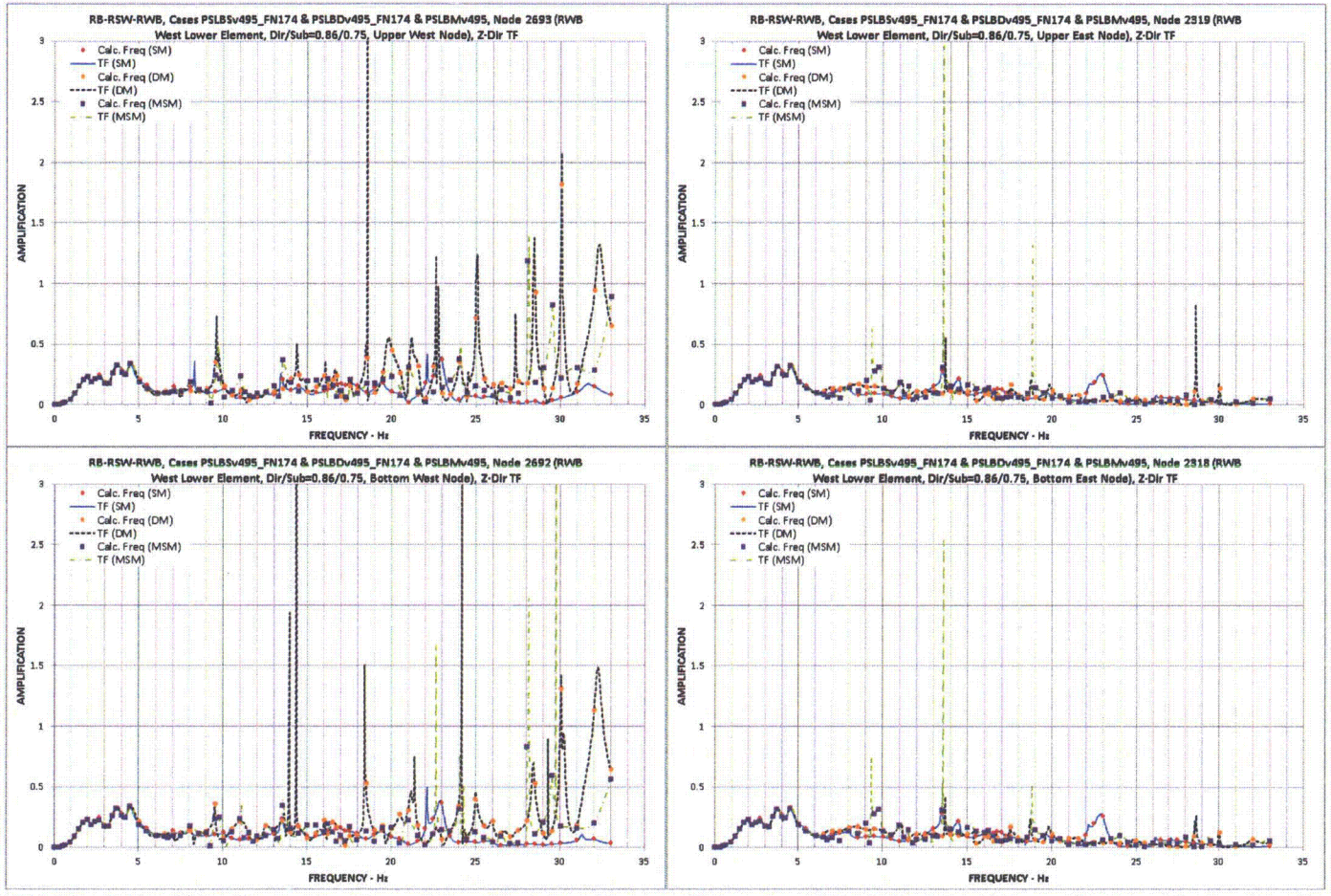

Figure 03.07.01-29 S1.104 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Lower, Dir/Sub Max Stress Ratio = 0.86/0.75, Z-Dir

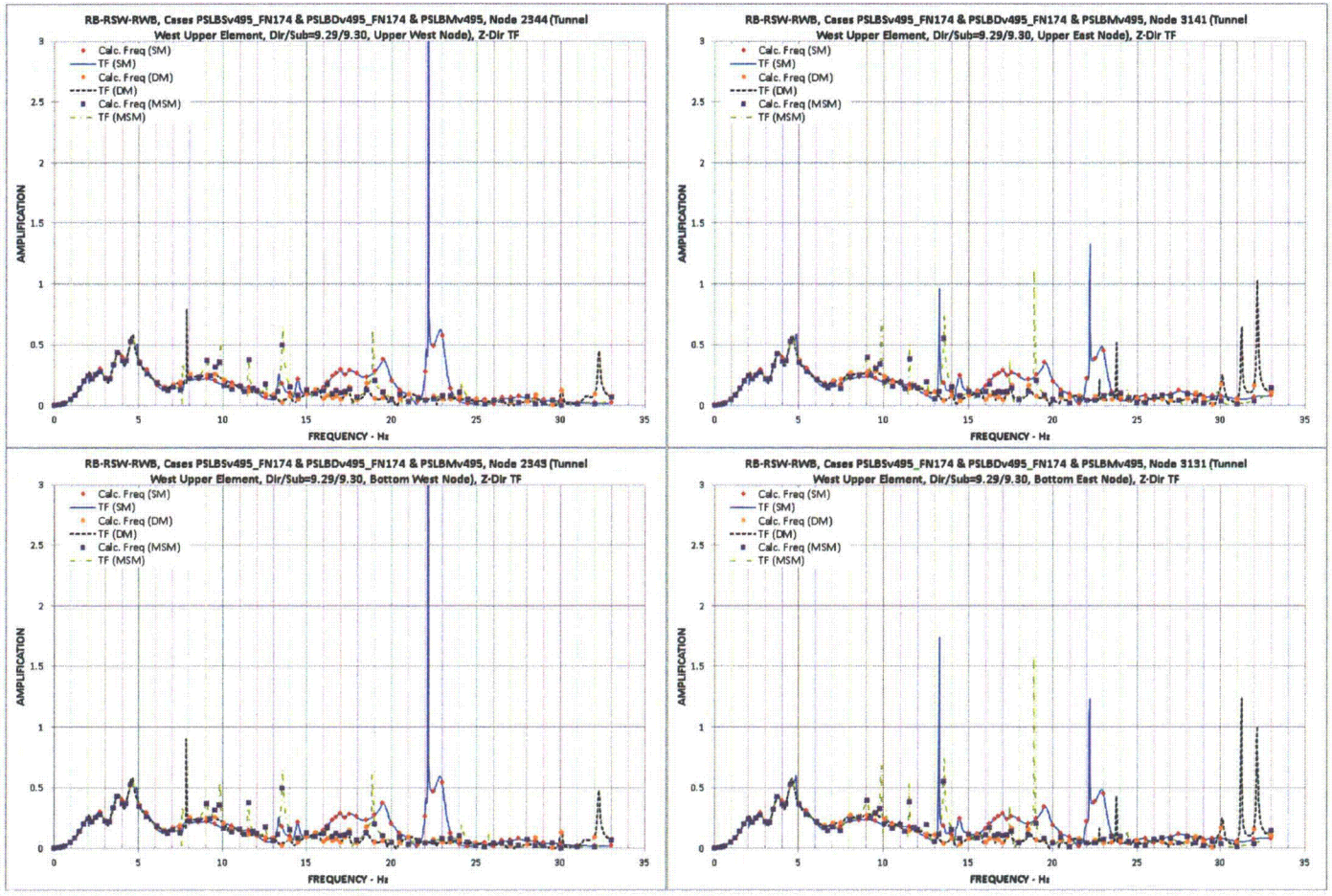

Figure 03.07.01-29 S1.105 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Upper, Dir/Sub Max Stress Ratio = 9.29/9.30, Z-Dir

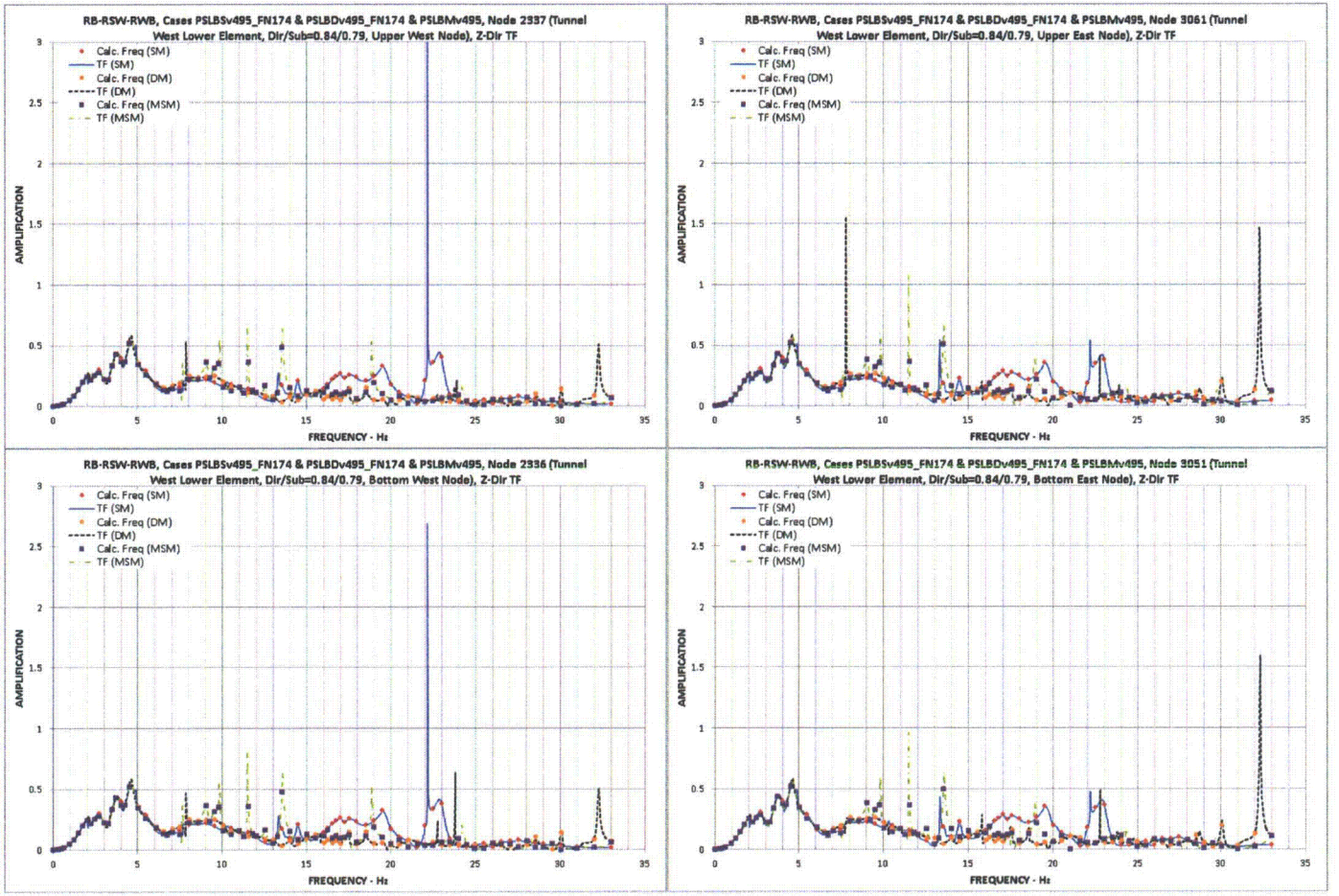

Figure 03.07.01-29 S1.106 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Lower, Dir/Sub Max Stress Ratio = 0.84/0.79, Z-Dir

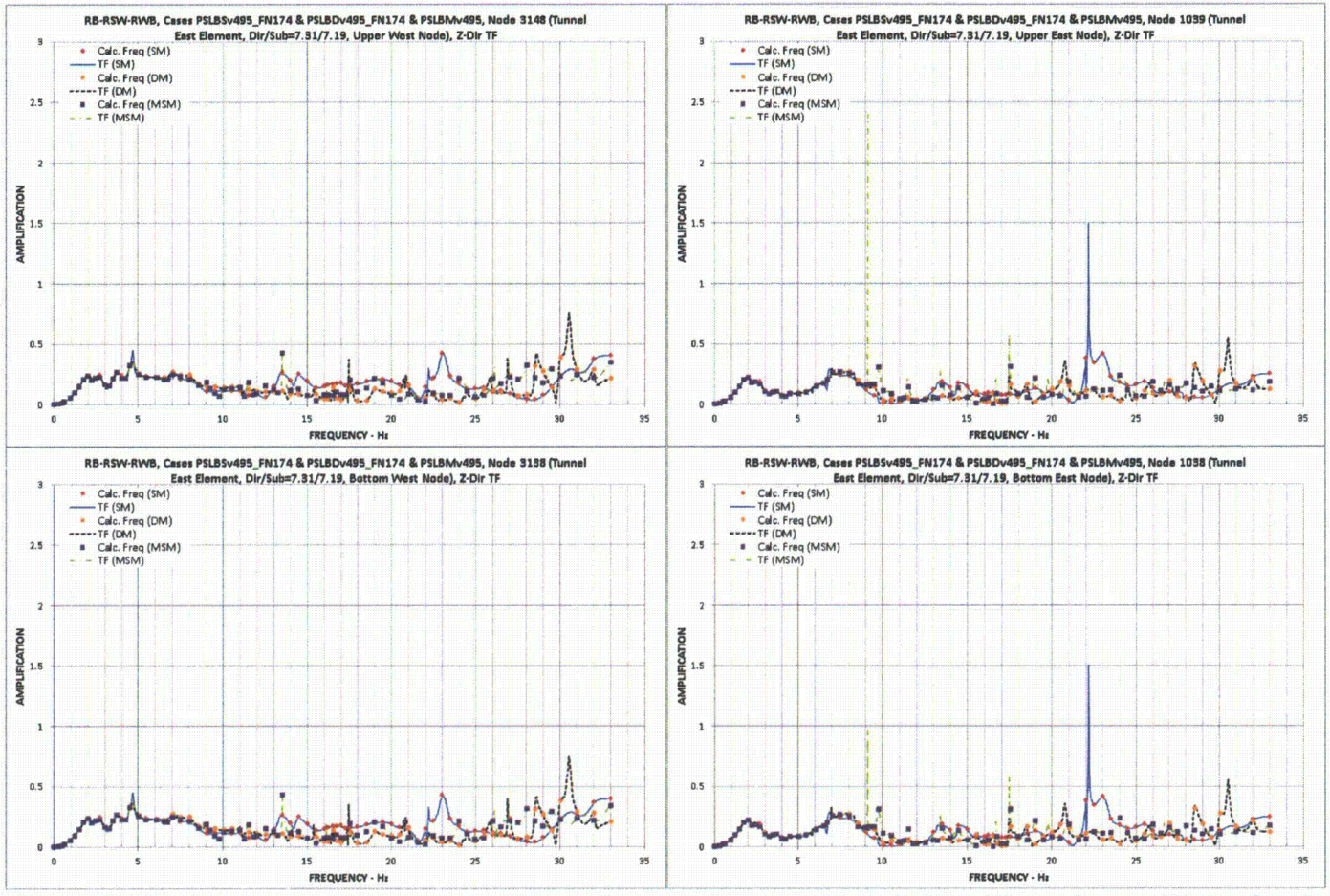

Figure 03.07.01-29 S1.107 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel East, Dir/Sub Max Stress Ratio = 7.31/7.19, Z-Dir

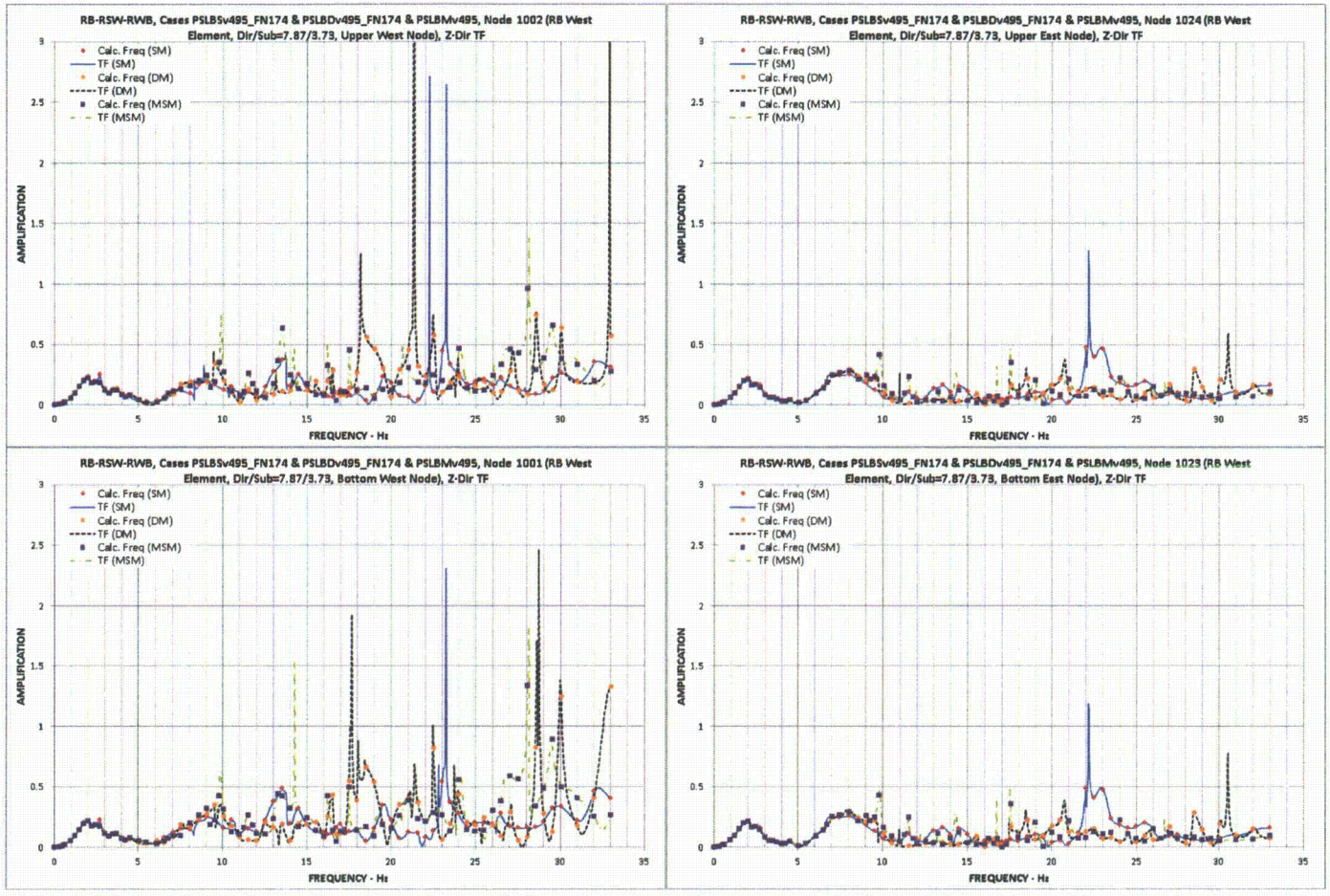

Figure 03.07.01-29 S1.108 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB West, Dir/Sub Max Stress Ratio = 7.87/3.73, Z-Dir

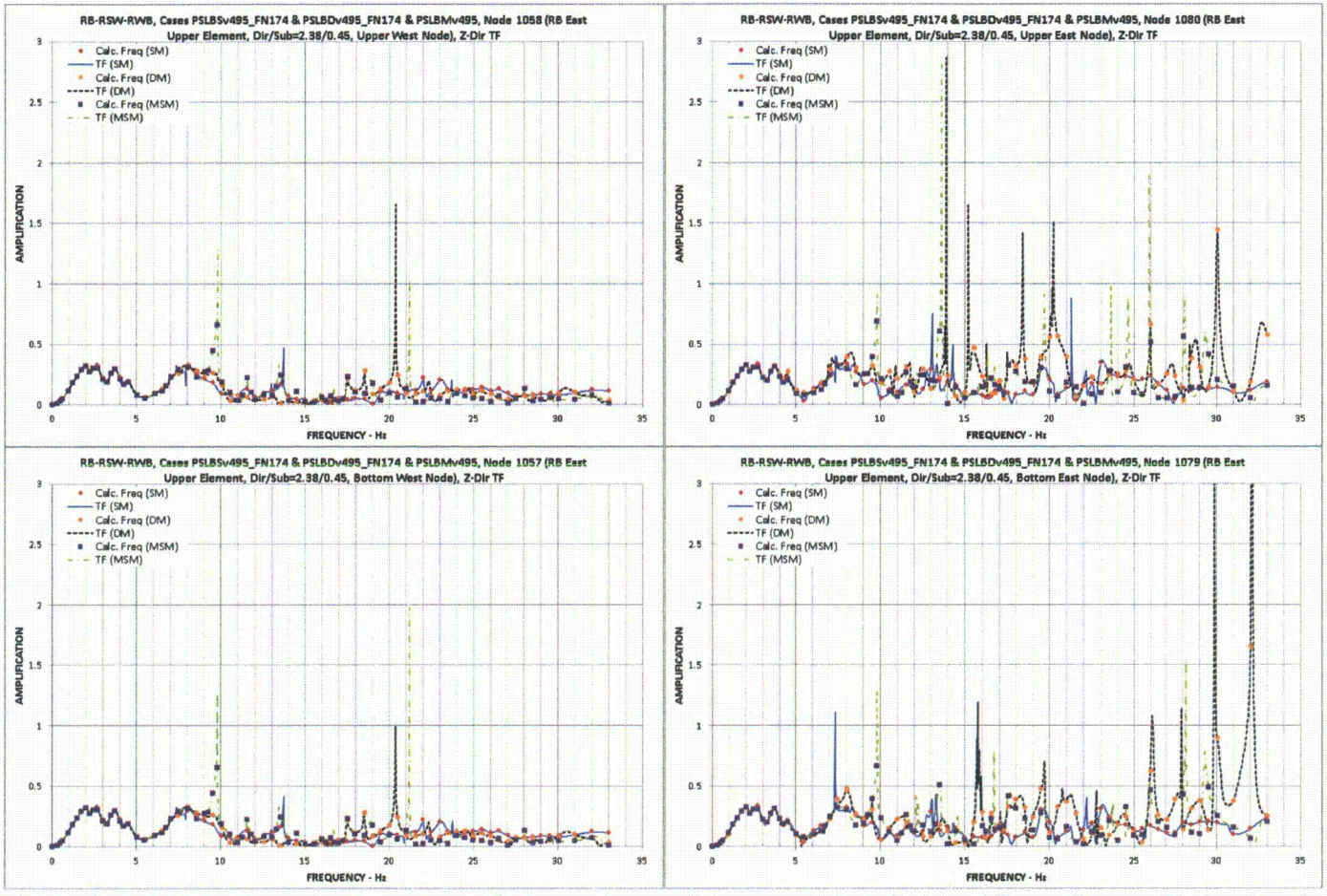

Figure 03.07.01-29 S1.109 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Upper, Dir/Sub Max Stress Ratio = 2.38/0.45, Z-Dir

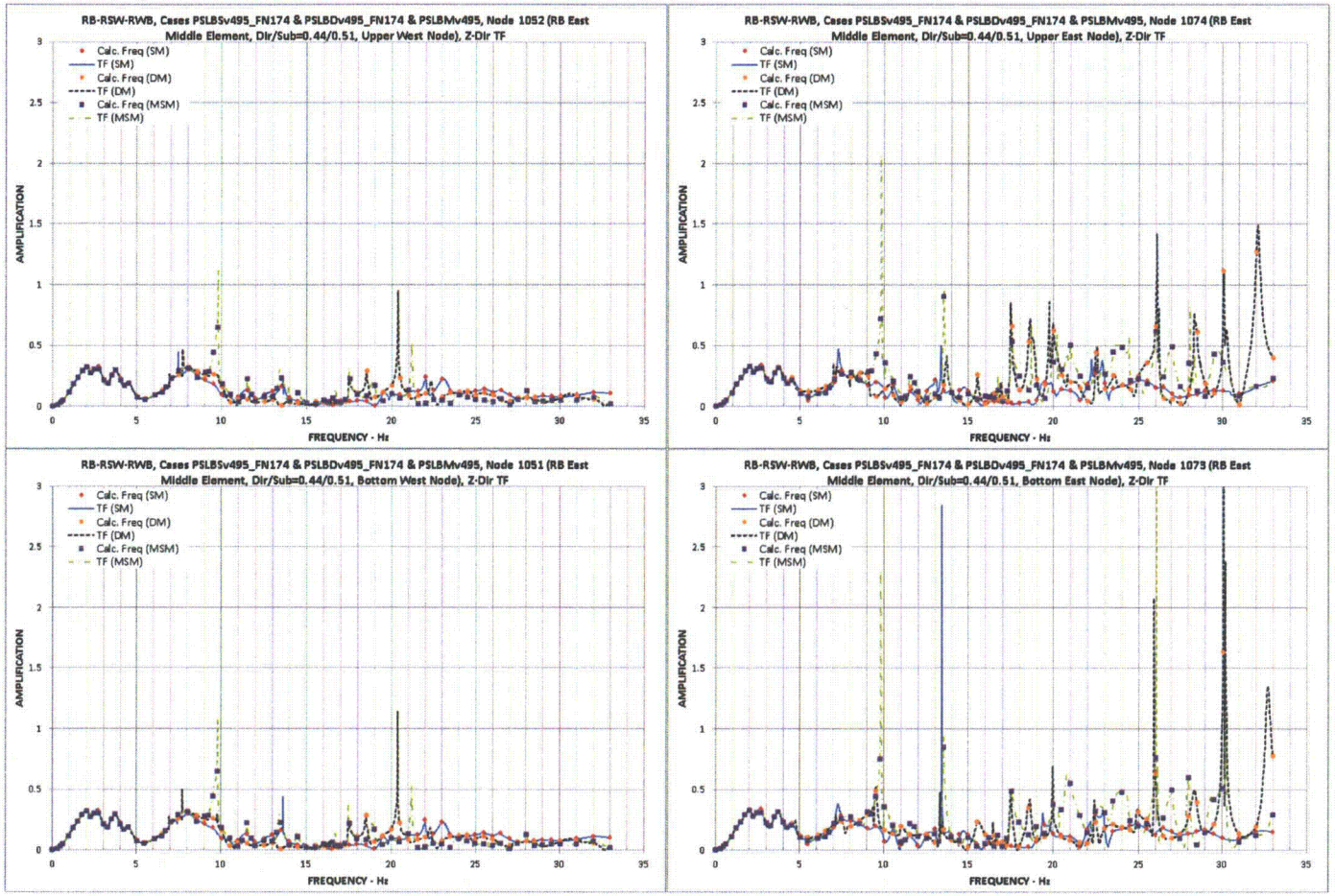

Figure 03.07.01-29 S1.110 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Middle, Dir/Sub Max Stress Ratio = 0.44/0.51, Z-Dir

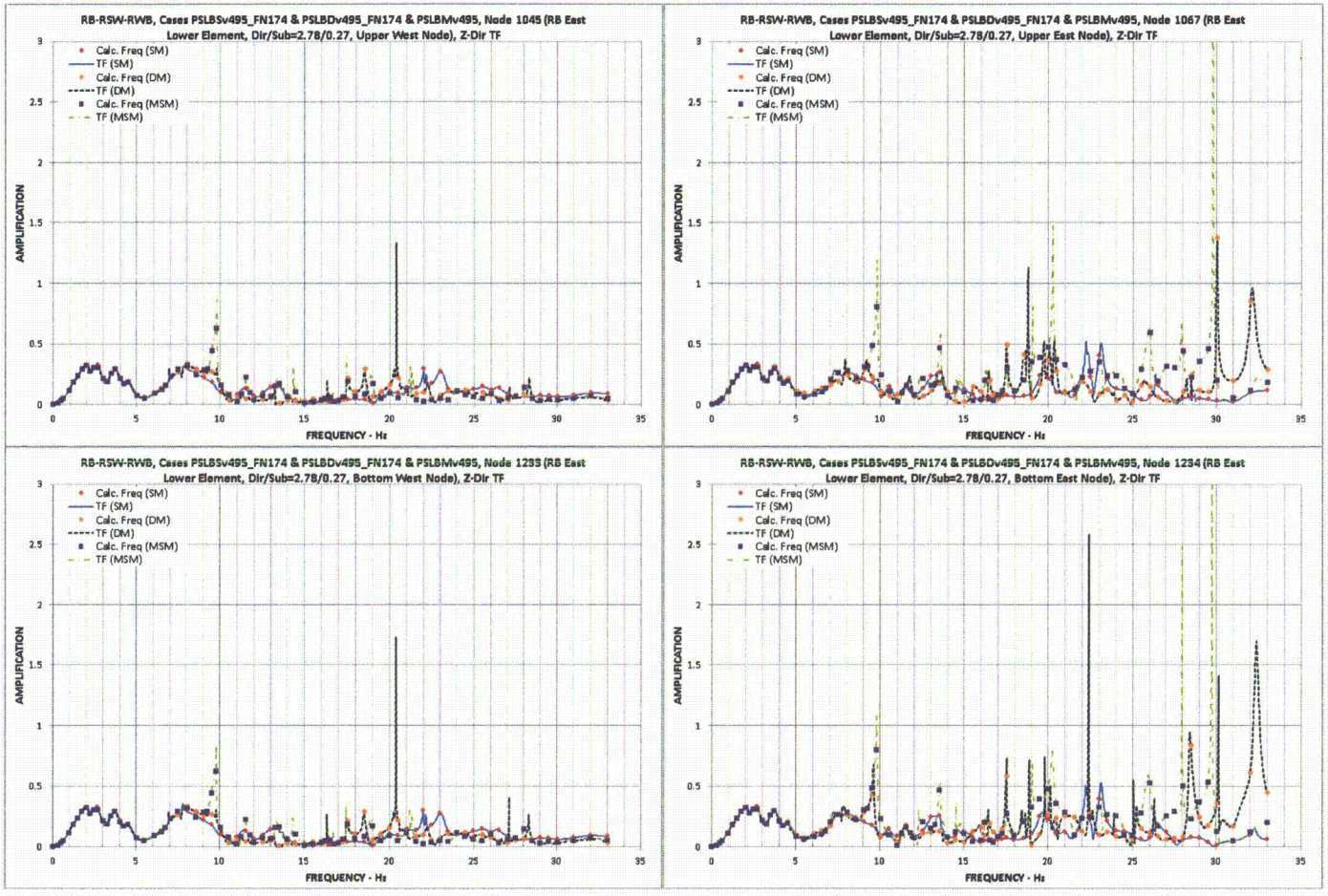

Figure 03.07.01-29 S1.111 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Lower, Dir/Sub Max Stress Ratio = 2.78/0.27, Z-Dir

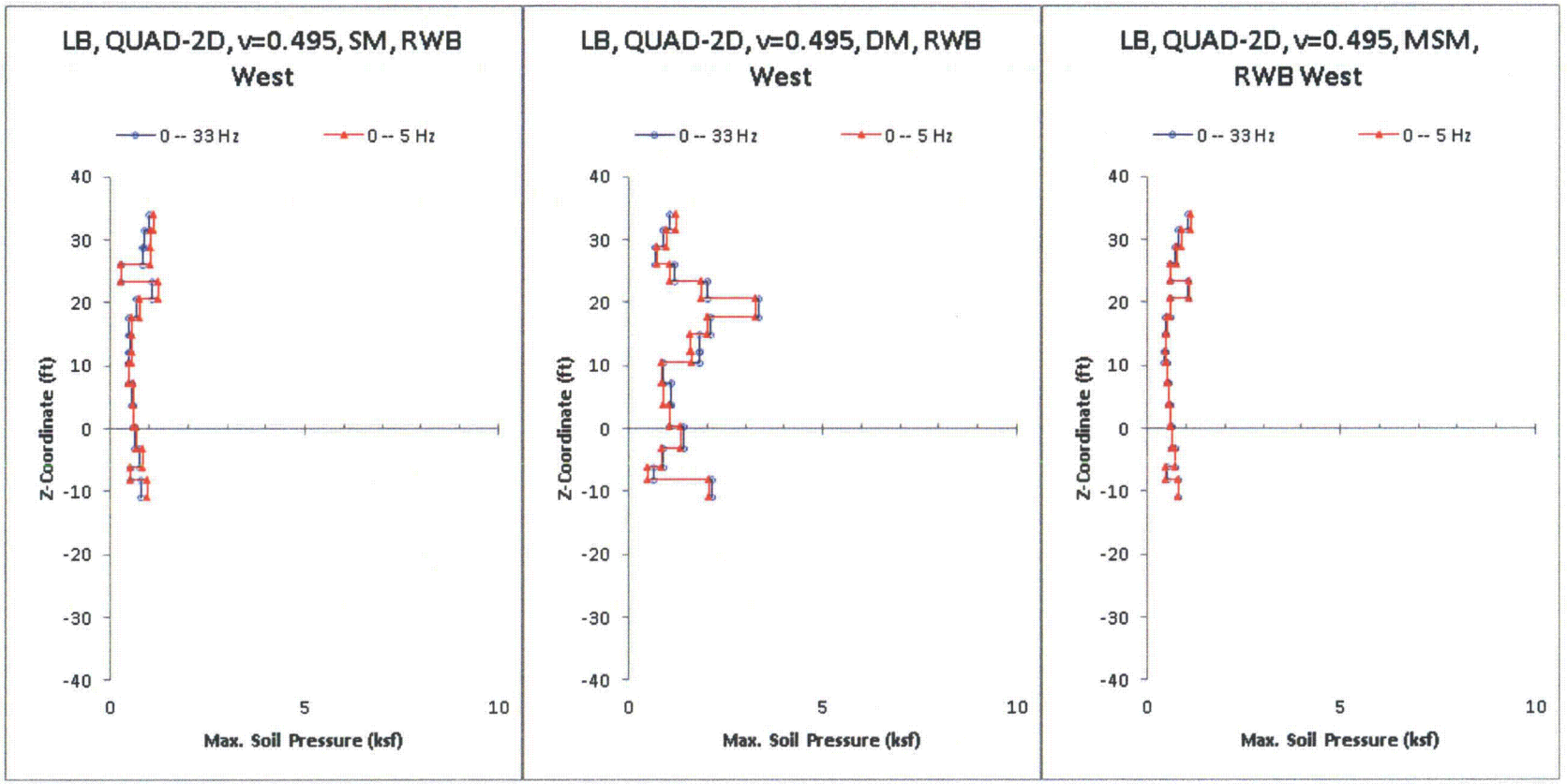

Figure 03.07.01-29 S1.112 - Maximum Seismic Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), Radwaste Building West Wall, Lower Bound In-Situ, QUAD-2D, v = 0.495

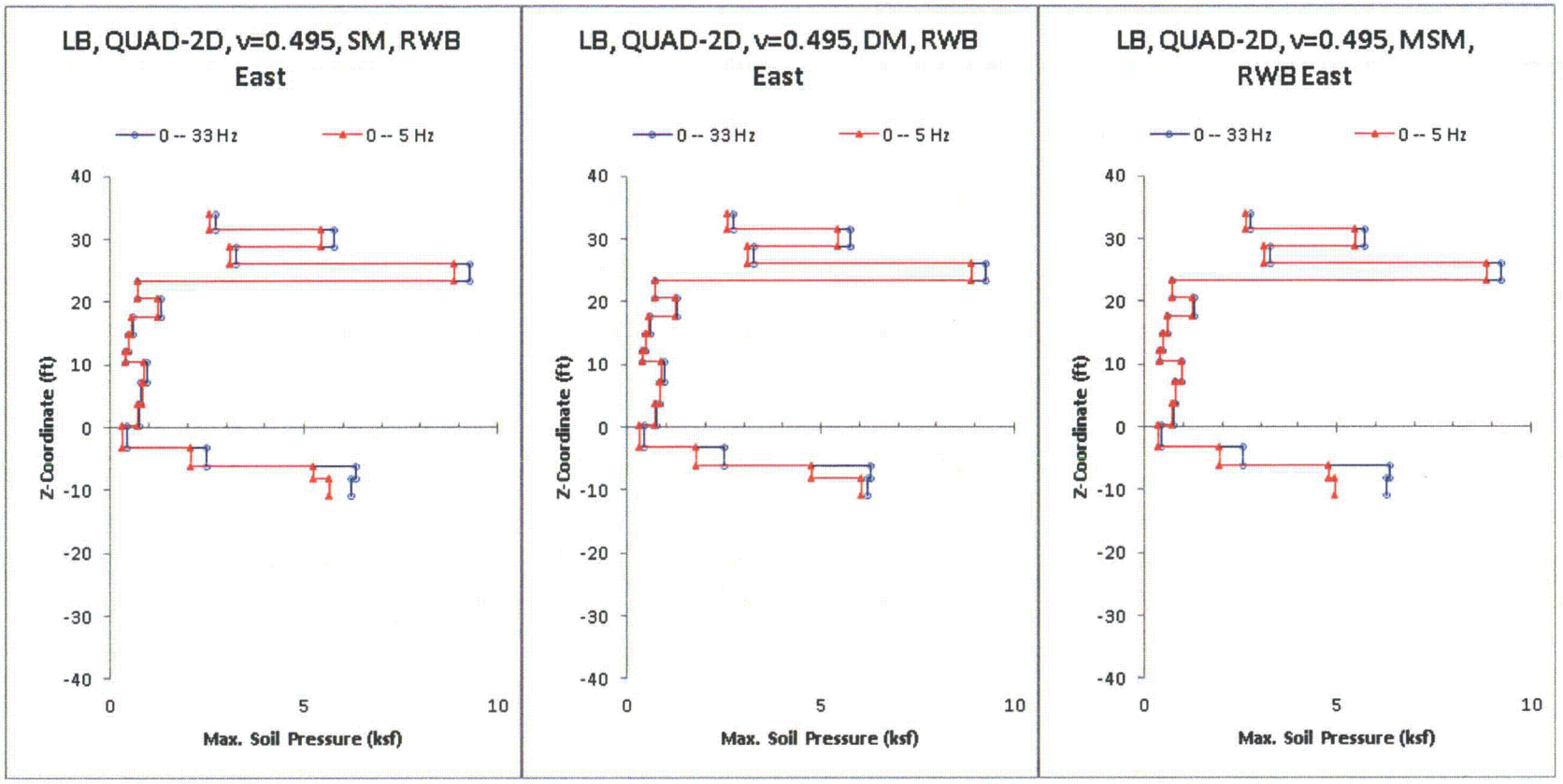

Figure 03.07.01-29 S1.113 - Maximum Seismic Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), Radwaste Building East Wall, Lower Bound In-Situ, QUAD-2D, v = 0.495

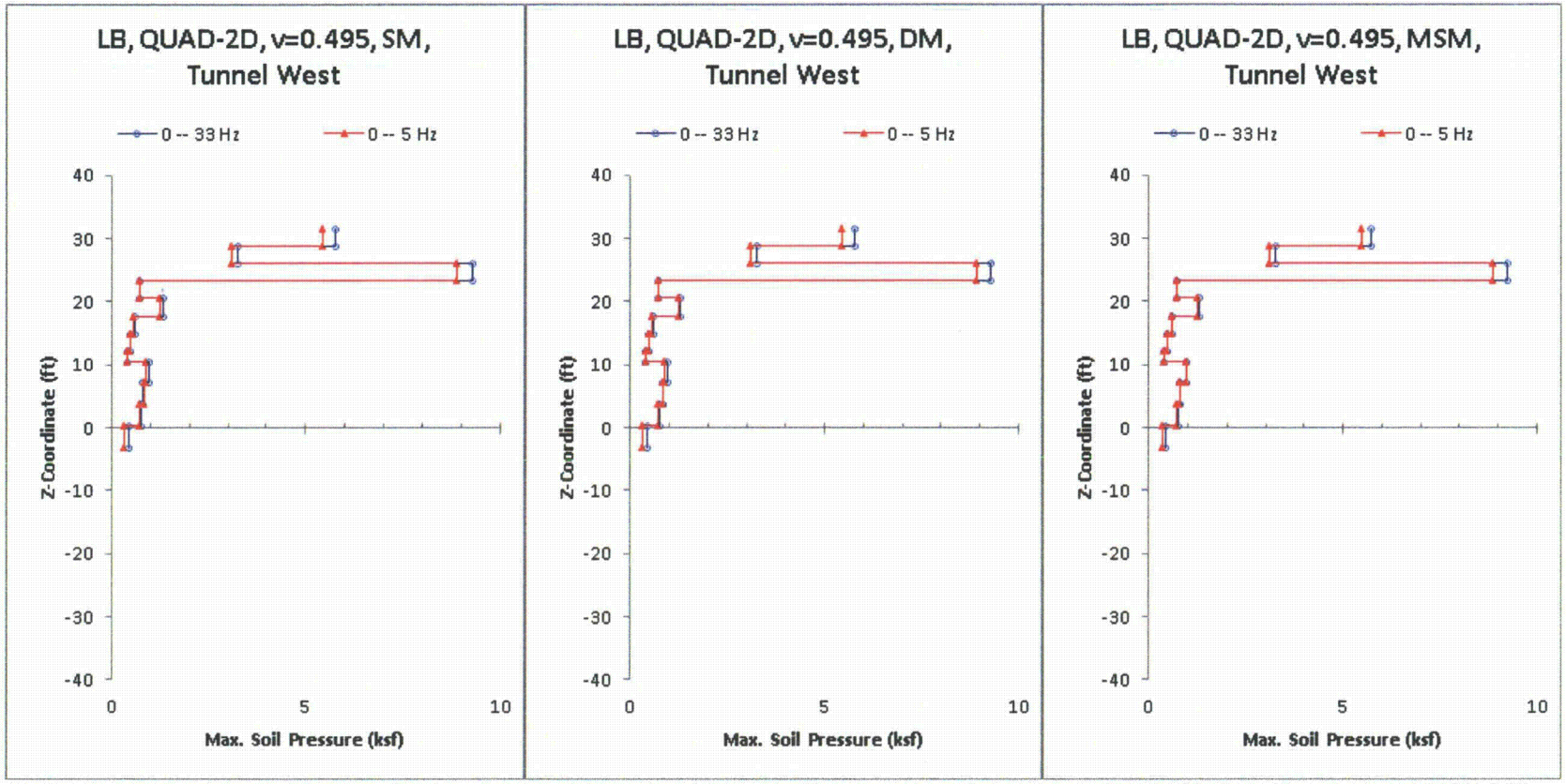

Figure 03.07.01-29 S1.114 - Maximum Seismic Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel West Wall, Lower Bound In-Situ, QUAD-2D, v = 0.495

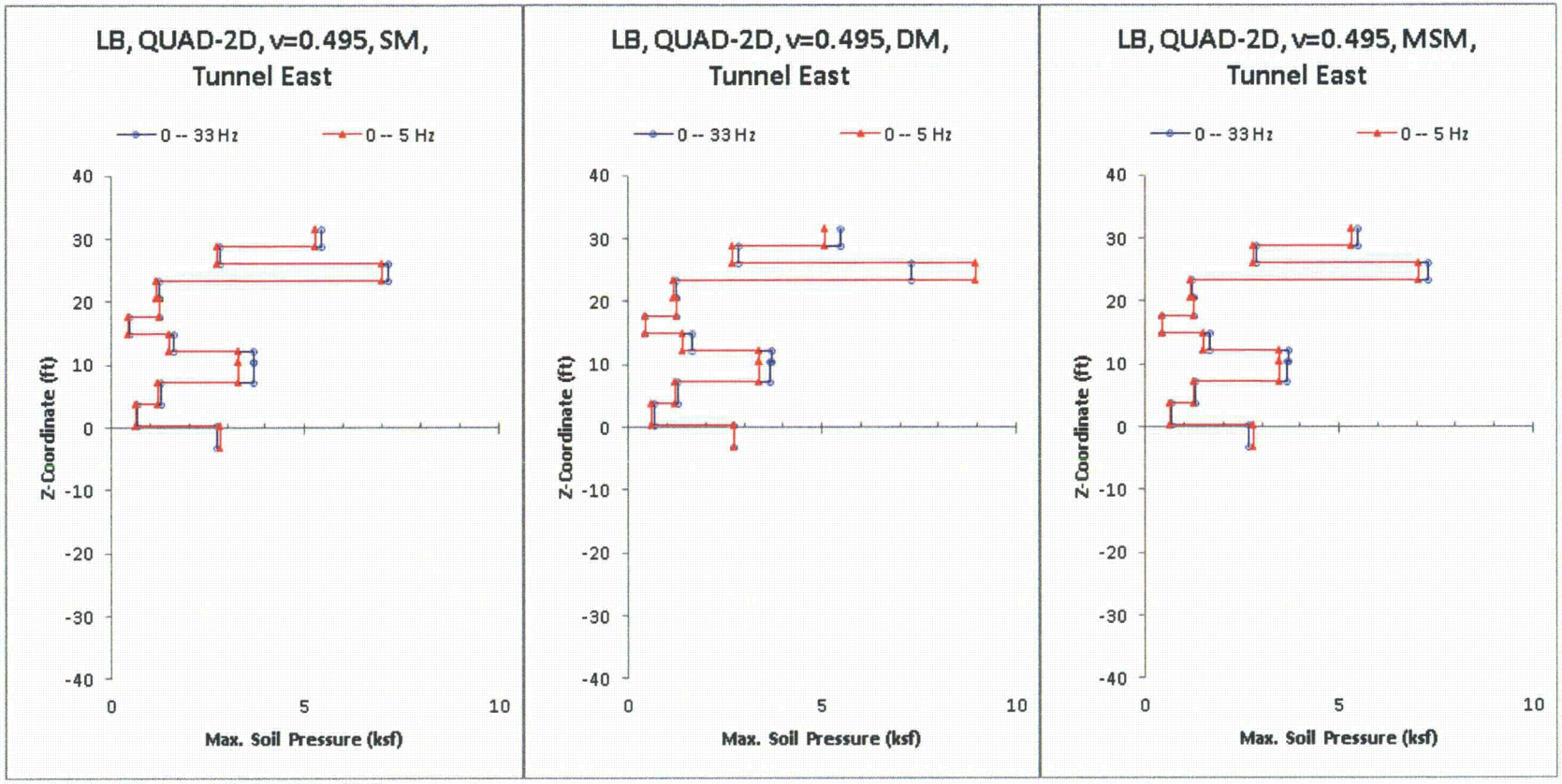

Figure 03.07.01-29 S1.115 - Maximum Seismic Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel East Wall, Lower Bound In-Situ, QUAD-2D, v = 0.495

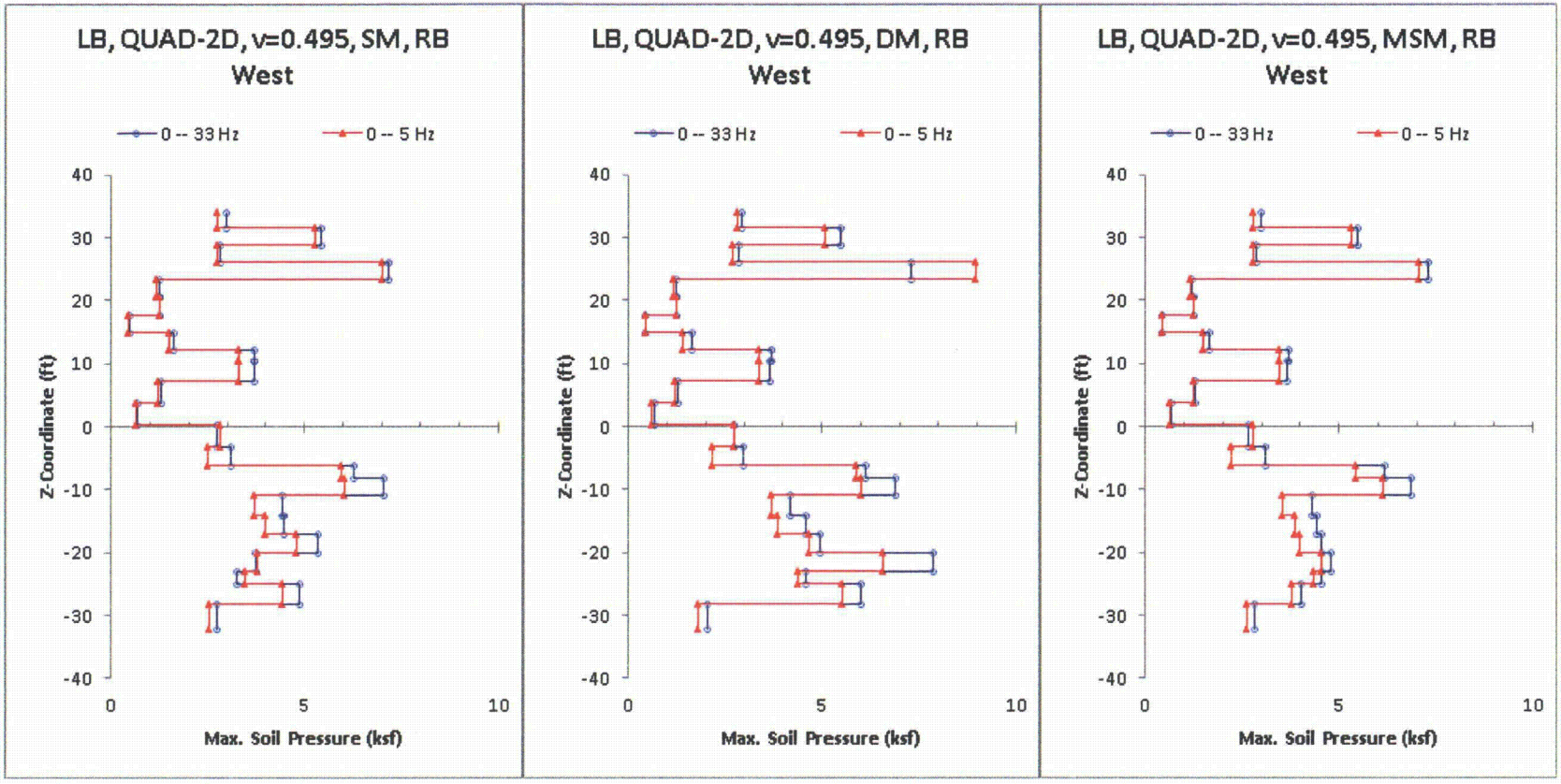

Figure 03.07.01-29 S1.116 - Maximum Seismic Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), Reactor Building West Wall, Lower Bound In-Situ, QUAD-2D, v = 0.495

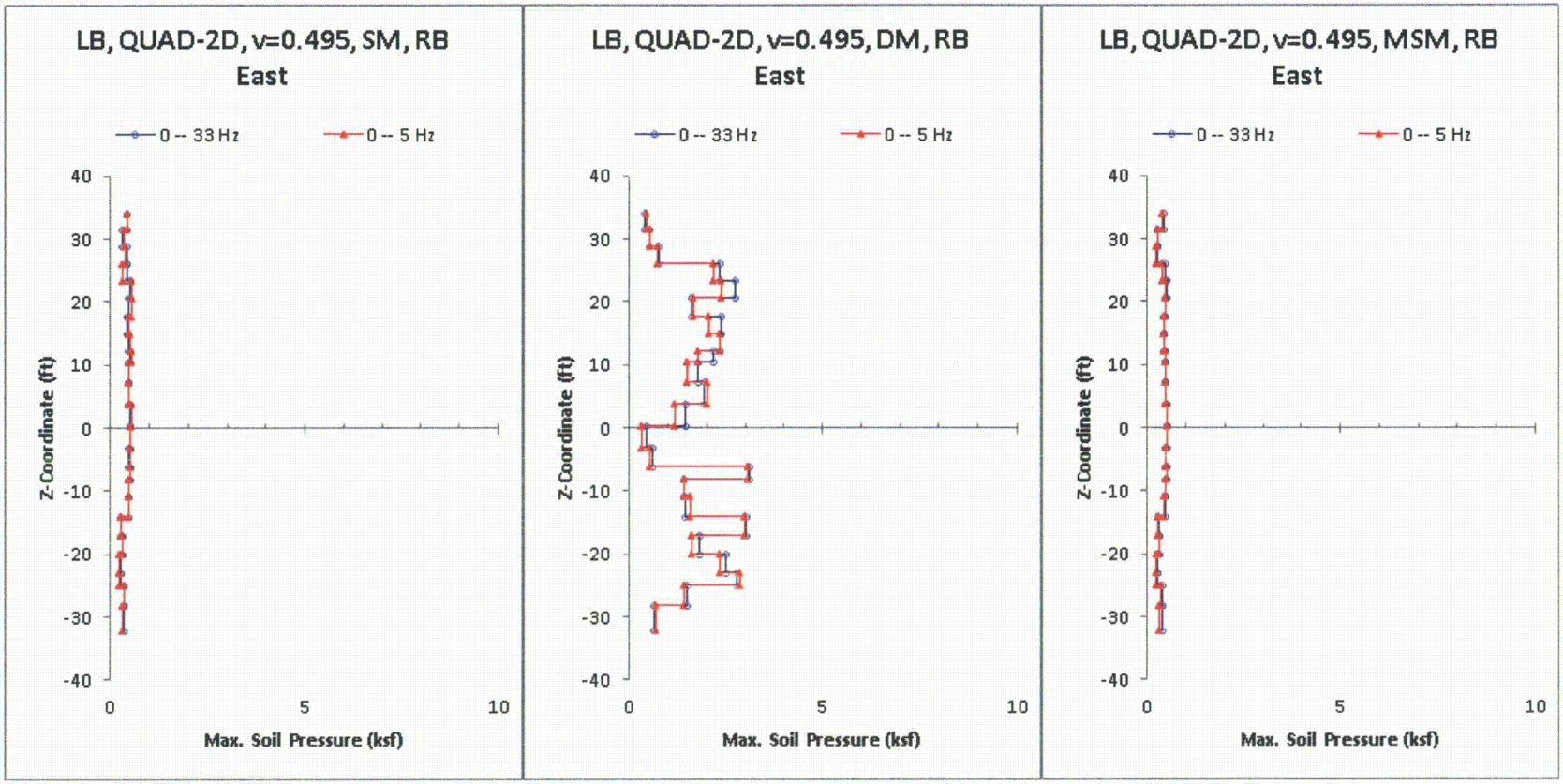

Figure 03.07.01-29 S1.117 - Maximum Seismic Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), Reactor Building East Wall, Lower Bound In-Situ, QUAD-2D, v = 0.495

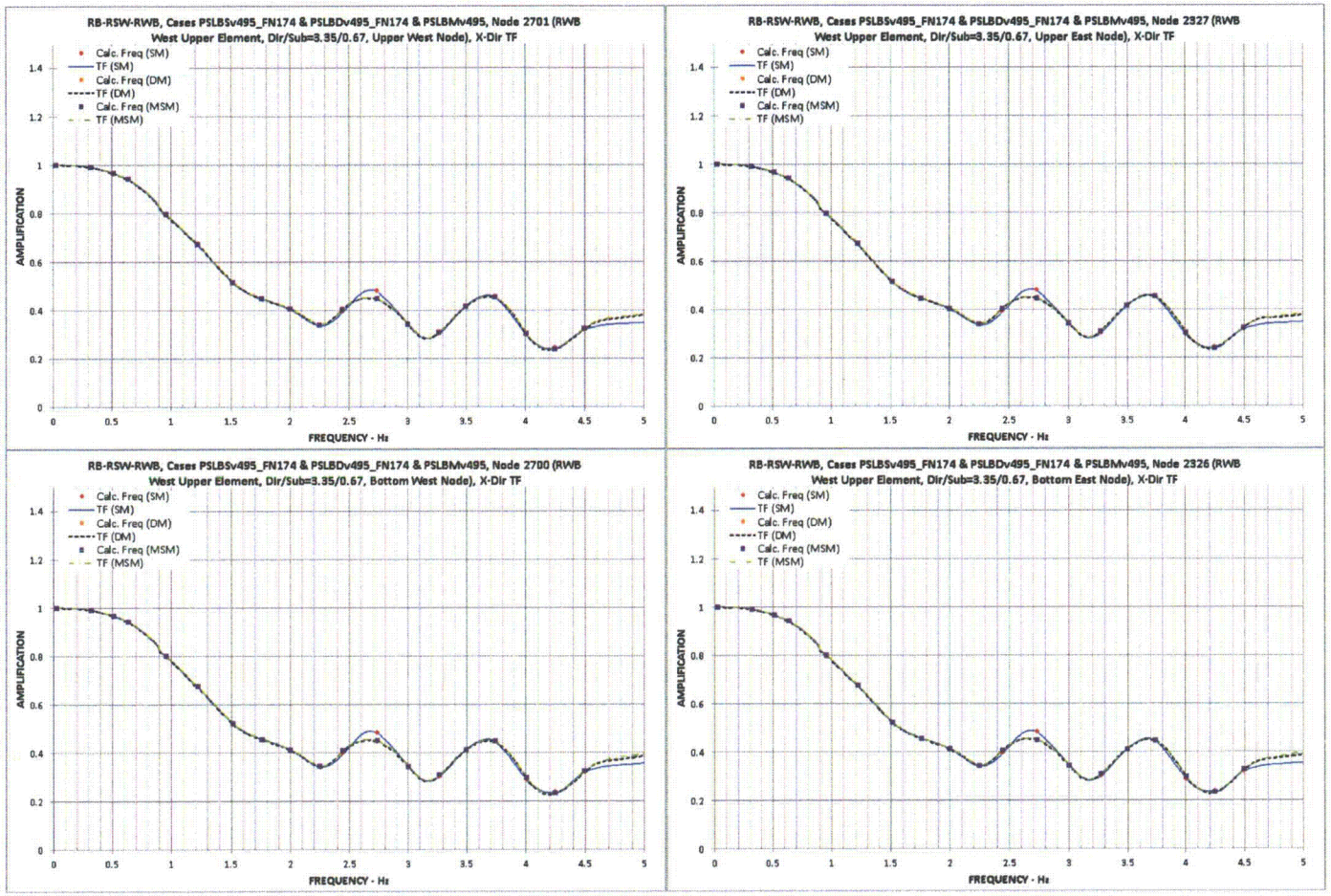

Figure 03.07.01-29 S1.118 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Upper, Dir/Sub Max Stress Ratio = 3.35/0.67, X-Dir

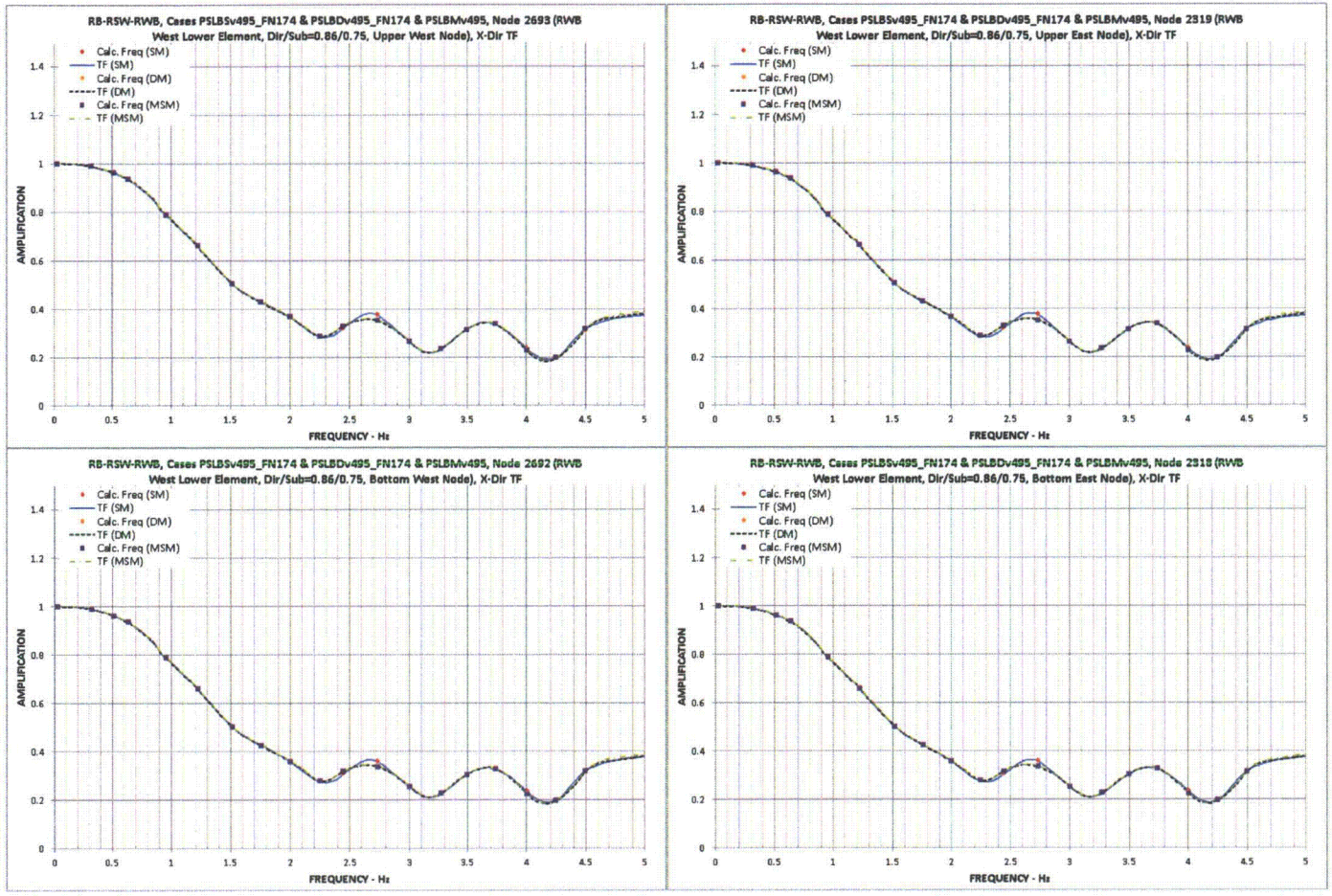

Figure 03.07.01-29 S1.119 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Lower, Dir/Sub Max Stress Ratio = 0.86/0.75, X-Dir

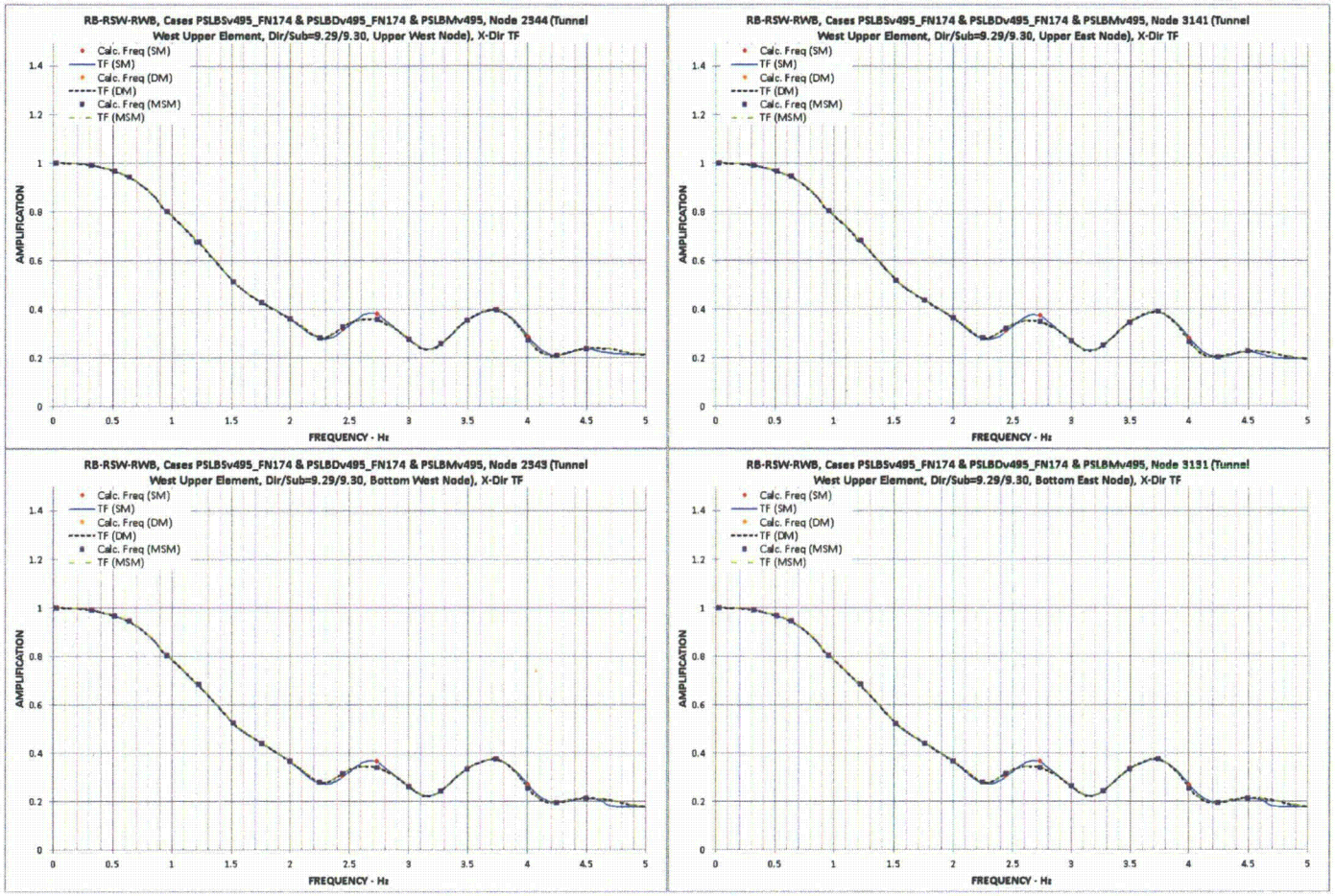

Figure 03.07.01-29 S1.120 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Upper, Dir/Sub Max Stress Ratio = 9.29/9.30, X-Dir

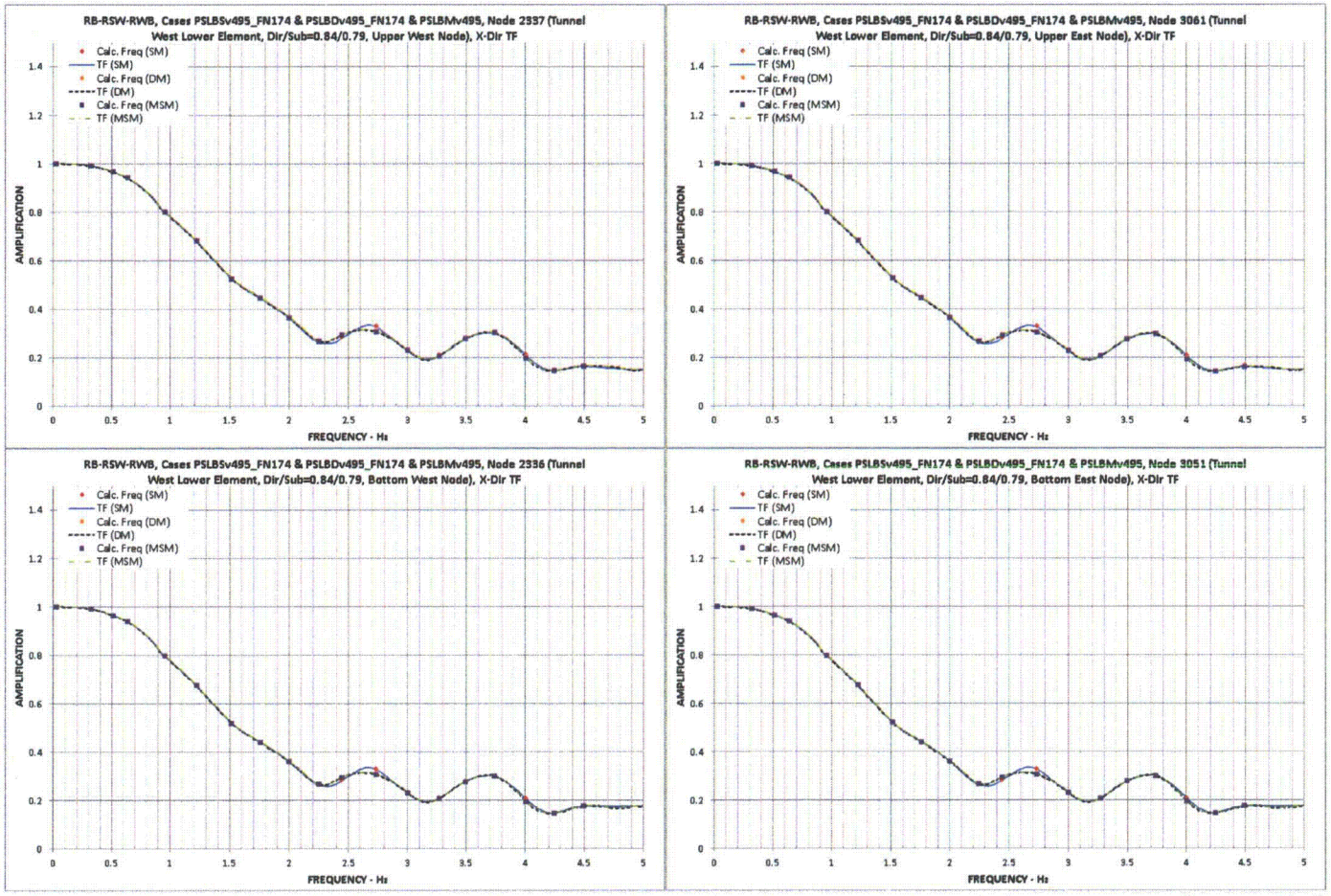

Figure 03.07.01-29 S1.121 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Lower, Dir/Sub Max Stress Ratio = 0.84/0.79, X-Dir

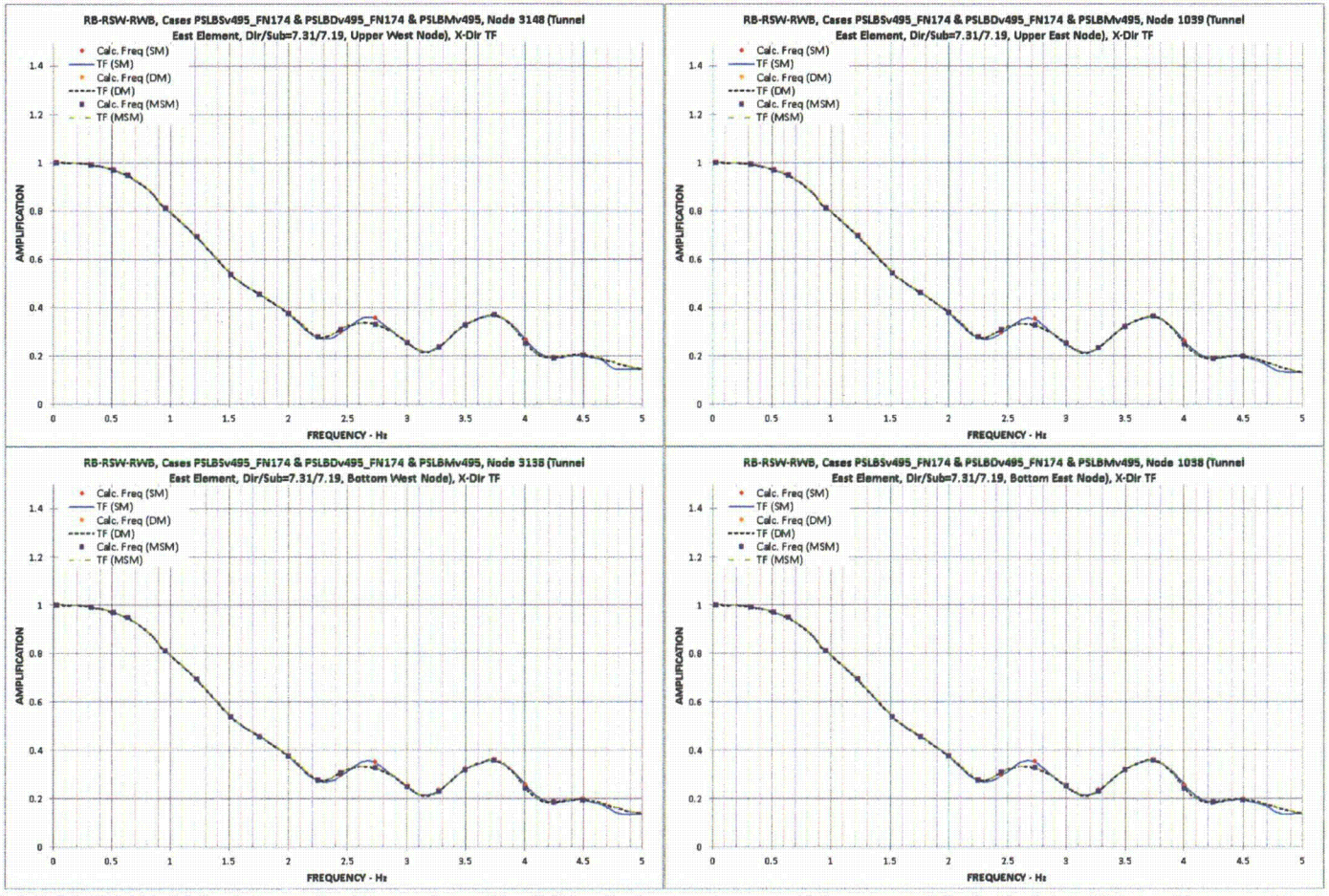

Figure 03.07.01-29 S1.122 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel East, Dir/Sub Max Stress Ratio = 7.31/7.19, X-Dir

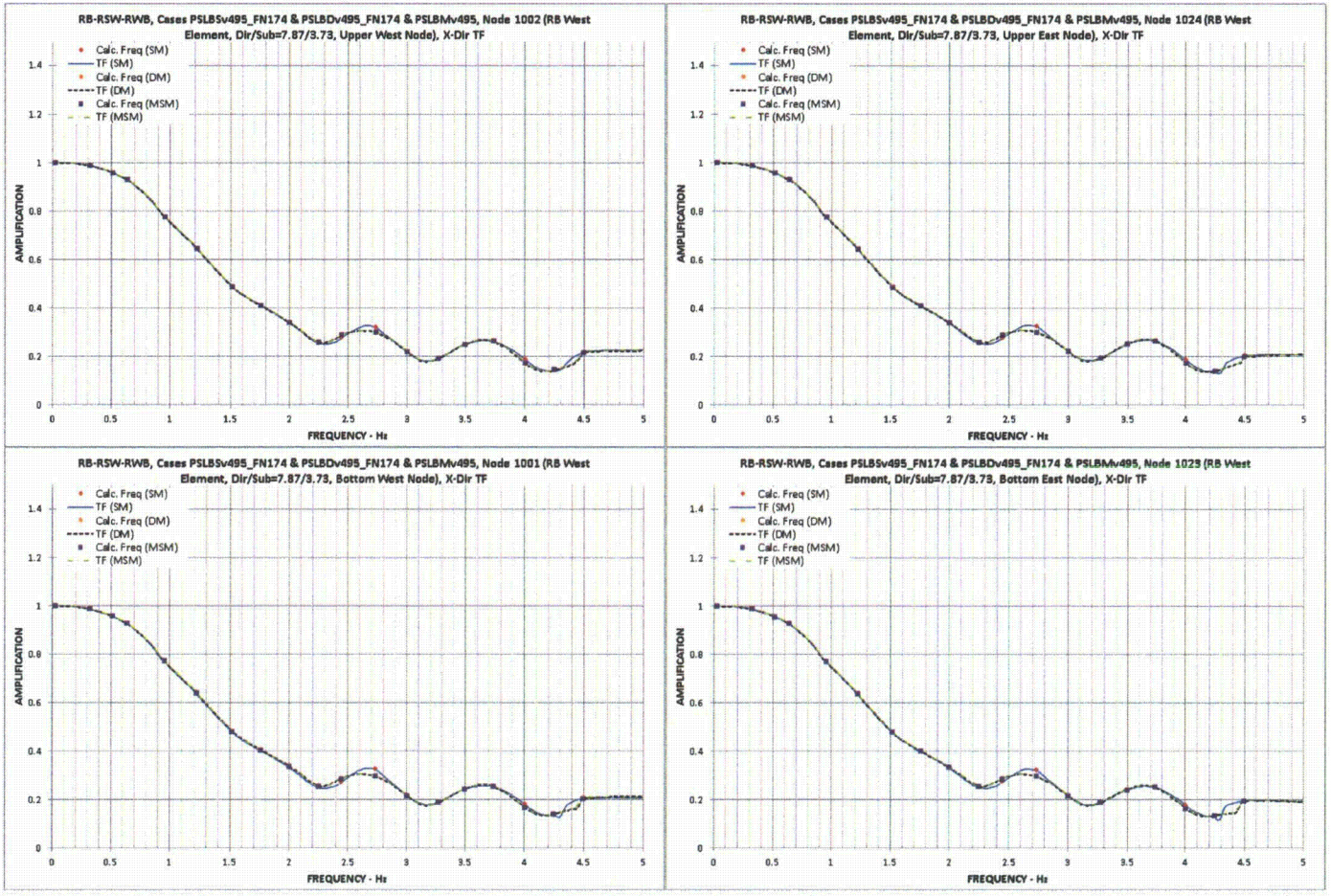

Figure 03.07.01-29 S1.123 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB West, Dir/Sub Max Stress Ratio = 7.87/3.73, X-Dir

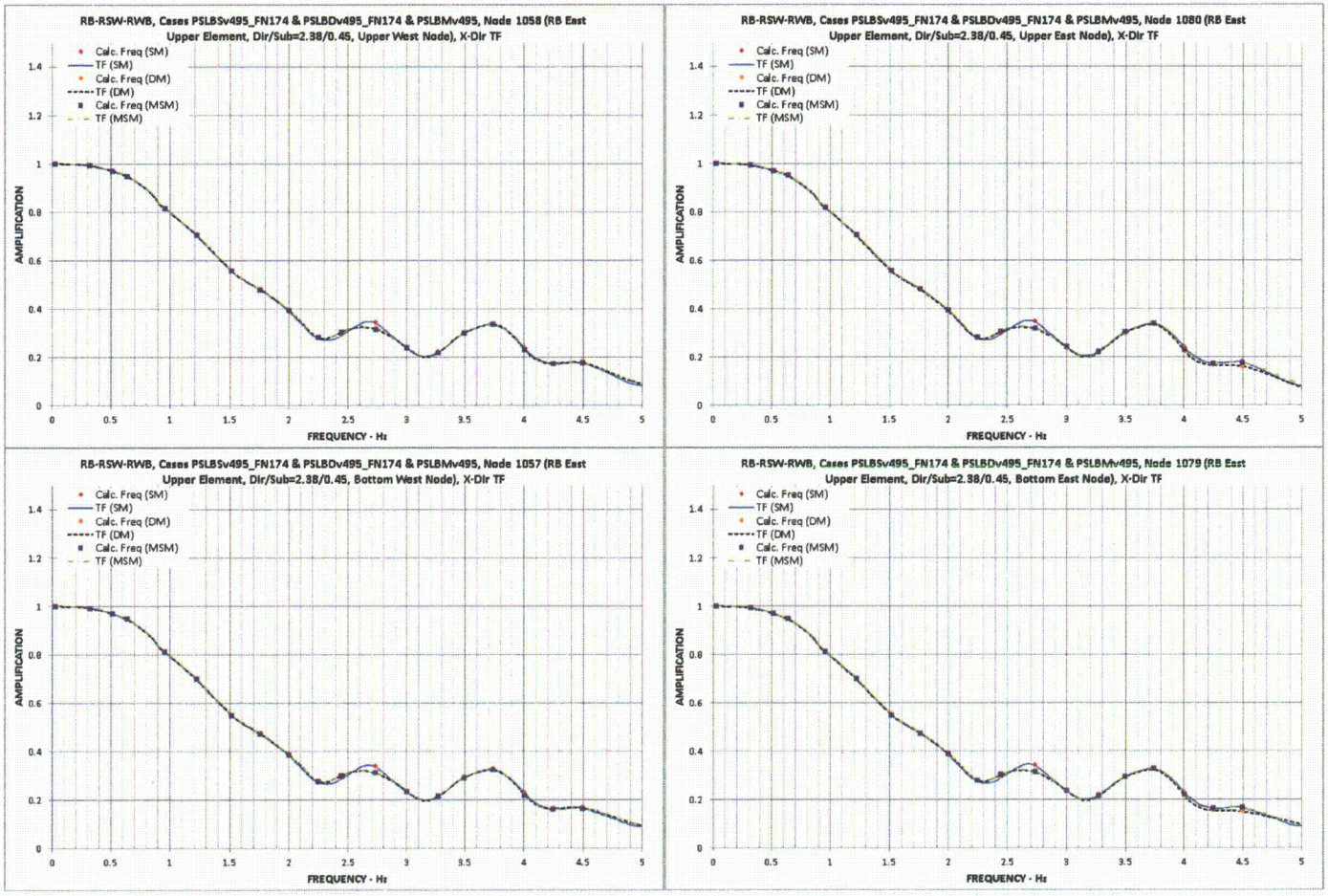

Figure 03.07.01-29 S1.124 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Upper, Dir/Sub Max Stress Ratio = 2.38/0.45, X-Dir

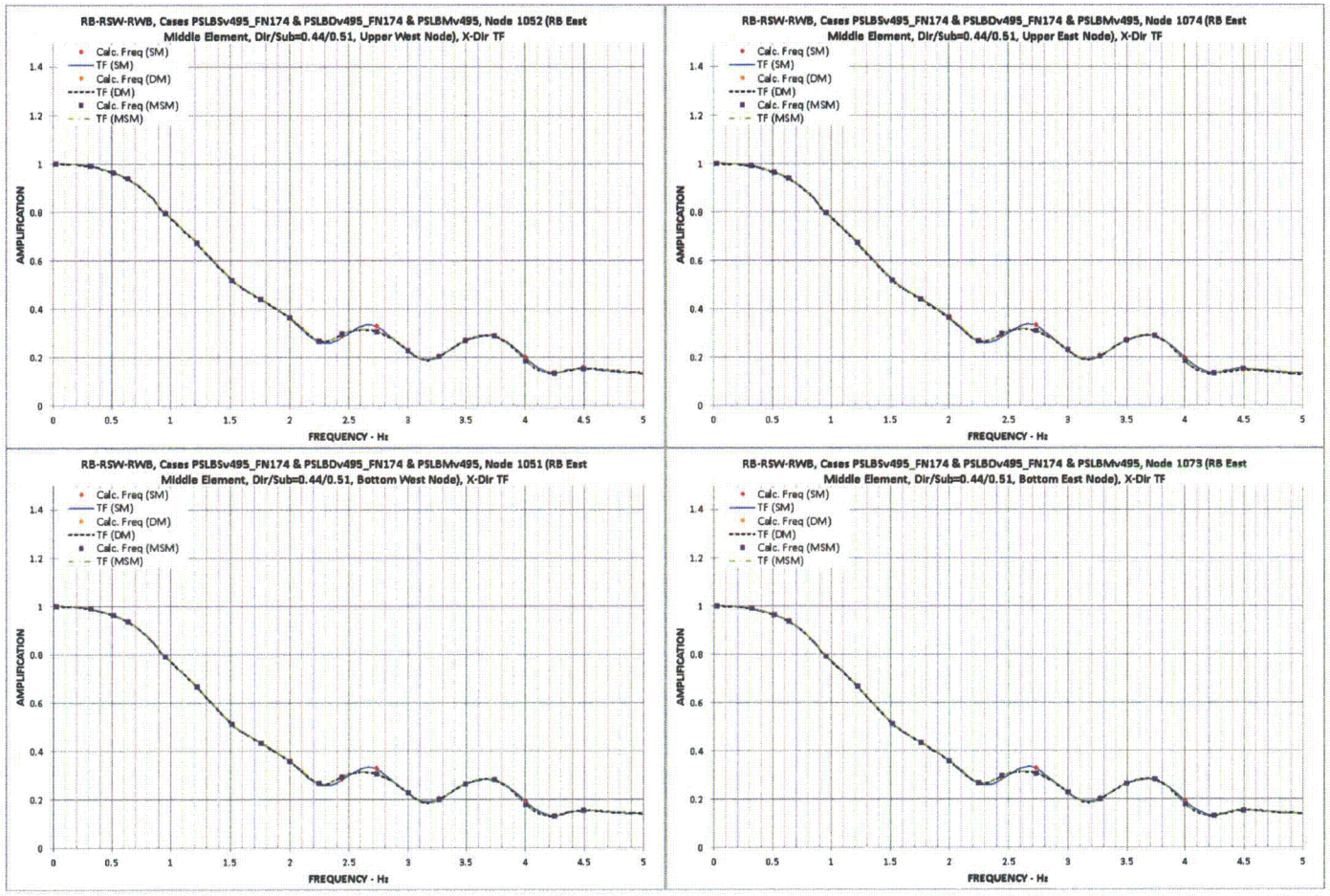

Figure 03.07.01-29 S1.125 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Middle, Dir/Sub Max Stress Ratio = 0.44/0.51, X-Dir

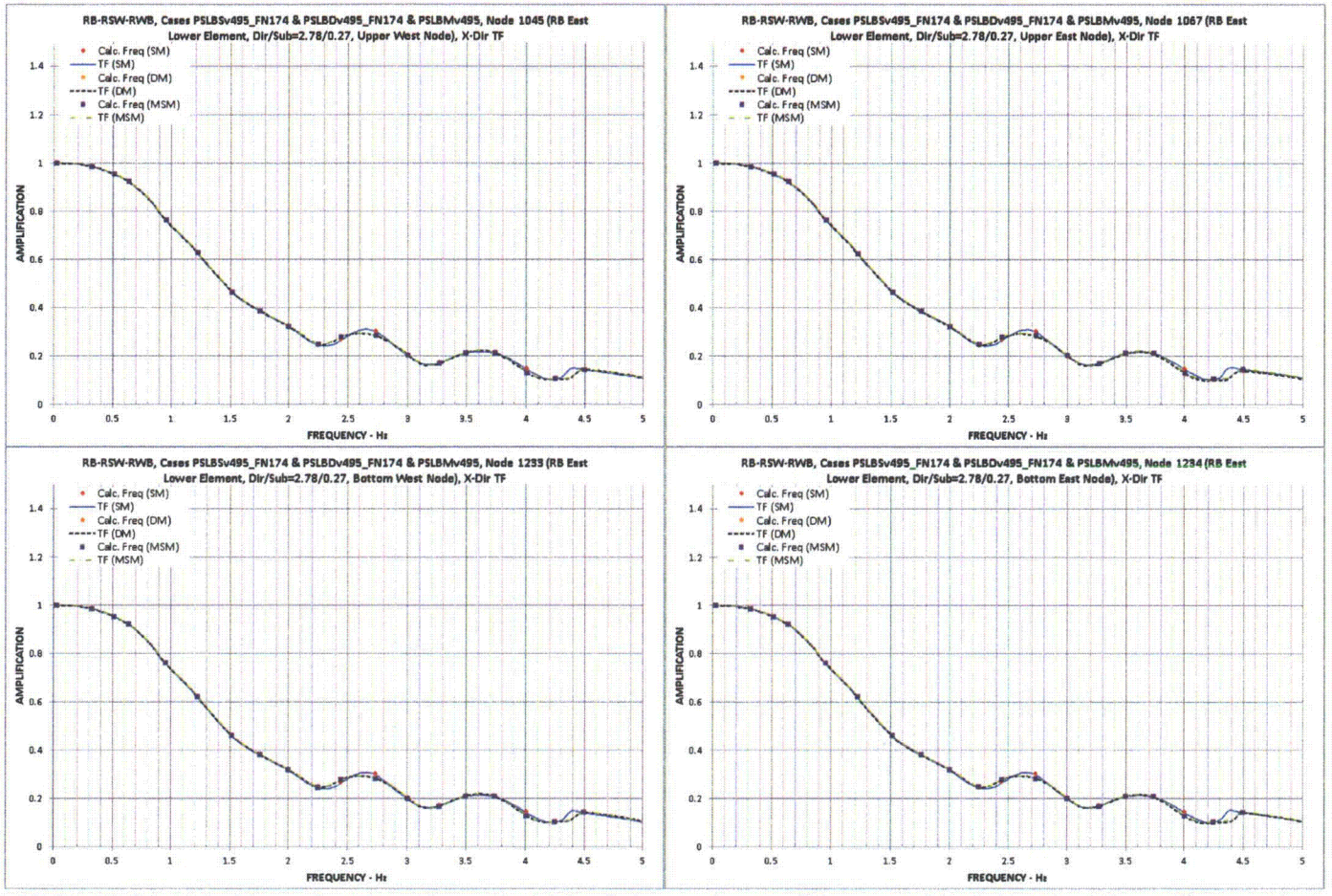

Figure 03.07.01-29 S1.126 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Lower, Dir/Sub Max Stress Ratio = 2.78/0.27, X-Dir

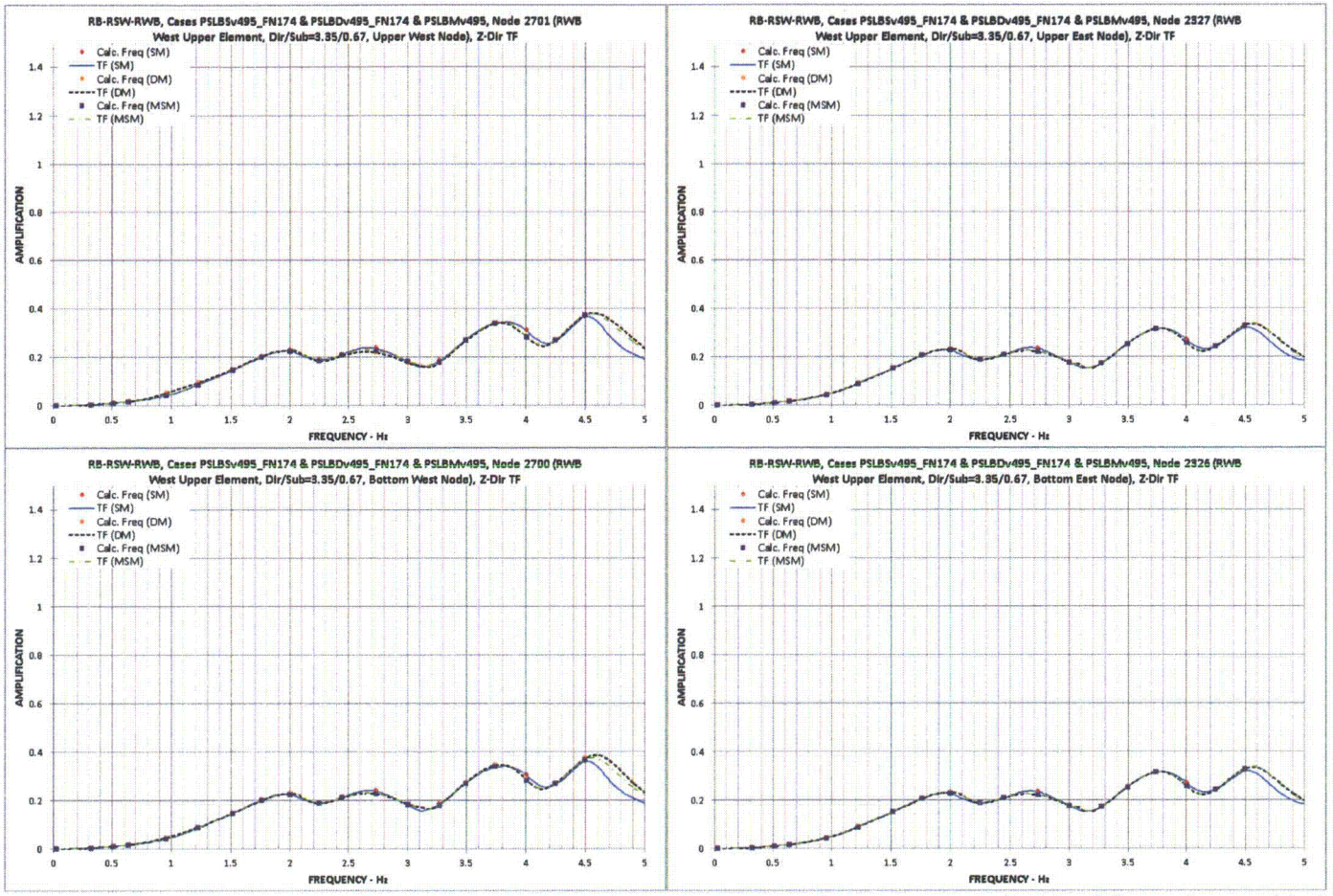

Figure 03.07.01-29 S1.127 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Upper, Dir/Sub Max Stress Ratio = 3.35/0.67, Z-Dir

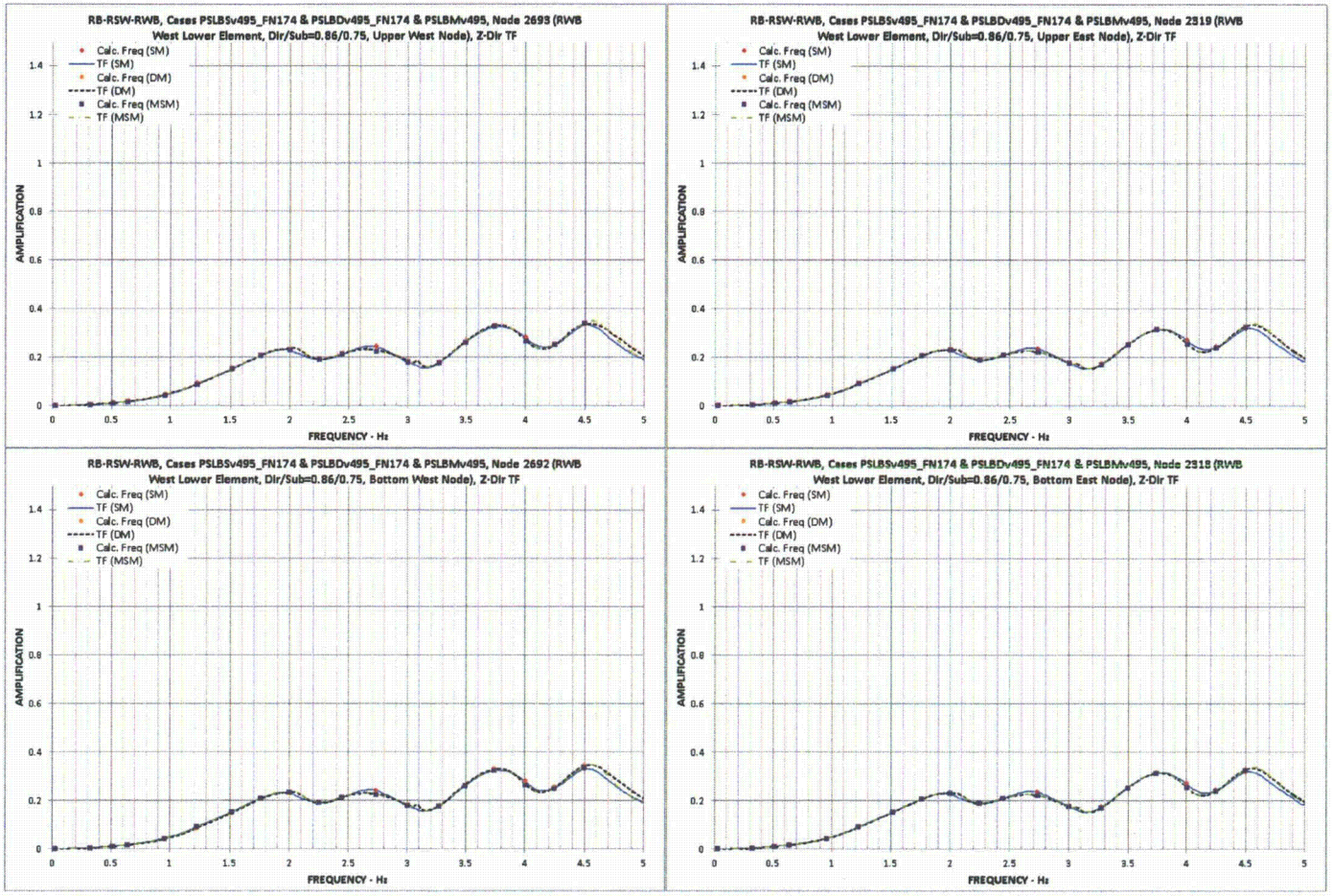

Figure 03.07.01-29 S1.128 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Lower, Dir/Sub Max Stress Ratio = 0.86/0.75, Z-Dir

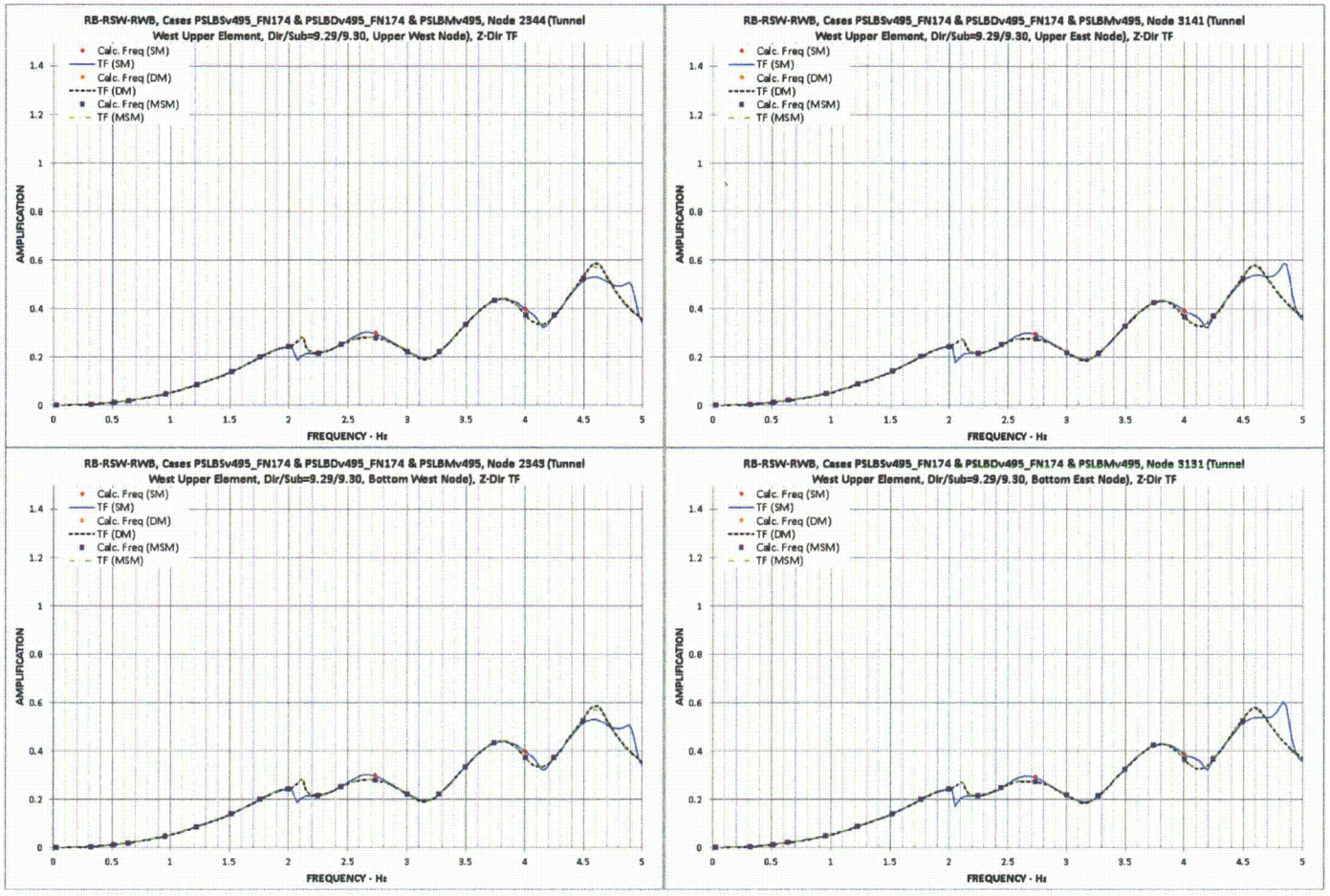

Figure 03.07.01-29 S1.129 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Upper, Dir/Sub Max Stress Ratio = 9.29/9.30, Z-Dir

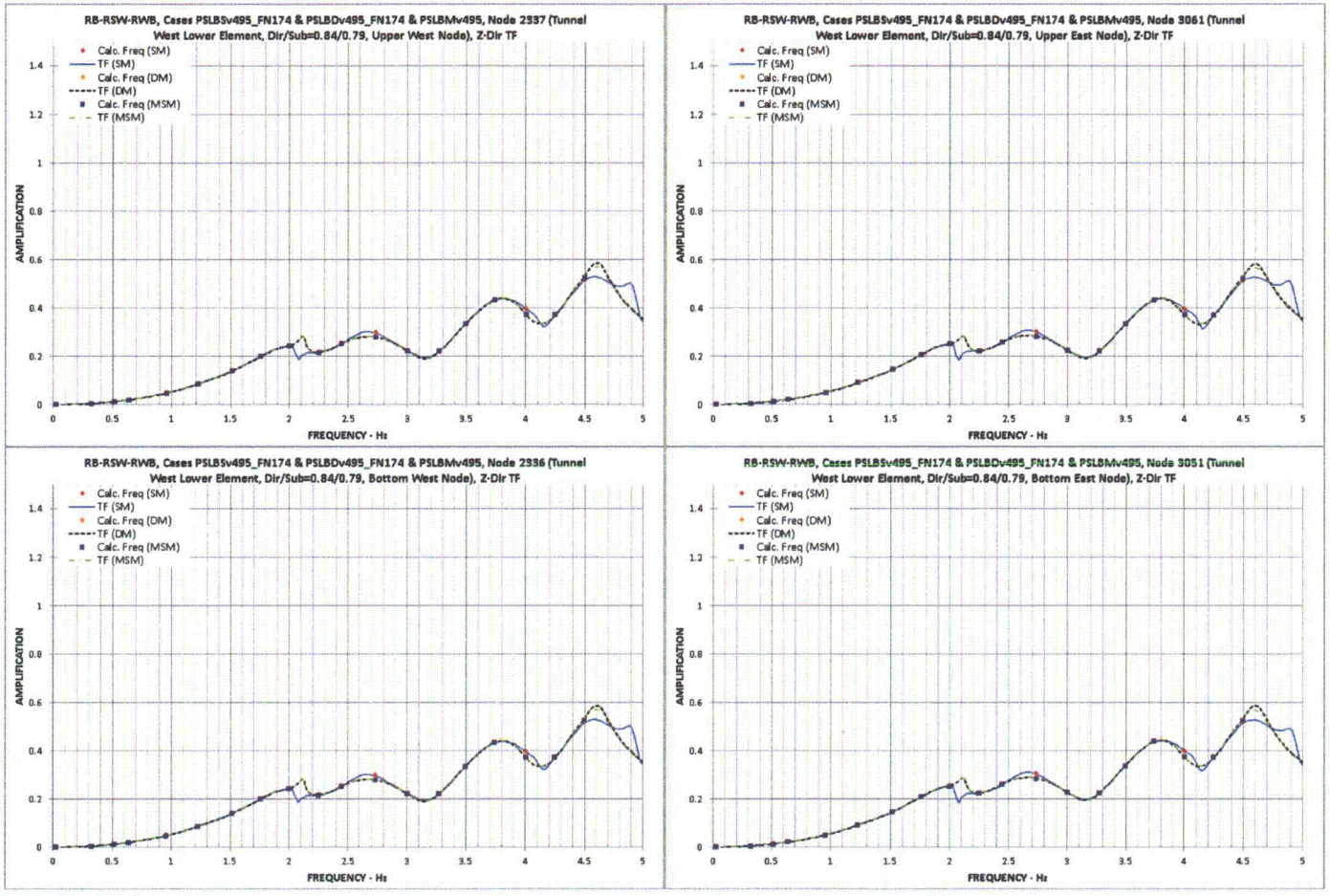

Figure 03.07.01-29 S1.130 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Lower, Dir/Sub Max Stress Ratio = 0.84/0.79, Z-Dir

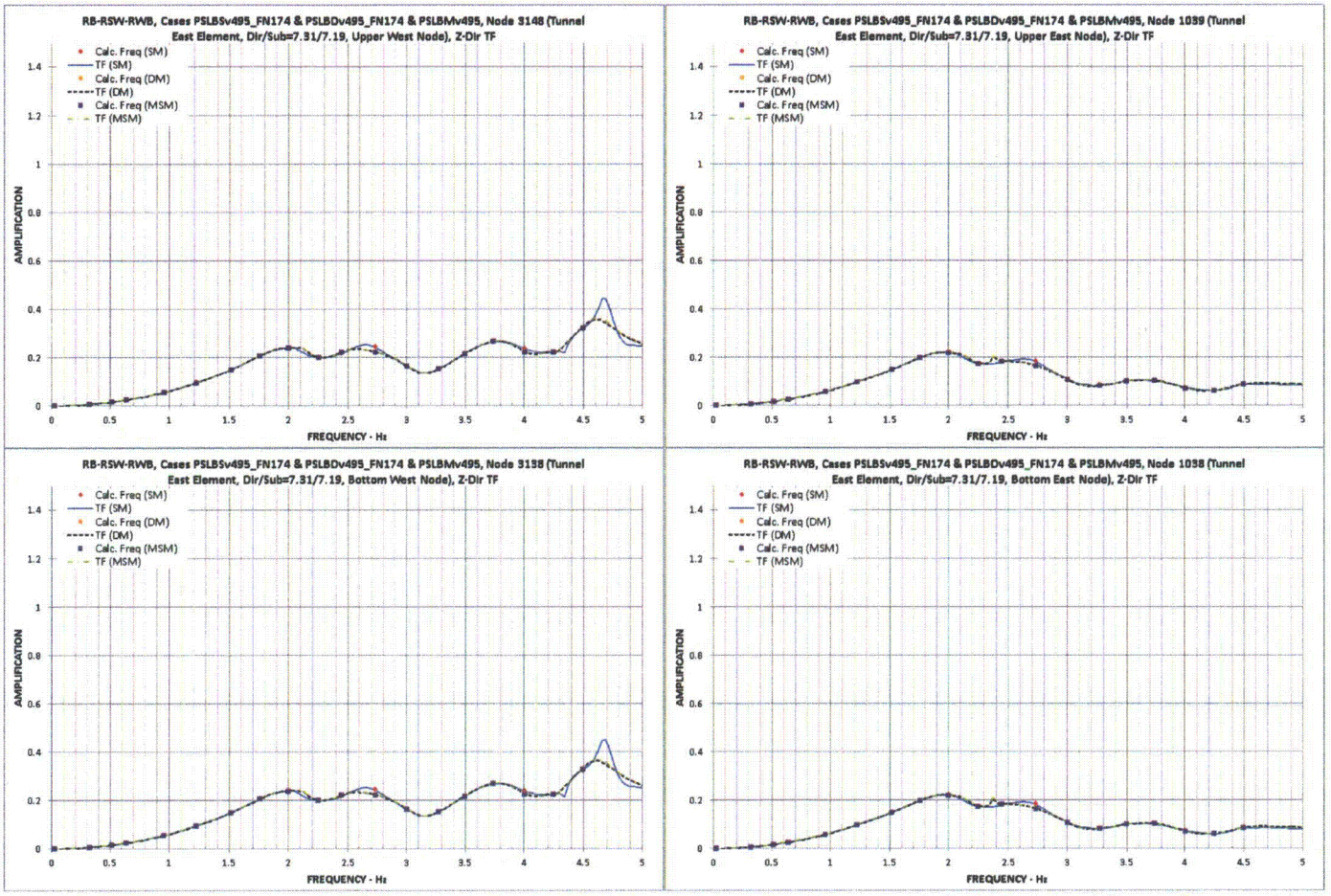

Figure 03.07.01-29 S1.131 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel East, Dir/Sub Max Stress Ratio = 7.31/7.19, Z-Dir

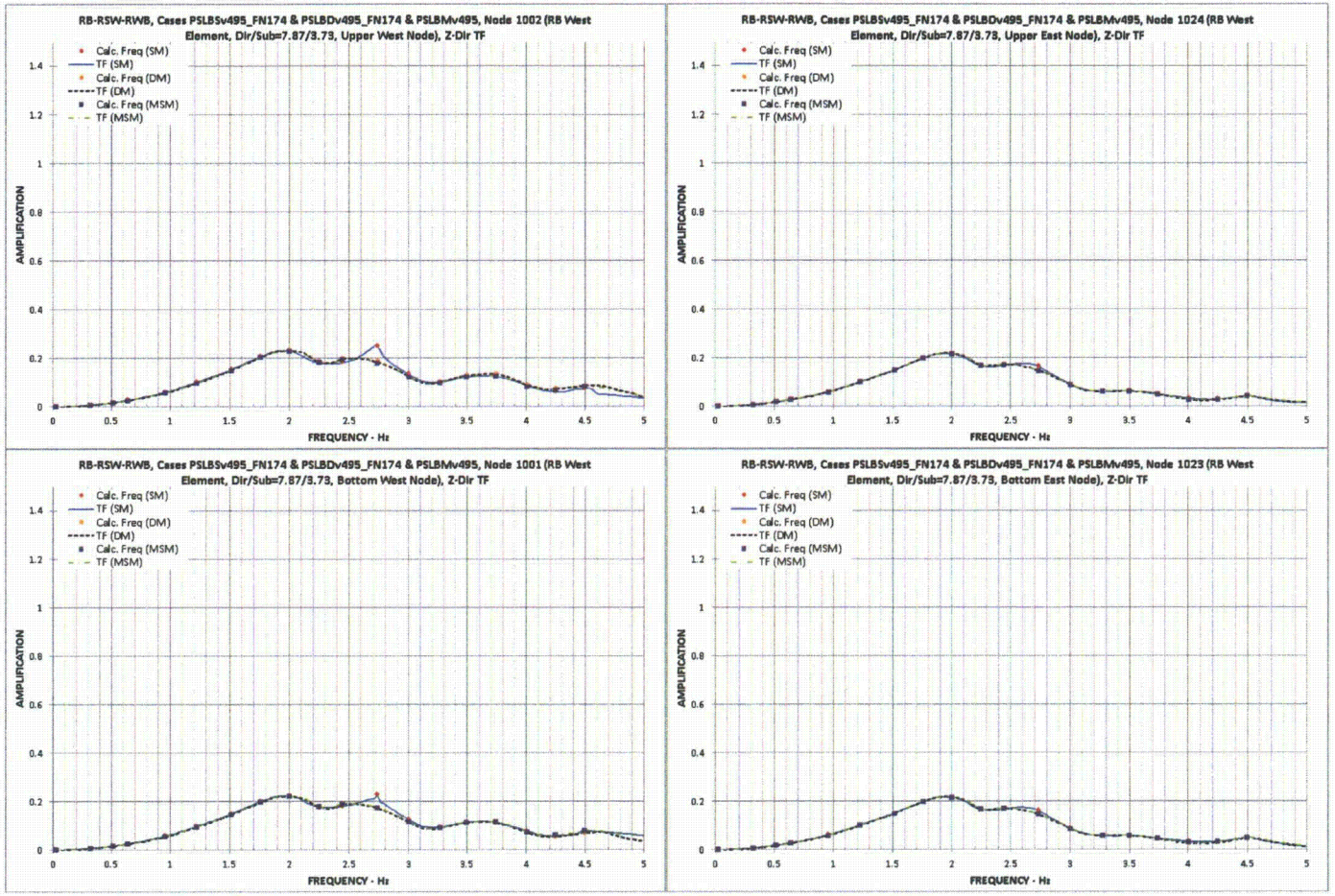

Figure 03.07.01-29 S1.132 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB West, Dir/Sub Max Stress Ratio = 7.87/3.73, Z-Dir

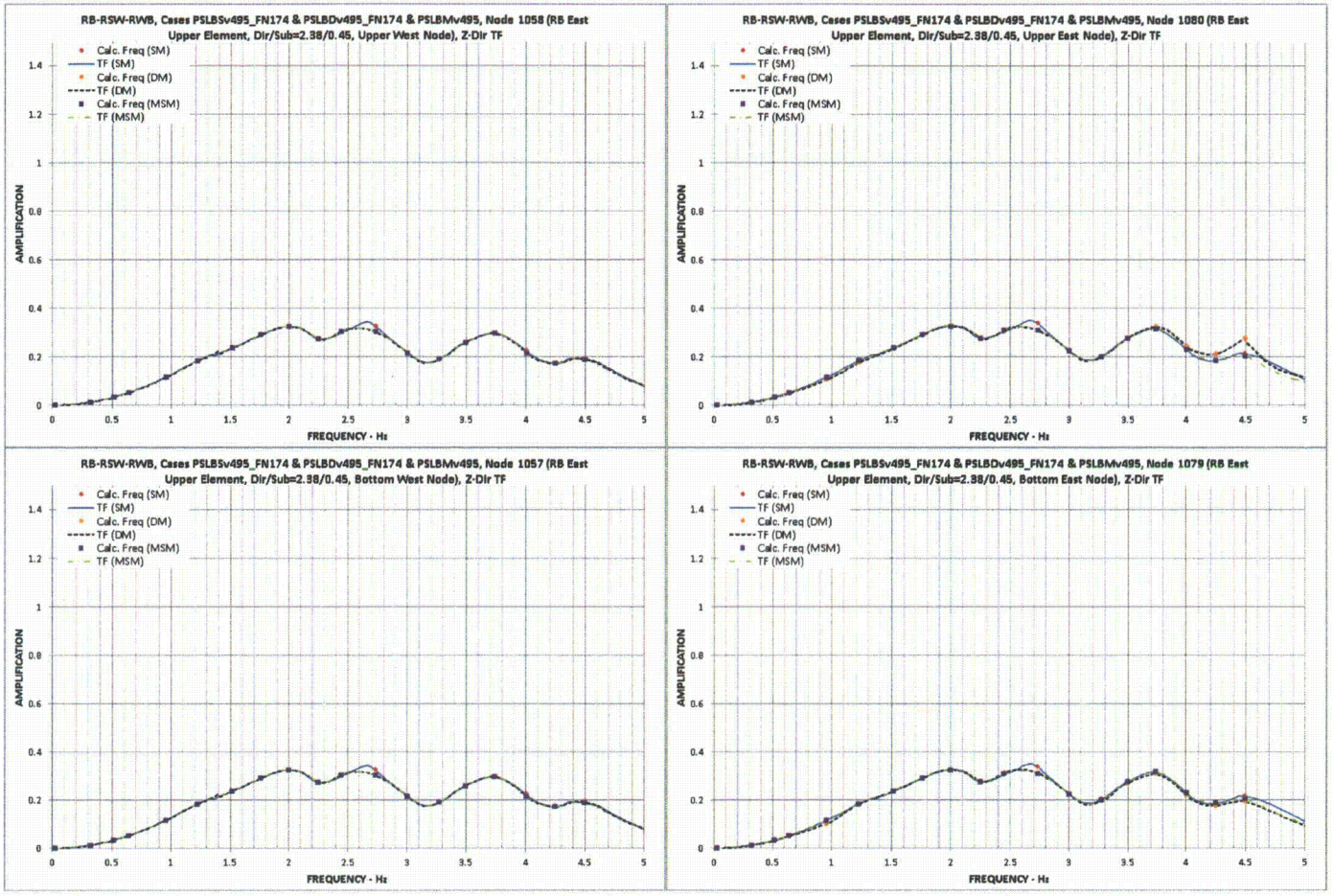

Figure 03.07.01-29 S1.133 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Upper, Dir/Sub Max Stress Ratio = 2.38/0.45, Z-Dir

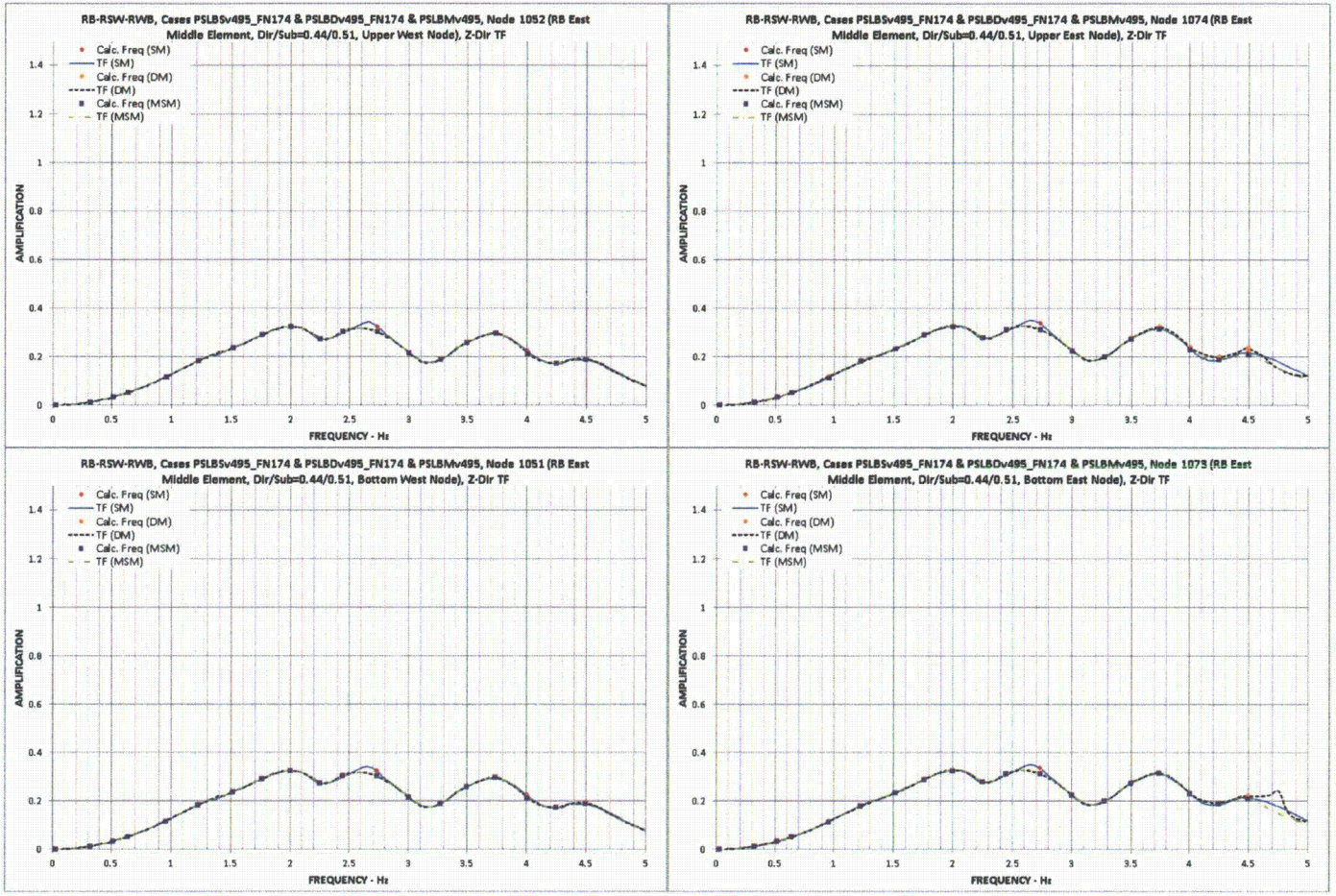

Figure 03.07.01-29 S1.134 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Middle, Dir/Sub Max Stress Ratio = 0.44/0.51, Z-Dir

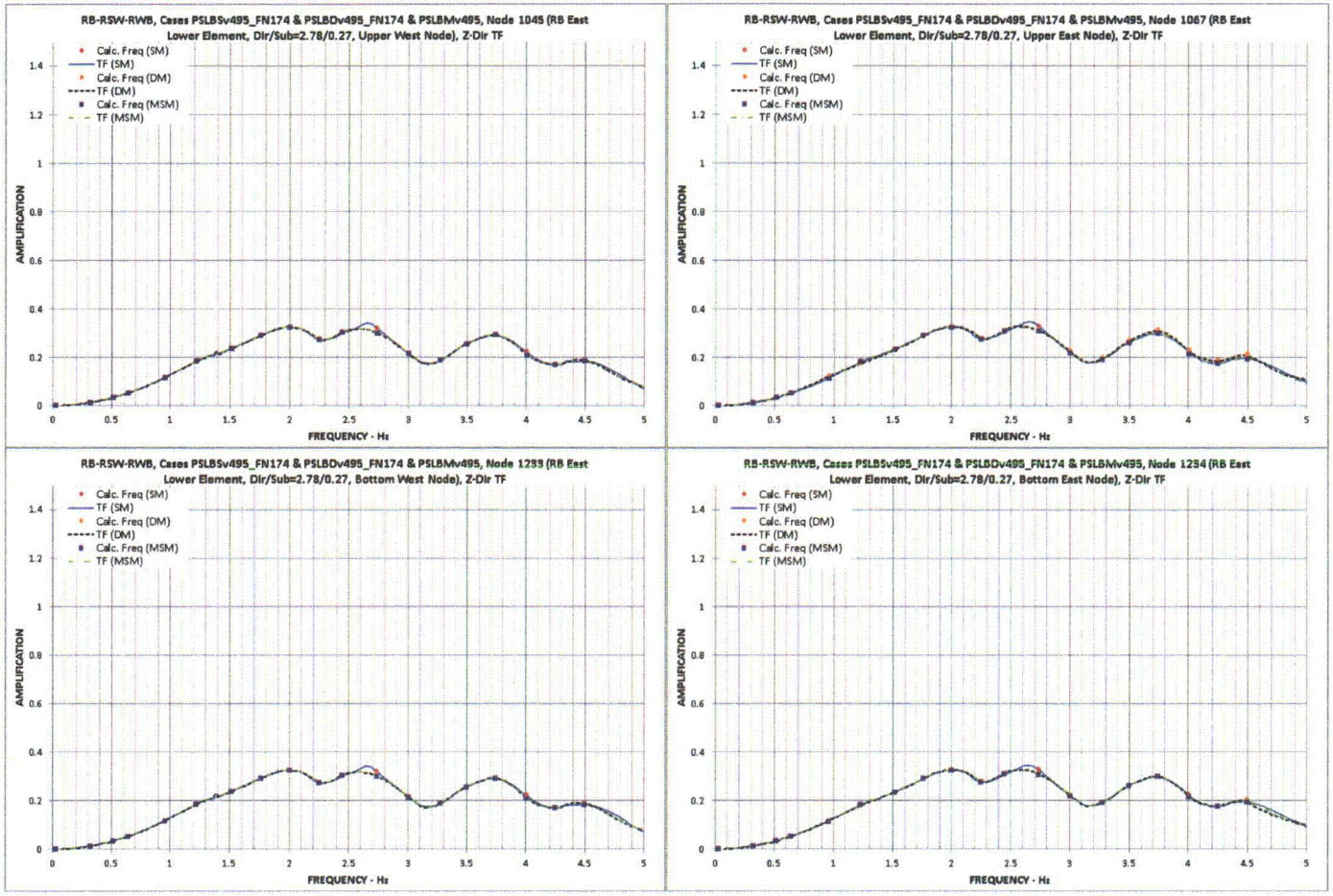

Figure 03.07.01-29 S1.135 - Transfer Functions (0--5 Hz, Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Lower, Dir/Sub Max Stress Ratio = 2.78/0.27, Z-Dir

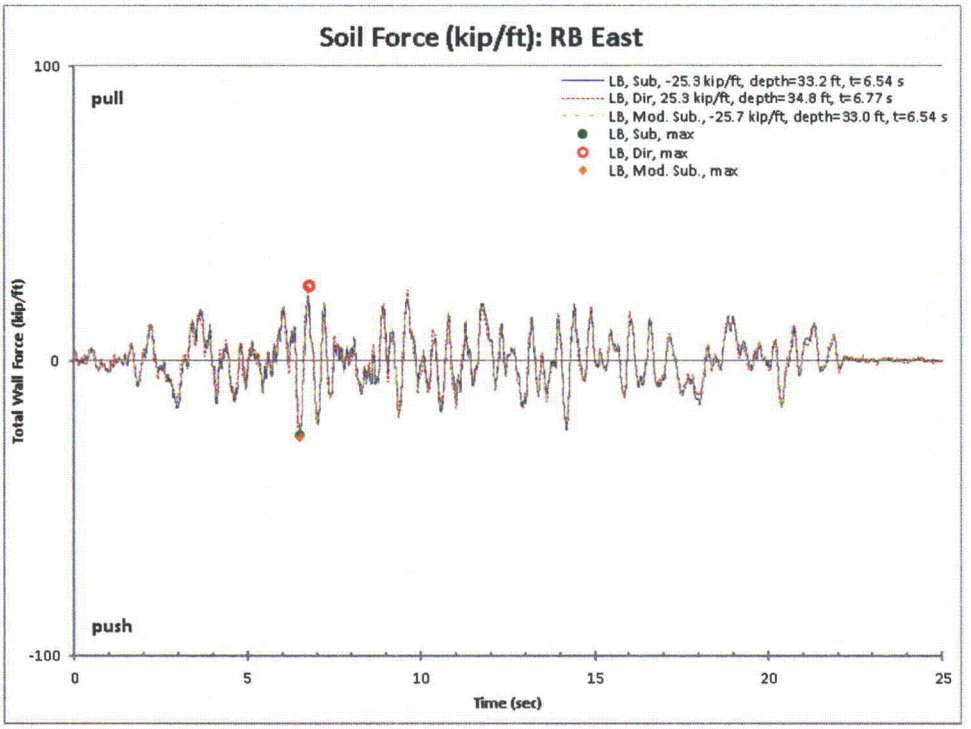

Figure 03.07.01-29 S1.136: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RB East Wall, Lower Bound In-Situ

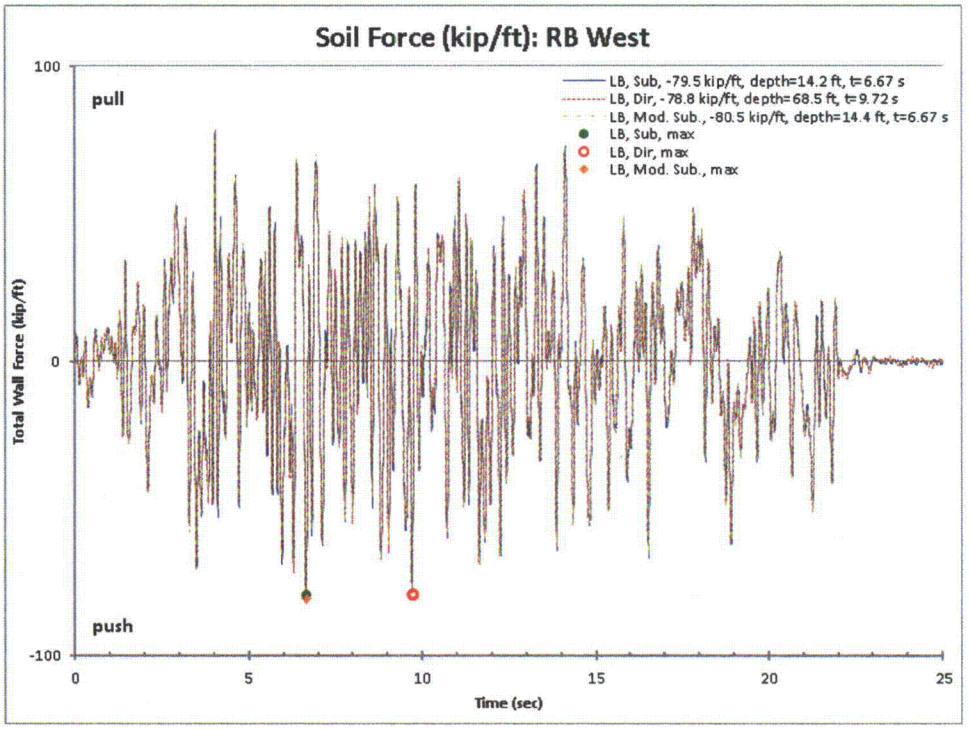

Figure 03.07.01-29 S1.137: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RB West Wall, Lower Bound In-Situ

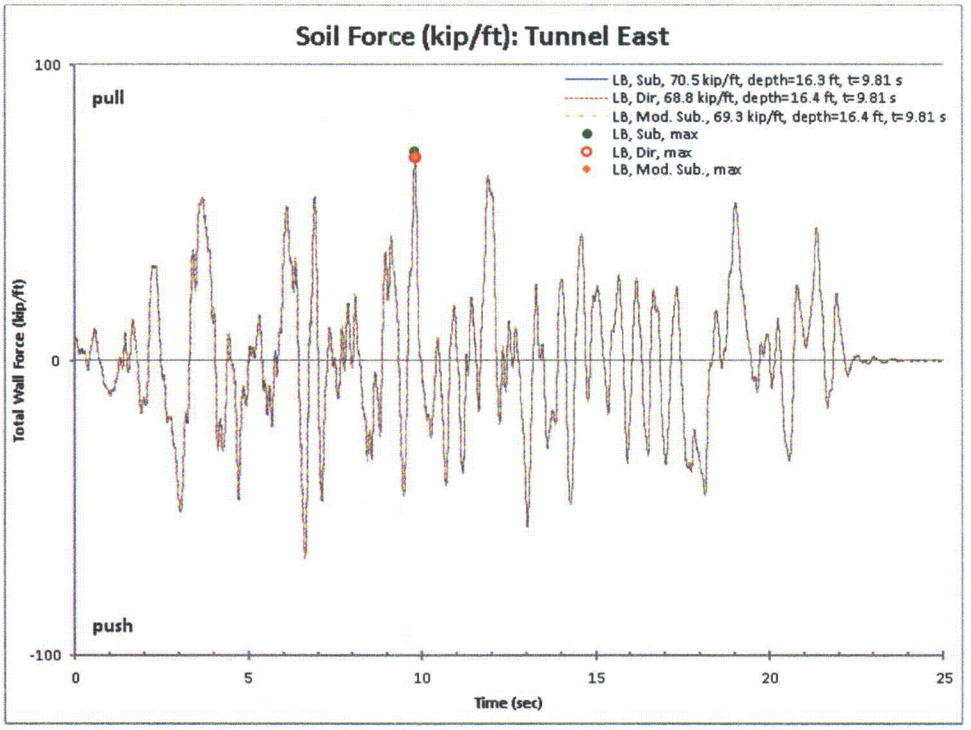

Figure 03.07.01-29 S1.138: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel East Wall, Lower Bound In-Situ

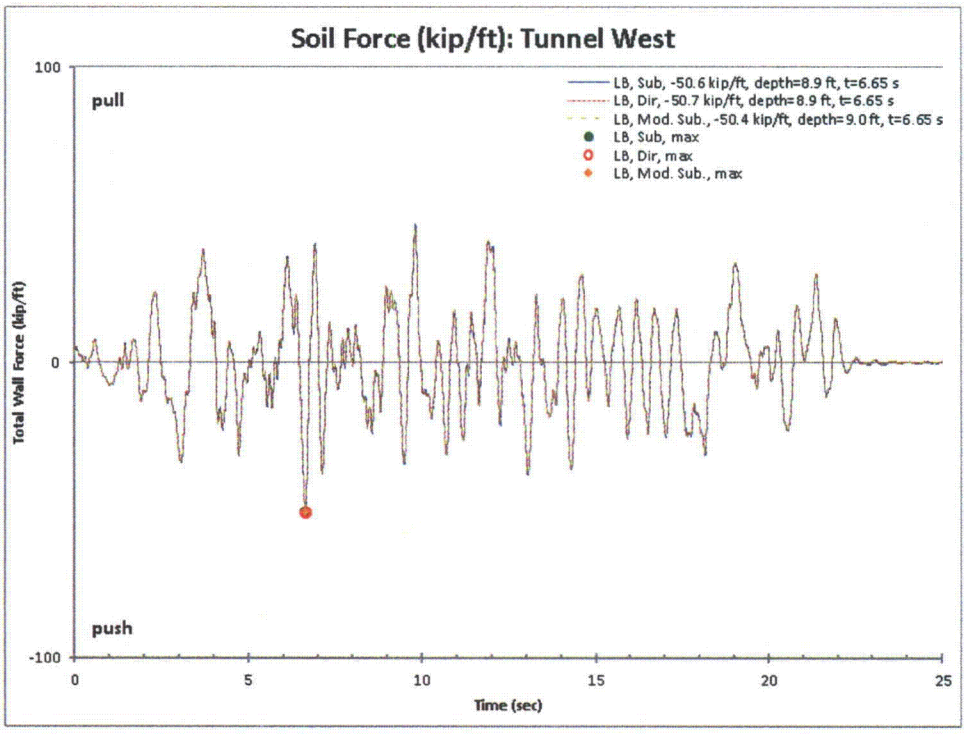

Figure 03.07.01-29 S1.139: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel West Wall, Lower Bound In-Situ

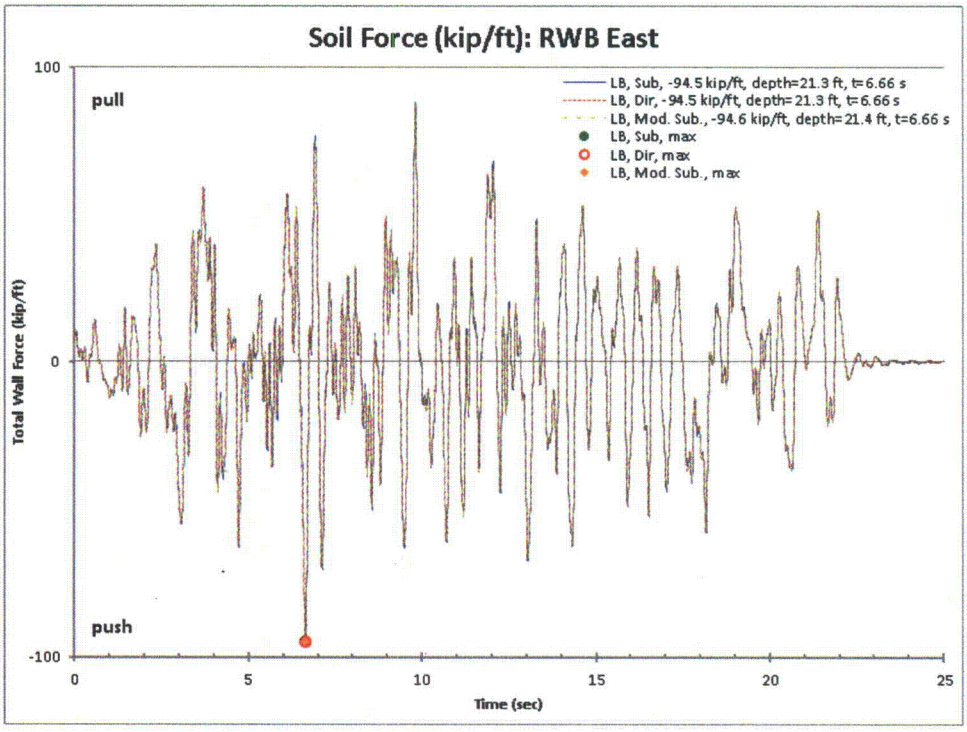

Figure 03.07.01-29 S1.140: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RWB East Wall, Lower Bound In-Situ

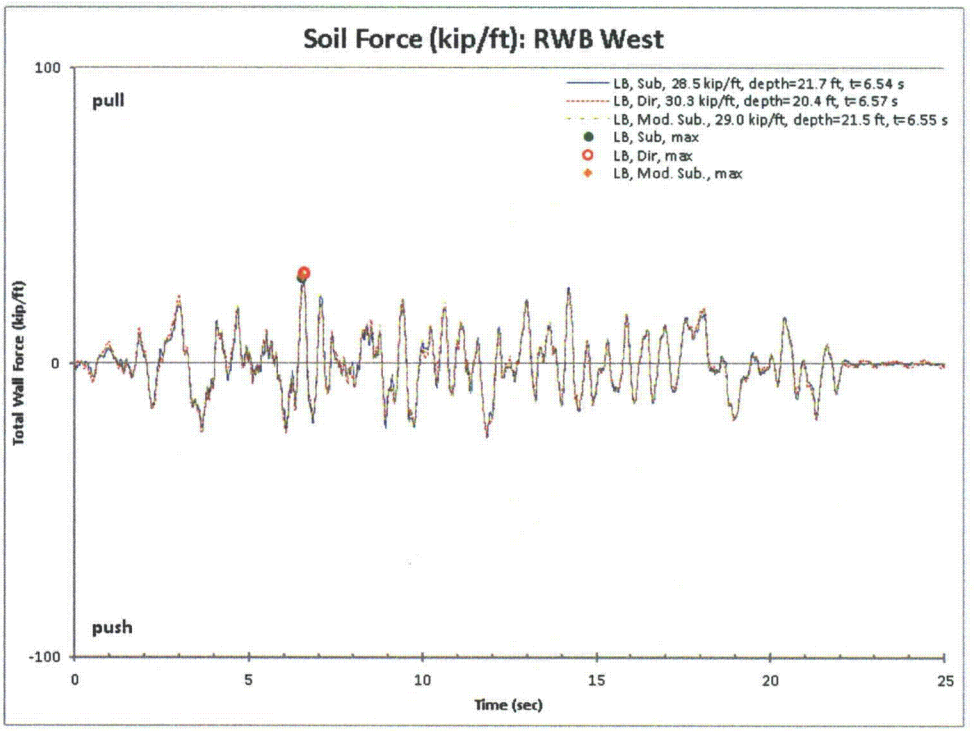

Figure 03.07.01-29 S1.141: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RWB West Wall, Lower Bound In-Situ

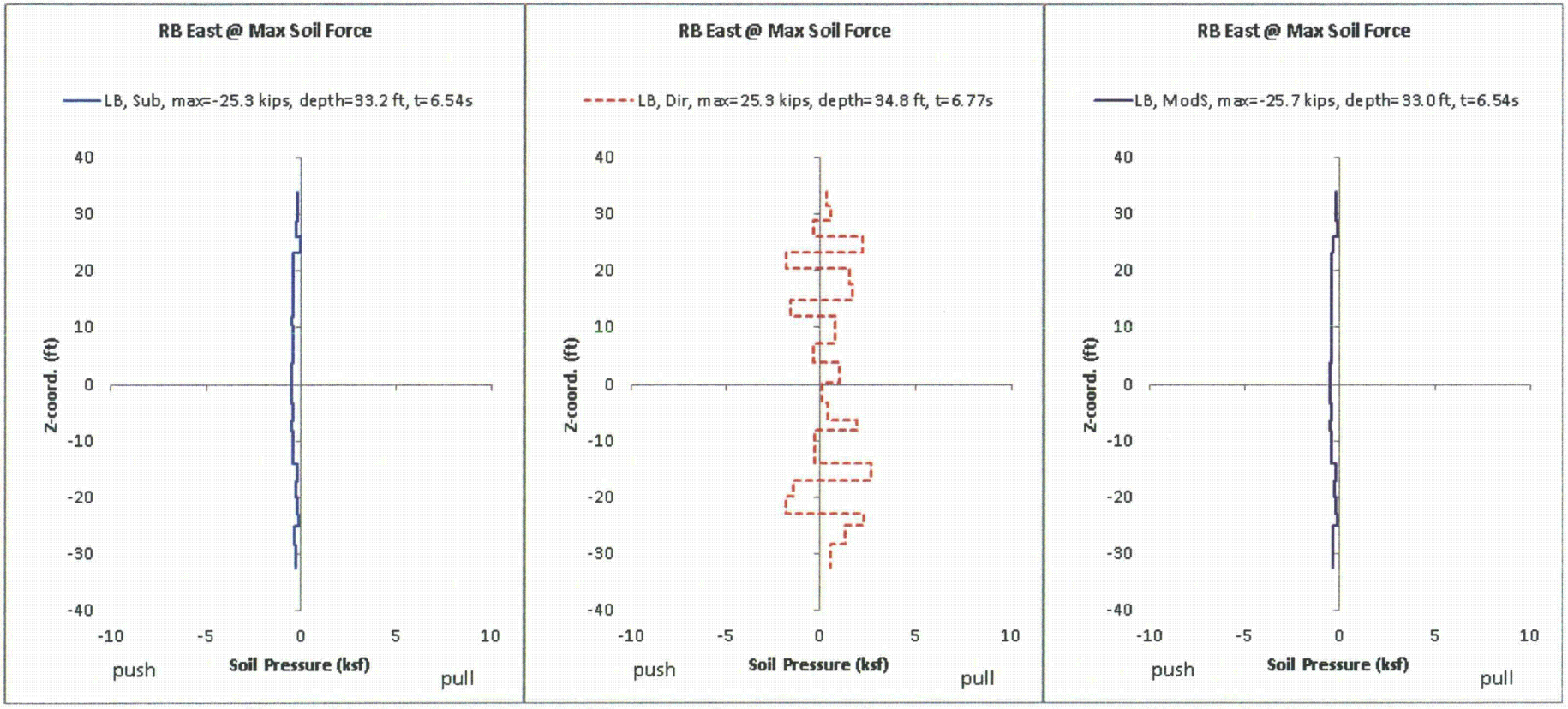

Figure 03.07.01-29 S1.142: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB East Wall, Lower Bound In-Situ

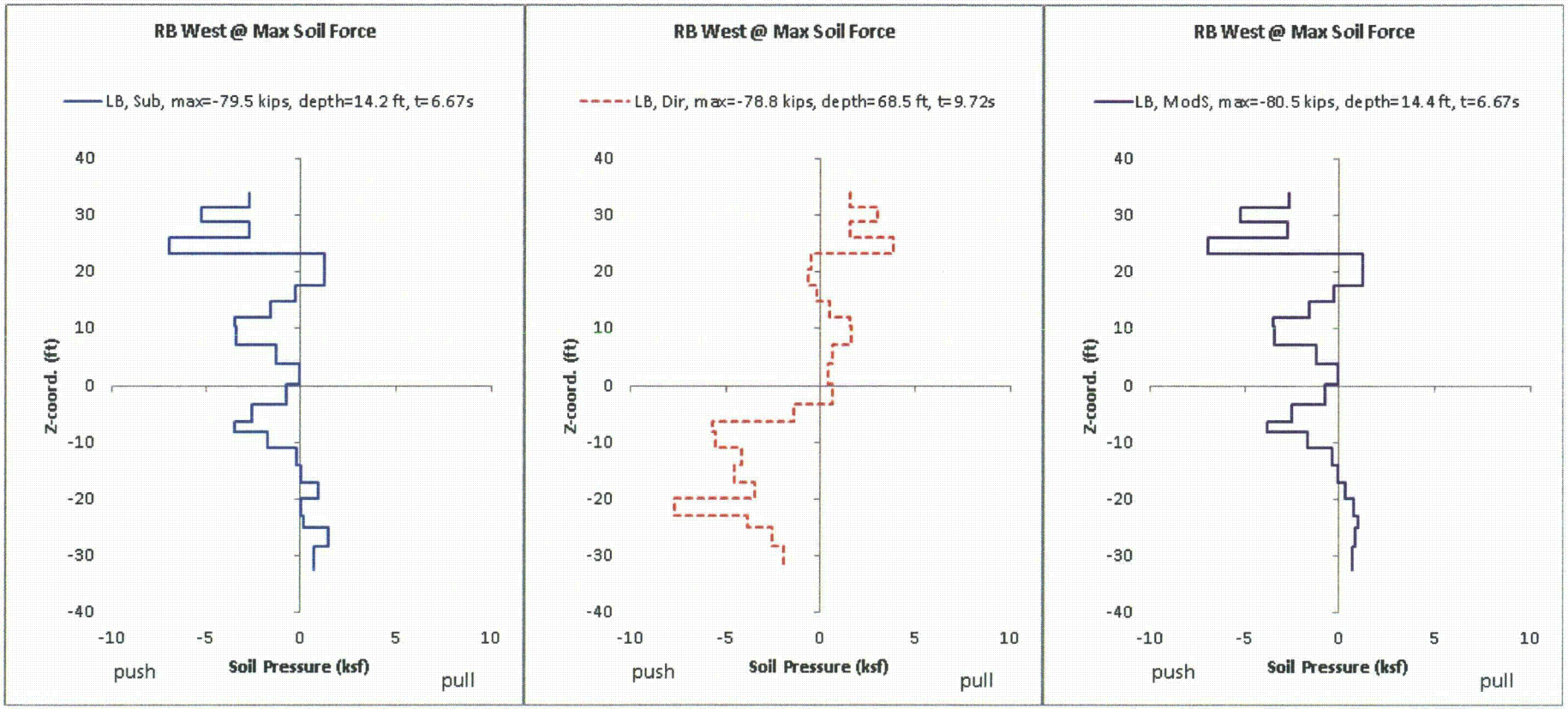

Figure 03.07.01-29 S1.143: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB West Wall, Lower Bound In-Situ

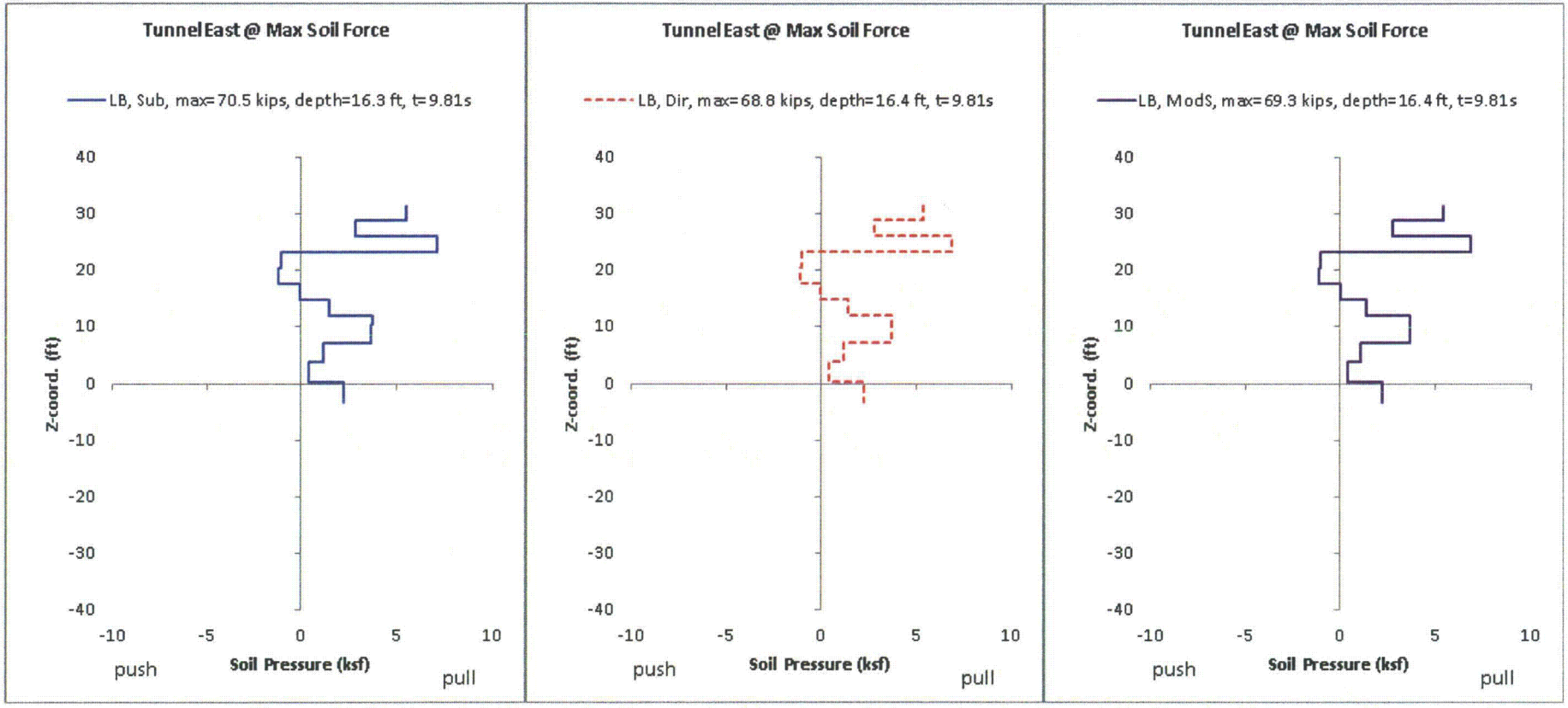

Figure 03.07.01-29 S1.144: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RSW Tunnel East Wall, Lower Bound In-Situ

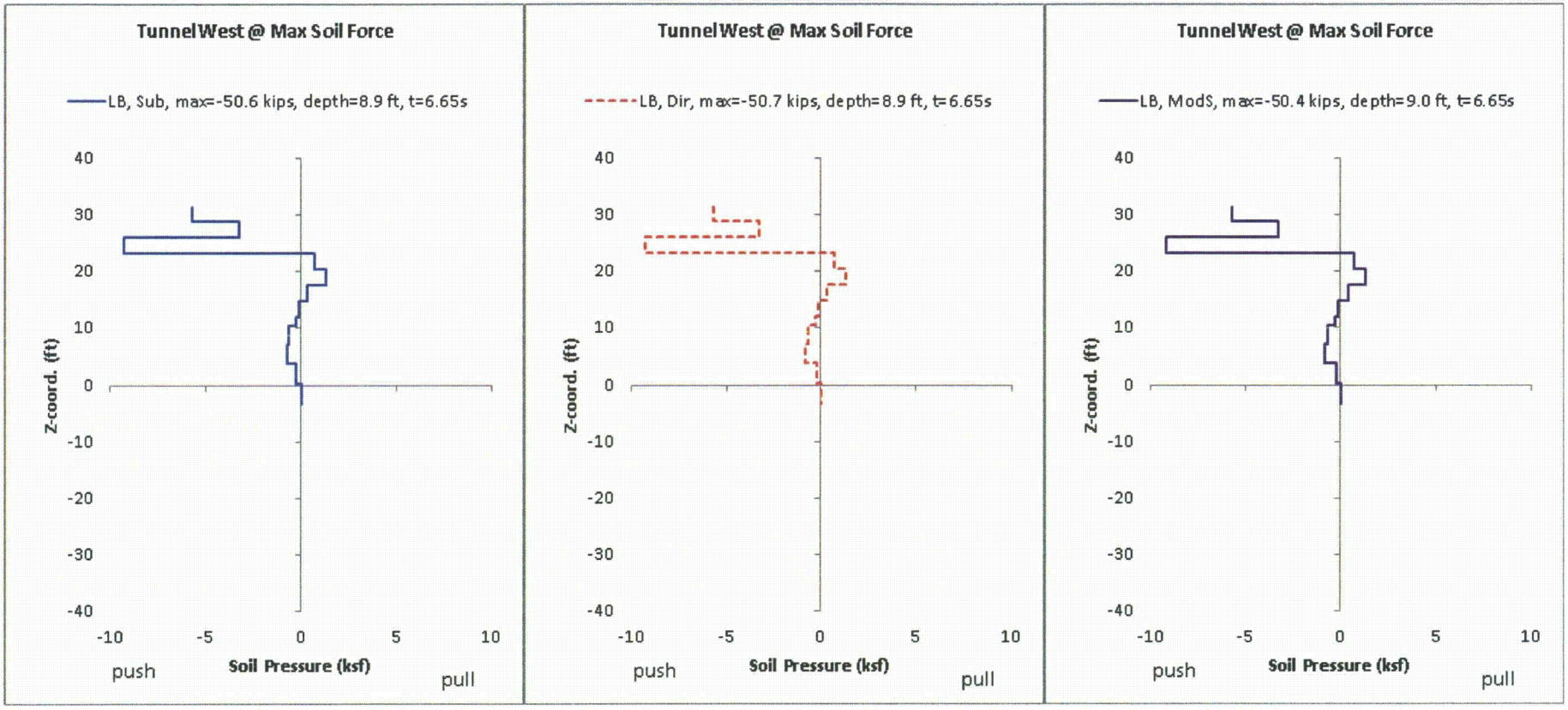

Figure 03.07.01-29 S1.145: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RSW Tunnel West Wall, Lower Bound In-Situ

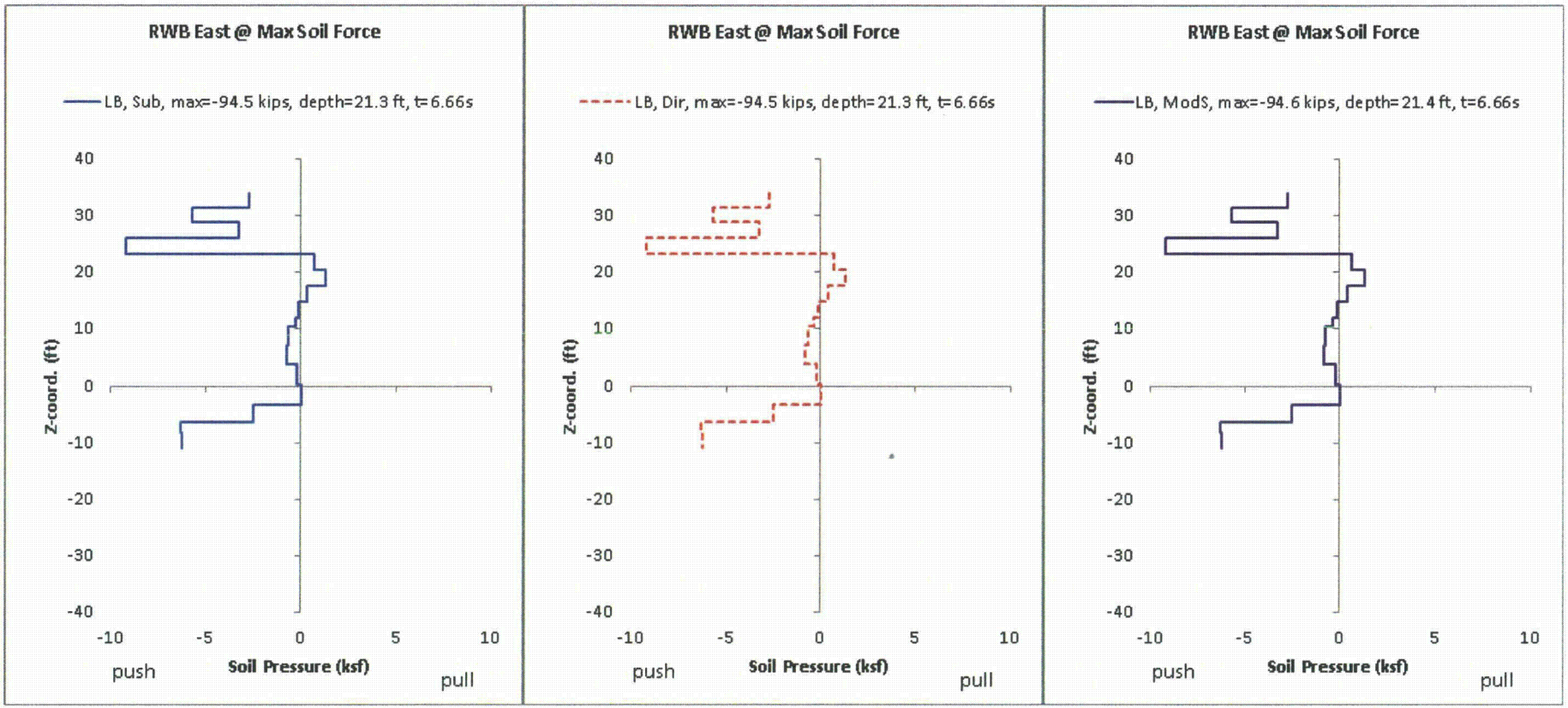

Figure 03.07.01-29 S1.146: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RWB East Wall, Lower Bound In-Situ

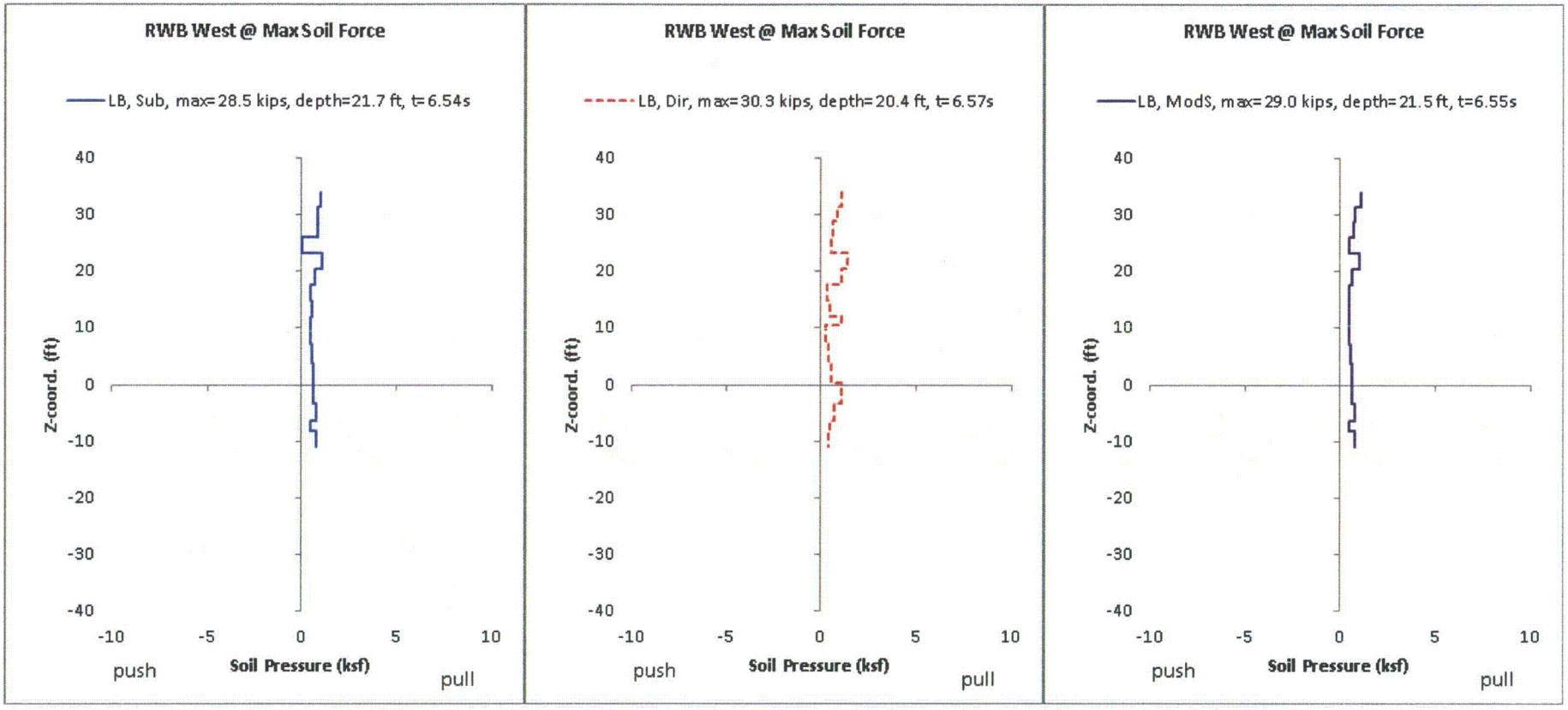

Figure 03.07.01-29 S1.147: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RWB West Wall, Lower Bound In-Situ

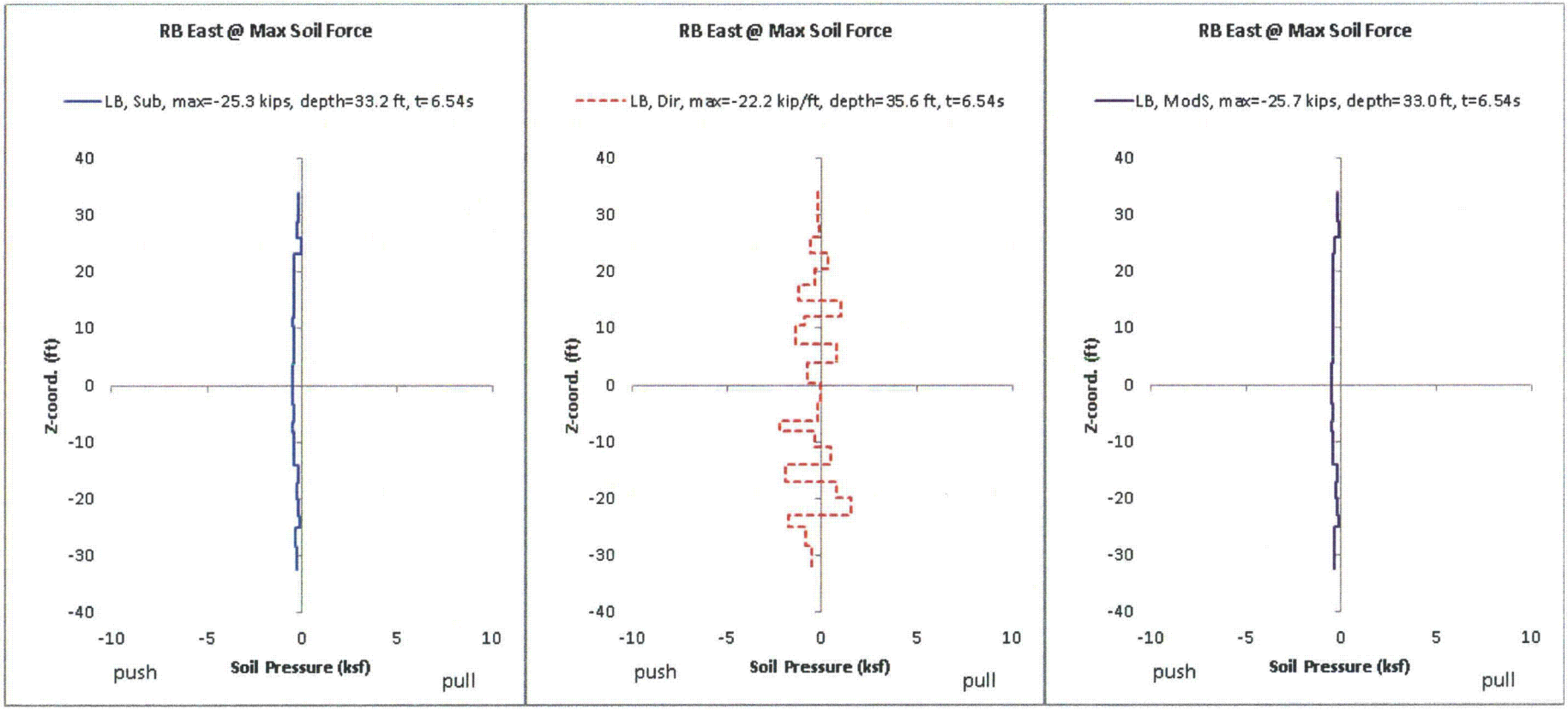

Figure 03.07.01-29 S1.148: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB East Wall, Lower Bound In-Situ

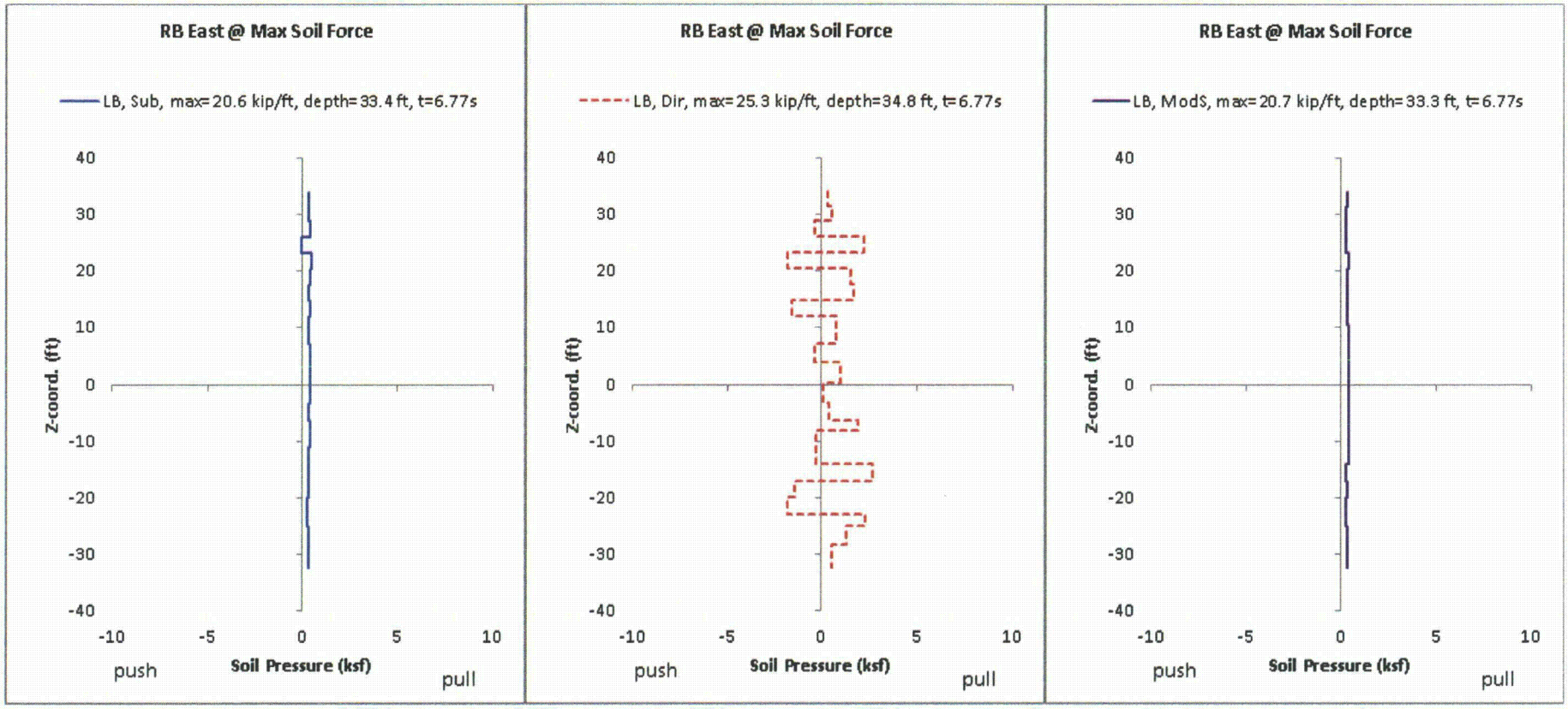

Figure 03.07.01-29 S1.149: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB East Wall, Lower Bound In-Situ

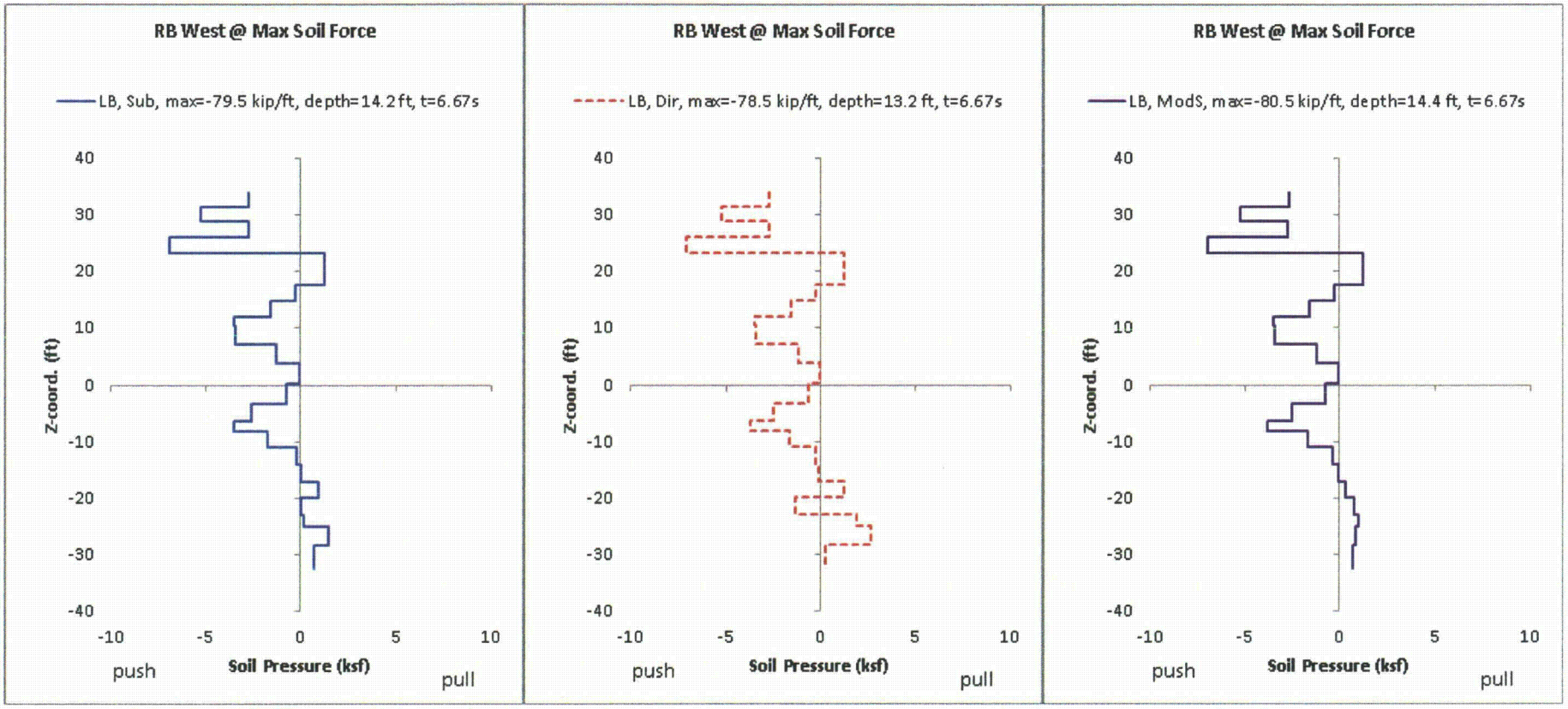

Figure 03.07.01-29 S1.150: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB West Wall, Lower Bound In-Situ

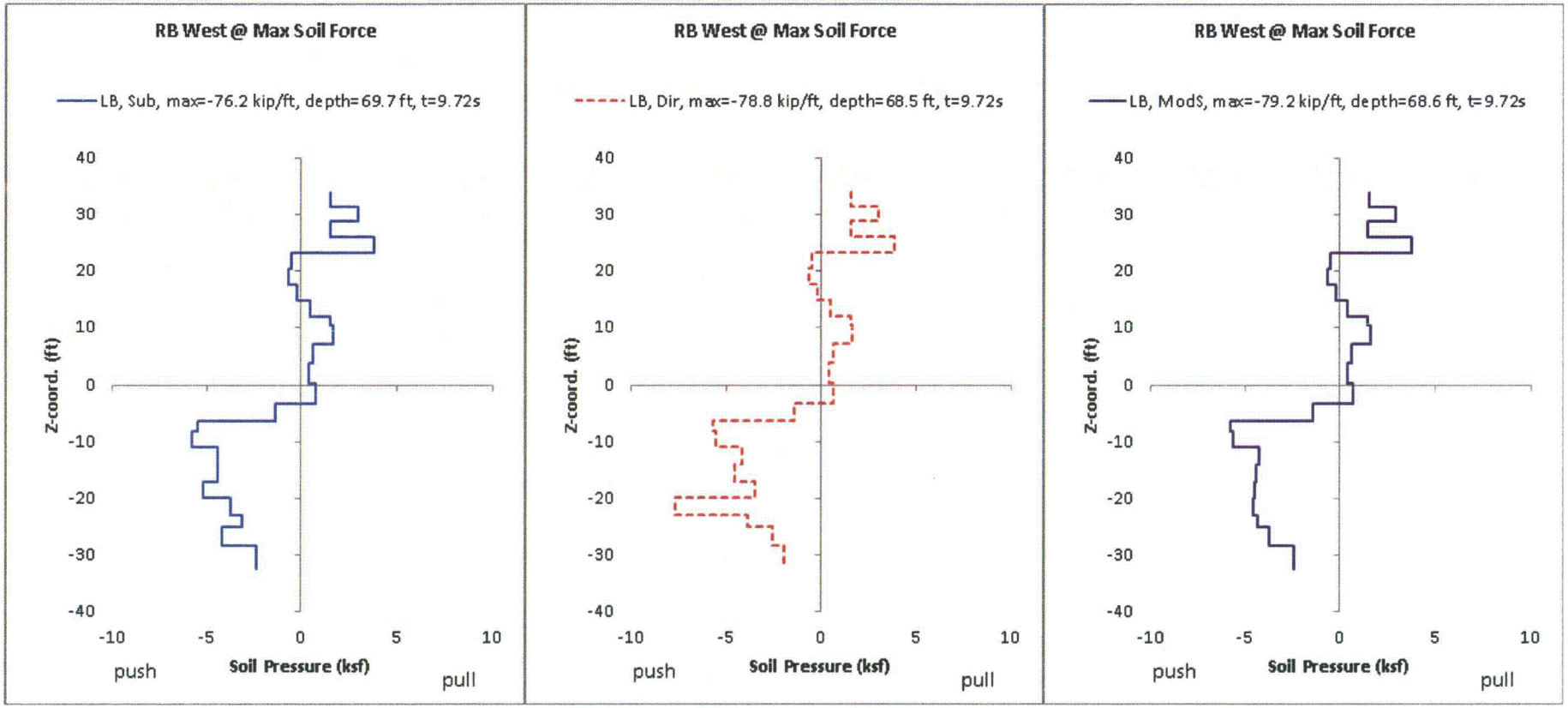

Figure 03.07.01-29 S1.151: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB West Wall, Lower Bound In-Situ

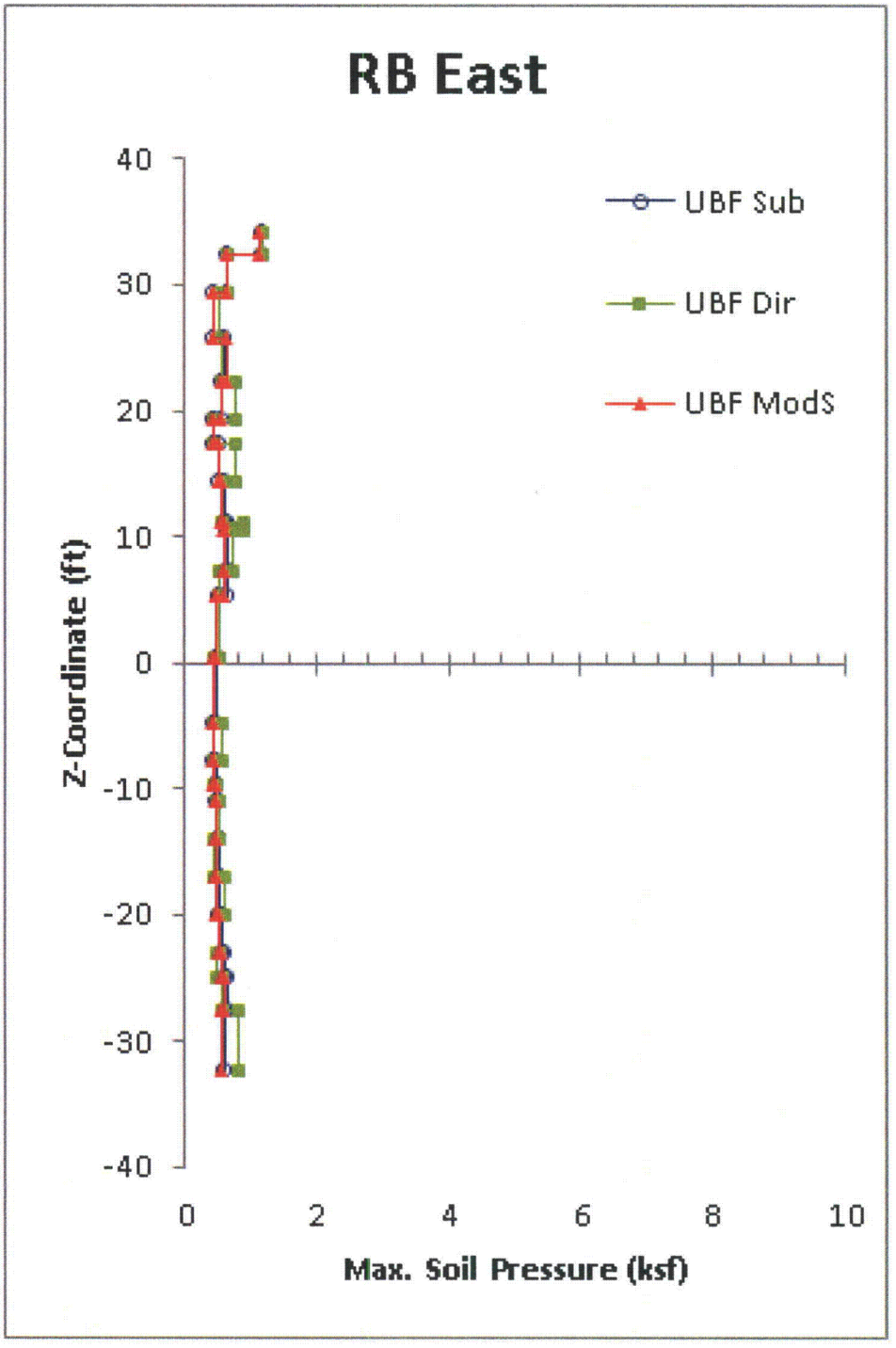

Figure 03.07.01-29 S1.152: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RB East Wall, Upper Bound Backfill

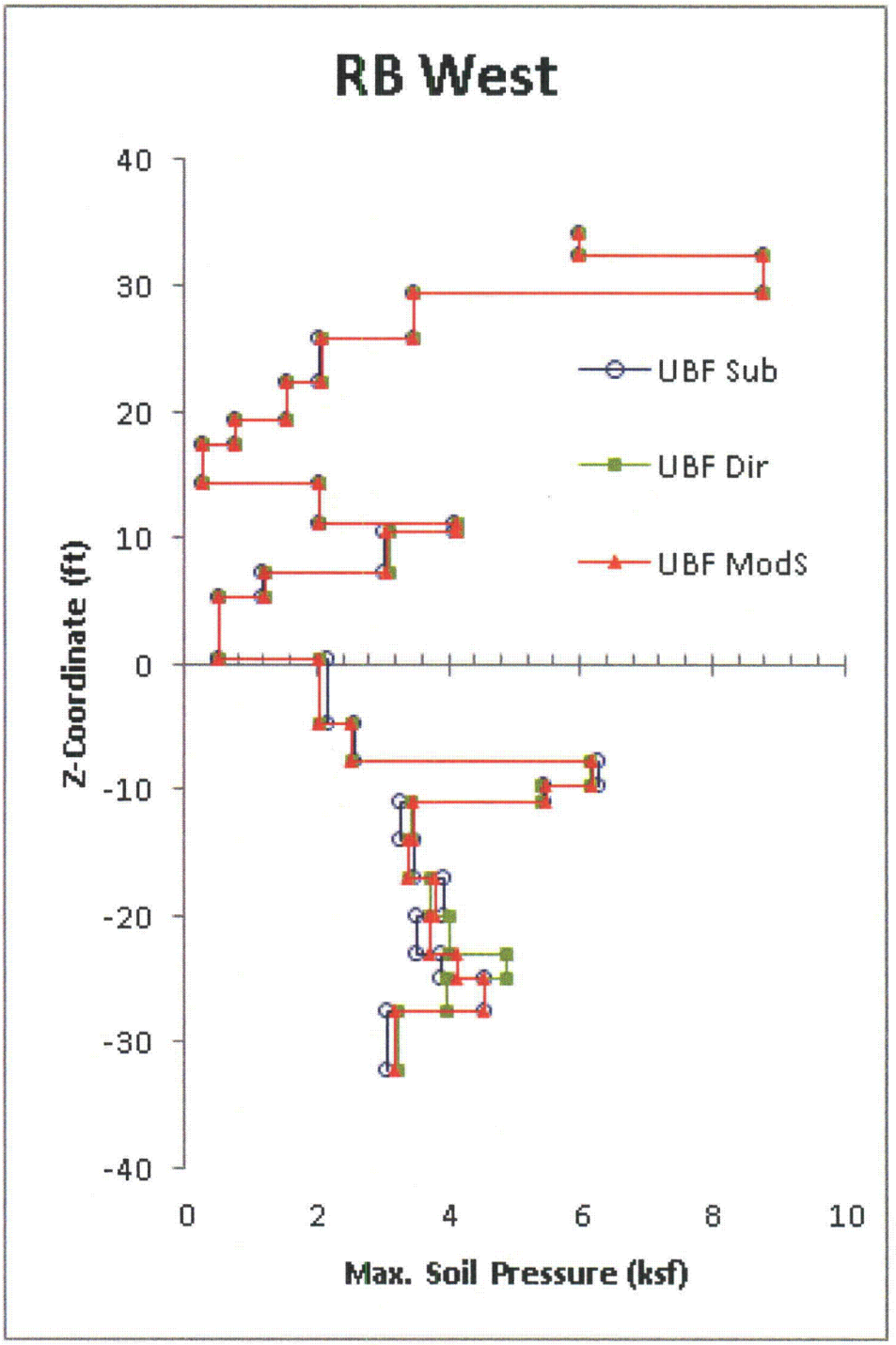

Figure 03.07.01-29 S1.153: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RB West Wall, Upper Bound Backfill

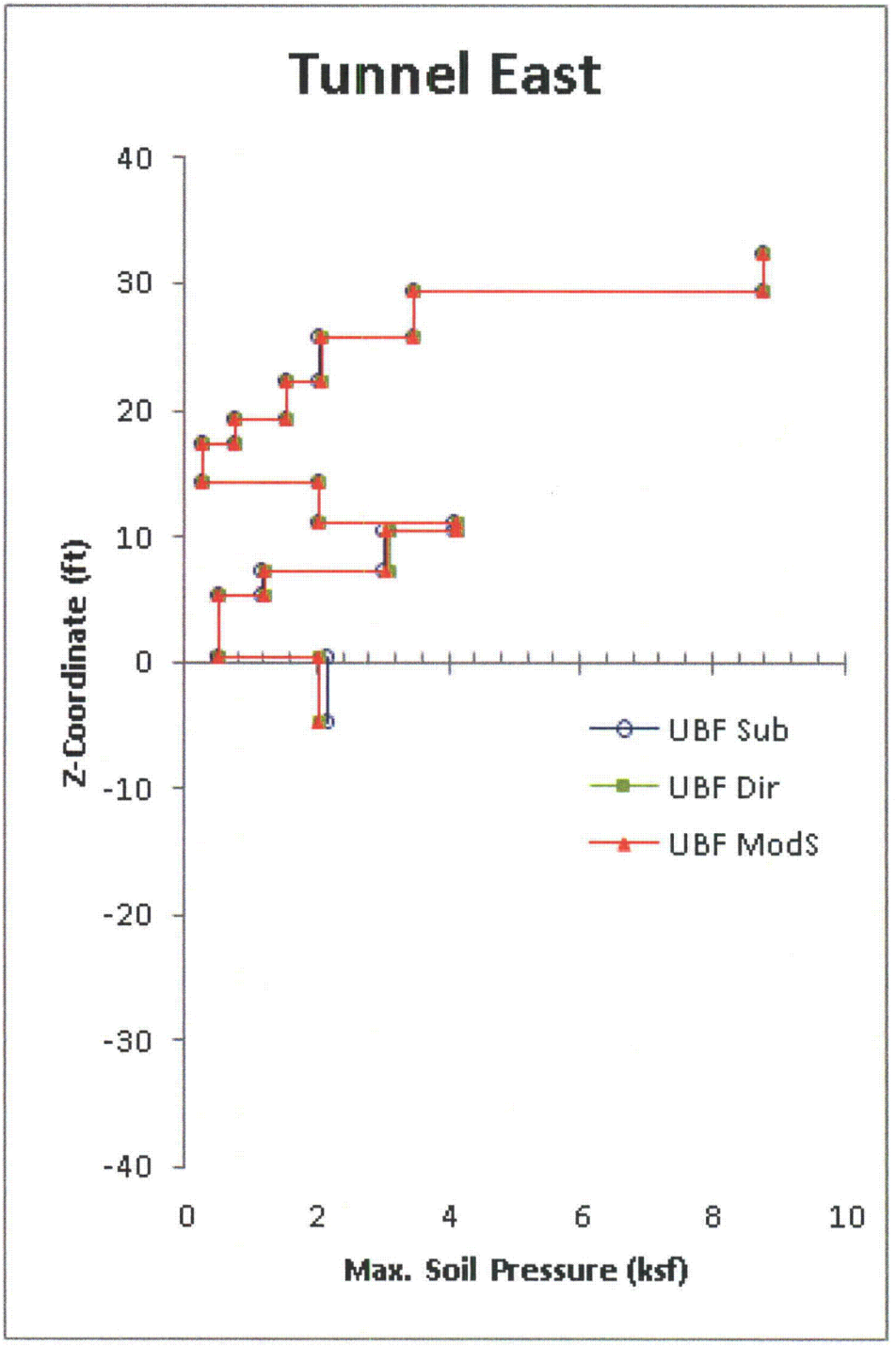

Figure 03.07.01-29 S1.154: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel East Wall, Upper Bound Backfill

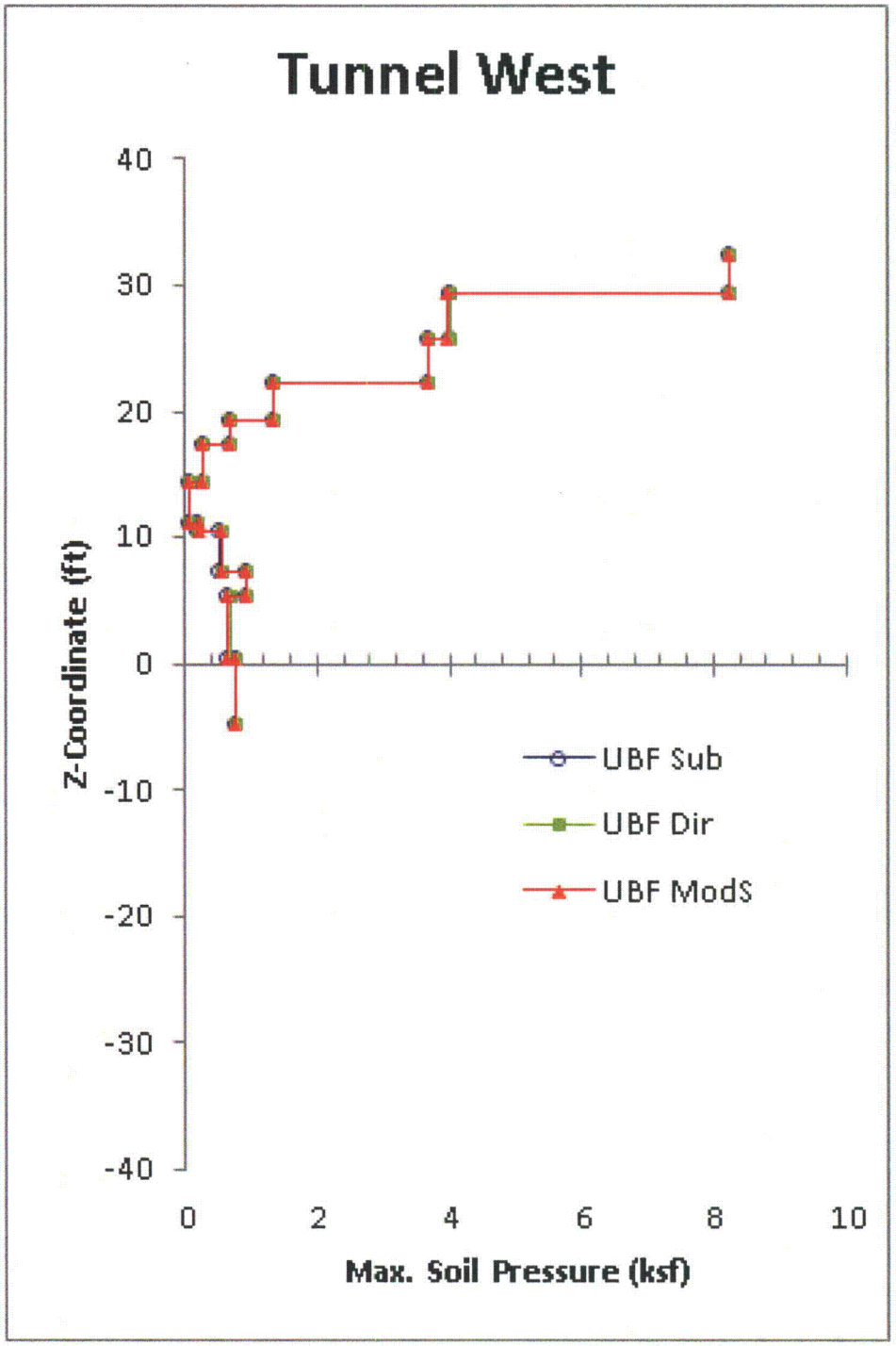

Figure 03.07.01-29 S1.155: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel West Wall, Upper Bound Backfill

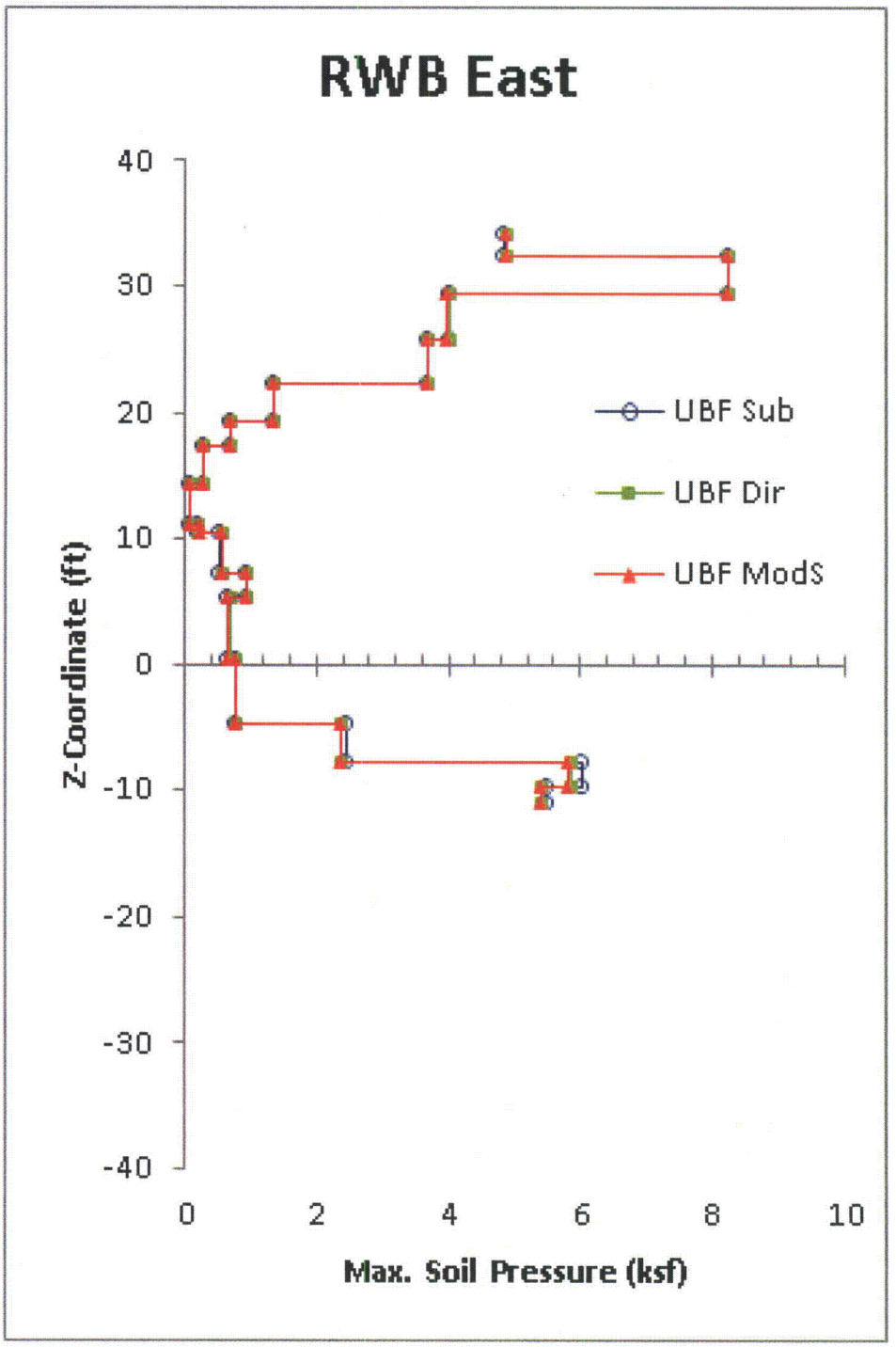

Figure 03.07.01-29 S1.156: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RWB East Wall, Upper Bound Backfill

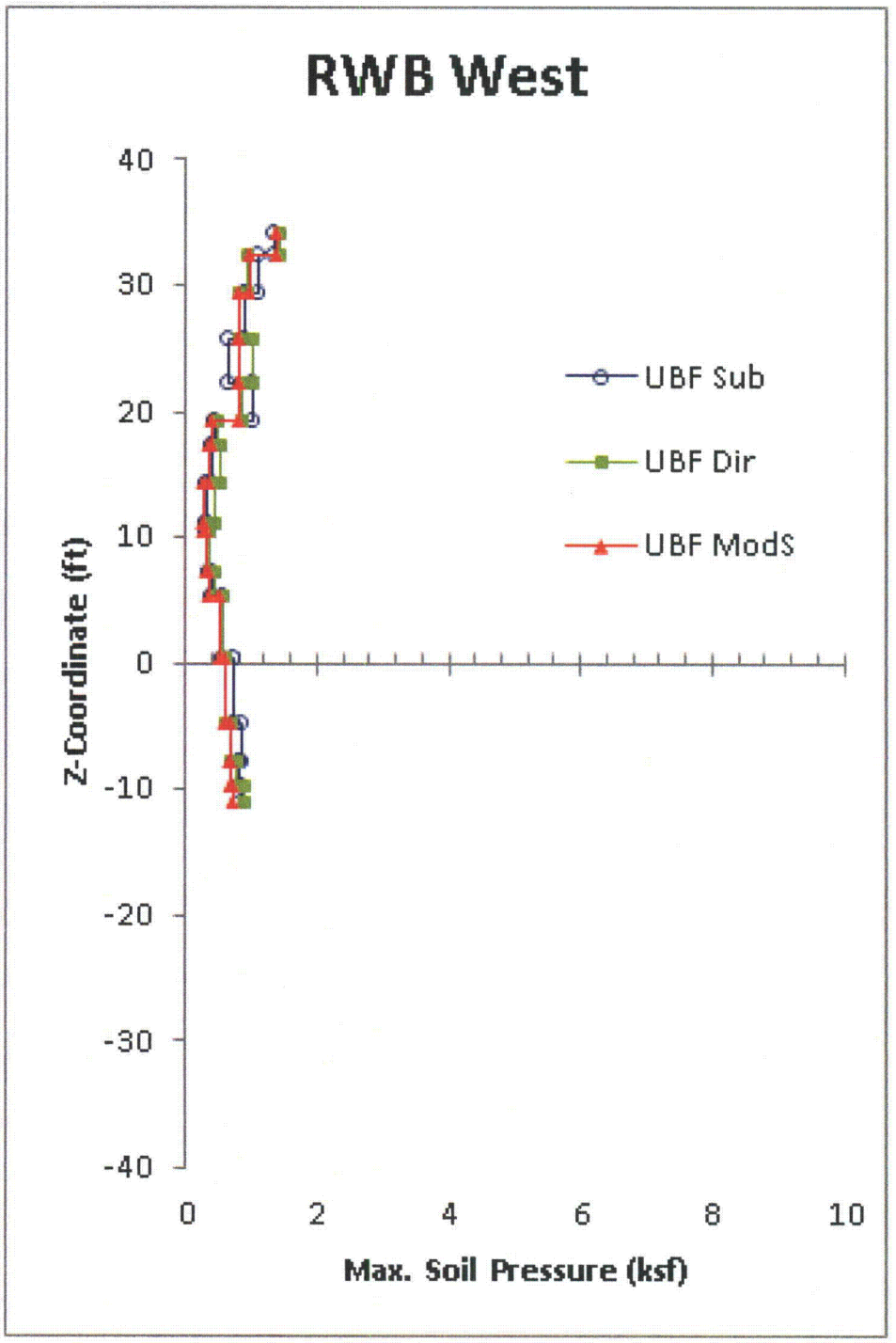

Figure 03.07.01-29 S1.157: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RWB West Wall, Upper Bound Backfill

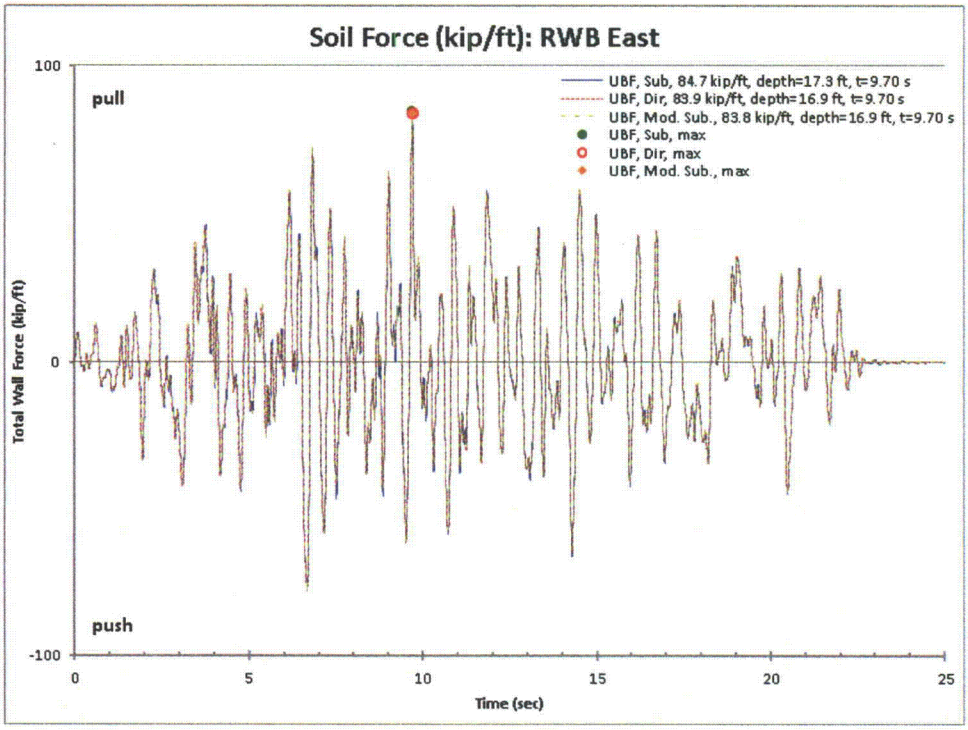

Figure 03.07.01-29 S1.158: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RWB East Wall, Upper Bound Backfill

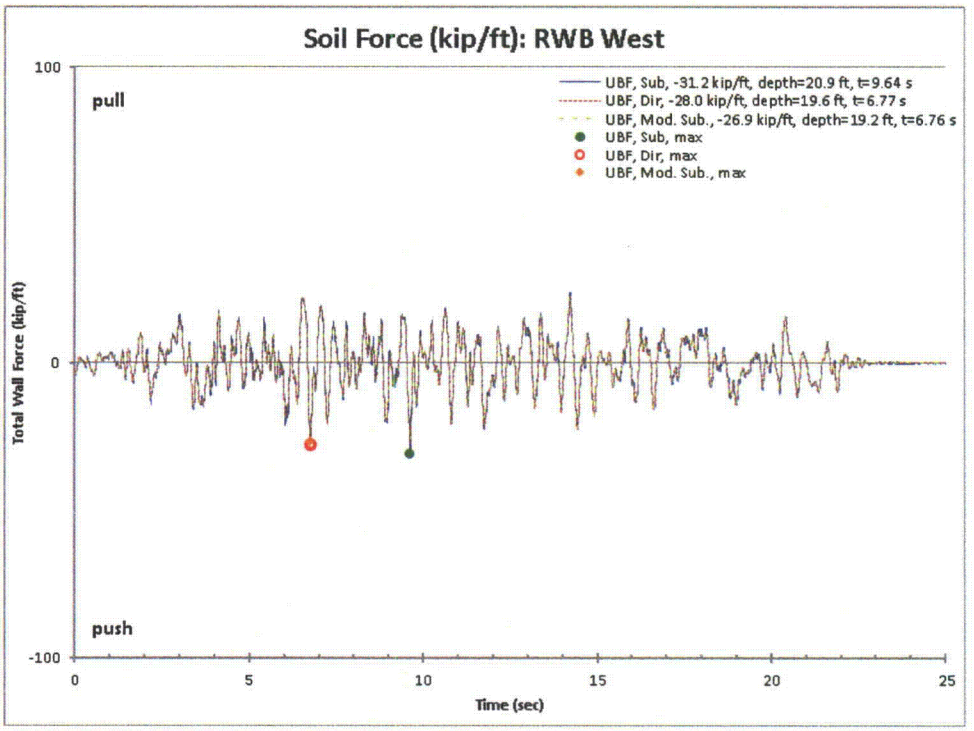

Figure 03.07.01-29 S1.159: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RWB West Wall, Upper Bound Backfill

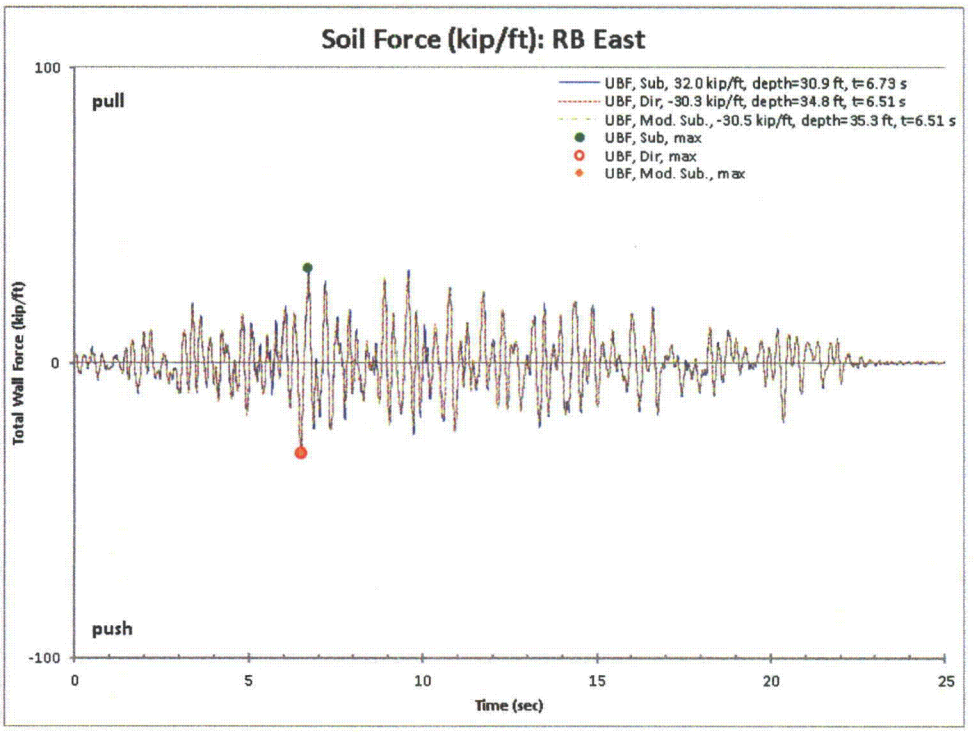

Figure 03.07.01-29 S1.160: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RB East Wall, Upper Bound Backfill

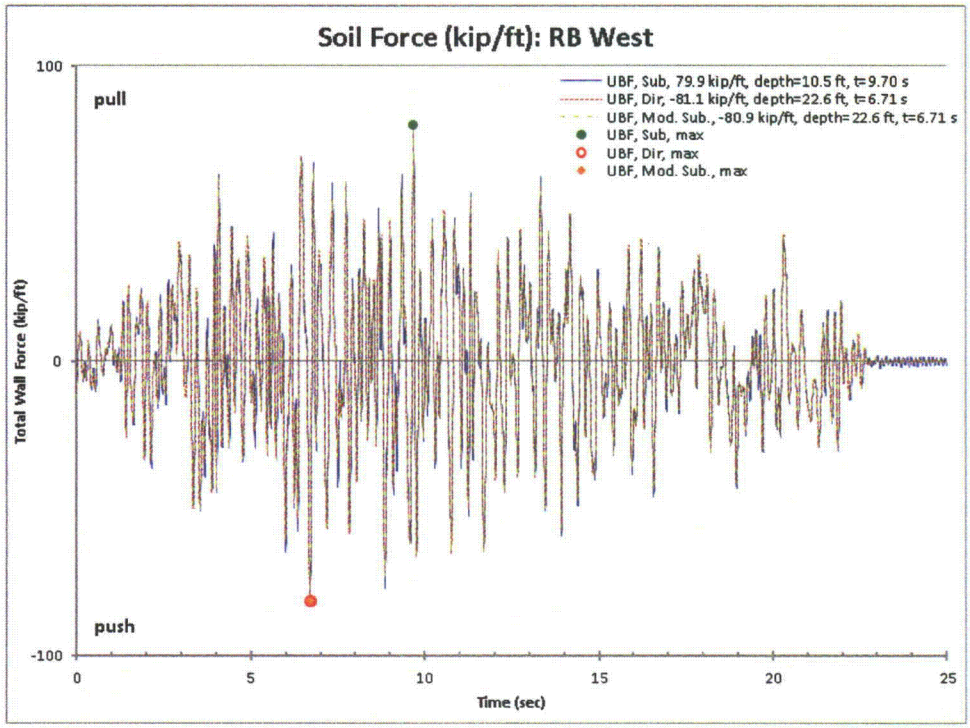

Figure 03.07.01-29 S1.161: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), RB West Wall, Upper Bound Backfill

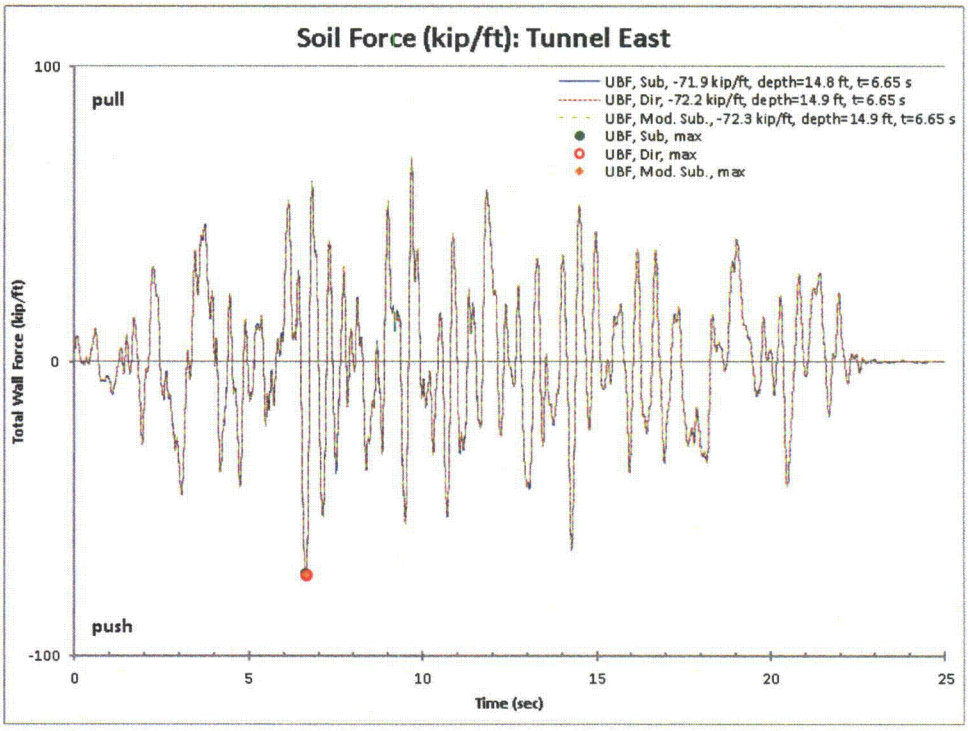

Figure 03.07.01-29 S1.162: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), Tunnel East Wall, Upper Bound Backfill

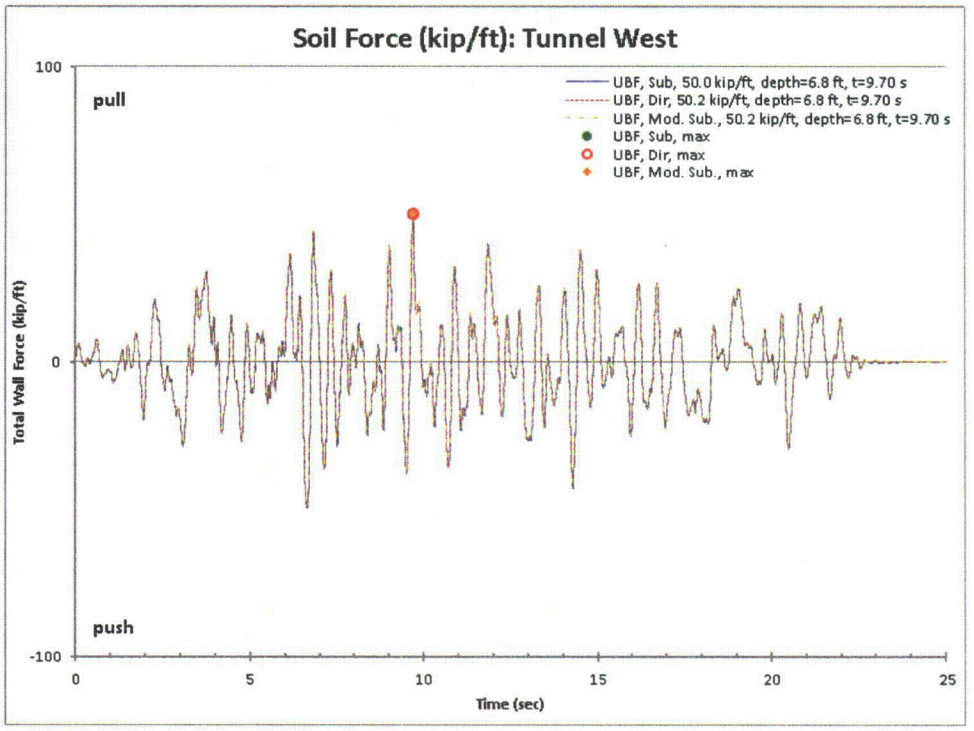

Figure 03.07.01-29 S1.163: Soil Force Comparison (Subtraction vs. Direct vs. Modified Subtraction), Tunnel West Wall, Upper Bound Backfill

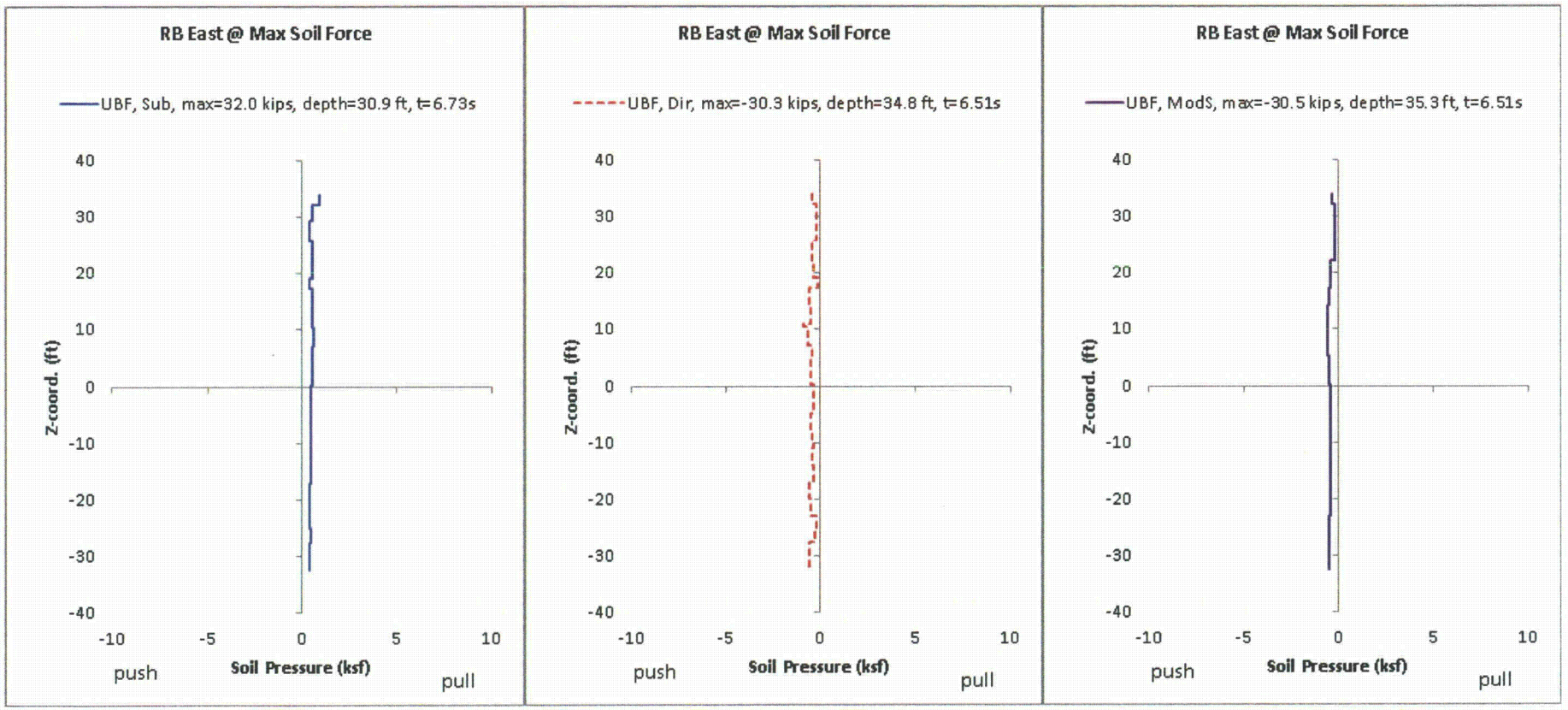

Figure 03.07.01-29 S1.164: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB East Wall, Upper Bound Backfill

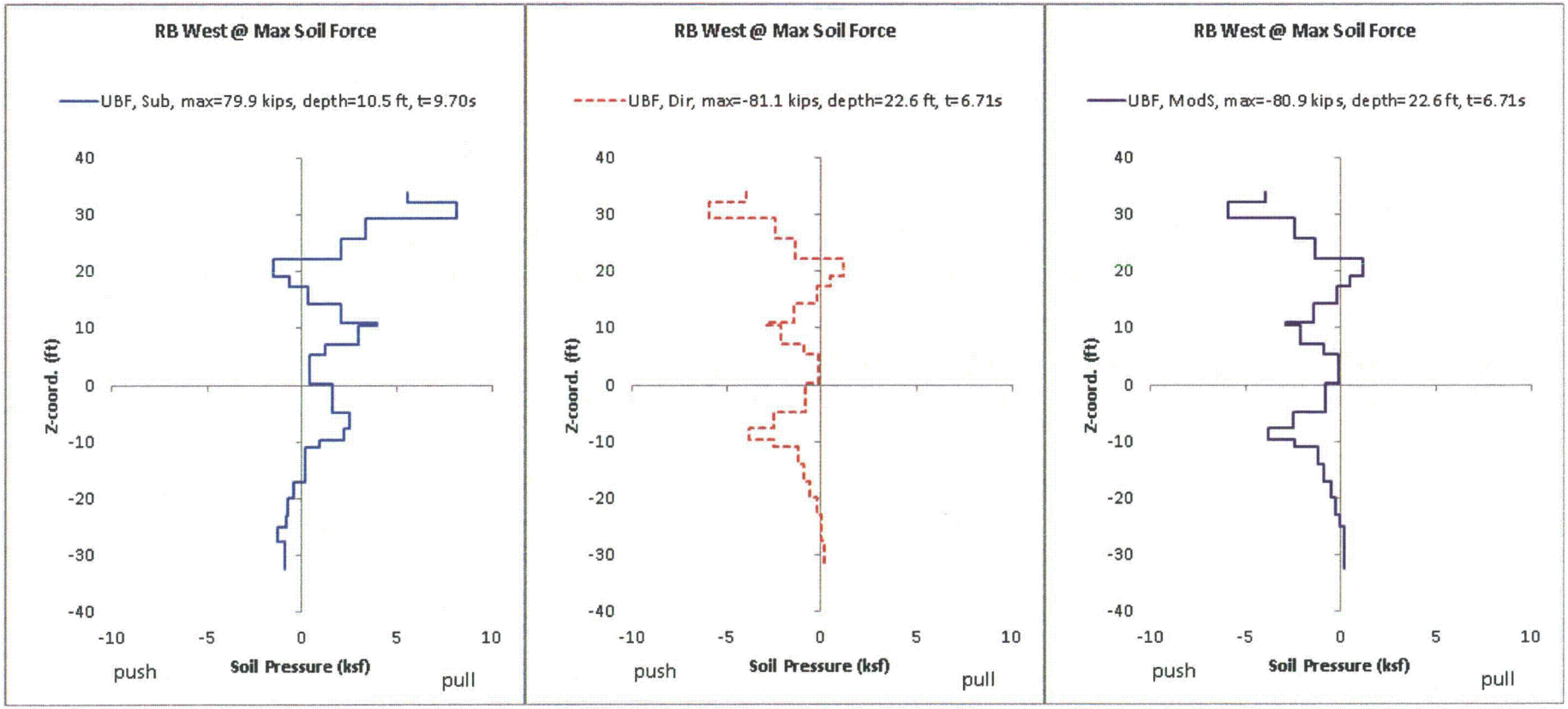

Figure 03.07.01-29 S1.165: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB West Wall, Upper Bound Backfill

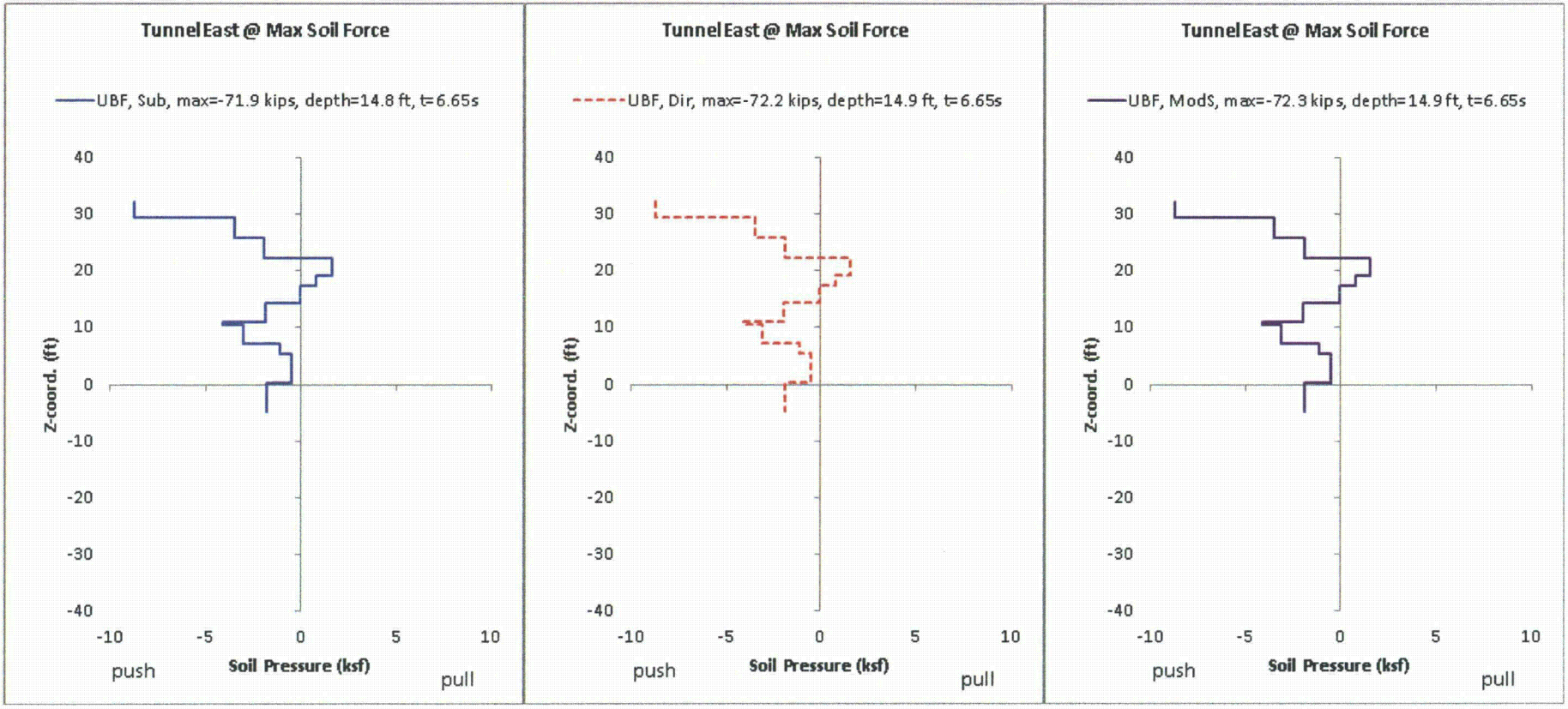

Figure 03.07.01-29 S1.166: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RSW Tunnel East Wall, Upper Bound Backfill

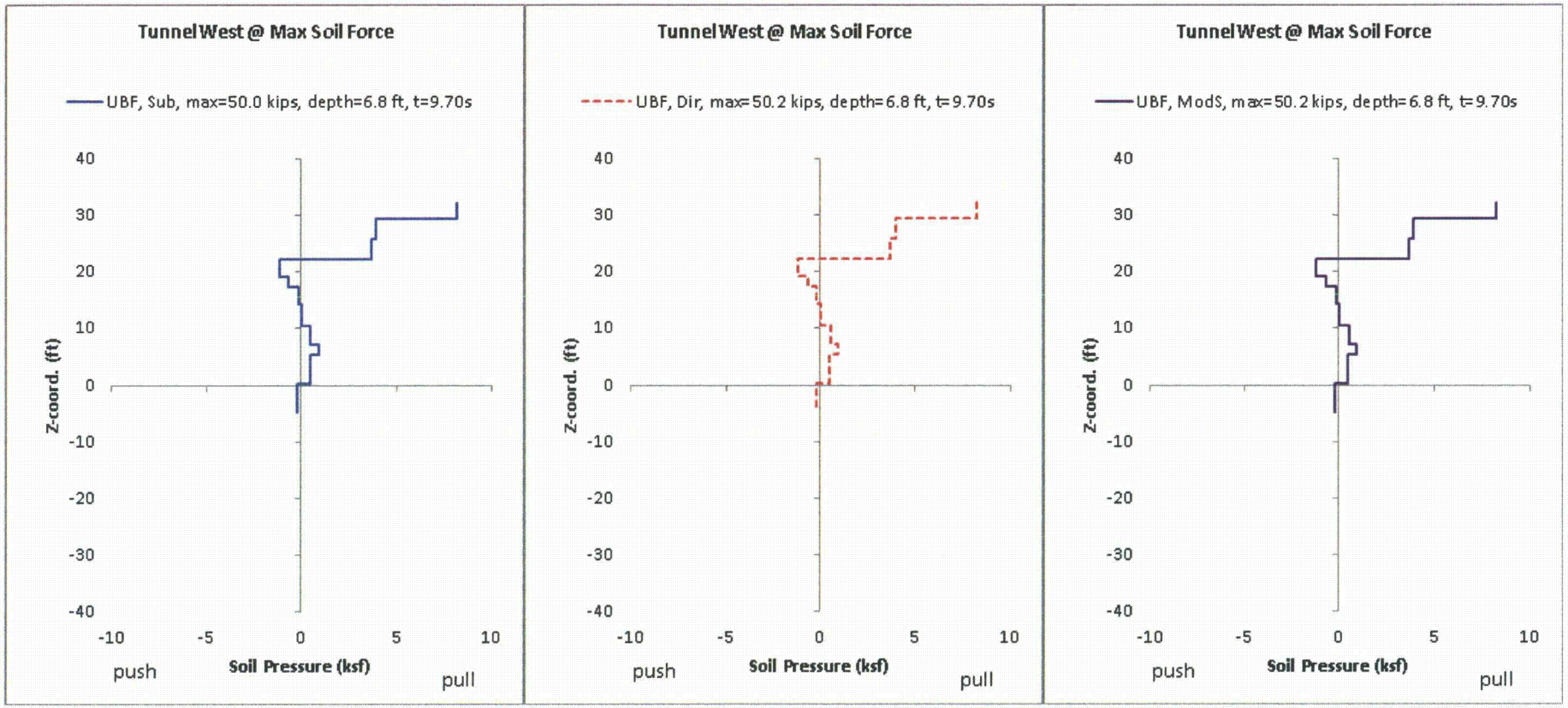

Figure 03.07.01-29 S1.167: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RSW Tunnel West Wall, Upper Bound Backfill

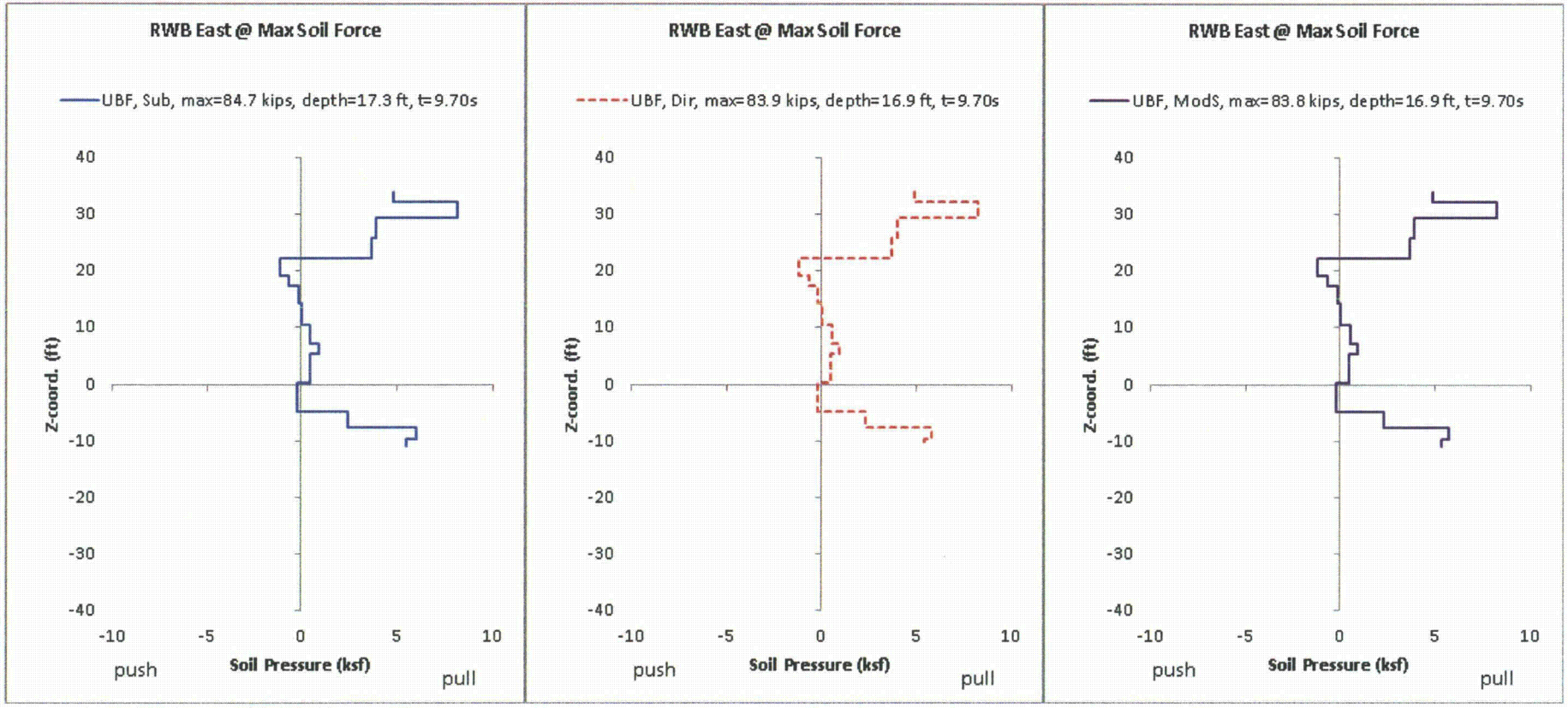

Figure 03.07.01-29 S1.168: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction) RWB East Wall, Upper Bound Backfill

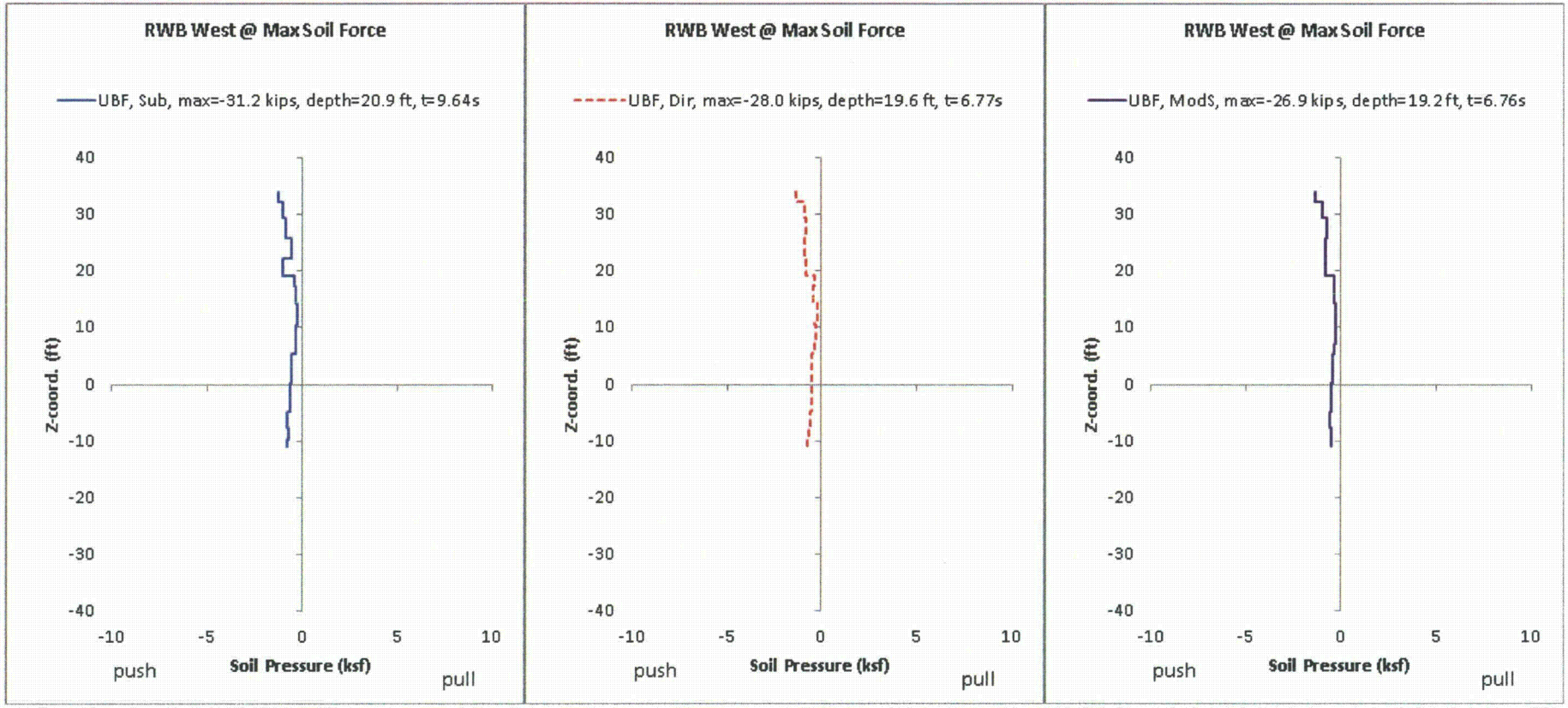

Figure 03.07.01-29 S1.169: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction) RWB West Wall, Upper Bound Backfill

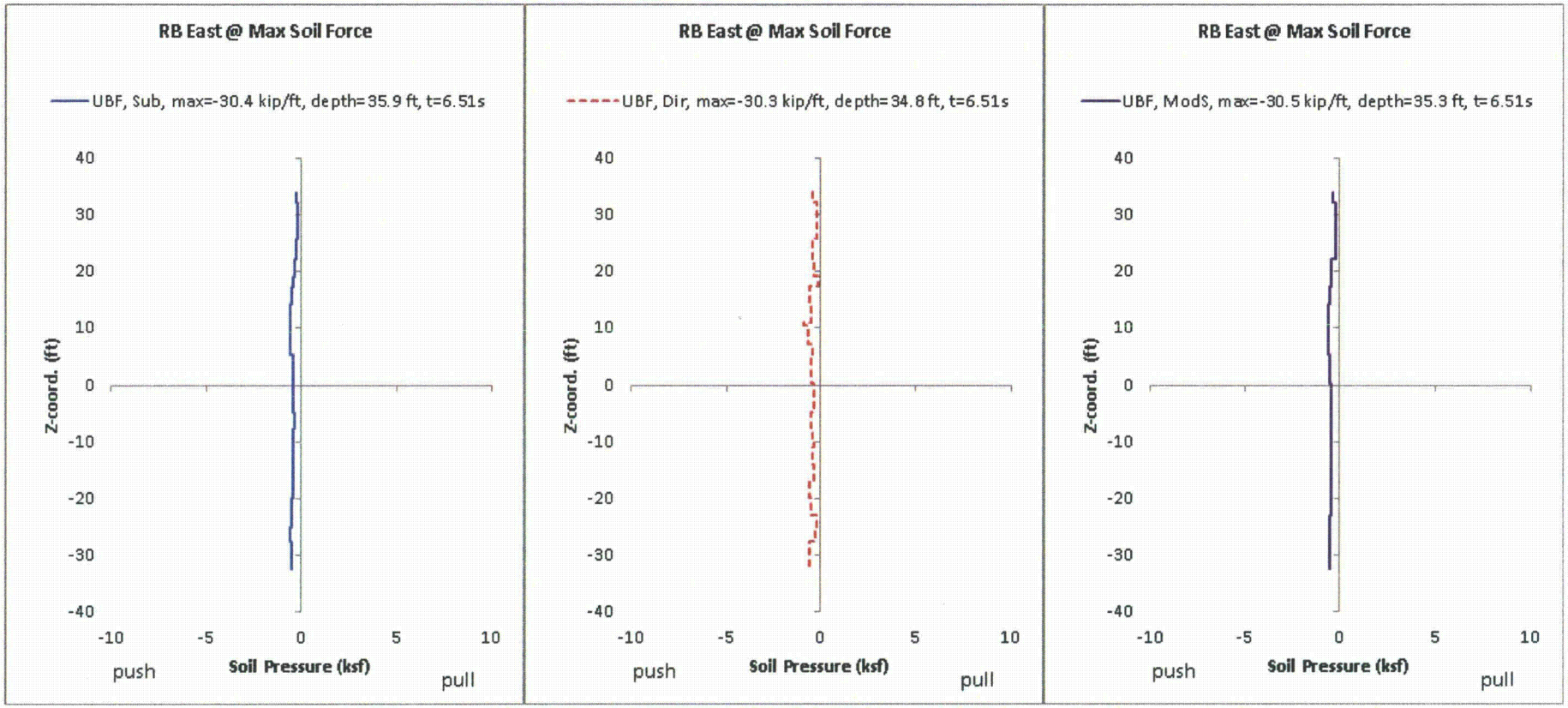

Figure 03.07.01-29 S1.170: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB East Wall, Upper Bound Backfill

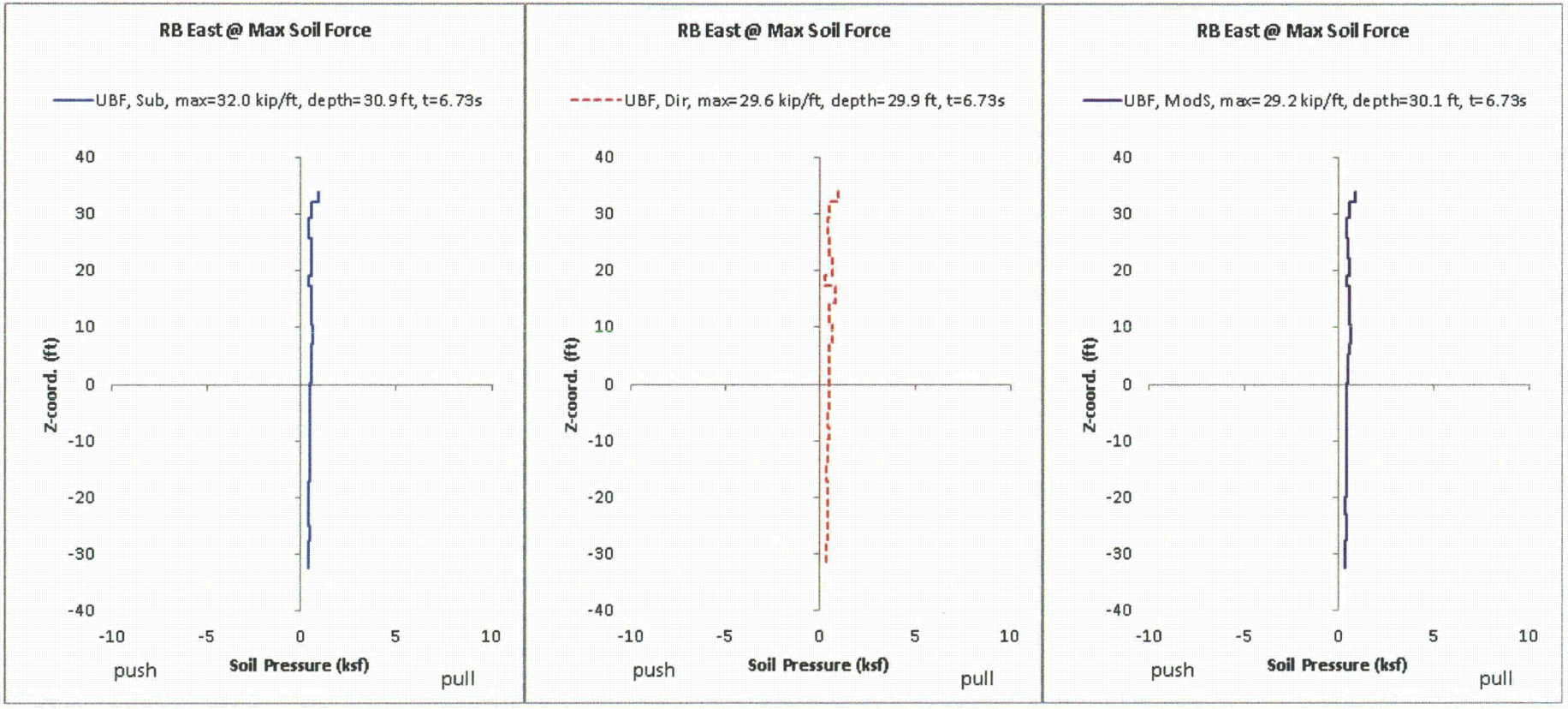

Figure 03.07.01-29 S1.171: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB East Wall, Upper Bound Backfill

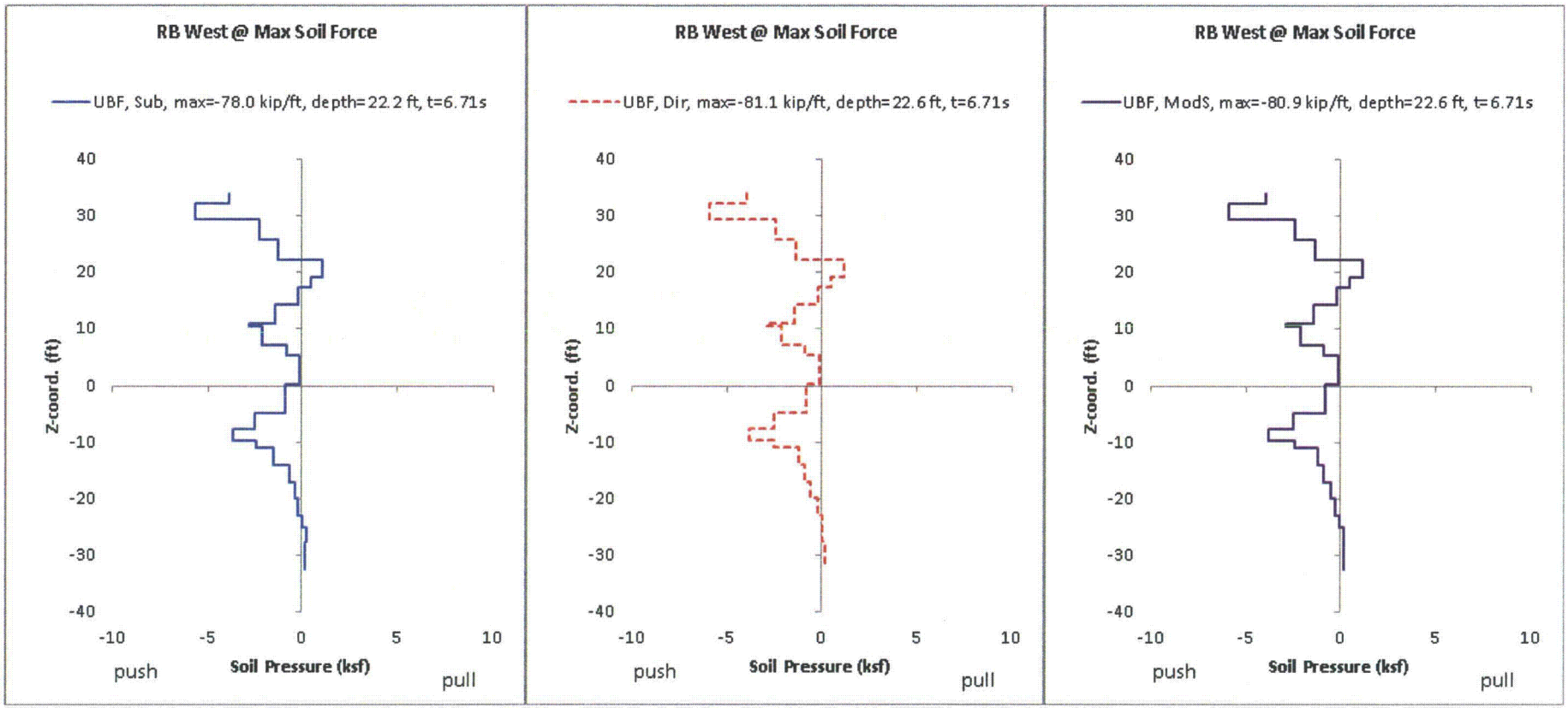

Figure 03.07.01-29 S1.172: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB West Wall, Upper Bound Backfill

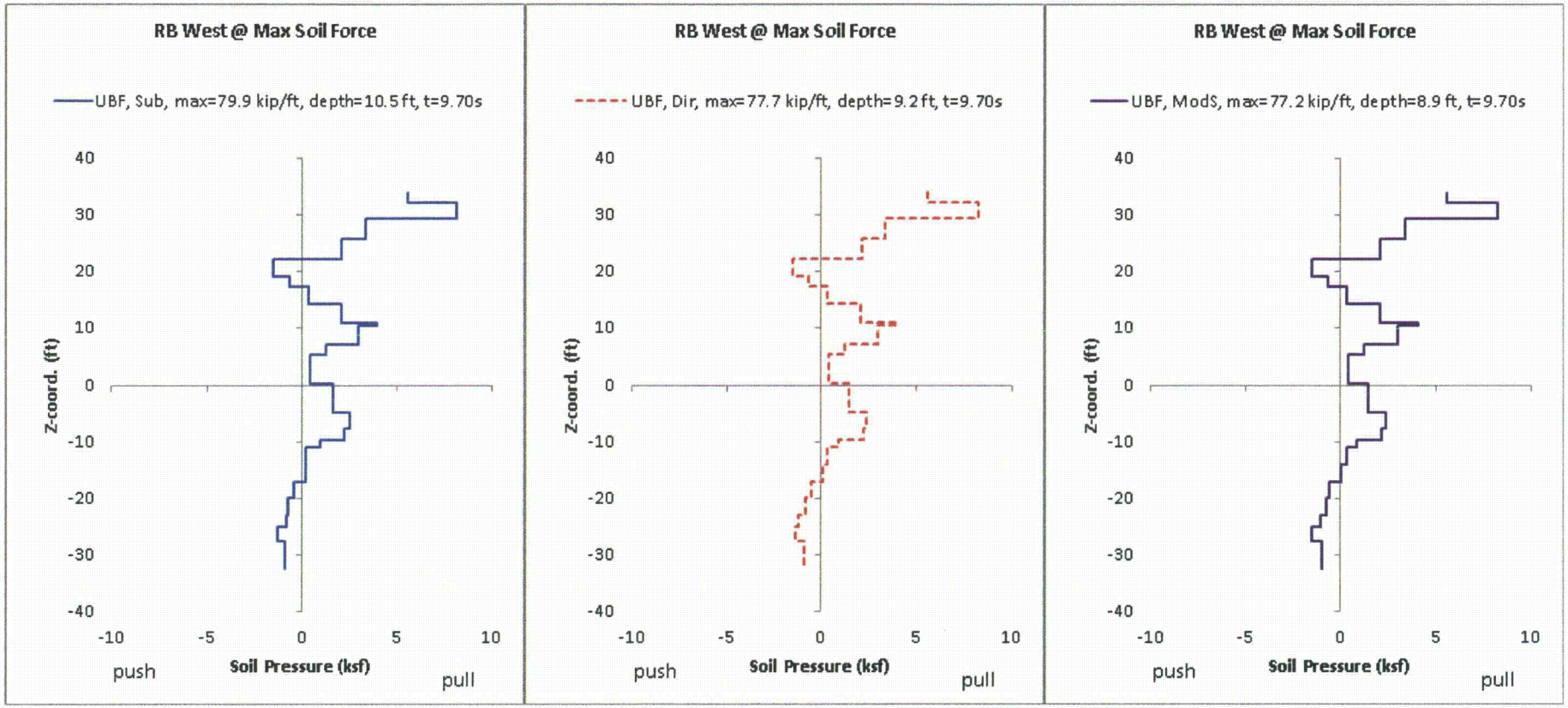

Figure 03.07.01-29 S1.173: Soil Pressure Comparison (Subtraction vs. Direct vs. Modified Subtraction)
RB West Wall, Upper Bound Backfill

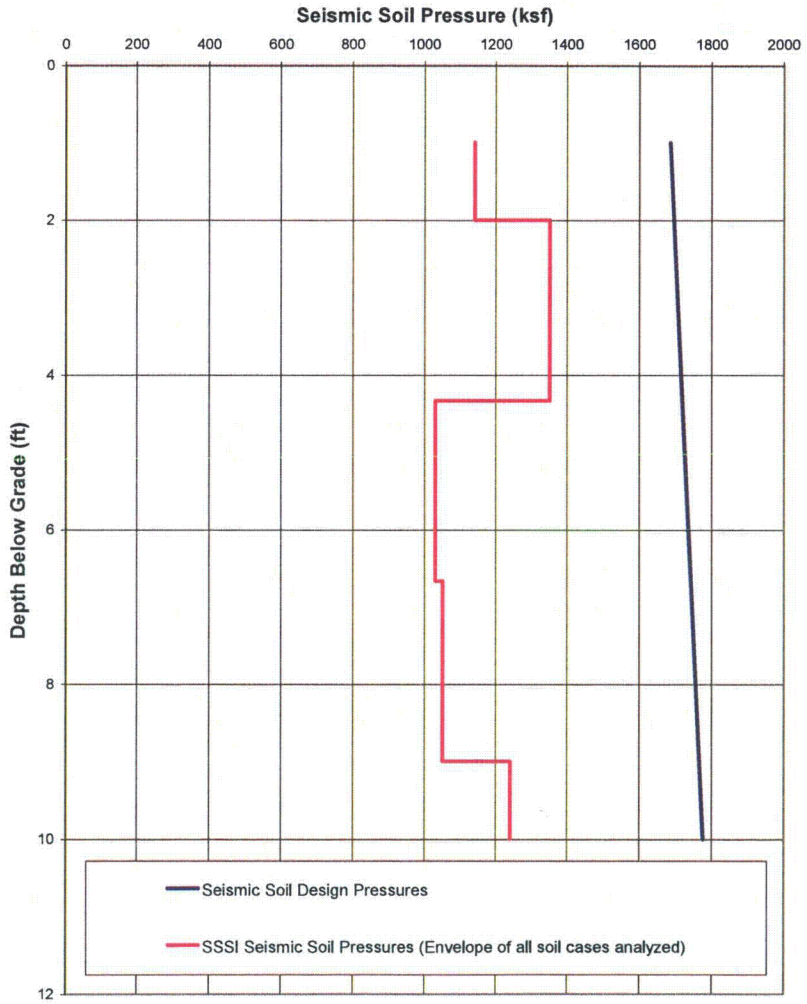

Figure 03.07.01-29 S1.174: Seismic Soil Design Pressures vs. SSSI Soil Pressures on DGFOT West Wall

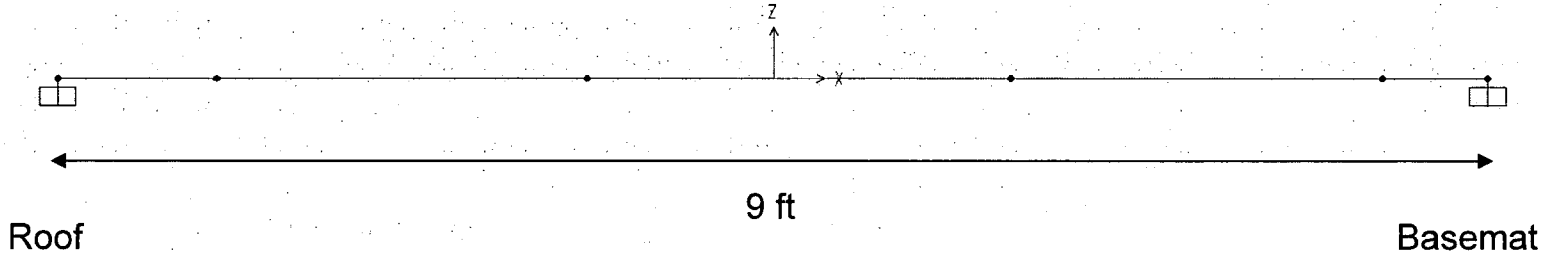

Figure 03.07.01-29 S1.175: Strip of DGFOT West Wall modeled in SAP2000

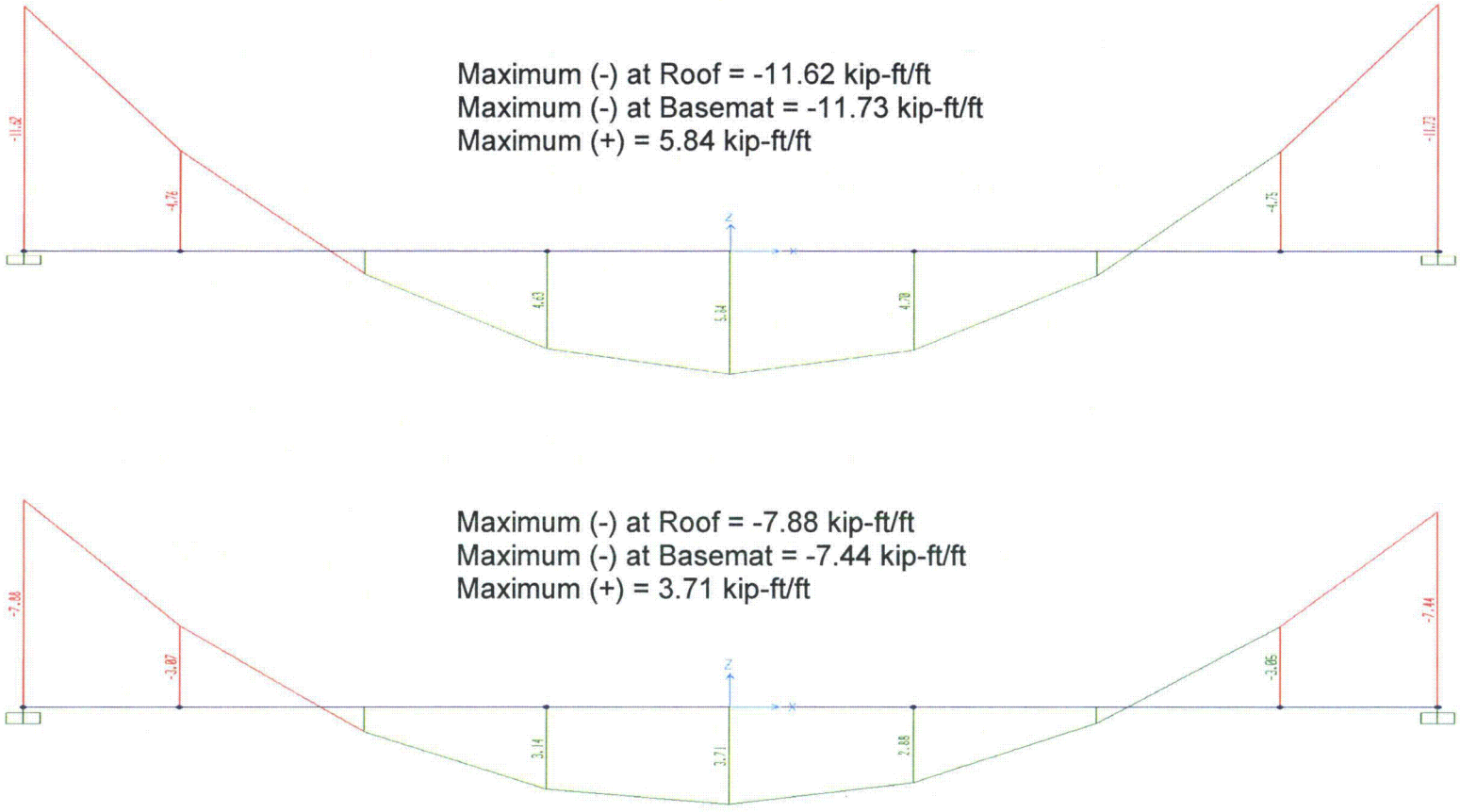

Figure 03.07.01-29 S1.176: Moment due to seismic soil design pressures (top) and SSSI soil pressures (bottom) on DGFOT

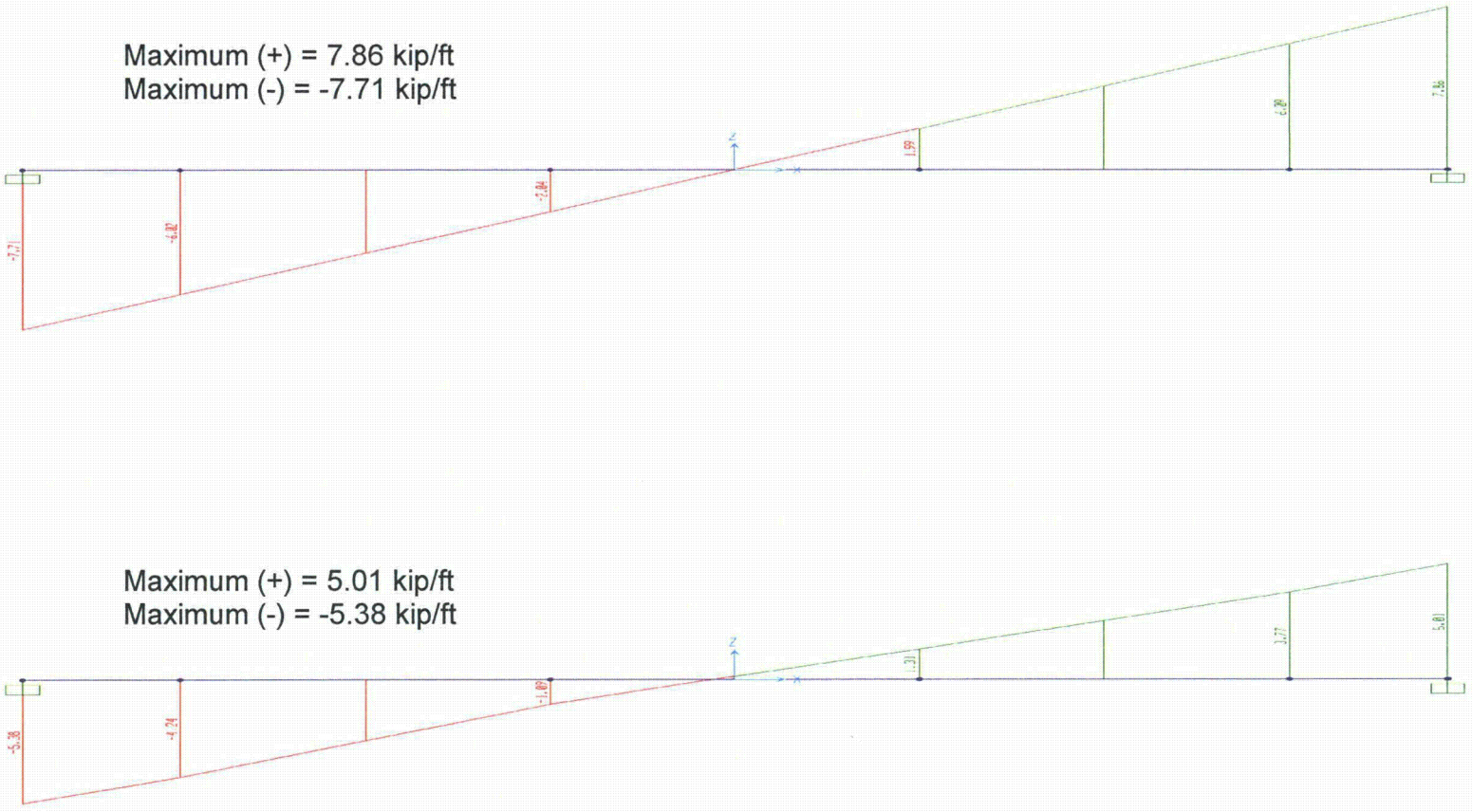

Figure 03.07.01-29 S1.177: Shear Due to Seismic Soil Design Pressures (top) and SSSI Soil Pressures (bottom) on DGFOT

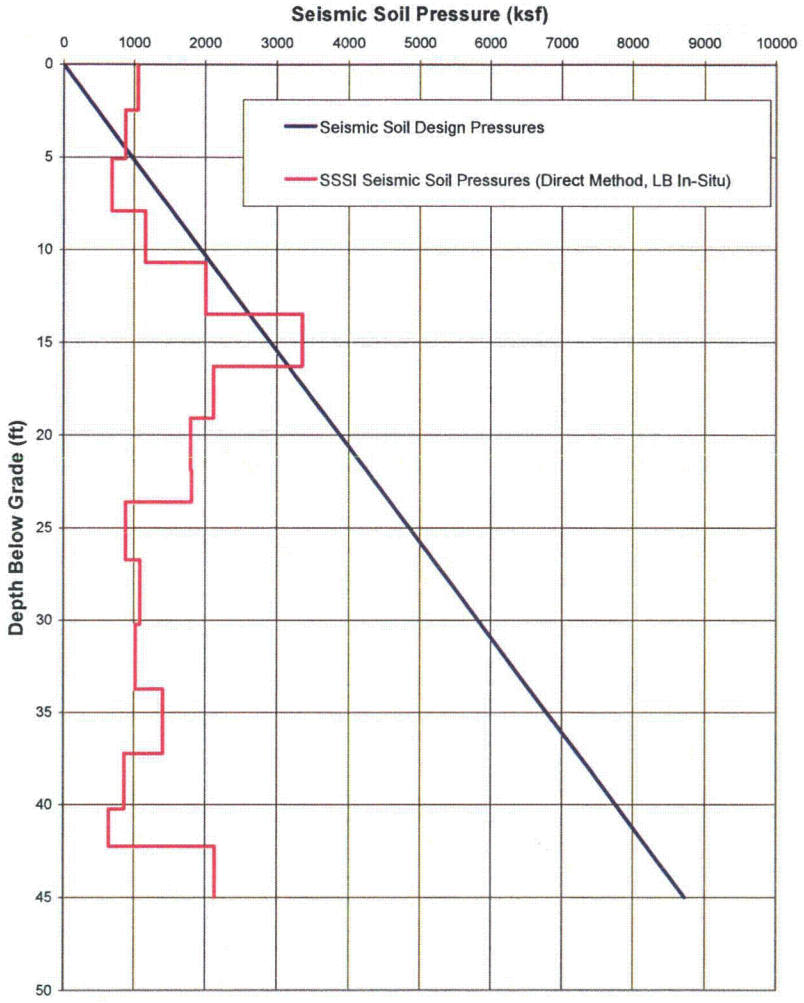

Figure 03.07.01-29 S1.178: Seismic Soil Design Pressures vs. SSSI Soil Pressures on RWB West Wall

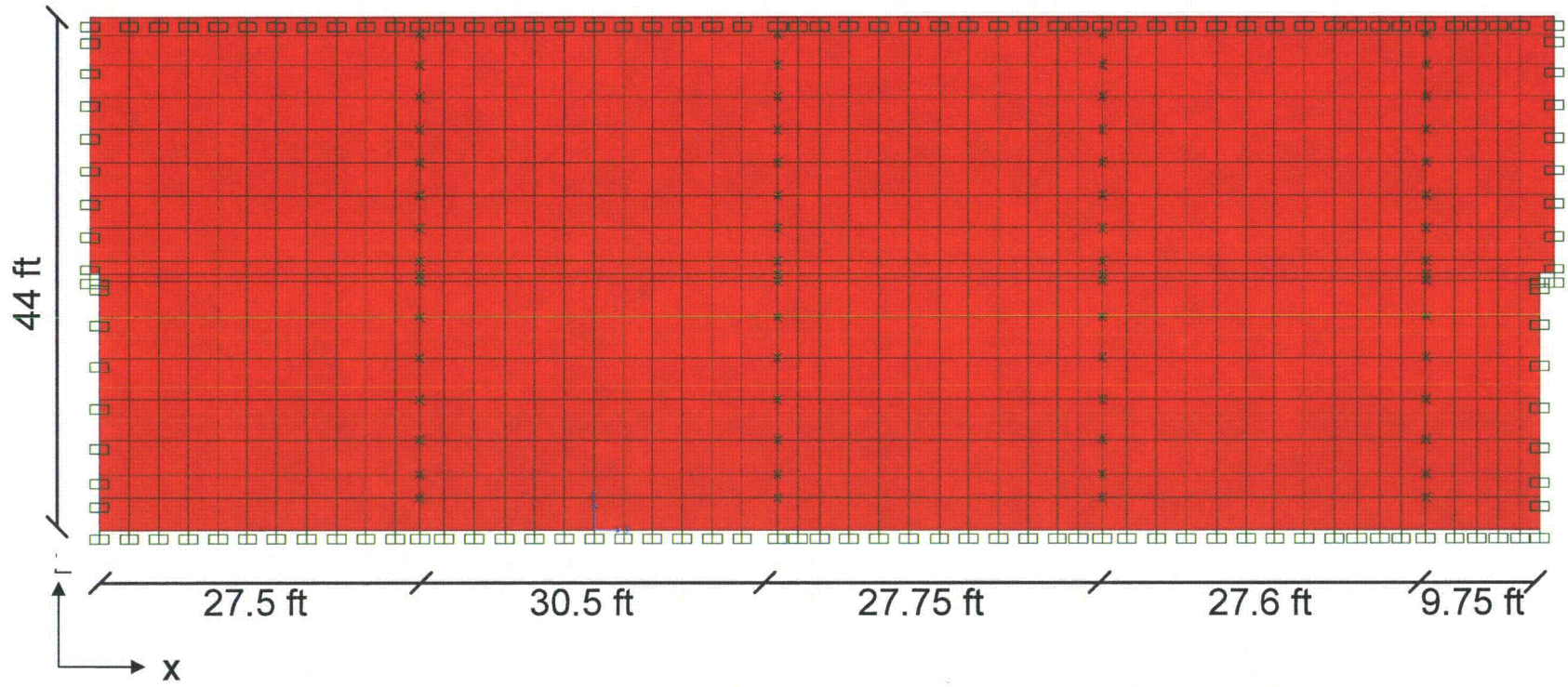

Figure 03.07.01-29 S1.179: Below Grade West Wall of RWB Modeled in SAP2000

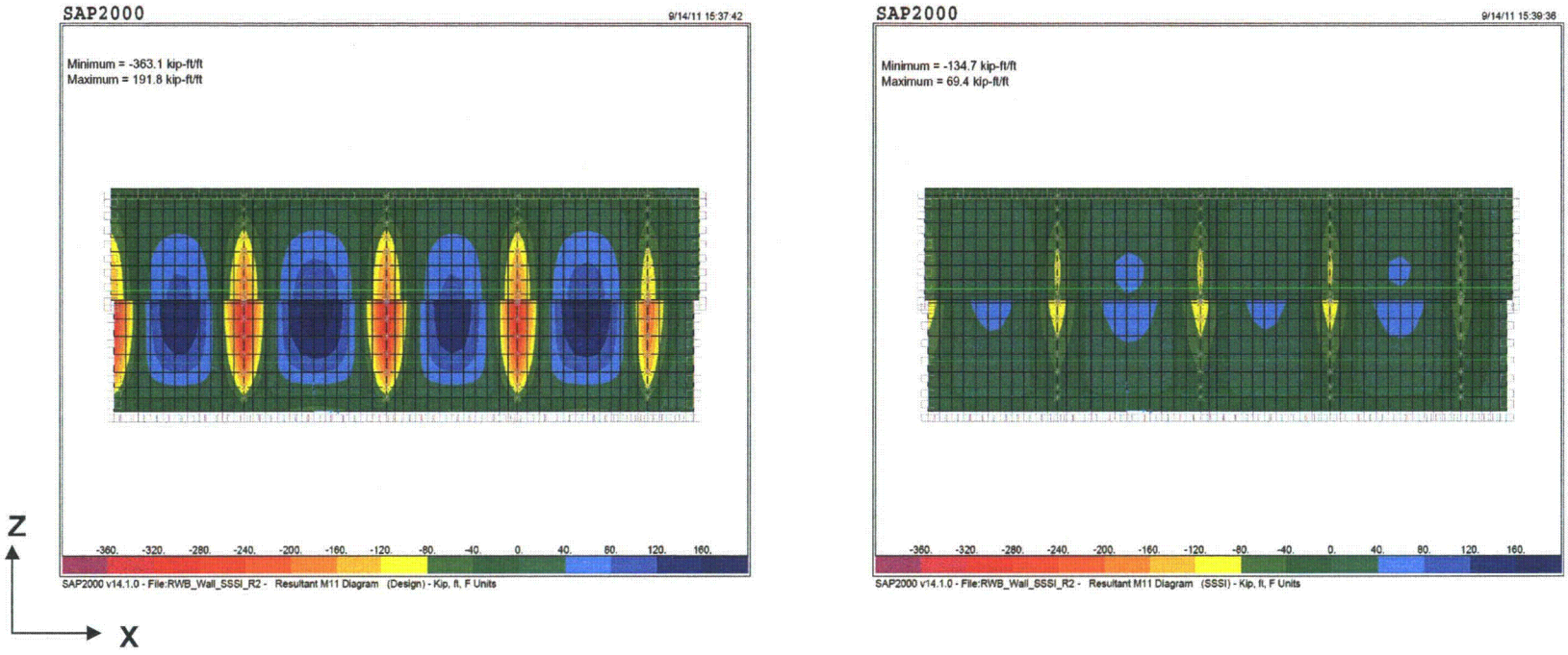

Figure 03.07.01-29 S1.180: Moments About Z-axis (Mzz) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on RWB Wall

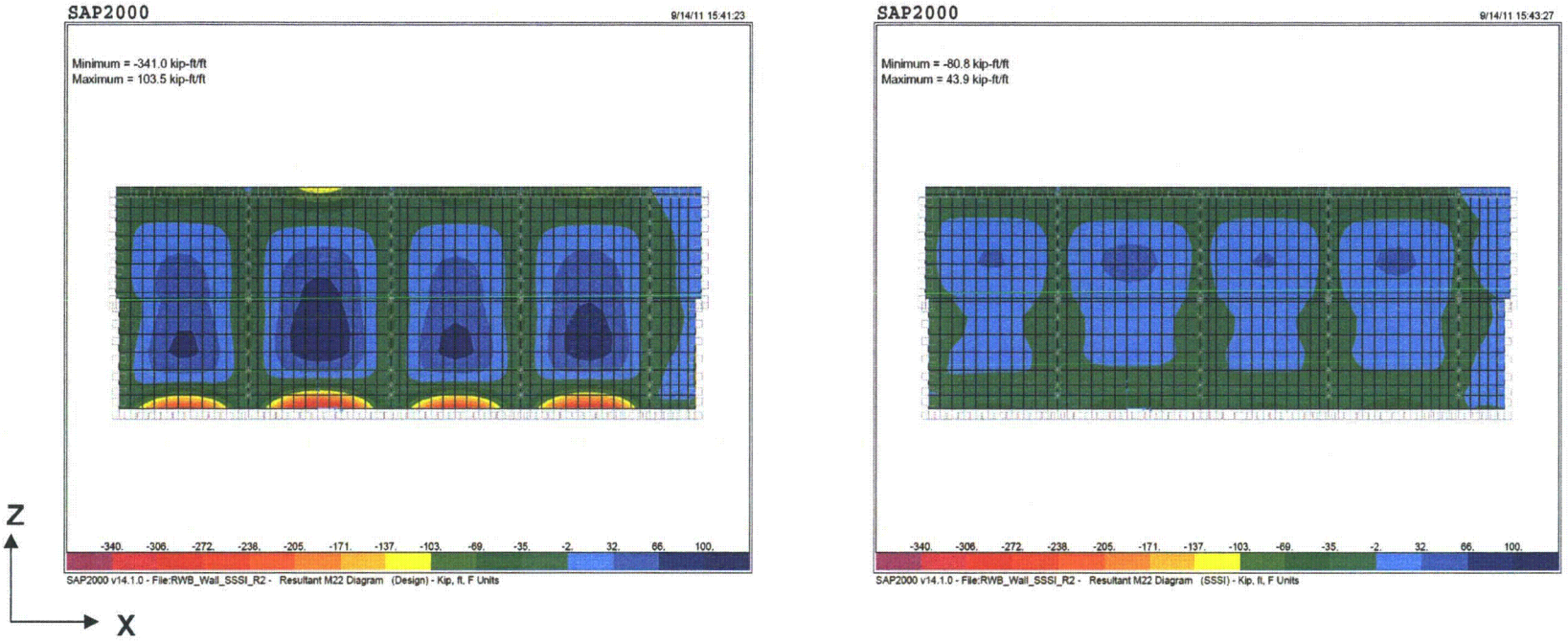

Figure 03.07.01-29 S1.181: Moments About X-axis (Mxx) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on RWB Wall

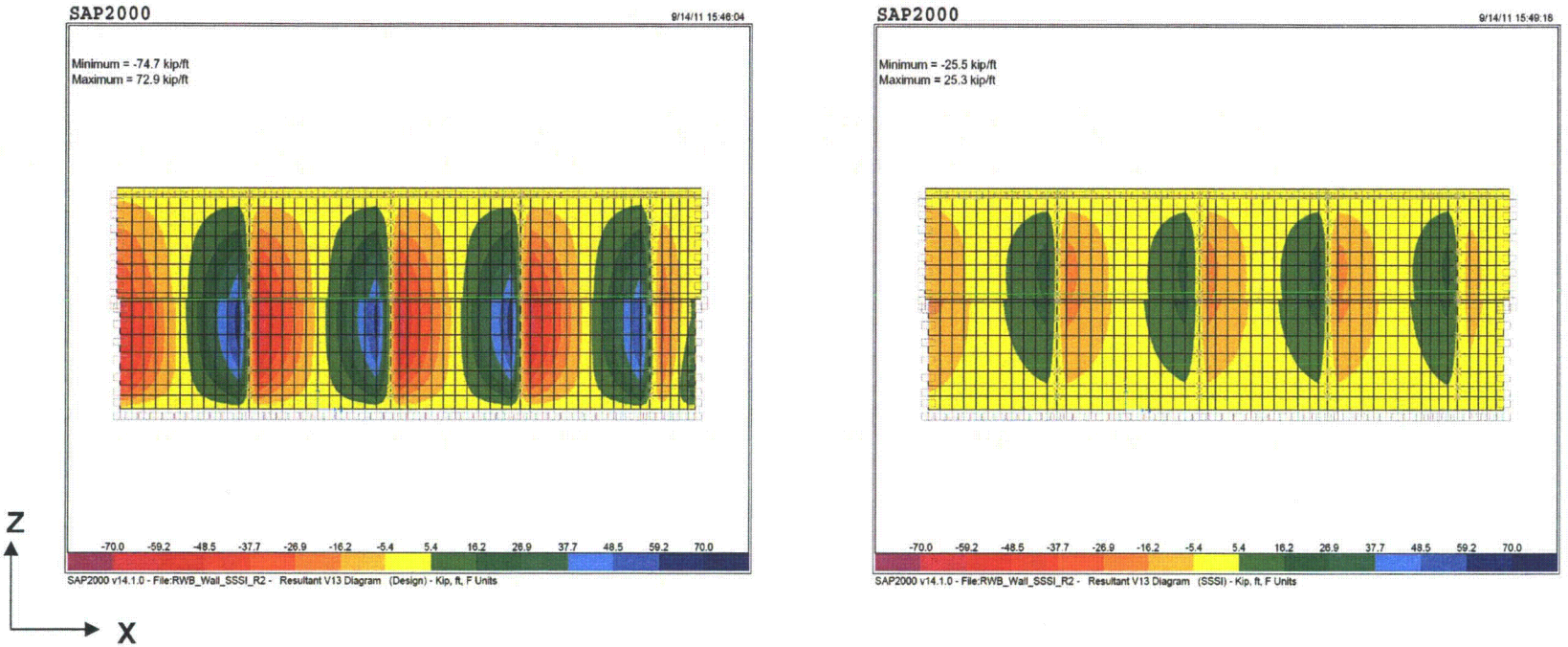

Figure 03.07.01-29 S1.182: Out-of-plane Shear Force Along Z-axis (V13) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on RWB Wall

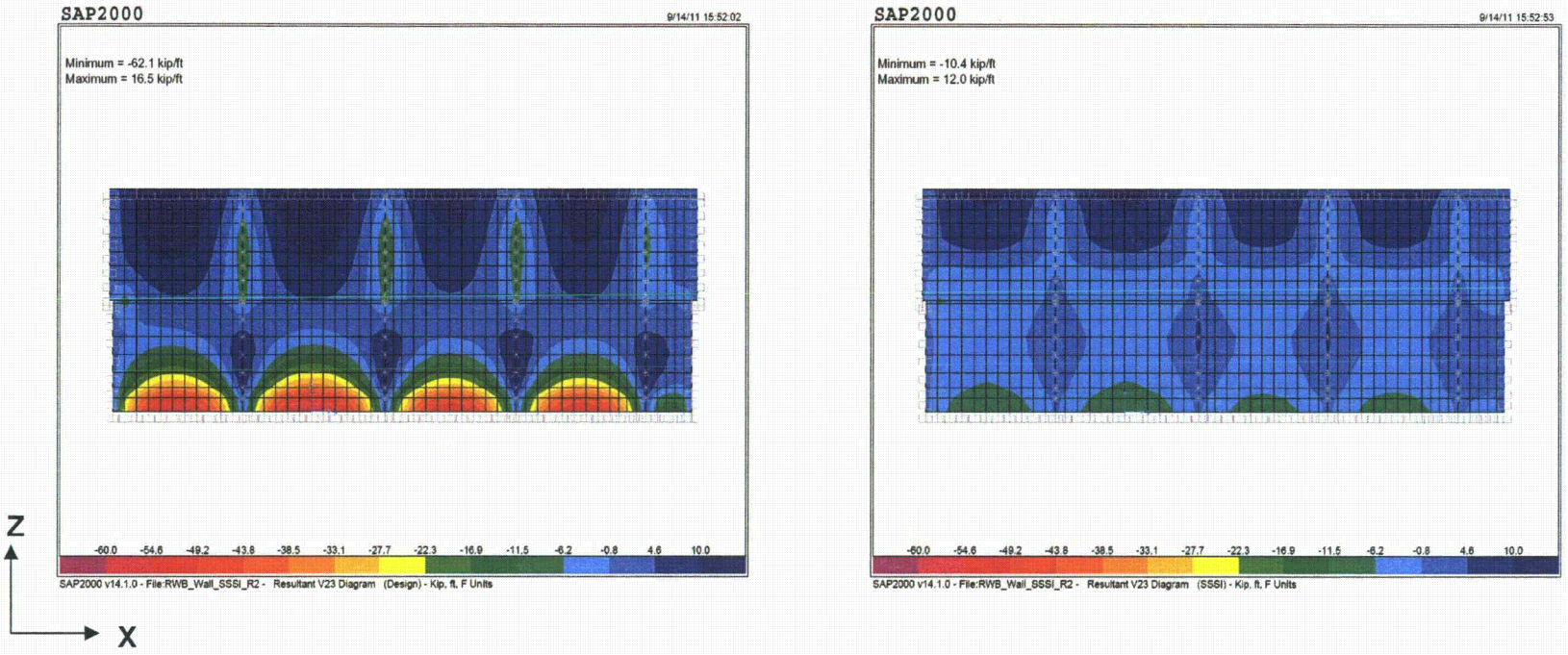

Figure 03.07.01-29 S1.183: Out-of-plane Shear Force Along X-axis (V23) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on RWB Wall

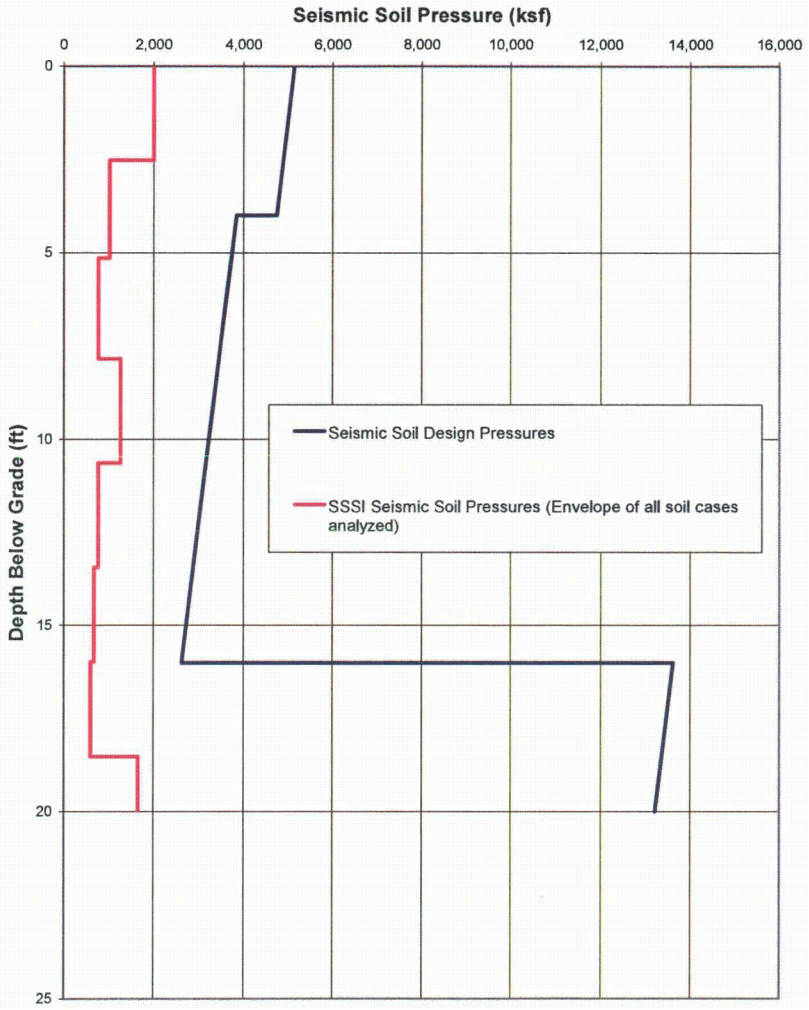

Figure 03.07.01-29 S1.184: Seismic Soil Design Pressures vs. SSSI Soil Pressures on UHS Basin South Wall

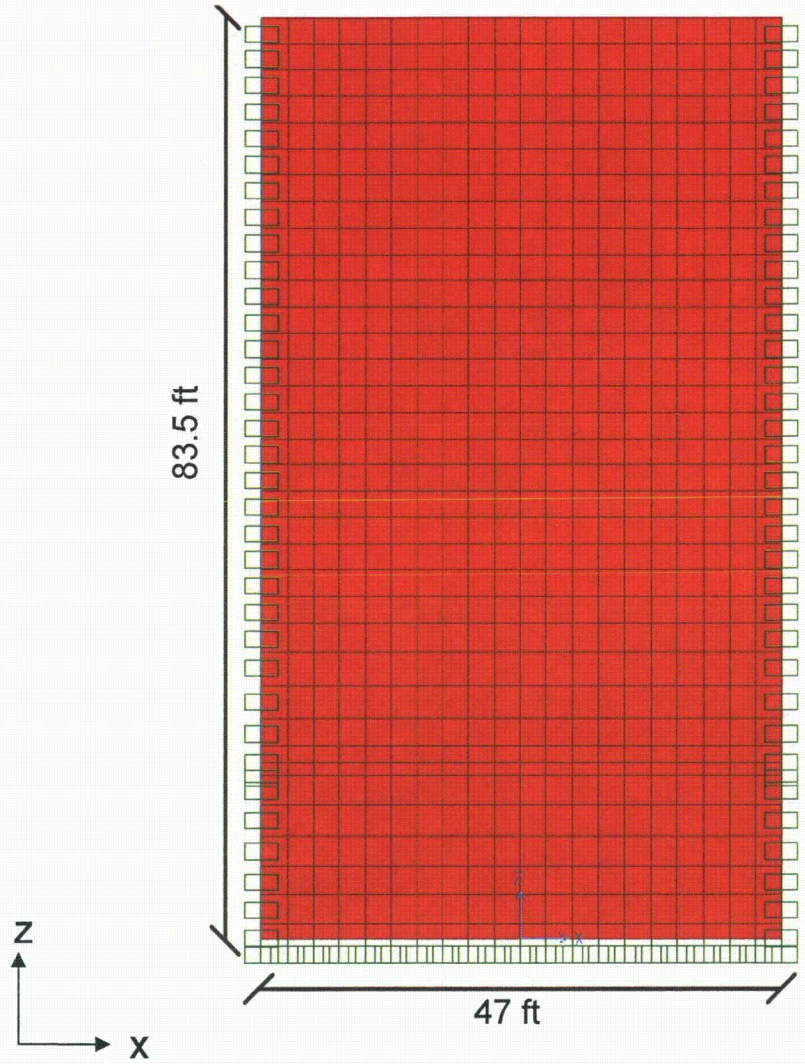

Figure 03.07.01-29 S1.185: Typical Wall Panel of UHS Basin Modeled in SAP2000

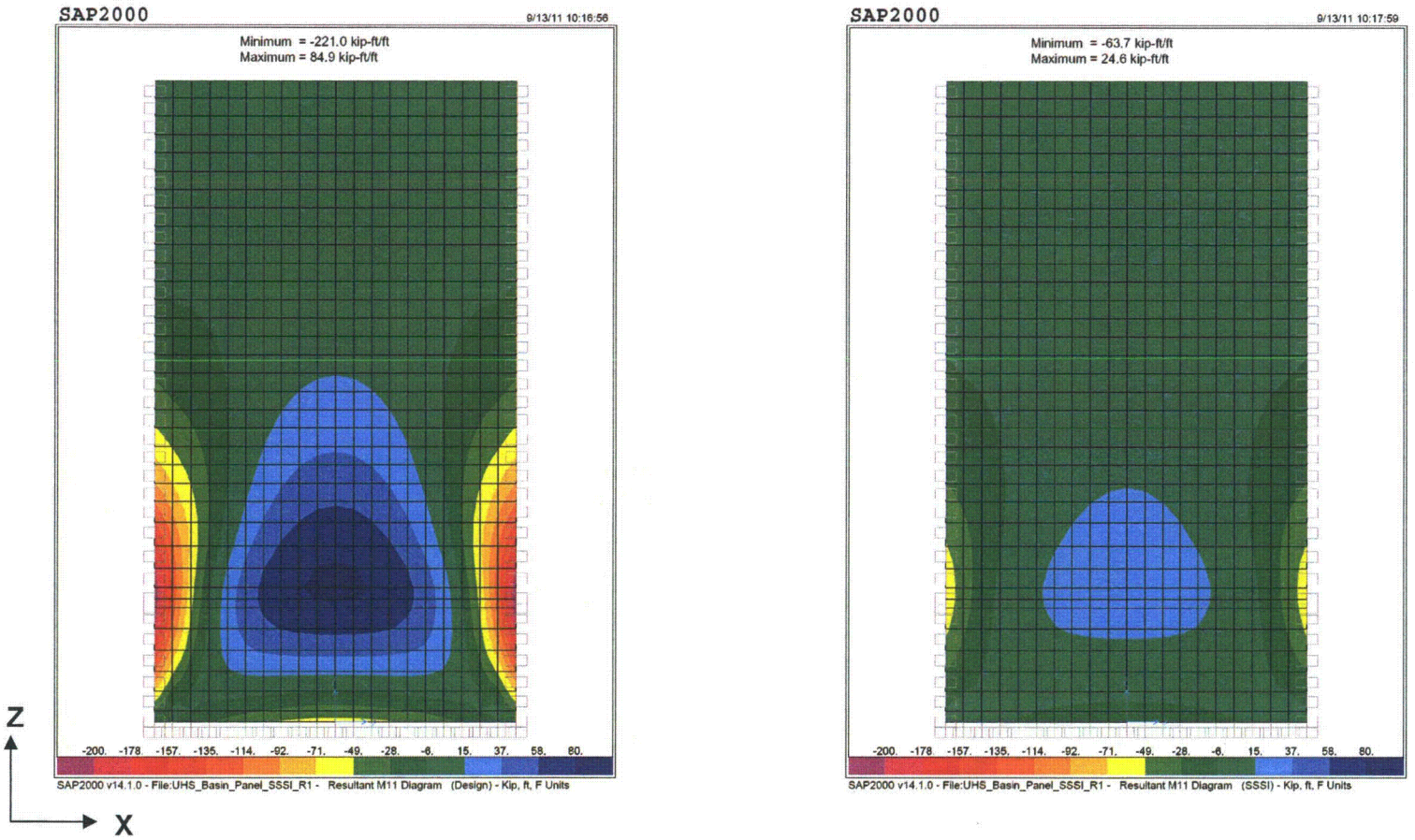

Figure 03.07.01-29 S1.186: Moments About Z-axis (Mzz) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on UHS Basin Wall Panel

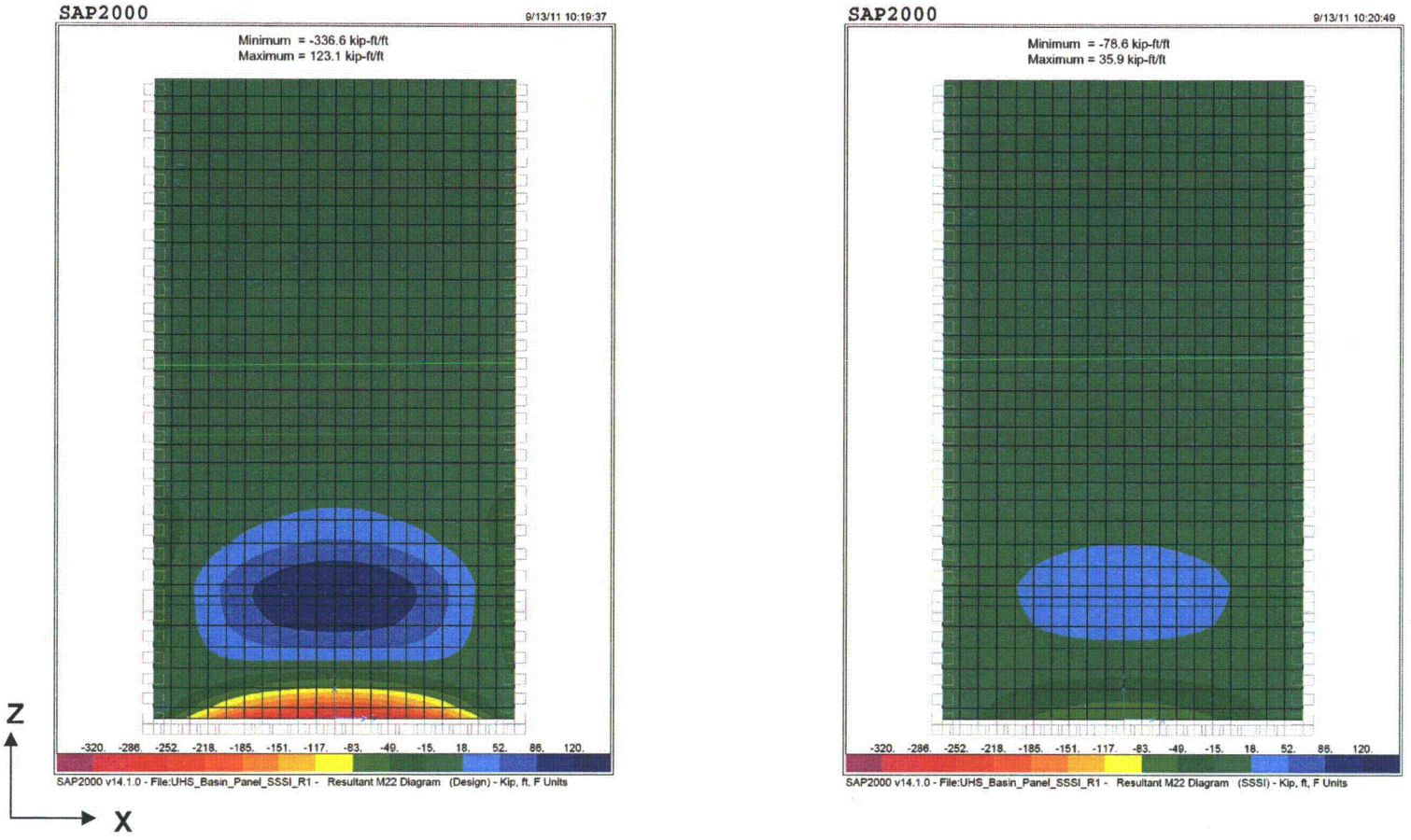

Figure 03.07.01-29 S1.187: Moments About X-axis (Mxx) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on UHS Basin Wall Panel

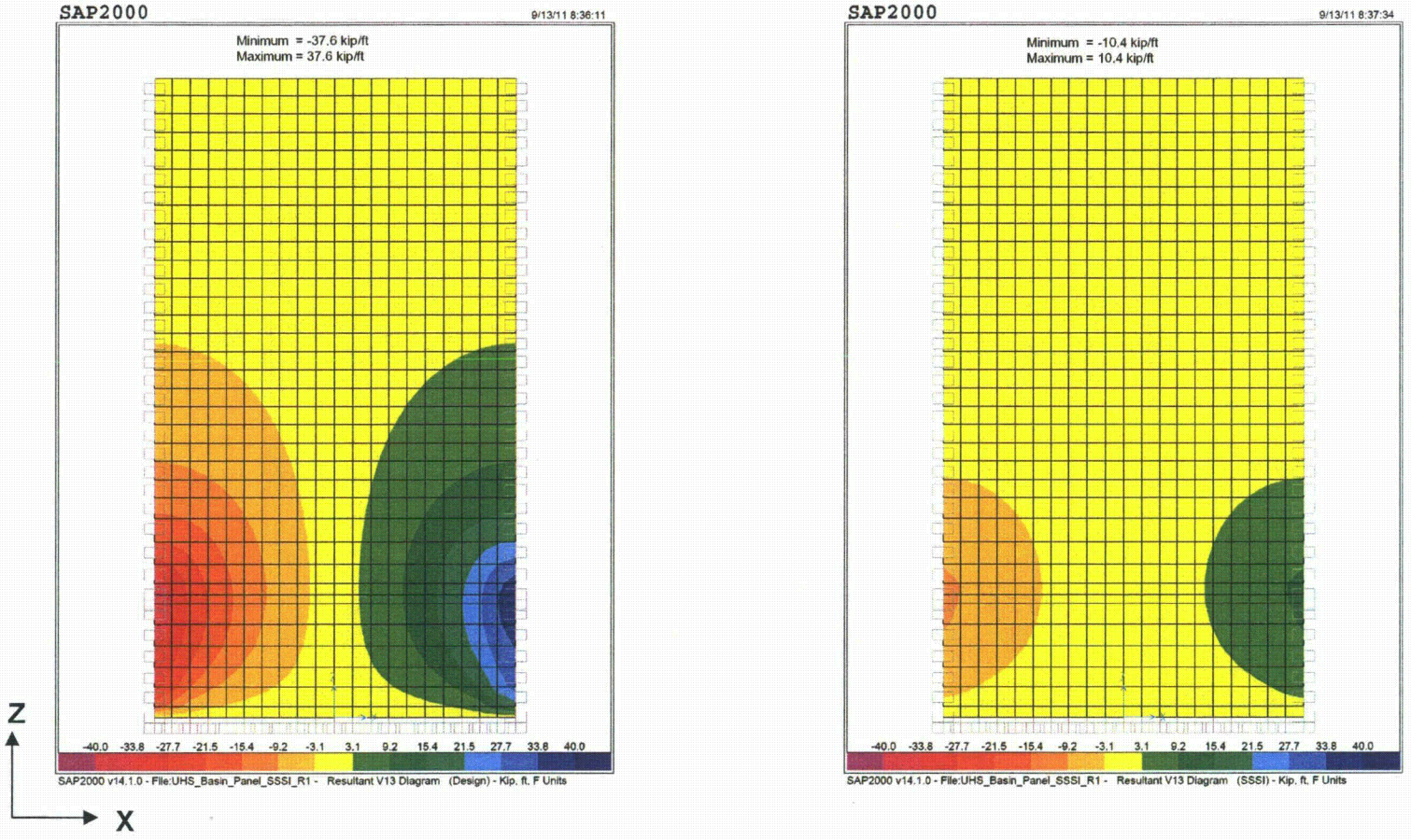

Figure 03.07.01-29 S1.188: Out-of-plane Shear Force Along Z-axis (V13) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on UHS Basin Wall Panel

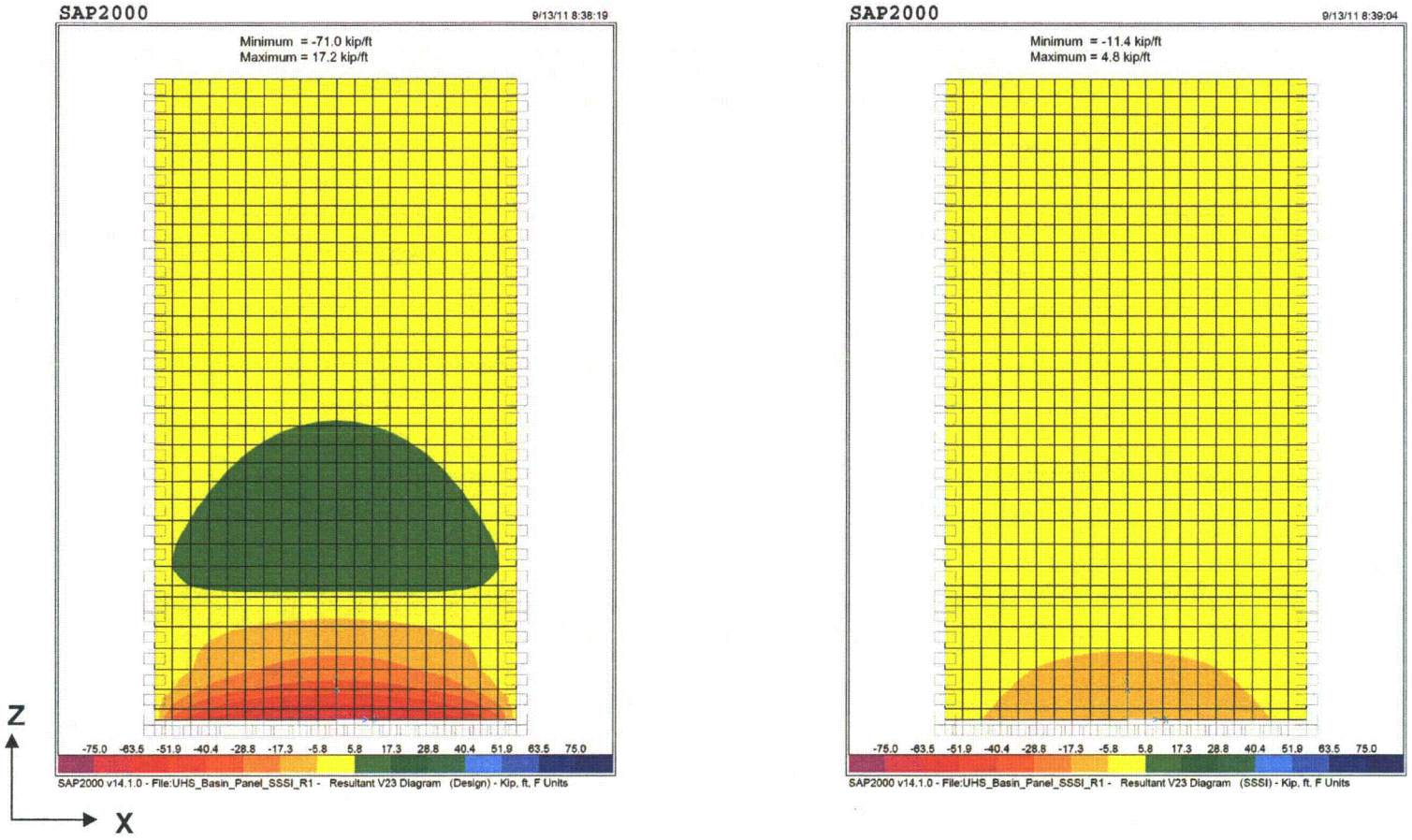

Figure 03.07.01-29 S1.189: Out-of-plane Shear Force Along X-axis (V23) Due to Seismic Soil Design Pressures (left) and SSSI Soil Pressures (right) on UHS Basin Wall Panel

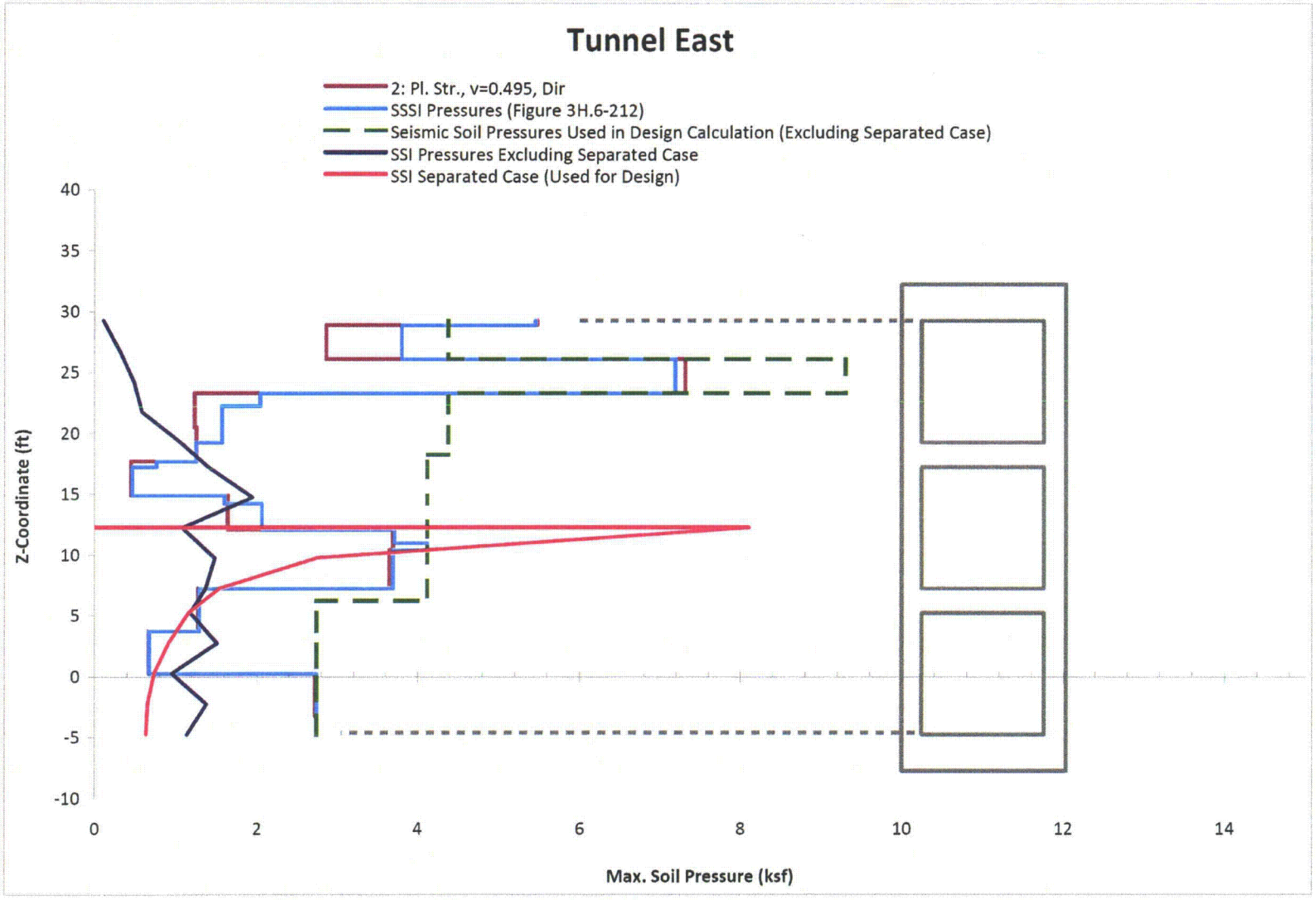

Figure 03.07.01-29 S1.190: SSI, SSSI and Design Seismic Soil Pressures, RSW Tunnel East Wall

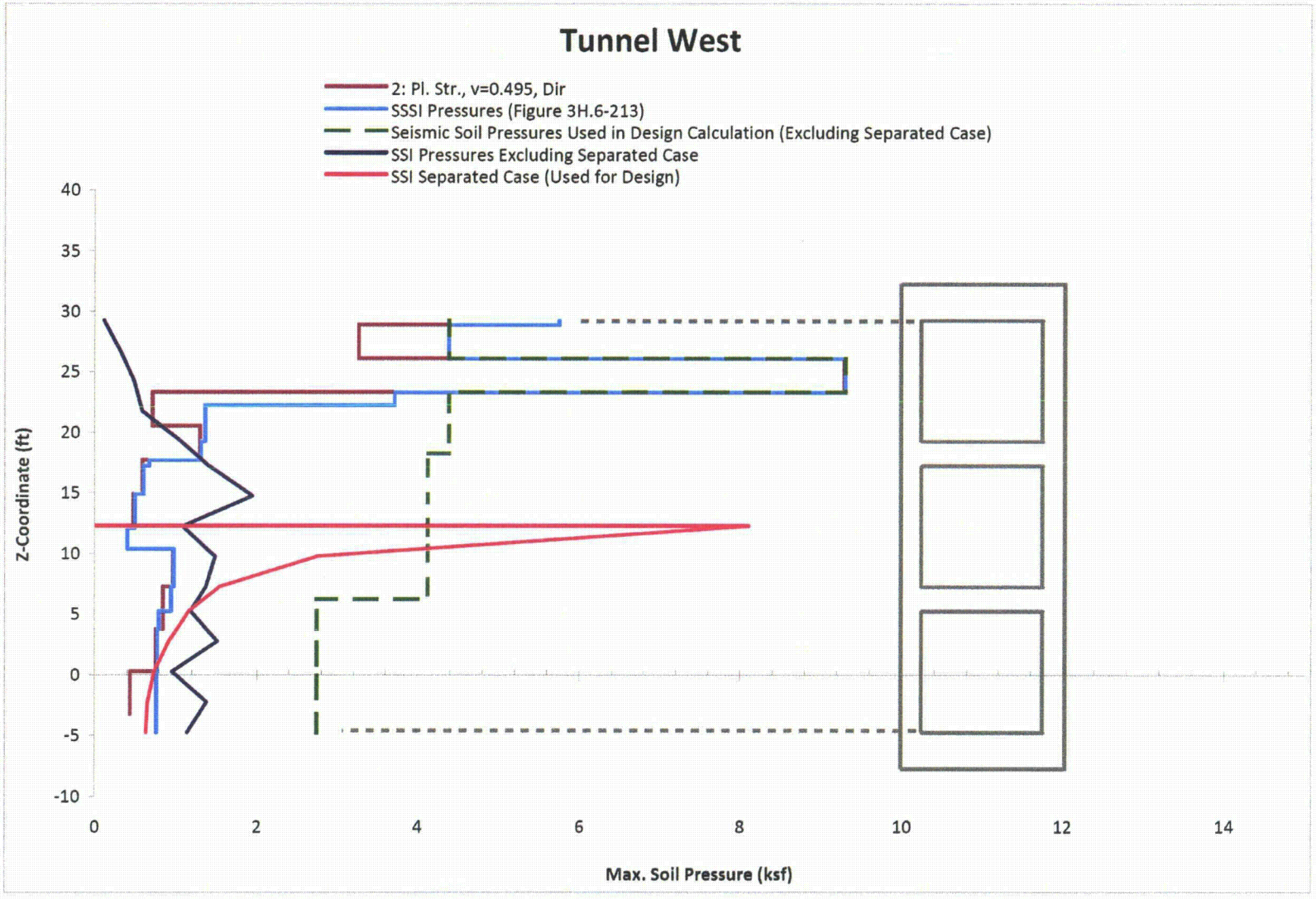

Figure 03.07.01-29 S1.191: SSI, SSSI and Design Seismic Soil Pressures, RSW Tunnel West Wall

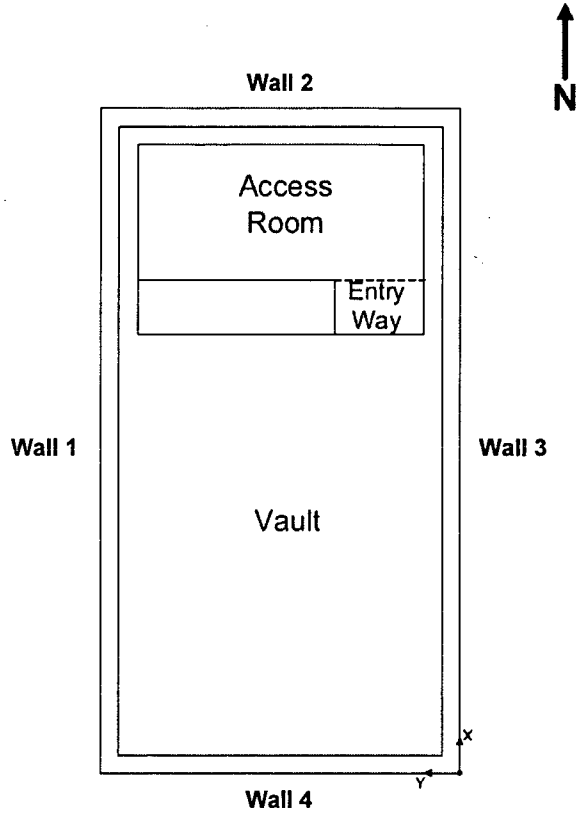

Figure 03.07.01-29 S1.192: Wall Numbering for DGFOSV SSI Soil Comparisons

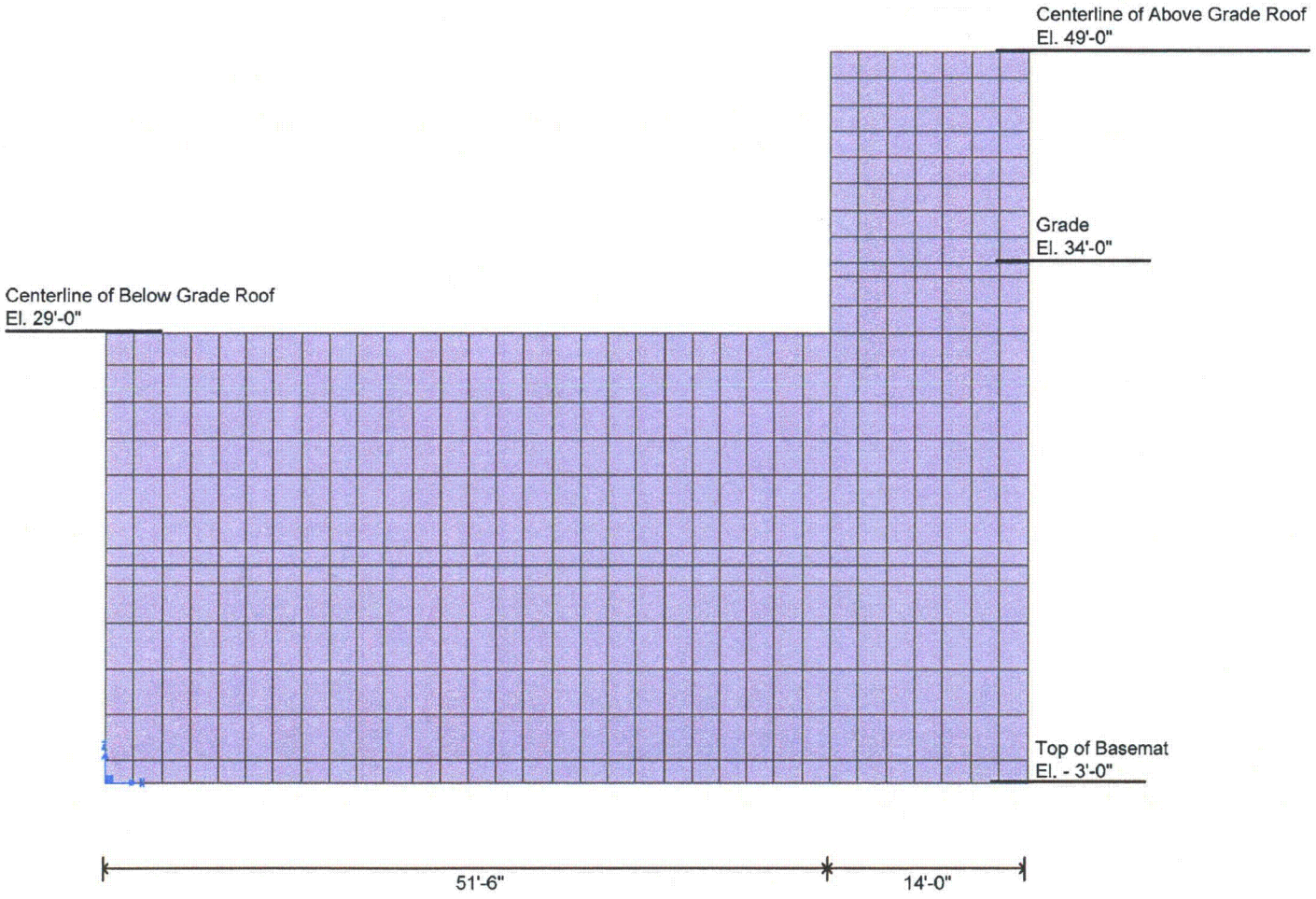

Figure 03.07.01-29 S1.193: SAP2000 Model of Wall 1 of DGFOSV

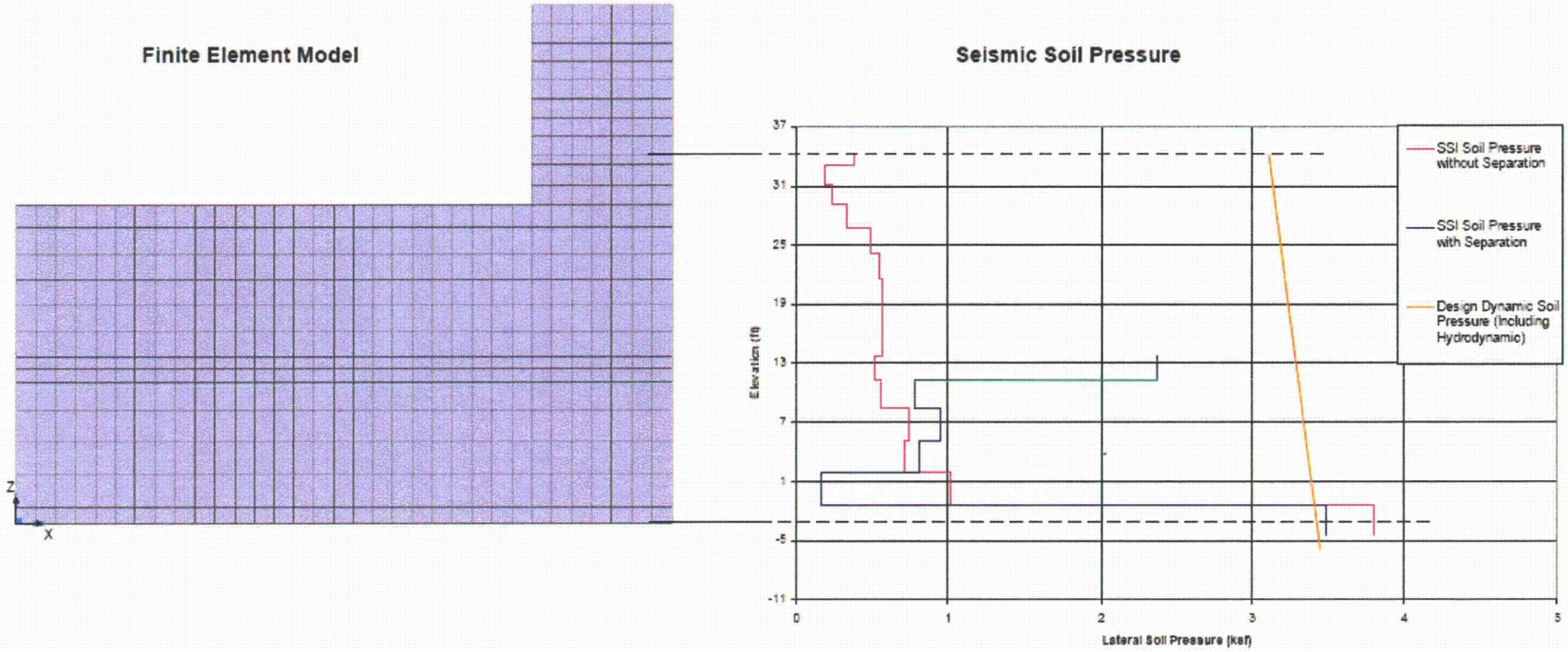

Figure 03.07.01-29 S1.194: Application of Soil Loads on SAP2000 Model of Wall 1 of DGFOSV

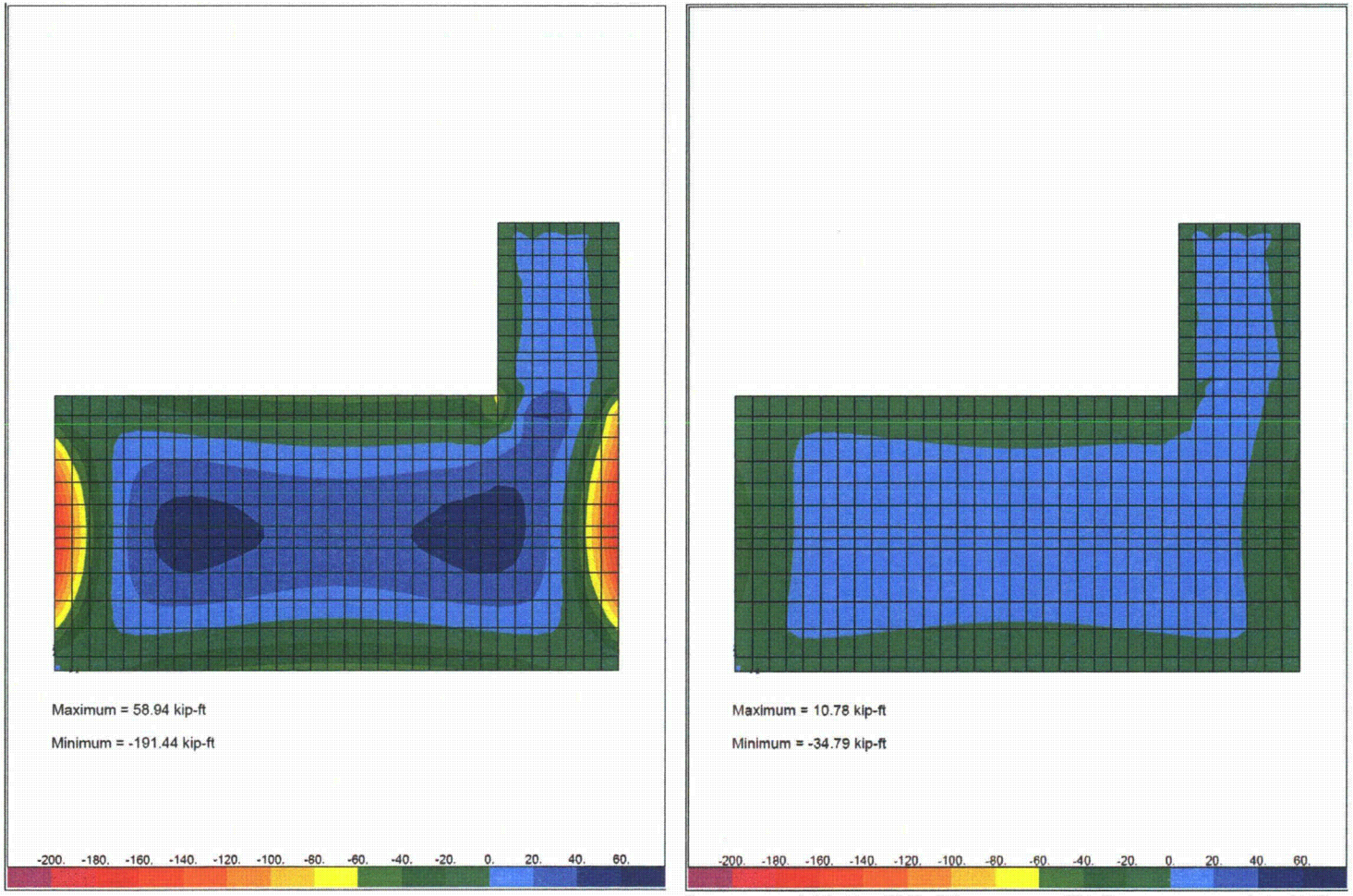

Figure 03.07.01-29 S1.195: Moment about Z-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure Excluding Separated Soil Case (right) for Wall 1 of DGFOSV

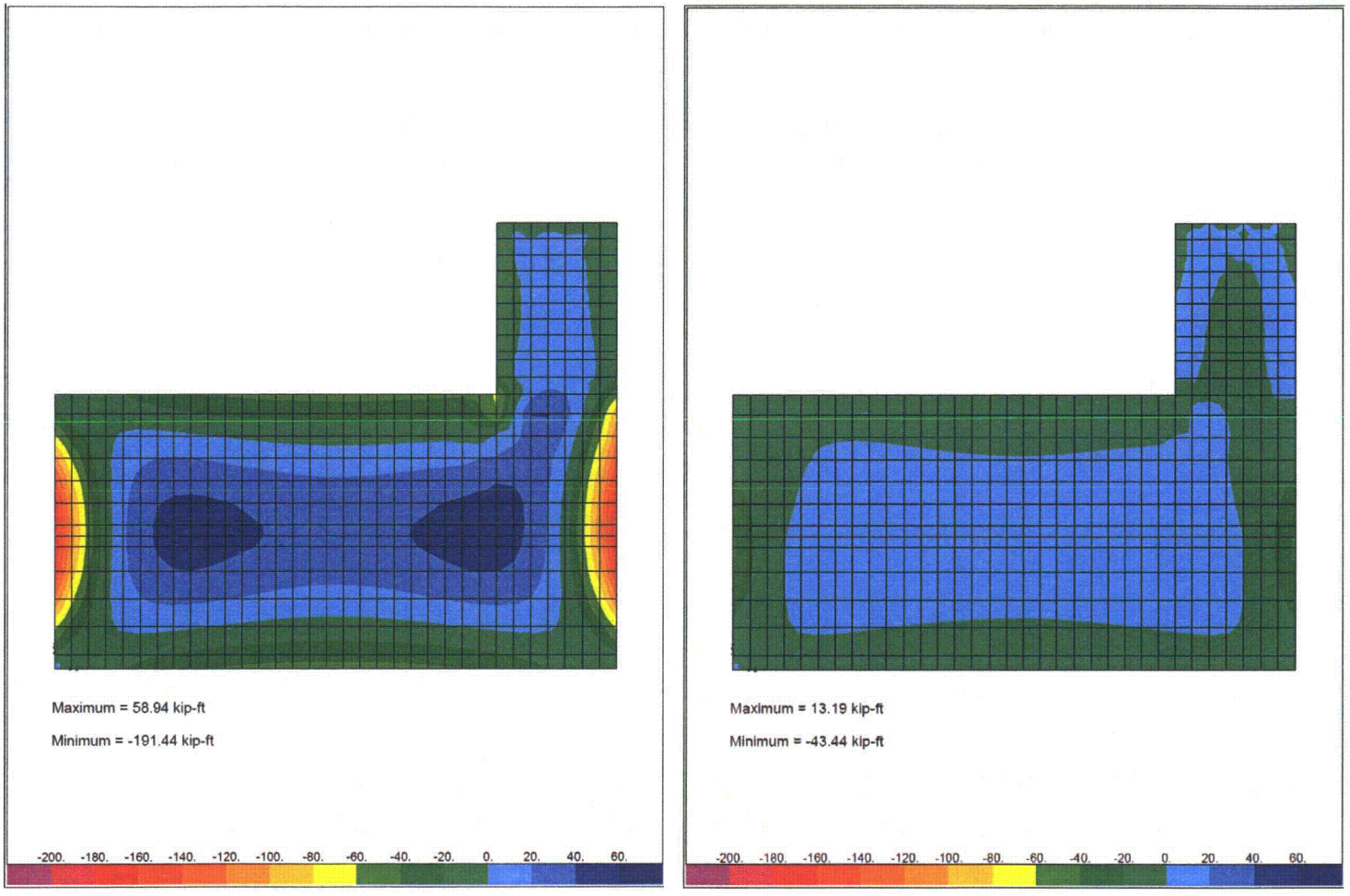

Figure 03.07.01-29 S1.196: Moment about Z-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure for Separated Soil Case (right) for Wall 1 of DGFOSV

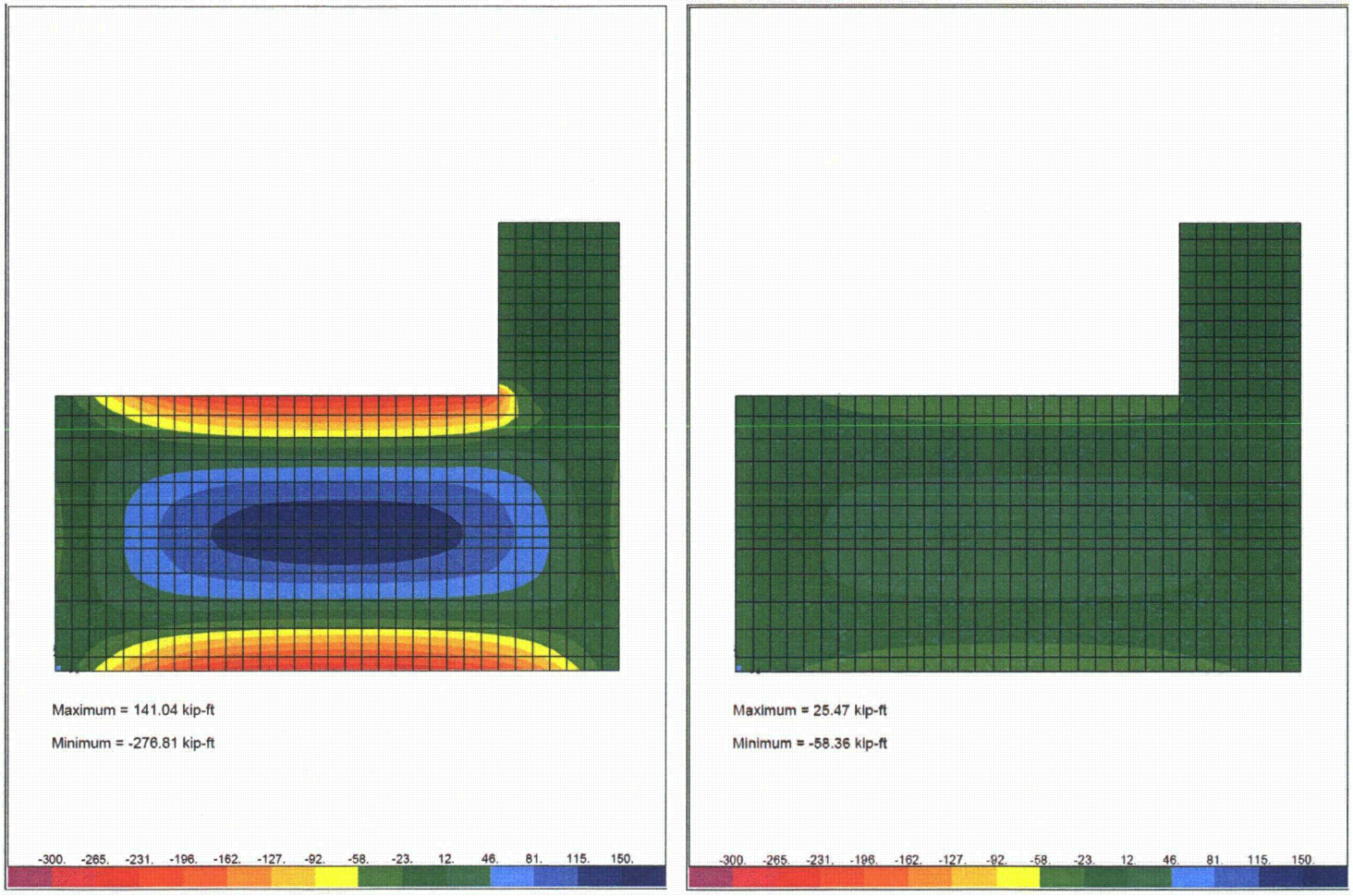

Figure 03.07.01-29 S1.197: Moment about X-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure Excluding Separated Soil Case (right) for Wall 1 of DGFOSV

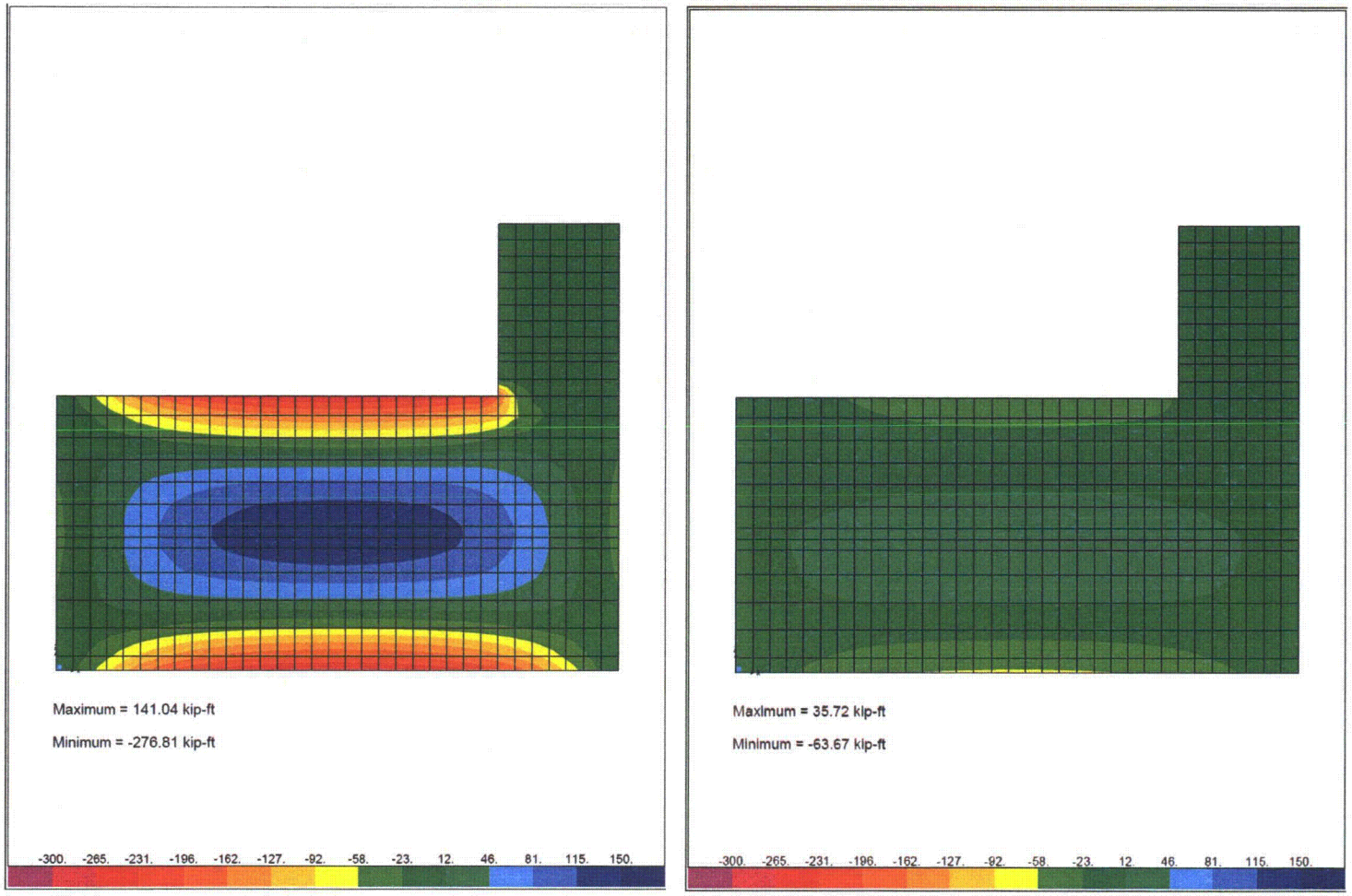

Figure 03.07.01-29 S1.198: Moment about X-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure for Separated Soil Case (right) for Wall 1 of DGFOSV

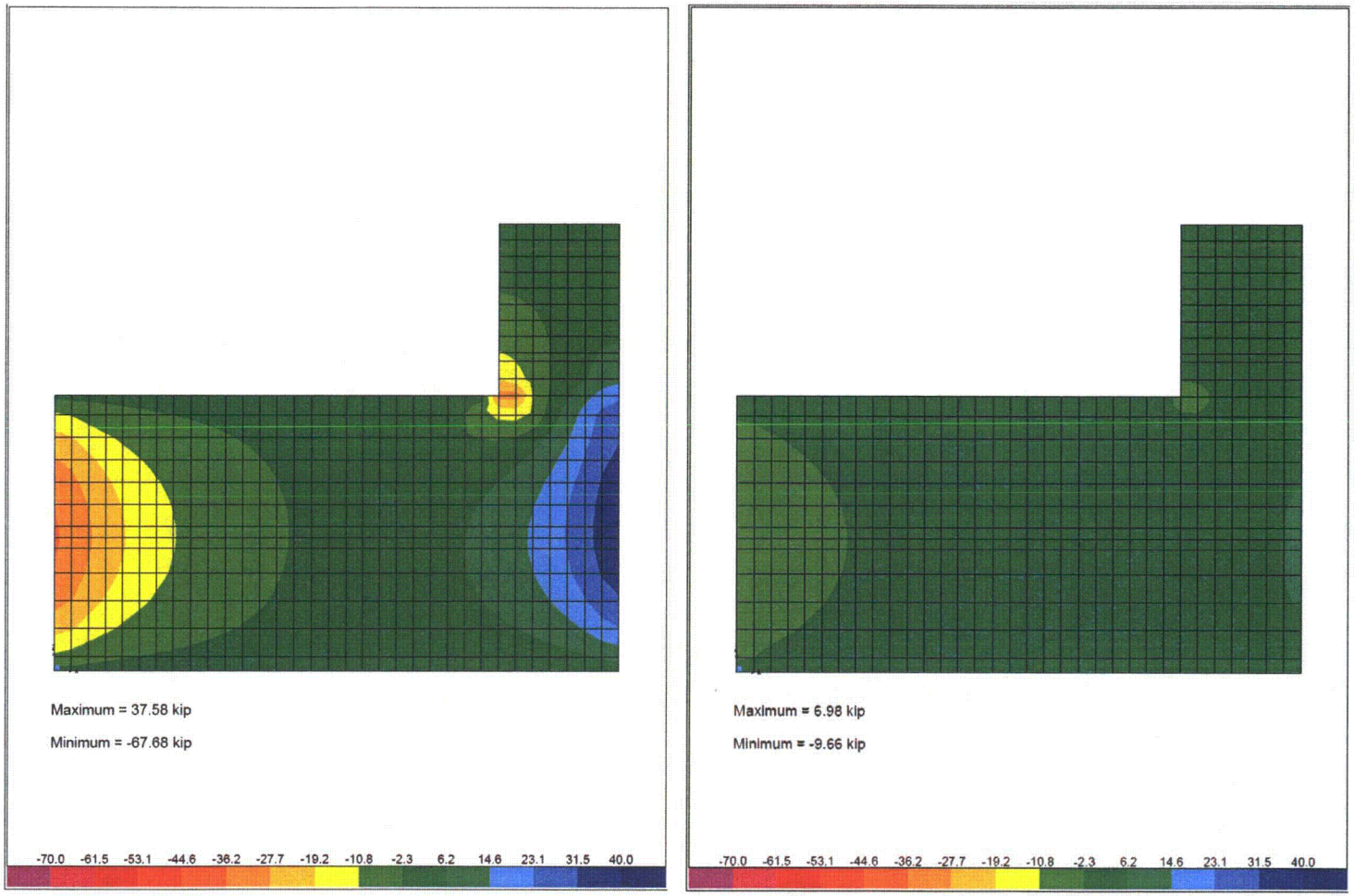

Figure 03.07.01-29 S1.199: Out-of-Plane Shear along Z-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure Excluding Separated Soil Case (right) for Wall 1 of DGFOSV

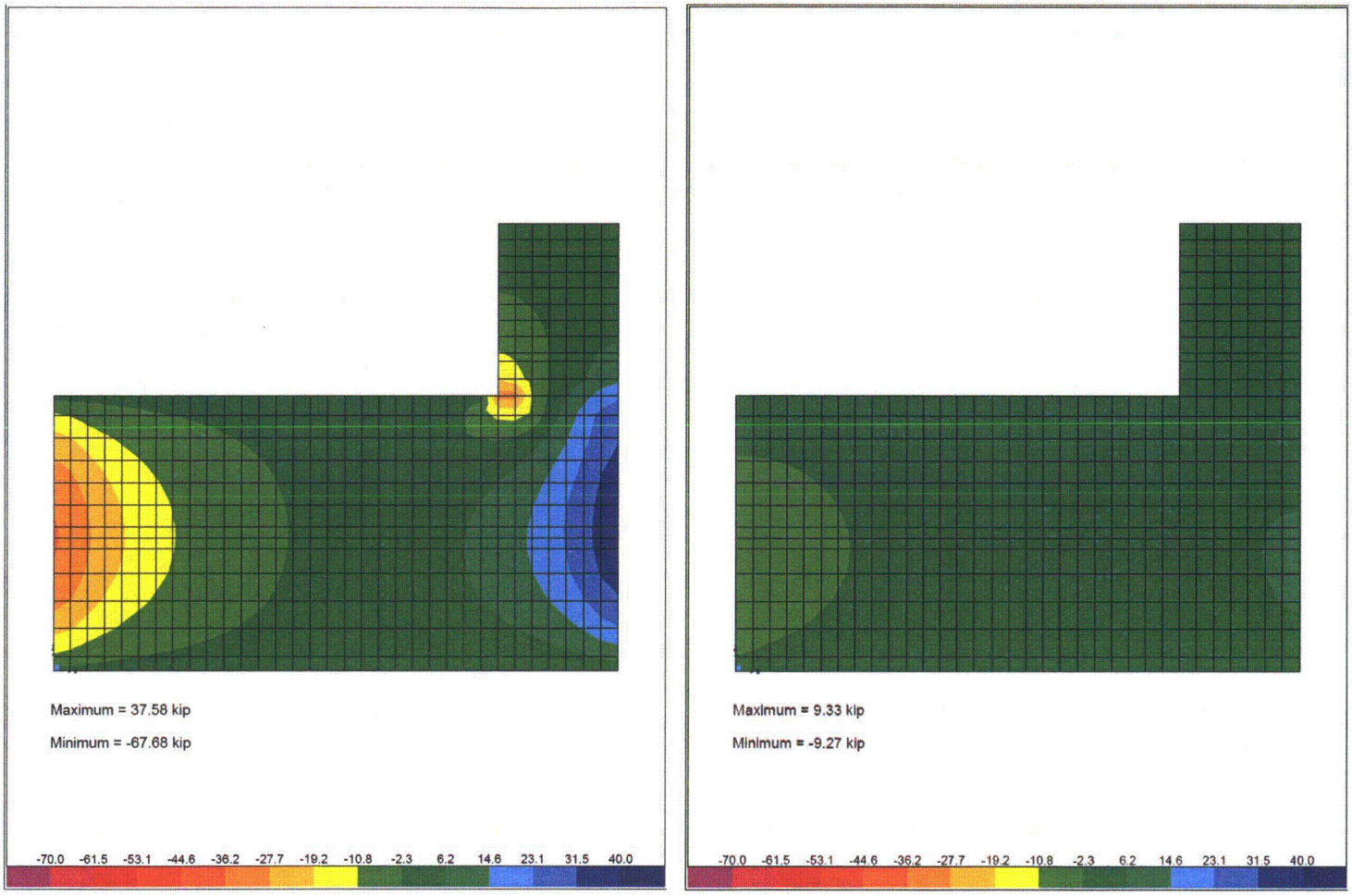

Figure 03.07.01-29 S1.200: Out-of-Plane Shear along Z-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure for Separated Soil Case (right) for Wall 1 of DGFOSV

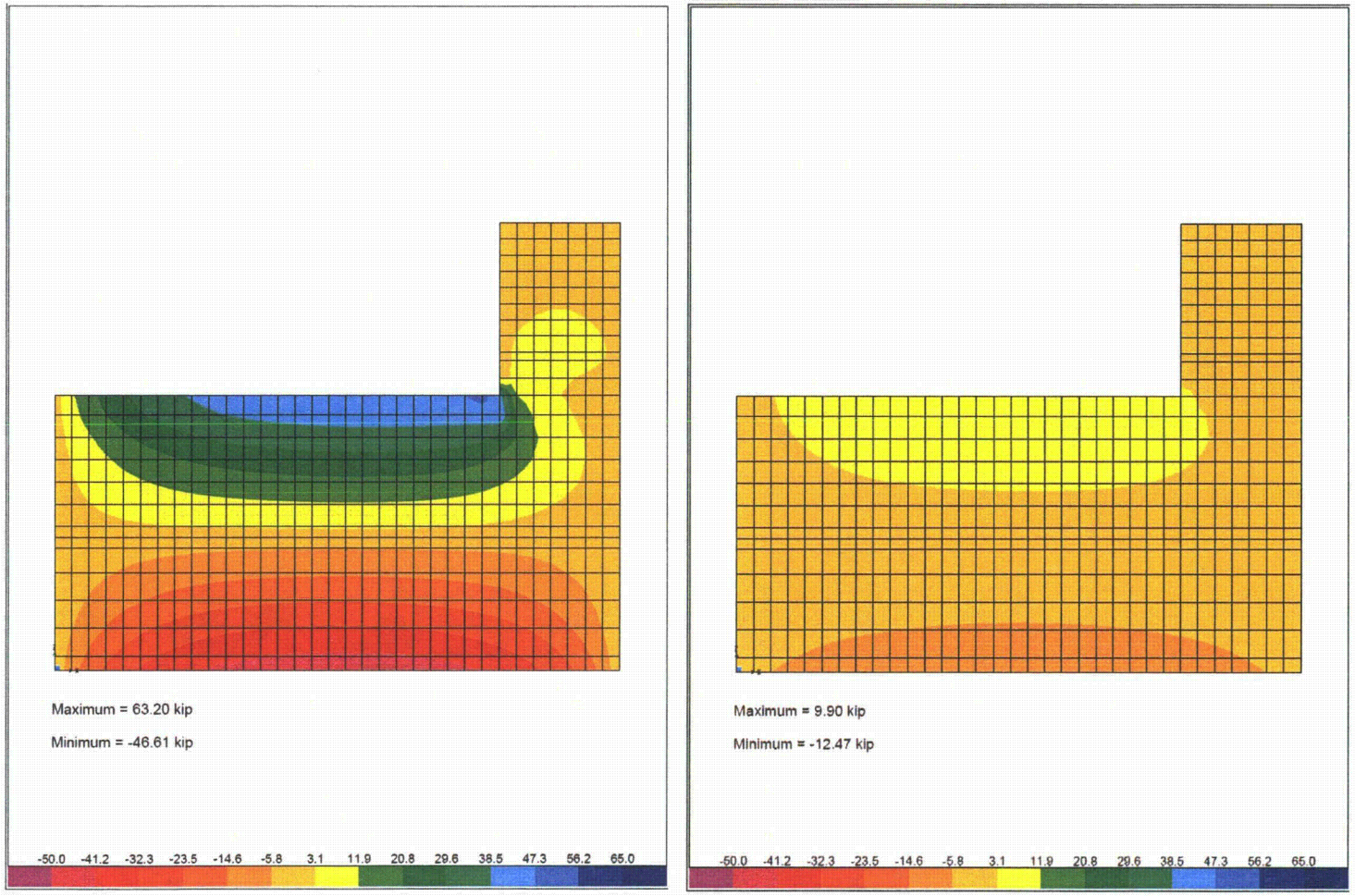

Figure 03.07.01-29 S1.201: Out-of-Plane Shear along X-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure Excluding Separated Soil Case (right) for Wall 1 of DGFOSV

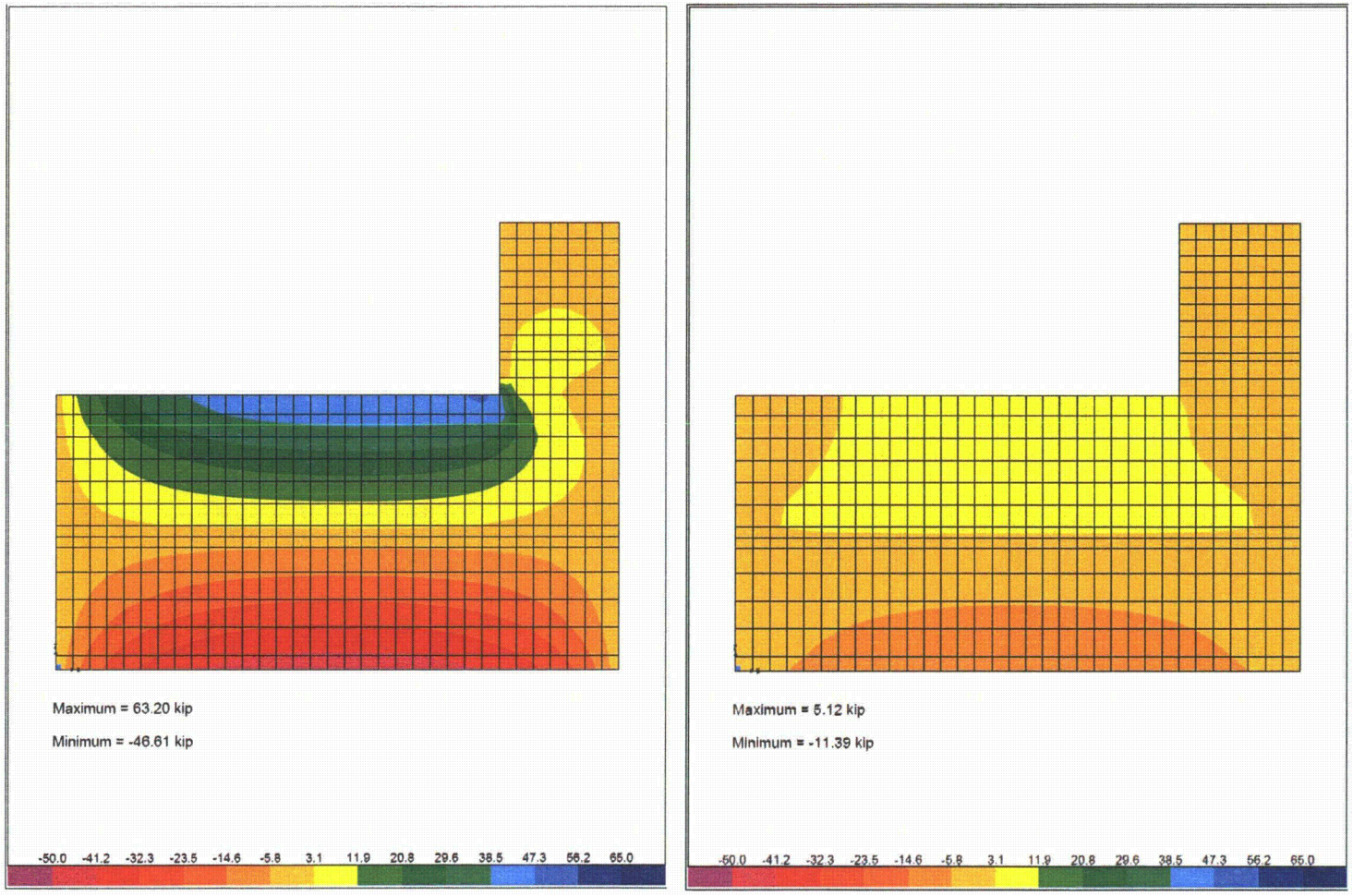

Figure 03.07.01-29 S1.202: Out-of-Plane Shear along X-axis for Design Dynamic Soil Pressure (left) and SSI Soil Pressure for Separated Soil Case (right) for Wall 1 of DGFOSV

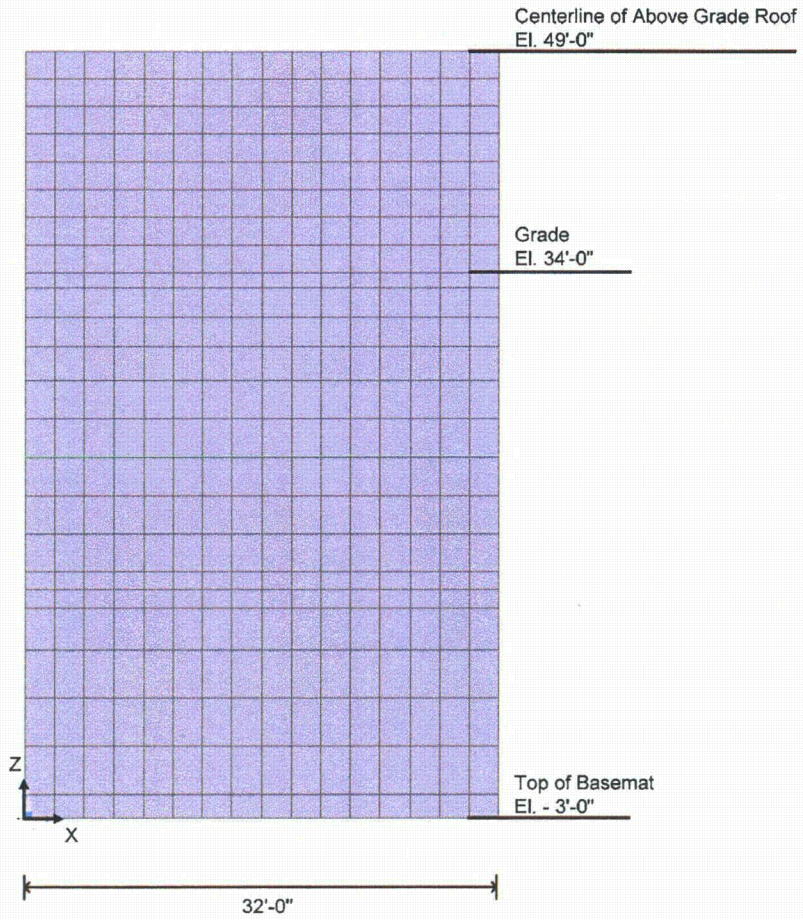

Figure 03.07.01-29 S1.203: SAP2000 Model of Wall 2 of DGFOSV