GENERAL NOTES:

Work this Standard with Index Nos. 21600, 21620 and 21630.

STRUCTURAL STEEL:

Steel Plates and Rolled Sections shall be ASTM A 709 Grade 36.
Pipe piles shall be ASTM A 522 Grade 2, Fy = 35 ksi.

BOLTS, LAG SCREWS AND THREADED BOLT STOCK:

Furnish high strength bolts in accordance with ASTM A 578. Furnish Threaded Studs in accordance with ASTM A 325. Furnish lag Screws in accordance with ASTM A 325. Furnish steel washers and nuts compatible with Bolts, Threaded Studs and Lag Screws.

TIMBER AND LOGGING:

Material shall be No. 1 Southern Yellow Pine.

BACKFALL AND TIE-UPS:

Timber Piles:

- Minimum Embedment into compacted backfill into soil having a blow count greater than 6 (N60).
- Ultimate Capacity greater than 18 tons.
- Stakes are not allowed on any timber piles.

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- Ultimate Capacity greater than 18 tons.
- Stakes are not allowed on any timber piles.

Slabs admisible between backwall and cap.

EXPANSION BEARINGS:

- Install the PTFE (Teflon) layer and stainless steel plates prior to installation.
- Do not use bearings that have a severely damaged or unpolished PTFE layer.
- Clean PTFE of all grit and grime prior to installation.
- Clean stainless steel plates of all grit and grime prior to installation and finish to a smooth buffed surface.

DISTRIBUTING BEAMS:

- Longitudinal stops restraining the distributing beams may be lengthened or shortened to center the distributing beam bearing on the cap beam.
- The longitudinal stops are to bear on the distributing beam end frame.

EXPANSION JOINT SETTINGS:

- Install the expansion joint considering the total continuous bridge length, location of fixed bearings and ambient temperature at the time of installation, assuming a 2" expansion joint opening at 70 degrees F.

STORAGE FACILITY:

- Contact FDOT Statewide Aluminum Shop 21600 Crane Rd. Ocoee, FL 407-977-6200.

For shipping weights and dimensions of Temporary Bridge elements.

SHIPPING WEIGHTS AND DIMENSIONS:

<table>
<thead>
<tr>
<th>Decking Sizes</th>
<th>Type</th>
<th>Length</th>
<th>Width</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decking Curb</td>
<td>6&quot;</td>
<td>6'-9&quot;</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Decking Curb</td>
<td>6'</td>
<td>6'-9&quot;</td>
<td>1420</td>
<td></td>
</tr>
<tr>
<td>Decking Curb</td>
<td>12'</td>
<td>6'-9&quot;</td>
<td>2200</td>
<td></td>
</tr>
<tr>
<td>Decking Curb</td>
<td>24'</td>
<td>6'-9&quot;</td>
<td>2650</td>
<td></td>
</tr>
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<td>10'</td>
<td>5'-3&quot;</td>
<td>1050</td>
<td></td>
</tr>
<tr>
<td>NonCurb</td>
<td>15'</td>
<td>5'-3&quot;</td>
<td>1650</td>
<td></td>
</tr>
<tr>
<td>NonCurb</td>
<td>20'</td>
<td>5'-3&quot;</td>
<td>2250</td>
<td></td>
</tr>
</tbody>
</table>

Shipping weights and dimensions of other bridge components can be referenced in "Acrow Panel Bridging Series 350 Technical Handbook".

INSTRUCTIONS TO DESIGNER:

Establish temporary bridge length to accommodate project geometric needs, environmental permits, drainage requirements, etc. using the following span length and arrangement criteria. Details present in this Standard are for a Double Single configuration and incorporating the Double Wide Light Transom as shown in the "Acrow Panel Bridging Technical Handbook".

Variation in span lengths in increments of 10’.
30’ minimum span length.
60’ maximum span length.
Per continuous span the ratio of adjacent span lengths shall not exceed 6:1 to prevent the shorter span from lifting with the bearings under live load.
Limit continuous length of bridge to 360’.

Specify Distributing beams for all span lengths. Details presented assume use of continuous spans.

Design the pile cap connection to pile assuming the true reaction with a minimum of 3” eccentricity. Design of this connection details the responsibility of the Engineer of Record.

Select the pile type considering the driving capacity requirements of the production piles on the permanent bridge. Free standing height, water levels, and soil conditions.

Refer to "Acrow Panel Bridging Technical Handbook" for temporary bridge dimensions and capacities.

These Standards are based on the FDOT current inventory of temporary bridge elements, which are manufactured in accordance with Acrow Series 350 Double Wide design.

The Approach span and Ramp span are to be simple spans, each 5”-0” in length, to allow live load with no backwall and grade beam support.

Do not place the temporary bridge on a vertical curve. A constant grade is acceptable.

Refer to "Acrow Panel Bridging Technical Handbook" for maximum grade and elevation tolerance of constant grade (Bent to Bent and Cross-Slope) for final cap elevations.

The temporary bridge is to have a zero cross-slope. Provide asphalt slab transitions to a zero cross slope outside the limits of the temporary bridge.

Design the foundations according to the 144370 (LRFD) Bridge Design Specifications.

For Substructure Design use the following:

- Dead Load Factor = 1.25
- Live Load Factor = 1.50

SERVICE LEVEL: LOADS:

- Calculate reactions using superstructure dead load and weight = 1.25 Kips/ft
- Include a concentrated dead load = 250 Lbs per truss plate at abutments. This load accounts for 1 end post and 1 bearing per truss plate.
- Calculate wind force on superstructure using basic wind force of 0.45 Kips/ft.
- Add the above loading using wind pressures in Table 38.2.2 of 144370 (LRFD) Bridge Design Specifications.

Example:

- For wind speed of 50
  - W = 0.45 (0.025/0.075) = 0.39 Kips/ft

Plans for temporary bridge shall, as a minimum, cover the following:

1. General Notes Sheet.
2. Simple span bearing details if noncontinuous spans are selected.
3. Grade change details at the superstructure.
4. Plan and elevation sheets with span lengths, abutment, alignment, grade and bar locations.
5. Foundation layout sheet including pile spacing and bent spotting.
6. Pile data table showing pile type, size, cut-off elevations, capacity & estimated lengths.
ELEVATION VIEW
(TIMBER PILES SHOWN, STEEL H PILES AND STEEL PIPE PILES SIMILAR)
TYPICAL SECTION THRU DETOUR BRIDGE AT INTERIOR BENTS (TYPICAL SECTION AT END BENTS SIMILAR WITHOUT DISTRIBUTING BEAMS) (TIMBER PILE SHOWN, STEEL H PILES AND STEEL PIPE PILE SIMILAR)
DETAILS FOR FDOT SUPPLIED FIXED BEARINGS

DETAILS FOR FDOT SUPPLIED EXPANSION BEARINGS