Standard Details Index

Chapter 4 – Aesthetics
  4.01 Formliner Details
  4.02 Aesthetic Concepts without Pedestrian Accommodations
  4.03 Aesthetic Concepts with Pedestrian Accommodations
  4.04 Wing & Parapet Aesthetic Details
  4.05 Multi-Columned Pier Aesthetic Details

Chapter 7 – Accelerated Bridge Construction
  7.01 GRS Abutments General Plan
  7.02 GRS Abutments Details
  7.03 Precast Pier Cap and Columns
  7.04 Precast Pier Cap and Column Details
  7.05 Precast (optional) Pier Cap and Columns
  7.06 Precast Bearing Block Details
  7.07 Cast-in-Place Bearing Block Details

Chapter 9 – Materials
  9.01 Structure Backfill Limits and Notes 1
  9.02 Structure Backfill Limits and Notes 2
  9.03 Wing Fill Sections at Wing Tips

Chapter 11 – Foundation Support
  11.01 Pile Details

Chapter 12 – Abutments
  12.01 Abutment Type A1 (Integral Abutment)
  12.02 Abutment Type A1
  12.03 Abutment Type A3
  12.04 Abutment Type A3
  12.07 Details for Wings Parallel to A1 Abutment Center Line
  12.08 Abutment A5 (Integral, Pile Encased Abutment)
  12.09 Alternate Construction Joint
  12.10 Structural Approach Slab
  12.11 Structural Approach Slab Details 1
  12.12 Structural Approach Slab Details 2
  12.13 Structural Approach Slab Details 3

Chapter 13 – Piers
  13.01 Multi-Columned Pier
  13.02 Hammerhead Pier
  13.03 Pile Encased Pier
  13.04 Pile Bent
  13.05 Multi-Columned Pier Type 2
  13.06 Hammerhead Pier - Type 2
  13.07 Multi-Columned Pier with Rectangular Columns
  13.08 Pier Cap Reinforcement Detailing
WisDOT Bridge Manual

Standard Details Index

Chapter 13 – Pile Encased Piers
13.09 Pile Encased Pier (Types)
13.10 51-inch Concrete Integral Barrier
13.11 Integral Barrier Details

Chapter 14 – Retaining Walls
14.02 MSE Retaining Wall Details
14.03 LRFD Proprietary Retaining Walls (General Plan)
14.04 MSE Wall at Abutment
14.05 MSE Wall at Abutment Layout Details
14.11 MSE Wall – Panel and Block Facing
14.12 MSE Wall – Wire Faced 1
14.13 MSE Wall – Wire Faced 2

Chapter 15 – Slope Protection
15.01 Placement of Heavy Riprap at River Crossings
15.02 Slope Paving - Structures (Crushed Aggregate & Select Crushed Material)
15.03 Slope Paving - Structures (Concrete Cast-In-Place)

Chapter 17 – Superstructure - General
17.01 Median and Raised Sidewalk Details
17.02 Deck and Slab Details
17.03 Edge of Deck Flashing

Chapter 18 – Concrete Slab Structures
18.01 Continuous Haunched Slab
18.02 Continuous Flat Slab

Chapter 19 – Prestressed Concrete
19.01 28" Prestressed Girder Details
19.02 28" Prestressed Girder Design Data
19.03 36" Prestressed Girder Details
19.04 36" Prestressed Girder Design Data
19.11 36W" Prestressed Girder Details
19.12 36W" Prestressed Girder Design Data
19.13 45W" Prestressed Girder Details
19.14 45W" Prestressed Girder Design Data
19.15 54W" Prestressed Girder Details
19.16 54W" Prestressed Girder Design Data
19.17 72W" Prestressed Girder Details
19.18 72W" Prestressed Girder Design Data
19.19 82W" Prestressed Girder Details
19.20 82W" Prestressed Girder Design Data
19.31 Bearing Pad Details for Prestressed Concrete Girders
19.32 Prestressed Girder Details
19.33 28" & 36" Prestressed Girder Slab & Superstructure Details
19.34 Prestressed 36W" & 45W" Girder Slab & Superstructure Details
19.35 Prestressed 54W", 72W", & 82W" Girder Slab & Superstructure Details
<table>
<thead>
<tr>
<th>Page</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.37</td>
<td>Interm. Steel Diaphragms for 70&quot;, 72W&quot;, &amp; 82W&quot; Prestressed Girders</td>
</tr>
<tr>
<td>19.38</td>
<td>Interm. Steel Diaphs. for 36W&quot; Prestressed Girders</td>
</tr>
<tr>
<td>19.50</td>
<td>3’-0” Prestressed Box Girder Sections</td>
</tr>
<tr>
<td>19.51</td>
<td>4’-0” Prestressed Box Girder Sections</td>
</tr>
<tr>
<td>19.52</td>
<td>Prestressed Box Girder Details 1</td>
</tr>
<tr>
<td>19.53</td>
<td>Prestressed Box Girder Details 2</td>
</tr>
<tr>
<td>19.54</td>
<td>Prestressed Box Girder Details 3</td>
</tr>
<tr>
<td>19.55</td>
<td>Prestressed Box Girder Details 4</td>
</tr>
<tr>
<td>19.56</td>
<td>Prestressed Box Girder Details 5</td>
</tr>
</tbody>
</table>

**Chapter 23 – Timber Structures**
- 23.01 Timber Abutments General
- 23.02 Timber Abutment
- 23.03 Timber Abutment Details

**Chapter 24 – Steel Girder Structures**
- 24.02 Plate Girder Details
- 24.03 Plate Girder Diaphragms and Cross Frames
- 24.04 End Diaphragms
- 24.06 Rolled Girder Diaphragms
- 24.08 Expansion Hinge Joint Details
- 24.09 Blocking & Slab Haunch Details
- 24.10 Girder Layout on Curve
- 24.11 Slab Pouring Sequence
- 24.12 Steel Girder Slab & Superstructure Details

**Chapter 27 – Bearings**
- 27.02 Fixed Bearing Details Type ‘A’ - Steel Girders
- 27.05 Brg. Details for Steel Gdrs. and Precast Units on A1 Abutments
- 27.06 Hold Down Devices
- 27.07 Elastomeric Bearings for Prestressed Concrete Girders
- 27.08 Stainless Steel – TFE Expansion Bearing Details Type ‘A-T’
- 27.09 Steel Bearings for Prestressed Concrete Girders
- 27.10 Steel Expansion Bearing Details

**Chapter 28 – Expansion Devices**
- 28.01 Strip Seal Expansion Joint Details
- 28.02 Strip Seal cover Plates Single Slope Para./Sdwk.
- 28.03 Modular Expansion Joint Details
- 28.05 Cover Plates for Single Slope Parapet
- 28.06 Cover Plates for Sidewalk w/Steel Rail
- 28.07 Strip Seal Cover Plates Sloped Face Para./Sdwk.
- 28.08 Cover Plates for Parapet ‘LF/HF’

**Chapter 29 – Floor Drains**
- 29.01 Floor Drain Type ‘GC’
- 29.02 Floor Drain Type ‘H’
29.03 Floor Drain Type ‘WF’

Chapter 30 – Railings

30.02 Steel Railing Type ‘W’
30.04 Tubular Railing Type ‘H’ (Alum.)
30.05 Tubular Railing Type ‘H’ (Steel)
30.07 Vertical Face Parapet ‘A’
30.08 Combination Railing Type ‘3T’
30.09 Combination Railing Type ‘3T’ Details
30.10 Parapet Footing
30.11 Chain Link Fence Details
30.14 Lighting Detail
30.15 Tubular Steel Railing - Screening
30.16 Tubular Steel Railing Type ‘M’
30.17 Combination Railings Type ‘C1-C6’
30.18 Combination Railings Details
30.19 Vertical Face Parapet ‘TX’
30.20 Sloped Face Parapet ‘51F’
30.21 Light Standard and Junction Box for Parapets
30.22 Conduit Details and Notes
30.24 Timber Railing Attached to Concrete Slab
30.25 Timber Railing Attached to Concrete Slab Details
30.26 Tubular Steel Railing Type NY3
30.27 Tubular Steel Railing Type NY4
30.28 End Post Details for Tubular Steel Railing Type NY3 & NY4
30.29 Sidewalk Details for Tubular Steel Railing Type NY4
30.30 Single Slope Parapet 32SS
30.31 Single Slope Parapet 36SS
30.32 Single Slope Parapet 42SS
30.33 Single Slope Parapet 56SS
30.34 Single Slope Parapet 32SS with Structural Approach Slab
30.35 Single Slope Parapet 36SS with Structural Approach Slab
30.36 Single Slope Parapet 42SS with Structural Approach Slab
30.37 Single Slope Parapet 56SS with Structural Approach Slab

Chapter 36 – Box Culverts

36.01 Box Culvert Layout
36.02 Box Culvert Apron Details
36.03 Box Culvert Details
36.04 Box Culvert Manhole for Inlet Type 8 & 9
36.05 Precast Concrete Box Culvert Barrel Details
36.06 Precast Wings, Headers, & Cutoff Walls for Precast Concrete Box Culvert
36.07 Pipe Opening in Culvert Wall
36.08 Guardrail Post Anchorage System
36.10 Precast Three-Sided Box Culvert Design Notes
36.11 Precast Three-Sided Box Culvert Layout Designs
36.12 Precast Three-Sided Box Culvert Details
36.13 Precast Three-Sided Box Culvert Headwall Details
36.14 Precast Three-Sided Box Culvert Headwall Details
36.15 Precast Three-Sided Box Culvert Cross Sections
36.16 Precast Three-Sided Box Culvert Reinforcement

Chapter 37 – Pedestrian Bridges
37.01 Pedestrian Overpass
37.02 Pedestrian Overpass Details

Chapter 38 – Railroad Structures
38.01 Highway Over Railroad Design Requirements

Chapter 39 – Sign Structures
39.02 4-Chord Galvanized Steel Sign Bridge
39.03 4-Chord Sign Bridge Details
39.09 Sign Bridge Catwalk
39.10 Galvanized Steel Cantilever Sign Truss
39.11 Galvanized Steel Cantilever Sign Truss Details
39.12 Cantilever Truss Footing
39.13 Handhole Details

Chapter 40 – Bridge Rehabilitation
40.01 Concrete Repair Details
40.02 Cathodic Protection
40.03 Overlay Details
40.04 Strip Seals & Diaph. Details for Overlays
40.05 Longit. Const. Joint Repairs
40.06 Abutment Widening
40.07 Slab Widening
40.08 Expansion Bearing Replacement Details
40.09 Hinged Joint Rehabilitation
40.10 Concrete Bearing Block Details
40.11 Bar Splicer (Coupler) Details at Stage Construction
40.12 Finger Type Expansion Joint – Plate Girder
40.13 54" Pretensioned Girder Details
40.14 54" Pretensioned Girder Design Data
40.15 Sloped Face Parapet ‘B’
40.16 Expansion Bearing Details, Type ‘A’ – Steel Girders
40.17 45” Prestressed Girder Details
40.18 45” Prestressed Girder Design Data
40.19 70” Prestressed Girder Details
40.20 70” Prestressed Girder Design Data
40.21 Rocker Bearing Type ‘B’ – Steel Girders
40.22 Type ‘B’ – Steel Girders Fixed Shoe
40.23 Wing Strapping
40.24 Railing Tubular Type ‘PF’
40.25 Railing Tubular Type ‘PF’ Details
40.26 Tubular Steel Railing Type ‘F’
40.27 Sloped Face Parapet ‘LF’
40.28 Sloped Face Parapet ‘HF’
40.31 Concrete Overlay
40.32 Polymer Overlay
40.33 Polymer Modified Asphaltic and Asphaltic Overlays
40.34 Polyester Polymer Concrete Overlay
40.40 Abutment A4 Pile Footing
40.41 Abutment A4 Pile Footing