NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

BRIDGE DETAIL SHEETS - REVISION HISTORY

Date of Revision	Name of Detail Sheet	Revision Description	Background
8/5/2015	Wood Panel Soundwall (1 of 3)	Added the word "(TYP)" to descriptions on Soundwall Elevation and Soundwall Plan regarding the drilled shaft, closed cell material, wood panels and precast concrete post.	Clarified descriptions.
8/4/2015	54" Single Slope Concrete Barrier, Precast	Revised Concrete Barrier Reinforcing Schedule: Loop bar unbent length: From 8'-2" to 7'-11" #4 stirrup: From 3 1/8" R to 2 5/8" R, 8.83" to 8 7/8", 4.37" to 5 1/4", unbent length 11'-2" to 11'-3 5/8"	Corrected reinforcing dimensions.
8/4/2015	54" Single Slope Concrete Barrier Single Faced, Precast	Revised Concrete Barrier Reinforcing Schedule: Loop bar unbent length: From 7'-7 1/4" to 7'-3 1/2" #4 stirrup: From 2 3/4" R to 2 1/4" R, 8" to 8 1/4", 10 1/2" to 9 1/2", 4" to 5 1/4", unbent length 10'-9" to 10'-9 3/8"	Corrected reinforcing dimensions.
5/10/2015	T2 Steel Bridge Rail T3 Steel Bridge Rail T4 Steel Bridge Rail	Added: "Face of Rail" note to Anchor Plate Detail	Clarification on what direction the anchor plate shall be placed in the curb. The reduced plate section due to the hole is to be on the side with the back anchor rods.
4/23/2015	Bridge-Mounted Sign Supports	Revised note #1 Anchor Plate Notes to: *1/2" ∅ high strength galvanized anchor bolts 8" long (1 1/2" above top of concrete) with standard galvanized nut and washer in drilled hole. The hole shall be filled with high strength non-shrink grout after the anchor bolt is anchored (typical). The anchor bolts shall conform to the requirements of ASTM A449.* From: ~~1/2"Æ high strength galvanized expansion bolt 8" long (1 1/2" above top of concrete) with standard galvanzied nut and washer in drilled hoel. The hole shall be filled with high strength non-shrink gournt after the expansion bolt is anchored (typical).~~ Revised note #3 General Notes to: *All bolts and related hardware shall conform to the requirements of AASHTO M164 (ASTM A325) Type 3. All bolts shall be slip critical (class B), 7/8" ∅ high strength in 15/16" ∅ holes.* From: ~~All bolts and related hardware shall conform to the requirements of AASHTO M164 (ASTM A325) Type 1.~~ Added hole dimension to Section B-B	Clarification what type of bolts to use in the anchor attachment and the girder attachment.
4/20/2015	Wood Panel Soundwall (1 of 3) Wood Panel Soundwall (2 of 3) Wood Panel Soundwall (3 of 3) Soundwall Location Chart	Definition of wall height shown on Section A-A, added note on sheet 2, Post Length column added to table on sheet 4.	Clarified definition of wall height. Added column on Soundwall Location Chart table for designer to calculate the precast post lengths.

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2/18/2015	Wood Panel Soundwall 2 of 3	Revised note #9 of General Notes to include wording: *All costs subsidiary to Item 594.2.*	Clarification that water repellent (silane-siloxane) will be subsidiary to the soundwall item, 594.2.
2/3/2015	T4 Steel Bridge Approach Rail (Steel Posts)	Revised note #3 to: *Weld splice bars to fit bend. Use complete joint penetration butt weld (B-U2).* From: ~~Weld bottom splice bar to fit bend. Use complete joint penetration butt weld (B-U2).~~	Clarification that only the top two splice bars shall be welded.
2/3/2015	T3 Steel Bridge Approach Rail (Steel Posts)	Revised note #3 to: *Weld splice bars to fit bend. Use complete joint penetration butt weld (B-U2).* From: ~~Weld bottom splice bar to fit bend. Use complete joint penetration butt weld (B-U2).~~	Clarification that all splice bars shall be welded.
2/3/2015	T2 Steel Bridge Approach Rail (Steel Posts)	Revised "Elevation View" note to: *Splice bar (bent) See note #3 (End splice bar to be paid under bridge approach rail (Typ)* From: ~~Splice bars (bottom bent) See note #3 (End splice bar to be paid under bridge approach rail (Typ)~~ Revised note #3 to: *Weld splice bar to fit bend. Use complete joint penetration butt weld (B-U2).* From: ~~Weld bottom splice bar to fit bend. Use complete joint penetration butt weld (B-U2).~~	Clarification on what splice bar shall be welded. The top splice bar does not need to be welded.
1/15/2015	Pier Protection Type I (54" SS Concrete Barrier) Pier Protection Type II (54" SS Concrete Barrier) Pier Protection Type II (54" SF Concrete Barrier)	Added note: Modifications shall be made to sheet to fit project.	Clarification that changes can be made to sheet.
12/12/2014	Wood Panel Soundwall (1 of 3) Wood Panel Soundwall (2 of 3) Wood Panel Soundwall (3 of 3) Soundwall Location Chart	Added notes, removed one post design, increased plate thickness, removed grout, and increased anchor rod extended length above shaft.	Updated sheets for AASHTO LRFD 2014 Specification and higher exposure height.
12/12/2014	Bridge-Mounted Sign Supports	Updated sheet to include design criteria, note to designer, anchor plate detail, concrete girder attachment, and max. design dimensions.	Updated sheet.

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6/19/2014	Aluminum Bridge and Approach Rail	All plan sheets of aluminum bridge and approach rail have been removed from the website per memo dated 6/12/2014.	Bureau of Bridge Design has decided to discontinue use of aluminum bridge and approach rail for all new projects due to concerns with whether this rail system would perform as needed during a vehicular impact as it has not been crash tested in its current configuration. Until crash testing can be accomplished, it was felt prudent to no longer use this rail system. Bridge rehabilitation projects that currently have aluminum bridge railing will be reviewed on a case-by-case basis.
3/30/2014	54" Single Slope Concrete Barrier, Precast	Added: "Optional End View (Masonry)" detail.	A precast concrete fabricator requested the optional detail so the barrier could be cast with their current forms.
3/30/2014	T101 Bridge & Approach Rail (Steel Posts, Brown) 3" curb reveal T101 Bridge & Approach Rail (Steel Posts, Galvanized) 3" curb reveal T101 Bridge & Approach Rail (Steel Posts, Brown) 7" curb reveal T101 Bridge & Approach Rail (Steel Posts, Galvanized) 7" curb reveal	Revised all details dimensioning the bridge and approach rail height. The height was increased from 2'-6" to 2'-7". Revised note (2) of General Notes to include: "(@ HEIGHT of 2'-3")"	Revised the bridge and approach rail height to match Highway Design's change to 31". The bridge railing was crash tested at a height of 2'-3".
3/30/2014	Approach Rail (2-Bar Aluminum, Steel Posts) Approach Rail (3-Bar Aluminum, Steel Posts) Use with brush curb Approach Rail (3-Bar Aluminum, Steel Posts) Use with sidewalk Approach Rail (4-Bar Aluminum, Steel Posts)	Revised "Elevation View Approach Rail" guardrail height from 2'-6" to 2'-7".	Revised the w-beam guardrail height to match Highway Design's change to 31". The bridge approach rail height is 34". The transition section was **not** revised for the 1" change. A beam guardrail installer was contacted and said the 1" vertical difference can be adjusted in the field.
3/25/2014	T2 Steel Bridge Approach Rail T3 Steel Bridge Approach Rail T4 Steel Bridge Approach Rail	Revised "Elevation View Approach Rail" guardrail height from 2'-6" to 2'-7".	Revised the w-beam guardrail height to match Highway Design's change to 31". The bridge approach rail height is 34". The transition section was **not** revised for the 1" change. A beam guardrail installer was contacted and said the 1" vertical difference can be adjusted in the field.

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3/25/2014	T2 Steel Bridge Approach Rail T3 Steel Bridge Approach Rail T4 Steel Bridge Approach Rail	Revised "Plan View Approach Rail" note to: *Synthetic Blockout for W-Beam Guardrail* *From:* ~~Synthetic Blockout for W-Beam Guardrail (8" Deep (Nominal) x 1'-2" Long) (Typ) (See Special Provisions)~~	Removed blockout description.
3/25/2014	Pier Protection Type I (54" Single Slope Concrete Barrier) Pier Protection Type II (54" Single Slope Concrete Barrier) Pier Protection Type II (54" Single Slope Concrete Barrier, Single Faced)	Revised "Elevation View" note to: *Item 593.121, Geotextile: Subsurface Drainage, Class 2, Non-Woven (center 2'-0" wide section over barrier joints)(Typ)* From: ~~Item 593.121, Geotextile: Subsurface Drainage, Class 1, Non-Woven (center 2'-0" wide section over barrier joints)(Typ)~~	Item description incorrectly stated Class 1. Item number is correct.
3/9/2014	T2 Steel Bridge Rail T3 Steel Bridge Rail T4 Steel Bridge Rail Aluminum Bridge Rail (2-Bar) Aluminum Bridge Rail (3-Bar)	Added note to "Modifications Permitted for this Sheet": *2. ITEM NUMBER AND DESCRIPTION IF SNOW SCREENING AND/OR PROTECTIVE SCREENING WILL BE USED*	New note allows modification to the item number when using snow or protective screening.