Section D: Supplemental Information for Works or Activities Within Surface Waters
(Other Than a Single-Family Project)

Instructions: This section is to be completed for projects that involve works such as dredging of channels, breakwaters, jetties, shoreline protection structures, reefs, piers, marinas and other docking facilities, bridges, causeways, and other structures or activities within surface waters that involve boating activities or that will, or have the potential to, substantively alter water flow and circulation or affect the bottom profile of open surface waters. This section is not intended for activities associated with individual single-family residential property or activities that are located entirely within wetlands.

This section must be used in conjunction with sections A and C. Activities that occur (or that may occur) on state-owned submerged lands will also require section F. Other sections may also be required, based on the scope of the proposed activities. All items required under this section are in addition to those required under other sections, as applicable.

Part I: General Project Information

Please identify all proposed activities (select all that apply):

- ☐ Pier, dock, wharf, mooring field, marina (including dry storage associated with a boat launch), boat ramp, ski course or other boating-related activity
- ☐ Breakwater, groin, jetty, shoreline stabilization structures, artificial reefs, intake or discharge structures, subaqueous utility lines, or other submerged structures
- ☐ Bridge, causeway, culverted crossing, or other traversing work or structure
- ☐ Dredging (for navigation channels, boat basins, or other purposes) or filling in surface waters
- ☐ Any other structures, works, or other in-water activities

A. Piers, Docks, Boat Ramps, Marinas, Mooring Fields, And Other Boating-Related Activities

☐ Not applicable

1. Please provide a detailed description of the proposed activities and uses of the facility; include a description of the existing activities and uses, if applicable. For example, “reconfigure existing 20-slip multifamily residential docking facility to create a 35-slip commercial marina with boat ramp, 4 temporary mooring areas and a fuel dock”:

2. Does the proposed facility, including existing structures and activities, consist *solely* of a pier, observation platform, or other over-water structure that will not accommodate the mooring of vessels or any other boating-related activities?

☐ Yes (Skip to question #8) ☐ No

3. Please describe the types and the maximum size (length and draft) of vessels expected to use or proposed to be mooring at the facility.

4. Please complete the table below. Information provided should concur with that provided on the plans/drawings:

TOTALS:	Existing	Proposed
Square Feet* over the water		
# of wet slips (permanent**)		
# of wet slips (temporary***)		
# of dry slips****		

* Total square footage of all structures (fixed or floating) over wetlands or surface waters
** Slips and other areas designed for overnight or longer-term mooring
*** Short-term mooring areas, such as accessory docks, fuel docks, etc.
**** Includes upland boat storage, such as trailer parking spaces and dry storage racks

5. Is there is at least one foot of clearance at mean low water between the top of all submerged resources (such as seagrass beds, corals, etc.) or the submerged bottom (if such resources are absent) and the deepest draft of any vessels expected to use the proposed facility, along the route(s) of ingress/egress between the proposed facility and a marked navigation channel? *If vessels will not have this clearance, the applicant may be required to provide other assurances that the project will not cause adverse secondary, cumulative and/or water quality impacts.*

☐ Yes, vessels will have at least 1' clearance at MLW ☐ No/I'm not sure

6. Please specify whether the facility will provide:

Liveaboard slips: ☐ Yes; Number: ☐ No

Fueling facilities: ☐ Yes; Number: ☐ No

Sewage pump-outs: ☐ Yes; Number: ☐ No

Other boating-related supplies or services (e.g. boat maintenance or washdown areas, fish cleaning stations, etc.): ☐ Yes; Describe: ☐ No

7. Did you answer “yes” to any item in question #6, above?

☐ Yes; please complete the items below ☐ No; (Skip to question #8)

Please provide a facility management plan to address maintenance and unexpected spills of fuels or other pollutants. This plan should include, at a minimum, the following information, as applicable to the proposed project/activities:

a. ☐ An education plan for all employees as it relates to fueling, sewage and gray water pump-out operations, waste management, and facility maintenance;
b. ☐ A spill response plan for fuel and oil that clearly identifies spill response procedures, responsible parties and emergency contact telephone numbers, and containment and cleanup equipment;
c. ☐ Locations of fuel shut-off valves and (if floating docks are utilized) assurance that if floating docks separate, fuel lines will not continue to discharge fuel into surface waters;
d. ☐ Plan for maintenance of gray water collection and return systems;
e. ☐ Plan for maintenance of garbage and fish cleaning systems to prevent disposal into wetlands or other surface waters;

8. Please describe the design and type(s) of materials that will be used to construct the proposed facility (check all that apply):

Main pier/access walkways: ☐ Piling-supported ☐ Floating ☐ Wharf/bulkhead

Finger piers (if applicable): ☐ Piling-supported ☐ Floating

Other Structures (please list and describe):

Pilings: ☐ treated wood; type (e.g. CCA, ACQ, etc.), if known:

If pilings will be of treated wood materials, will they be completely wrapped (in sleeves of impermeable PVC, plastic, or similar material) from at least one foot below the mud line to at least one foot above the mean high water line (or seasonal high water line in non-tidal waters)? ☐ Yes ☐ No

☐ concrete/steel ☐ plastic/composite ☐ other

Decking: ☐ wood ☐ plastic/composite ☐ grated ☐ floating docks/other

B. Breakwaters, Jetties, Groins, Artificial Reefs, Intake or Discharge Structures, Subaqueous Utility Lines, or Other Submerged Structures ☐ Not applicable

1. Please describe the nature and purpose of the proposed structure(s). For example, “construct a 200-foot-long, 20 foot wide offshore breakwater to protect a restored living shoreline from waves and boat wakes from the nearby channel”:

2. Please describe the design and type(s) of structures that are proposed (check all that apply):

   ☐ Breakwater (structures generally designed to attenuate wave energy and typically located entirely waterward of, and oriented parallel or oblique to the shoreline)
   ☐ Jetty or groin (structures generally designed to alter longshore currents or sediment transport, and typically extending waterward from the shore at an angle perpendicular or oblique to the shoreline)
   ☐ Seawall or revetment (hardened shoreline stabilization structure located along the shoreline)
   ☐ Artificial reef, fish attractor or similar structure
   ☐ Submerged intake, outfall, utility line, or similar structure
   ☐ Other; please describe:

3. Please provide a description of the existing erosional or depositional conditions of at the site, including amounts of natural and artificial shoreline, type(s) of vegetation, rates of erosion/deposition, and supporting documentation, such as surveys, rectified aerials, or other photographs:

4. Please provide a detailed description of all proposed activities that includes, at a minimum, the following information, as applicable:

   a. ☐ Summary of the proposed construction materials, method(s), and equipment (including types and drafts of vessels that will be used)
   b. ☐ Description of proposed turbidity control and monitoring method(s), and other best management practices
   c. ☐ Description of any proposed measures for the protection of listed species and their habitats

5. Please describe how the project will be designed and constructed in a manner that will not cause adverse effects to navigation. Include the following, as applicable:

    a. ☐ Descriptions vessels (if any) customarily using the water body in the vicinity of the project, including representative types (e.g. sail, motor, etc.), sizes (length, width, draft), and use (e.g. recreational, commercial, military, etc.)
    b. ☐ Scaled and dimensioned drawings or aerial photographs depicting the proposed structures or activities in relation to existing structures and navigation channels, or other documents that provide assurance that the project will not unreasonably infringe upon local navigation
    c. ☐ The minimum navigation clearance at mean low water for all proposed submerged structures
    d. ☐ Proposed navigational safety features (advisory signs, lighting, etc.) for structures
    e. ☐ If structures are proposed within 100 feet of any navigation channel or shipping fairway, provide an assessment of the navigational safety requirements or recommendations for the proposed project from the U.S. Coast Guard, if available

C. Bridge, Causeway, Culvert, Traversing Work, or Structure ☐ Not applicable

1. Please describe the nature and purpose of the proposed structure(s), works, or activities. *For example, "construct a 30-foot-wide, piling-supported bridge to support a 2-lane road"*:

2. Will the proposed structure(s) support or accommodate motorized vehicular traffic?
   ☐ Yes ☐ No (for pedestrian or non-motorized traffic, only)

3. Please describe the design and type(s) of structures that are proposed (check all that apply):

   ☐ free-spanning bridge (i.e. with no supporting structures in wetlands or surface waters)
   ☐ piling-supported (or trestle) bridge
   ☐ causeway
   ☐ culverted crossing
   ☐ other traversing work or structure; please describe:

   Pilings/supports:
   ☐ Not applicable
   ☐ treated wood; type (e.g. CCA, ACQ, etc.), if known:
   ☐ concrete/steel ☐ other

If pilings will be of treated wood materials, will they be completely wrapped (in sleeves of impermeable PVC, plastic, or similar material) from at least one foot below the mud line to at least one foot above the mean high water line (or seasonal high water line in non-tidal waters)?

☐ Yes ☐ No

Surface:

☐ pavement (concrete or asphalt) ☐ grated ☐ wood ☐ other

If the roadway will support motorized vehicular traffic, please provide a detailed description of how stormwater and other potential sources of runoff and pollution will be managed. Include supporting calculations, figures, or other documents, prepared by a Florida-registered professional, if applicable: ☐ Not applicable

Fill and design:

☐ Earthen fill; please describe type, specifications, and source (if known):

☐ Riprap or other armored revetment; please describe type, specifications, and source (if known) of proposed materials:

☐ Vegetated shoreline; please describe species, sizes, planting spacing (on-center) and elevations (relative to mean or ordinary high and low water), application methods, and source (if known), as applicable, of all proposed plants, sod, or seed:

Culverts:

☐ Box ☐ round/elliptical ☐ other

☐ Please describe, in detail, the number, type, and dimensions of all proposed culverts:

Other works or structures:

☐ Please describe, in detail, the purpose, design, and dimensions of all other proposed traversing work or structures:

4. Please provide a detailed description of the proposed construction activities that includes, at a minimum, the following information, as applicable:

    a. ☐ Summary of the proposed construction method(s) and equipment, including types of vessels or vehicles
    b. ☐ A detailed plan for all proposed turbidity control and monitoring method(s), at all dredging or filling locations, and at proposed spoil offloading, disposal, or dewatering locations
    c. ☐ Description of any proposed measures for the protection of listed species and their habitats, including statements of whether all work will be limited exclusively to daylight hours
    d. ☐ For causeways, culverts, and traversing works, a description of construction methods and sequencing that ensures that construction of the proposed project will not impound waters, cause flooding, or cause adverse impacts to wetlands or surface waters, including surface water flows or levels

5. Please describe how the project will be designed and constructed to avoid adverse effects to navigation. Include the following, as applicable:

    a. ☐ Descriptions of representative types of vessels (if any) customarily using the water body in the vicinity of the project, including
    b. ☐ Scaled and dimensioned drawings or aerial photographs depicting the proposed structures or activities in relation to existing structures and navigation channels, or other documents that provide assurance that the project will not unreasonably infringe upon local navigation
    c. ☐ The minimum navigational clearance beneath the proposed structure(s), at mean (or ordinary) high water
    d. ☐ The minimum navigational clearance, at mean low water for all proposed submerged structures (if applicable)
    e. ☐ If within 100 feet of a federally maintained or regulated navigation channel or shipping fairway, an assessment of the navigational safety requirements or recommendations (advisory signs, lighting, etc.) for the proposed project from the U.S. Coast Guard

D. Dredging (For Navigation Basins, Channels, Or Other Purposes) and/or Filling ☐ Not applicable

1. Please describe the nature and purpose of the proposed dredging or filling activities. For example, “dredge a 1,000 foot long, 50 foot wide navigation channel to a depth of six feet mean low water, to serve a commercial marina”:

2. Please provide a detailed description of all proposed dredging and filing activities that includes, at a minimum, the following information, as applicable:

    a. ☐ Summary of the proposed dredging and filling method(s) (e.g. clamshell, hydraulic, etc.) and equipment, including types of vessels
    b. ☐ A detailed plan for all proposed turbidity control and monitoring method(s) at all dredging or filling locations, and at proposed spoil offloading, disposal, or dewatering locations
    c. ☐ Description of any proposed measures for the protection of listed species and their habitats, including statements of whether all work will be limited exclusively to daylight hours

3. Please describe how the project will be designed and constructed to avoid adverse effects to navigation. Include the following, as applicable:

    a. ☐ Descriptions of representative types of vessels (if any) customarily using the water body in the vicinity of the project, including
    b. ☐ Scaled and dimensioned drawings or aerial photographs depicting the proposed structures or activities in relation to existing structures and navigation channels, or other documents that provide assurance that the project will not unreasonably infringe upon local navigation
    c. ☐ A description of construction methods and sequencing that ensures that the proposed project will not obstruct local navigation during construction
    d. ☐ If within 100 feet of a federally maintained or regulated navigation channel or shipping fairway, an assessment of the navigational safety requirements or recommendations (advisory signs, lighting, etc.) for the proposed project from the U.S. Coast Guard
    e. ☐ For projects that include in-water filling of submerged lands, the minimum navigation clearance at mean low water for all proposed fill areas (if applicable)

4. For dredging projects, please describe how dredged spoil material will be managed and disposed. At a minimum, this description should include:

    a. ☐ Grain size distribution and silt/clay content percentage of the material proposed to be dredged (the reviewing agency may require additional sediment testing, based upon the percentage of silt/clay sediments)
    b. ☐ Proposed dredging, pumping, and outfall design, including turbidity containment, pipe hydraulic specifications and spillway placement and hydraulic design
    c. ☐ Calculations regarding the spoil area volume requirements including bulking factors, surface overflow rate, settling times, freeboard, etc.
    d. ☐ Description of how spoil material will be ultimately disposed of, including proposed stabilization methods and post-closure storm retention/detention capacity
    e. ☐ If flocculents, coagulants, or other additives are proposed (to aid with dewatering or settling), provide the names, descriptions, Material Safety Data Sheets, proposed application rates, and ecotoxicity data and testing methods for all such additives

Part II: Hydrographic Information

The following information is necessary to determine whether the proposed activities may cause or contribute to a violation of state water quality standards. This information is required for activities or facilities that may either add pollutants to, or result in an adverse change to the patterns of flow, circulation, erosion, deposition, or littoral transport of a waterbody. Additional information may be required, such as water and sediment testing data, tidal conditions, tidal current measurements, bathymetric surveys, and simulations of hydrodynamic conditions and water quality, to fully assess the potential adverse impacts associated with your project. Please complete and provide all items as appropriate for your proposed project. Failure to do so may delay the processing of your application.

1. **Complete item 1. only if you are not providing additional information under Part II, with your application.** *Selecting options here does not relieve you of the need to submit information at a later time, if necessary to fully assess the potential adverse environmental impacts associated with your project.* I certify that, (check as appropriate for your project):

   ☐ I have been informed by the reviewing agency, during a pre-application meeting or conference, that hydrographic information, testing, and/or hydrographic analysis will not be required for my project. *Please identify the date and location of the meeting and the agency staff members who participated.*

   ☐ My project consists solely of the modification, construction, or operation of a docking facility that will accommodate the mooring of fewer than 10 vessels, including dry storage, when associated with a boat ramp or launch, **AND I have not been previously informed by the reviewing agency that hydrographic information will be required.**

   ☐ I am submitting a certification from a Florida-registered professional clearly stating that, due to the design, nature, and/or location of the proposed structures, works, or other activities, that the project does not have the potential to add pollutants to, or result in an adverse change to, the patterns of flow, circulation, erosion, deposition, or littoral transport of a waterbody; **AND I have not been previously informed by the reviewing agency that hydrographic information will be required.** *A copy of the Florida-registered professional's certification must be included with this application.*

   If none of the above apply, please provide all applicable items listed in items 2. through 7., below, based on the specific works or activities proposed for construction, alteration, maintenance, abandonment, or removal, as part of your project. In addition, a hydrographic report (including complete hydrodynamics and water quality analysis) may be necessary based upon the particulars of your project.

2. All structures or works

   a. ☐ Existing water body bathymetry and shoreline topography, if applicable
   b. ☐ Structural details for the proposed structure(s)
   c. ☐ Sediment grain size distribution and silt/clay content percentage within project area and adjacent areas
   d. ☐ For activities in tidal waters, mean high and low water elevations, range, and periodicity

3. Piers, docks, wharves, marinas, mooring fields, and other boating-related activities (refer to Applicant's Handbook, Volume I, s. 10.2.4) ☐ Not applicable

   a. ☐ Details of existing and proposed systems including all dimensions (length, width, depth), location of junctions, connections to open waters, and dead-end(s), if applicable.
   b. ☐ Site-specific characteristics of the wind field
   c. ☐ For tidal systems, provide the longest path length, phase lag, and the flow amplitude (at mid-tide) between the head or center of the system to open waters
   d. ☐ For non-tidal systems, provide the water surface elevation difference between the head (or center) and mouth of the system, and provide representative flow conditions at selected locations
   e. ☐ Estimate the time needed to reduce the concentration of a hypothetical conservative pollutant, placed at the head of the system, to ten percent (10%) of initial
   f. ☐ Verify (e.g. by using a tracer dye) the model(s) used to determine the advective/dispersive characteristics of the system. Provide a concentration gradient map depicting the size, distance of travel, and time of dispersion to the 10% concentration isopleth

4. Breakwaters, groins, jetties, seawalls, and revetments ☐ Not applicable

   a. ☐ Monthly averaged wave height, direction, and period for the project area shoreline
   b. ☐ Wind data (direction and velocity) for project area
   c. ☐ Estimate the mean annual and mean monthly littoral drift direction and volume
   d. ☐ Existing structures within the zone of influence of proposed structures
   e. ☐ Existing shoreline topography – dune crest to offshore bar break
   f. ☐ Estimated changes in littoral transport, erosion, and deposition rates and patterns due to the proposed structures

5. Bridges, causeways, and culverts ☐ Not applicable

   a. ☐ For tidal waters, the maximum, minimum, and mean flow volumes and amplitudes, at ebb and flood tide
   b. ☐ For non-tidal waters, the maximum, minimum, and mean flow volume and amplitude and mean range and periodicity of the water level variation
   c. ☐ Existing circulation patterns in the waterway at the location of the proposed structure
   d. ☐ Culvert or channel dimensions, cross-sectional area, and invert elevations
   e. ☐ Maximum design discharge, and change in flow due to change in culvert or channel cross-section, if applicable
   f. ☐ Drainage basin map and backwater calculations for area served by culvert, if applicable
   g. ☐ Existing and proposed flow cross-sections and volumes at high and low water, for specified storm (flood) events, if applicable

6. Basins, channels, residential canals, and canal networks ☐ Not applicable

   a. ☐ Maximum and mean tidal flow rates for ebb and flood along the channel
   b. ☐ Baseline bathymetry for the existing channel and adjacent areas
   c. ☐ Detailed descriptions of all areas of erosion and deposition, including existing deeps that can result in debris traps and zones of stratified water

7. Outfalls and intakes ☐ Not applicable

   a. ☐ Design maximum and normal operational flows for the outfall/intake and criteria used
   b. ☐ Dimensions and invert elevations for the proposed structures
   c. ☐ Details of the construction at the shoreline/waterline intercept

Part III: Plans

Provide plan and section view drawings that clearly show the facility, structure, or other works to be constructed, as applicable for the proposed project. Drawings must be signed and sealed by a Florida-registered professional, and must be of a scale sufficient to show the location and dimensions of all works. Use multiple sheets, if necessary. This information is **in addition to** that required under Section C (and others, if applicable) of the application.

1. All structures

   Plan-view drawings should include the following, as applicable to the proposed activity:

   a. ☐ The location and orientation of all corresponding section, profile, and detail drawings
   b. ☐ Location of the riparian upland parcel or property boundary lines, if applicable
   c. ☐ Mean high water line (MHWL), ordinary high water line (OHWL), or safe upland line (SUL)
   d. ☐ Complete dimensions (length, width, height) of all structures, works, or other activities in, on, or over wetlands or surface waters, including existing structures within 100 feet of the proposed facility
   e. ☐ Separate and label square footage of structure over wetlands, open water, and uplands
   f. ☐ Existing and proposed water depths throughout project area – isobaths or spot elevations must be clearly labeled with depths depicted in relation to mean low water (MLW), controlled water elevation (in non-tidal waters where the water is fairly controlled), mean annual low water (in other non-tidal waters), or an established vertical datum
   g. ☐ Show proposed turbidity, erosion, and sedimentation control locations

   Section- and profile-view drawings should include the following, as applicable to the proposed activity:

   a. ☐ Complete dimensions of all proposed structures, including elevation above mean high water or ordinary high water (as applicable)
   b. ☐ Water depth at mooring sites (mean low water, ordinary low water, or seasonal low water)
   c. ☐ In tidal areas – approximate tidal range

2. Piers, docks, marinas, boat ramps, and other docking or boating-related facilities ☐ Not applicable

   Plan-view drawings should include the following, as applicable to the proposed activity:

   a. ☐ Show and label width of deck planks and plank spacing, or if grated decking is to be used, provide technical specifications
   b. ☐ Show the locations of all proposed sewage pumpouts, fuel pumps, and spill cleanup equipment
   c. ☐ Show the locations of all proposed informational signage (manatee awareness, fueling safety, etc.)

d. ☐ Number each slip
e. ☐ Width of waterway and the location of the navigation channel and water depths (in relation to MLW) and distance along the most direct route(s) between the facility and the nearest marked navigation channel(s)

Section- and profile-view drawings should include the following, as applicable to the proposed activity:

a. ☐ Elevation of the structure above MHWL (tidal waters) or OHWL (non-tidal waters), and water depth at mooring sites and the bottom of the boat ramp (if applicable)
b. ☐ Structural details of all proposed pilings, anchors, moorings, buoys, and similar structures

3. Basins, channels, and other dredging and/or filling works or activities ☐ Not applicable

Plan-view drawings should include the following:

a. ☐ The location, boundaries, and water depths (in relation to MLW) of all nearby navigation channels
b. ☐ The locations and detail drawings of all proposed navigational safety markers (signs, lights, etc.) for the structure(s)
c. ☐ The location, dimensions, and engineering specifications (including BMPs) for all proposed dredged material offloading, management, and disposal sites, if applicable

Section- and profile-view drawings should include the following, as applicable to the proposed activity:

a. ☐ Representative section and/or profile views of all proposed structures that clearly show the existing and proposed depths, widths, and side slopes of all dredge and fill areas in relation to MHWL and MLWL (tidal waters), OHWL (non-tidal waters), and the submerged bottom, at representative locations

4. Groins, jetties, seawalls, revetments, and artificial reefs ☐ Not applicable

Plan-view drawings should include the following:

a. ☐ The location and water depths (in relation to MLW) of all nearby navigation channels
b. ☐ The locations and detail drawings of all proposed navigational safety markers (signs, lights, etc.) for the structure(s)

Section- and profile-view drawings should include the following, as applicable to the proposed activity:

a. ☐ Representative section and/or profile views of all proposed structures that clearly show the height, width and side slopes of each structure in relation to MHWL and MLWL (tidal waters), OHWL (non-tidal waters), and the submerged bottom, at representative locations

5. Bridges, causeways, culverted crossings, and other traversing works or structures ☐ Not applicable

Plan-view drawings should include the following, as applicable to the proposed activity:

a. ☐ Width of waterway and the location, orientation, and water depths (in relation to MLW) of the navigation channel (if applicable)
b. ☐ Dimensions and technical specifications of the road, decking, or other surface, including drainage features, if applicable

Section- and profile-view drawings should include the following, as applicable to the proposed activity:

a. ☐ Elevation of the structure above MHWL (tidal waters) or OHWL (non-tidal waters)
b. ☐ Representative sections through the culvert or channel