

**Specifications**  
**Tennessee Wildlife Resource Agency (TWRA)**  
**TWRA Modular Courtesy Docks and Fishing Piers**  
**ITB Event 32801-12685**

All work shall be completed in accordance with the following work scope and specifications below.

**A. General Specifications**

1. Courtesy docks and fishing piers shall be bid as individual modular components so that multiple configurations can be made.
2. The system shall be able to be modified to include more dock sections and/or gangways in the future.
3. The concrete bulkhead will be installed by TWRA and shall not be included as part of this proposal.
4. All permits shall be obtained by TWRA.
5. Installation shall be performed by TWRA and not included as part of this proposal.
6. Invoicing shall be done in two payment phases:
  - a. Payment Phase 1 – Materials. With invoice, Contractor shall provide a notarized document showing proof of purchase of materials for the creation of the components.
  - b. Payment Phase 2 – final payment for labor, assembly, and delivery shall occur after components have been received by TWRA.

**B. ADA Compliance**

1. See diagrams in the Appendix.
2. Shall be used for both courtesy docks and fishing piers gangways and floating docks.
3. Shall be Grade 6061 aluminum.
4. The pier shall be ADA compliant, and the following link provides a checklist of requirements: <https://adachecklist.org/doc/rec/fishing/fishing.pdf>
5. Handrails shall be at least 25 percent no more than 34 inches above the ground or deck.
6. Guards shall be higher than 34 inches if the higher portion is no less than 42 inches high and balusters or ornamental patterns do not allow a 4-inch diameter sphere to pass through up to a height of 34 inches and do not allow an 8-inch diameter sphere to pass through between 34 inches and 42 inches above the ground.
7. The 34-inch maximum high railings, guards, or handrails shall be dispersed throughout the fishing pier or platform.
8. The 34-inch maximum high railings, guards, or handrails shall have a curb or barrier extending 2 inches minimum above the surface of the pier or platform.
9. The ground or deck shall extend at least 12 inches beyond the inside face of the railing at a clear width of at least 30 inches and clear height of at least 9 inches.

**C. Fastening System**

1. Shall be used for both courtesy docks and fishing piers gangways and floating docks.

2. See Appendix for diagram.
3. Shall be TimberStrong Hidden Fastening System (or equal).
4. Shall provide attachment for the composite decking to the aluminum joist dock structure. The fastener shall be mechanically attached to each corresponding deck board, with embedment into the deck board, a minimum of 1-inch and located directly over each joist.
5. The spacing between deck boards shall be 3/8 inches.
6. The attachment at each joist shall be with one #10 stainless steel, self-tapping screw, placed through the black PVC TimberStrong fastener (or equal) and into the corresponding joist. The screw length embedment shall be a minimum ½" past the aluminum joist surface. No screws or any other type of fasteners shall be used in the deck surface as the attachment method for the decking.

#### **D. Courtesy Docks**

##### **1. Courtesy Dock Gangway - Three (3) Items**

- a. See images in the Appendix for a general diagram.
- b. The gangway shall be supplied with supplemental flotation at the bottom of the gangway.
- c. Supplemental flotation shall be provided at the bottom of the gangway to ensure no additional load is put on the floating dock system.
- d. Gangways shall be supplied and shall measure 5-feet by 40-feet.
- e. The gangway and all components shall be Grade 6061 aluminum.
- f. Decking shall be aluminum.
- g. The handrail shall be located at 42-inches
- h. An intermediate handrail shall be located at a height of 34-inches.
- i. A Toe-Kick shall be included.
- j. A hinge shall be located at the top and bottom of the gangway.
- k. A hinged mounting angle shall be provided for the top mounting of the gangway.

##### **2. Courtesy Dock Floating Dock - Three (3) Items**

- a. 8-foot, 6-inch by 30-foot floating docks shall be supplied.
- b. The dock shall be 50 series, Grade 6061 aluminum.
- c. Decking shall be composite.
- d. 16-inch plastic encapsulated flotation shall be provided (dock shall have a freeboard dimension of approximately 20-inches).
- e. A hinge shall be located at the gangway connection point.
- f. Rub rail shall be located along the front and two sides of the dock.
- g. Corner bumpers shall be located on the two outside corners
- h. Eight (8) adjustable cleats shall be provided.

##### **3. Courtesy Dock Delivery**

- a. 90 calendar days from receipt of Purchase Order
- b. Contractor shall ship the pier FOB Destination.
- c. Contractor shall call three (3) business days before shipping so that arrangements can be made.
- d. Point of Contact: Jay McClellan at 615-351-6611
- e. Delivery shall be to three (3) locations
  - 1. Herb Parsons Lake, 140 Herb Parsons Way, Collierville, TN 38017
    - a. 1 Gangway
    - b. 1 Floating Dock
  - 2. Brown's Creek Lake, 1735 Brown's Lake Rd, Lexington, TN 38351
    - a. 1 Gangway
    - b. 1 Floating Dock
  - 3. Lake Halford, 405 Boyd's Landing Rd, Huntingdon, TN 38344
    - a. 1 Gangway
    - b. 1 Floating Dock

## **E. Fishing Piers**

### **1. Fishing Pier Gangway - Three (3) Items**

- a. See images in the Appendix for a general diagram.
- b. The gangway shall be supplied with supplemental flotation at the bottom of the gangway.
- c. Supplemental flotation shall be provided at the bottom of the gangway to ensure no additional load is put on the floating dock system.
- d. The gangways shall measure 5-feet by 40-feet.
- e. Decking shall be aluminum.
- f. All components shall be Grade 6061 aluminum
- g. The handrail shall be located at 42-inches
- h. An intermediate handrail shall be located at a height of 34-inches.
- i. A Toe-Kick shall be included.
- j. A hinge shall be located at the top and bottom of the gangway.
- k. A hinged mounting angle shall be provided for the top mounting of the gangway.

### **2. Fishing Pier Floating Docks – Eight (8) Items**

- a. 8-foot, 6-inch by 25-foot floating docks shall be supplied.
- b. The dock shall be 50 series, Grade 6061 aluminum.
- c. Decking shall be composite.
- d. 16-inch plastic encapsulated flotation shall be provided (dock will have a freeboard dimension of approximately 20-inches).
- e. A hinge shall be located at the gangway connection point.
- f. Rub rail shall be located along the front and two sides of the dock.
- g. Corner bumpers shall be located on the two outside corners

h. Adjustable cleats shall be provided, three (3) per dock section.

3. Fishing Pier Tension Cable System – Six (6) Items

a. The tension cable system shall be engineered to provide tension for lateral loads associated with current and wind loads. See Appendix for diagram. System shall contain the following components.

1. Eye bolt anchor
2. Epoxy for anchor attachment
3. Turnbuckle
4. Two (2) Shackle
5. Galvanized or stainless-steel cable (sized per site specific loads)
6. Attachment bracket for mounting to floating dock or gangway
  - a. Mechanical attachment to groove inside of aluminum dock frame
  - b. Bolted to top of track in dock frame
  - c. Adjustable along length of dock frame

4. Fishing Piers Delivery

- a. 90 calendar days from receipt of Purchase Order
- b. Contractor shall ship the pier FOB Destination.
- c. Contractor shall call three (3) business days before shipping so that arrangements can be made.
- d. Point of Contact: Jay McClellan at 615-351-6611
- e. Delivery shall be to three (3) locations
  1. Herb Parsons Lake, 140 Herb Parsons Way, Collierville, TN 38017
    - a. 1 Gangway
    - b. 3 Floating Dock
    - c. 2 Cable Systems
  2. Brown's Creek Lake, 1735 Brown's Lake Rd, Lexington, TN 38351
    - a. 1 Gangway
    - b. 2 Floating Dock
    - c. 2 Cable Systems
  3. Lake Halford, 405 Boyd's Landing Rd, Huntingdon, TN 38344
    - a. 1 Gangway
    - b. 3 Floating Dock
    - c. 2 Cable Systems

F. Warranties

1. Minimum of one (1) year standard manufacturer's warranty on components.

# APPENDIX

## ADA Compliance Diagrams





