GENERAL NOTES:

This Index is only applicable to the current FDOT inventory of temporary bridge components which are manufactured in accordance with Acrow Series 300, Double Wide design.

Work this Index with Index 102-210, 102-220, 102-230 and 102-240.

STRUCTURAL STEEL:

Steel Plates and Rolled Sections shall be ASTM A36 Grade 36. Pipe piles shall be ASTM A252 Grade 2, FY = 35 ksi.

BOLTS, LAG SCREWS AND THREADED BOLT STOCK:

Furnish high strength bolts in accordance with ASTM F1554 Grade A325 Type 1. Furnish Threaded Screw Stock in accordance with ASTM A320. Furnish Lag Screws in accordance with ASTM A307.

Furnish steel washers and nuts compatible with Bolts, Threaded Stock and Lag Screws.

TIMBER AND LAGGING:

Timber and Lagging shall be No. 1 Southern Yellow Pine.

BACKWALL BENT PILES:

Timber Piles:
10' Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (N>6).
Ultimate Capacity greater than 18 tons.
Splices are not allowed on any timber piles.

H-Piles:
12' Minimum Embedment into compacted backfill or into soil having a blow count greater than 6 (N>6).
Ultimate Capacity greater than 18 tons.
Shims admissible between backwall pile and cap.
Test piles are not required for backwall piles.

EXPANSION BEARINGS:

Inspect the PTFE (Teflon) layer and stainless steel plate prior to installation.
Do not use bearings that have a severely damaged or unbonded PTFE layer.
Clean PTFE of all grit and grime prior to installation.
Clean Stainless steel plate 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 be 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, assume a 1°F expansion joint opening at 70 degrees F.

STORAGE FACILITY:

Contact

FDOT Statewide Aluminum Shop
2590 Camp Rd.
Oviedo, Fl.
407-274-2727

For shipping weights and dimensions of Temporary Bridge elements.

SHIPPING WEIGHTS AND DIMENSIONS:

Decking Sizes:

Type | Length | Width | Weight (lbs.)
--- | --- | --- | ---
Curb | 9 | 6'-9" | 800
Curb | 10 | 6'-9" | 1420
Curb | 15 | 6'-9" | 2200
Curb | 20 | 6'-9" | 2800
NomCurb | 5 | 5'-3" | 650
NomCurb | 10 | 5'-3" | 1000
NomCurb | 15 | 5'-3" | 1600
NomCurb | 20 | 5'-3" | 2100

Shipment weights and dimensions of other bridge components can be referenced in “Acrow Panel Bridging, Series 300, Technical Handbook”.

TRAFFIC RAILING NOTES:

See Index 536-001 for component details, geometric layouts and associated notes not fully detailed herein.

CONCRETE: Concrete for Guardrail shall be Type I with a minimum 3000 psi compressive strength.

THREE-BEAM PANEL: Steel Thrie-Beam Elements shall meet the requirements of AASHTO M180. Plate Washers shall be in accordance with ASTM A36 or ASTM A709 Grade 36.

BOLTS, NUTS AND WASHERS: Bolts, nuts and round washers shall be in accordance with AASHTO M180, Type II (Zinc coated).

BOLTS, LAG SCREWS AND THREADED BOLT STOCK:

Furnish high strength bolts in accordance with ASTM F3125 Grade A325 Type 1. Furnish Threaded Screw Stock in accordance with ASTM A320. Furnish Lag Screws in accordance with ASTM A307.

Furnish steel washers and nuts compatible with Bolts, Threaded Stock and Lag Screws.

TIMBER AND LAGGING:

Timber and Lagging shall be No. 1 Southern Yellow Pine.
ELEVATION VIEW
(TIMBER PILES SHOWN, STEEL H PILES AND STEEL PIPE PILES SIMILAR)
(Thrie-Beam Panel not shown for clarity, See Index 102-240)
Timber Bent shown for illustration purposes. See Plans for actual Bent Designs, including Pile sizes and spacing, bent cap and bracing requirements.

AB22 Distributing Beams with AB23 Distributing Beam End Frame (Typ.)
AB306 Transom DW (Typ.)
AB13 Swaybrace Standard (Typ.)
AB505C Distributing Beam Stop (Typ.)

Contractor supplied foundation components, including Bearing Saddles, Keepers & Shims.

FDOT supplied Temporary Bridge Components including Fixed & Expansion Bearings, Guardrail and associated components as indicated.

AB51 Panel Pins (Top & Bottom Typ.)
AB3 Bracing Frame (Typ.)
Steel Grid Deck & Curb

AB7 & AB8 Bearings (Expansion Bearing shown, Fixed Bearing similar) (Typ.)

Thrie-Beam Panel
See Index 102-240.

1'-6" 12'-9" 12'-0" 24'-9" Clear Roadway

12'-0" 12'-0"

1'-6"

12'-9"

AB2 Raker Bar
AB1 Truss Panels (Typ.)
AB3 Bracing Frame (Typ.)
AB505C Distributing Beam Stop (Typ.)

Offset Block

Steel Grid Deck & Curb

TYPICAL SECTION THRU DETOUR BRIDGE AT INTERIOR BENTS (TYPICAL SECTION AT END BENTS SIMILAR WITHOUT DISTRIBUTING BEAMS)
(TIMBER PILES SHOWN, STEEL H PILES AND STEEL PIPE PILES SIMILAR)
**Temporary Detour Bridge**

**General Notes and Details**

**FY 2020-21 Standard Plans**

**Temporary Detour Bridge**

**View B-B**

**Elevation View of Distributing Beam**

*(Fixed Bearing shown, Expansion Bearing similar)*

*(Timber Intermediate Bent shown, Steel Intermediate Bents similar)*

Note:

- Distributing Beam may be shifted from Distributing Beam as shown. Intermediate Bent may be shifted from Intermediate Bent an additional 3" to allow for pile placement tolerances.

**View B-B**

**End View A-A Detail**

**Detour Bridge Superstructure (Truss and Transom members shown dotted)**

**Note:**

- Bearing may be shifted from Bearing as shown. Intermediate Bent may be shifted from Intermediate Bent an additional 3" to allow for pile placement tolerances.