requirements been determined? Include requirements in the RFP	District Design Engineer
PPM Volume 1, Section 2.0, General	P.10 Is this a RRR project? If so provide specific RRR criteria in accordance with PPM Chapter 25.	District Design Engineer
	P.11 Does the project include an SIS or Emergency SIS Highway Intermodal Connector on the local System? If so, Specify in the RFP whether PPM SIS criteria will be used, or if the Florida Green Book will be allowed.	District Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
PPM Volume 1, Section 2.1.1, Travel Lanes and Auxiliary Lanes	P.12 Does the project have severe R/W controls which limit turning lane widths? If so, specify geometric criteria for intersections in the RFP	District Design Engineer
PPM Volume 1, Section 2.1.2, Other Lane Widths	P.13 Specify in the RFP if wider Urban Multi-Purpose lanes are needed for commercial or transit vehicles	District Design Engineer
PPM, Volume 1, Section 2.1.4. Pedestrian, Bicycle and Public Transit Facilities Urban Area 1-Mile Buffer Maps	P.14 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.	District Bicycle and Pedestrian Coordinator, District Modal Development Office Coordinators
PPM, Volume 1, Section 2.4, Roadside Slopes	P.15 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
PPM, Volume 1, Section 2.5.1, Limited Access Facilities	P.16 Does the project include limited access roadway facilities? If so, specify fencing, wall, or barrier – type, location, and height limits.	District Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
PPM, Volume 1, Section 2.10.1, Vertical Clearance Over Water	<p>P.17 Does the project include a bridge over water where the environmental classification is moderately aggressive or extremely aggressive due to chloride content? If so, can the 12 ft. vertical clearance default value be met when vertical profiles, structure depths, and driveway access requirements are accounted for? If not, include requirements in the RFP.</p> <p>P.18 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>	District Structures Design Engineer, District Structures Maintenance Engineer
PPM , Volume 1, Section 2.10.3, Regulatory Agency Requirements	P.19 Does the project include a bridge over a navigable waterway? Are the minimum vertical clearances listed in PPM, Section 2.10.1.3, Items A thru C adequate to accommodate recreational vessels? If not, include vertical clearance requirements in the RFP. Also include requirements regarding submerged footings as necessary.	District Structures Design Engineer
PPM, Volume 1, Section 2.13.1, Roundabouts	P.20 Have roundabout alternatives been evaluated for the project? Include requirements in the RFP	District Design Engineer
PPM, Volume 1, Section 2.14.4, Crossovers on Limited Access Facilities	P.21 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.	District Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
PPM, Volume 1, Section 2.16, High-Speed Urban and Suburban Arterial Highways	P.22 Does the project include high-speed urban or suburban arterial Highways? Include any special criteria or guidance needed in the RFP	District Design Engineer
PPM, Volume 1, Section 2.16.4 Medians	P.23 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	District Design Engineer
PPM, Volume 1, Section 5	P.24 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.	District Utilities Administrator and Utility Accommodation Manual
PPM, Volume 1, Section 7.2.8, Delineators, Object Markers and Express Lane Markers	P.25 Does the project require delineators? Include any special criteria or guidance needed in the RFP.	District Maintenance Engineer
PPM, Volume 1, Section 7.4.4, Controller Assemblies	P.26 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.	District Traffic Operations Engineer
PPM, Volume 1, Section 7.4.10, Mast Arm Supports	P.27 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.	District Design Engineer District Traffic Operations Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
PPM Volume 1, Section 8.6.6, Vertical Clearance	P.33 Is a vertical clearance greater than 8 feet needed to accommodate equestrians, maintenance vehicles, or emergency vehicles, or is it needed for underpasses or tunnels? If so, include the requirements in the RFP.	District Pedestrian and Bicycle Coordinator and District Design Engineer
PPM, Volume 1, Section 8.7.2, Prefabricated Steel Truss Bridges on FDOT Projects	P.34 Is a prefabricated steel truss bridge anticipated for this project? If so, provide allowable truss type, member shapes, and bridge cross-section consistent with PPM.	District Structures Design Engineer
PPM Volume 1, Section 8.8, Drop-off Hazards for Pedestrians and Bicyclists	P.35 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	District Pedestrian and Bicycle Coordinator and District Design Engineer
PPM Volume 1, Section 8.10.1, Boarding and Alighting Areas	P.36 Are boarding and alighting areas needed at bus stops? If so, include the requirements in the RFP	District Design Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
PPM, Volume 1, Section 9.2, Landscaping	<p>P.37 Does the project include landscaping? If so, specify the following requirements in the RFP as applicable:</p> <ul style="list-style-type: none"> a. Conservation of natural roadside growth (vegetation) and scenery. b. Relocation of existing vegetation. c. Selective clearing and thinning of existing vegetation. d. Natural regeneration and succession of native plants. e. Florida native plants with known provenance (original source of plants stock) to be as close to planting site as possible. f. Plant selection and placement that minimizes impacts to natural areas. g. Recycled and recyclable materials. 	District Landscape Architect, District Environmental Management Office and District Maintenance
PPM Volume 1, Section 10.2.1, Design Standards PPM, Volume 1, Section 10.3, Transportation Management Plan (TMP)	<p>P.38 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>Specify public relations activities such as media releases, television and radio spots, or handbills in the RFP</p>	District Design Engineer
PPM, Volume 1, Section 10.14.3, Coordination, Documentation and Payment	<p>P.39 Does the project require a Speed and Law Enforcement Officer? If so, provide requirement in the RFP.</p>	District Construction Office

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
PPM, Volume 1, Section 23.2, Design Exceptions and Variations Identification	P.40 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.	District Design Engineer
PPM, Volume 1, Chapter 25, Florida's Design Criteria for Resurfacing, Restoration and Rehabilitation (RRR) of Streets and Highways	P.41 Is the project a RRR project? If so, include criteria based on PPM Volume 1, Chapter 25	District Design Engineer
PPM Volume 1, Section 26.9, Bridge Feasibility Assessment/Structures Concept Plan	P.42 Specify aesthetic and wildlife connectivity requirements in the RFP, if any.	District Structures Design Engineer
PPM Volume 1, Section 27.6, Widening	P.43 Does the project include a minor bridge widening? If so, assess adequacy of existing structure and include strengthening requirements as required in the RFP.	District Drainage Engineer
PPM Volume 1, Section 31.1, Geosynthetic Design, General	P.44 Is organic material or other soft soil deposits present on the project where're removal is impractical? Provide guidance or requirements on alternative foundation designs in the RFP.	District Geotechnical Engineer
PPM Volume 1, Section 33.2, Structure Type Selection	P.45 Does project include major cross-drains? If so, specify if corrugated metal structures will be prohibited in lieu of 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 Manager, District Drainage Engineer and Project Commitments Records

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
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>	District Drainage Engineer
Drainage Manual, Section 2.4.4 Channel Bottom	D.5 Are v-bottom ditches allowed? If so, state in RFP.	District Drainage Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Drainage Manual, Section 2.5 Open Channel – Construction and Maintenance Considerations	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. D.7 Is increased maintenance access needed for future expansion of the facilities? If so, state in RFP.	District Drainage Engineer
Drainage Manual, Section 2.6.1 Open Channel – Protective Treatment	D.8 Contact maintenance to decide whether or not fencing is required and state in the RFP.	District Drainage Engineer
Drainage Manual, Section 3.3 Storm Drain – Design Frequency	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.	District Drainage Engineer
Drainage Manual, Section 3.5 Storm Drain – Hydrologic Analysis	D.10 If the system design is to use routed hydrographs, state so in the RFP and supersede Section 3.5.	District Drainage Engineer
Drainage Manual, Section 3.6.1 Storm Drain – Pipe Slopes	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.	District Drainage Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Drainage Manual, Section 3.7 Storm Drain – Protective Treatments	D.12 Is protective treatment of hydraulic openings needed for limited access areas? If so, state in RFP.	District Drainage Engineer
Drainage Manual, Section 3.7.2 Storm Drain – Manholes	D.13 If manholes must, of necessity, be placed in the wheel path, please allow in RFP and supersede this section.	District Drainage Engineer
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>	District Drainage Engineer
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>	District Drainage Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
<p>Drainage Manual, Section 3.11.1 Storm Drain – MSE Walls</p>	<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>	<p>District Drainage Engineer</p>
<p>Drainage Manual, Section 3.11.2 Storm Drain – Noise Walls</p>	<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>	<p>District Drainage Engineer</p>
<p>Drainage Manual, Section 3.11.3 Storm Drain – French Drains</p>	<p>D.22 Are resilient connectors required on certain drainage structures? If so, state in the RFP.</p>	<p>District Drainage Engineer</p>

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Drainage Manual, Section 4.3.1 Cross Drain Hydraulics – Design Frequency for Permanent Facilities	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.	District Drainage Engineer
Drainage Manual, Section 4.3.2 Cross Drain Hydraulics – Design Frequency for Temporary Facilities	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.	District Drainage Engineer
Drainage Manual, Section 4.6 Cross Drain Hydraulics – Clearances	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.	District Drainage Engineer
Drainage Manual, Section 4.8.2 Cross Drain Hydraulics – Tidal Crossings	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.	District Drainage Engineer
Drainage Manual, Section 4.9.1 Cross Drain Hydraulics – Berms for Spill-Through Abutment Bridges	D.27 Is a maintenance berm width different than 10 ft. required? If so, state requirement in the RFP.	District Drainage Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Drainage Manual, Section 4.10.4.1 Cross Drain Hydraulics – Minimum Culvert Sizes	D.28 Will future improvements affect the design of cross drains? If so, provide criteria in the RFP. D.29 Are there cross drain flows that may require more than 2 pipes? Address cross drain alternatives in the RFP?	District Drainage Engineer
Drainage Manual, Section 5.3.1.1 Stormwater Management - General	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. D.31 Are joint use or regional ponds to be considered? If so, provide criteria in the RFP. D.32 Provide direction, per the Drainage Manual, for the elevation at which the pond routing will commence.	District Drainage Engineer
Drainage Manual, Section 5.3.1.2 Stormwater Management – Watersheds with Positive Outlets	D.33 Is the project discharging to a known flooding problem? If so, decide whether or not to invoke Rule 14-86.	District Drainage Engineer

Pre-scoping Questions
For Design-Build Projects, December 1, 2016

Document Reference	Pre-scoping Question	FDOT Contact
Drainage Manual, Section 5.3.4.2 Stormwater Management – Detention and Retention Ponds	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.	District Drainage Engineer
Drainage Manual, Section 6.2 Optional Culvert Materials - Durability	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.	District Drainage Engineer