

## Table of Contents

Table of Contents. . . . .	i
Introduction . . . . .	1
Index 199 Geotextile Criteria (Rev. 07/13). . . . .	3
Index 289 Concrete Box Culvert Details (LRFD) (Rev. 07/13). . . . .	4
Index 291 Supplemental Details for Precast Concrete Box Culverts (Rev. 07/13) . . . . .	8
Index 292 Standard Precast Concrete Box Culverts (Rev. 07/13). . . . .	9
Index 302 Traffic Separators . . . . .	10
Index 304 Detectable Warnings and Sidewalk Curb Ramps (Rev. 07/13). . . . .	11
Index 402 Guardrail Transitions and Connections for Existing Bridges. . . . .	20
Index 403 Guardrail Transitions for Existing Bridge Traffic Railing Retrofits . . . . .	38
Index 404 Guardrail Transitions - Existing Post & Beam Bridge Railings (Narrow & Recessed Curbs) (Rev. 07/13). . . . .	40
Index 405 Guardrail Transitions - Existing Post & Beam Bridge Railings (Wide Curbs) (Rev. 07/13) . . . . .	44
Index 411 Pier Protection Barrier. . . . .	51
Index 414 Type K Temporary Concrete Barrier System . . . . .	53
Index 420 Traffic Railing (32" F Shape). . . . .	55
Index 421 Traffic Railing (Median 32" F Shape) . . . . .	57
Index 422 Traffic Railing (42" Vertical Shape). . . . .	58
Index 423 Traffic Railing (32" Vertical Shape). . . . .	60
Index 424 Traffic Railing (Corral Shape) . . . . .	62
Index 425 Traffic Railing (42" F Shape). . . . .	64
Index 430 Crash Cushion Details (Rev. 07/13) . . . . .	66
Index 470 Series Traffic Railing - (Thrie Beam Retrofit) (Rev. 07/13) . . . . .	68
Index 477 Thrie-Beam Panel Retrofit (Concrete Handrail) (Rev. 07/13) . . . . .	80
Index 480 Series Traffic Railing - (Vertical Face Retrofit) (Rev. 07/13). . . . .	83
Index 501 Geosynthetic Reinforced Soils . . . . .	93
Index 521 Concrete Steps . . . . .	95
Index 700 Roadside Offsets (Rev. 07/13) . . . . .	96
Index 810 Bridge Fencing (Vertical) (Rev. 07/13) . . . . .	97
Index 811 Bridge Fencing (Curved Top) (Rev. 07/13). . . . .	99
Index 812 Bridge Fencing (Enclosed) (Rev. 07/13). . . . .	101
Index 820 Pedestrian/Bicycle Bullet Railing. . . . .	103

Index 821 Aluminum Pedestrian/Bicycle Bullet Railing for Traffic Railing (32" F Shape)	104
Index 822 Aluminum Pedestrian/Bicycle Bullet Railing Details . . . . .	105
Index 825 42" Concrete Pedestrian/Bicycle Railing. . . . .	106
Index 851 Bridge Pedestrian/Bicycle Railing (Steel) (Rev. 07/13) . . . . .	107
Index 852 Steel Pedestrian/Bicycle Railing (Rev. 07/13) . . . . .	108
Index 861 Bridge Pedestrian/Bicycle Railing (Aluminum) (Rev. 07/13) . . . . .	113
Index 862 Aluminum Pedestrian/Bicycle Railing (Rev. 07/13) . . . . .	114
Index 870 Aluminum Pipe Guiderail. . . . .	119
Index 880 Steel Pipe Guiderail . . . . .	120
Index 5200 Precast Noise Walls (Rev. 07/13) . . . . .	121
Index 5210 Traffic Railing/Noise Wall (8'-0") (Rev. 07/13) . . . . .	133
Index 5211 Traffic Railing/Noise Wall (14'-0") (Rev. 07/13) . . . . .	137
Index 5212 Traffic Railing/Noise Wall (8'-0") Junction Slab (Rev. 07/13) . . . . .	139
Index 5213 Traffic Railing/Noise Wall T-Shaped Spread Footing (Rev. 07/13) . . . . .	140
Index 5214 Traffic Railing/Noise Wall L-Shaped Spread Footing (Rev. 07/13) . . . . .	141
Index 5215 Traffic Railing/Noise Wall Trench Footing (Rev. 07/13) . . . . .	142
Index 6010 C-I-P Cantilever Retaining Wall (Rev. 07/13) . . . . .	143
Index 6011 C-I-P Gravity Wall (Rev. 07/13) . . . . .	147
Index 6020 Permanent MSE Retaining Wall Systems (Rev. 07/13) . . . . .	149
Index 6030 Temporary MSE Retaining Wall Systems (Rev. 07/13) . . . . .	152
Index 6040 Precast Concrete Sheet Pile Wall (Rev. 07/13) . . . . .	155
Index 6100 Series Wall Copings and Traffic Railings/Junction Slabs (Rev. 07/13) . . . . .	161
Index 11200 Multi-Column Ground Sign (Rev. 07/13) . . . . .	163
Index 11310 Cantilever Sign Structure (Rev. 07/13) . . . . .	164
Index 11320 Span Sign Structure (Rev. 07/13) . . . . .	168
Index 11860 Single Column Ground Signs (Rev. 07/13) . . . . .	171
Index 11870 Single Post Bridge Mounted Sign Support (Rev. 07/13) . . . . .	172
Index 11871 Single Post Median Barrier Mounted Sign Support (Rev. 07/13) . . . . .	173
Index 17502 High Mast Lighting (Rev. 07/13) . . . . .	174
Index 17515 Standard Aluminum Lighting (Rev. 07/13) . . . . .	175
Index 17723 Steel Strain Pole (Rev. 07/13) . . . . .	177
Index 17725 Concrete Poles (Rev. 07/13) . . . . .	178
Index 17743 Standard Mast Arm "D" & "E" Assemblies (Rev. 07/13) . . . . .	181
Index 17745 Mast Arm Assemblies (Rev. 07/13) . . . . .	193

Index 18111 Steel CCTV Pole (Rev. 07/13) . . . . .	199
Index 18113 Concrete CCTV Pole (Rev. 07/13) . . . . .	200
Index 20005 Prestressed I-Beam Temporary Bracing (Rev. 07/13) . . . . .	201
Index 20010 Series Prestressed Florida-I Beams (Rev. 07/13) . . . . .	205
Index 20120 AASHTO Type II Beams (Rev. 07/13) . . . . .	216
Index 20199 Build-Up and Deflection Data for Prestressed I-Beams (Rev. 07/13) . .	222
Index 20210 Series Florida-U Beams . . . . .	224
Index 20299 Build-Up and Deflection Data for Florida-U Beams. . . . .	234
Index 20502 Beveled Bearing Plate Details Prestressed Florida-U Beams . . . . .	236
Index 20510 Composite Elastomeric Bearing Pads-Prestressed Florida-I and AASHTO Type II Beams (Rev. 07/13) . . . . .	243
Index 20511 Bearing Plates (Type 1) - Prestressed Florida-I and AASHTO Type II Beams (Rev. 07/13) . . . . .	248
Index 20512 Bearing Plates (Type 2)- Prestressed Florida-I and AASHTO Type II Beams (Rev. 07/13) . . . . .	251
Index 20600 Series Concrete Piles (Rev. 07/13) . . . . .	254
Index 20654 54" Precast / Post-Tensioned Concrete Cylinder Pile (Rev. 07/13) . . .	263
Index 20660 60" Prestressed Concrete Cylinder Pile (Rev. 07/13) . . . . .	266
Index 20900 Approach Slabs (Flexible Pavement Approaches) (Rev. 07/13) . . . . .	269
Index 20910 Approach Slabs (Rigid Pavement Approaches) (Rev. 07/13) . . . . .	271
Index 21100 Strip Seal Expansion Joint (Rev. 07/13) . . . . .	273
Index 21110 Poured Joint with Backer Rod Expansion Joint System (Rev. 07/13) . .	278
Index 21200 Light Pole Pedestal . . . . .	280
Index 21210 Conduit Details (Rev. 07/13) . . . . .	281
Index 21220 Navigation Light System Details (Fixed Bridges) . . . . .	283
Index 21240 Maintenance Lighting For Box Girders . . . . .	284
Index 21250 Series Access Hatch Assembly . . . . .	285
Index 21300 Standard Bar Bending Details. . . . .	286
Index 21600 Series Temporary Detour Bridge (Rev. 07/13) . . . . .	287
Index 21800 Series Post-Tensioning (Rev. 07/13) . . . . .	292
Index 21900 Fender System - Polymeric Piles (Rev. 07/13) . . . . .	297
Index 21930 Fender Systems - Prestressed Concrete Piles (Rev. 07/13) . . . . .	300
IDS - Revision History . . . . .	R-1