GENERAL NOTES
These [GENERAL NOTES] are applicable unless otherwise stated in the Plan Details, Special Provisions, or Supplemental Specifications.

CONSTRUCTION SPECIFICATIONS

DESIGN SPECIFICATIONS
See Bridge Manual.

SUPERSTRUCTURE NOTES:

MATERIALS AND STRENGTHS:
Class S12/31 Concrete

- Reinforcing Steel Gr. 60, AbA12/15 or 3/16, Type A
- Structural Steel I-150 x 150 x 15
- Structural Steel L I-150 x 150 x 30
- Structural Steel L I-150 x 150 x 45
- Structural Steel L I-150 x 150 x 60

See Plan Details for Greatest Width of Structural Steel required.

CONCRETE:
All concrete shall be Class S12/31 with a minimum 28-day compressive strength of 2,400 psi. Concrete shall be placed in the dry and all exposed concrete shall be cured 7 days unless otherwise noted.

The superstructure detailed herein is for use with pre-cast beam type or solid slabs and the supports are subject to movement and not subject to any strain on the bridge deck with horizontal curvature.

The concrete subcontractor shall be responsible for the construction of concrete for the structural steel, including all reinforcing steel, and the supports for the construction of the bridge deck with horizontal curvature.


STRESS CONCRETE:

- All reinforcing steel shall be Grade 60 with a yield strength of 60,000 psi and a tensile strength of 80,000 psi.
- All prestressing steel shall be Grade 1575 with a yield strength of 157,500 psi.

All reinforcing steel shall be protected from rust and corrosion by the application of a corrosion-resistant paint system that shall comply with the requirements of Subsection 607.04 of the Arkansas Highway and Transportation Department Standard Specifications for Highway Construction (2015) Edition.

SUBSTRUCTURE NOTES:

CONCRETE:


STRENGTH:

- All structural steel in substructure shall be Grade 50 with a yield strength of 50,000 psi and a tensile strength of 65,000 psi.


STANDARD GENERAL NOTES
FOR STEEL BRIDGE STRUCTURES

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARKANSAS

DRAWING NO. 55036
*ARKANSAS HIGHWAY COMMISSION*

**ROBERT S. MOORE, JR. - CHAIR**

**DALTON A. "ALEC" FARMER, JR. - VICE CHAIR**

**PHILIP TALDO**

**KEITH GIBSON**

**MARIE HOLDER**

**DIRECTOR - LORIE H. TUDOR**

**DEPUTY DIRECTOR/CHIEF OPERATING OFFICER - RANDY ORT**

**DEPUTY DIRECTOR/CHIEF ENGINEER - REX VINES**

**CONTRACTOR**

**COMPANY NAME**

**YEAR**

---

**TYPICAL BRIDGE NAME PLATE**

- Place the design live loading here using 3/4" raised letters and numerals 3/4" high. Example: HL-03

- Place the name of the company awarded the construction contract here using 3/4" raised letters and numerals 3/4" high. Example: ARCO CONSTRUCTION, INC.

- Place the Bridge number here using 3/4" raised letters and numerals 3/4" high. Example: A1234 04432

---

**GENERAL NOTES**


Name plates shall be cast bronze and shall meet the material requirements as specified in Section 812.

The number of plates required and the location and name of the plate for each bridge shall be as designated on the plans.
GENERAL NOTES

Transitional Approach Railing Type SST336 shall be placed at locations shown.

All concrete shall be Class "C" with a minimum 28-day compressive strength f'c = 3,000 psi and shall be poured in the dry. All reinforcement shall be charred "C" unless otherwise noted.

All reinforcing steel shall be Grade 60 conforming to AASHTO M 31 or M 322, Type A, with REO certification.

All specified values within the limits of horizontal curves shall be on curves consistent with LTI, Construction, Adjustment to General Notes. Superseding reinforcing shall be placed on joint B in C1, Construction.

Unless otherwise noted in the plans, concrete and reinforcing shall be in accordance with AASHTO M156 and the surface finish type shall be as shown or as otherwise specified. The surface finish shall be a hard, smooth finish. The surface finish shall be an acid or a protective surface treatment, respectively.

The surface finishing material shall not be used for the finish of the concrete and shall be in accordance with AASHTO M156 and the surface finish type shall be as shown or as otherwise specified. The surface finish shall be a hard, smooth finish. The surface finish shall be an acid or a protective surface treatment, respectively.

A transitional surface finish shall be applied to the concrete and shall be in accordance with AASHTO M156 and the surface finish type shall be as shown or as otherwise specified. The surface finish shall be a hard, smooth finish. The surface finish shall be an acid or a protective surface treatment, respectively.

The surface finishing material shall not be used for the finish of the concrete and shall be in accordance with AASHTO M156 and the surface finish type shall be as shown or as otherwise specified. The surface finish shall be a hard, smooth finish. The surface finish shall be an acid or a protective surface treatment, respectively.

Slopes shown are to 2/3" in 12'. When using 11x17" sheet, reduce scale by one half.

FOR INFORMATION ONLY

SCHEDULE OF QUANTITIES PER RAIL UNIT

<table>
<thead>
<tr>
<th>CLASS</th>
<th>CONCRETE</th>
<th>INTERPOLATING STRENGTH (MPA)</th>
<th>CLASS 1</th>
<th>PROTECTIVE LAYER (AS)</th>
<th>CLASS 2</th>
<th>PROTECTIVE LAYER (AS)</th>
<th>CLASS 3</th>
<th>PROTECTIVE LAYER (AS)</th>
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1/2" Radius or Chamfer (match bridge rail)

2-1/2" Includes Reinforcement Joint

1/2" Radius or Chamfer (match bridge rail)

2-1/2" Includes Reinforcement Joint

PICTORIAL OF TRANSITIONAL APPROACH RAILING

Shown to scale except for details.

ARKANSAS STATE HIGHWAY COMMISSION

SECTION AND SUBSECTION REFER TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION).

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

STANDARD DETAILS FOR TRANSITIONAL APPROACH RAILING TYPE SST336

ARKANSAS STATE HIGHWAY COMMISSION

DRAWN BY: KAY
DATE: 4/6/2011
REMARKS:

ENGINEER: PM
DATE: 4/6/2011
SCALE: 1" = 1'-0" NO. SHOWN

CROSSING NO: 15013A

ARKANSAS STATE HIGHWAY COMMISSION

DRAWN BY: KAY
DATE: 4/6/2011
REMARKS:

ENGINEER: PM
DATE: 4/6/2011
SCALE: 1" = 1'-0" NO. SHOWN

CROSSING NO: 15013A
PLAN OF APPROACH GUTTER

Square approach gutter is shown. Modify approach gutter as necessary to accommodate a bridge or a slope. See Section A-A. Verify field conditions at bridge end.

5' High security wall (H-87) is required along a slow approaching vehicle.

Approach 20'-0" - Verify height of center of connection from 22'-0" to 23'-0".

SECTION A-A

APPROXIMATE QUANTITIES FOR ONE SQUARE 20'-0" APPROACH GUTTER

Concrete (Cu 61) (C'W x 0.66) 0.41
Reinforcing Rods (Cu 61) C'W x 0.2801 .211

STANDARD DETAILS FOR TYPE CT APPROACH GUTTERS (BRIDGES WITH CURB)

ARKANSAS STATE HIGHWAY COMMISSION

ROUTE SEC.
LITTLE ROCK, ARK

This document was originally issued and sealed by
Charles E. Wilmy, P.E., on November 7, 2013. The copy file is signed and sealed document.
BACKWALL REPAIR REMOVAL DETAIL

The portion of the backwall above the paving base as shown shall be removed and disposed of in accordance with Section 6.2. Payment for all materials, labor, tools, and equipment required for this work will be made in accordance with the "Material Bill of Hauling Bridge Structure (Bridge No. 2)."

BACKWALL REPAIR INSTALLATION DETAIL

The portion of the backwall above the paving base as shown shall be reconstructed to as shown. Payment for all materials, labor, tools, and equipment required for this work will be based on the "Material Bill of Hauling Bridge Structure (Bridge No. 2)." Details shown for LMC/VELMC Overlay without grade rolls: details for LMC/VELMC Overlay with grade rolls.
**RAIL TERMINUS DETAIL**

- Steel bars shall be raised up over drain opening as shown in "SECTION B-B".

**ELEVATION - SINGLE SLOPE TRAFFIC RAIL**

- Place 4 R402E bars 3'-6" in length. Place all remaining locations other than intermediate bars.

**TABLE OF VARIABLES**

<table>
<thead>
<tr>
<th>Panel Length (in.)</th>
<th>Closed Rail Panels</th>
<th>Open Rail Panels</th>
</tr>
</thead>
<tbody>
<tr>
<td>3' - 6&quot;</td>
<td>3'-8&quot;</td>
<td>3'-8&quot;</td>
</tr>
<tr>
<td>5'-6&quot;</td>
<td>5'-6&quot;</td>
<td>5'-6&quot;</td>
</tr>
<tr>
<td>8'-0&quot;</td>
<td>8'-0&quot;</td>
<td>8'-0&quot;</td>
</tr>
</tbody>
</table>

**GENERAL NOTES**

- This panel has been evaluated and accepted to be of equal strength to railings with similar geometry which have been evaluated by full-scale crash tests to meet MASH TL-4 criteria.

- See Plans for additional information.

**SAMPLE DETAILED SPECIFICATIONS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42**

**SPECIAL CONDITIONS**

- Rail joint ends shall be the same length within a panel.

**STANDARD DETAILS FOR BRIDGE TRAFFIC RAIL TYPE SSTR42**

**ARKANSAS STATE HIGHWAY COMMISSION**

**DESIGNER**

- C.B. BELL, PE

**ENGINEER**

- T. M. STEWART, PE

**LITTLE ROCK, ARK**

**FILE NAME:** SSTR42 - 55071

**DATE:** 06/30/2022

**DIST. NO.:** 06-00

**FED. RD.:** 658

**STATE:** AR

**TOTAL NO.:** 253

- These details are applicable unless otherwise shown in the Plan Sheet, Specifications, or Supplementary Specifications.