

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



BUREAU OF BRIDGE DESIGN



Substructure Bridge Details - REVISION HISTORY

Date of Revision	Name of Detail	Revision Description	Background
9/25/2023	Integral Semi-Integral Details	Added note to Typical Approach And Sleeper Slab Plan: <i>"Place 1/2" thick cork filler between deck and approach slab curb to 1/2" below surface (subsidiary to item 520.0302). Seal front face of joint, across top and down back with silicone joint sealant, Item 561.1 (TYP).</i>	Due to rotation of integral abutment, the concrete curb cracks at the approach slab which doesn't rotate. A cold joint is a better detail.
7/31/2023	All Substructure Bridge Details	Converted from MicroStation V8i to MicroStation Connect. Changes made are shown with highlights on Detail Sheet .	
8/27/2019	Substructure Details - Sleeper Slab Bearing Strip Detail	Revised note: To: <i>"Approach Slab Strip: Bond rubber backed side of a 1'-0" wide strip to top of the approach slab strip for the full length of the approach slab strip "</i> From: Approach Slab Strip: At intermediate locations, bond rubber backed side of a 1'-0" wide strip to top of the approach slab strip along the width of the approach slab strip.	The strip should be bonded the full length and not at intermediate locations as previously noted.
12/5/2018	Substructure: Integral & Semi-Integral Details	Typical Integral Abutment Section: Revised note: To: <i>"Reinforcement continuous thru 2" ϕ hole in girder web (spaced as per design)"</i> From: Reinforcement continuous thru oversized hole in girder web (sized and spaced as per design)	Designers have been sizing the holes too small. Spoke with a steel fabricator and 2-in. diameter hole is typically used.
4/4/2018	Substructure: Integral Details	Added Sleeper Slab Detail Compression Seal Exp. Jt. <u>Sleeper Slab Detail Closed Cell Exp. Jt.:</u> Removed Type 1 and Type 2 closed cell. Changed note #3 to include manufacturer names. Added note #5 and #6. <u>Typ. Appr. & Sleeper Slab Reinf. Section:</u> Added top mat reinforcing and Section C-C Added Typ. Approach and Sleeper Slab Plan (Masonry and Reinforcement) Added Sleeper Slab Elevation	Design of closed cell expansion joint has been revised. See Design Memorandum 2018-02. Changed detail to show one type of closed cell (expansion joint type; removed filler type). The detail was confusing with two types. Top mat steel reinforcement is now required for approach slabs with integral bridges. Added additional details for approach and sleeper slabs.

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3/11/2016	Approach Slab Details	Revised Details: "Approach Slab - Asphaltic Plug Exp. Jt" and "Approach Slab - Exp. Jt. Behind Backwall": Revised spacing of 3" dia. split pvc drain pipe from 3'-0" o.c. to 6'-0" o.c.	3-ft. spacing of split pvc pipes becomes tight when there is a skew. It was felt 6-ft. spacing is adequate.
2/8/2016	Spread Footing Details Abutment Details Integral & Semi-Integral Abutment Details Wall Joints Wingwall Details Retaining Wall Details Pier Details Approach Slab Details	Added substructure details.	