GENERAL NOTES:

U.S. COAST GUARD NOTIFICATION: Notify the local office of the U.S. Coast Guard at least 30 days prior to beginning of construction of the Fender System.

POLYMERIC PILES: Provide polymeric piles in accordance with Specification Section 471. Installation shall be in accordance with manufacturer’s recommendations. All piles shall be plumb.

PLASTIC LUMBER AND STRUCTURAL COMPOSITE LUMBER WALES: Provide only Plastic lumber and Structural Composite lumber Wales in accordance with Specification Section 973. Wales shall be continuous and spliced only at locations shown on the plans.

PLASTIC LUMBER DECKING FOR CATWALKS: Provide Plastic Lumber decking for catwalks when called for in the Plans in accordance with Specification Section 973.

Install Plastic Lumber Decking according to manufacturer’s recommendations using stainless steel #10 x 3” (minimum) deck screws.

FIBERGLASS OPEN GRATING FOR CATWALKS: Provide Fiberglass Open Grating for catwalks when called for in the Plans. Fiberglass Open Grating shall be a heavy duty design suitable for exterior installations. Maximum gap opening on the walkway surface shall be 1/2”. Design live loads and deflections shall be a 50 psi uniformly distributed load with a maximum deflection of $\frac{3}{8}$ or L/120 at the center of a simple span and a concentrated load of 250 pounds with a maximum deflection of $\frac{1}{8}$ at the center of a simple span. Color of Fiberglass Open Grating shall be gray or black.

Install Fiberglass Open Grating according to manufacturer’s recommendations using stainless steel hardware, screws, bolts, nuts and washers. Attach Fiberglass Open Grating to Wales and Deck Supports at a 2’-0” maximum spacing so as to resist pedestrian live loads and uplift forces from wind, buoyancy and wave action.

CLEARANCE GAUGE AND LIGHT: Clearance Gauge to be furnished by the FDOT and erected by the Contractor. Clearance Gauge width and numeral height is dependant on visibility distance. The required visibility distance shall be determined by the United States Coast Guard District Commander. Provide and install Clearance Gauge Light in accordance with Specification Section 510 and Index No. 21220.

NAVIGATION LIGHTS: Provide and install Navigation Lights in accordance with Specification Section 510, Index No. 21220 and/or project specific details. Provide and maintain Temporary Navigation Lights during construction until permanent Navigation Lights are operational.

BOLTS, THREADED BARS, NUTS, SCREWS AND WASHERS: Furnish stainless steel Bolts in accordance with ASTM F593 Type 316. Furnish stainless steel Threaded Bars in accordance with ASTM A193 Grade BBM. Furnish stainless steel Nuts in accordance with ASTM F594 Type 305. Furnish stainless steel Screws and Washers compatible with Bolts, Threaded Rods and Nuts under design criteria. Torque Nuts on 1” diameter Bolts and Threaded Bars to 150 lb-ft. Keep threads on Bolts, Threaded Bars and Nuts free from dirt, coarse grime and sand to prevent galling and seizing during tightening.

SPICE PLATES: Furnish Splice Plates in accordance with ASTM A240 Type 316.
DESCRIPTION:

CROSS REFERENCES:
For Stations and Offsets of referenced Control Points A, B, C and D, Dimension "L" and Clear Channel Width see Fender System Table of Variables in Structures Plans.
For Navigation Light Details see Design Standards Index 21220.

LAYOUT GEOMETRY
**NOTES:**
1. Plastic Lumber and Composite Lumber Dimensions shown are based on Nominal Lumber dimensions and may vary depending on Actual Lumber Dimension.
2. Pile configuration shown is for example only.
3. Three (3) piles per cluster maximum.
4. Two (2) pile per cluster minimum at 16' Panel Joints.
5. Two (2) pile cluster shown, one (1) pile or three (3) pile cluster similar.

**REFERENCES:**
For Sections A-A and B-B see Sheet 4.

For View F-F see Sheet 5.

**CROSS REFERENCES:**
- **PARTIAL PLAN VIEW (TYPICAL FLARE)**
  (FLARE AT CONTROL POINT B SHOWN, CONTROL POINTS A, C & D SIMILAR)
  (HANDRAIL NOT SHOWN FOR CLARITY)
- **EXPANDED PARTIAL ELEVATION VIEW**
- **FENDER SYSTEM DETAILS**

**NOTES:**
- 1. Plastic Lumber and Composite Lumber Dimensions shown are based on Nominal Lumber dimensions and may vary depending on Actual Lumber Dimension.
- 2. Pile configuration shown is for example only.
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- 5. Two (2) pile cluster shown, one (1) pile or three (3) pile cluster similar.

**REFERENCES:**
- **PARTIAL PLAN VIEW (TYPICAL FLARE)**
  (FLARE AT CONTROL POINT B SHOWN, CONTROL POINTS A, C & D SIMILAR)
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- **EXPANDED PARTIAL ELEVATION VIEW**
- **FENDER SYSTEM DETAILS**

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- 1. Plastic Lumber and Composite Lumber Dimensions shown are based on Nominal Lumber dimensions and may vary depending on Actual Lumber Dimension.
- 2. Pile configuration shown is for example only.
- 3. Three (3) piles per cluster maximum.
- 4. Two (2) pile per cluster minimum at 16' Panel Joints.
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**REFERENCES:**
- **PARTIAL PLAN VIEW (TYPICAL FLARE)**
  (FLARE AT CONTROL POINT B SHOWN, CONTROL POINTS A, C & D SIMILAR)
  (HANDRAIL NOT SHOWN FOR CLARITY)
- **EXPANDED PARTIAL ELEVATION VIEW**
- **FENDER SYSTEM DETAILS**
**MINIMUM CLEARANCE**

**VIEW J-J**
(WALES, PILES AND BRACING
NOT SHOWN FOR CLARITY)

**VIEW G-G**
(WALES, DECKING AND HANDRAIL
NOT SHOWN FOR CLARITY)

**CLEARANCE GAUGE DETAILS**

**SECTION K-K**

**CROSS REFERENCES:**
For Structural Composite and Plastic Lumber Bill of Materials Quantities and Fender System Table of Variables see Structures Plans.

For Location of View G-G see Sheet 5.
**STRUCTURAL COMPOSITE LUMBER BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE (NOMINAL)</th>
<th>DIMENSIONS</th>
<th>BOARD FT. PER EACH</th>
<th>NO. REQD.</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>266.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot;</td>
<td>266.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot;</td>
<td>133.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot;</td>
<td>133.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A5</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot;</td>
<td>133.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A6</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot;</td>
<td>133.3</td>
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</table>

**PLASTIC LUMBER BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE (NOMINAL)</th>
<th>DIMENSIONS</th>
<th>BOARD FT. PER EACH</th>
<th>NO. REQD.</th>
<th>QUANTITY</th>
</tr>
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<tbody>
<tr>
<td>B</td>
<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
<td>8' (STRAIGHT)</td>
<td>3.6</td>
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<tr>
<td>C</td>
<td>2&quot; X 6&quot; PLASTIC LUMBER</td>
<td>10'-0&quot; (STRAIGHT) (Trim &amp; Miter Ends as required)</td>
<td>16.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>4&quot; X 6&quot; PLASTIC LUMBER</td>
<td>4'-0&quot; (STRAIGHT)</td>
<td>8.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>2&quot; X 12&quot; PLASTIC LUMBER</td>
<td>2'-0&quot; (STRAIGHT) (Miter as required)</td>
<td>5.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F1</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
<td>10'-0&quot; (STRAIGHT)</td>
<td>80.0</td>
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<tr>
<td>F2</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
<td>15'-11&quot;</td>
<td>79.6</td>
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<td></td>
</tr>
<tr>
<td>F3</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
<td>15'-0&quot;</td>
<td>78.8</td>
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<tr>
<td>F4</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
<td>15'-0&quot;</td>
<td>78.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F5</td>
<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
<td>15'-10&quot;</td>
<td>79.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G1</td>
<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
<td>2'-3&quot; (STRAIGHT)</td>
<td>12.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G2</td>
<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
<td>2'-0&quot; (STRAIGHT)</td>
<td>10.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M1</td>
<td>2&quot; X 6&quot; PLASTIC LUMBER</td>
<td>PILE CUTOFF ELEV MINUS NLW OR NLW ELEV PLUS 5'-4&quot; (STRAIGHT)</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H2</td>
<td>2&quot; X 6&quot; PLASTIC LUMBER</td>
<td>1'-0&quot; (STRAIGHT)</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* All Plastic Lumber and Composite Lumber Dimensions and Quantities show on Nominal Lumber Dimensions and may vary depending on Actual Lumber Dimension.

** Provide Fiberglass Open Grating in lieu of 2" X 12" Plastic Lumber when called for in the Plans. Mounting hardware shall be Stainless Steel, install per Manufacturer’s recommendations. See Structures Plans for Notes and Details.