Table of Contents

Table of Contents i
Introduction 1
Index 289 Concrete Box Culvert Details (LRFD) (Rev. 07/12) 3
Index 291 Supplemental Details for Precast Concrete Box Culverts 7
Index 292 Standard Precast Concrete Box Culverts (Rev. 07/12) 8
Index 302 Traffic Separators 9
Index 402 Guardrail Transitions and Connections for Existing Bridges 10
Index 403 Guardrail Transitions for Existing Bridge Traffic Railing Retrofits 28
Index 411 Pier Protection Barrier 30
Index 414 Type K Temporary Concrete Barrier System 32
Index 420 Traffic Railing (32" F Shape) 34
Index 421 Traffic Railing (Median 32" F Shape) 36
Index 422 Traffic Railing (42" Vertical Shape) 37
Index 423 Traffic Railing (32" Vertical Shape) 39
Index 424 Traffic Railing (Corral Shape) 41
Index 425 Traffic Railing (42" F Shape) (Rev. 07/12) 43
Index 470 Series Traffic Railing - (Thrie Beam Retrofit) (Rev. 07/12) 45
Index 480 Series Traffic Railing - (Vertical Face Retrofit) 57
Index 501 Geosynthetic Reinforced Soils 67
Index 521 Concrete Steps 69
Index 810 Bridge Fencing (Vertical) 70
Index 811 Bridge Fencing (Curved Top) 72
Index 812 Bridge Fencing (Enclosed) 74
Index 820 Pedestrian/Bicycle Bullet Railing 76
Index 821 Aluminum Pedestrian/Bicycle Bullet Railing for Traffic Railing (32" F Shape) 77
Index 822 Aluminum Pedestrian/Bicycle Bullet Railing Details 78
Index 825 42" Concrete Pedestrian/Bicycle Railing 79
Index 851 Bridge Pedestrian/Bicycle Railing (Steel) 80
Index 852 Steel Pedestrian/Bicycle Railing 81
Index 861 Bridge Pedestrian/Bicycle Railing (Aluminum) 86
Index 862 Aluminum Pedestrian/Bicycle Railing 87
Index 870 Aluminum Pipe Guiderail 92
Index 880 Steel Pipe Guiderail 93
Index 5200 Precast Sound Barriers (Rev. 07/12) 94
Index 5210 Traffic Railing/Sound Barrier (8'-0") (Rev. 07/12) 105
Index 5211 Traffic Railing/Sound Barrier (14'-0") (Rev. 07/12) 109
Index 5212 Traffic Railing/Sound Barrier (8'-0") Junction Slab (Rev. 07/12) 111
Index 5213 Traffic Railing/Sound Barrier T-Shaped Spread Footing 112
Index 5214 Traffic Railing/Sound Barrier L-Shaped Spread Footing 113
Index 5215 Traffic Railing/Sound Barrier Trench Footing 114
Index 6010 C-I-P Cantilever Retaining Wall 115
Index 6011 C-I-P Gravity Wall 119

Index 6020 Permanent MSE Retaining Wall Systems 121
Index 6030 Temporary MSE Retaining Wall Systems 124
Index 6040 Precast Concrete Sheet Pile Wall (Rev. 07/12) 127
Index 6100 Series Wall Copings and Traffic Railings/Junction Slabs 133
Index 11200 Multi-Column Ground Sign (Rev. 07/12) 135
Index 11310 Cantilever Sign Structure (Rev. 07/12) 136
Index 11320 Span Sign Structure (Rev. 07/12) 140
Index 11860 Single Column Ground Signs 143
Index 11870 Single Post Bridge Mounted Sign Support 144
Index 11871 Single Post Median Barrier Mounted Sign Support (Rev. 07/12) 145
Index 17502 High Mast Lighting 146
Index 17515 Standard Aluminum Lighting 147
Index 17723 Steel Strain Pole 149
Index 17725 Concrete Poles 150
Index 17743 Standard Mast Arm "D" & "E" Assemblies (Rev. 07/12) 153
Index 17745 Mast Arm Assemblies (Rev. 07/12) 165
Index 20005 Prestressed I-Beam Temporary Bracing 171
Index 20010 Series Prestressed Florida-I Beams (Rev. 07/12) 175
Index 20199 Build-Up and Deflection Data for Florida-I Beams 186
Index 20210 Series Florida U Beams 188
Index 20299 Build-Up and Deflection Data for Florida U Beams 198
Index 20502 Beveled Bearing Plate Details Prestressed Florida U-Beams 200
Index 20510 Composite Elastomeric Bearing Pads - Prestressed Florida-I Beams . 207
Index 20511 Bearing Plates (Type 1) - Prestressed Florida-I Beams 212
Index 20512 Bearing Plates (Type 2)- Prestressed Florida-I Beams 215
Index 20600 Series Concrete Piles 218
Index 20654 54" Precast / Post-Tensioned Concrete Cylinder Pile 227
Index 20660 60" Prestressed Concrete Cylinder Pile 230
Index 20900 Approach Slabs (Flexible Pavement Approaches) 233
Index 20910 Approach Slabs (Rigid Pavement Approaches) 235
Index 21100 Strip Seal Expansion Joint 237
Index 21110 Poured Joint with Backer Rod Expansion Joint System 242
Index 21200 Light Pole Pedestal 244
Index 21210 Conduit Details 245
Index 21220 Navigation Light System Details (Fixed Bridges) 247
Index 21240 Maintenance Lighting For Box Girders 248
Index 21250 Series Access Hatch Assembly 249
Index 21300 Standard Bar Bending Details 250
Index 21600 Series Temporary Detour Bridge 251
Index 21800 Series Post-Tensioning 254
Index 21900 Fender System - Polymeric Piles (Rev. 07/12) 259
Index 21930 Fender Systems - Prestressed Concrete Piles 262
IDS - Revision History R-1