## GENERAL NOTES:

This Index is only applicable to the current FDOT inventory of temporary bridge components which are manufactured in accordance with Acrow Series 700XS three Lane 24',36', and 42' widths. Asphalt Overlay is required on the Bridge deck except when deck and curb panels with an epoxy aggregate non-skid driving surface are used, see Sheet 2 for details.

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

STRUCTURAL STEEL:
Steel Plates shall be ASTM A709 Grade 36.

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.

DISTRIBUTION BEAMS:
Distribution beam keeper channels restraining the distribution beams may be lengthened or shortened to center the distributing beam bearing on the cap beam.
The ends of the keeper channels 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 2" expansion joint opening at 70 degrees F, (Expansion joint depends on span/bridge length and configuration).

STORAGE FACILITY:
Contact
FDOT Statewide Aluminum Shop
2590 Camp Rd.
Oviedo, Fl.
407-278-2727
For shipping weights and dimensions of Temporary Bridge elements.
Contractor to coordinate with Storage Facility and Acrow to obtain required parts list.
Shipping weights and dimensions of other bridge components can be referenced in "Acrow Panel Bridging, Series 700XS, Technical Handbook".

APPROACH TRAFFIC RAILING NOTES:
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).

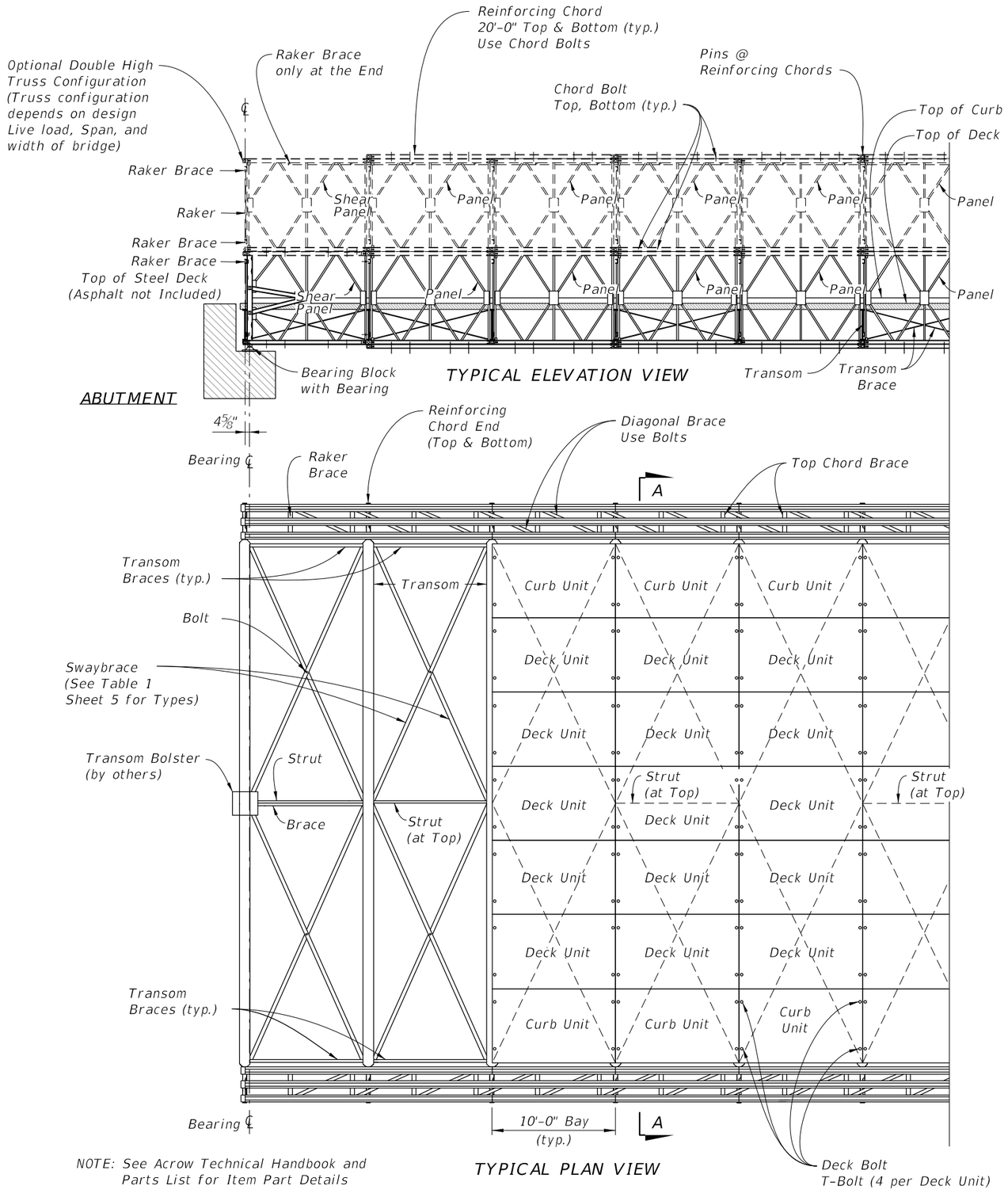
BOLTS, NUTS AND WASHERS:
Bolts, nuts and round washers shall be in accordance with AASHTO M180. Plate Washers shall be in accordance with ASTM A36 or ASTM A709 Grade 36. Do not drill Temporary Bridge components to attach Guardrail. Guardrail Bolts shall be placed between Truss members as shown in Index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

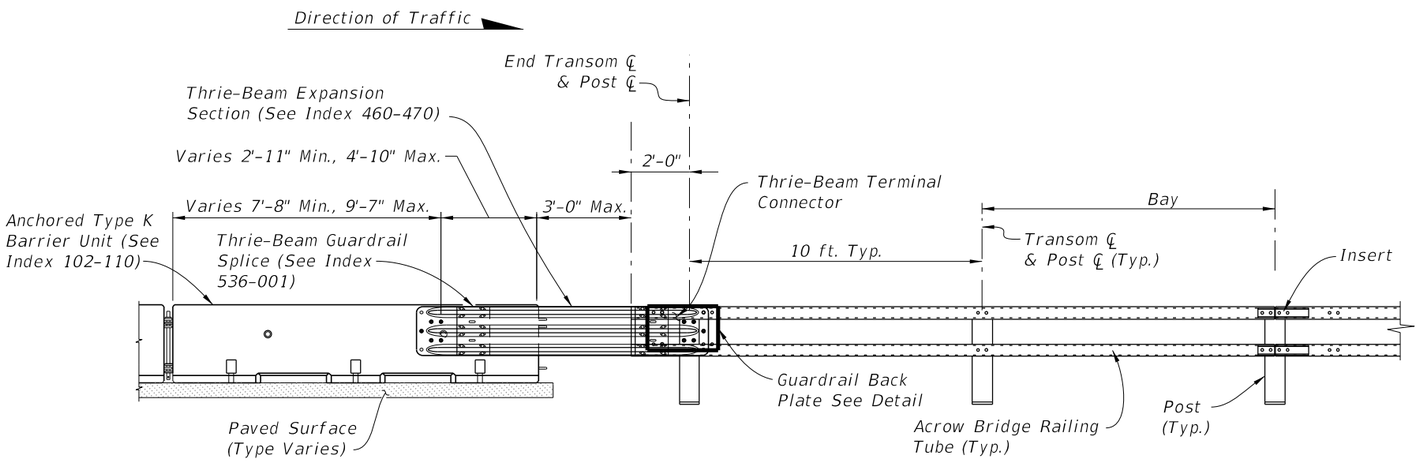
Furnish and install Bridge Thrie-Beam Panels and all associated hardware as shown. Payment will be made with the Temporary Detour Bridge under the Pay Item Special Detour, LS. Turn over Bridge Thrie-Beam Panels and all associated hardware to the Department with the Detour Bridge components per Specifications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



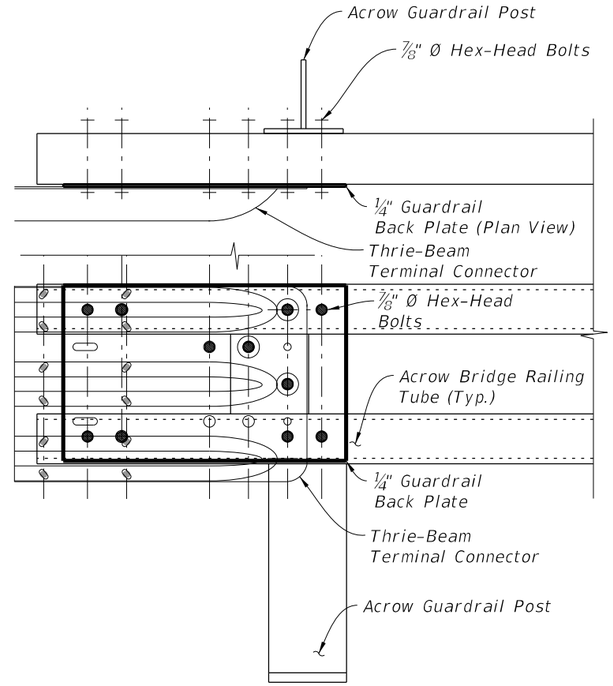

NOTE: See Acrow Technical Handbook and Parts List for Item Part Details

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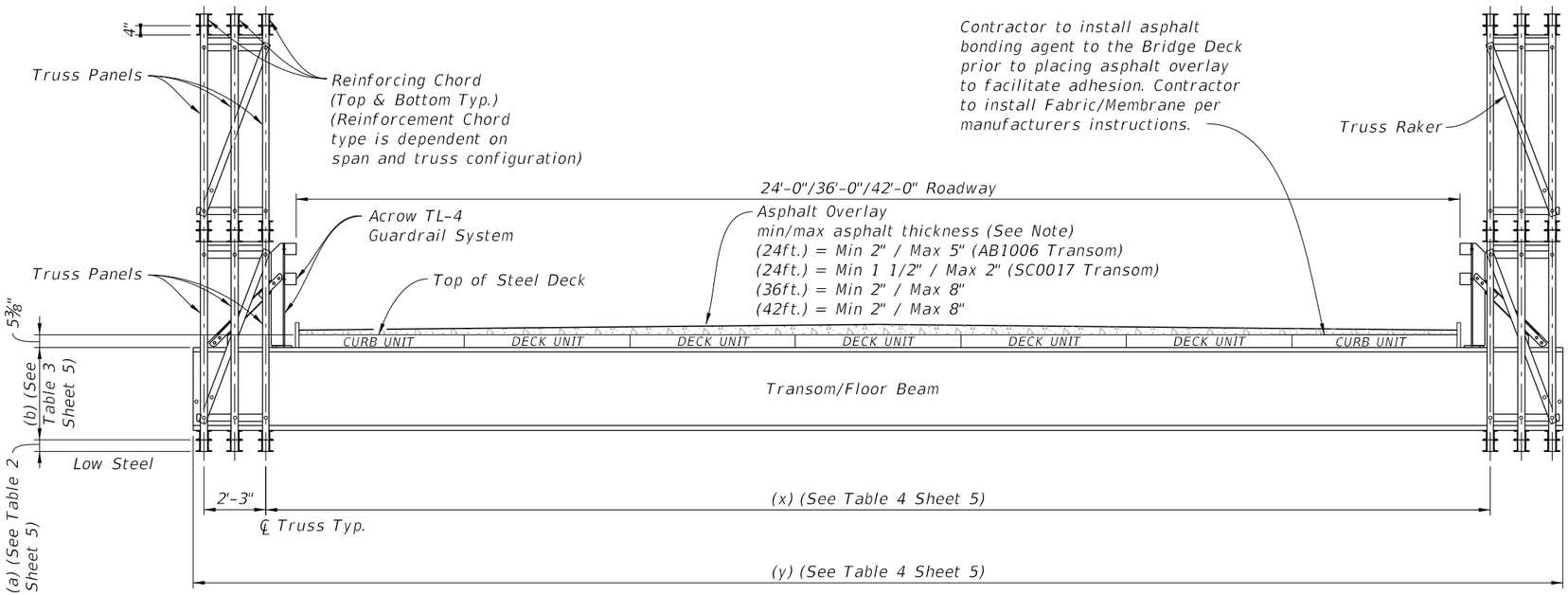
| LAST REVISION | REVISION | DESCRIPTION: | FDOT | FY 2027-28 STANDARD PLANS | TEMPORARY ACROW 700XS SERIES DETOUR BRIDGE GENERAL NOTES AND DETAILS | INDEX | SHEET |
|---|---|---|---|---|---|---|---|
| 11/01/25 | | | | | | 102-201 | 1 of 5 |



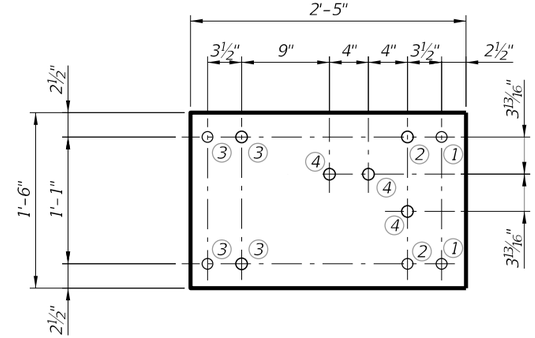

THRIE BEAM TO BRIDGE GUARDRAIL TRANSITION




GUARDRAIL END TRANSITION DETAIL




SECTION A-A
(Double High Truss shown, Single High Truss Similar)




¼" GUARDRAIL BACK PLATE DETAIL

NOTES: See Acrow Technical Handbook and parts list for item number details.
Asphalt overlay thickness shown is for when using plain steel deck.

CONNECTION NOTES:
At the numbered locations, align bolt holes and thru-bolt the following:

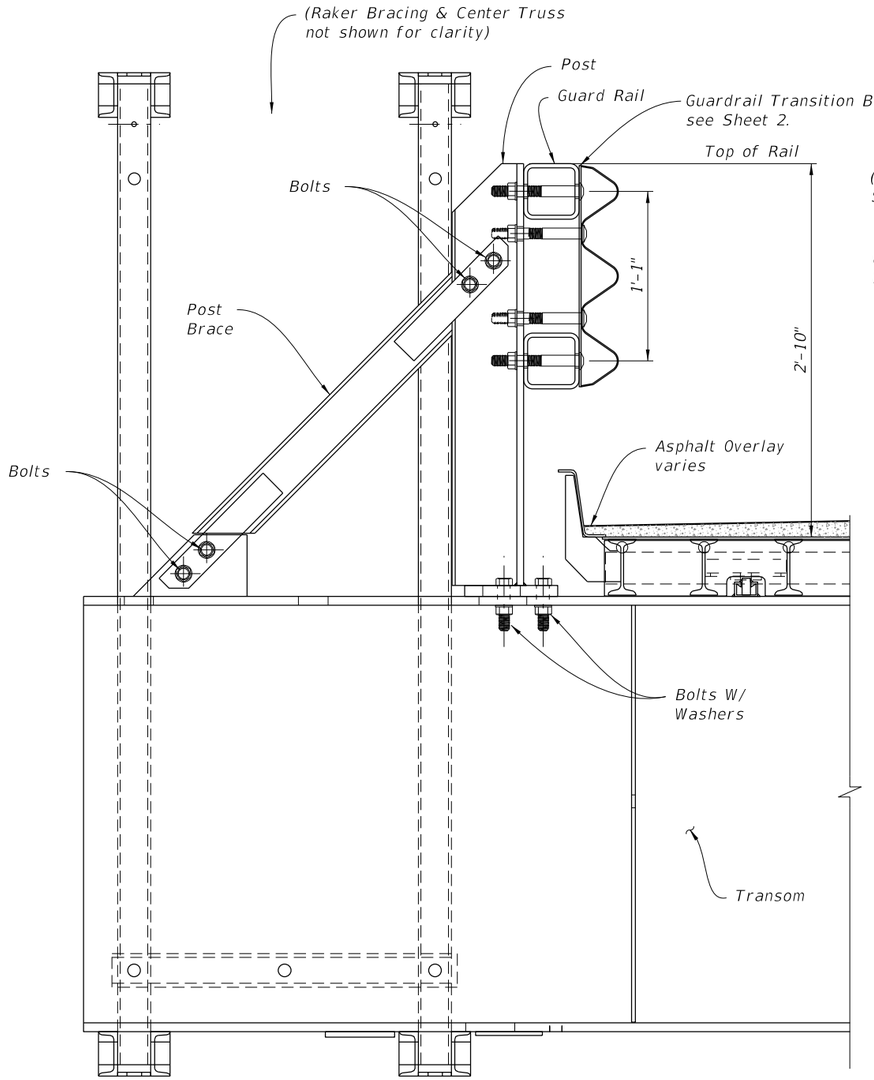
① Post – Tube – Plate
② Post – Tube – Plate – Thrie-Beam
③ Tube – Plate
④ Plate – Thrie-Beam

Back Plate is ASTM A36.
Use plate washers for all Thrie-Beam to plate connections.
Use ⅞" Ø Hex Head Bolts.
Drill, ream, or slot holes in Thrie-Beam connector as required for fit up.

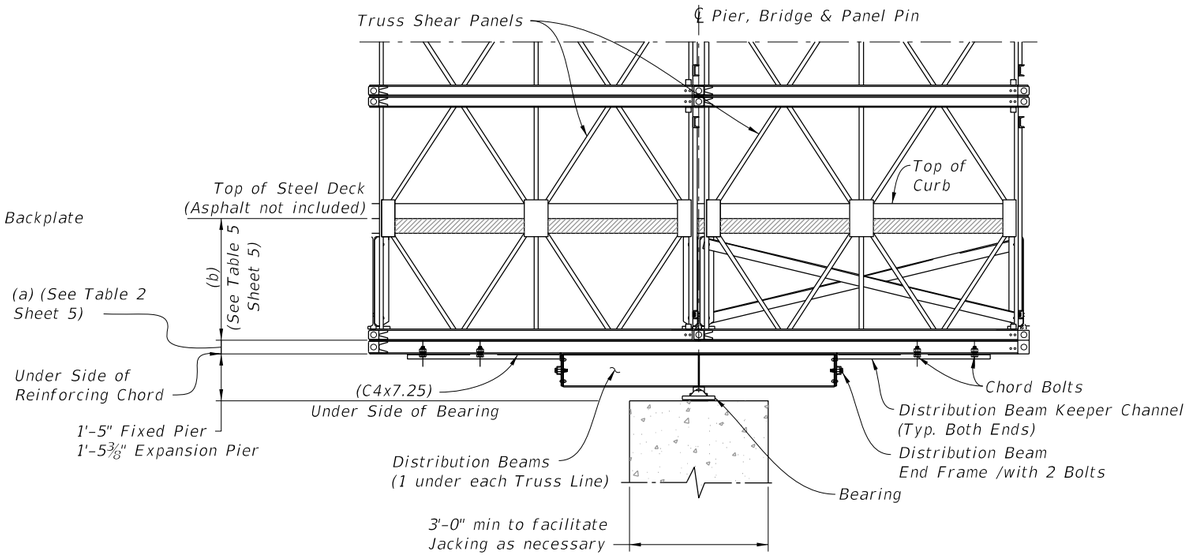
BEAM AND GUARDRAIL DETAILS

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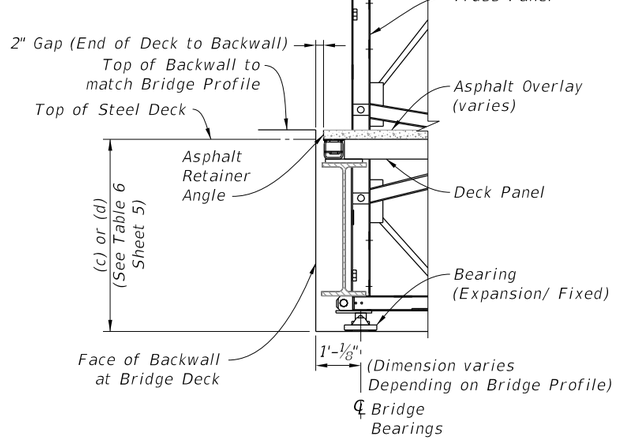
| LAST REVISION | REVISION | DESCRIPTION: | | | | |
|---|---|---|---|---|---|---|
| 11/01/25 | | | FDOT FY 2027-28 STANDARD PLANS | TEMPORARY ACROW 700XS SERIES DETOUR BRIDGE GENERAL NOTES AND DETAILS | INDEX 102-201 | SHEET 2 of 5 |




TYPICAL RAILING POST CONNECTION DETAIL

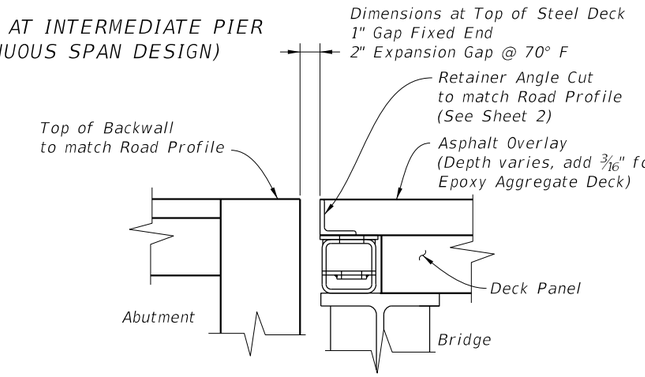



TYPICAL DETAIL AT INTERMEDIATE PIER
(FOR CONTINUOUS SPAN DESIGN)

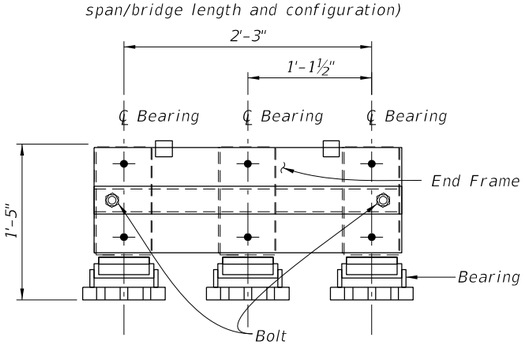



TYPICAL DETAIL AT ABUTMENTS
(Note: Expansion joint depends on
span/bridge length and configuration)

NOTE: See Acrow Technical Handbook and
Parts List for Item Number Details.

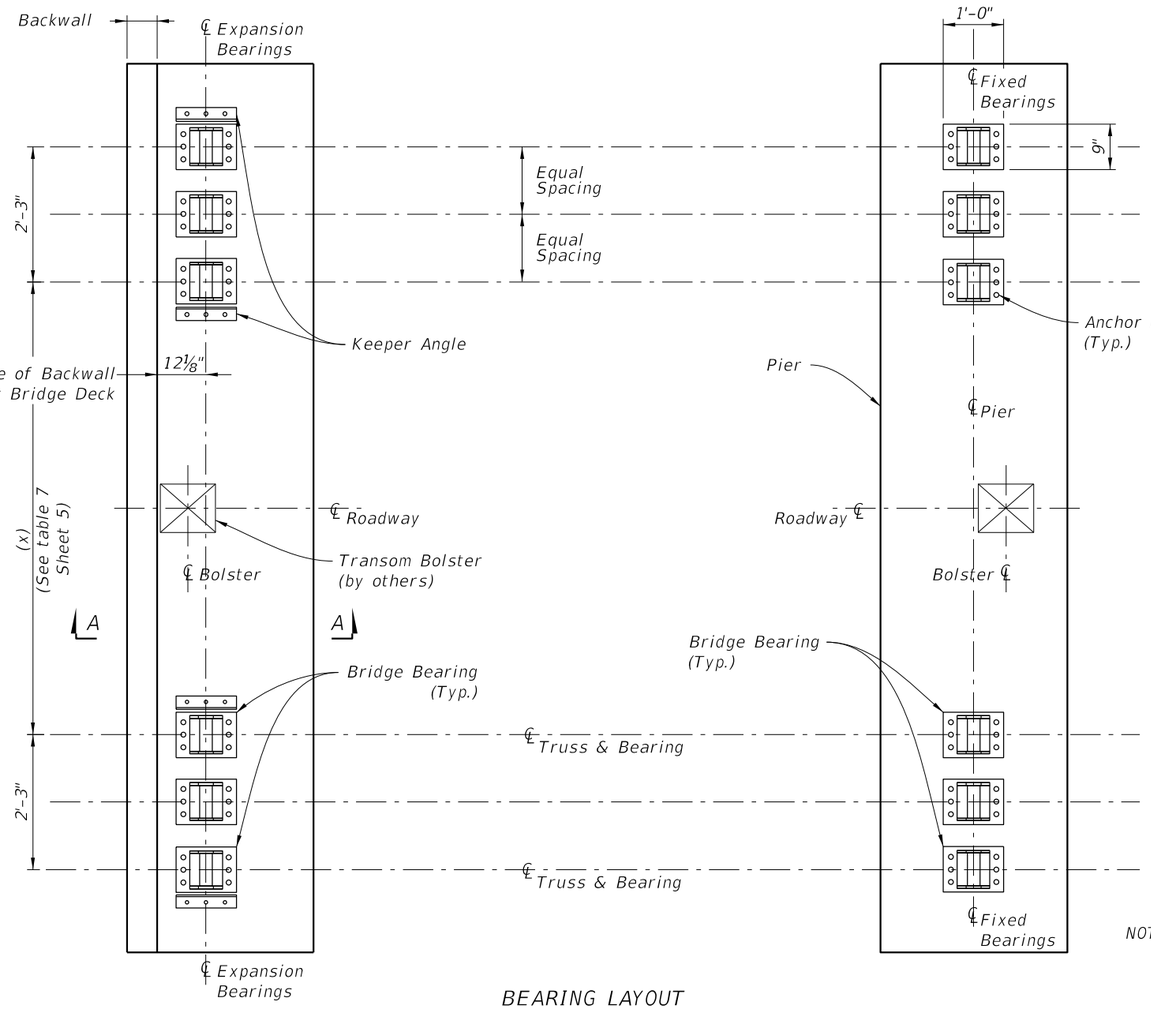



EOB AT DECK DETAIL
(Note: Expansion joint depends on
span/bridge length and configuration)



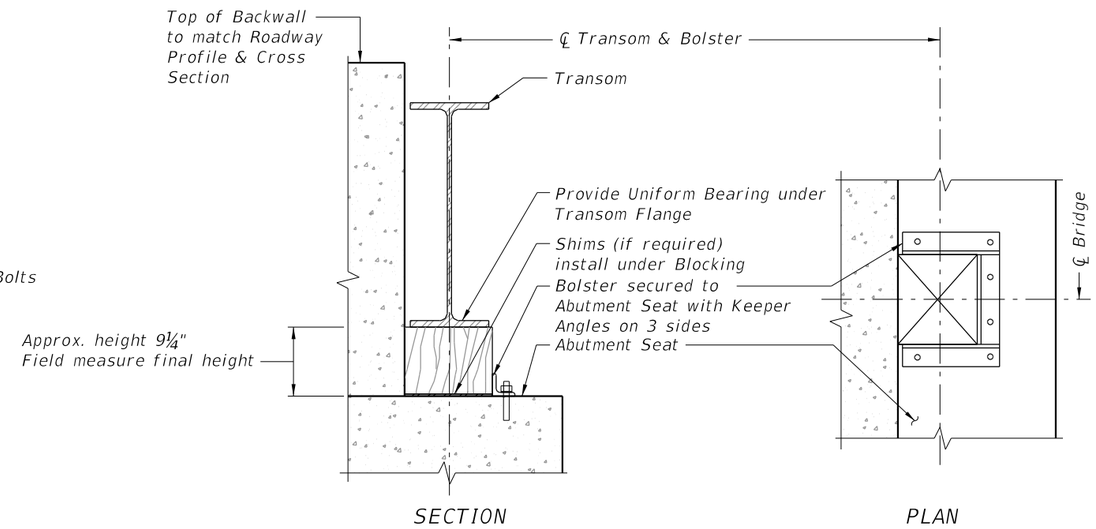

DISTRIBUTION BEAM DETAIT - END VIEW
(Triple Truss Shown)

TYPICAL DETAILS




BEARING LAYOUT

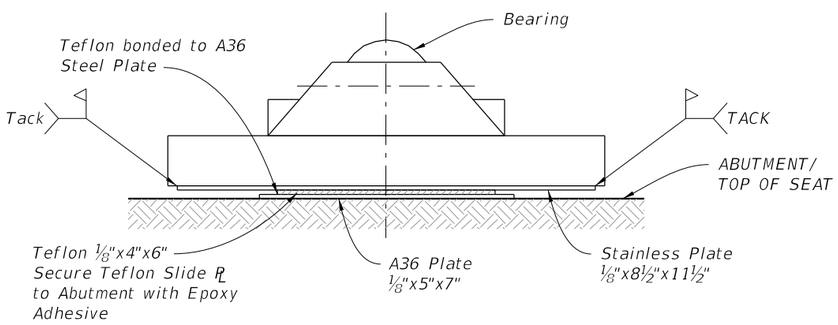
NOTE:
See Plans for size, grade and quantity of Anchor Bolts and Keeper Angles not included with Bridge Parts. Triple Truss shown. Double Truss would not include Center Bearing.



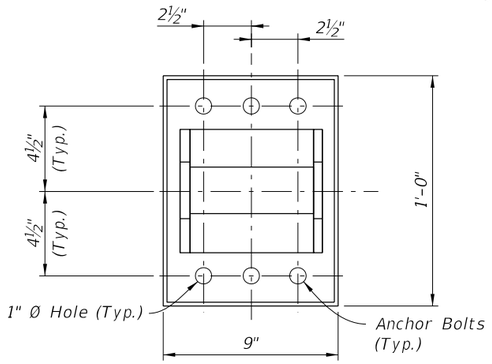

BOLSTER DETAIL SECTION A-A

NOTES:

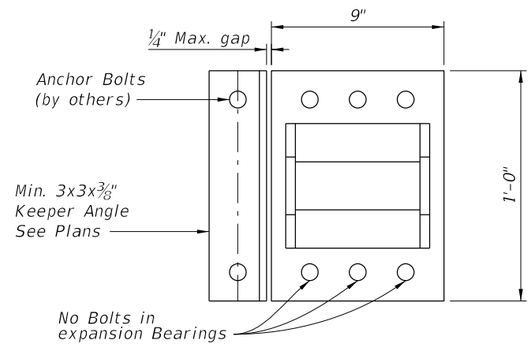
1. Hardwood Blocking is recommended; See Plan for final Bolster Design.
2. Install Bolster to a tight fit after Bridge & Deck are in place.
3. Bolster height will vary based on Transom Type/ Dead Loads.
4. Bolster to be secured from movement after installation.
5. Bolster to match Slope or Transom Flange.




EXPANSION BEARING ELEVATION VIEW A-A
(ANGLE & BACKWALL NOT SHOWN FOR CLARITY)




FIXED END - BEARING DETAIL




EXPANSION END - BEARING DETAIL

BEARING LAYOUT AND DETAILS



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**TABLE 1**

Swaybrace / Transom Brace

| Bridge Roadway width (ft) | Transom | Swaybrace Part # (Light) | Swaybrace Part # (Heavy) | Transom Brace Part # |
|---|---|---|---|---|
| 24 | SC0017 | AB590 | AB515 | AB519 |
| 24 | AB1006 | AB1012 | AB1012 | AB519 |
| 36 | AB957 | AB891 | AB891 | AB519 |
| 42 | AB978 | AB979 | AB979 | AB519 |

**TABLE 2**

(a) Reinforcing Chord Thickness

| Regular Reinforcing Chord Thickness | Heavy Reinforcing Chord Thickness | Super Heavy Reinforcing Chord Thickness |
|---|---|---|
| 4" | 5" | 6" |

**TABLE 3**

| Bridge Roadway width (ft) | Transom Part # | (b) Height Bottom of Truss Chord to top of Transom |
|---|---|---|
| 24 | SC0017 | 28 5/16" |
| 24 | AB1006 | 34" |
| 36 | AB957 | 40 3/16" |
| 42 | AB978 | 43" |

**TABLE 4**

| Bridge Roadway width (ft) | Transom Part # | (x) ℄ to inner truss to ℄ inner truss | (y) Transom Beam Length |
|---|---|---|---|
| 24 | SC0017 | 26'-1" | 31'-4" |
| 24 | AB1006 | 26'-1" | 31'-4" |
| 36 | AB957 | 38'-4 13/16" | 43'-7 13/16" |
| 42 | AB978 | 44'-4 3/8" | 49'-7 3/8" |

**TABLE 5**

| Bridge Roadway width (ft) | Transom Part # | (b) Height Bottom of Truss Chord to top of Deck |
|---|---|---|
| 24 | SC0017 | 33 11/16" |
| 24 | AB1006 | 39 3/8" |
| 36 | AB957 | 45 9/16" |
| 42 | AB978 | 48 3/8" |

NOTE: Add 3/16" for Epoxy Aggregate Deck

**TABLE 6**

| Bridge Roadway width (ft) | Transom Part # | (c) Height Bottom of fixed bearing to top of Deck | (d) Height Bottom of expansion bearing to top of Deck |
|---|---|---|---|
| 24 | SC0017 | 39 1/16" | 39 7/16" |
| 24 | AB1006 | 44 3/4" | 45 1/8" |
| 36 | AB957 | 50 15/16" | 51 5/16" |
| 42 | AB978 | 53 3/4" | 54 1/8" |

NOTE: Add 3/16" for Epoxy Aggregate Deck

**TABLE 7**

| Bridge Roadway width (ft) | Transom Part # | (x) ℄ to inner truss to ℄ inner truss |
|---|---|---|
| 24 | SC0017 | 26'-1" |
| 24 | AB1006 | 26'-1" |
| 36 | AB957 | 38'-4 13/16" |
| 42 | AB978 | 44'-4 3/8" |

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