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# Bridges & Structures

Hydrology Highway Drainage Culvert Hydraulics Bridge Hydraulics Scour Coastal Highways	Structures	Geotech	Hydraulics	Safety and Management		
	1	0,	Highway Drainage	Culvert Hydraulics	Bridge Hydraulics	Scour

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# **Publications Current Publications**

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Publication Code	Publication Title	Publication Year	Last Errata Update	Publication #
CFL	Culvert Assessment and Decision- Making Procedures Manual, For Federal Lands Highway, First Edition	2010		FHWA-CFL/TD-10-005
CFL	Culvert Pipe Liner Guide and Specifications	2005		FHWA-CFL/TD-05-003
HDS 02	Highway Hydrology Second Edition	2002		FHWA-NHI-02-001
HDS 04	Introduction to Highway Hydraulics	2008		FHWA-NHI-08-090
HDS 05	Hydraulic Design of Highway Culverts, Third Edition	2012		FHWA-HIF-12-026
HDS 06	River Engineering for Highway Encroachments	2001		FHWA-NHI-01-004
HDS 07	Hydraulic Design of Safe Bridges	2012		FHWA-HIF-12-018

### **Email Notifications**

• Sign up to receive email notifications on Hydraulics Publications.

#### **Events**

• 2018 National **Hydraulic Engineering Conference** Columbus, OH August 28-31, 2018

## More Information

- Conferences
- Publications
- Research
- **Software**
- **Training**

#### Contact

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HEC 09	Debris Control Structures Evaluation and Countermeasures	2005		FHWA-IF-04-016
HEC 14	Hydraulic Design of Energy Dissipators for Culverts and Channels	2006	10/01/2012	FHWA-NHI-06-086
HEC 15	Design of Roadside Channels with Flexible Linings. Third Edition	2005		FHWA-IF-05-114
HEC 17	Highways in the River Environment - Floodplains, Extreme Events, Risk, and Resilience, 2nd Edition	2016	12/29/2017	FHWA-HIF-16-018
HEC 18	Evaluating Scour at Bridges, Fifth Edition	2012		FHWA-HIF-12-003
HEC 20	Stream Stability at Highway Structures Fourth Edition	2012		FHWA-HIF-12-004
HEC 21	Design of Bridge Deck Drainage	1993		FHWA-SA-92-010
HEC 22	Urban Drainage Design Manual Third Edition	2009	08/22/2013	FHWA-NHI-10-009
HEC 23	Bridge Scour and Stream Instability Countermeasures Experience, Selection, and Design Guidance Third Edition, Volume 1	2009		FHWA-NHI-09-111
HEC 23	Bridge Scour and Stream Instability Countermeasures Experience, Selection, and Design Guidance Third Edition, Volume 2	2009		FHWA-NHI-09-112
HEC 24	Highway Stormwater Pump Station Design	2001		FHWA-NHI-01-007

HEC 25	Highways in the Coastal Environment: Assessing Extreme Events: Volume 2 - 1st edition	2014	FHWA-NHI-14-006
HEC 25	Highways in the Coastal Environment: Volume 1 - 2nd edition	2008	FHWA-NHI-07-096
HEC 26	Culvert Design for Aquatic Organism Passage	2010	FHWA-HIF-11-008
HRT	Advanced Methodology to Assess Riprap Rock Stability At Bridge Piers and Abutments	2017	FHWA-HRT-17-054
HRT	Assessing Stream Channel Stability at Bridges in Physiographic Regions	2006	FHWA-HRT-05-072
HRT	Bridge Pressure Flow Scour for Clear Water Conditions	2009	FHWA-HRT-09-041
HRT	Effects of Inlet Geometry on Hydraulic Performance of Box Culverts	2006	FHWA-HRT-06-138
HRT	Fish Passage in Large Culverts With Low Flow	2014	FHWA-HRT-14-064
HRT	Hydraulic Performance of Shallow Foundations for The Support of Vertical- Wall Bridge Abutments	2017	FHWA-HRT-17-013
HRT	Hydraulics Laboratory Fact Sheet	2007	FHWA-HRT-07-054
HRT	Hydrodynamic Forces on Inundated Bridge Decks	2009	FHWA-HRT-09-028

HRT	Junction Loss Experiments: Laboratory Report	2007	FHWA-HRT-07-036
HRT	Pier Scour in Clear- Water Conditions With Non-Uniform Bed Materials	2012	FHWA-HRT-12-022
HRT	Scour in Cohesive Soils	2015	FHWA-HRT-15-033
HRT	Submerged Flow Bridge Scour Under Clear Water Conditions	2012	FHWA-HRT-12-034
HRT	Updating HEC-18 Pier Scour Equations for Noncohesive Soils	2016	FHWA-HRT-16-045
Other	Design for Fish Passage at Roadway-Stream Crossings: Synthesis Report	2007	FHWA-HIF-07-033
Other	NCHRP Report 25- 25 (04) Environmental Stewardship Practices, Procedures, and Policies for Highway Construction and Maintenance	2004	
Other	Structural Design Manual for Improved Inlets and Culverts	1983	FHWA-IP-83-6
Other	Underwater Evaluation And Repair of Bridge Components	1998	FHWA-DP-98-1
Other	Underwater Inspection of Bridges	1980	FHWA-DP-80-1
RD	Bottomless Culvert Scour Study: Phase Laboratory Report	2002	FHWA-RD-02-078
RD	Bottomless Culvert Scour Study: Phase Il Laboratory Report	2007	FHWA-HRT-07-026

RD	Bridge Scour in Nonuniform Sediment Mixtures and in Cohesive Materials: Synthesis Report	2003	FHWA-RD-03-083
RD	Durability Analysis of Aluminized Type 2 Corrugated Metal Pipe	2000	FHWA-RD-97-140
RD	Effects of Gradation and Cohesion on Scour, Volume 1, "Effect of Sediment Gradation and Coarse Material Fraction on Clear Water Scour Around Bridge Piers"	1999	FHWA-RD-99-183
RD	Effects of Gradation and Cohesion on Scour, Volume 2, "Experimental Study of Sediment Gradation and Flow Hydrograph Effects on Clear Water Scour Around Circular Piers"	1999	FHWA-RD-99-184
RD	Effects of Gradation and Cohesion on Scour, Volume 3, "Abutment Scour for Nonuniform Mixtures"	1999	FHWA-RD-99-185
RD	Effects of Gradation and Cohesion on Scour, Volume 4, "Experimental Study of Scour Around Circular Piers in Cohesive Soils"	1999	FHWA-RD-99-186
RD	Effects of Gradation and Cohesion on Scour, Volume 5, "Effect of Cohesion on Bridge Abutment Scour"	1999	FHWA-RD-99-187
RD	Effects of Gradation and Cohesion on Scour, Volume 6.	1999	FHWA-RD-99-188

	"Abutment Scour in Uniform and Stratified Sand Mixtures"		
RD	Enhanced Abutment Scour Studies For Compound Channels	2004	FHWA-RD-99-156
RD	Field Observations and Evaluations of Streambed Scour at Bridges	2005	FHWA-RD-03-052
RD	Hydraulics of Iowa DOT Slope-Tapered Pipe Culverts	2001	FHWA-RD-01-077
RD	Performance Curve for a Prototype of Two Large Culverts in Series Dale Boulevard, Dale City, Virginia	2001	FHWA-RD-01-095
RD	Portable Instrumentation for Real Time Measurement of Scour At Bridges	1999	FHWA-RD-99-085
RD	Remote Methods of Underwater Inspection of Bridge Structures	1999	FHWA-RD-99-100
RD	South Dakota Culvert Inlet Design Coefficients	1999	FHWA-RD-01-076

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