

**2001 Road and Bridge Standards
Volume 1 Table of Contents**

Section 100

Standard	Page	Title	Revised	Revised	Revised	Revised
EW-1 EW-1A	101.01	Standard Endwall for Pipe Culverts 12" - 36" Circular and 23" X 14" - 53" X 34" Elliptical Pipes				
EW-1PC EW-1APC	101.02	Precast Endwall for Pipe Culverts 12" - 36" Circular and 23" X 14" - 53" X 34" Elliptical Pipes				
EW-2 EW-2A	101.03	Standard Endwall for Pipe Culverts 42" - 96" Circular and 60" X 38" - 106" X 68" Elliptical Pipes				
	101.04	Standard Endwall for Pipe Culverts 42" - 96" Circular Pipes				
	101.05	Standard Endwall for Pipe Culverts 60" X 38" - 106" X 68" Elliptical Pipes				
EW-2 PC	101.06	Precast Endwall for 42" - 96" Circular Pipe Culverts				
EW-2A PC	101.07	Precast Endwall for 60" X 38" - 106" X 68" Elliptical Pipe Culverts				
EW-2S	101.08	Standard Endwalls for 42"-96" Pipe Culverts 30 and 45 Degree Skews				
	101.09	Standard Endwalls for 42"-96" Pipe Culverts 30 and 45 Degree Skews				
EW-2S PC	101.10	Precast Endwalls for Pipe Culverts				
EW-6	101.11	Endwalls for Multiple Pipe Culverts 12" - 36" Pipe				
EW-6 PC	101.12	Precast Endwalls for Multiple Pipe Culverts				
EW-6S	101.13	Endwalls for Multiple Pipe Culverts 12" - 36" Pipe 30 Degree Skew				
	101.14	Endwalls for Multiple Pipe Culverts 12" - 36" Pipe 45 Degree Skew				
EW-6S PC	101.15	Precast Endwalls for Multiple Pipe Culverts 12" - 36" Pipe 30 Degree Skew				
	101.16	Precast Endwalls for Multiple Pipe Culverts 12" - 36" Pipe 45 Degree Skew				
EW-7	101.17	Endwalls for Multiple Pipe Culverts 42" - 96" Pipe				
EW-7 PC	101.18	Precast Endwalls for Multiple Pipe Culverts 42" - 96" Pipe				
EW-7S	101.19	Endwalls for Multiple Pipe Culverts 42" - 96" Pipe 30 Degree Skew	7/01			
	101.20	Endwalls for Multiple Pipe Culverts 42" - 96" Pipe 45 Degree Skew				
EW-7S PC	101.21	Precast Endwalls for Multiple Pipe Culverts 42" - 96" Pipe 45 Degree Skew				
EW-9	101.22	Endwalls for Pipe Arches 13" - 38" Rise				
EW-9 PC	101.23	Precast Endwalls for Pipe Arches 13" - 38" Rise				
EW-10	101.24	Endwalls for Multiple Pipe Arches 13" - 38" Rise				

Standard	Page	Title	Revised	Revised	Revised	Revised
EW-10 PC	101.25	Precast Endwalls for Multiple Pipe Arches 13" - 38" Rise				
EW-11	101.26	Pipe Endwall with Load-Carrying Grate for 12" - 60" Pipes				
	101.27	Pipe Endwall with Load-Carrying Grate for 12" - 60" Pipes				
	101.28	Pipe Endwall with Load-Carrying Grate for 12" - 60" Pipes				
EW-11A	101.29	Pipe Endwall with Load - Carrying Grate for 12" - 24" Pipes				
	101.30	Pipe Endwall with Load - Carrying Grate for 12" - 24" Pipes				
EW-11A PC	101.31	Precast Pipe Endwall with Load-Carrying Pipe Grate for 12" - 24" Pipes				
EW-12	101.32	Endwalls for Pipe Underdrain	7/03	7/04		
ES-1	102.01	Flared End-Section for Concrete Pipe Culverts (12"-60")	7/01			
ES-1A	102.02	Flared End-Section for 23" X 14" to 53" X 34" Elliptical Concrete Pipe Culverts	7/01			
ES-2	102.03	Flared End-Section for 12" - 60" Corrugated Pipe Culverts	7/01			
ES-3	102.04	Flared End-Section for Metal Pipe Arches 13" - 47" Rise				
	103.01	Precast Unit Assembly Diagram				
	103.02	Legend & General Notes - Precast	7/05			
T-DI-1	103.03	Precast Top Unit - DI-1				
T-DI-2	103.04	Precast Top Unit - DI-2	3/03			
T-DI-3, 4	103.05	Precast Top Unit - DI-3, DI-4	3/03			
	103.06	Precast Top Unit - DI-3, DI-4				
T-DI-5	103.07	Precast Top Unit - DI-5	7/05			
T-DI-7	103.08	Precast Top Unit - DI-7	7/05			
T-MH-2	103.09	Precast Manhole Top Units				
R-1, 2, 3	103.10	Precast Reducer and Riser Units				
B-1, 2	103.11	Precast Base Units				
B-3	103.12	Precast Base Unit				
B-4	103.13	Corrugated Metal Base Unit				
DI-1	104.01	Standard Drop Inlet 12"-24" Pipe: Maximum Depth (H) = 10'				
DI-1A	104.02	Standard Drop Inlet 12"-24" Pipe: Depth (H) 10' to 20'	7/04			
DI-2A, 2B, 2C	104.03	Standard Curb Drop Inlet 12"-24" Pipe: Maximum Depth (H) = 9'	1/04	7/05		
	104.04	Dimensions & Quantities	1/04			
DI-2AA, 2BB, 2CC	104.05	Standard Curb Drop Inlet 12"-24" Pipe: Depth (H) = 9' to 20'				
DI-2D, 2E, 2F	104.06	Standard Curb Drop Inlet 30"-48" Pipe: Maximum Depth (H) = 9'	1/04	7/05		
	104.07	Dimensions & Quantities				
DI-2DD, 2EE, 2FF	104.08	Standard Curb Drop Inlet 30"-48" Pipe: Depth (H) = 9' to 20'				

Standard	Page	Title	Revised	Revised	Revised	Revised
DI-3A, 3B, 3C	104.09	Standard Curb Drop Inlet 12"-30" Pipe: Maximum Depth (H) = 8'				
	104.10	Dimensions & Quantities				
DI-3AA, 3BB, 3CC	104.11	Standard Curb Drop Inlet 12"-30" Pipe: Depth (H) 8' to 20'				
DI-3D, 3E, 3F	104.12	Standard Curb Drop Inlet (With Utility Space) 12"-30" Pipe: Maximum Depth (H) = 8'	7/01	7/02		
	104.13	Dimensions & Quantities				
DI-3DD, 3EE, 3FF	104.14	Standard Curb Drop Inlet (With Utility Space) 12"-30" Pipe: Depth (H) = 8' to 20'				
DI-4A, 4B, 4C	104.15	Standard Curb Drop Inlet 36"-48" Pipe: Maximum Depth (H) = 8'				
	104.16	Dimensions & Quantities				
DI-4AA DI-3BB DI-4CC	104.17	Standard Curb Drop Inlet 36"-48" Pipe: Depth (H) 8' to 20'				
DI-4D DI-4E DI-4F	104.18	Standard Curb Drop Inlet (With Utility Space) 36"-48" Pipe: Maximum Depth (H) = 8'				
	104.19	Dimensions & Quantities				
DI-4DD, 4EE, 4FF	104.20	Standard Curb Drop Inlet (With Utility Space) 36"-48" Pipe: Depth (H) 8' to 16'				
DI-5	104.21	Standard Ditch Drop Inlet	7/05			
DI-7, 7A, 7B	104.22	Standard Median Drop Inlet 12"-42" Pipe				
	104.23	Cover & Gutter Details	7/05			
	104.24	Standard DI-7, 7A or 7B with Flume Connection 12" to 36" Pipe				
DI-9	104.25	15" Pipe Tee Section Drop Inlet	7/04			
DI-10G, 10H, 10I	104.26	Concrete Median Barrier Drop Inlet				
	104.27	Quantities & Dimensions				
DI-10J, 10K, 10L	104.28	Concrete Median Barrier Drop Inlet				
	104.29	Concrete Median Barrier Drop Inlet	7/01	7/02		
DI-12, 12A	104.30	Multigrate Drop Inlet for Pipe Sizes 12"-72"				
	104.31	Grate Details	7/05	2/06		
	104.32	Quantities & Dimension				
DI-12B, 12C	104.33	Multigrate Drop Inlet for Pipe Sizes 12"-36"	7/05	2/06		
	104.34	Grate Details & Quantities	7/05	2/06		
DI-13	104.35	Shoulder Slot Inlet				
	104.36	Shoulder Slot Inlet	7/05			
PI-1	104.37	Method of Outlet Pipe Installation for DI-13				
DI-14A, 14B, 14C	104.38	Concrete Median Barrier Drop Inlet (Tall Wall)	2/06			
	104.39	Quantities & Dimensions	2/06			
DI-14D, 14E, 14F	104.40	Concrete Median Barrier Drop Inlet (Tall Wall)	7/01			
	104.41	Concrete Median Barrier Drop Inlet (Tall Wall)	7/01			
DI-MB	104.42	Concrete Masonry Block Curb Drop Inlet				
IC-2	105.01	Standard Inlet Frame and Cover				
	105.02	Standard Inlet Frame and Cover				

Standard	Page	Title	Revised	Revised	Revised	Revised
IC-2	105.03	Precast Inlet and Frame Cover				
MH-1	106.01	Manhole for 12" to 48" Pipe Culvert	7/01			
	106.02	Standard Manhole Frame and Cover				
	106.03	Standard Manhole Frame and Cover				
	106.04	Standard Manhole Frame and Cover	7/02			
	106.05	Standard Manhole Frame and Cover				
MH-1A	106.06	Standard Manhole Frame and Cover				
MH-2	106.07	Precast Manhole				
IS-1	106.08	Method of Shaping Manhole and Inlet Culverts				
ST-1	106.09	Standard Step				
JB-1	106.10	Junction Box Chamber Details for 48" - 72" Pipe Culverts				
	106.11	Junction Box Details for Angular Connections of 48" - 72" Pipe Culverts				
	106.12	Junction Box Tower Details for 48" - 72" Pipe Culverts				
	106.13	Junction Box Displacement Quantities for 48" - 72" Pipe Culverts				
SL-1	106.14	Typical Concrete Safety Slab for Drop Inlets, Manholes & Junction Boxes	7/05			
PB-1	107.00	Installation of Pipe Culverts and Storm Sewers Circular Pipe Bedding and Backfill - Notes	New 1/04			
	107.01	Installation of Pipe Culverts and Storm Sewers Circular Pipe Bedding and Backfill - Method "A"	1/04	7/05		
	107.02	Installation of Pipe Culverts and Storm Sewers Elliptical Pipe Bedding and Backfill - Method "A"	1/04	7/04	7/05	
	107.03	Installation of Pipe Culverts and Storm Sewers Pipe Arch Bedding and Backfill	1/04	7/05		
	107.04	Installation of Box Culvert Bedding and Backfill Method "A"	1/04			
PC-1	107.05	Concrete Pipe - Class Table for H-20 Live Load	7/01	7/05		
	107.06	Elliptical Concrete Pipe - Table for H-20 Live Load	7/05			
	107.07	Corrugated Steel Pipe - Height of Cover Table for H-20 Live Load	7/05			
	107.08	Corrugated Aluminum Alloy Pipe - Height of Cover Table for H-20 Live Load	7/05			
	107.09	Corrugated Aluminum Alloy Pipe - Height of Cover Table for H-20 Live Load	7/05			
	107.10	Corrugated Steel Pipe Arch - Height of Cover Table for H-20 Live Load	7/05			
	107.11	Corrugated Aluminum Alloy Pipe Arch - Height of Cover Table for H-20 Live Load	7/05			
	107.12	Structural Plate Steel Pipe - Height of Cover Table for H-20 Live Load	7/05			
	107.13	Structural Plate Aluminum Alloy Pipe - Height of Cover Table for H-20 Live Load	7/05			
	107.14	Structural Plate Steel Pipe Arch- Height of Cover Tables for H-20 Live Load	7/05			

Standard	Page	Title	Revised	Revised	Revised	Revised
PC-1	107.15	Structural Plate Steel Pipe Arch - Height of Cover Table for H-20 Live Load	7/05			
	107.16	Structural Plate Aluminum Alloy Pipe Arch - Height of Cover Table for H-20 Live Load	7/05			
	107.17	Aluminum Spiral Rib Pipe - Height of Cover Table for H-20 Live Load	7/05			
	107.18	Steel Spiral Rib Pipe - Height of Cover Table for H-20 Live Load	7/05			
	107.19	Cast Iron Pipe - Strength Table for H-20 Live Load	7/05			
	107.20	Vitrified Clay and Plastic Pipe - Maximum Cover Table for H-20 Live Load	7/01	7/05		
	107.20A	Allowable pipe criteria for culverts & storm sewers	New 7/05			
	107.21	Allowable pipe criteria for culverts & storm sewers	7/05			
PP-1	107.22	Details for Backfilling Abandoned Culverts				
UD-1	108.01	Standard Groundwater Underdrain	7/03	2/06		
UD-2	108.02	Pipe Underdrain for Use with Raised Grass Median Strips	7/03	2/06		
UD-3	108.03	Standard Sidewalk Underdrain	7/03	2/06		
CD-1	108.04	Standard Combination Underdrains (at Lower End of Cuts)	7/03			
CD-2	108.05	Standard Combination Underdrains (at Grade Sags and Bridge Approaches)	7/03			
UD-4	108.06	Standard Pavement Edgedrain	7/03	1/04		
UD-4	108.07	Standard Pavement Edgedrain	7/03	2/06		
UD-5	108.08	Prefabricated Geocomposite Retrofit Pavement Edgedrain				
UD-7	108.09	Standard Retrofit Edgedrain	7/03	2/06		
PG-2A	109.01	Standard Paved Ditches	7/02	7/04		
PG-3	109.01a	Standard Rip Rap Ditch and Slope Protection	New 7/03			
PG-4	109.02	Standard Paved Flume for 12" - 24" Pipe Culverts				
PG-5	109.03	Standard Paved Ditches				
PG-6A, 6B	109.04	Standard Precast Paved Ditches				
PG-7	109.05	Ditch Flume Connector	7/02			
SB-1	110.01	Standard Spring Box	7/01	3/03		
SB-1 PC	110.02	Precast Spring Box	7/01	3/03		
EG-1, 1A	111.01	Standard Energy Dissipator for use with Paved Flume				
EG-1, 1A PC	111.02	Precast Energy Dissipator				
PS-2	112.01	Standard Pipe Spillout for 12"-18" Pipe Culverts				
PS-3	112.02	Standard Pipe Spillout for 21"-30" Pipe Culverts				
TD-CL	113.01	Temporary Diversion Channel & Acceptable Linings				
EC-1	114.01	Stone for Erosion Control				
EC-2	114.02	Protective Covering Installation Criteria				
EC-3	114.03	Soil Stabilization Criteria	7/05			
EC-3	114.04	Soil Stabilization Mat Slope Installation				

Standard	Page	Title	Revised	Revised	Revised	Revised
EC-4	114.05	Rock Check Dams Type I & II				
EC-5	114.06	Temporary Silt Fence and Filter Barrier	3/03			
EC-6	114.07	Drop Inlet Silt Trap (Type A and B)	7/01	3/03		
EC-7	114.08	Typical Sediment Trap				
EC-8	114.09	Dewatering Basin				
EC-9	114.10	Temporary Diversion Dike				
ESC-INS	115.01	Temporary Erosion & Siltation Control	3/03	1/04	7/04	
	115.02	Temporary Erosion & Siltation Control				
	115.03	Temporary Erosion & Siltation Control				
SWM-1	116.01	Cast-In-Place Stormwater Management Drainage Structure	3/03			
	116.02	Precast Stormwater Management Drainage Structure	3/03			
	116.03	Stormwater Management Drainage Structure (SWM) Details	VOID 3/03			
SWM-DR	116.04	Stormwater Management (SWM) Details	3/03			
	116.05	Stormwater Management (SWM) Details	3/03			
	116.06	Stormwater Management (SWM) Details	3/03			
	116.07	Stormwater Management (SWM) Details	New 3/03			
	116.08	Stormwater Management (SWM) Details	New 3/03			

Section 200

Standard	Page	Title	Revised	Revised	Revised	Revised
CG-2	201.01	Standard 6" Curb				
CG-3	201.02	Standard 4" Curb				
CG-6	201.03	6" Combination Curb & Gutter				
CG-7	201.04	4" Combination Curb & Gutter				
MC-3, 3A	201.05	Asphalt Concrete Curb and Median for Temporary or Permanent Installation				
MC-3B, 3C	201.06	Asphalt Concrete Curb and Median for Temporary or Permanent Installation				
MC-4	201.07	Asphalt Curb and Gutter and Asphalt Paving Under Guardrail				
	201.08	Asphalt Curb and Gutter and Asphalt Paving Under Guardrail				
MC-1	202.01	Concrete Median Curb				
MS-1	202.02	Standard Solid Concrete Raised Median Strip	7/04			
MS-1A	202.03	Standard Solid Concrete Raised Median Strip	7/01	7/04		
MS-2	202.04	Standard Raised Grass Median Strips				
MS-4	202.05	Standard Raised Asphalt Median with P.C. Concrete Curb				
CG-9A	203.01	Standard Entrance Gutter with Flared Opening for Use Across Sidewalk	2/06			
CG-9B	203.02	Standard Entrance Gutter For Use With Unpaved Space Between Curb & Gutter	1/04	2/06		
CG-9D	203.03	Standard Entrance Gutter	1/04	2/06		

Standard	Page	Title	Revised	Revised	Revised	Revised
CG-11	203.04	Method of Treatment - Connection for Street Intersections and Commercial Entrances	7/01			
CG-12	203.05	Perpendicular Curb Ramp (Access for Mobility Impairments)	7/01	3/03	1/04	7/05
CG-12	203.05A	Detectable Warning Surface Type A (Perpendicular) Application	New 7/05			
CG-12	203.06	Parallel Curb Ramp (Access for Mobility Impairments)	3/03	1/04	7/04	7/05
CG-12	203.07	Combination (Parallel & Perpendicular) Curb Ramp (Access for Mobility Impairments)	7/01	3/03	1/04	7/04
			7/05			
CG-13	203.08	Commercial Entrance (Heavy Truck Traffic)	3/03	1/04	2/06	

Section 300

Standard	Page	Title	Revised	Revised	Revised	Revised
PR-2	301.01	Plain and Reinforced Concrete Pavement Showing Reinforcement, Longitudinal and Transverse Joints	7/02			
	301.02	Plain and Reinforced Concrete Pavement Showing Reinforcement, Longitudinal and Transverse Joints	7/03			
	301.03	Plain and Reinforced Concrete Pavement Showing Reinforcement, Longitudinal and Transverse Joints	7/03			
	301.04	Standard Load Transfer Assembly Contraction Joint				
	301.05	Standard Load Transfer Assembly Expansion Joint				
PR-3	301.06	8" Continuously Reinforced Concrete Pavement (Wire Mesh Reinforcement)				
	301.07	8" Continuously Reinforced Concrete Pavement (Steel Bar Reinforcement)				
	301.08	8" Continuously Reinforced Concrete Pavement (for use with Bar or Wire Mesh Reinforcement)				
	301.09	8" Continuously Reinforced Concrete Pavement (Leave out Joint Detail)				
PR-4	301.10	9" Continuously Reinforced Concrete Pavement (Steel Bar Reinforcement)				
	301.11	9" Continuously Reinforced Concrete Pavement (for use with Bar Reinforcement only)				
	301.12	9" Continuously Reinforced Concrete Pavement (Leave Out Joint Detail)				
PR-5	301.13	9" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			

Standard	Page	Title	Revised	Revised	Revised	Revised
PR-5	301.14	9" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03	1/04		
	301.15	9" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
PR-6	301.16	10" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
	301.17	10" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03	1/04		
	301.18	10" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
PR-7	301.19	11" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
	301.20	11" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03	1/04		
	301.21	11" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
PR-8	301.22	12" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
	301.23	12" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03	1/04		
	301.24	12" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
PR-9	301.25	13" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
	301.26	13" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03	1/04		
	301.27	13" Continuously Reinforced Concrete Pavement 14 Foot Travel Lane	7/03			
XJ-1	302.01	Bridge Approach Expansion Joint (for Widening or Maintenance of Existing XJ-1 Only)				
	302.02	Bridge Approach Expansion Joint (Installation Criteria)				
WP-1	303.01	Method of Widening Pavement at Bridge Approaches				
RS-1	304.01	Rumble Strips (Asphalt Shoulder)	3/03			
RS-2	304.02	Rumble Strips (Concrete Shoulder)	VOID 3/03			

Section 400

Standard	Page	Title	Revised	Revised	Revised	Revised
RW-2	401.01	Concrete Gravity Retaining Walls - Level Backfill				
RW-3	401.02	Concrete Gravity Retaining Walls Infinite Surcharge and Deck Surcharge -Loaded	7/01	7/02	7/04	
RW-2,3	401.03	Suggested Rustication Treatments for Retaining Walls				
CW-1	402.01	Standard Reinforcing Concrete Crib Wall				
	402.02	Standard Reinforcing Concrete Crib Wall				

Section 500

Standard	Page	Title	Revised	Revised	Revised	Revised
GR-HDW	501.01	Standard Guardrail Hardware				
	501.02	Standard Guardrail Hardware				
	501.03	Standard Guardrail Hardware				
GR-2, 2A	501.04	Standard Blocked-Out W Beam Guardrail (Strong Post)	7/05			
	501.05	Standard Blocked-Out W Beam Guardrail (Strong Post)	7/01	7/03		
GR-3	501.06	Cable Guardrails	7/03	7/04		
	501.07	Cable Guardrails				
	501.08	Cable Guardrails	7/04			
GR-6	501.09	Terminal Treatment for W Beam Guardrail	7/01	7/02	7/03	2/06
	501.10	Terminal Treatment for W Beam Guardrail	7/01	3/03	7/03	7/04
GR-7	501.11	Breakaway Cable Terminal - 4' Flare	7/02	7/03	7/04	
	501.12	Breakaway Cable Terminal - 4' Flare	7/02	VOID 7/04		
	501.13	Breakaway Cable Terminal - 4' Flare	7/04			
GR-8, 8A, 8B, 8C	501.14	Standard W Beam Guardrail (Weak Post System)	7/01	7/03		
	501.15	Standard W Beam Guardrail (Weak Post System)	7/01	1/04		
GR-SP	501.16	Guardrail Terminal Installation Site Preparation Requirements for GR-7	7/01	7/04	2/06	
	501.17	Guardrail Terminal Installation Site Preparation Requirements for GR-9	7/01	2/06		
GR-9	501.18	Alternate Breakaway Cable Terminal - No Flare	7/02	7/03	7/04	
GR-10	501.19	Guardrail at Low-Fill Culvert	1/04			
	501.20	Guardrail at Low-Fill Culvert	1/04			
GR-11	501.21	Trailing End Terminal Treatment	7/02	3/03	7/03	7/05
BGR-01	501.22	Standard Box Culvert Guardrail (Texas T-6)				
	501.23	Standard Box Culvert Guardrail (Texas T-6)				
	501.24	Standard Box Culvert Guardrail (Texas T-6)				
GR-FOA-1	501.25	W Beam Guardrail-Fixed Object Attachment For Use With Vertical Fixed Objects and Guardrail (Wood Posts)	7/01			
	501.26	W Beam Guardrail-Fixed Object Attachment For Use With Vertical Fixed Objects and Guardrail (Steel Posts)	7/01			
	501.27	W Beam Guardrail-Fixed Object Attachment Rubrail and Hardware Details	7/01			
GR-FOA-2	501.28	W Beam Guardrail-Fixed Object Attachment For Use Between Safety Shape and Guardrail (Wood Posts)	7/01			
	501.29	W Beam Guardrail-Fixed Object Attachment For Use Between Safety Shape - Steel Posts	7/01			
GR-FOA-2 & 4	501.30	W Beam Guardrail-Fixed Object Attachment Rubrail and Hardware Details	7/01			

Standard	Page	Title	Revised	Revised	Revised	Revised
GR-FOA-4	501.31	Blocked-Out W-Beam Median Barrier - Fixed Object Attachment For Use Between MB-7 & MB-3				
GR-FOA-4	501.32	Blocked-Out W-Beam Median Barrier - Fixed Object Attachment Rubrail and Hardware Details				
GR-INS	501.33	W Beam Guardrail Installation Criteria (At Bridge Piers)	7/02	3/03		
	501.34	W Beam Guardrail Installation Criteria (At Dual Bridges)	7/01	3/03		
	501.35	W Beam Guardrail Installation Criteria				
	501.36	W Beam Guardrail Installation Criteria				
	501.37	W Beam Guardrail Installation Criteria				
	501.38	W Beam Guardrail Installation Criteria	7/03	7/05		
	501.39	W Beam Guardrail Installation Criteria	7/01	1/04		
501.40	W Beam Guardrail and Median Barrier Installation Criteria	7/01				
MB-3	501.41	Blocked-Out W Beam Median Barrier	1/04			
MB-5	501.42	Standard W Beam Median Barrier (Weak Post System)	7/01	7/03	7/05	
	501.43	Standard W Beam Median Barrier (Weak Post System)				
MB-7D, 7E, 7F	501.44	Concrete Median Barrier	1/04	7/05		
MB-7D PC	501.45	Precast Traffic Barrier Concrete Service	1/04	7/05		
	501.46	Precast Traffic Barrier Concrete Service	7/05			
MB-8A	501.47	Concrete Median Barrier with F Shape Type I, II, or III	1/04			
	501.48	Concrete Median Barrier with F Shape Type I, II, or III				
MB-9A	501.49	Cast In Place Concrete Median Barrier 12 Foot Terminal Section				
MB-9A PC	501.50	Precast Concrete Median Barrier 12 Foot Terminal Section				
MB-10A	501.51	Traffic Barrier Service Concrete Parapet (Single Face) (For Temporary Installation on Bridge Deck Exterior)	7/02			
	501.52	Traffic Barrier Service Concrete Parapet (Single Face) (For Temporary Installation on Bridge Deck Exterior)	7/02			
MB-11A	501.53	Traffic Barrier Service Concrete Parapet (Double Face) (For Temporary Installation on Bridge Deck Exterior)				
	501.54	Traffic Barrier Service Concrete Parapet (Double Face) (For Temporary Installation on Bridge Deck Exterior)				
MB-12A, B, C	501.55	Concrete Median Barrier (Tall Wall)	7/04			
	501.56	Concrete Median Barrier (Tall Wall)	1/04			
MB-13	501.57	Concrete Median Barrier Type I, II, or III				

Standard	Page	Title	Revised	Revised	Revised	Revised
MB-13	501.58	Concrete Median Barrier Type I, II, or III	1/04			
MB-INS	501.59	Precast Concrete Median Barrier Positive Connection Options	7/05			
	501.60	Precast Concrete Median Barrier Positive Connection Options	7/05			
	501.61	Precast Concrete Median Barrier Positive Connection Options	7/05			
	501.62	Butting Traffic Barrier Service to Single Face Parapet Service	7/02			
	501.63	Butting Traffic Barrier Service to Single Face Parapet Service	7/02			
FOA-CZ	501.64	W-Beam Guardrail Installation Criteria Fixed Object Attachment Methods For Construction Zones				
FE	502.01	Standard Fence General Notes				
FE-W1, W2	502.02	Standard Fence Woven Wire Fabric	7/04			
FE-B	502.03	Standard Fence Barbed Wire	7/04			
FE-CL	502.04	Standard Fence Chain Link	7/03	1/04	7/04	
FE-G	502.05	Standard Fence Gates				
FE-4	502.06	Water Gates in Fence Lines				
FE-6	502.07	Standard Method of Fence Grounding	1/04	7/04		
RM-1	503.01	Standard Plan and Method of Setting Right of Way Monuments				
RM-2	503.02	Standard Plan and Method of Setting Right of Way Monuments				

Section 600

Standard	Page	Title	Revised	Revised	Revised	Revised
S-1	601.01	Standard Concrete Steps for 1½ : 1 Slopes	7/02			
	601.02	Standard Concrete Steps for 1½ : 1 Slopes				
S-2	601.03	Standard Concrete Steps for 2: 1 Slopes	7/02			
	601.04	Standard Concrete Steps for 2: 1 Slopes				
HR-1	601.05	Standard Handrail Method of Locating and Erecting	7/04			
LR-1	601.06	Minimum Design for Small Boat Launching Ramps at Public Landings				
SP-1	601.07	Settlement Plate				
SI-1,2,3	602.01	Standard Plan for Sign Islands				
PE-1	602.02	Standard Private Entrances	7/05			
CR-1	602.03	Standard Maintenance Crossover for use on Freeways				
RFD-1	603.01	Standard Mailbox	7/03	7/04		
RFD-1	603.02	Standard Mailbox	New 7/03	1/04	7/04	
G-3	604.01	Precast Concrete Cattle Guard				
G-3A	604.02	Precast Concrete Cattle Guard				

Standard	Page	Title	Revised	Revised	Revised	Revised
NG-1	605.01	Storage Facility for Nuclear Gauge	2/06			
RU-1	606.01	Methods of Undercutting Rock				
SS-1	607.01	Standard Method of Setting and Marking Slope Stakes				
SD-1	608.01	Sight Distances on Horizontal Curves Height of Eye 3.5 Feet; Height of Object 0.5 and 4.25 Feet	2/06			
SD-2	608.02	Sight Distance on Vertical Curves				
	608.03	Sight Distance on Vertical Curves				
SD-3	608.04	Sight Distance on Vertical Curves				
	608.05	Sight Distance on Vertical Curves				
SD-4	608.06	Stopping Sight Distance on Crest Vertical Curves	New 10/02	2/06		
	608.07	Stopping Sight Distance on Crest Vertical Curves	New 10/02	2/06		
SD-5	608.08	Passing Sight Distance on Crest Vertical Curves	New 10/02	2/06		
	608.09	Passing Sight Distance on Crest Vertical Curves	New 10/02	2/06		

Section 700

Standard	Page	Title	Revised	Revised	Revised	Revised
CS-1, 1A	701.00	Typical Methods of Grading Side Slopes				
CS-2	701.01	Suggested Drainage Treatment at Beginning of Fills				
CS-2A	701.02	Typical Methods of Grading Side Slopes				
CS-3	701.03	Typical Methods of Grading Side Slopes				
CS-3A	701.04	Typical Methods of Grading Side Slopes				
CS-3B	701.05	Typical Methods of Grading Side Slopes				
CS-4	701.06	Typical Methods of Grading Side Slopes				
CS-4A	701.07	Typical Methods of Grading Side Slopes				
CS-4B	701.08	Typical Methods of Grading Side Slopes				
CS-4C	701.09	Typical Methods of Grading Side Slopes				
CS-4E	701.10	Typical Methods of Grading Side Slopes				
GS-10	702.00	Minimum Design Criteria for Temporary Detour (Maintenance of Traffic)	3/03			
GS-11	702.01	Standard Shoulder Design for All Systems Except Local Roads and Streets	7/01	3/03		
GS-12	702.02	Standard Shoulder Designs for Local Roads and Streets	3/03			
GS-13	702.03	Standard Graded Median Designs				

Section 800

Standard	Page	Title	Revised	Revised	Revised	Revised
TC-5	801.01	Transition Curves for Rural and Urban Highways and Street Conditions				
	801.02	Explanation of Tables and Instructions for use - Urban Condition				
	801.03	Explanation of Tables and Instructions for use - Rural Condition				
	801.04	Explanation of Tables and Instructions for use - General Condition				
	801.05	Details for Transitioned Baseline Rural Condition With Pavement Widening				
	801.06	Details for Non-Transitioned Baseline Urban Conditions and Rural Condition Without Pavement Widening				
	801.07	Details of Superelevation About Baseline				
	801.08	Details of Superelevation About Baseline				
	801.09	Example for Four Lane Roadways				
	801.10	Cross Section - Four Lane Roadway				
	801.11	Method of Applying TC-5 on Compound and Reverse Curves Rural Condition Only With Pavement Widening				
	801.12	Crown Transition/Crown Runoff (CR) Table	7/01			
	801.13	Table 1				
	801.14	Table 2				
	801.15	Design Superelevation Rates Urban Conditions				
	801.16	Design Superelevation Rates Rural Conditions				
	801.17	Methodologies for Calculating TC-5 Values for Urban Low-Speed Streets				
	801.18	Methodologies for Calculating TC-5 Values				
	801.19	Calculated TC-5 Examples				
	801.20	Summary of Standard TC-5ULS (Urban Low Speed) Design Factors				
	801.21	Design Factors for a Design Speed of 20 mph (Urban)				
	801.22	Design Factors for a Design Speed of 25 mph (Urban)				
	801.23	Design Factors for a Design Speed of 30 mph (Urban)				
	801.24	Design Factors for a Design Speed of 35 mph (Urban)				
	801.25	Design Factors for a Design Speed of 40 mph (Urban)				
	801.26	Design Factors for a Design Speed of 45 mph (Urban)				
	801.27	Design Factors for a Design Speed of 50 mph (Urban)				
	801.28	Design Factors for a Design Speed of 55 mph (Urban)				
	801.29	Design Factors for a Design Speed of 60 mph (Urban)				

Standard	Page	Title	Revised	Revised	Revised	Revised
TC-5	801.30	Design Factors for a Design Speed of 20 mph (Rural)				
	801.31	Design Factors for a Design Speed of 25 mph (Rural)				
	801.32	Design Factors for a Design Speed of 30 mph (Rural)				
	801.33	Design Factors for a Design Speed of 35 mph (Rural)				
	801.34	Design Factors for a Design Speed of 40 mph (Rural)				
	801.35	Design Factors for a Design Speed of 45 mph (Rural)				
	801.36	Design Factors for a Design Speed of 50 mph (Rural)				
	801.37	Design Factors for a Design Speed of 55 mph (Rural)				
	801.38	Design Factors for a Design Speed of 60 mph (Rural)				
	801.39	Design Factors for a Design Speed of 65 mph (Rural)				
	801.40	Design Factors for a Design Speed of 70 mph (Rural)				
TC-5.01	802.01	Transition Curves for Rural and Urban Highways and Street Conditions	New 10/02			
	802.02	Explanation of Tables and Instructions for use - Urban Condition	New 10/02			
	802.03	Explanation of Tables and Instructions for use - Rural Condition	New 10/02			
	802.04	Explanation of Tables and Instructions for use - General Condition	New 10/02			
	802.05	Details for Transitioned Baseline Rural Condition With Pavement Widening	New 10/02			
	802.06	Details for Non-Transitioned Baseline Urban Conditions and Rural Condition Without Pavement Widening	New 10/02			
	802.07	Details of Superelevation About Baseline	New 10/02			
	802.08	Details of Superelevation About Baseline	New 10/02			
	802.09	Example for Four Lane Roadways	New 10/02			
	802.10	Cross Section - Four Lane Roadway	New 10/02			
	802.11	Method of Applying TC-5.01 on Compound Curves Rural Condition With Pavement Widening	New 10/02			
	802.12	Method of Applying TC-5.01 on Reverse Curves Rural Condition With Pavement Widening	New 10/02			
	802.13	Method of Applying TC-5.01 on Compound Curves Urban & Rural Condition Without Pavement Widening	New 10/02	3/03		
	802.14	Method of Applying TC-5.01 on Reverse Curves Urban & Rural Condition Without Pavement Widening	New 10/02	3/03		

Standard	Page	Title	Revised	Revised	Revised	Revised
TC-5.01	802.15	Blank Sheet				
	802.16	Crown Transition/Crown Runoff (CR) Table	New 10/02			
	802.17	Table 1	New 10/02			
	802.18	Table 2	New 10/02			
	802.19	Design Superelevation Rates Urban Condition	New 10/02			
	802.20	Design Superelevation Rates Rural Conditions	New 10/02			
	802.21	Methodologies for Calculating TC-5.01 Values for Urban Low-Speed Streets	New 10/02	7/03	7/05	VOID 7/05
TC-5.04	802.21A	Methodologies for Calculating TC-5.04 Values for Urban Low-Speed Streets	New 2/06			
TC-5.01	802.22	Methodologies for Calculating TC-5.01 Values	New 10/02	3/03		
	802.23	Calculated TC-5.01 Examples	New 10/02			
	802.24	Summary of Standard TC-5.01 ULS (Urban Low Speed) Design Factors	New 10/02	7/05	VOID 7/05	
TC-5.04	802.24A	Summary of Standard TC-5.04 ULS (Urban Low Speed) Design Factors	New 2/06			
TC-5.01	802.25	Design Factors for a Design Speed of 20 mph (Urban)	New 10/02			
	802.26	Design Factors for a Design Speed of 25 mph (Urban)	New 10/02			
	802.27	Design Factors for a Design Speed of 30 mph (Urban)	New 10/02			
	802.28	Design Factors for a Design Speed of 35 mph (Urban)	New 10/02			
	802.29	Design Factors for a Design Speed of 40 mph (Urban)	New 10/02			
	802.30	Design Factors for a Design Speed of 45 mph (Urban)	New 10/02			
	802.31	Design Factors for a Design Speed of 50 mph (Urban)	New 10/02			
	802.32	Design Factors for a Design Speed of 55 mph (Urban)	New 10/02			
	802.33	Design Factors for a Design Speed of 60 mph (Urban)	New 10/02			
	802.34	Design Factors for a Design Speed of 20 mph (Rural)	New 10/02	3/03	1/04	
	802.35	Design Factors for a Design Speed of 25 mph (Rural)	New 10/02	3/03	1/04	
	802.36	Design Factors for a Design Speed of 30 mph (Rural)	New 10/02	3/03		
	802.37	Design Factors for a Design Speed of 35 mph (Rural)	New 10/02	3/03	1/04	
	802.38	Design Factors for a Design Speed of 40 mph (Rural)	New 10/02	3/03		
	802.39	Design Factors for a Design Speed of 45 mph (Rural)	New 10/02	3/03		
	802.40	Design Factors for a Design Speed of 50 mph (Rural)	New 10/02	3/03		
	802.41	Design Factors for a Design Speed of 55 mph (Rural)	New 10/02	3/03		
	802.42	Design Factors for a Design Speed of 60 mph (Rural)	New 10/02	3/03		

Standard	Page	Title	Revised	Revised	Revised	Revised
	802.43	Design Factors for a Design Speed of 65 mph (Rural)	New 10/02	3/03		
	802.44	Design Factors for a Design Speed of 70 mph (Rural)	New 10/02	3/03		

Appendix

Standard	Page	Title	Revised	Revised	Revised	Revised
	A-1	Conversion Table - Inches and Fractions of an Inch in Decimals of a Foot				
	A-2	Standard Reinforcing Bars				
	A-3	Parabolic Vertical Curve Computations				
	A-4	Metric Conversion Factors				