# **ORIGINATION FORM** -

## Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

### **Contact Information:**

Date: February 16, 2022 Originator: Joshua Turley Phone: (850) 414-4475 Email: joshua.turley@dot.state.fl.us

### Summary of the changes:

Sheet 1: Changed the bridge design type in General Notes.

Sheet 2: Removed double bearing note

Sheet 3: Corrected the raker beam connection; Removed double bearing notes.

Sheet 4: Removed double bearing notes and details.

Sheet 5: Removed double bearing notes and details.

Sheet 6: Added slight gap between beam stops and beam.

## Commentary / Background:

Sheet1: Current Acrow implementations are only Triple-Single.

Sheet2-6: Currently FDOT only has single bearings in inventory.

Sheet 6: Beam stops do not have to be exactly flush.

## Other Affected Offices / Documents: (Provide name of person contacted)

- Yes No
- Other Standard Plans –
- $\square$ **FDOT Design Manual** –
- Basis of Estimates Manual –
- $\square$ Standard Specifications –
- Approved Product List -
- Construction –
- Maintenance –

## Origination Package Includes: (Submit package to Rick Jenkins)

Yes N/A

- $\mathbf{\nabla}$ Redline Mark-ups
  - Revised or Proposed Standard Plan Instruction (SPI)
- Other Support Documents

## Implementation:

🔲 Design Bulletin (Interim)
🔲 DCE Memo

Program Mgmt. Bulletin

FY-Standard Plans (Next Release)

 Contact the Roadway Design Office for assistance in completing this form Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

# **Standard Plans:**

Index Number: 102-200 Sheet Number (s): 1-6 of 7 Index Title: TEMPORARY ACROW 300 SERIES DETOUR BRIDGE GENERAL NOTES AND DETAILS

### 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. Triple Single STRUCTURAL STEEL: Steel Plates and Rolled Sections shall be ASTM A709 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 F3125 Grade A325 Type 1. Furnish Threaded Stock in accordance with ASTM A36. 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 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" expansion joint opening at 70 degrees F.

STORAGE FACILITY: Contact FDOT Statewide Aluminum Shop 2590 Camp Rd. Oviedo, Fl. 407-278-2727 For shipping weights and dimensions of Temporary Bridge elements.

SHIPPING WEIGHTS AND DIMENSIONS:

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

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

#### TRAFFIC RAILING NOTES:

Decking Sizes:

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

CONCRETE: Concrete for Transition Blocks shall be Class II (Bridge Deck).

THRIE-BEAM PANEL: Steel Thrie-Beam Elements shall meet the requirements of AASHTO M180, Type II (Zinc coated).

BOLTS, NUTS AND WASHERS: Bolts, nuts and round washers shall be in accordance with AASHTO M180. Plate Washers shall be in accordance with ASTM A36 or ASTM A709 Grade 36. Do not drill Temporary Bridge components to attach Guardrail. Guardrail Bolts shall be placed between Truss members as shown in Index 102-240.

COATINGS: All Nuts, Bolts, Anchors, Washers and Backer Plates shall be hot-dip galvanized in accordance with the Specifications.

WOOD BLOCKS: All wood blocks, including required wedge shaped blocks shall be Pressure Treated Lumber in accordance with Specifications Section 955. Bolt holes in blocks to be centered  $(\pm 1/4'')$ .

#### PAYMENT:

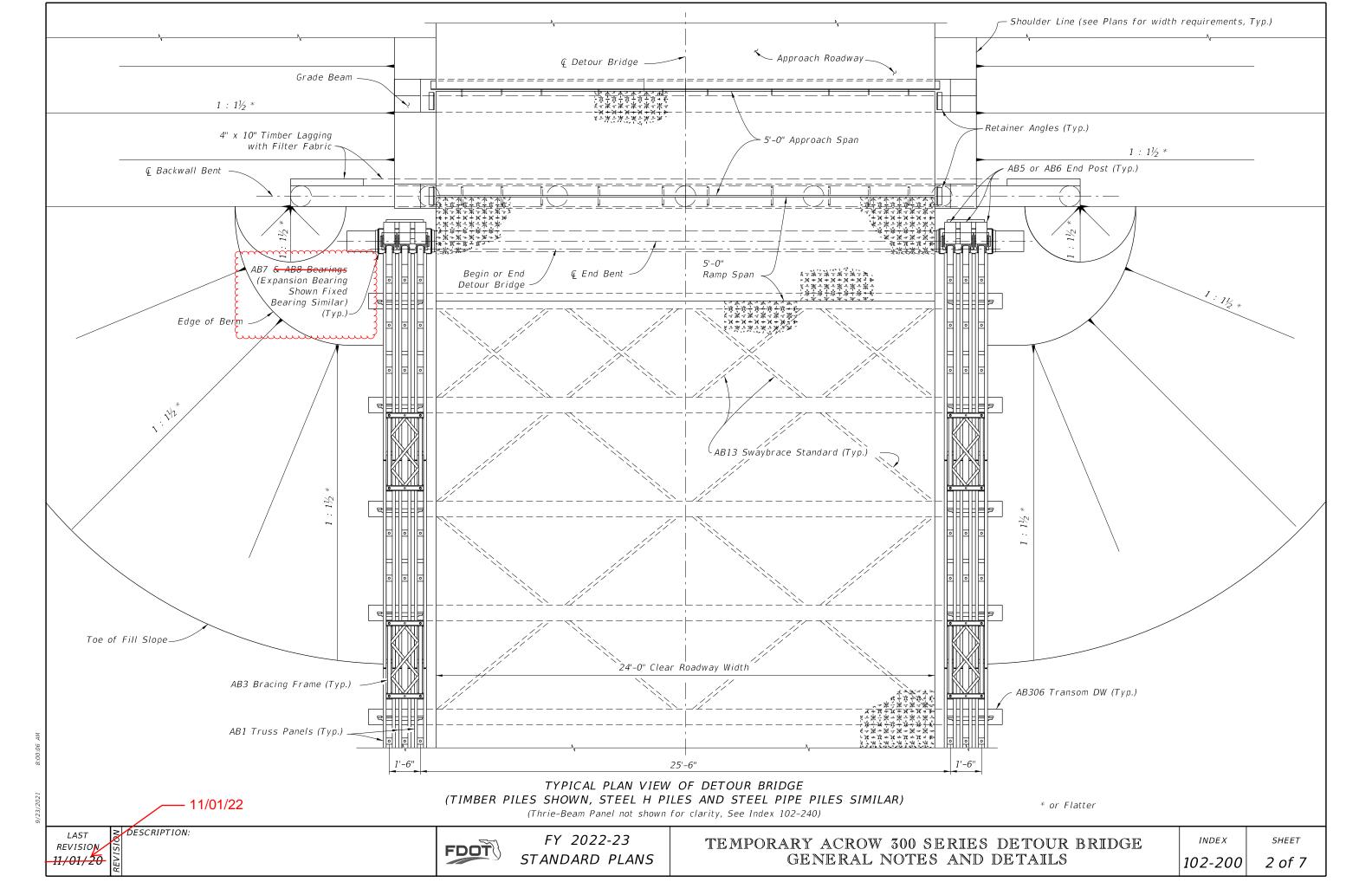
Temporary Detour Bridge is to be paid for under Contract Unit Price for Special Detour. If a temporary bridge system other than that shown herein is used, the Contractor is responsible for renting or purchasing their own system. Payment for Temporary Guardrail work and Transition Block will be made under Pay Item Temporary Guardrail, LF.

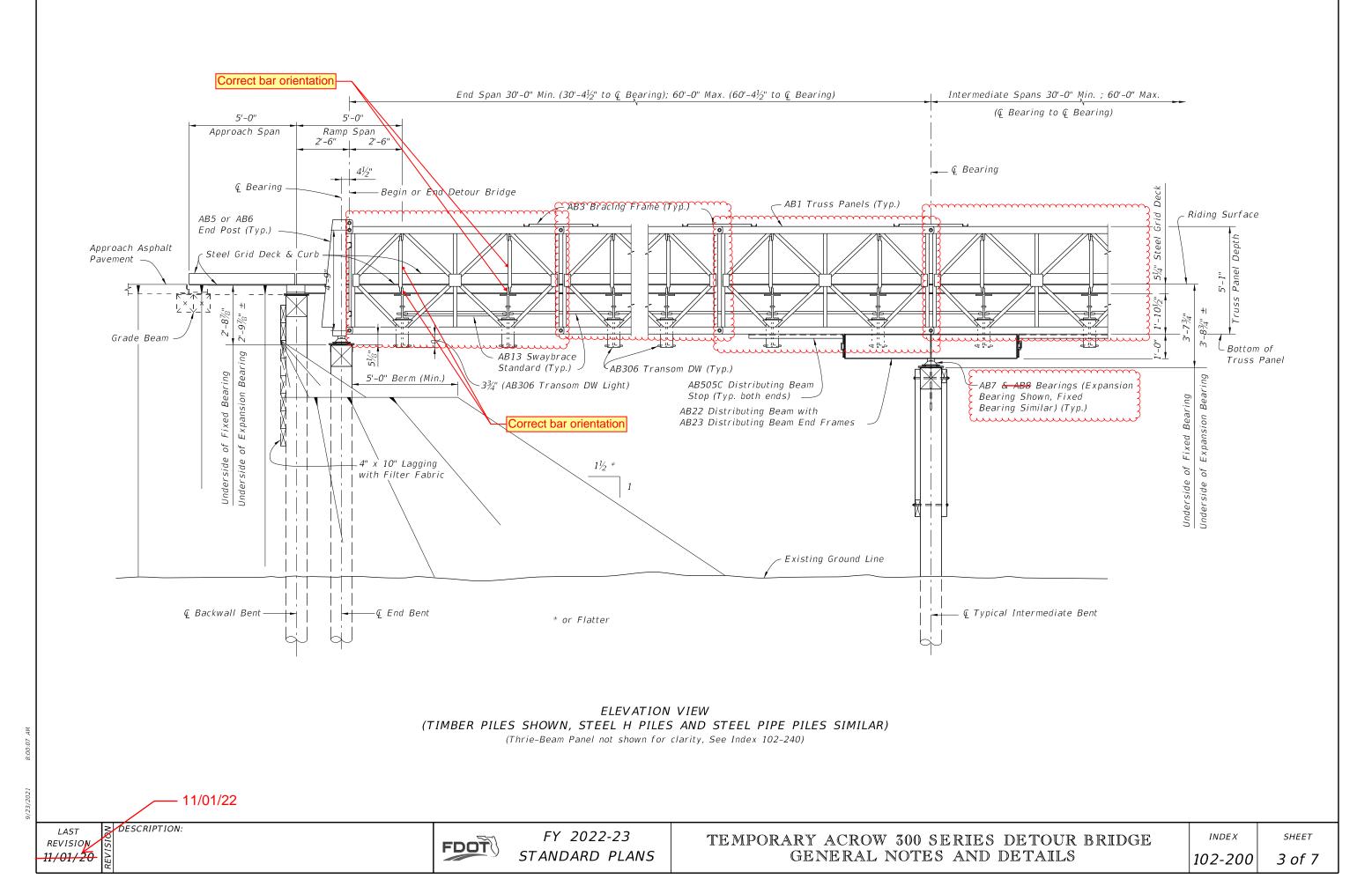
Furnish and install Bridge Thrie-Beam Panels and all associated hardware as shown. Payment will be made with the Temporary Detour Bridge under the Pay Item Special Detour, LS. Turn over Bridge Thrie-Beam Panels and all associated hardware to the Department with the Detour Bridge components per Specifications Section 102-6.

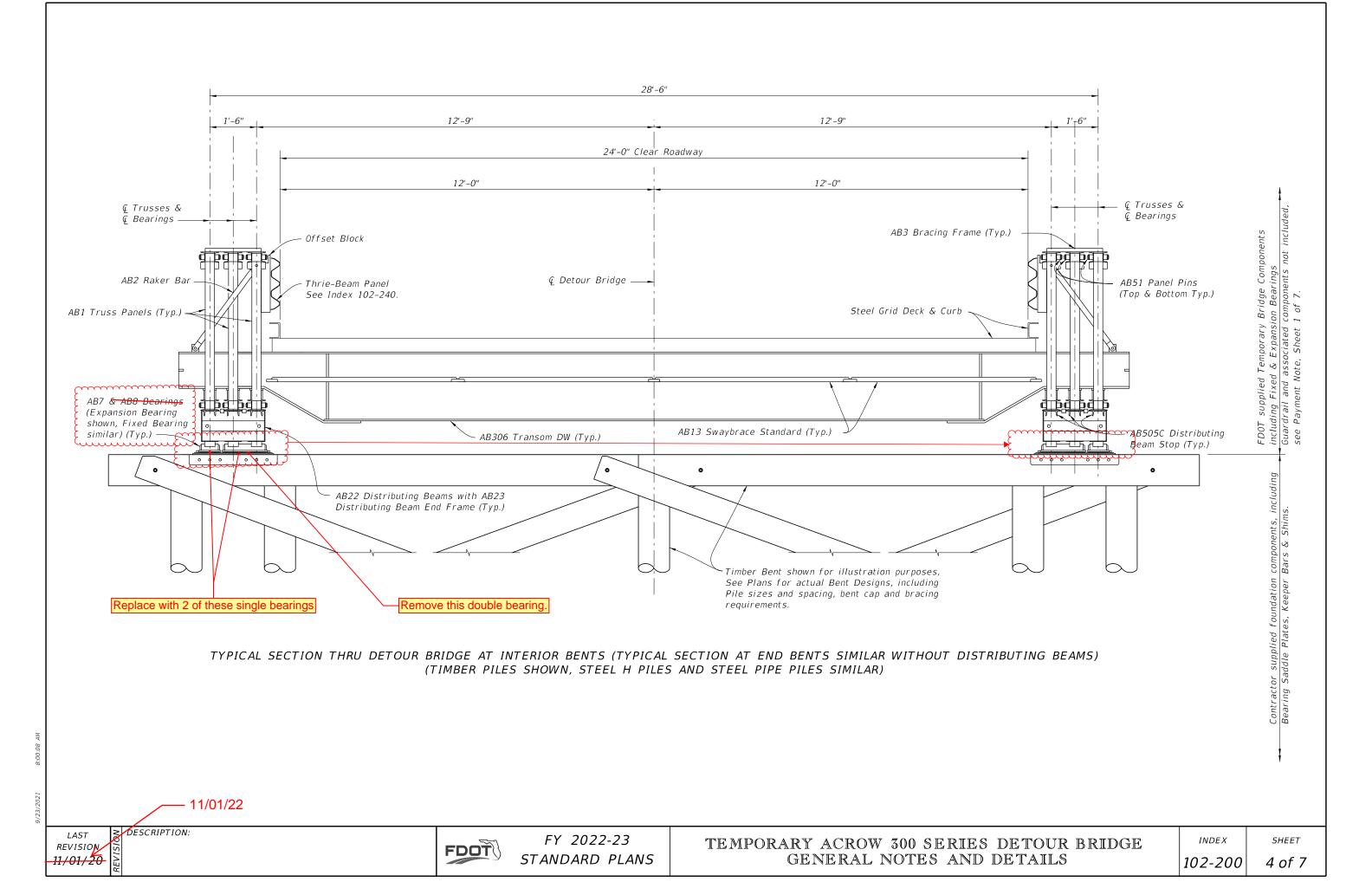
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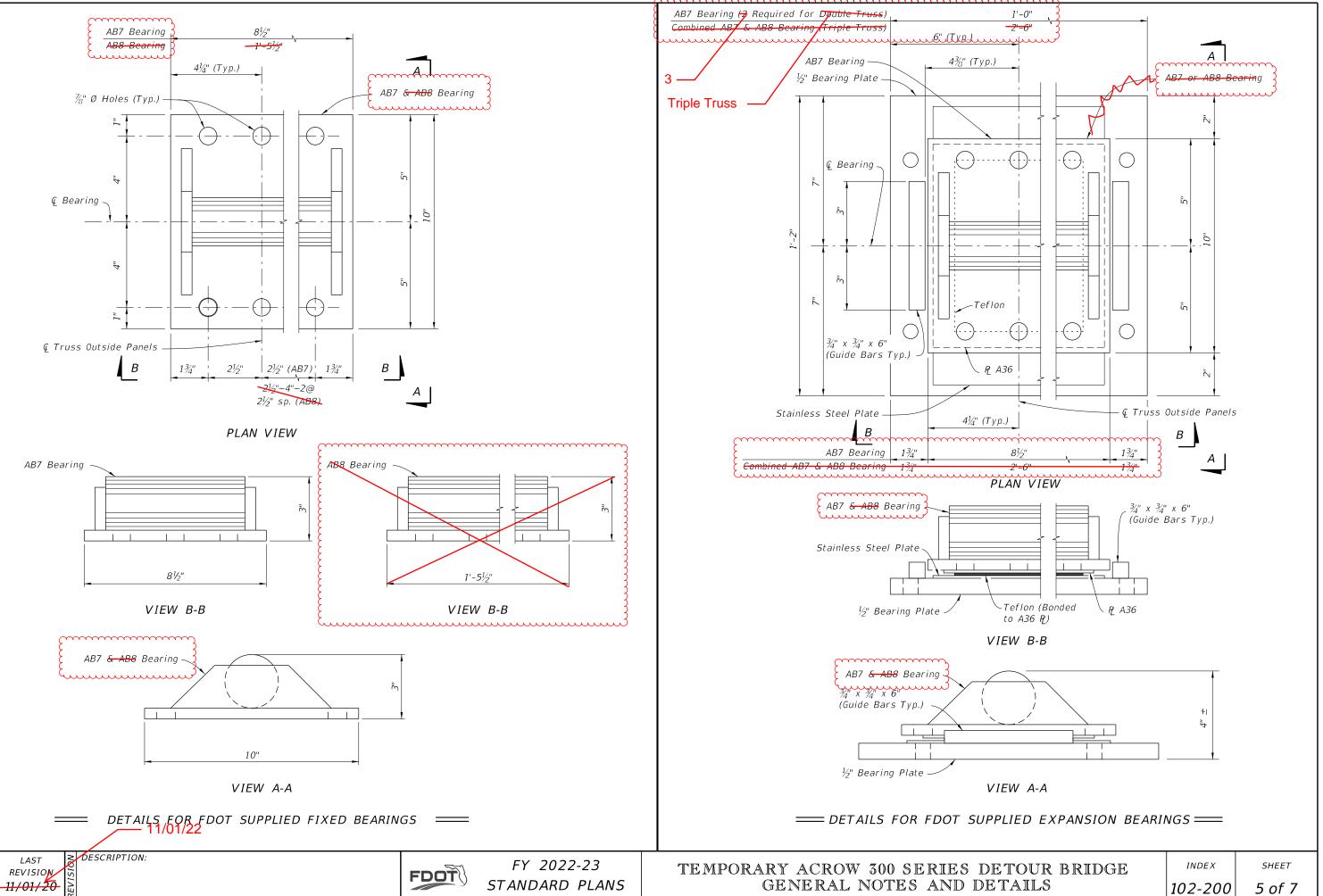


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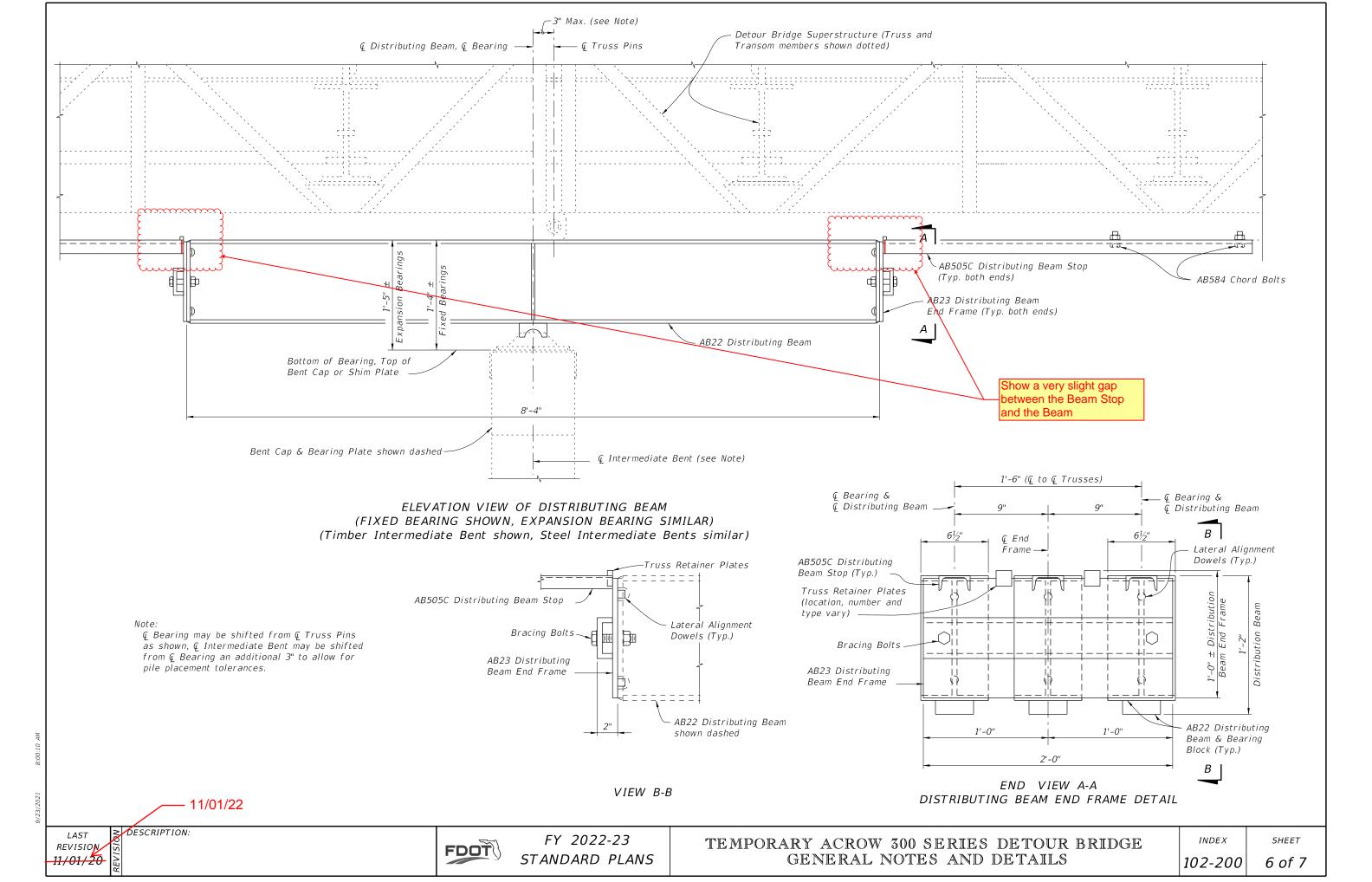








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### GENERAL NOTES:

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#### STRUCTURAL STEEL:

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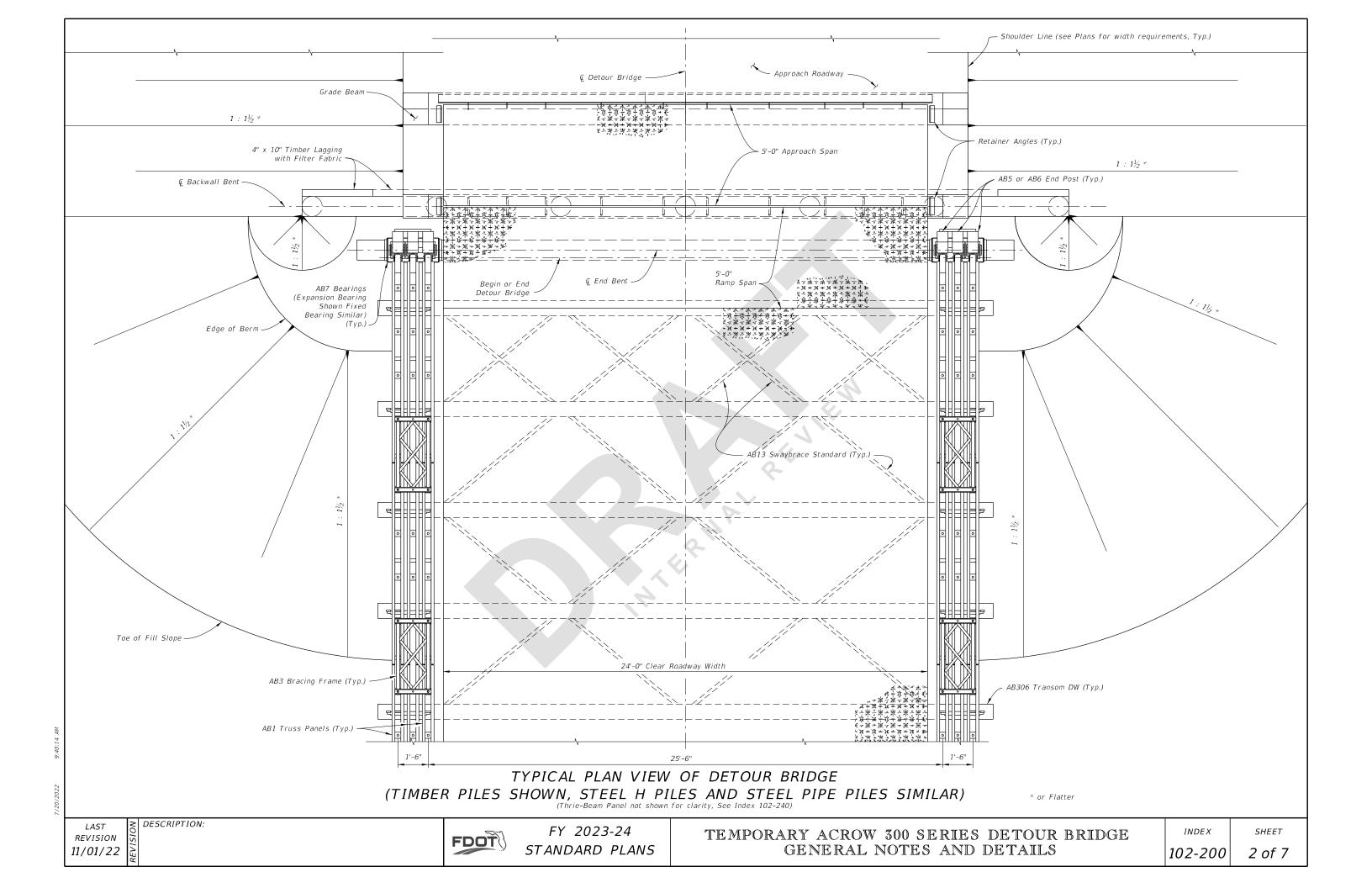
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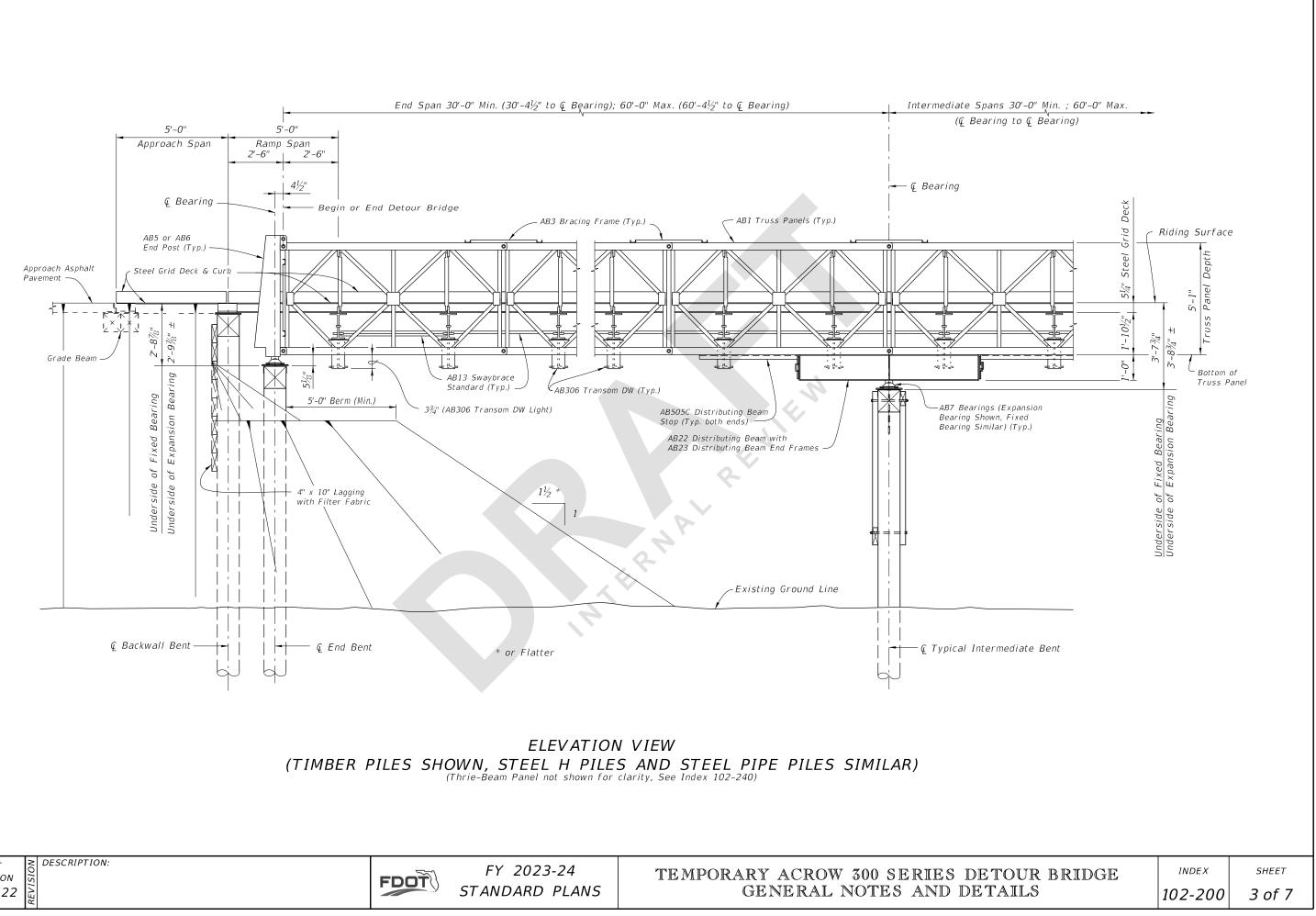
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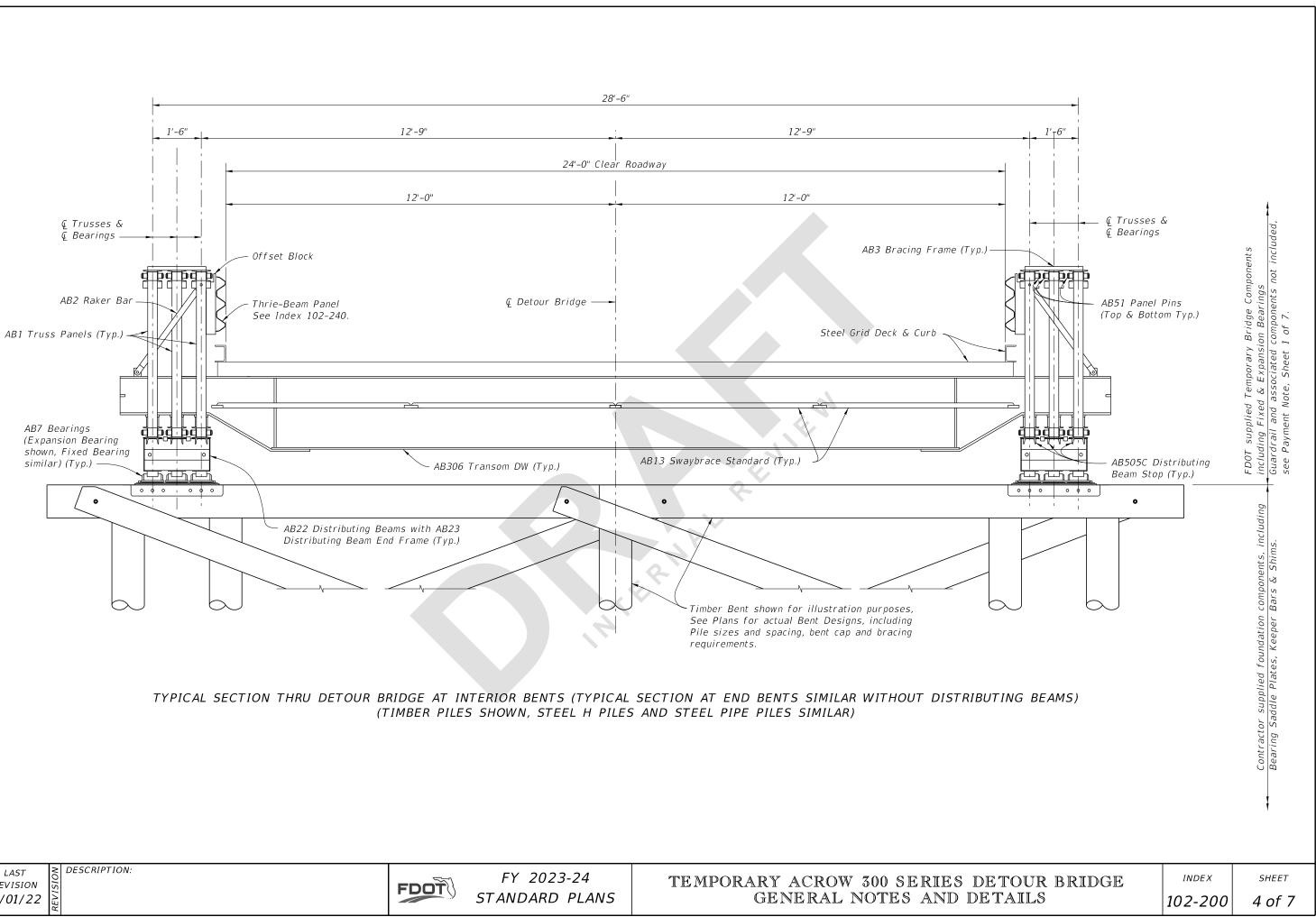
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