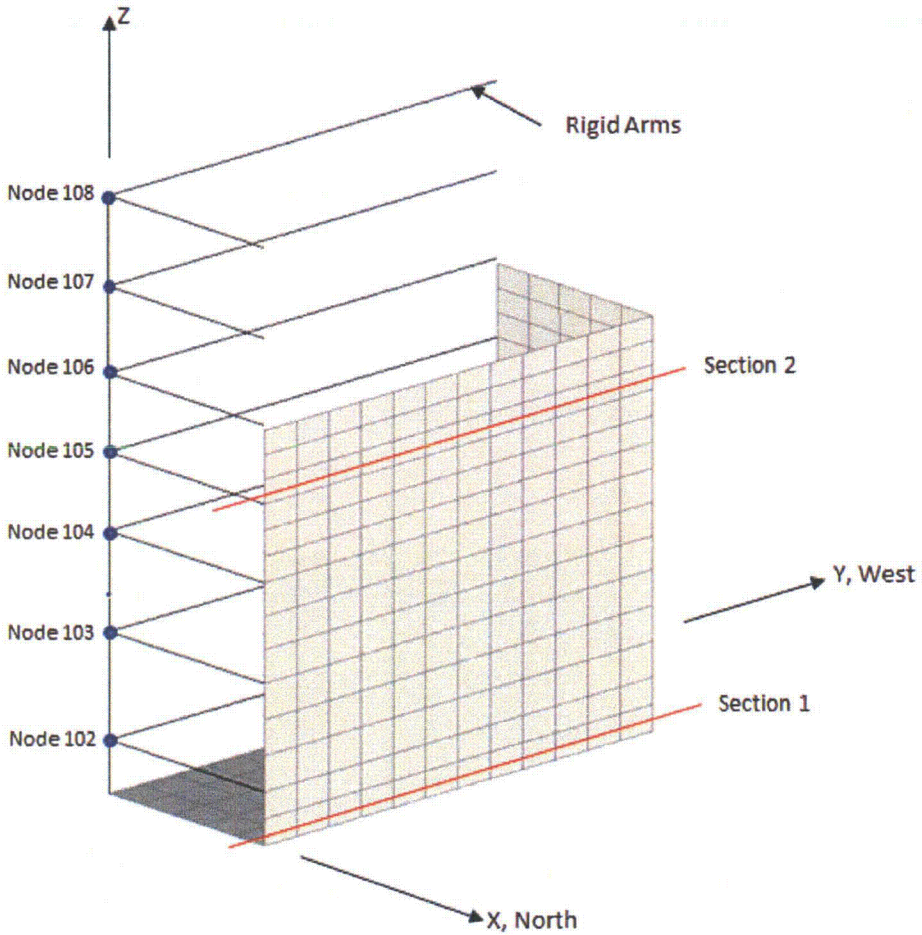


Figure 03.07.01-29 S1.2: Control Building Section Force Calculation Location

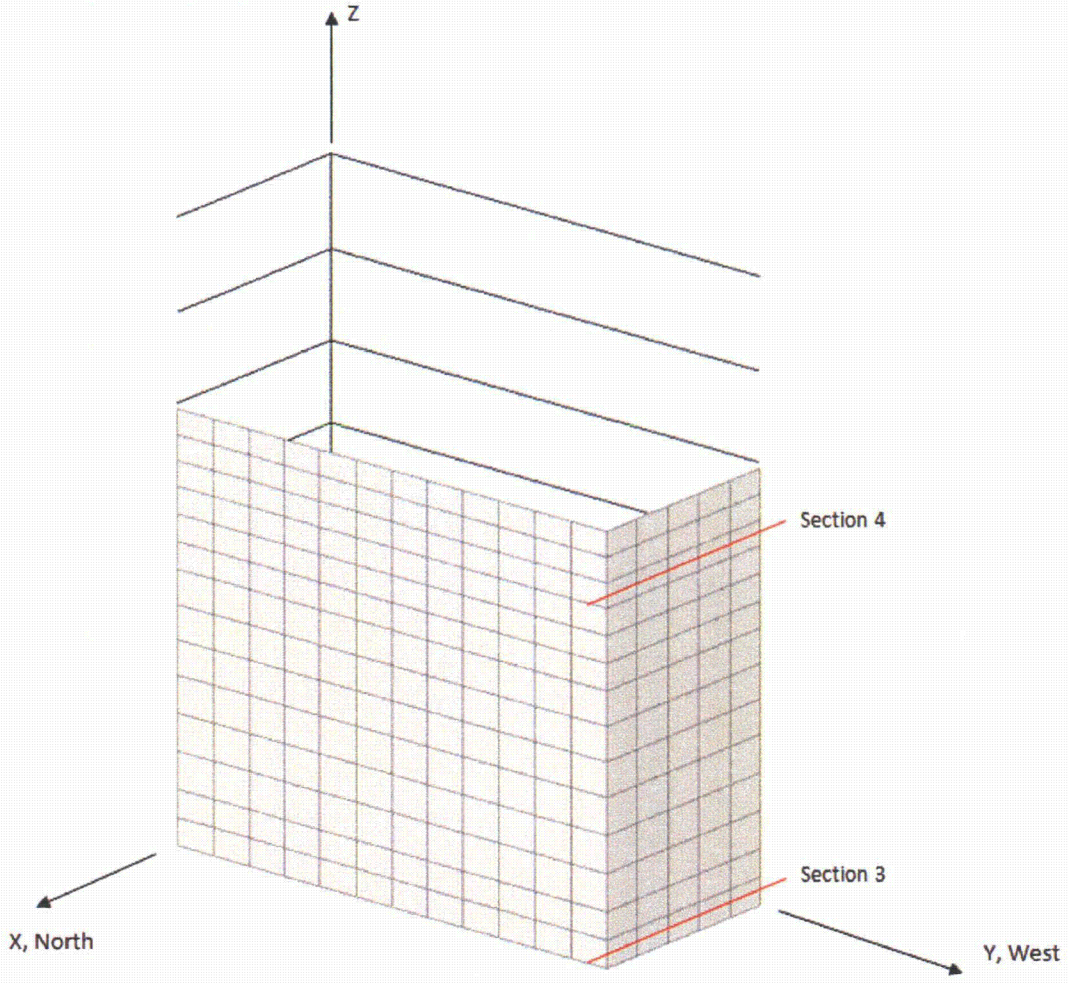


Figure 03.07.01-29 S1.3: Control Building Section Force Calculation Location

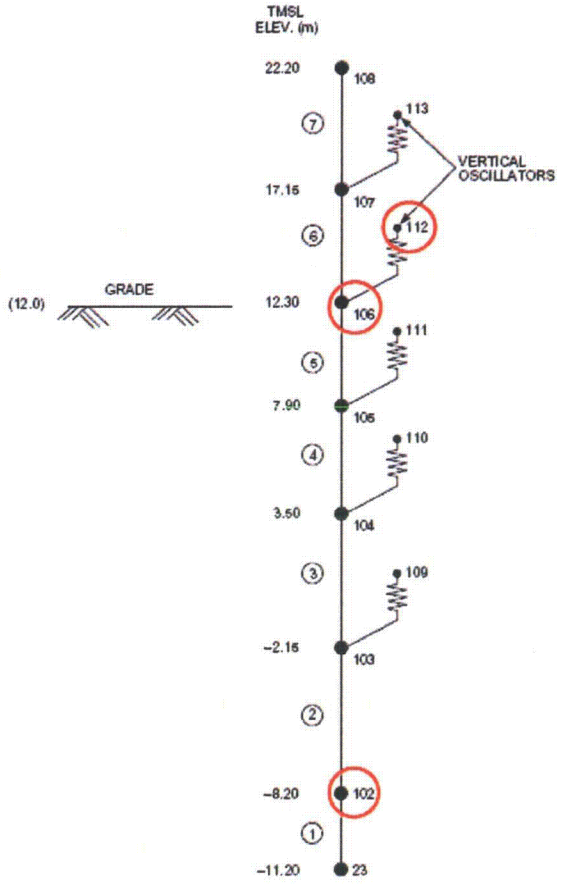


Figure 03.07.01-29 S1.4: Control Building Node Locations

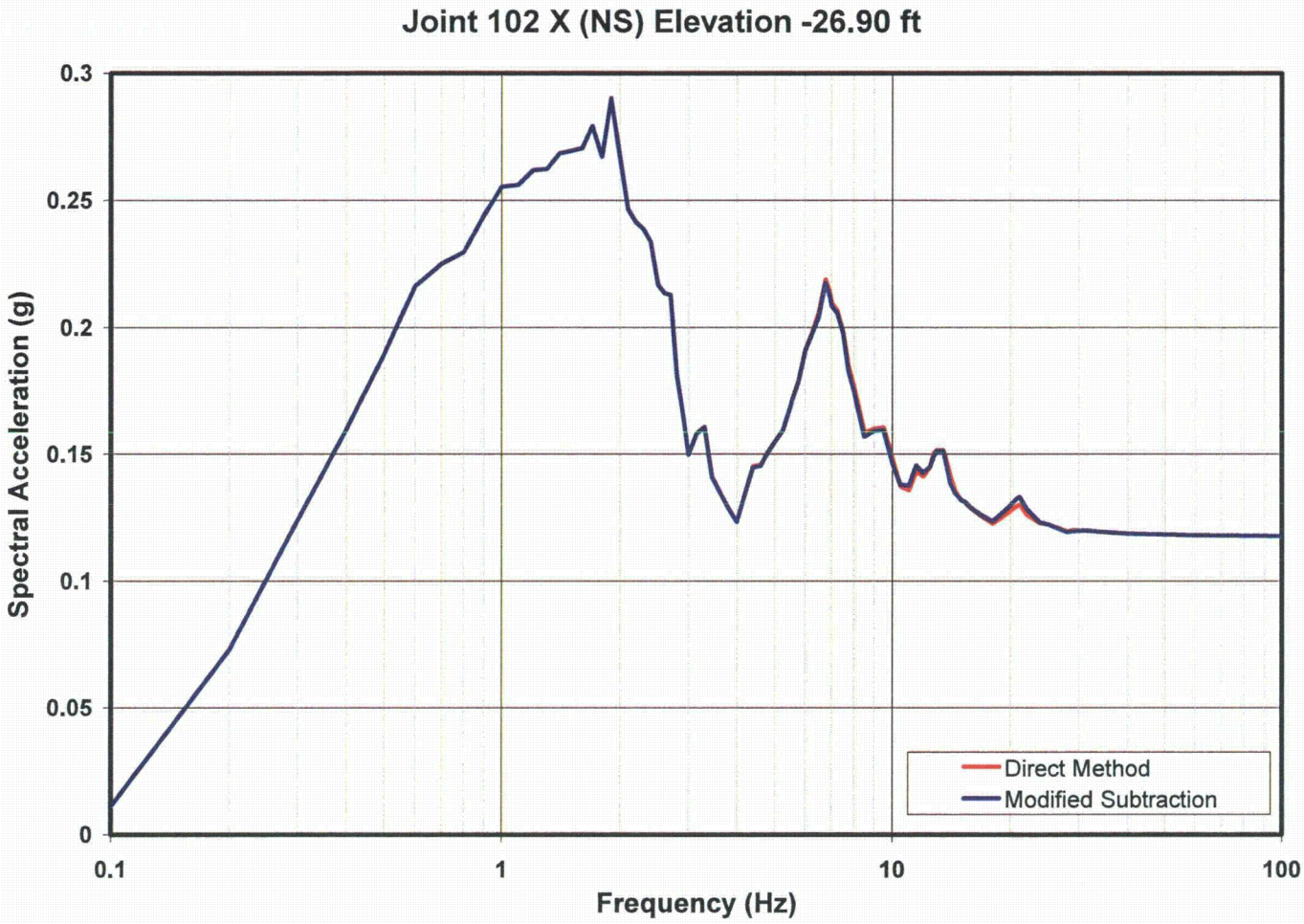


Figure 03.07.01-29 S1.5: 5% Damped Acceleration Response Spectra Comparison X (NS) Response Spectra Due to X Input Motion (Joint 102 Elevation -26.90 ft)

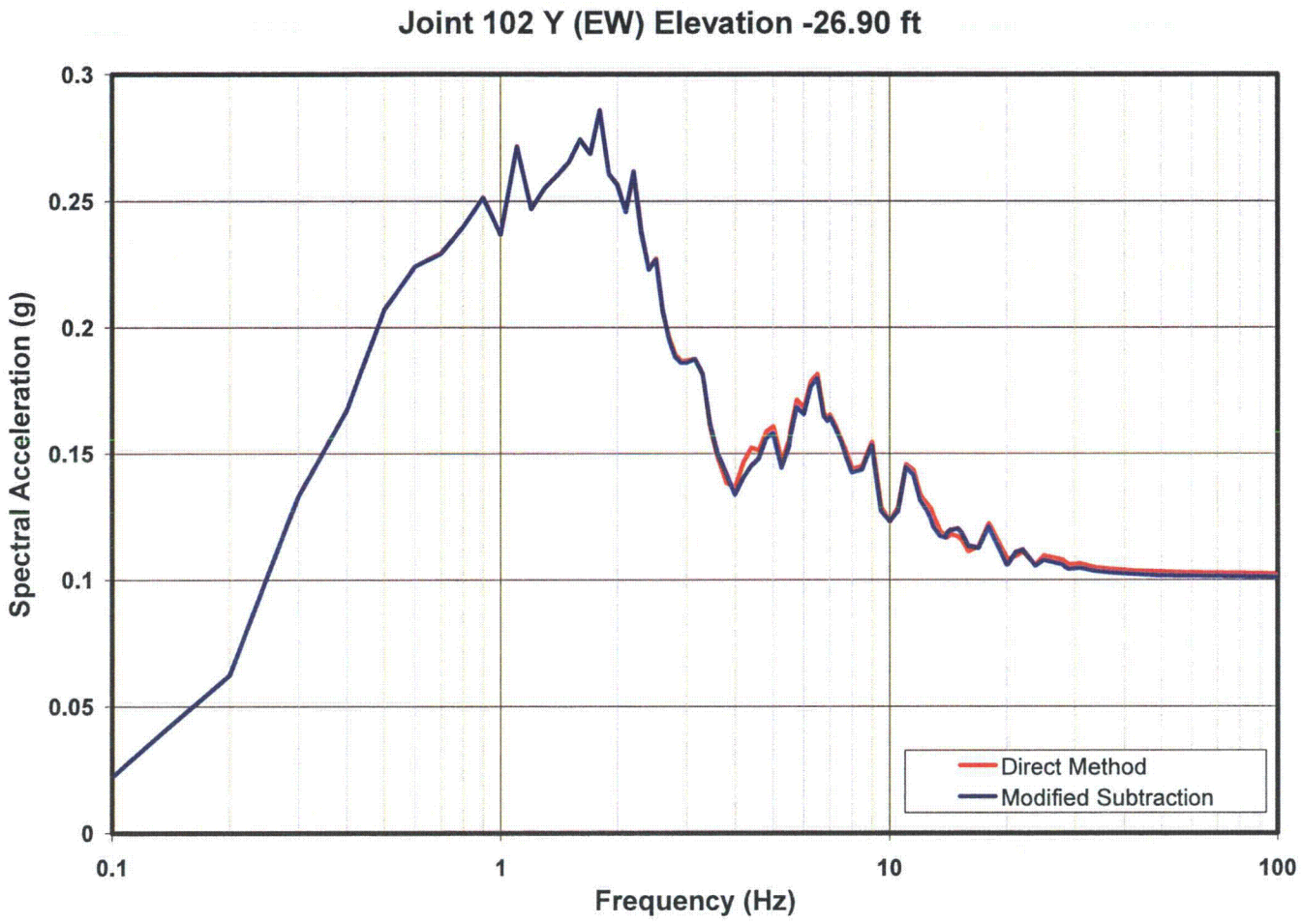


Figure 03.07.01-29 S1.6: 5% Damped Acceleration Response Spectra Comparison Y (EW) Response Spectra Due to Y Input Motion (Joint 102 Elevation -26.90 ft)

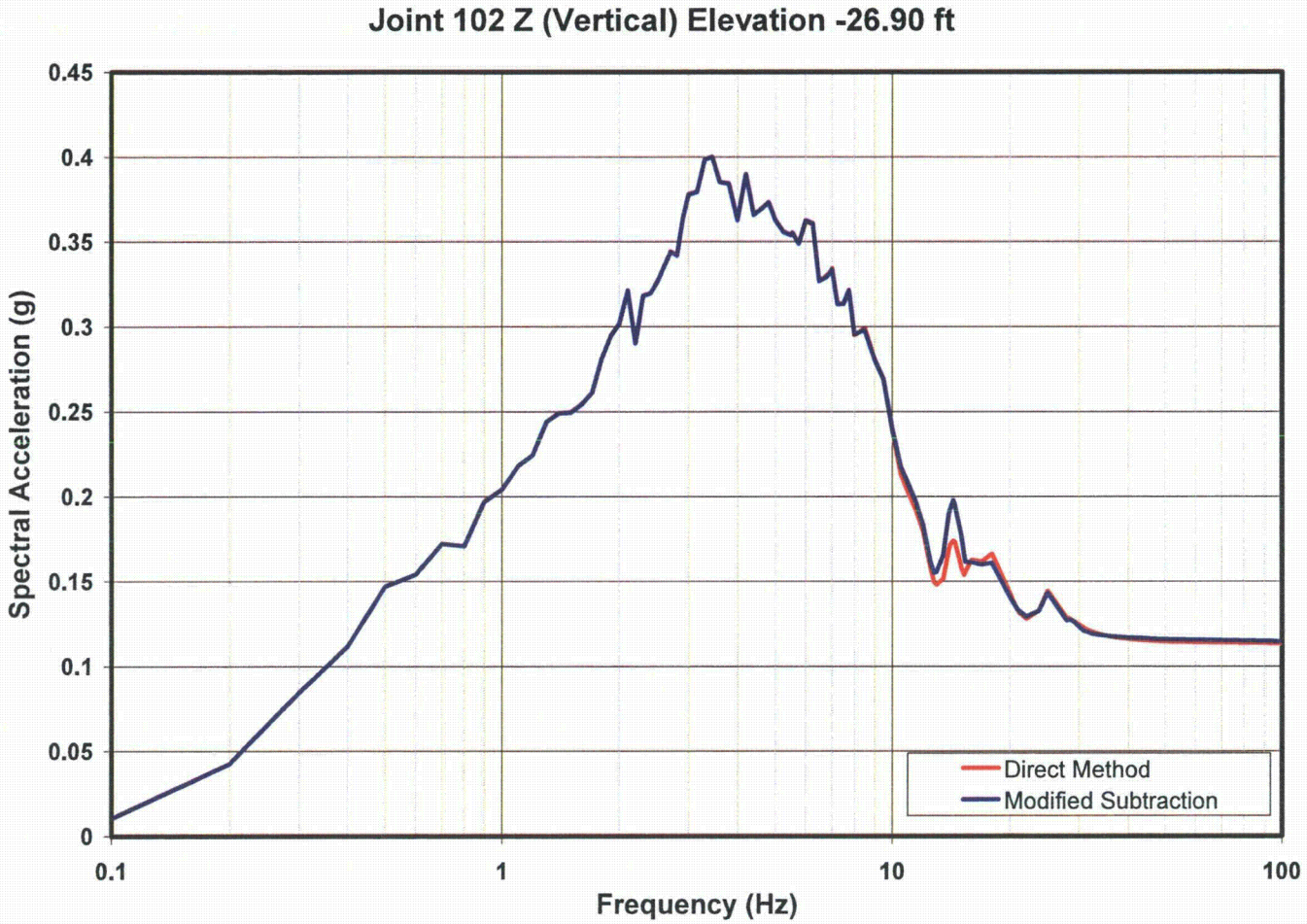


Figure 03.07.01-29 S1.7: 5% Damped Acceleration Response Spectra Comparison Z (Vertical) Response Spectra Due to Z Input Motion (Joint 102 Elevation -26.90 ft)

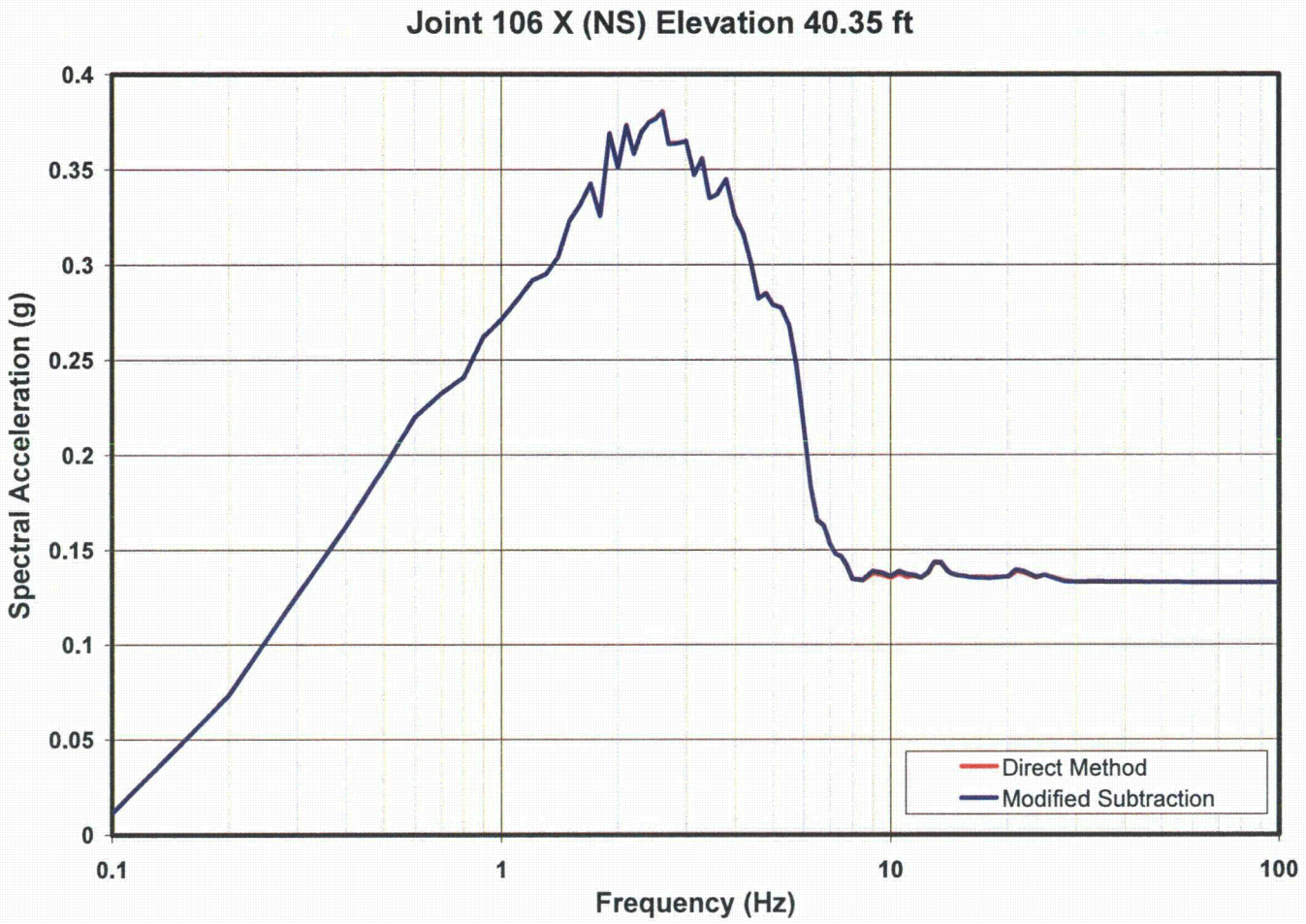


Figure 03.07.01-29 S1.8: 5% Damped Acceleration Response Spectra Comparison X (NS) Response Spectra Due to X Input Motion (Joint 106 Elevation 40.35 ft)

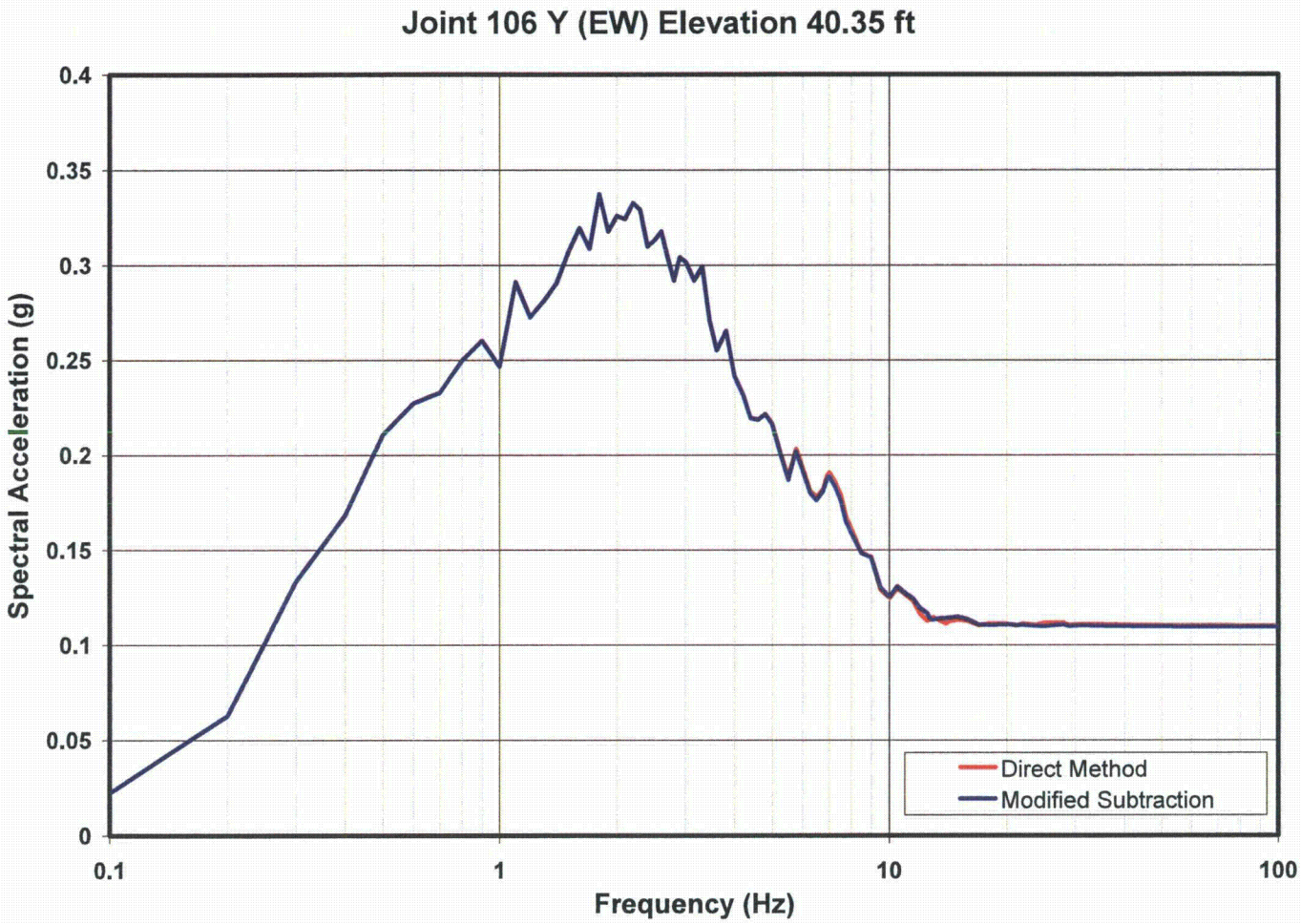


Figure 03.07.01-29 S1.9: 5% Damped Acceleration Response Spectra Comparison Y (EW) Response Spectra Due to Y Input Motion (Joint 106 Elevation 40.35 ft)

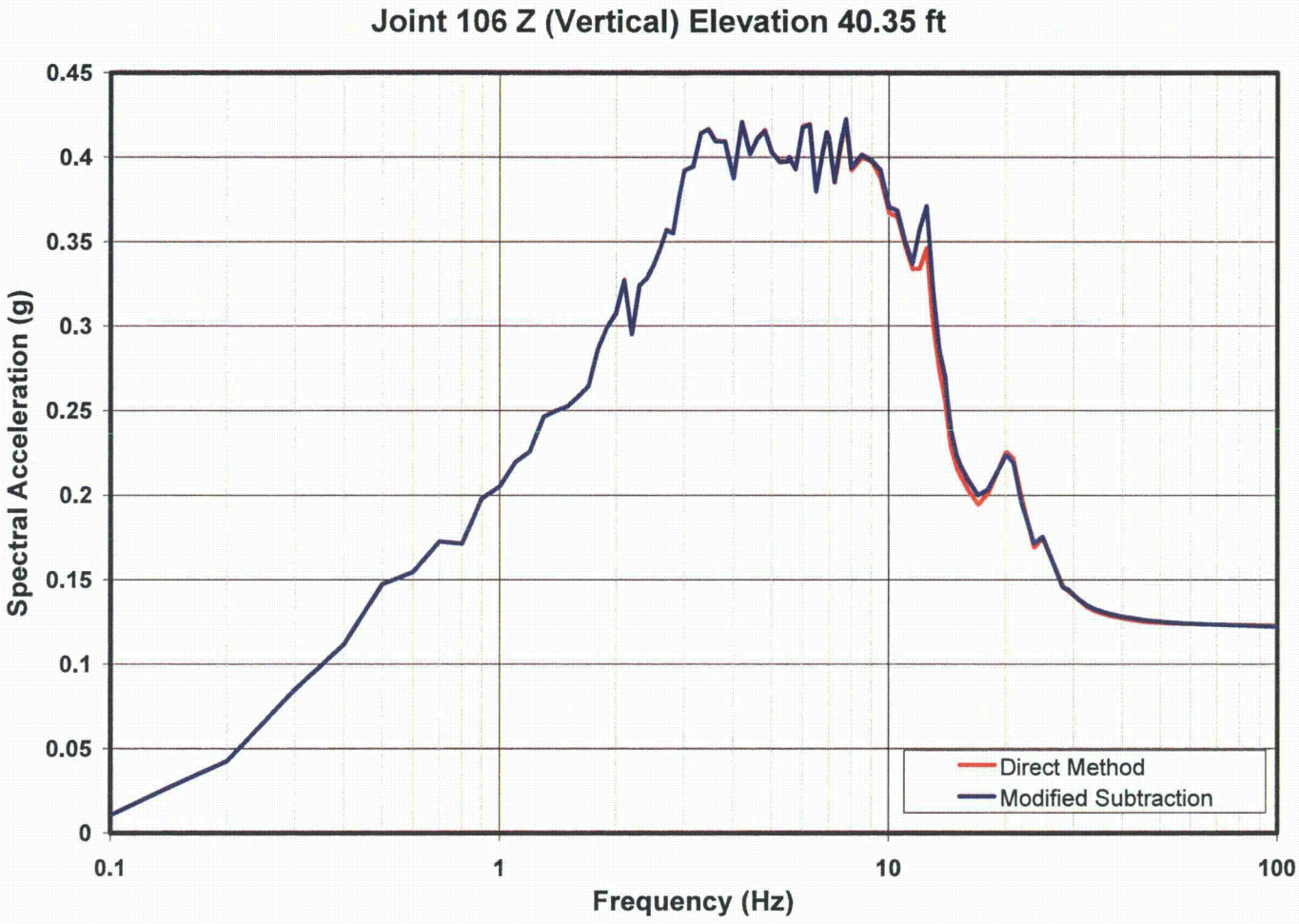


Figure 03.07.01-29 S1.10: 5% Damped Acceleration Response Spectra Comparison Z (Vertical) Response Spectra Due to Z Input Motion (Joint 106 Elevation 40.35 ft)

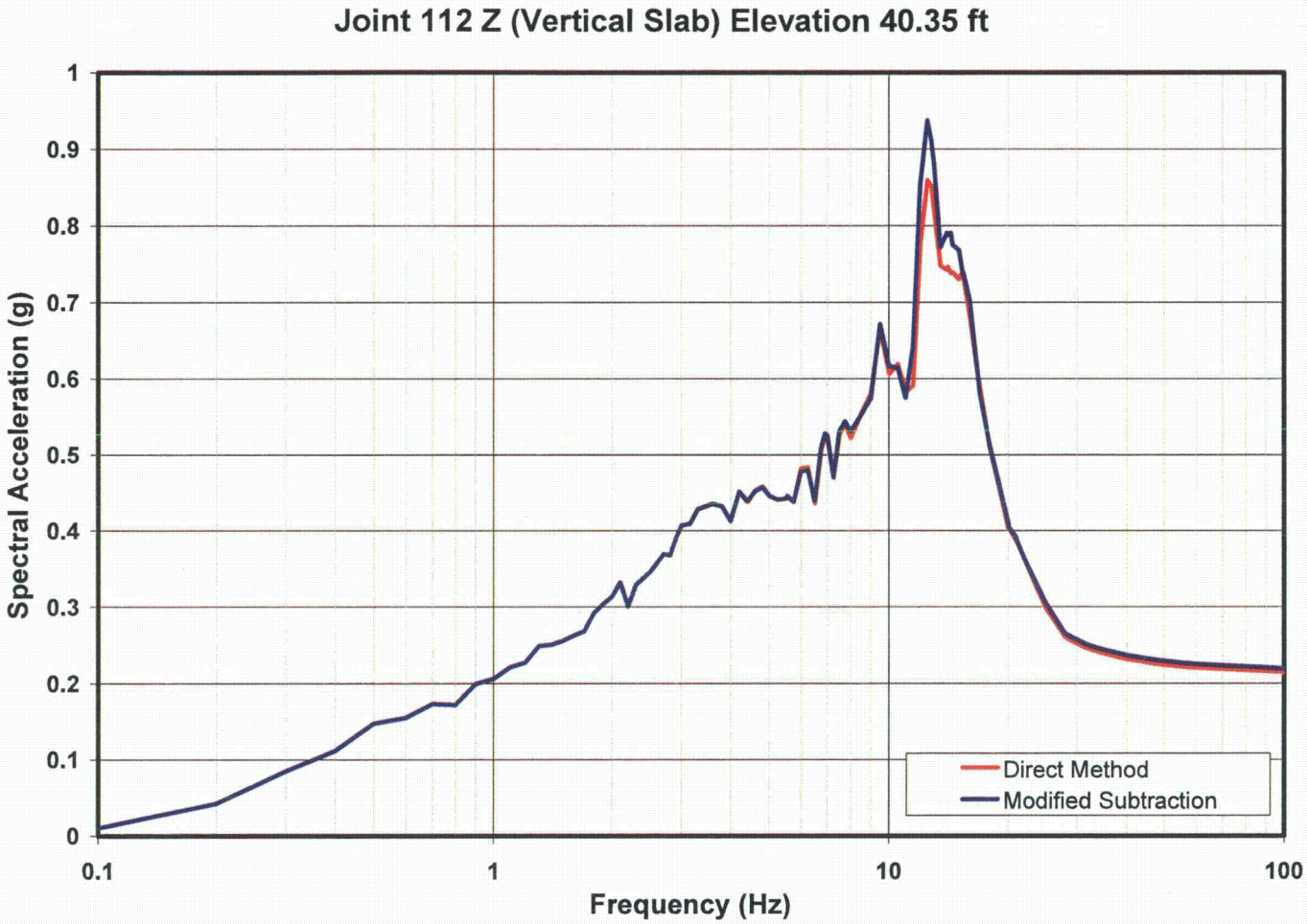


Figure 03.07.01-29 S1.11: 5% Damped Acceleration Response Spectra Comparison Z (Vertical Slab) Response Spectra Due to Z Input Motion (Joint 112 Elevation 40.35 ft)

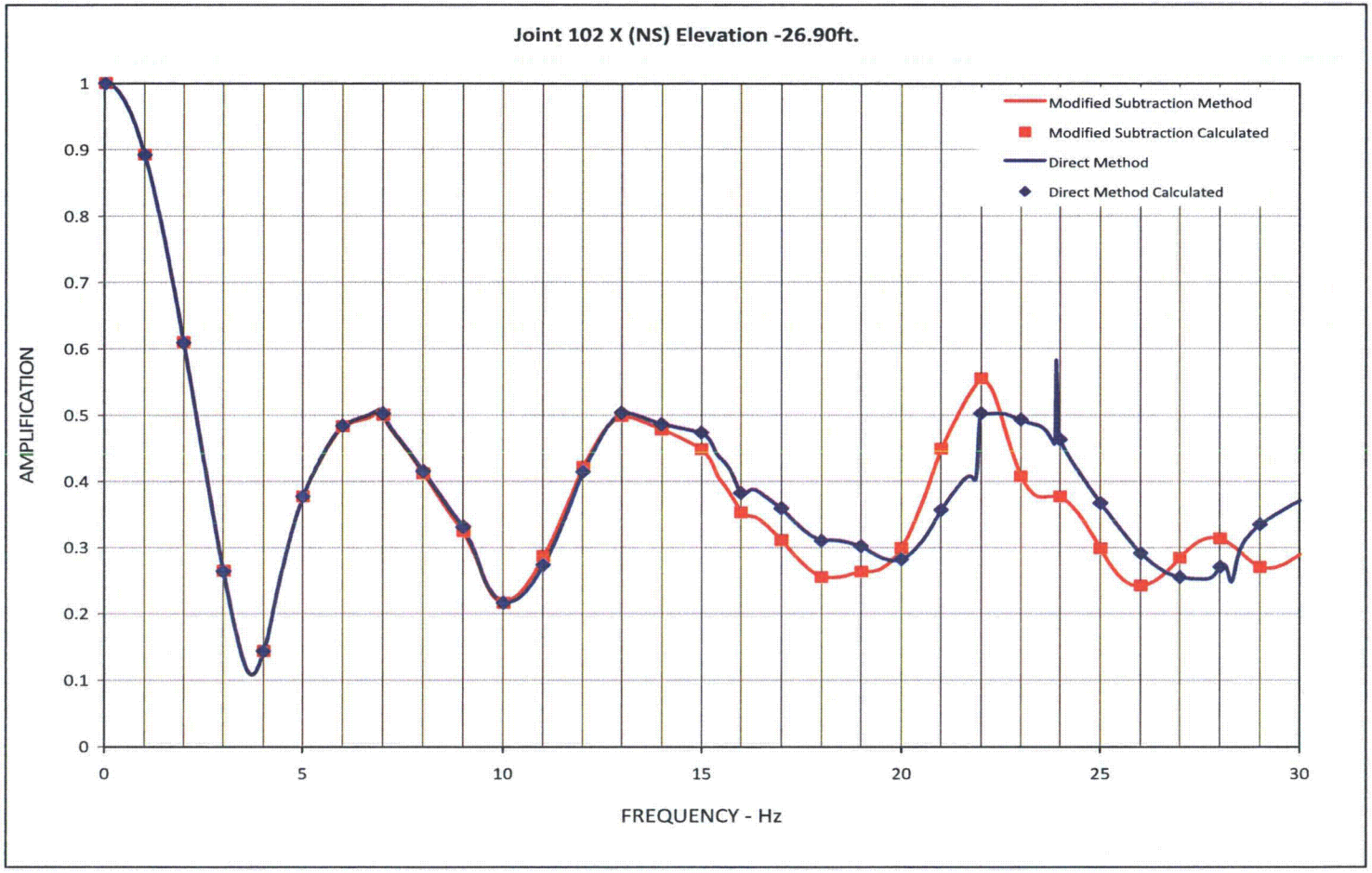


Figure 03.07.01-29 S1.12: Interpolated and Calculated Transfer Function Comparison X (NS) Response Due to X Input Motion

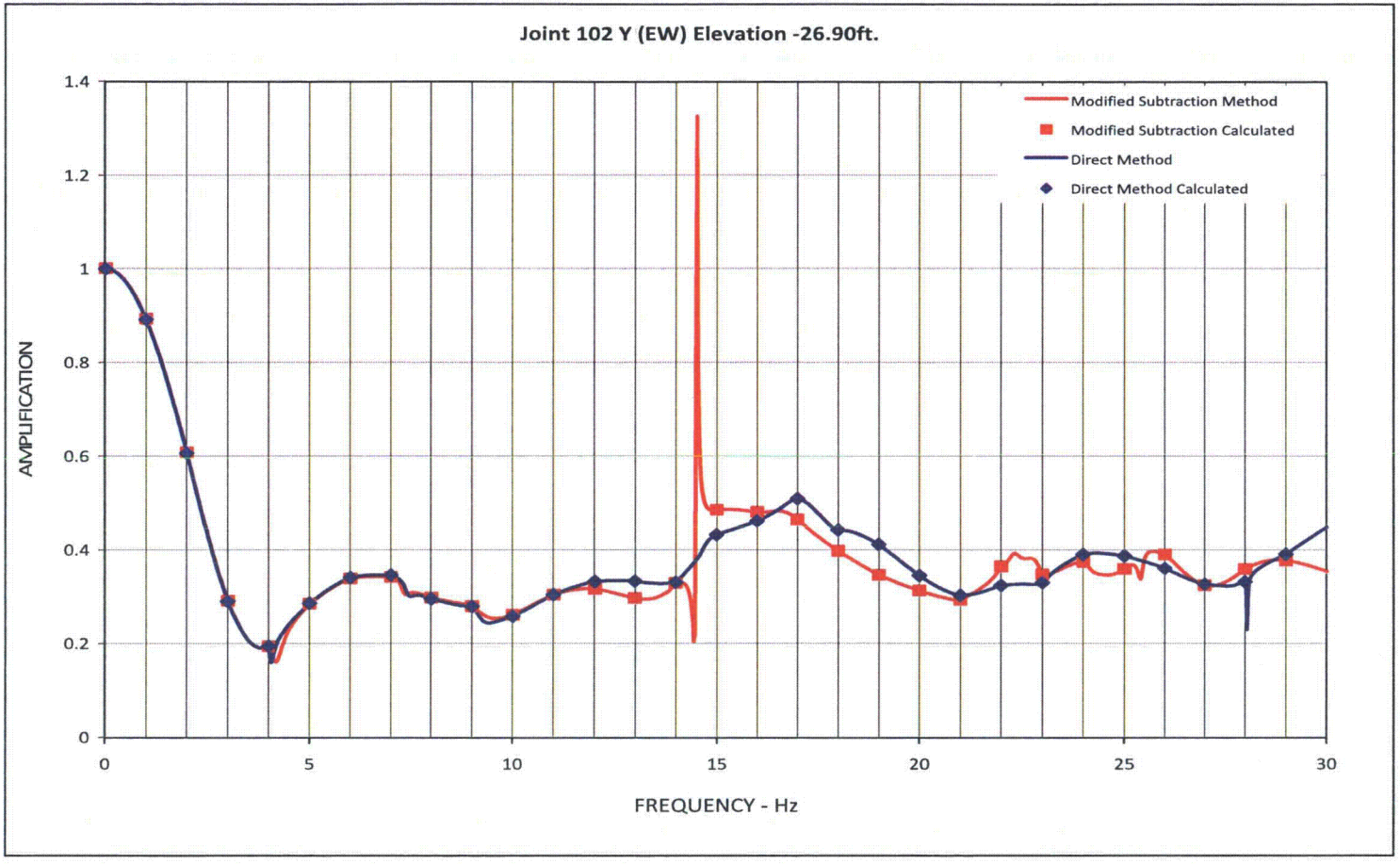


Figure 03.07.01-29 S1.13: Interpolated and Calculated Transfer Function Comparison Y (EW) Response Due to Y Input Motion

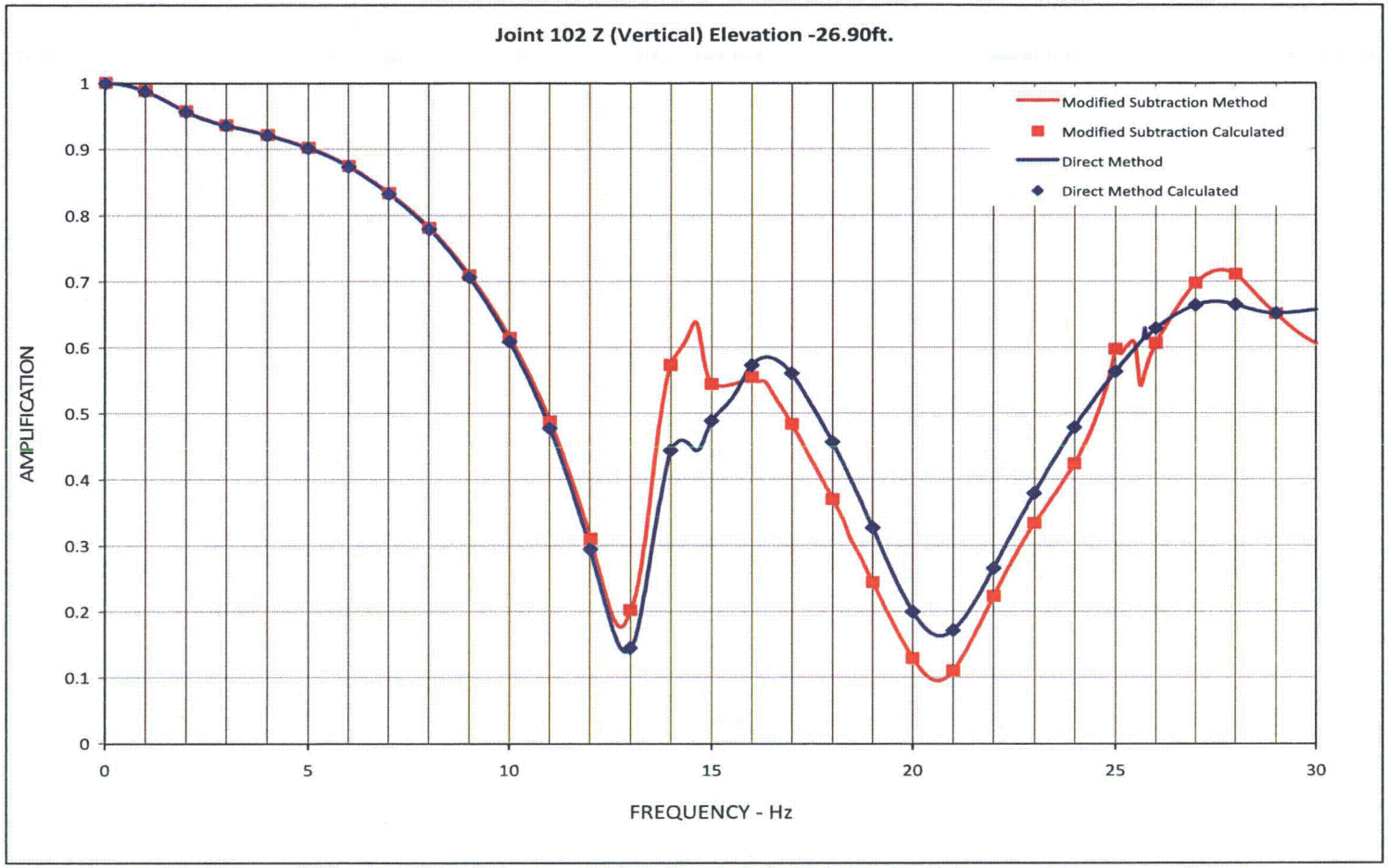


Figure 03.07.01-29 S1.14: Interpolated and Calculated Transfer Function Comparison Z (Vertical) Response Due to Z Input Motion

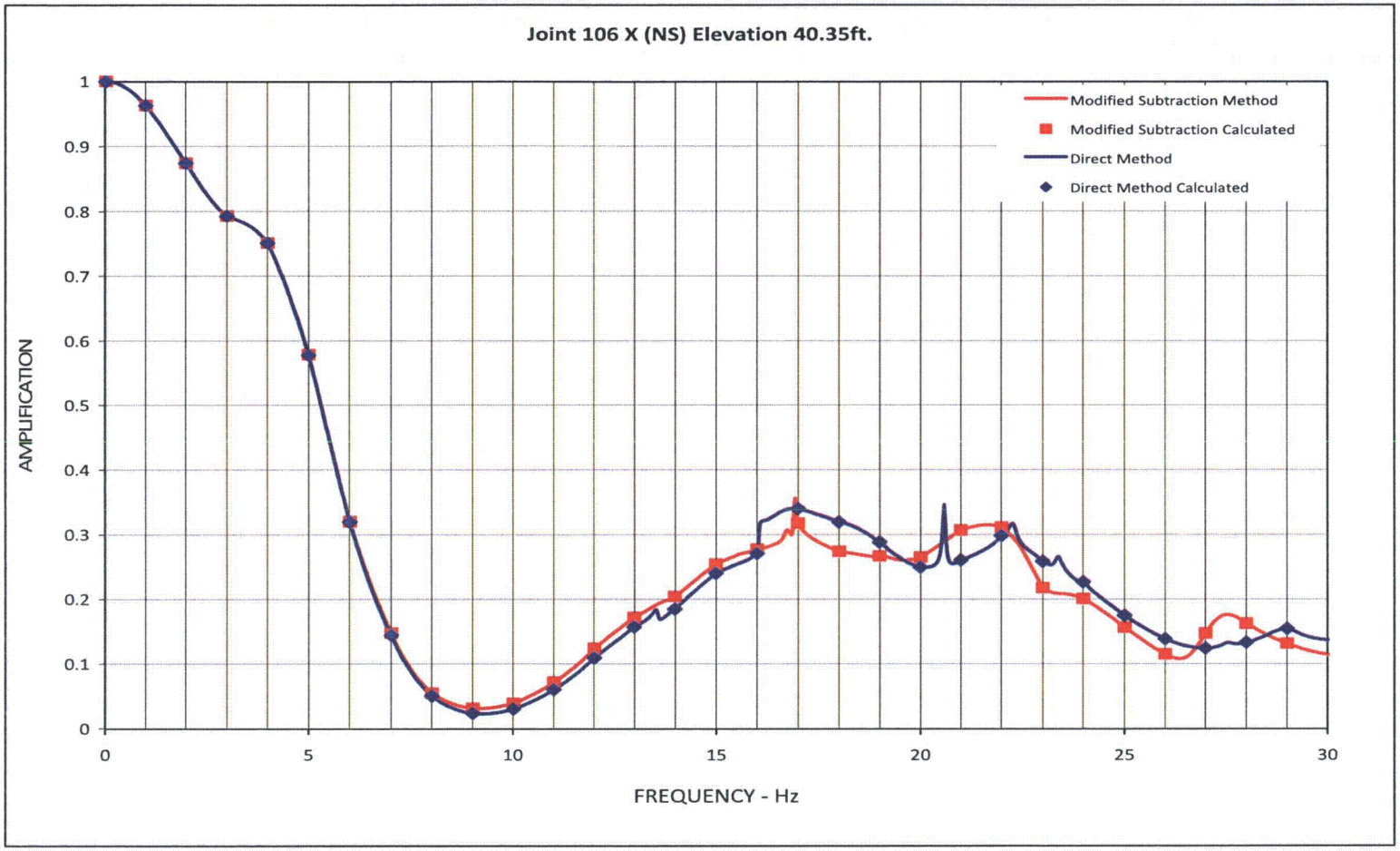


Figure 03.07.01-29 S1.15: Interpolated and Calculated Transfer Function Comparison X (NS) Response Due to X Input Motion

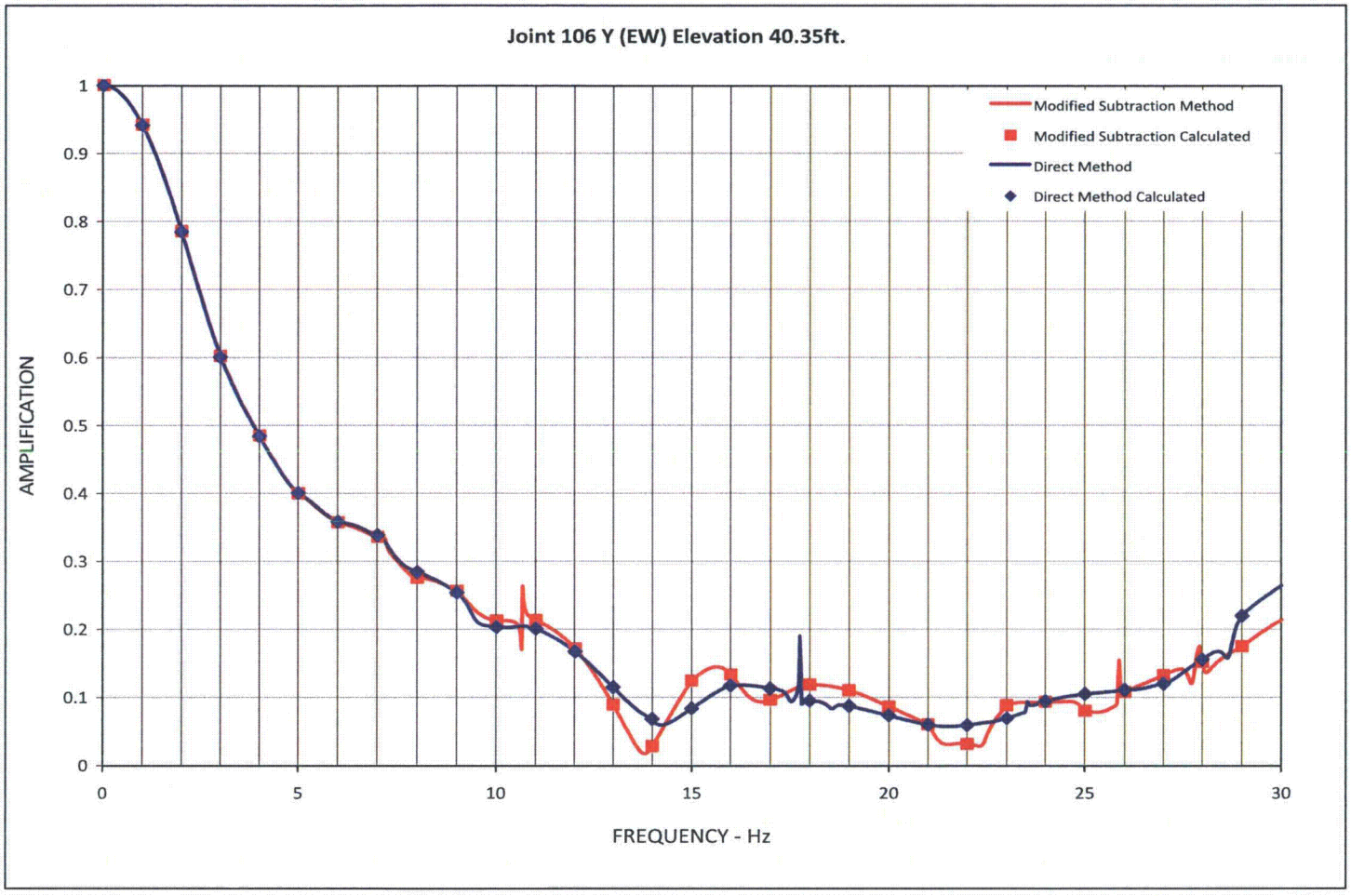


Figure 03.07.01-29 S1.16: Interpolated and Calculated Transfer Function Comparison Y (EW) Response Due to Y Input Motion

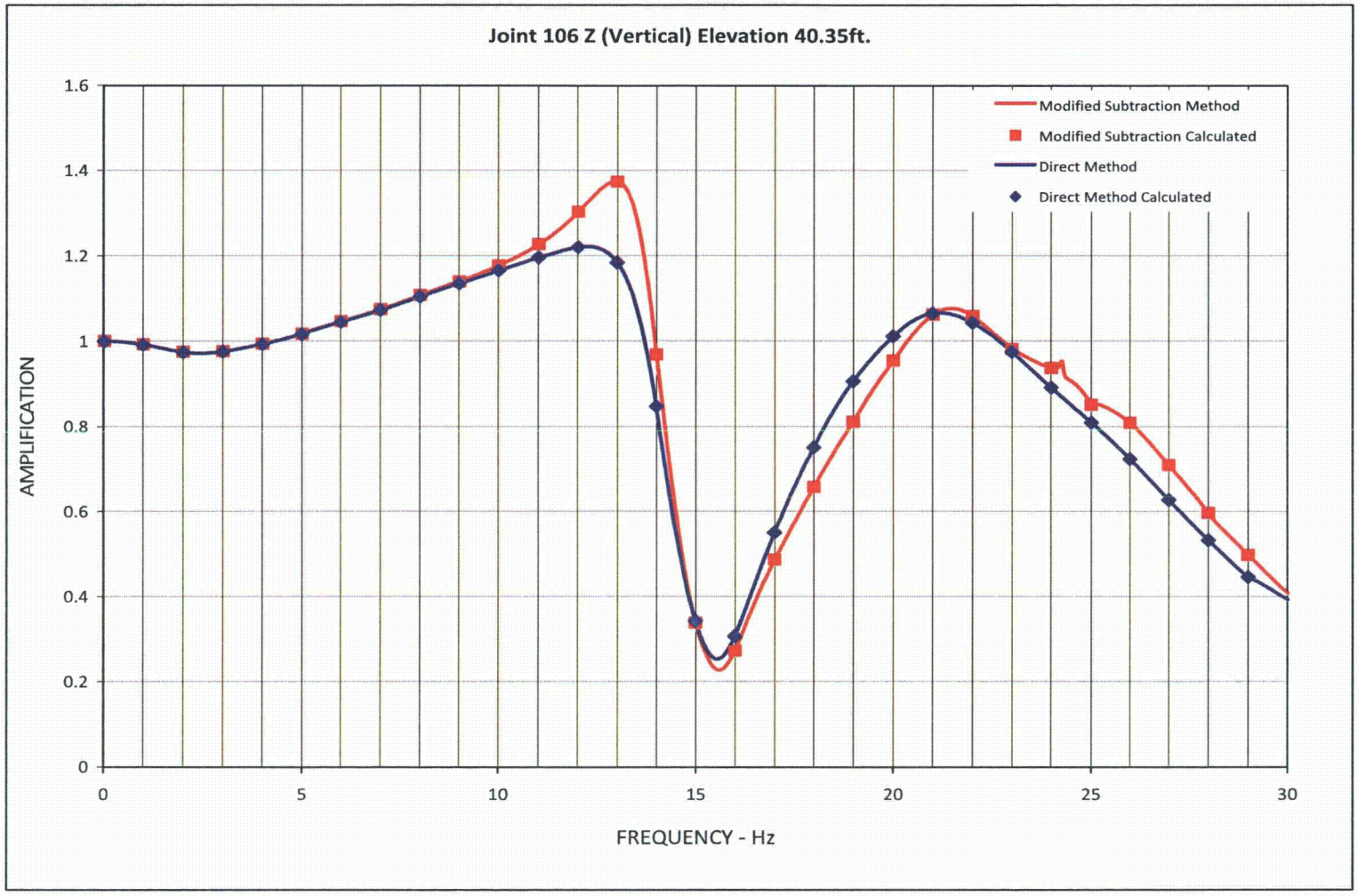


Figure 03.07.01-29 S1.17: Interpolated and Calculated Transfer Function Comparison Z (Vertical) Response Due to Z Input Motion

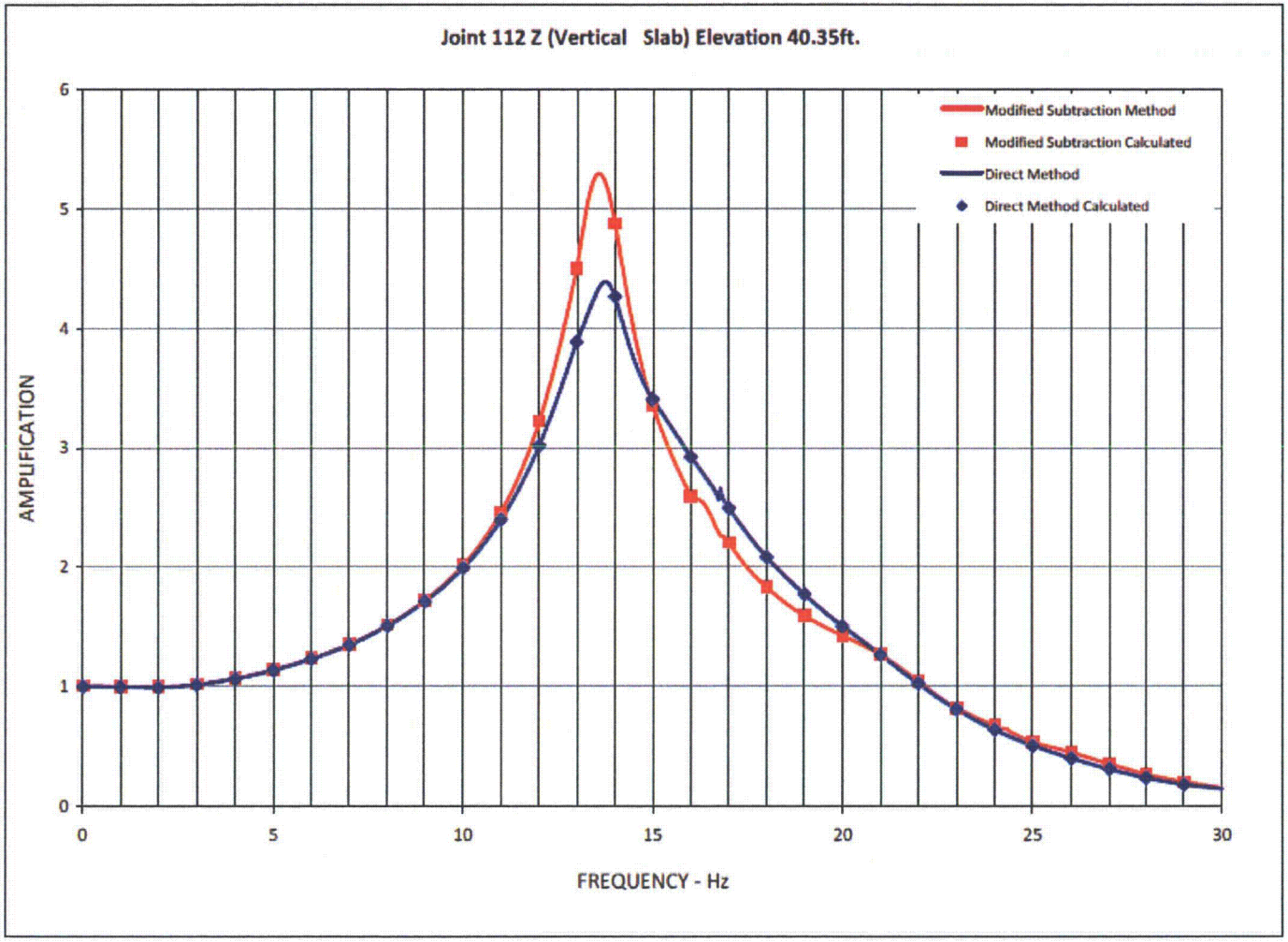


Figure 03.07.01-29 S1.18: Interpolated and Calculated Transfer Function Comparison Z (Vertical Slab) Response Due to Z Input Motion (Joint 112 Elevation 40.35 ft)

Figure Numbers 03.07.01-29 S1.19 through 03.07.01-29 S1.21 are not used

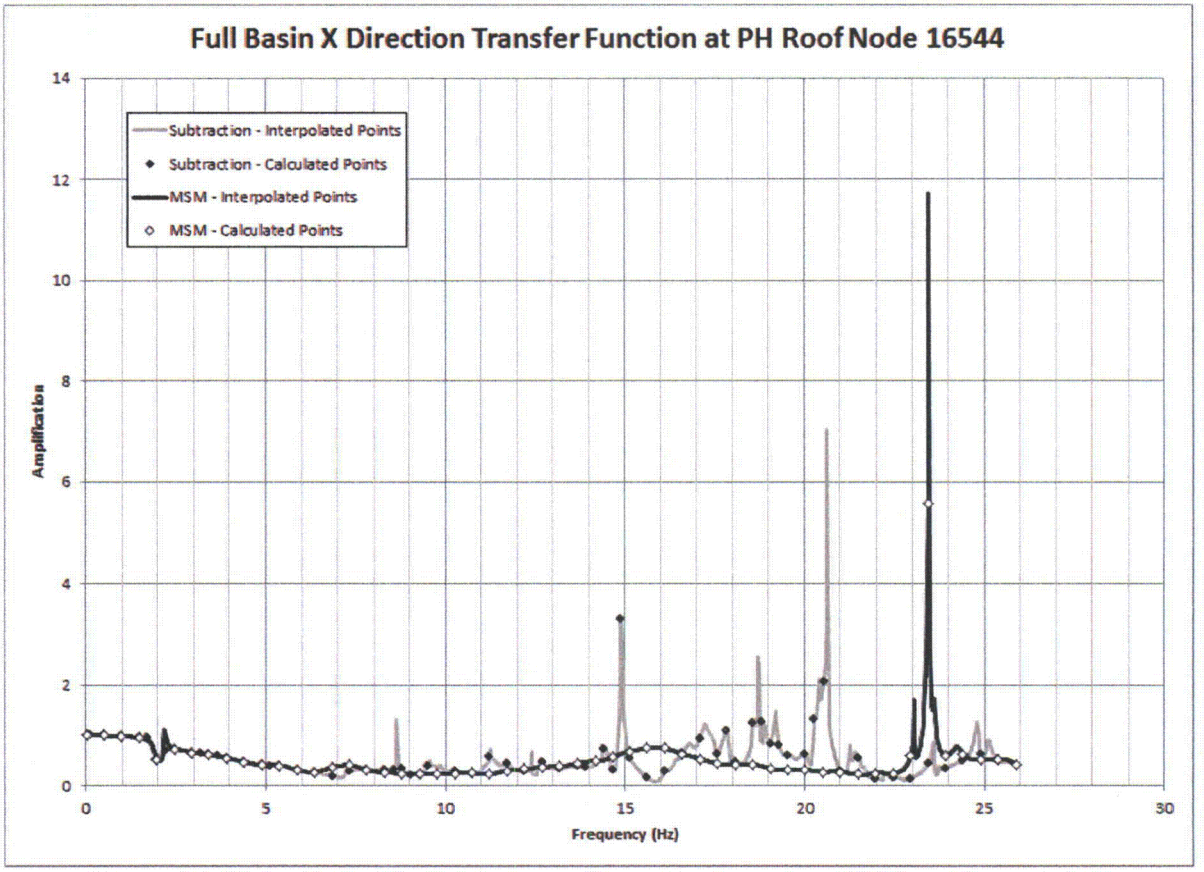


Figure 03.07.01-29 S1.22: X Direction Transfer Function, PH Roof Node 16544 Full Basin

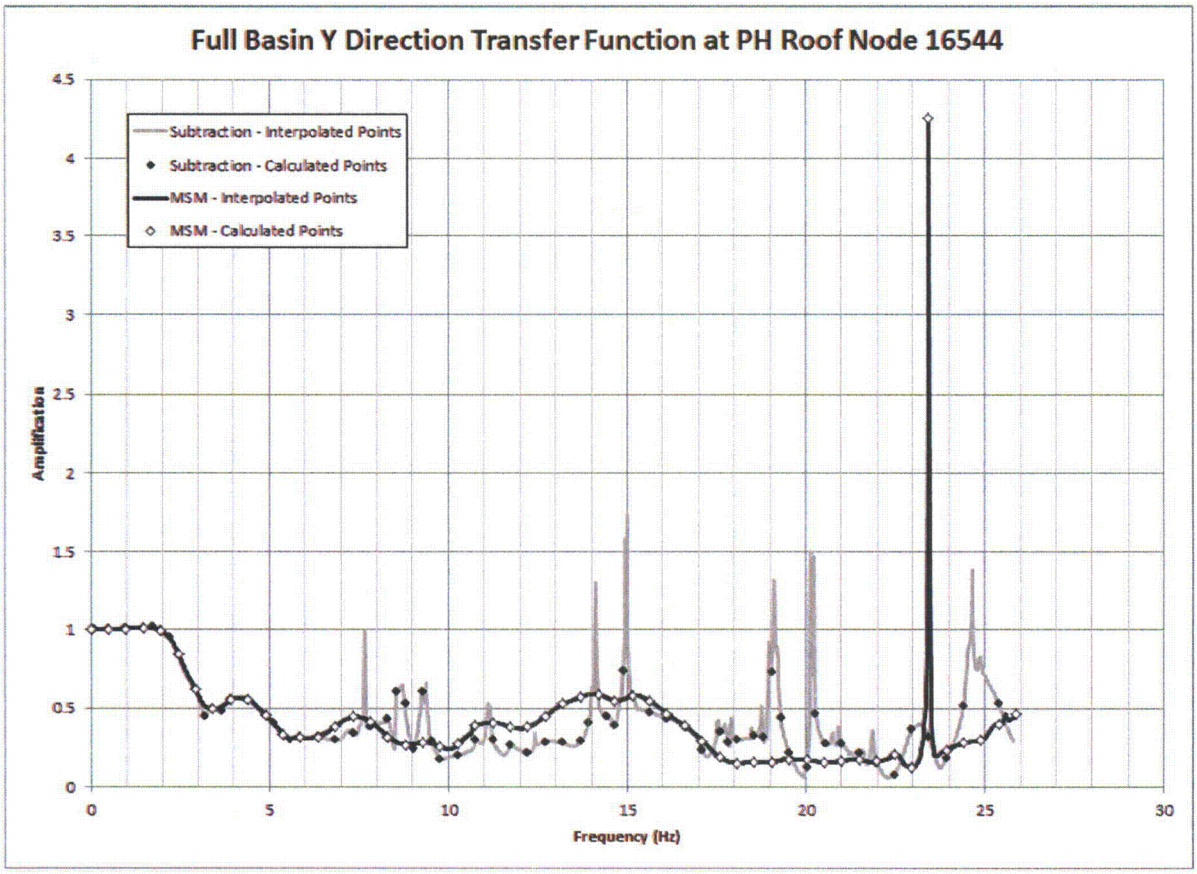


Figure 03.07.01-29 S1.23: Y Direction Transfer Function, PH Roof Node 16544 Full Basin

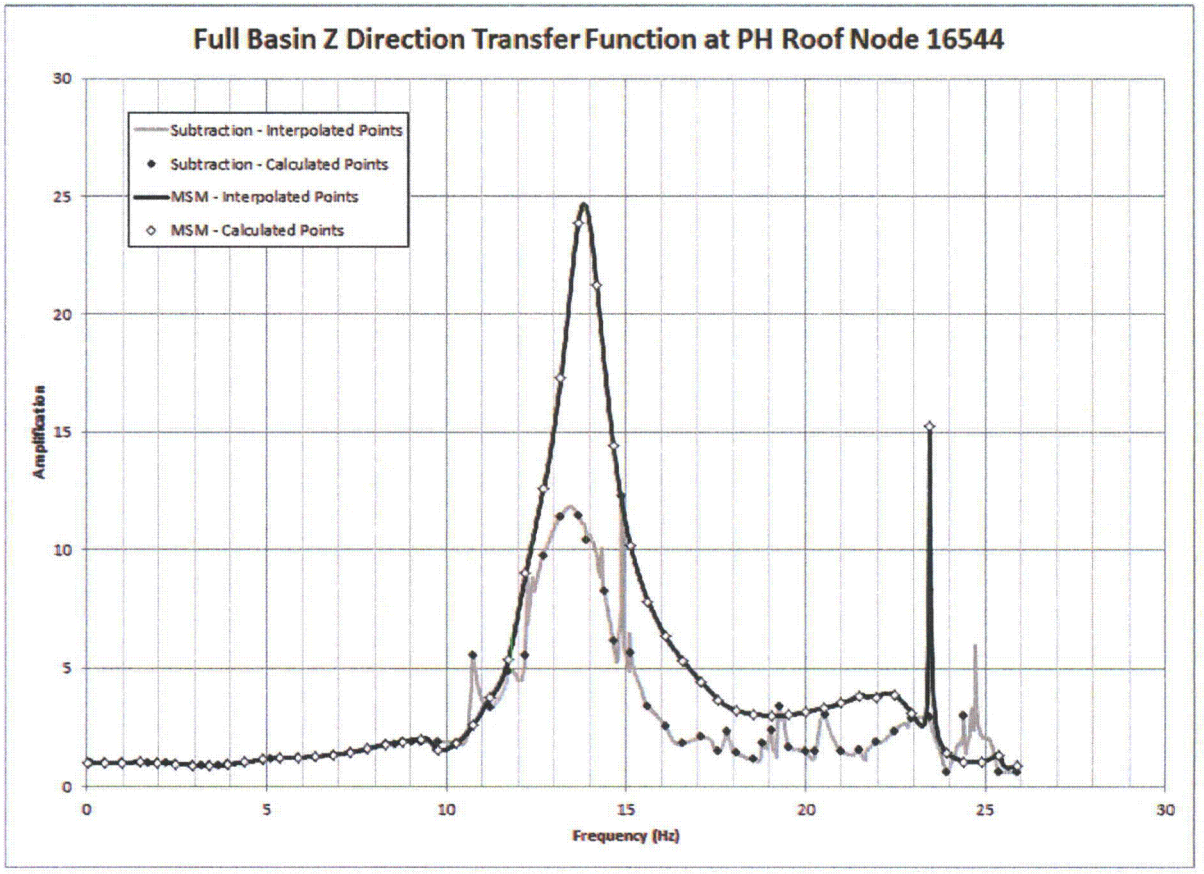


Figure 03.07.01-29 S1.24: Z Direction Transfer Function, PH Roof Node 16544 Full Basin

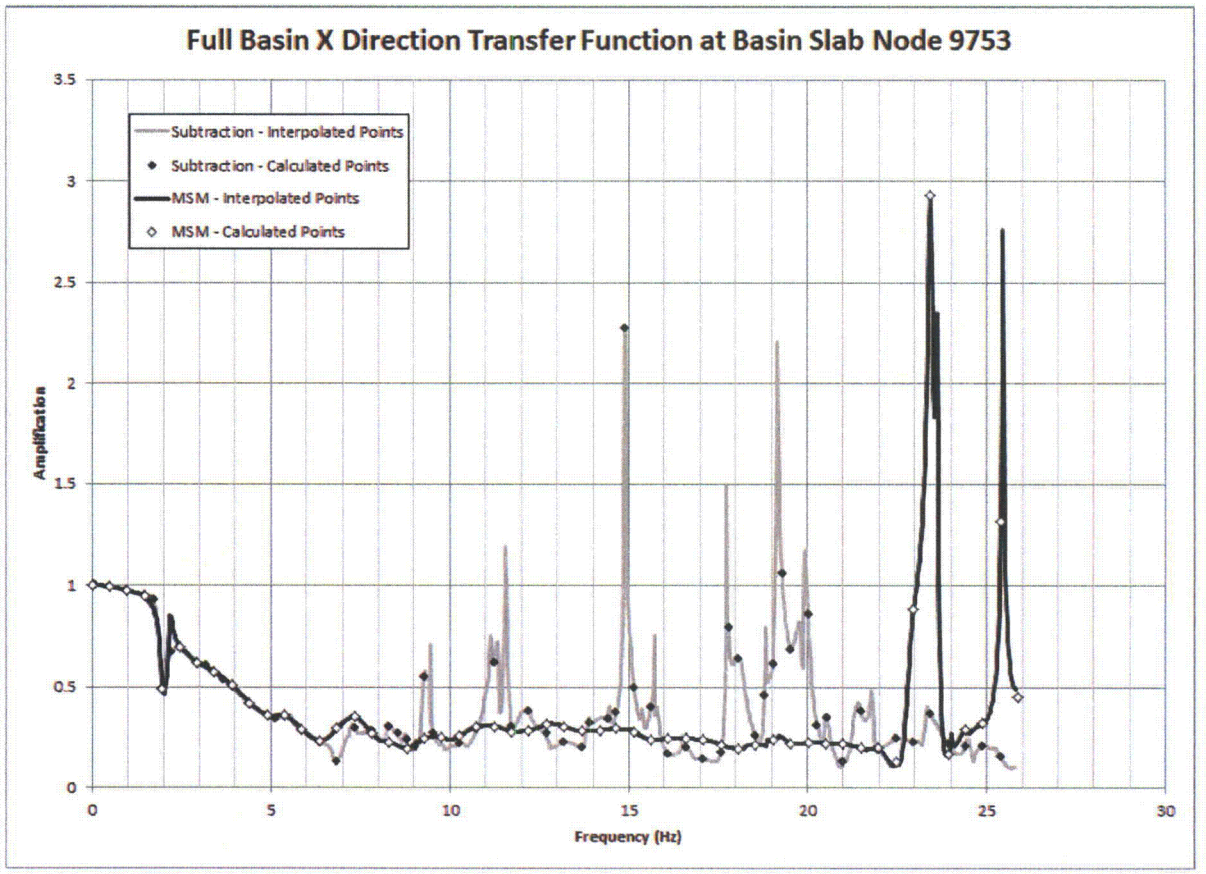


Figure 03.07.01-29 S1.25: X Direction Transfer Function, Basin Slab Node 9753 Full Basin

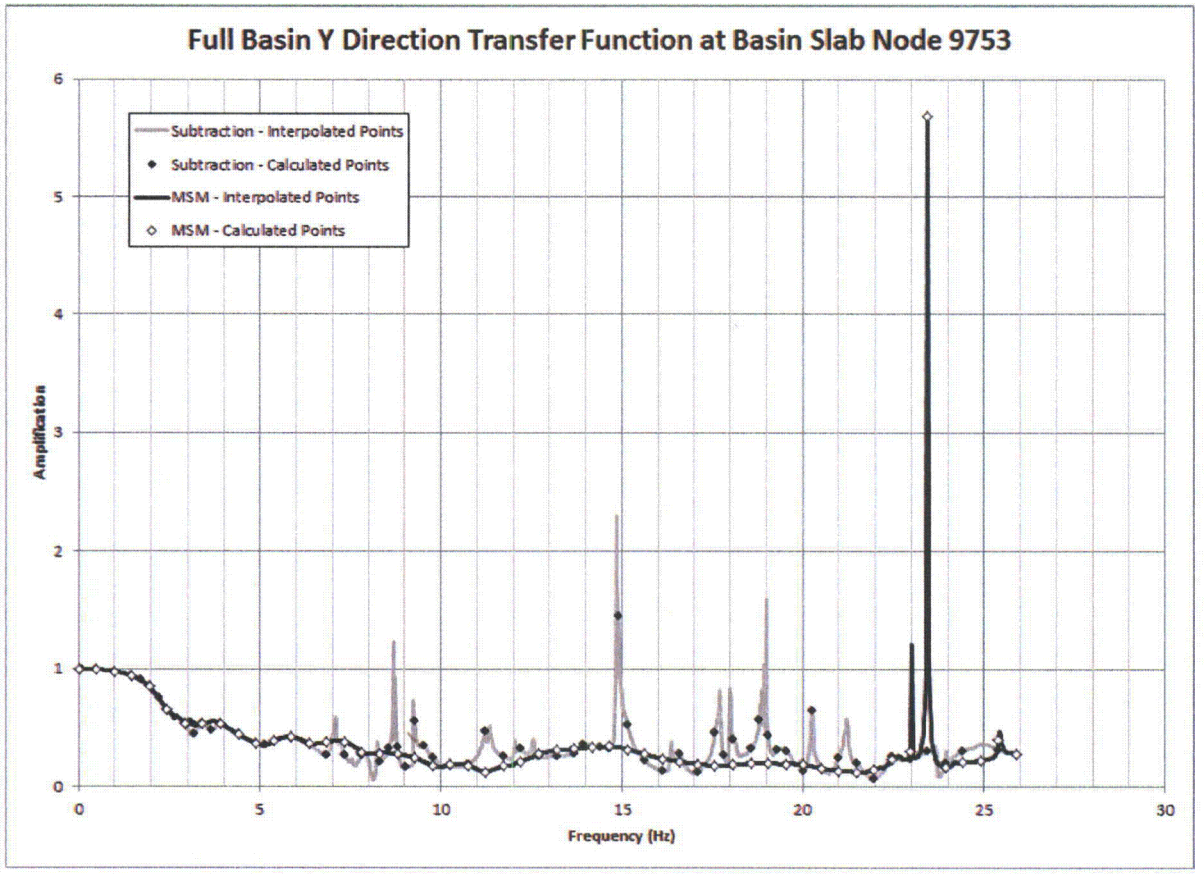


Figure 03.07.01-29 S1.26: Y Direction Transfer Function, Basin Slab Node 9753 Full Basin

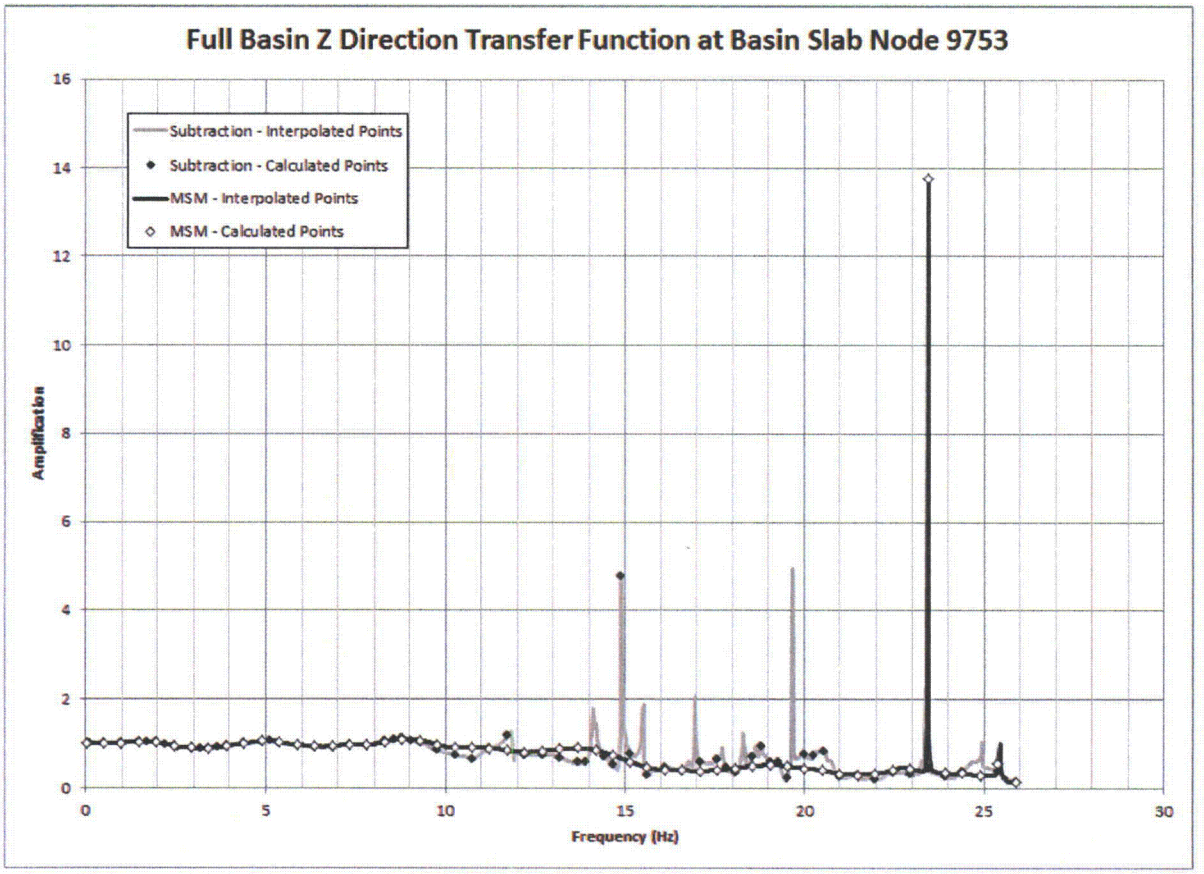


Figure 03.07.01-29 S1.27: Z Direction Transfer Function, Basin Slab Node 9753 Full Basin

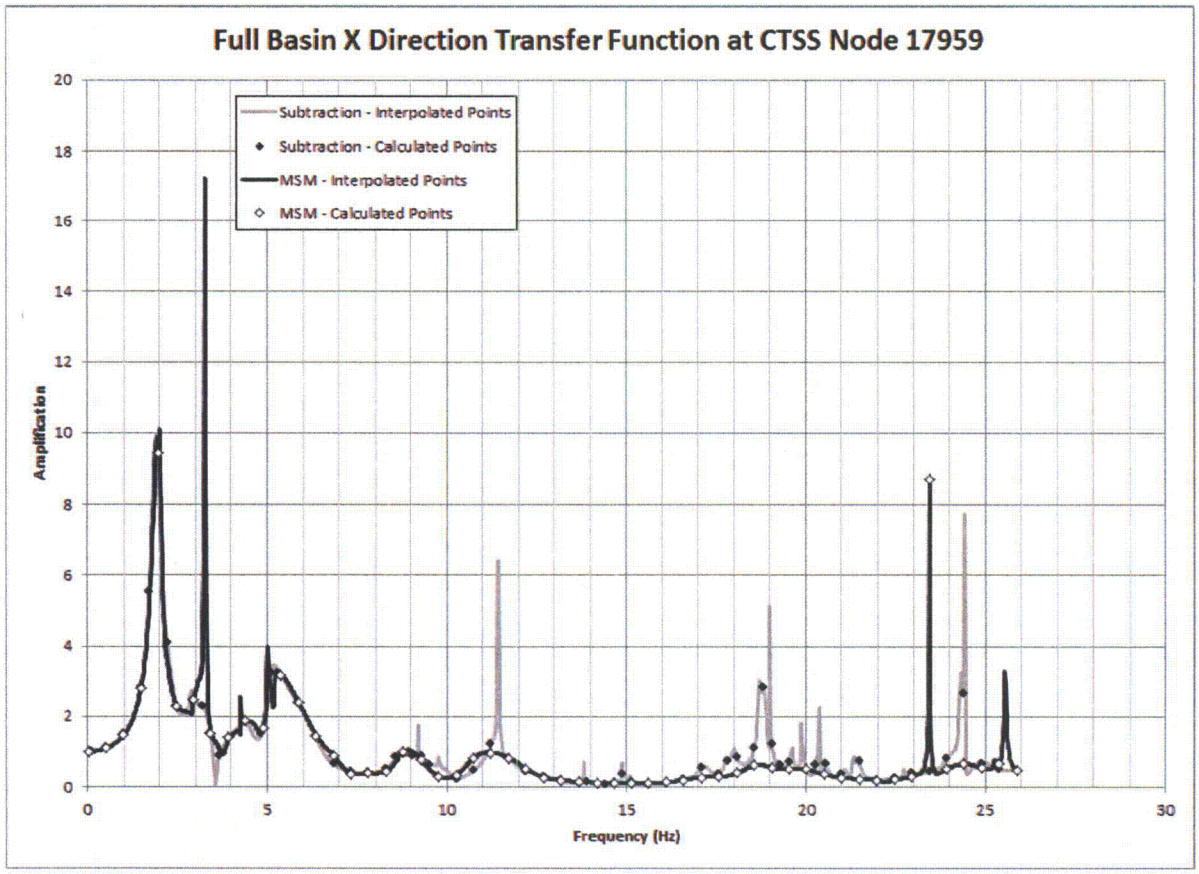


Figure 03.07.01-29 S1.28: X Direction Transfer Function, CTSS Node 17959 Full Basin

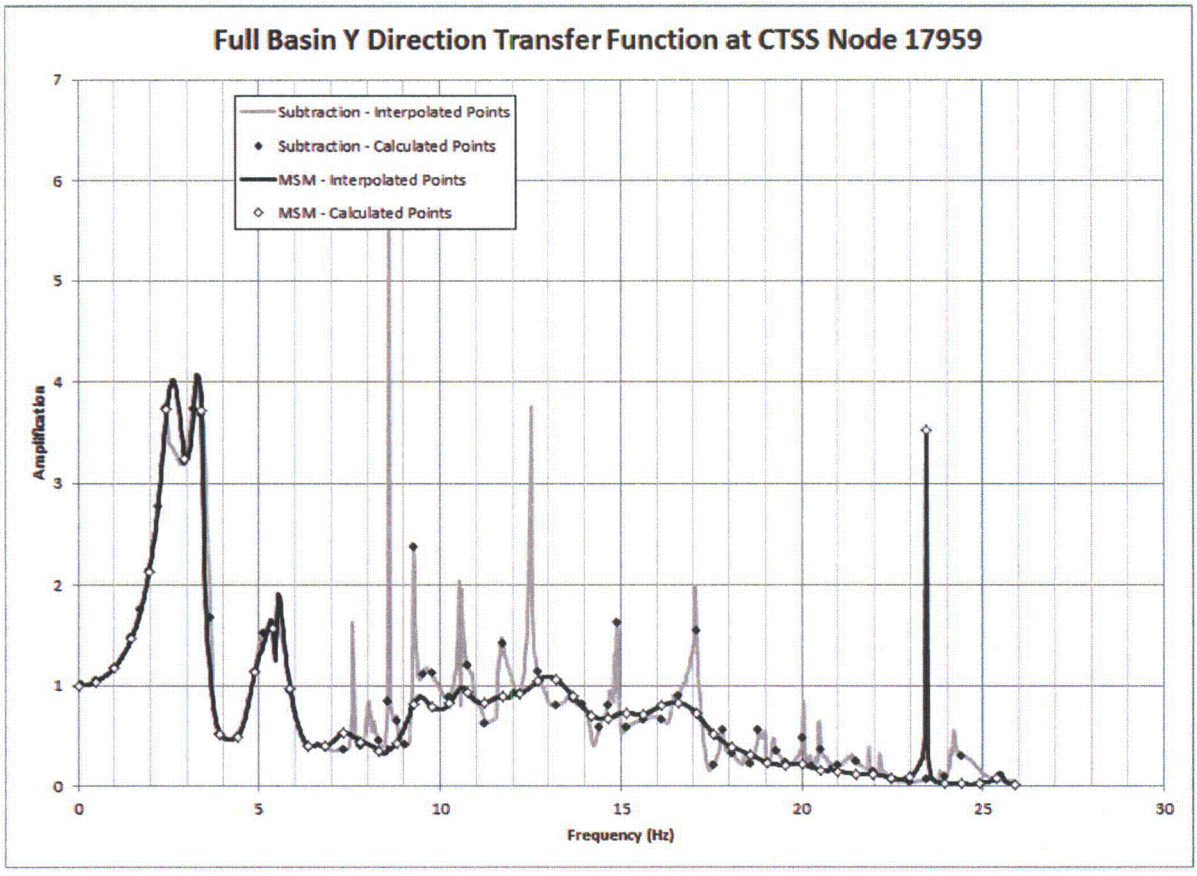


Figure 03.07.01-29 S1.29: Y Direction Transfer Function, CTSS Node 17959 Full Basin

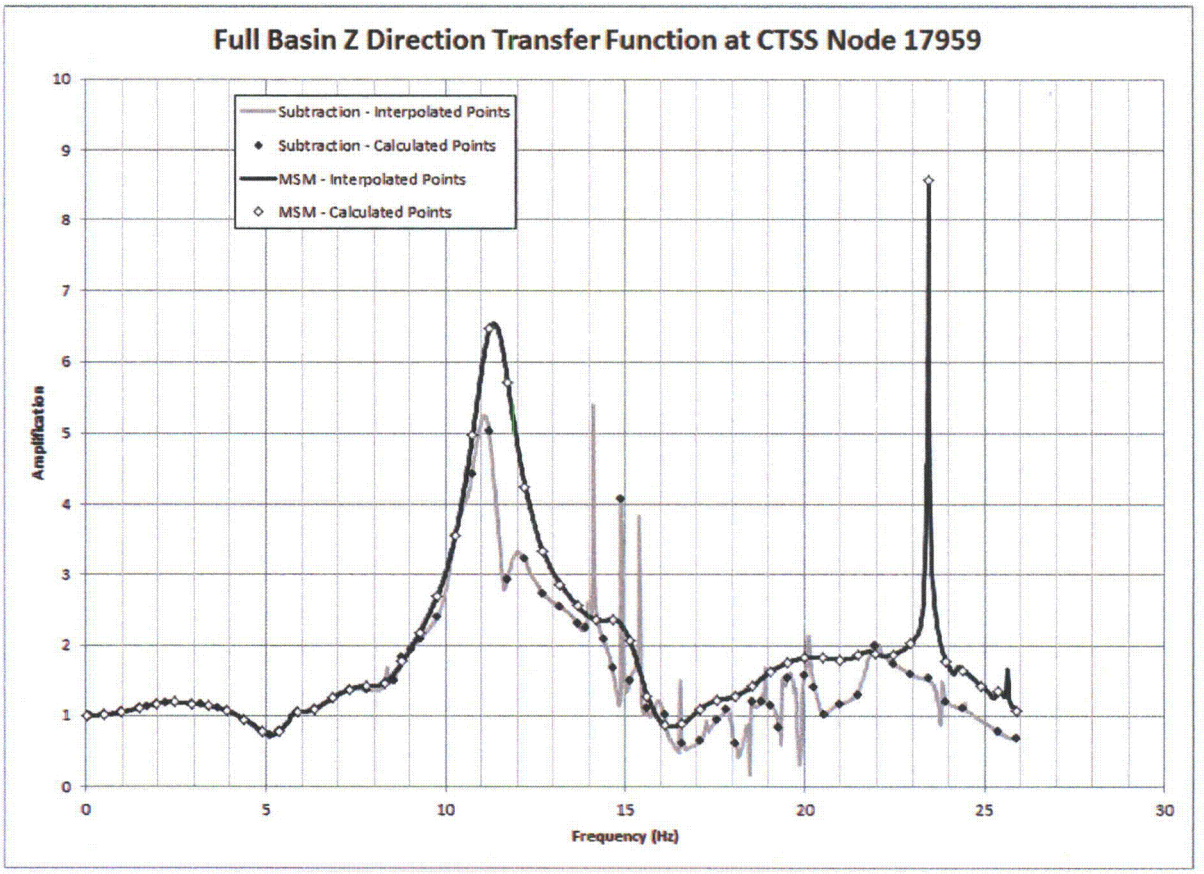


Figure 03.07.01-29 S1.30: Z Direction Transfer Function, CTSS Node 17959 Full Basin

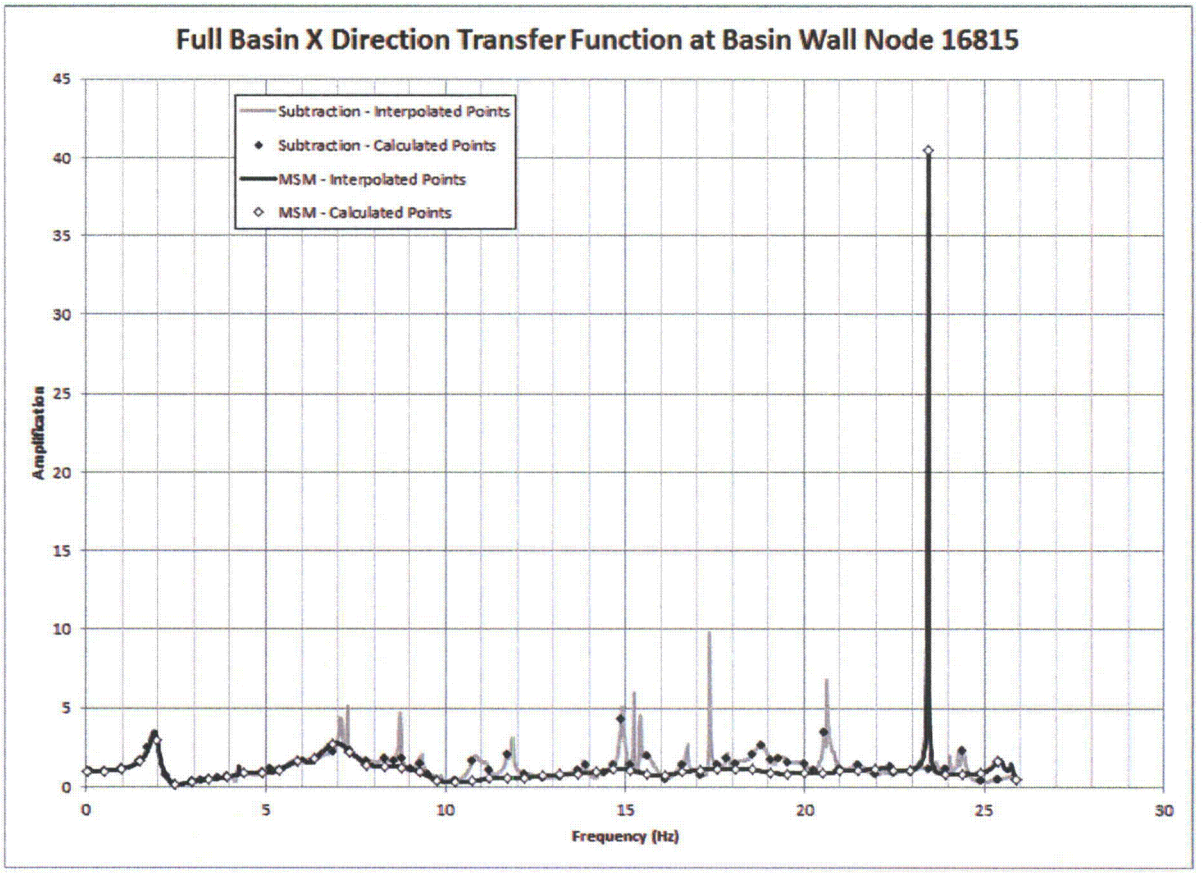


Figure 03.07.01-29 S1.31: X Direction Transfer Function, Basin Wall Node 16815 Full Basin

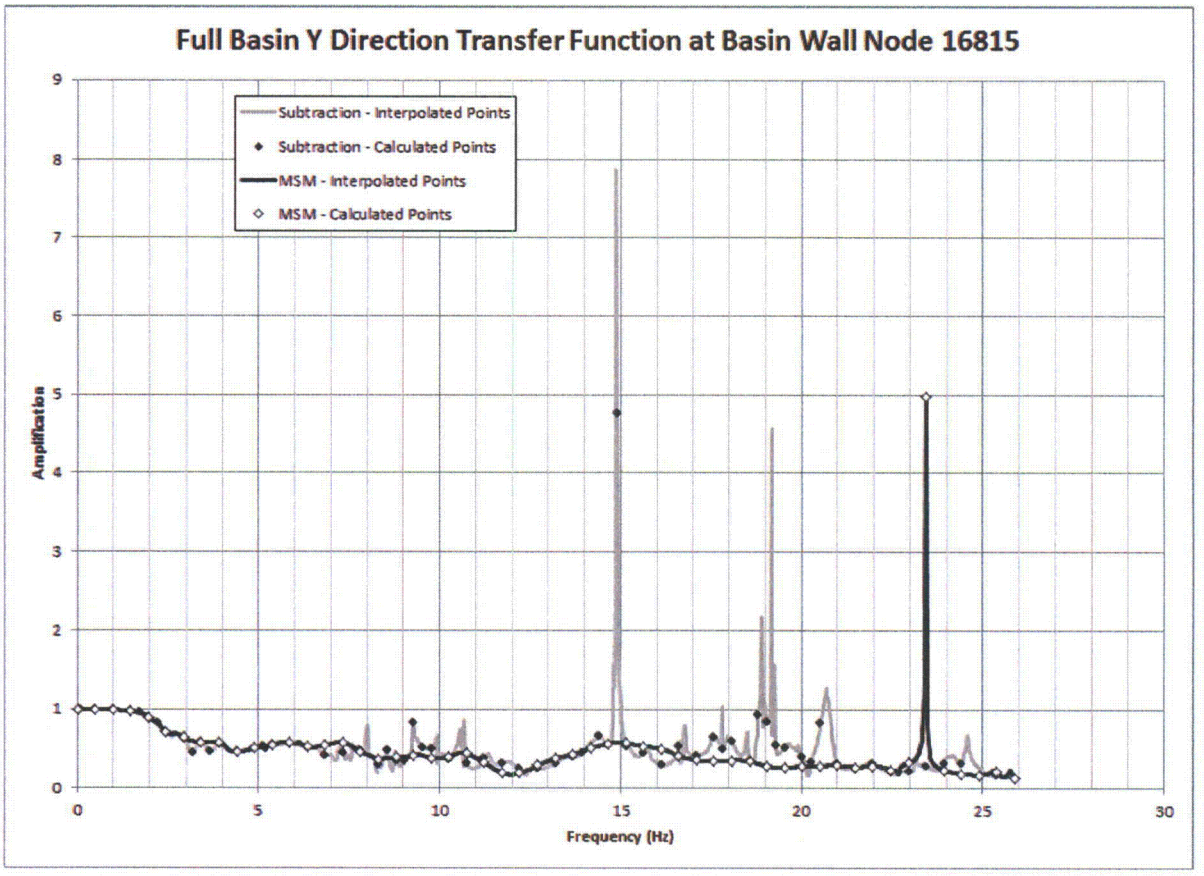


Figure 03.07.01-29 S1.32: Y Direction Transfer Function, Basin Wall Node 16815 Full Basin

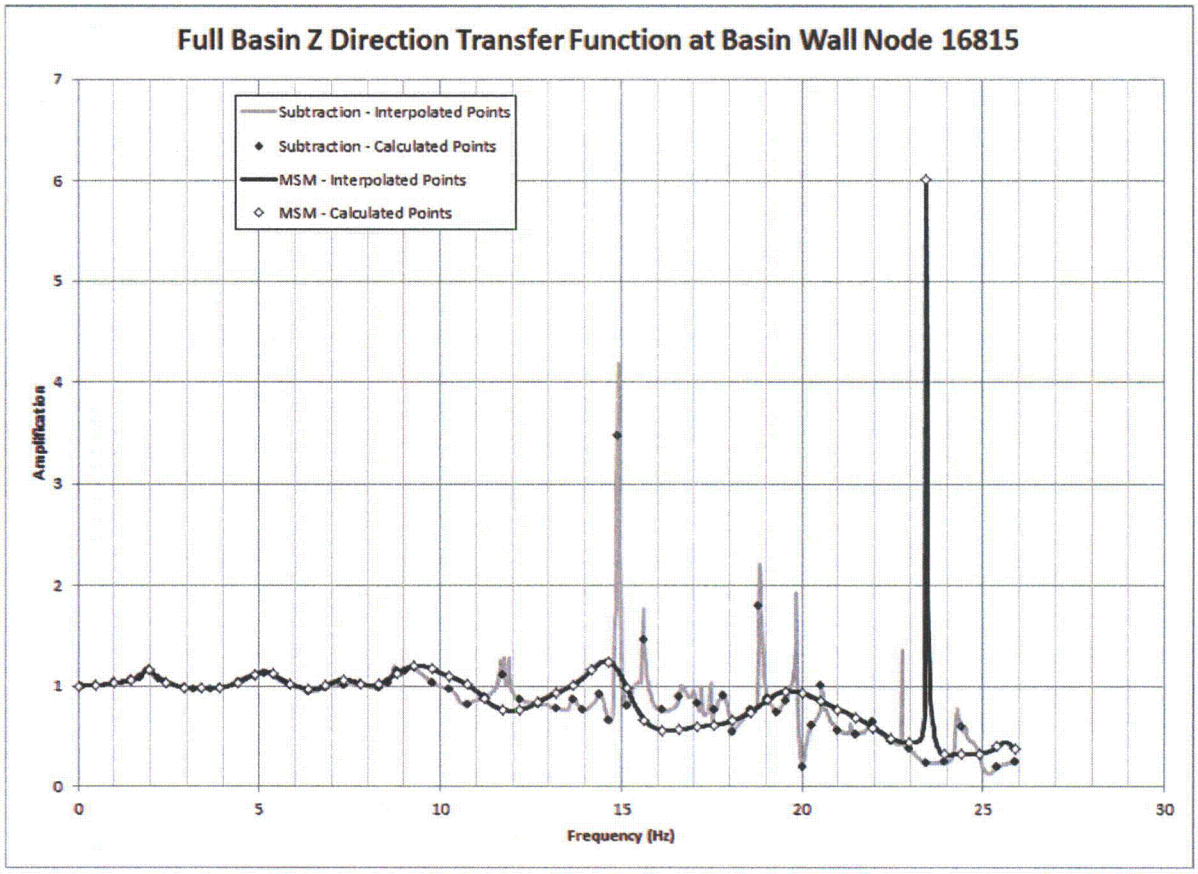


Figure 03.07.01-29 S1.33: Z Direction Transfer Function, Basin Wall Node 16815 Full Basin

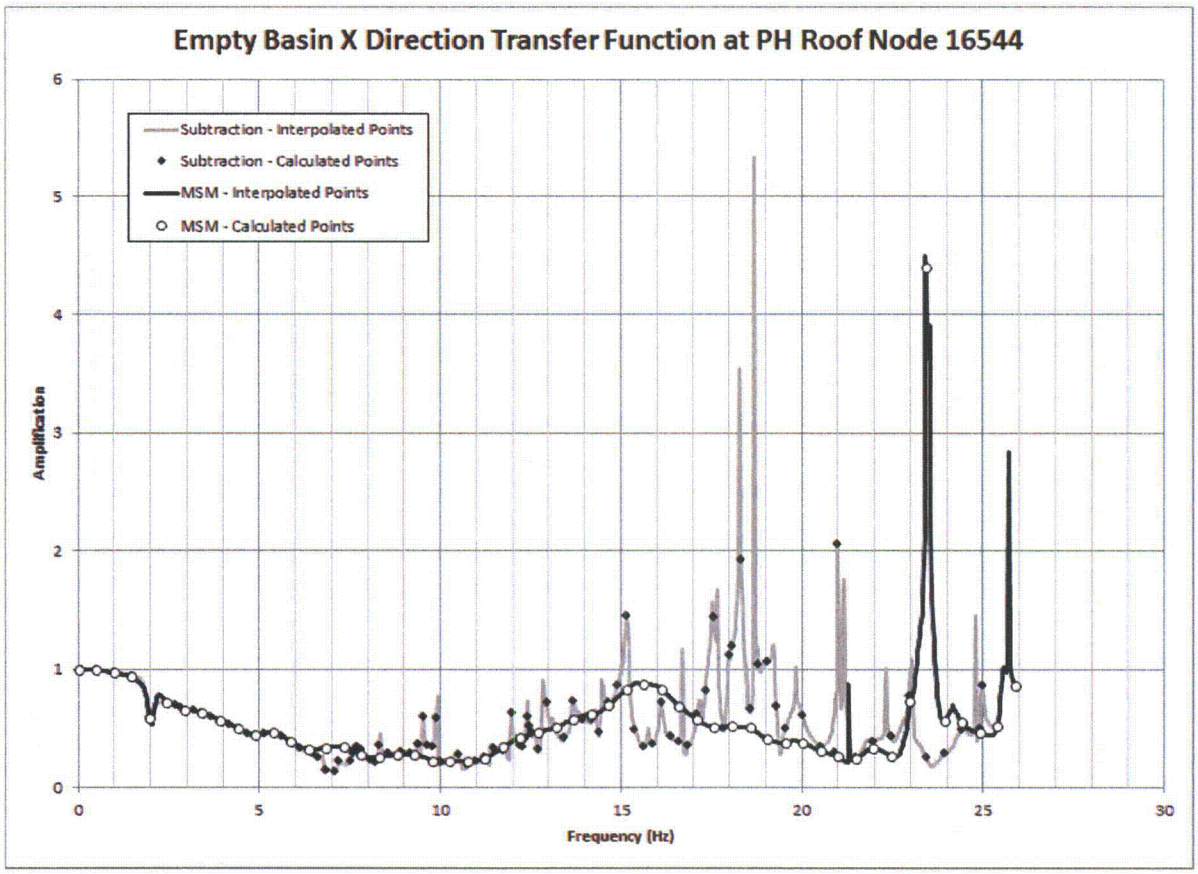


Figure 03.07.01-29 S1.34: X Direction Transfer Function, PH Roof Node 16544 Empty Basin

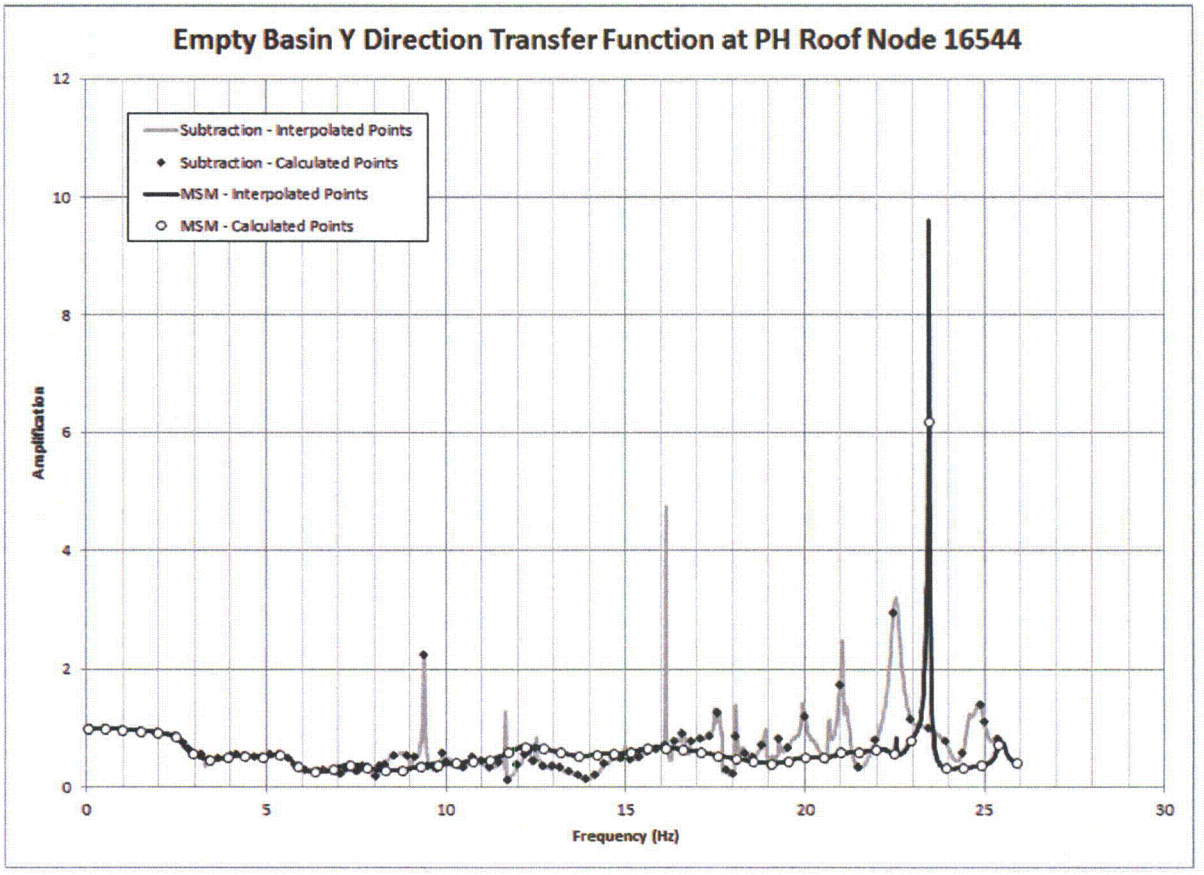


Figure 03.07.01-29 S1.35: Y Direction Transfer Function, PH Roof Node 16544 Empty Basin

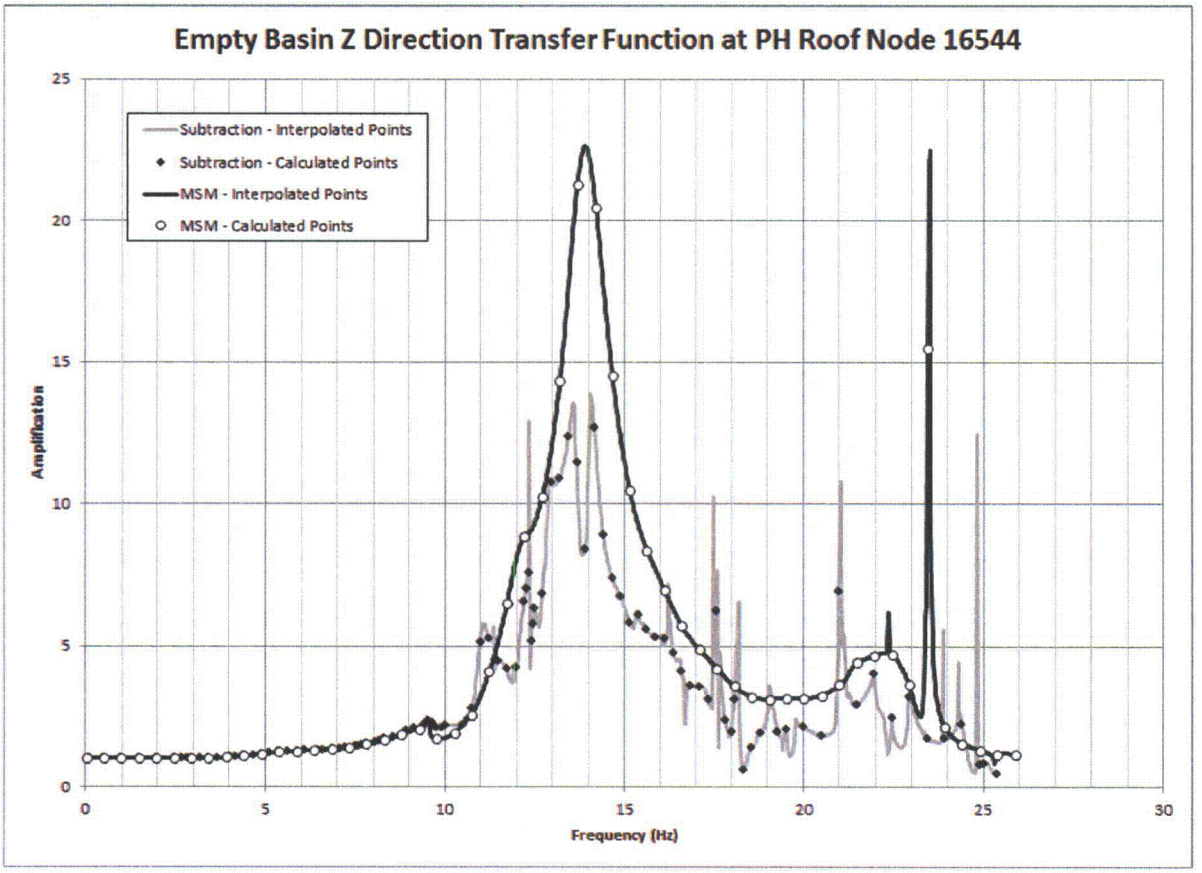


Figure 03.07.01-29 S1.36: Z Direction Transfer Function, PH Roof Node 16544 Empty Basin

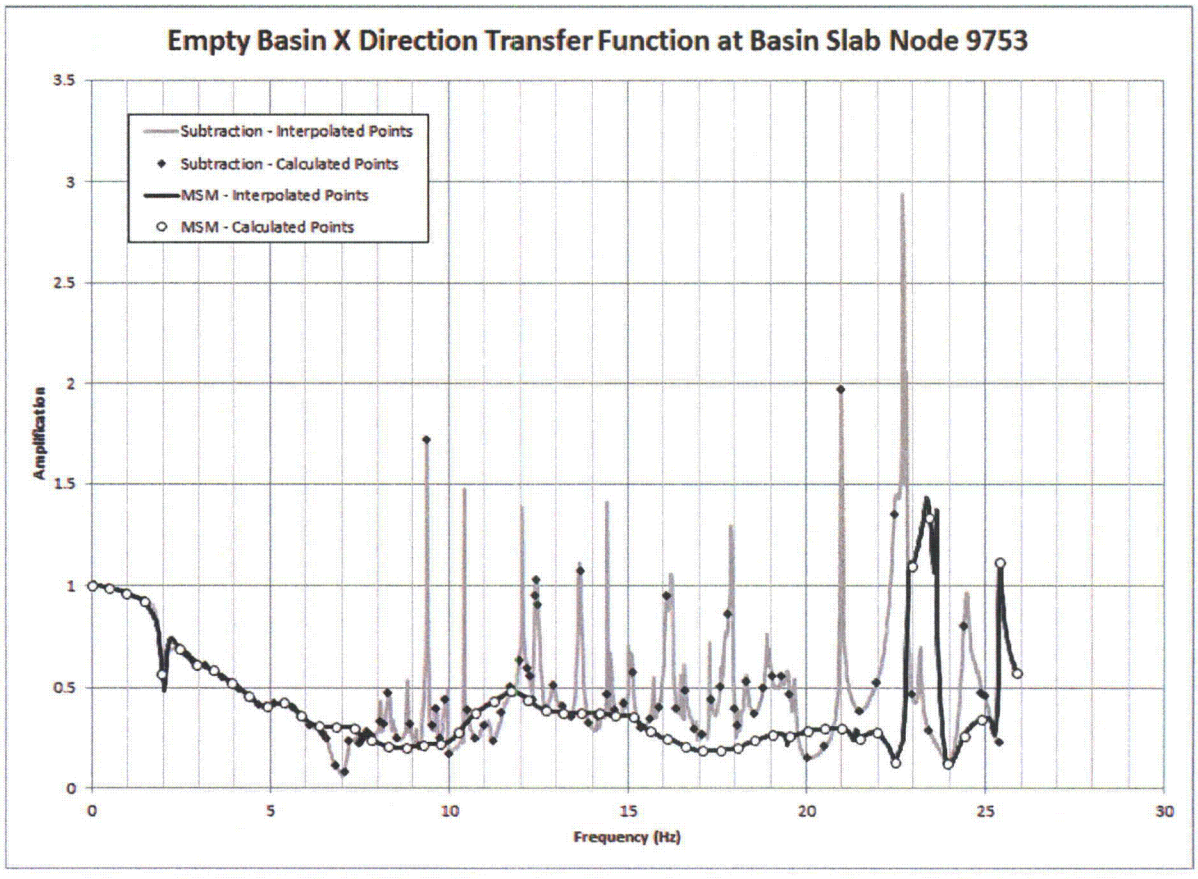


Figure 03.07.01-29 S1.37: X Direction Transfer Function, Basin Slab Node 9753 Empty Basin

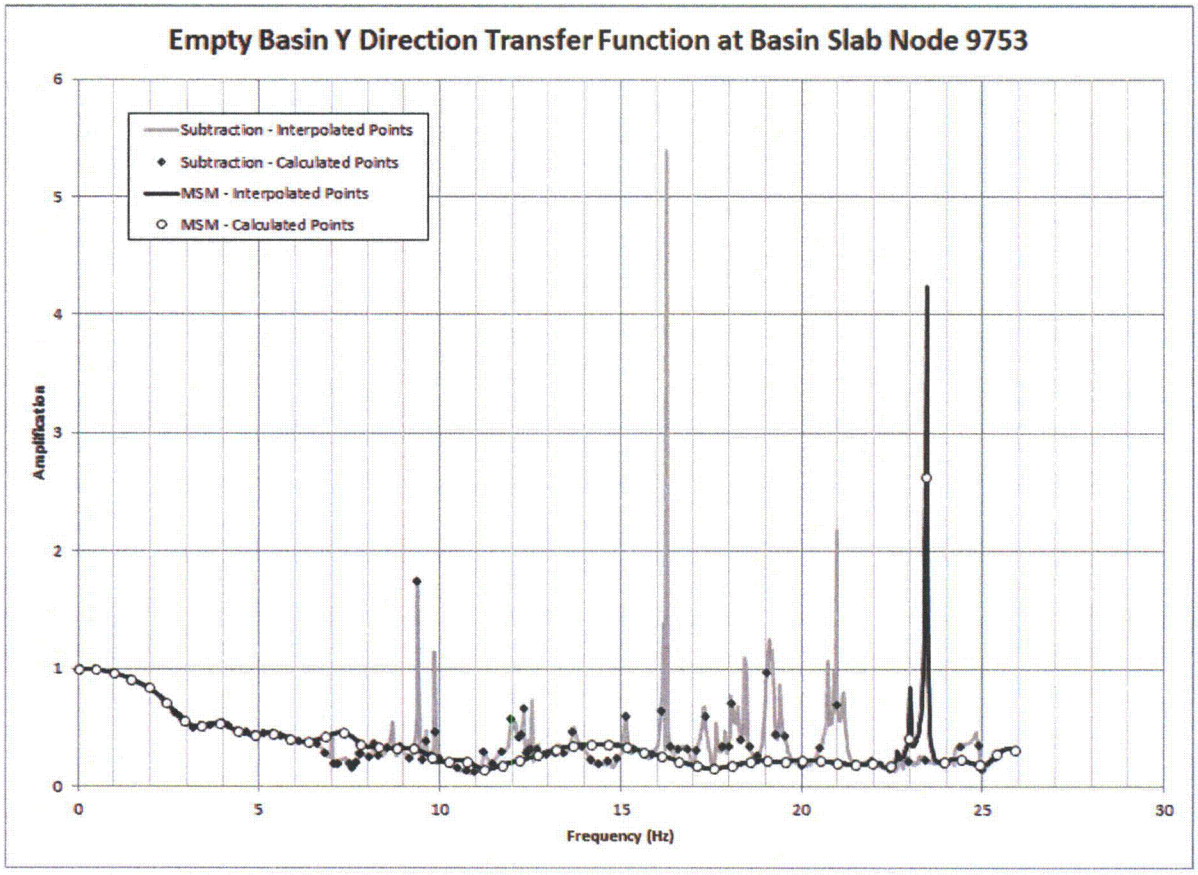


Figure 03.07.01-29 S1.38: Y Direction Transfer Function, Basin Slab Node 9753 Empty Basin

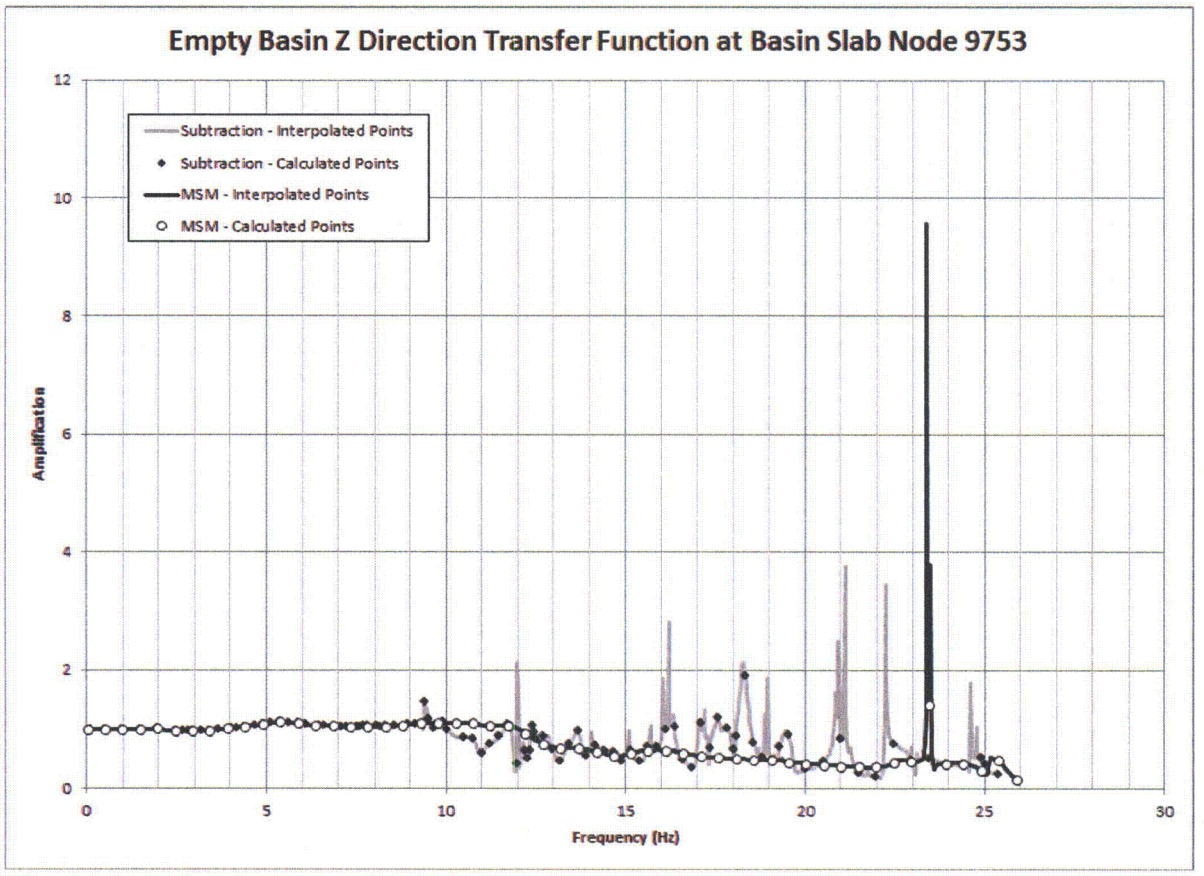


Figure 03.07.01-29 S1.39: Z Direction Transfer Function, Basin Slab Node 9753 Empty Basin

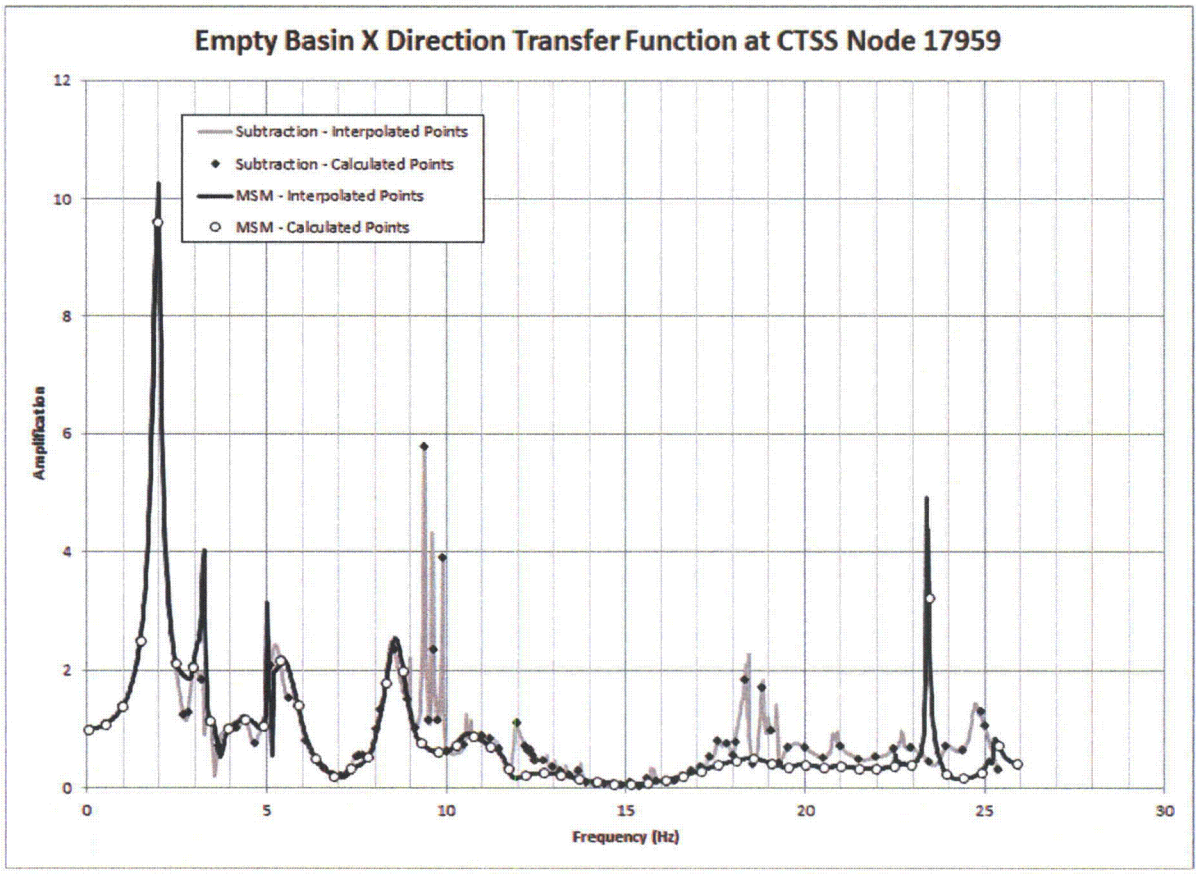


Figure 03.07.01-29 S1.40: X Direction Transfer Function, CTSS Node 17959 Empty Basin

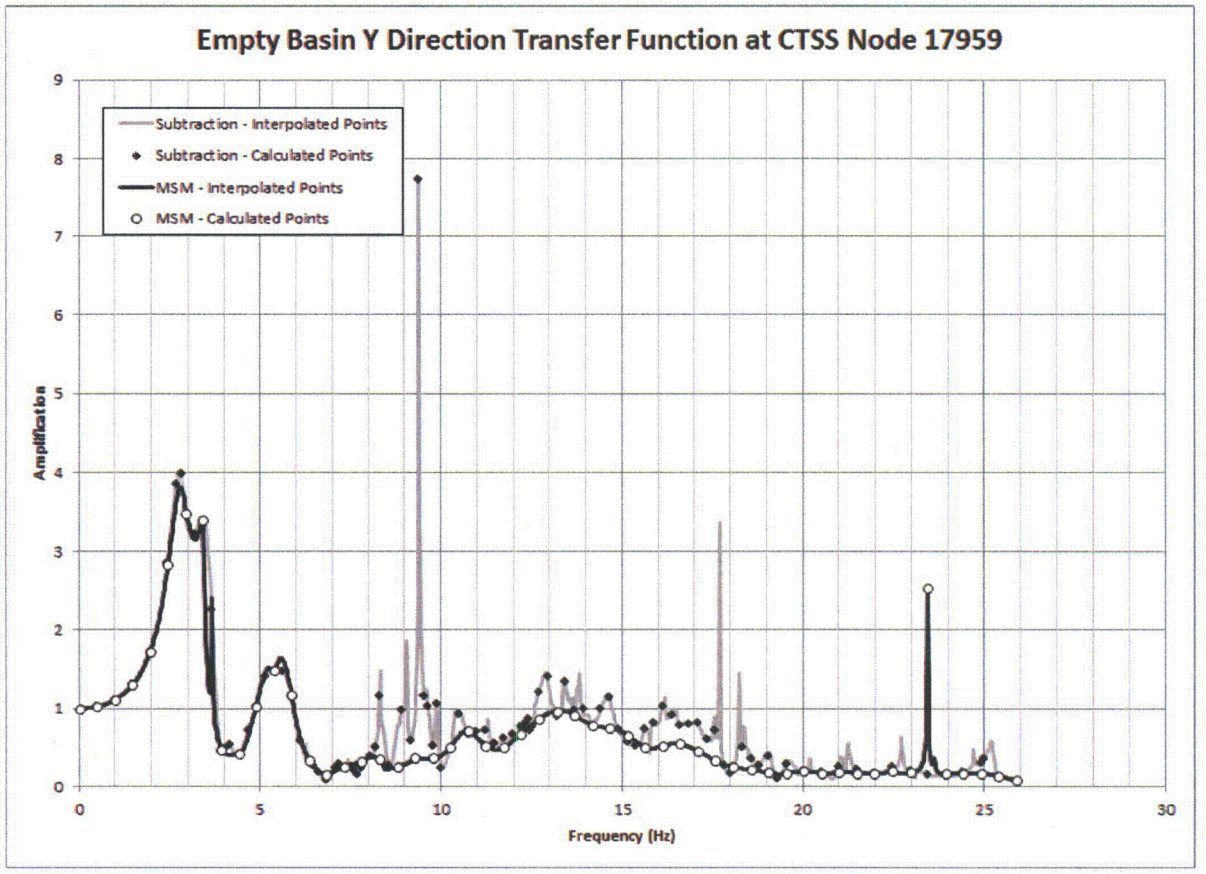


Figure 03.07.01-29 S1.41: Y Direction Transfer Function, CTSS Node 17959 Empty Basin

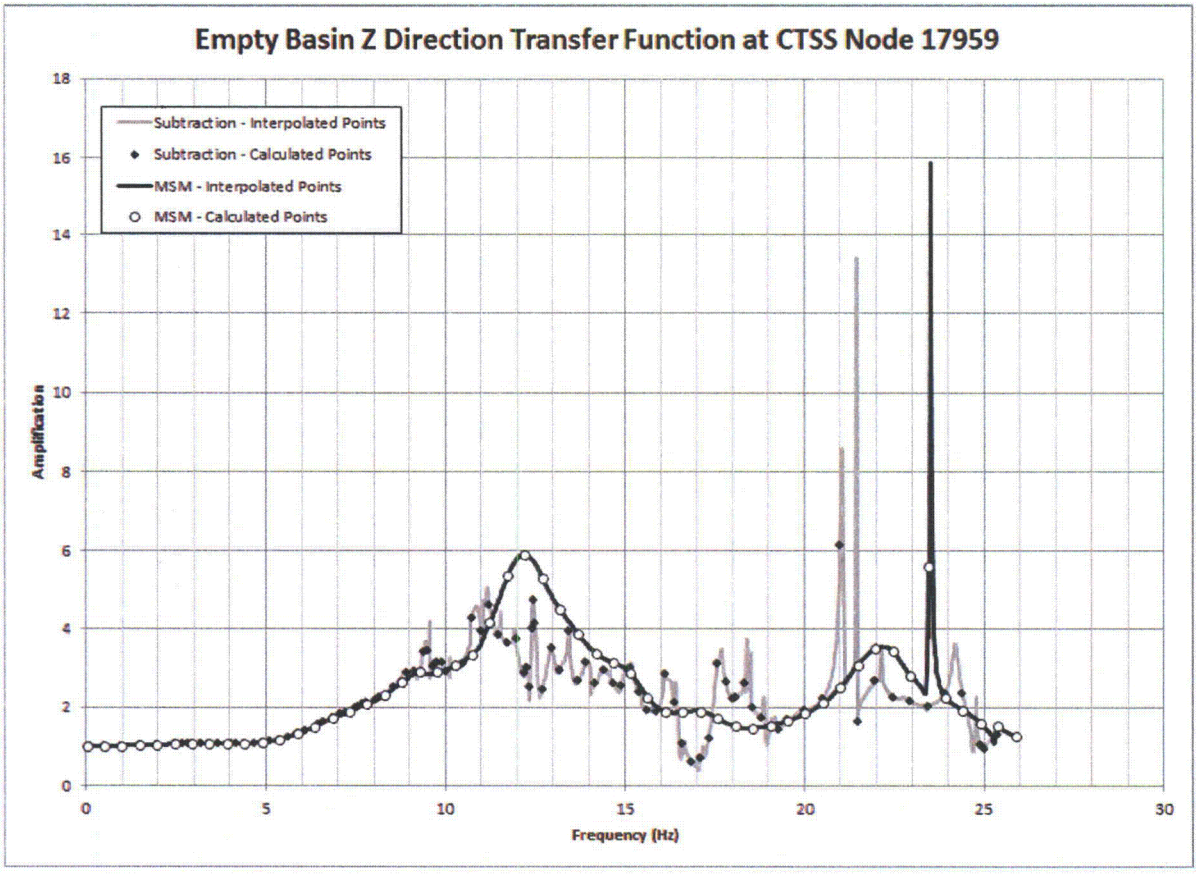


Figure 03.07.01-29 S1.42: Z Direction Transfer Function, CTSS Node 17959 Empty Basin

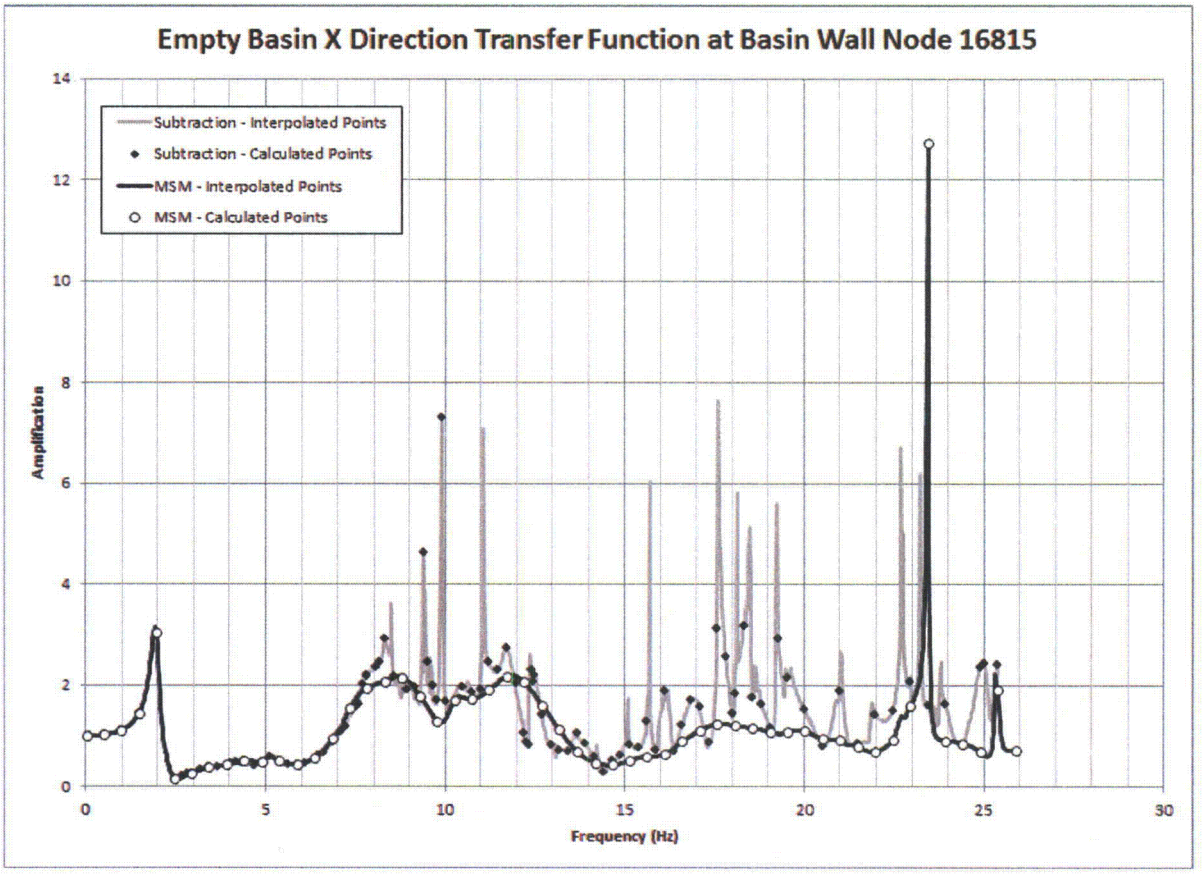


Figure 03.07.01-29 S1.43: X Direction Transfer Function, Basin Wall Node 16815 Empty Basin

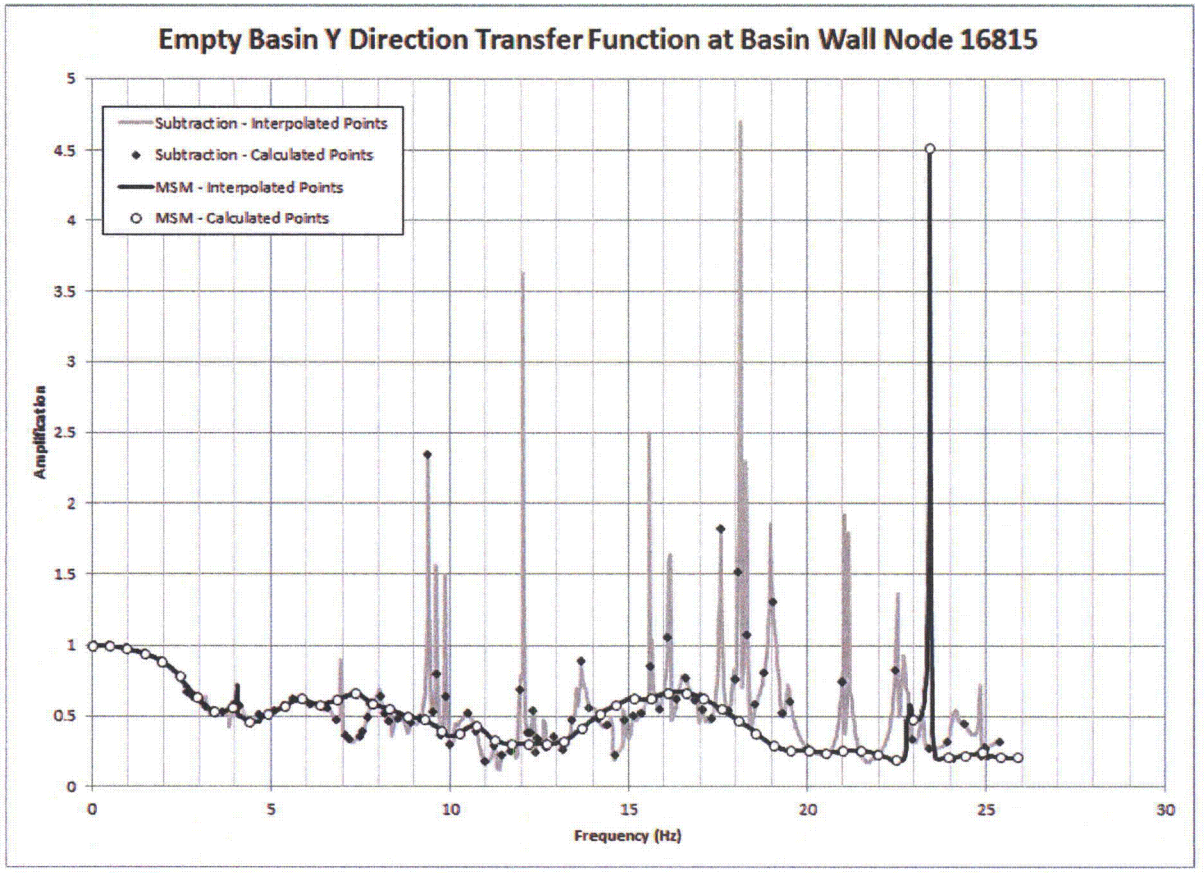


Figure 03.07.01-29 S1.44: Y Direction Transfer Function, Basin Wall Node 16815 Empty Basin

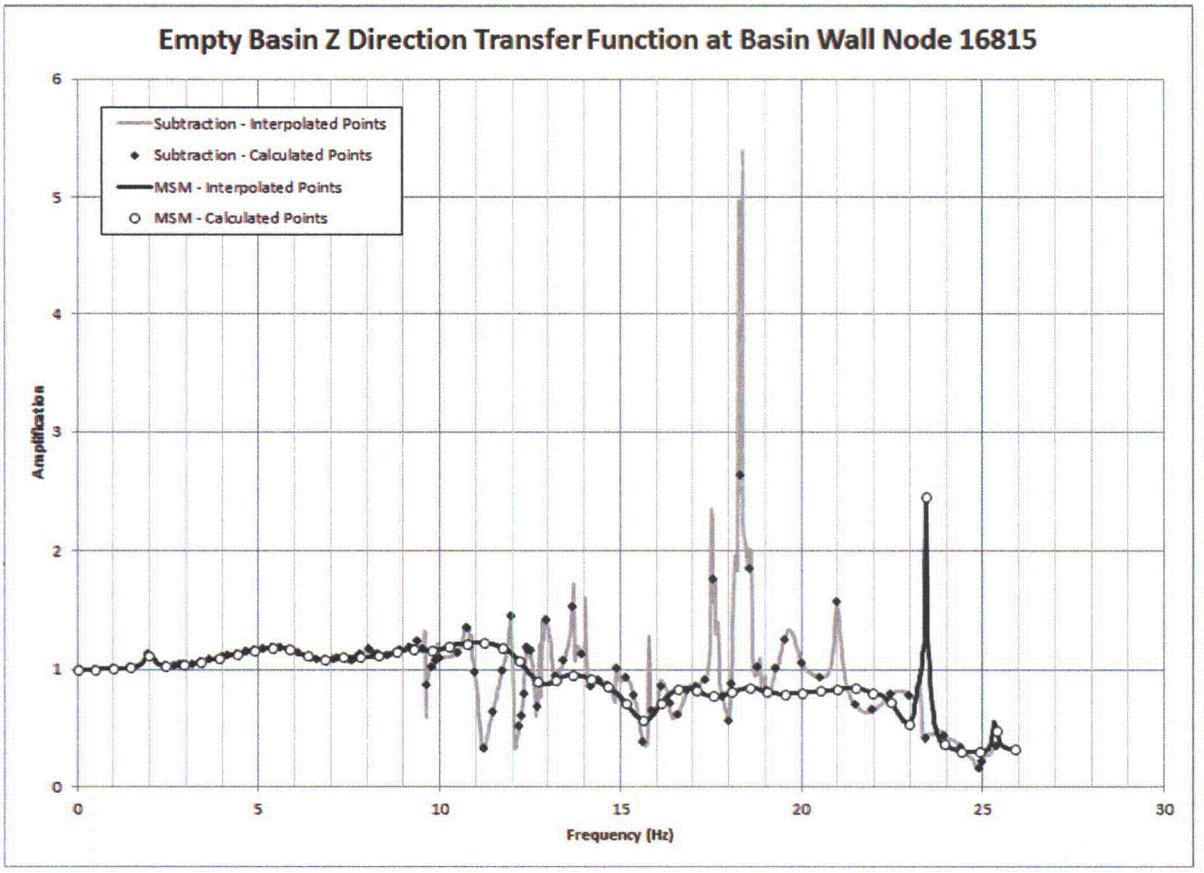
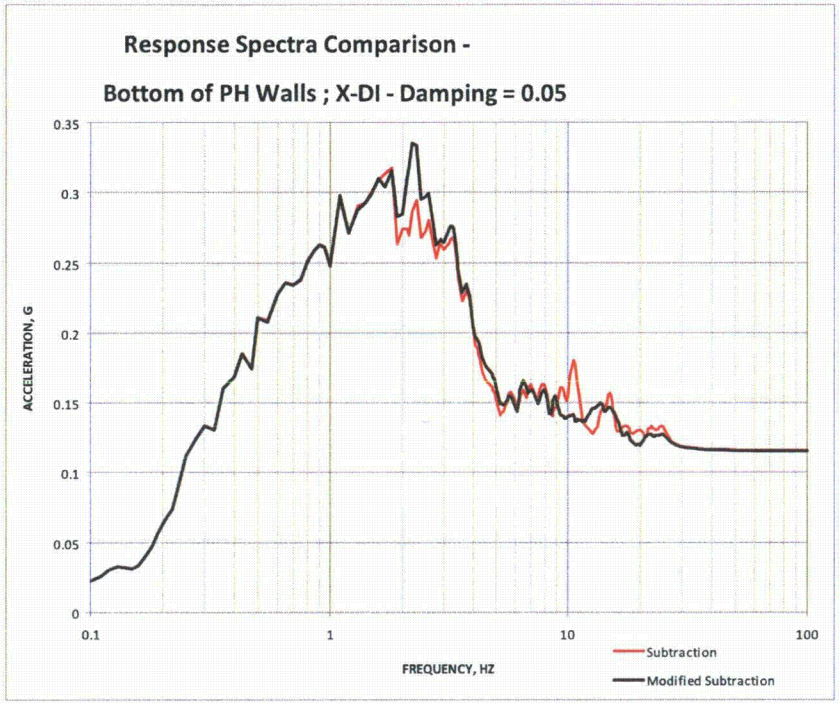
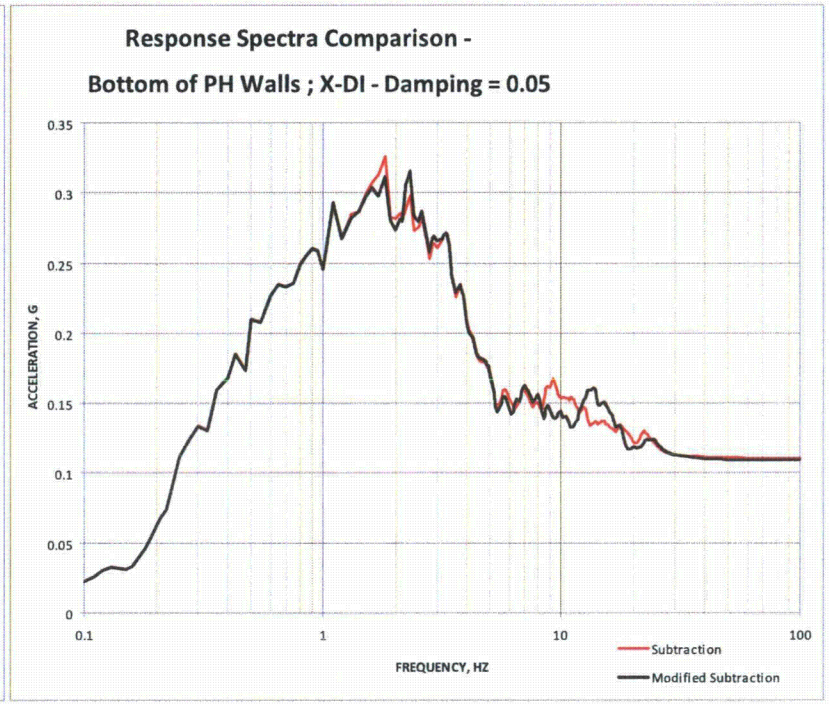


Figure 03.07.01-29 S1.45: Z Direction Transfer Function, Basin Wall Node 16815 Empty Basin

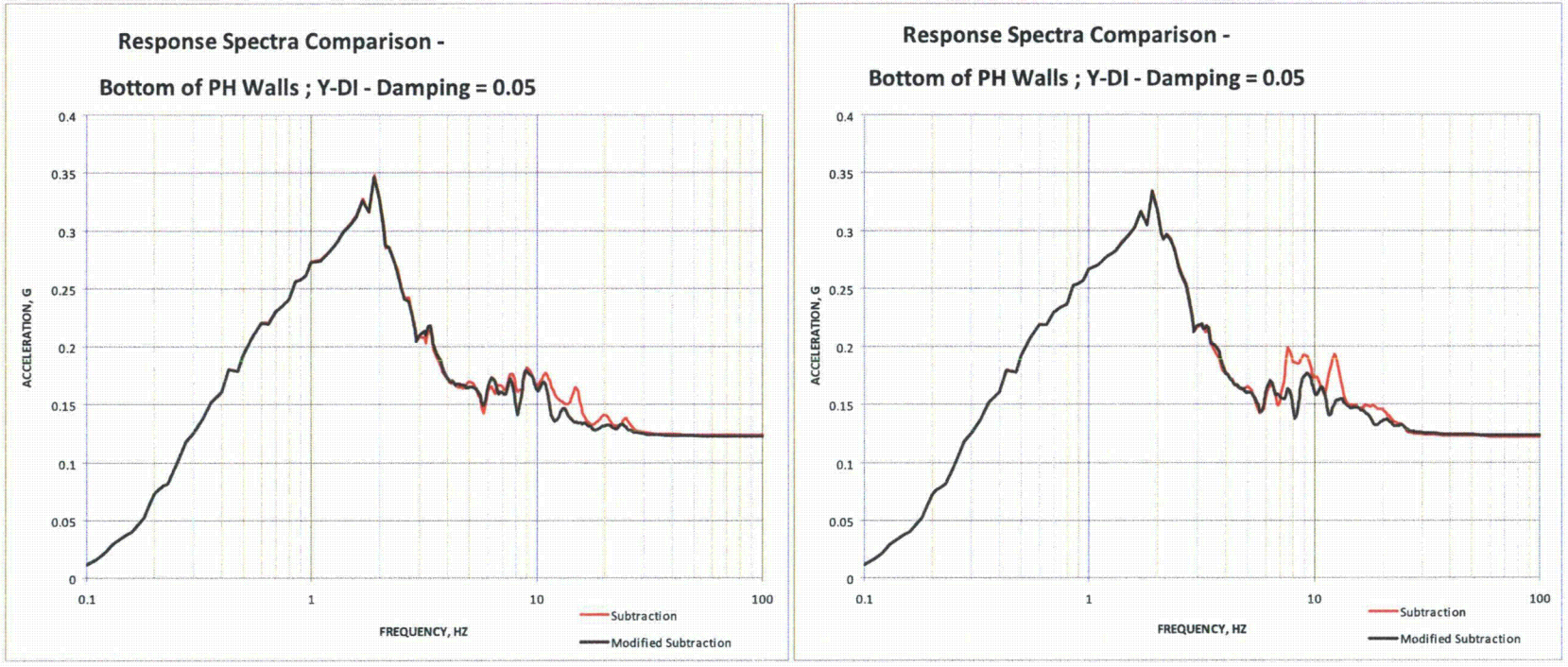


Full Basin



Empty Basin

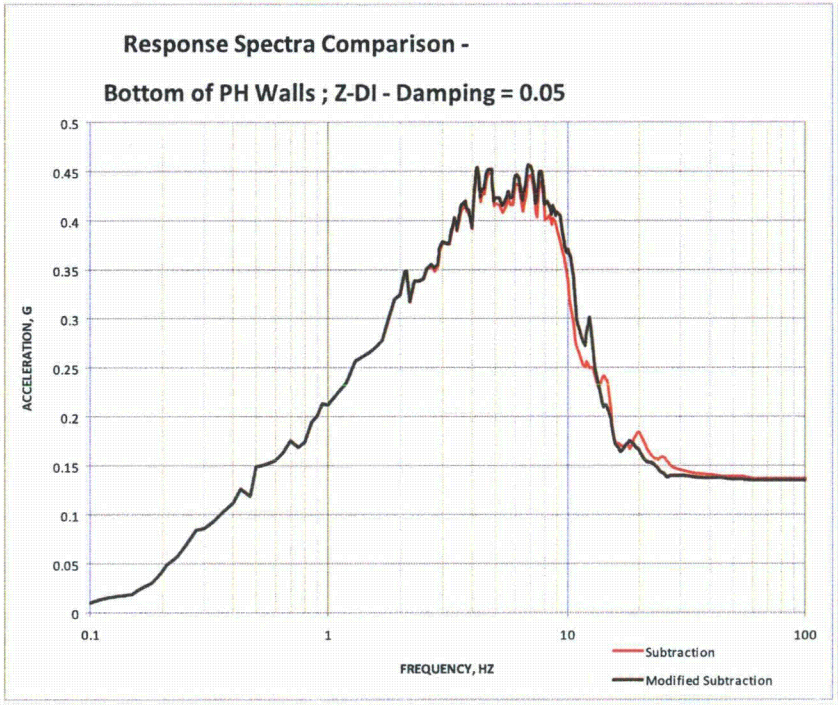
Figure 03.07.01-29 S1.46: Bottom of Pump House Walls (Group 1) - X-Direction



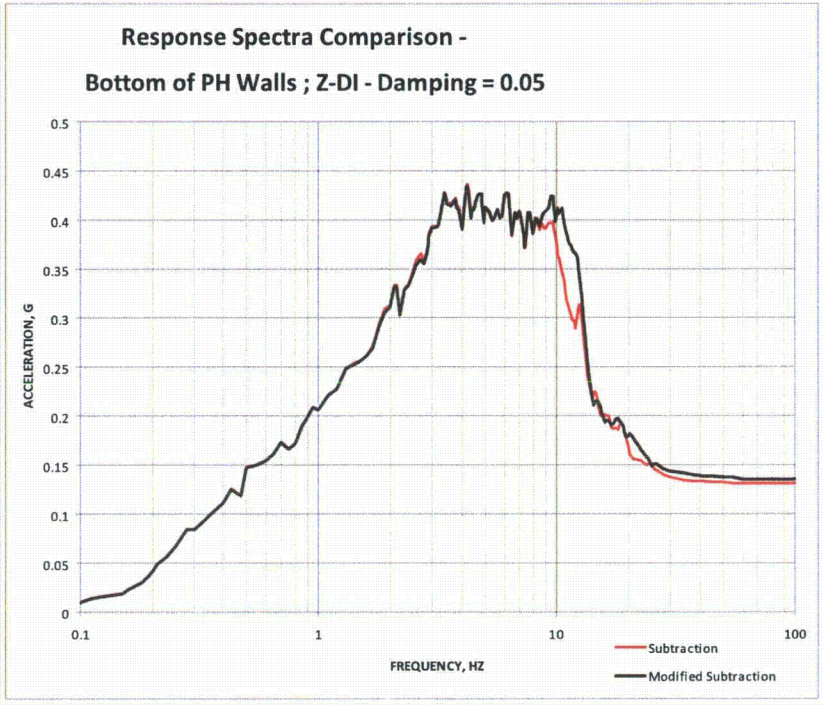
Full Basin

Empty Basin

Figure 03.07.01-29 S1.47: Bottom of Pump House Walls (Group 1) - Y-Direction

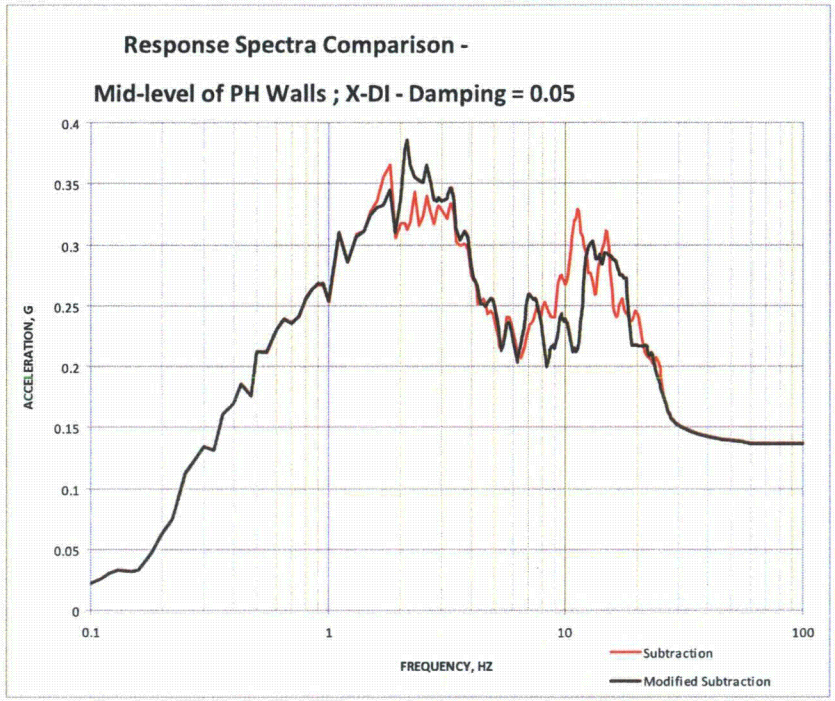


Full Basin

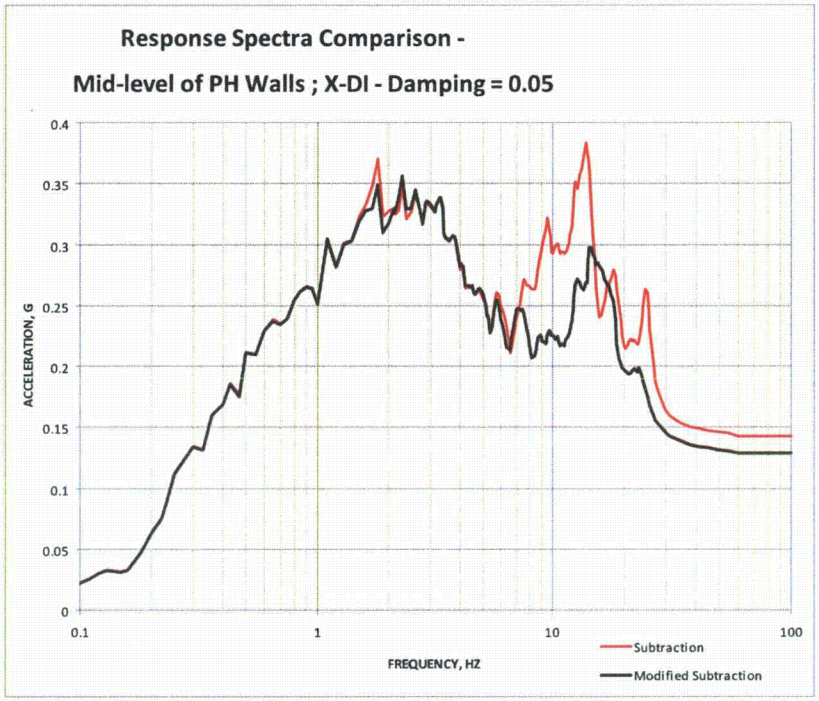


Empty Basin

Figure 03.07.01-29 S1.48: Bottom of Pump House Walls (Group 1) - Z-Direction

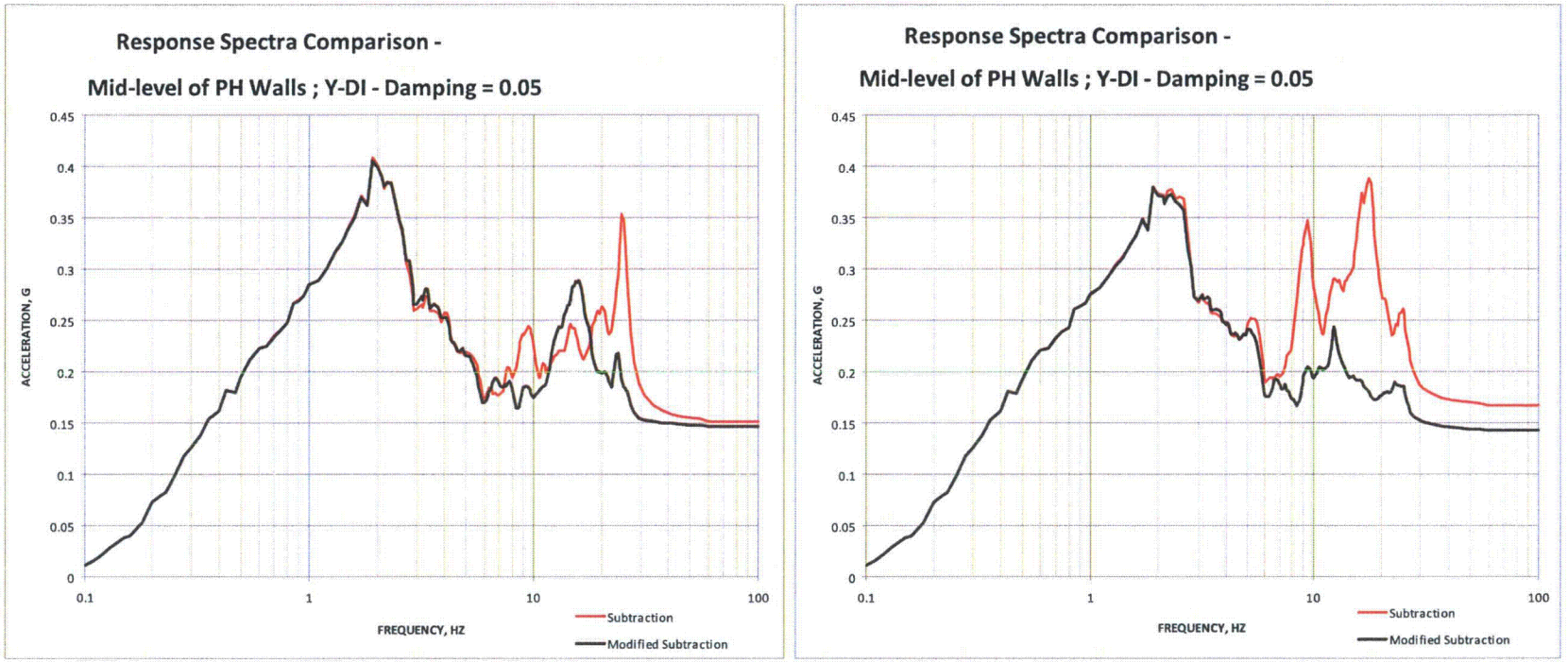


Full Basin



Empty Basin

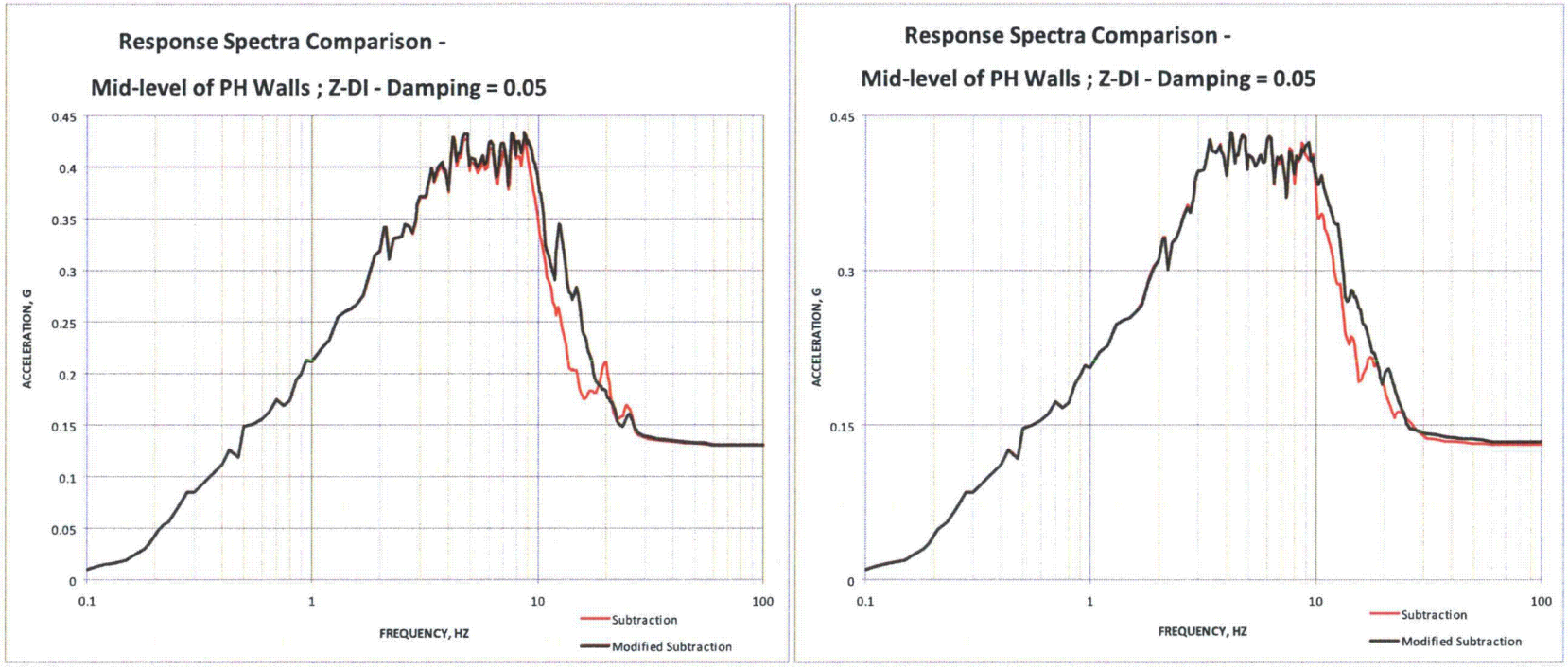
Figure 03.07.01-29 S1.49: Mid-Level Pump House Walls (Group 2) - X-Direction



Full Basin

Empty Basin

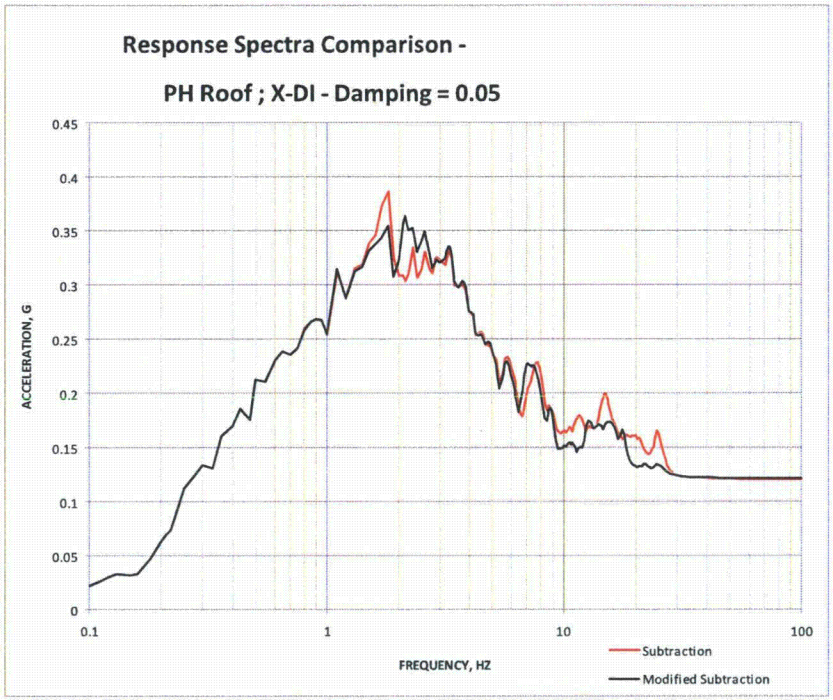
Figure 03.07.01-29 S1.50: Mid-Level Pump House Walls (Group 2) - Y-Direction



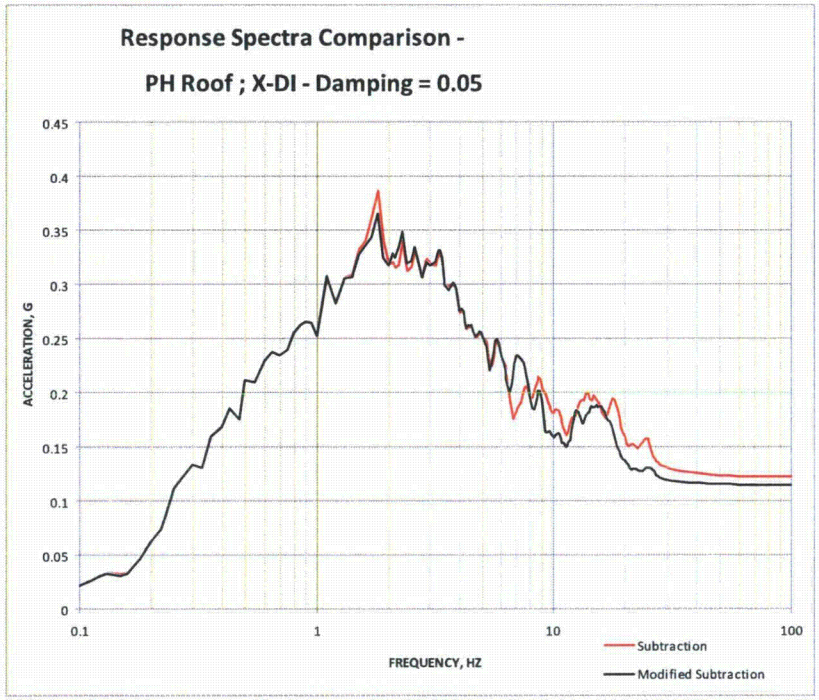
Full Basin

Empty Basin

Figure 03.07.01-29 S1.51: Mid-Level Pump House Walls (Group 2) - Z-Direction

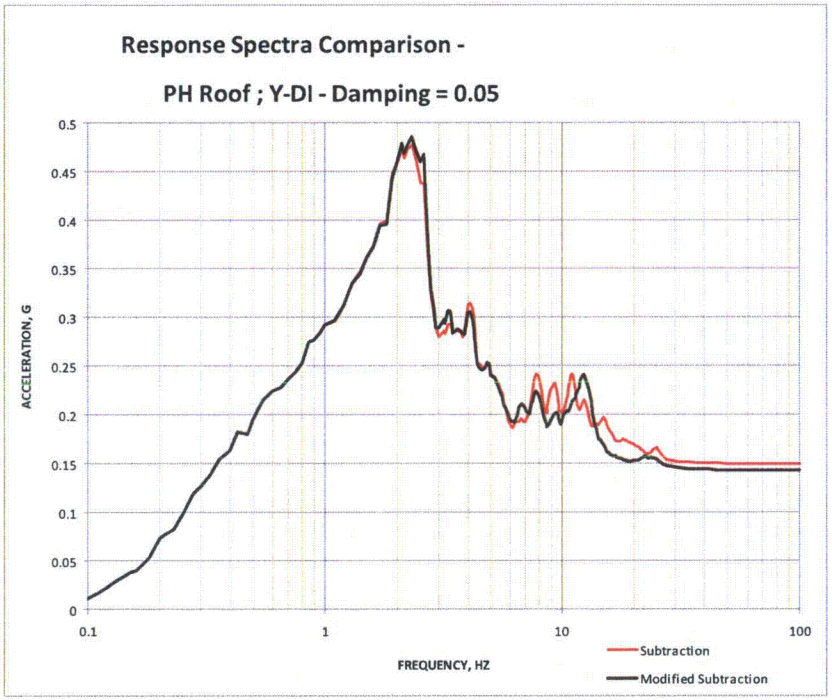


Full Basin

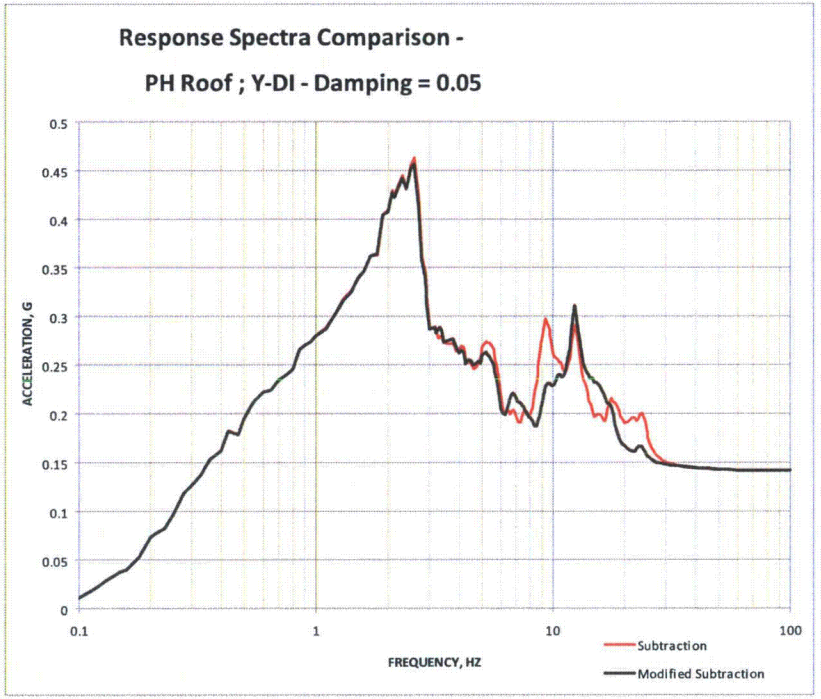


Empty Basin

Figure 03.07.01-29 S1.52: Pump House Roof (Group 3) - X-Direction

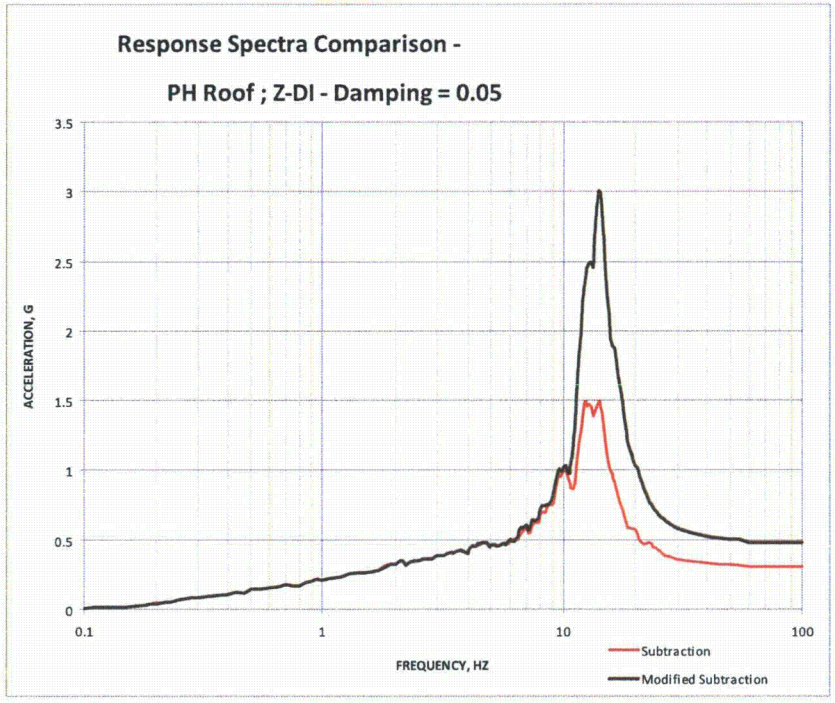


Full Basin

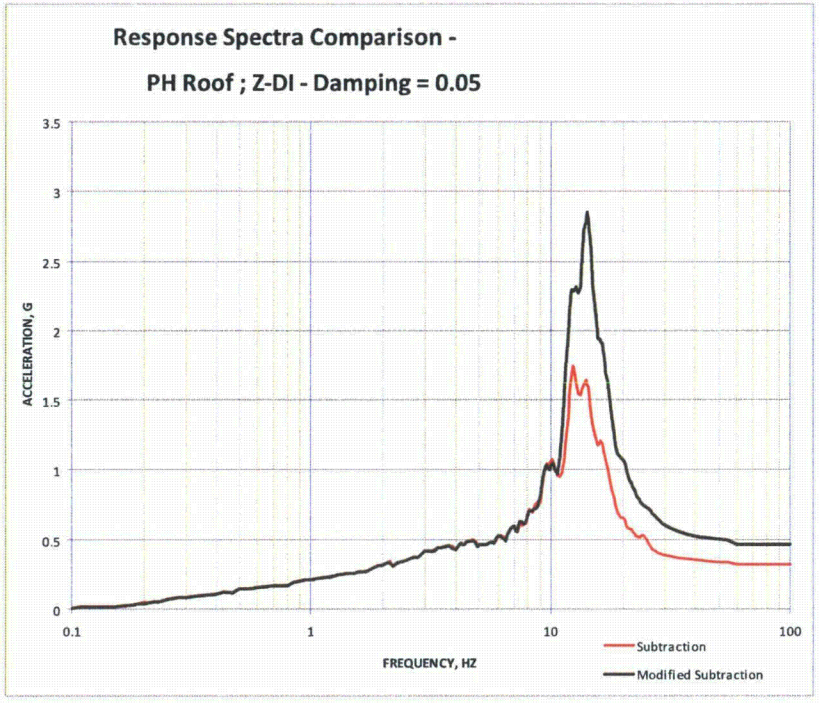


Empty Basin

Figure 03.07.01-29 S1.53: Pump House Roof (Group 3) - Y-Direction

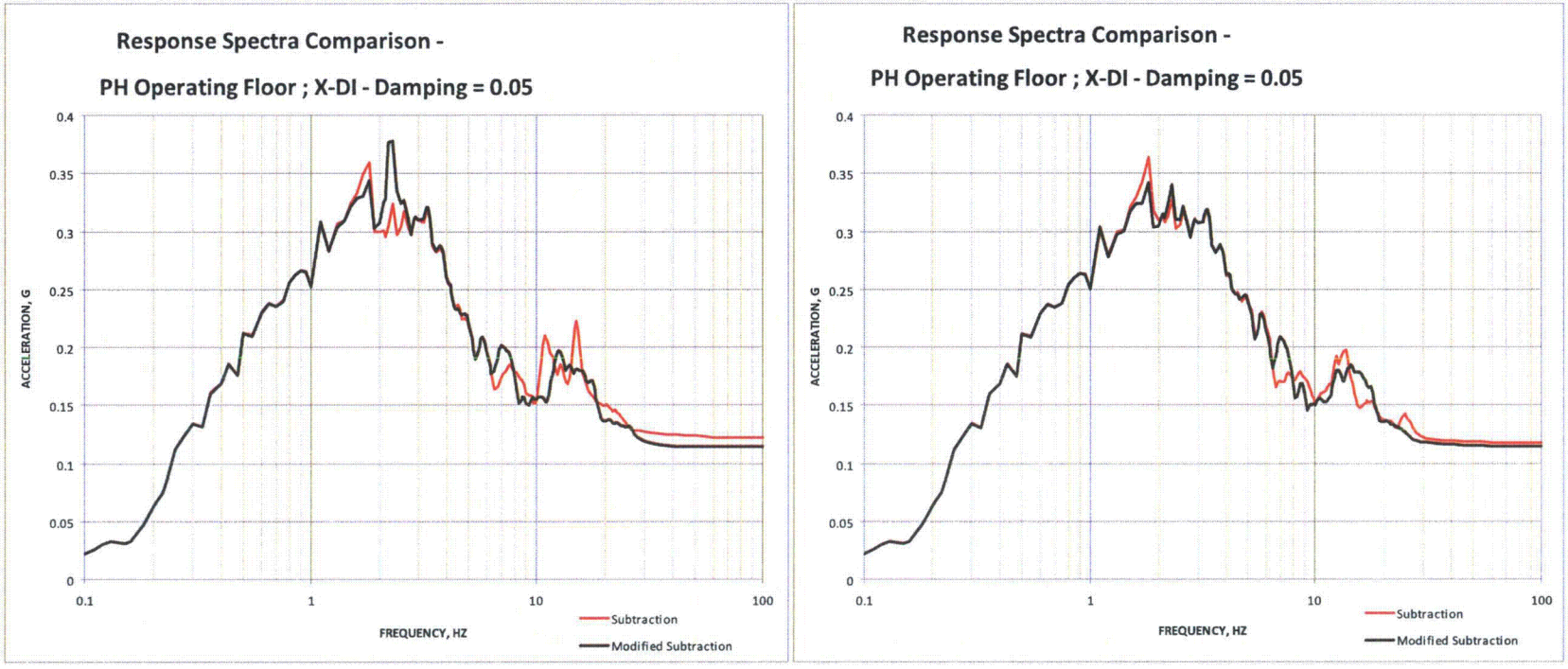


Full Basin



Empty Basin

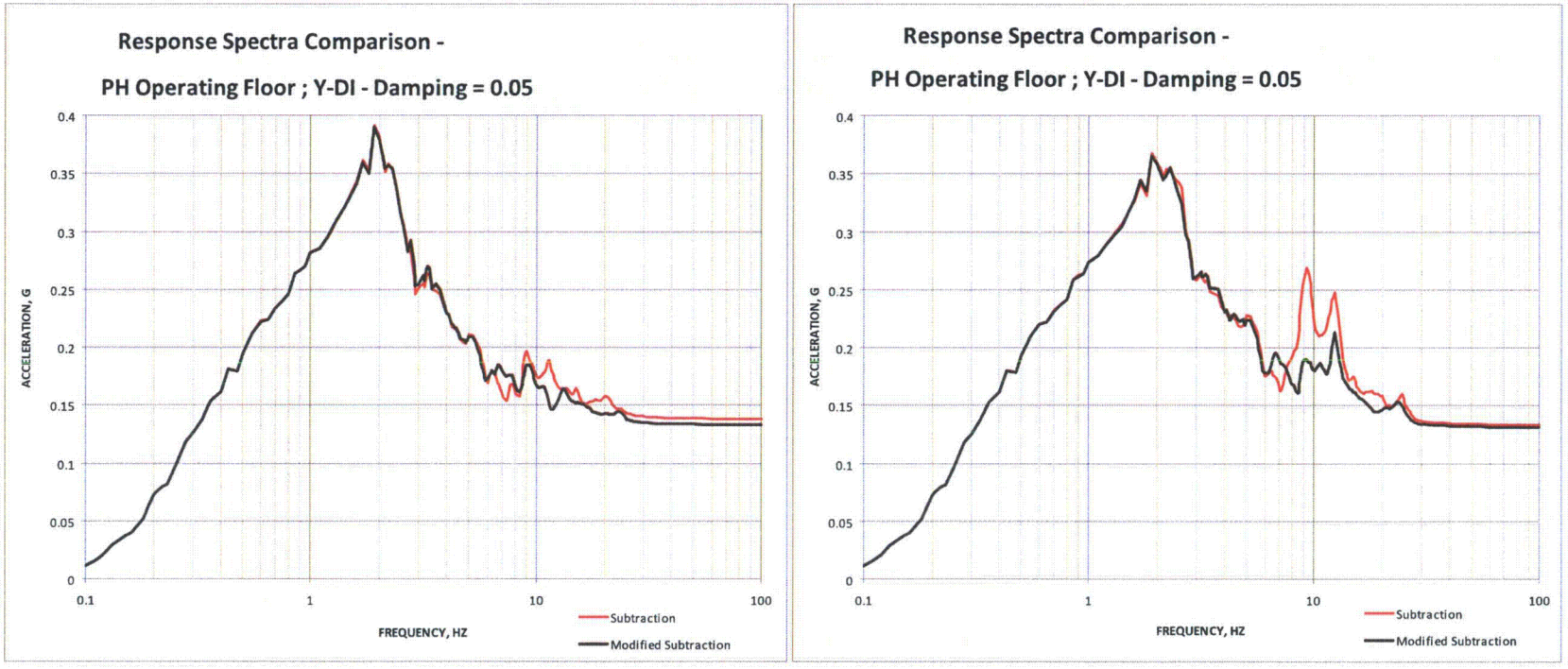
Figure 03.07.01-29 S1.54: Pump House Roof (Group 3) - Z-Direction



Full Basin

Empty Basin

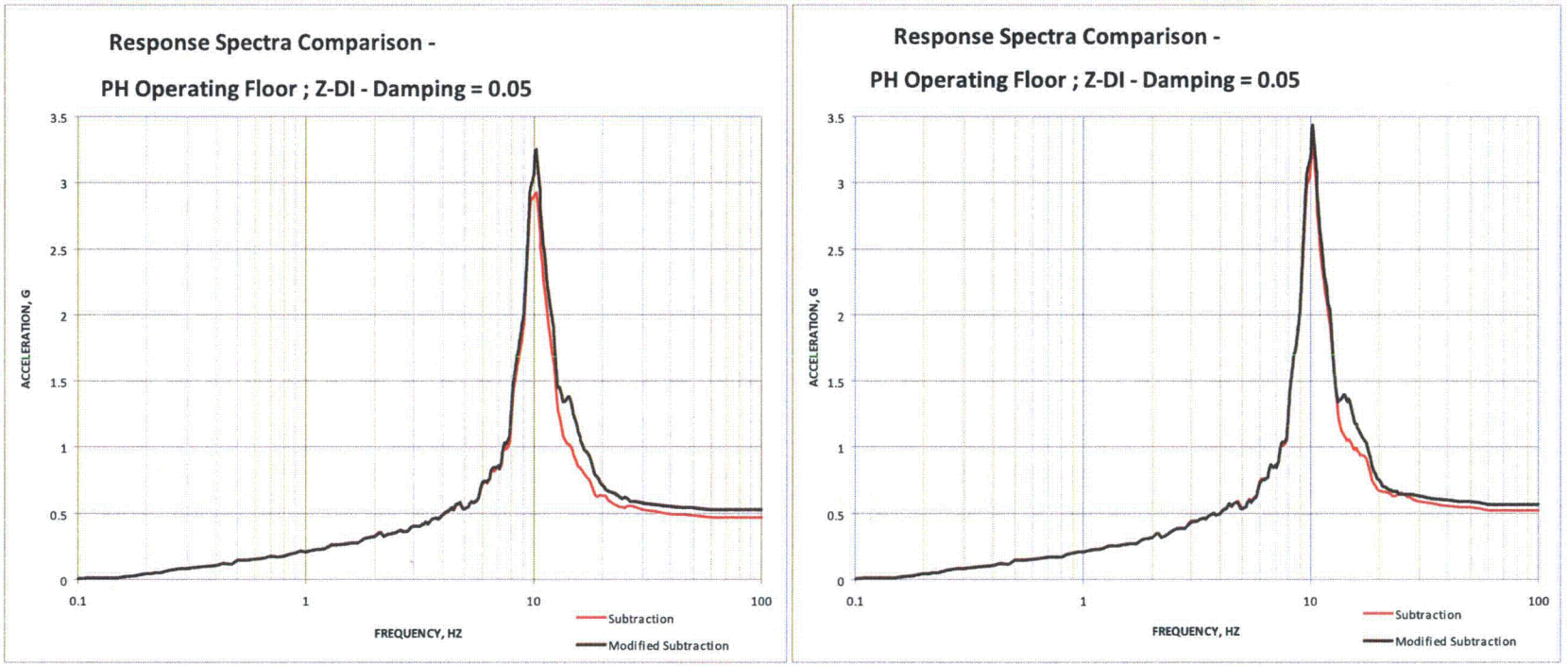
Figure 03.07.01-29 S1.55: Pump House Operating Floor (Group 4) - X-Direction



Full Basin

Empty Basin

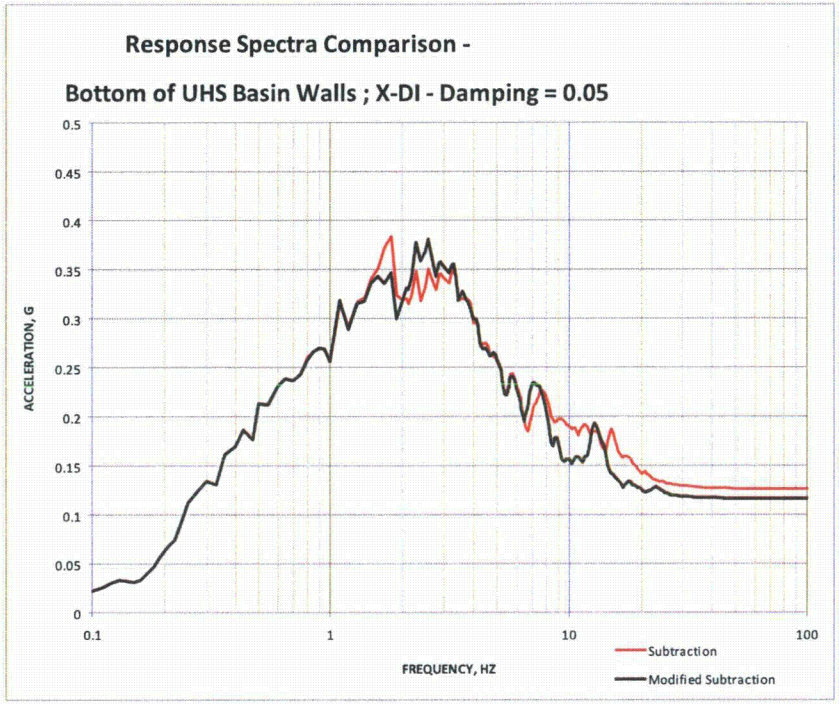
Figure 03.07.01-29 S1.56: Pump House Operating Floor (Group 4) - Y-Direction



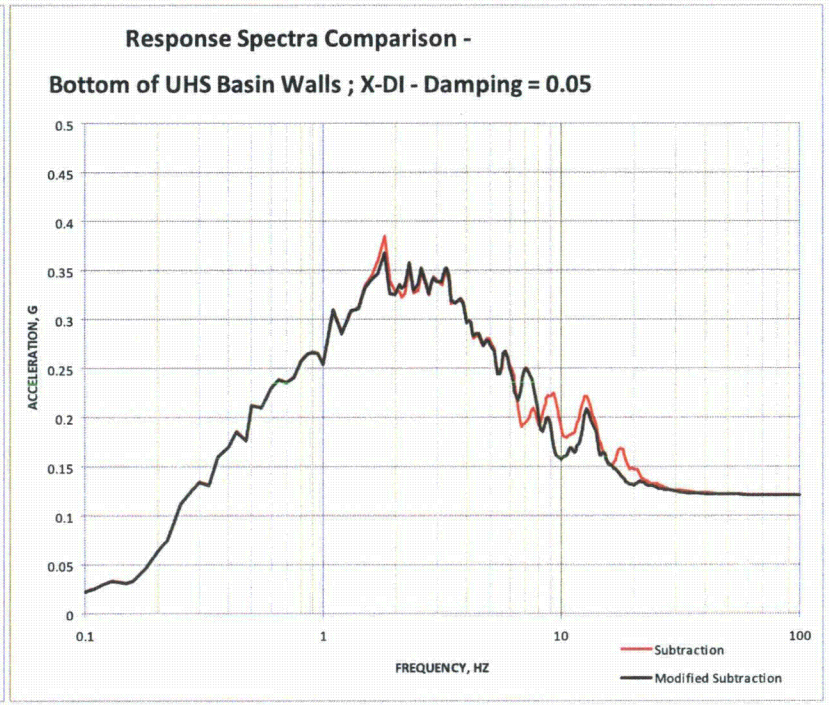
Full Basin

Empty Basin

Figure 03.07.01-29 S1.57: Pump House Operating Floor (Group 4) - Z-Direction

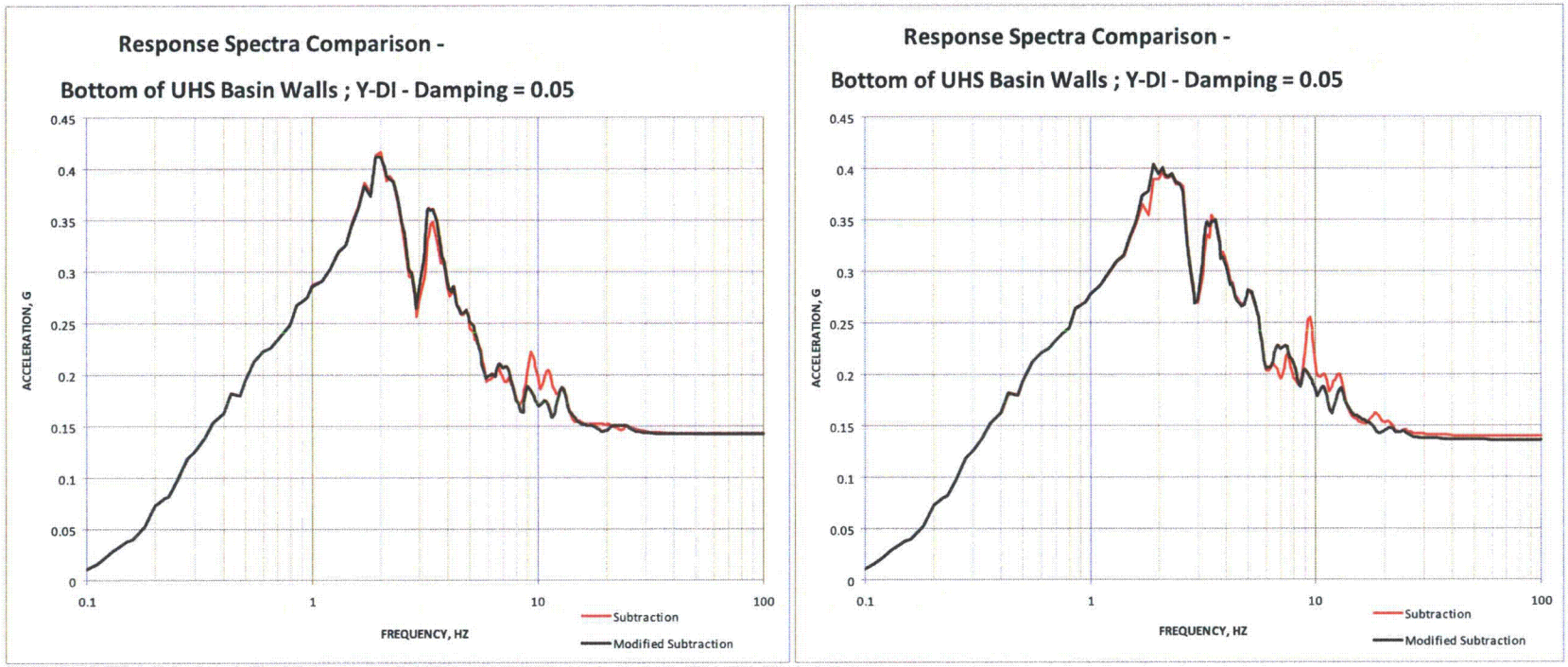


Full Basin



Empty Basin

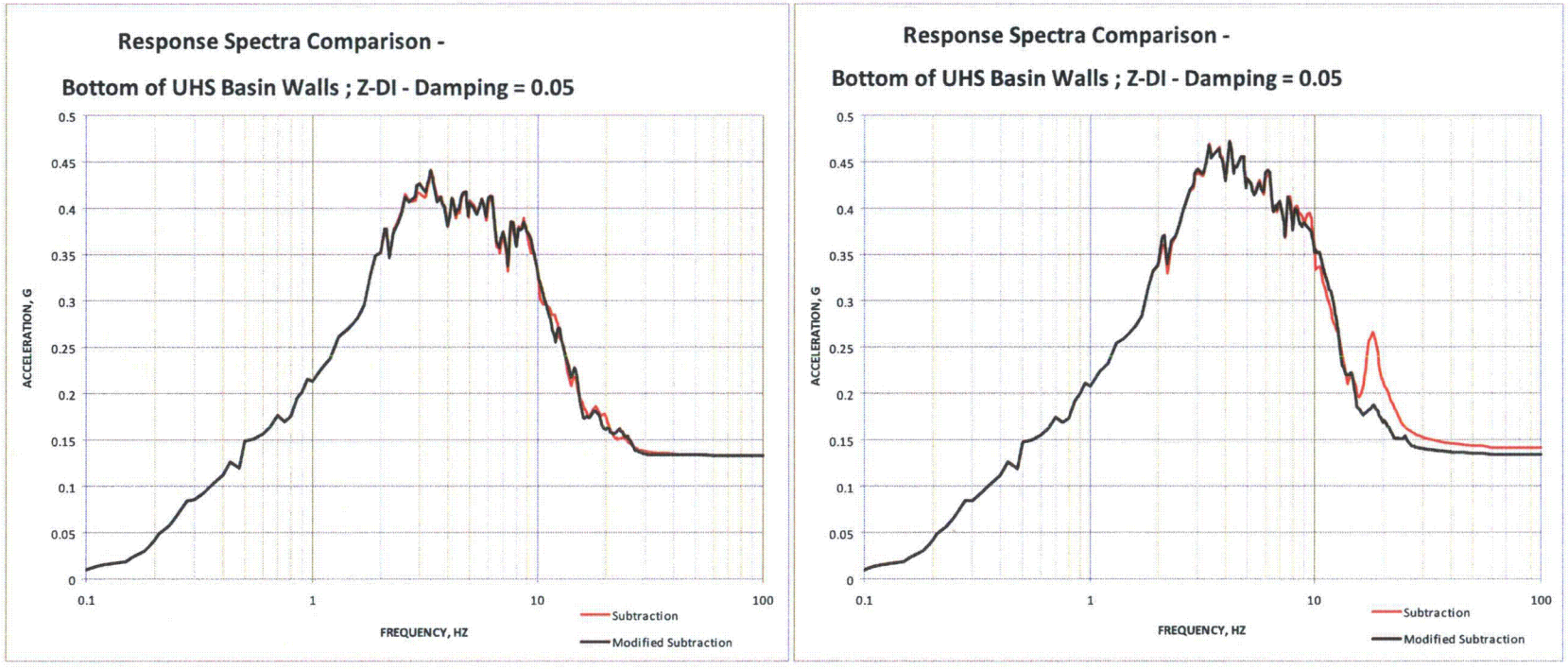
Figure 03.07.01-29 S1.58: Bottom of UHS Basin Walls (Group 5) - X-Direction



Full Basin

Empty Basin

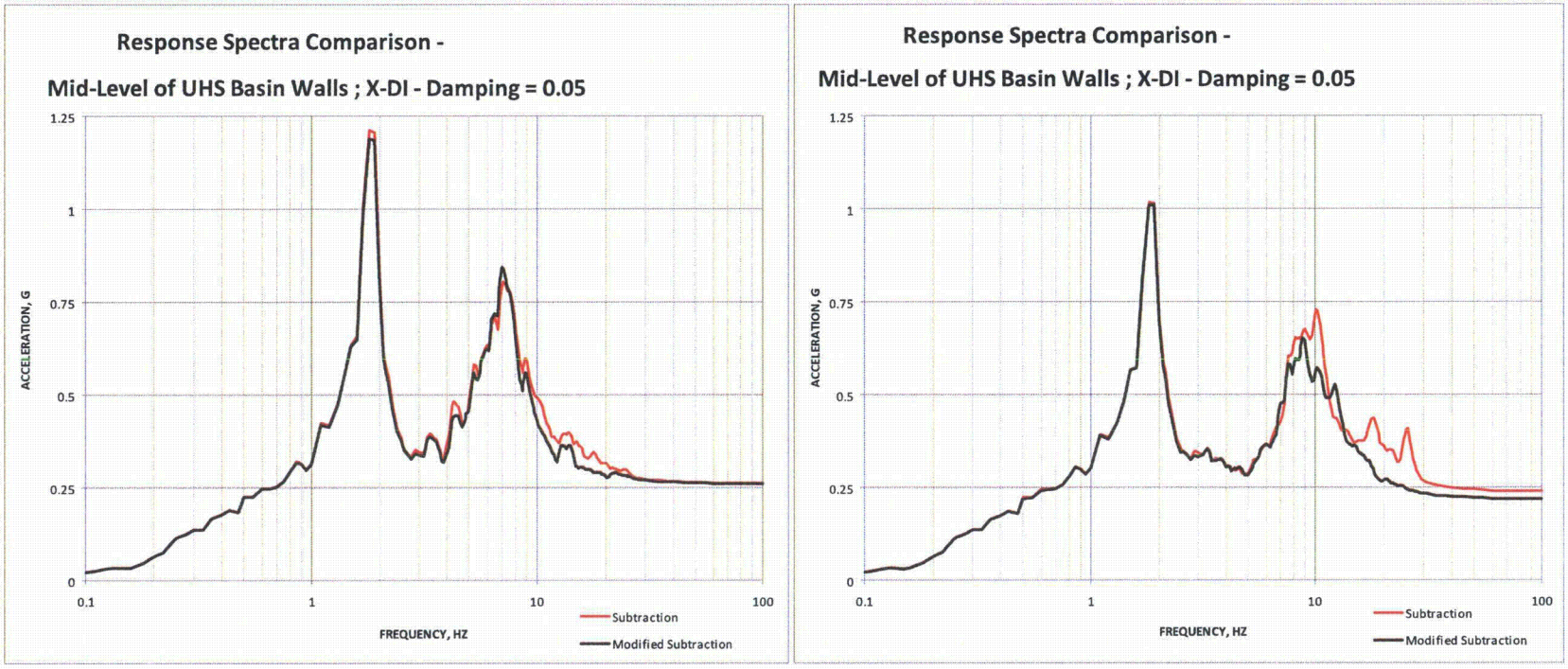
Figure 03.07.01-29 S1.59: Bottom of UHS Basin Walls (Group 5) - Y-Direction



Full Basin

Empty Basin

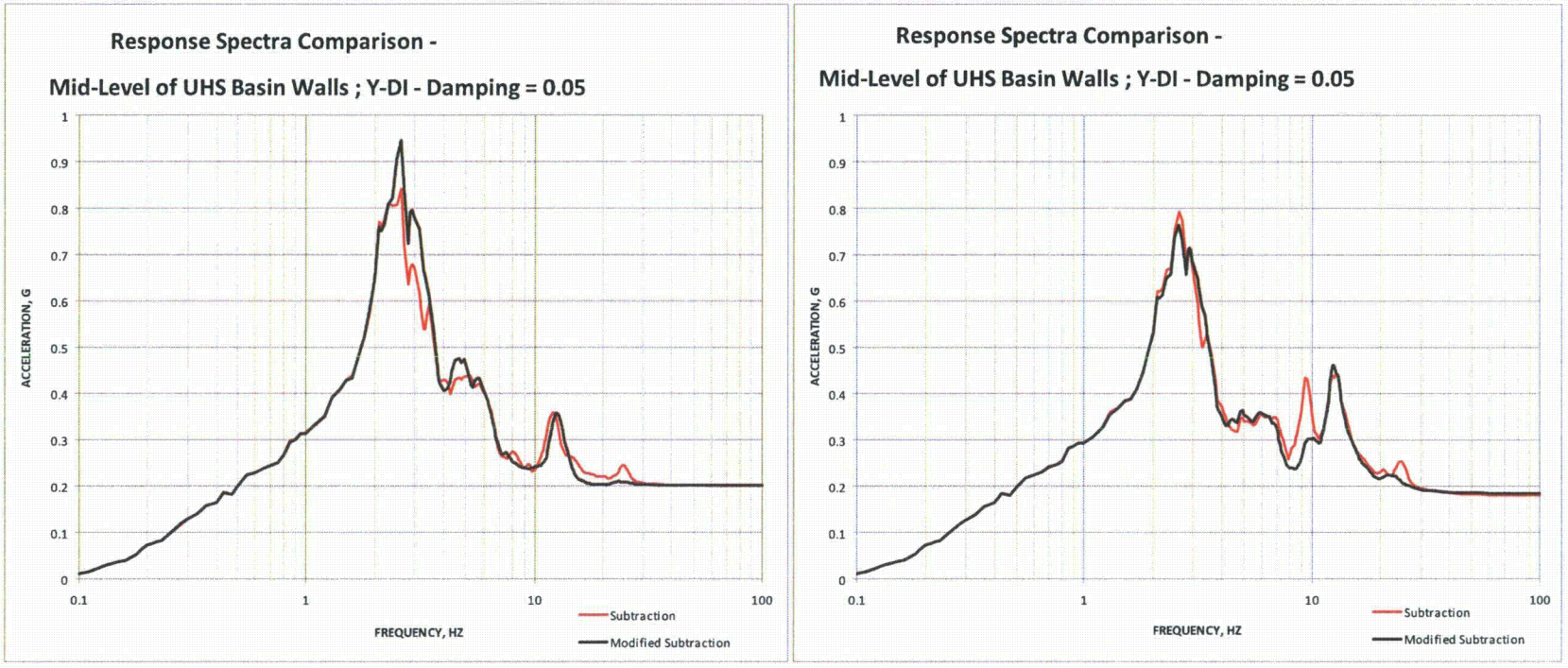
Figure 03.07.01-29 S1.60: Bottom of UHS Basin Walls (Group 5) - Z-Direction



Full Basin

Empty Basin

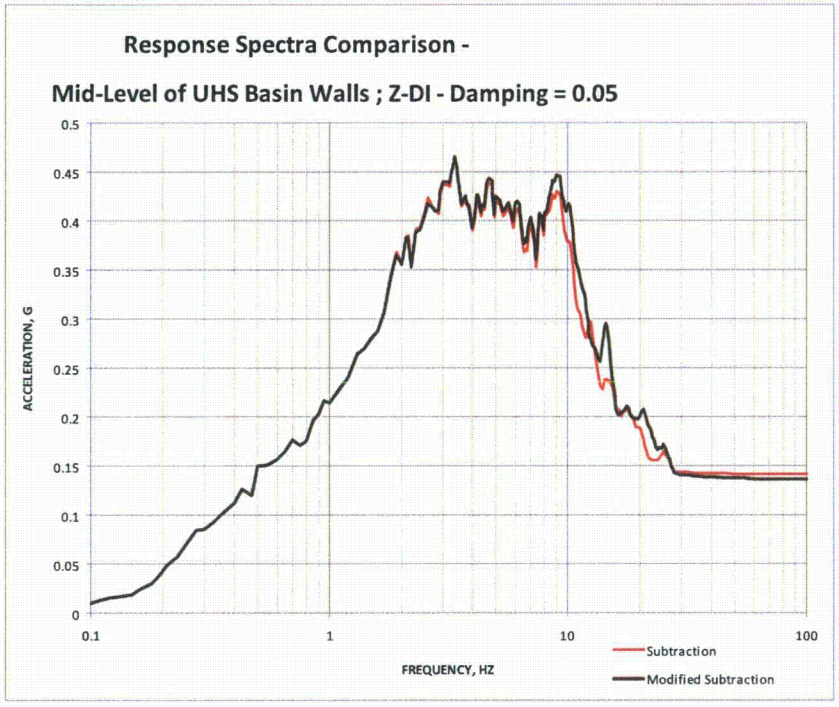
Figure 03.07.01-29 S1.61: Mid-Level of UHS Basin Walls (Group 6) - X-Direction



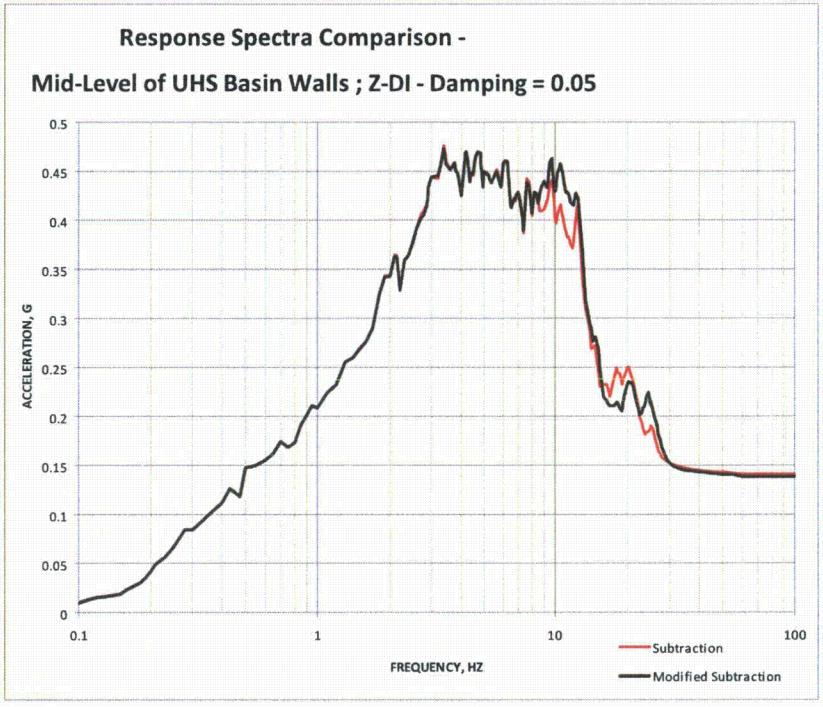
Full Basin

Empty Basin

Figure 03.07.01-29 S1.62: Mid-Level of UHS Basin Walls (Group 6) - Y-Direction

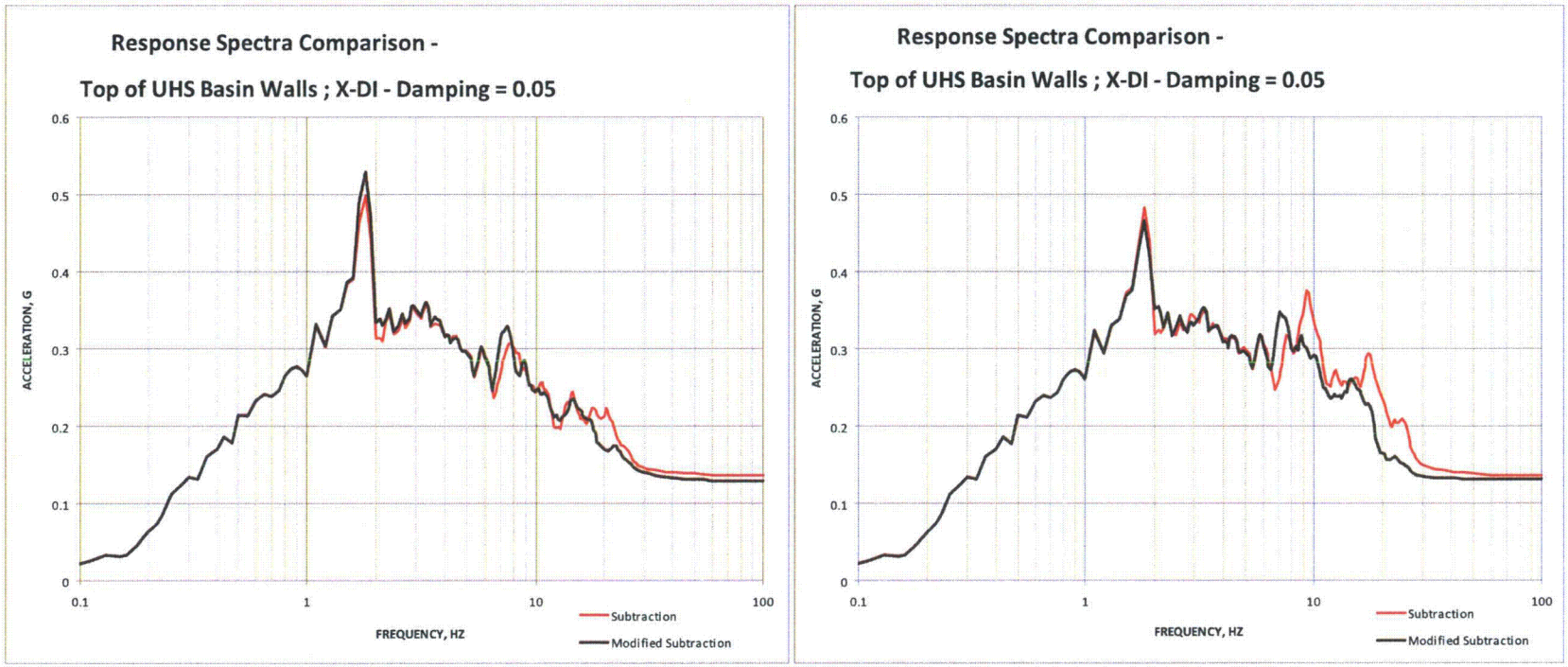


Full Basin



Empty Basin

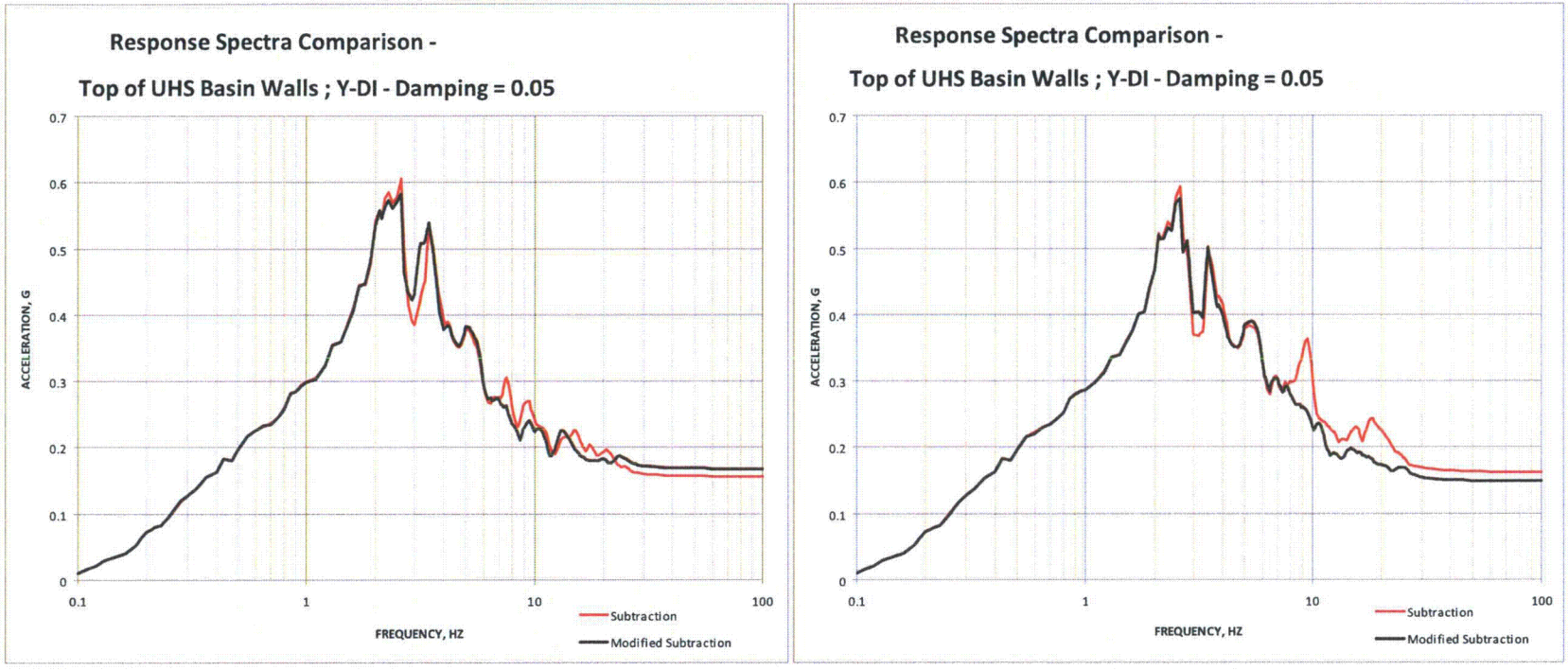
Figure 03.07.01-29 S1.63: Mid-Level of UHS Basin Walls (Group 6) - Z-Direction



Full Basin

Empty Basin

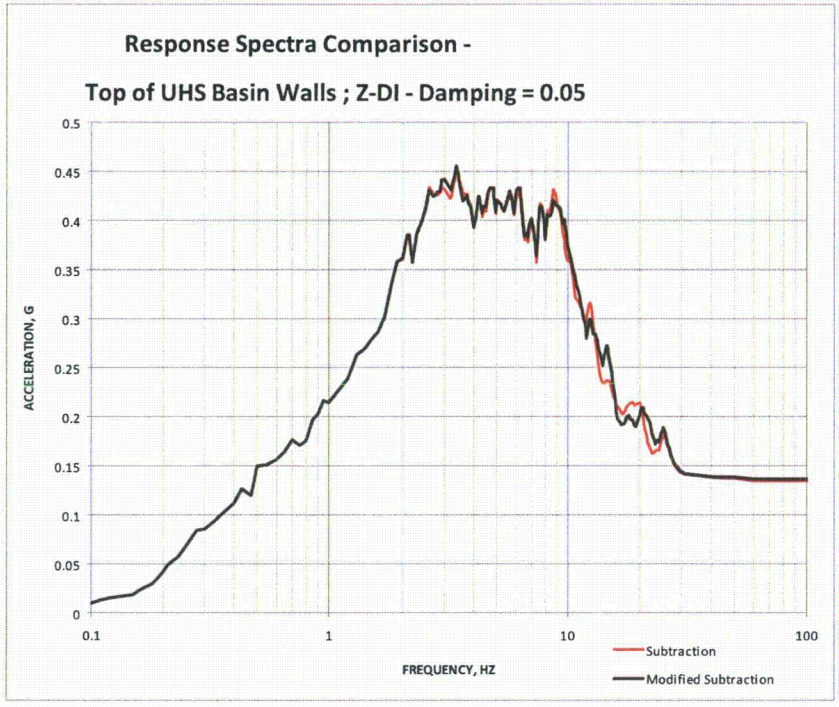
Figure 03.07.01-29 S1.64: Top of UHS Basin Walls (Group 7) - X-Direction



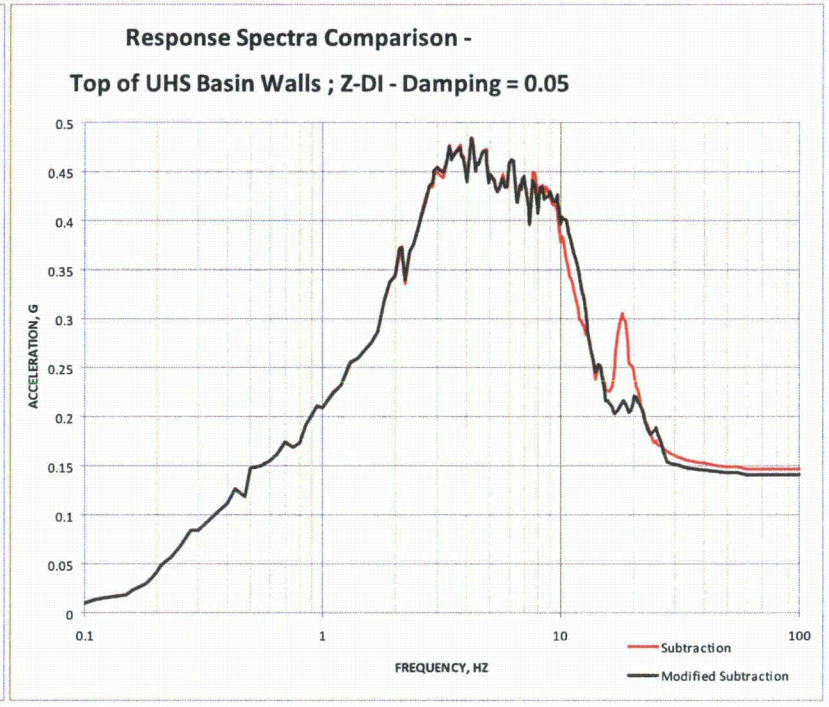
Full Basin

Empty Basin

Figure 03.07.01-29 S1.65: Top of UHS Basin Walls (Group 7) - Y-Direction

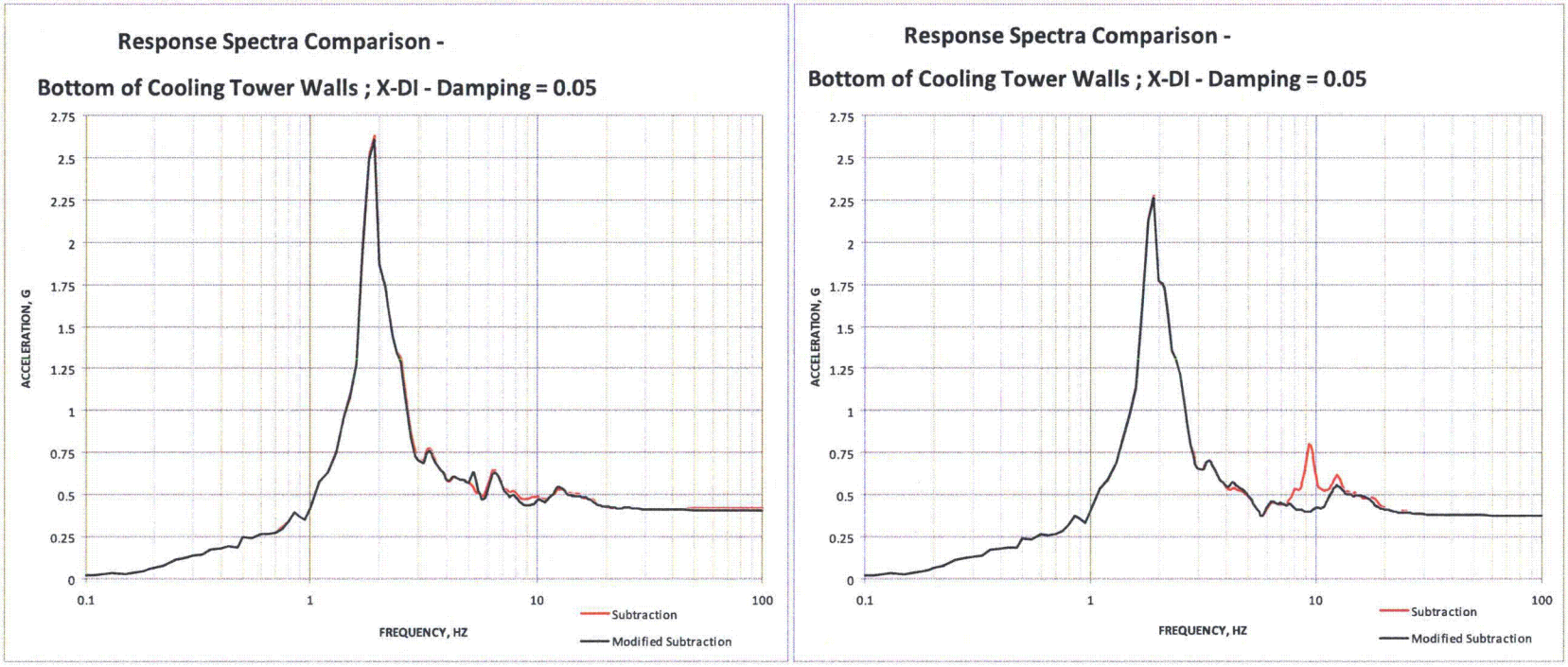


Full Basin



Empty Basin

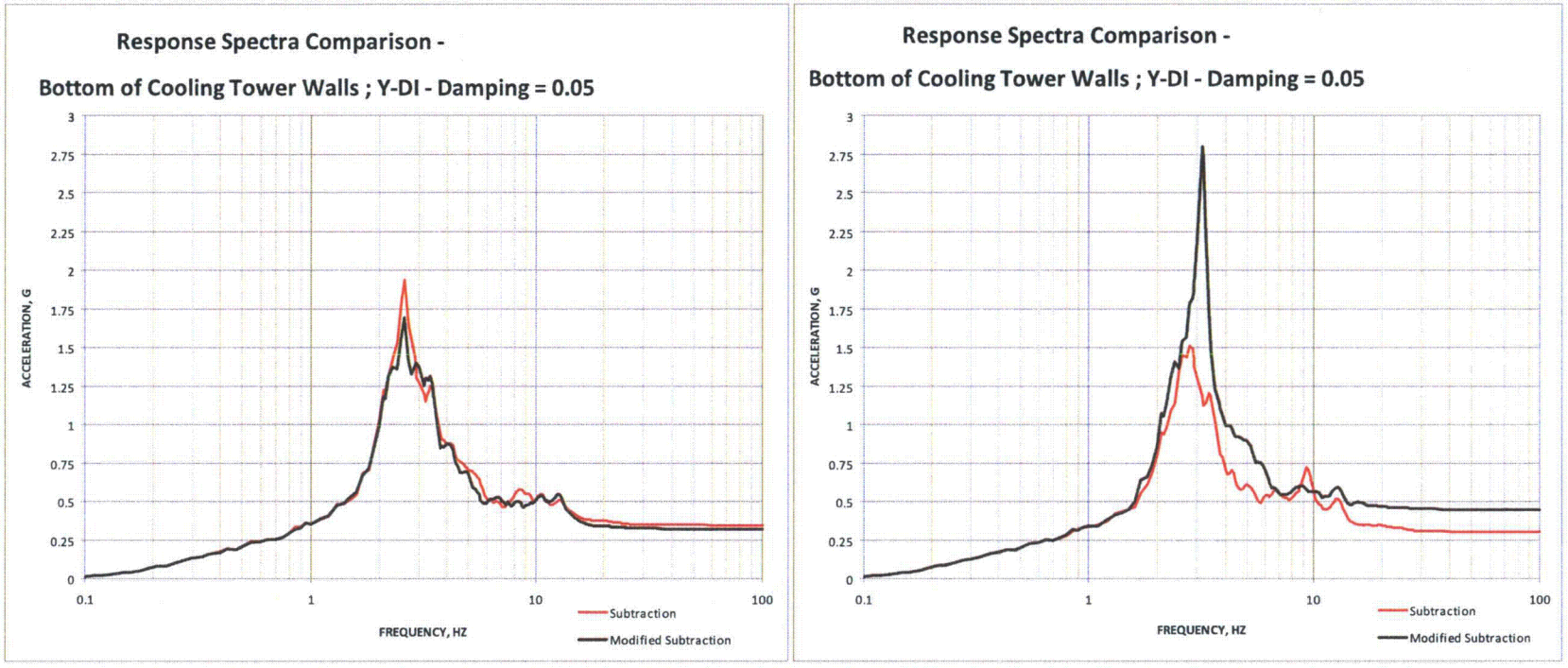
Figure 03.07.01-29 S1.66: Top of UHS Basin Walls (Group 7) - Z-Direction



Full Basin

Empty Basin

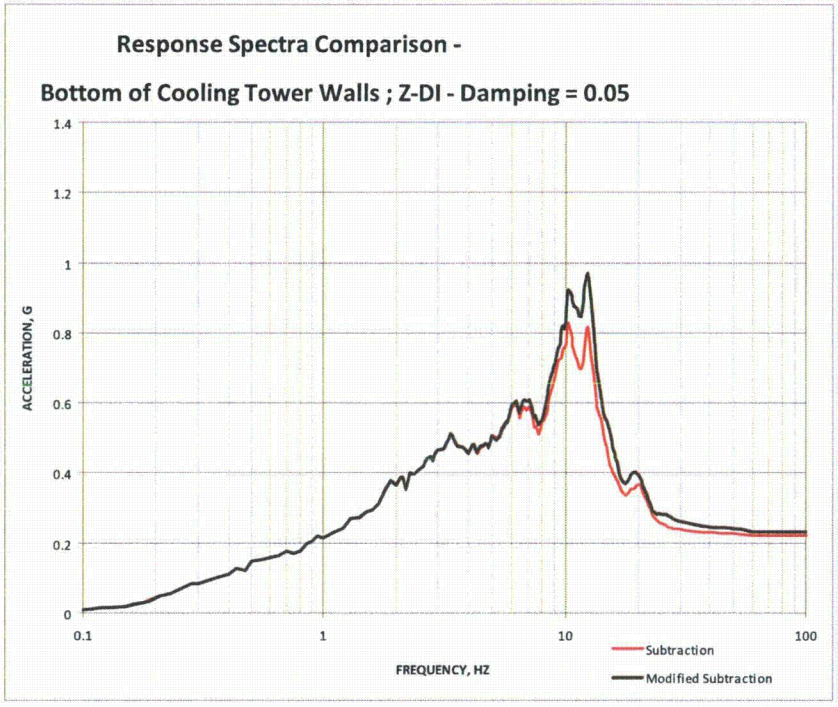
Figure 03.07.01-29 S1.67: Bottom of Cooling Tower Walls (Group 8) - X-Direction



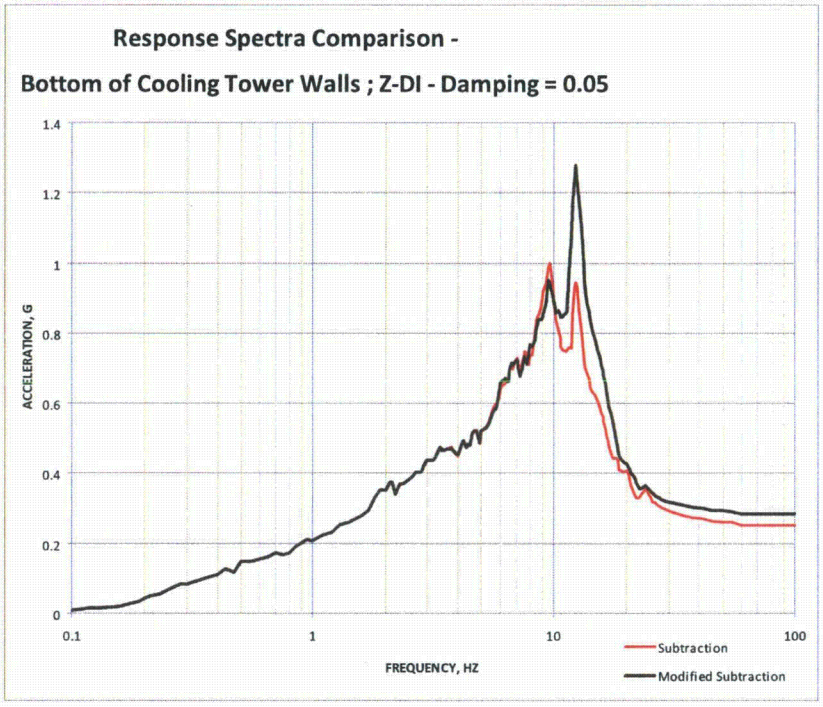
Full Basin

Empty Basin

Figure 03.07.01-29 S1.68: Bottom of Cooling Tower Walls (Group 8) - Y-Direction

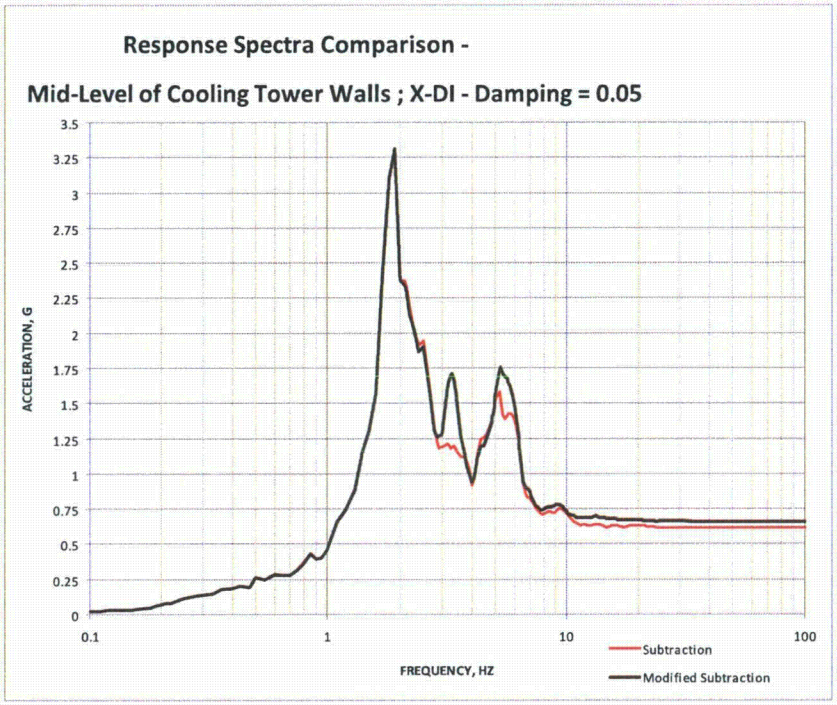


Full Basin

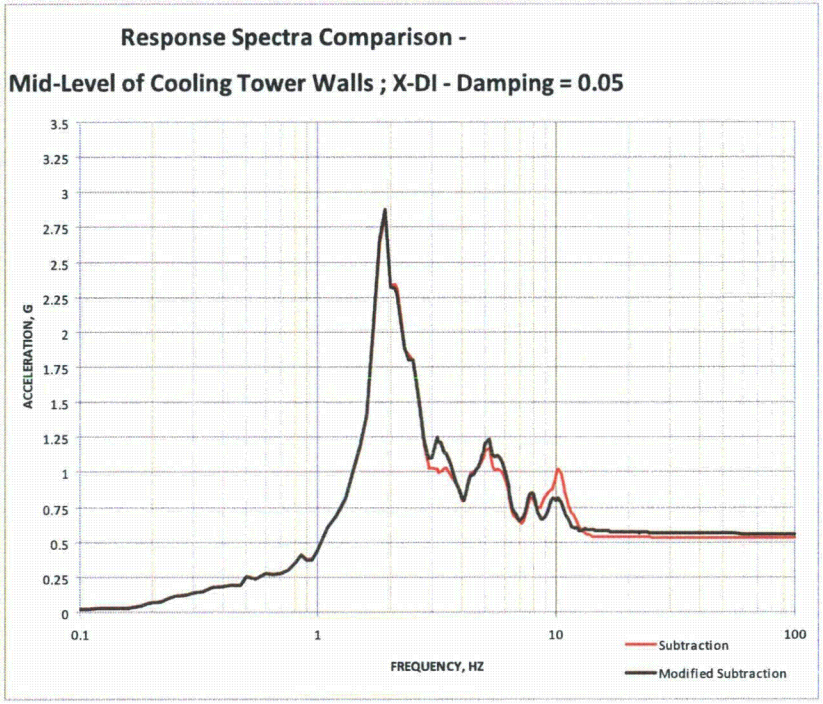


Empty Basin

Figure 03.07.01-29 S1.69: Bottom of Cooling Tower Walls (Group 8) - Z-Direction

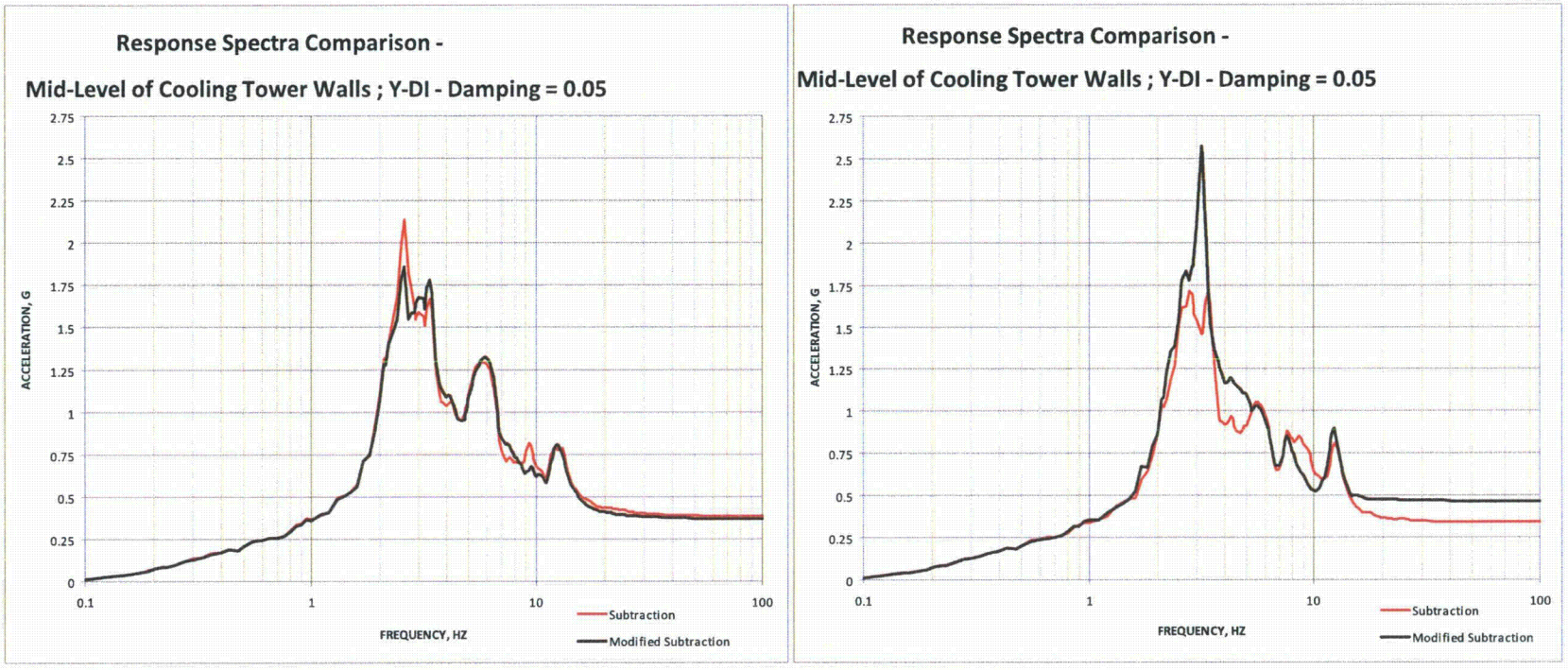


Full Basin



Empty Basin

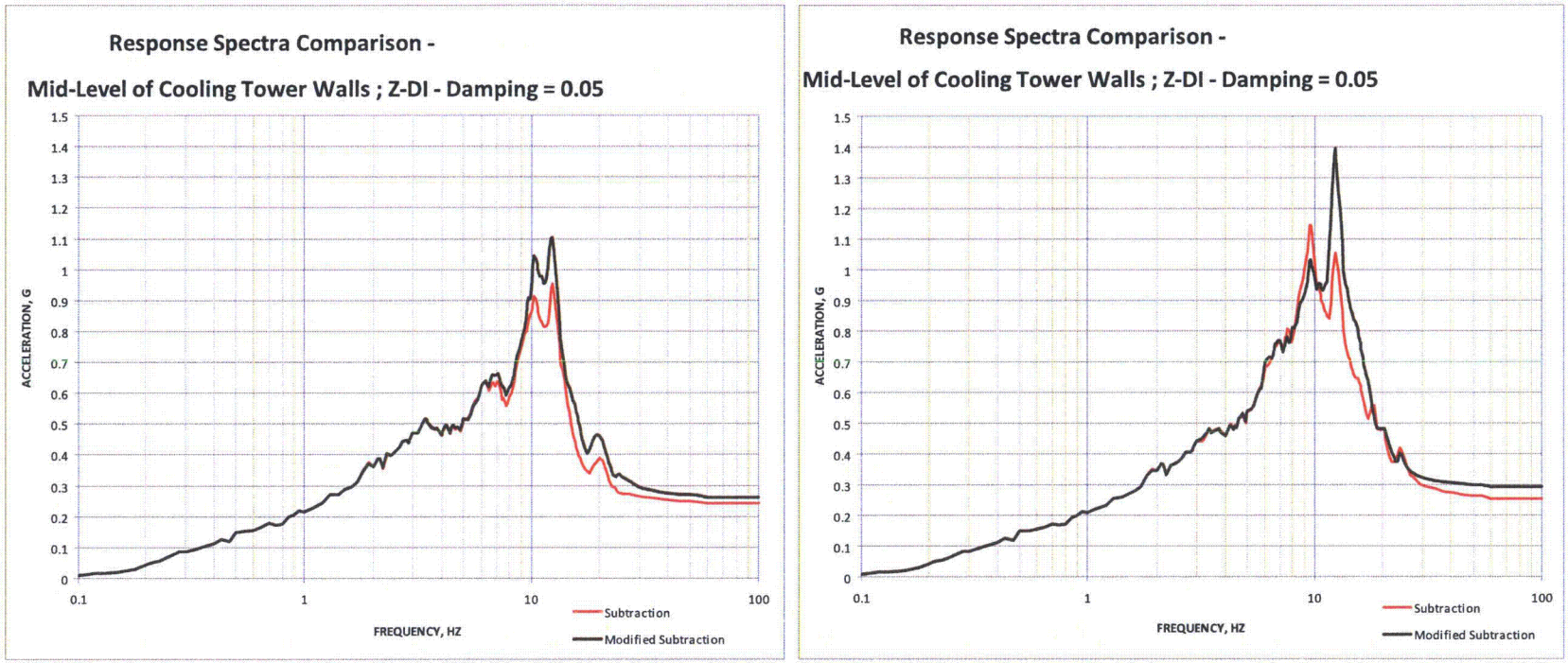
Figure 03.07.01-29 S1.70: Mid-Level of Cooling Tower Walls (Group 9) - X-Direction



Full Basin

Empty Basin

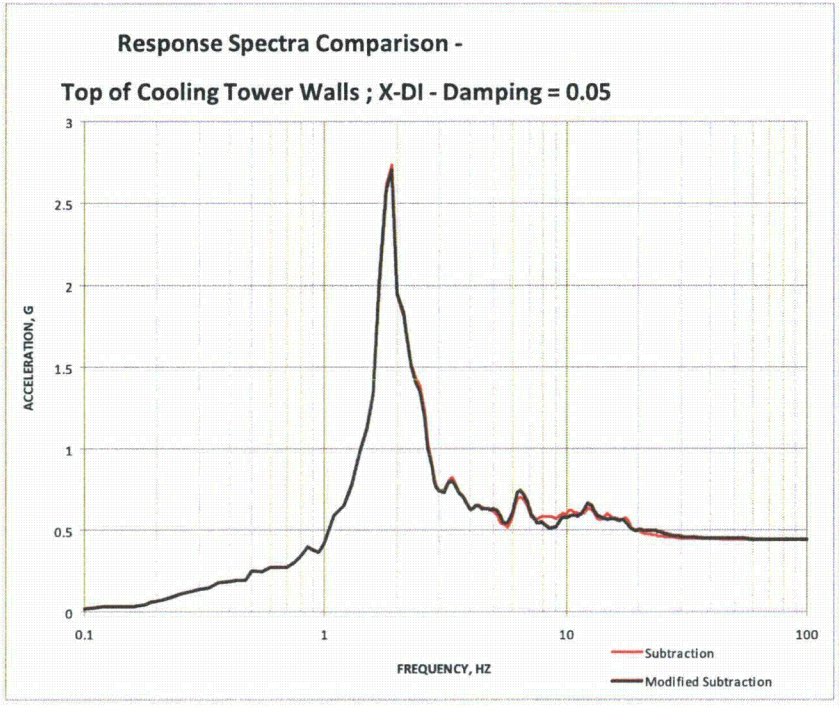
Figure 03.07.01-29 S1.71: Mid-Level of Cooling Tower Walls (Group 9) - Y-Direction



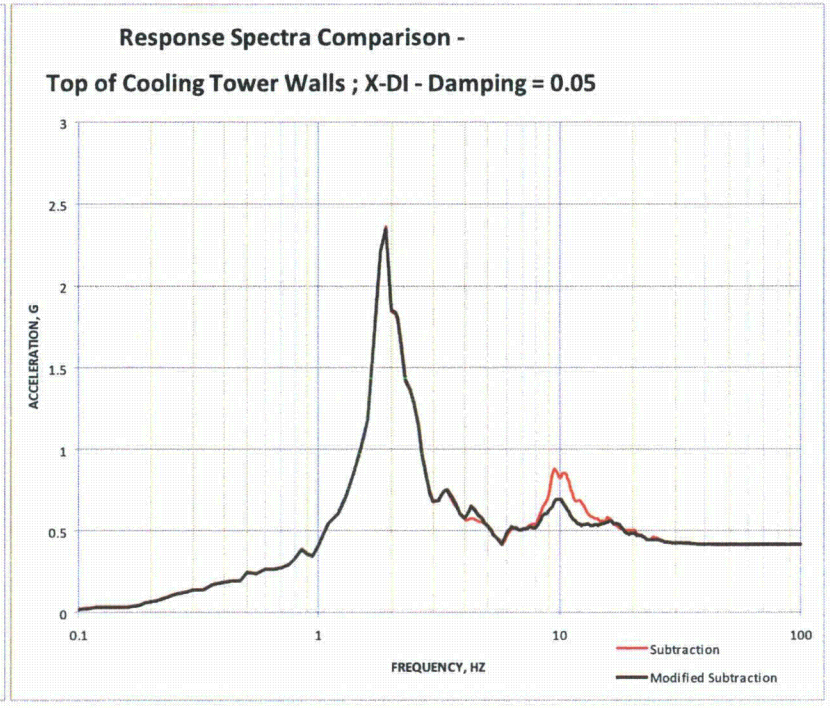
Full Basin

Empty Basin

Figure 03.07.01-29 S1.72: Mid-Level of Cooling Tower Walls (Group 9) - Z-Direction

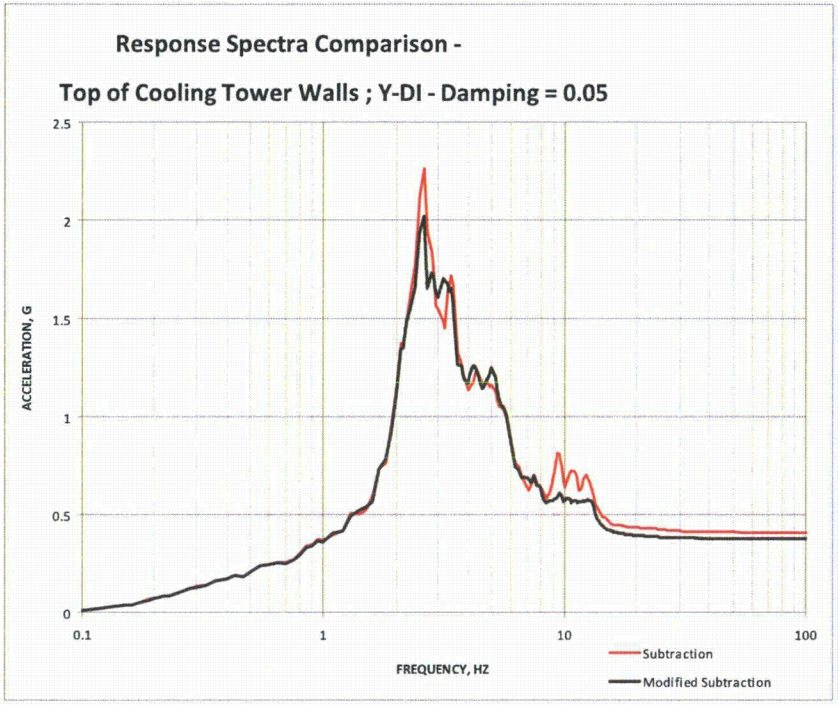


Full Basin

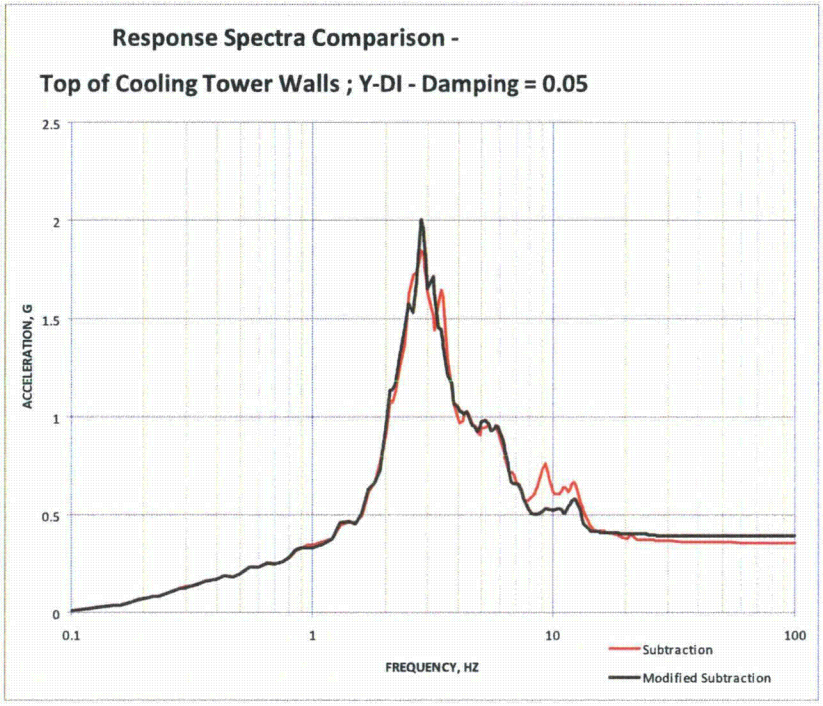


Empty Basin

Figure 03.07.01-29 S1.73: Top of Cooling Tower Walls (Group 10) - X-Direction

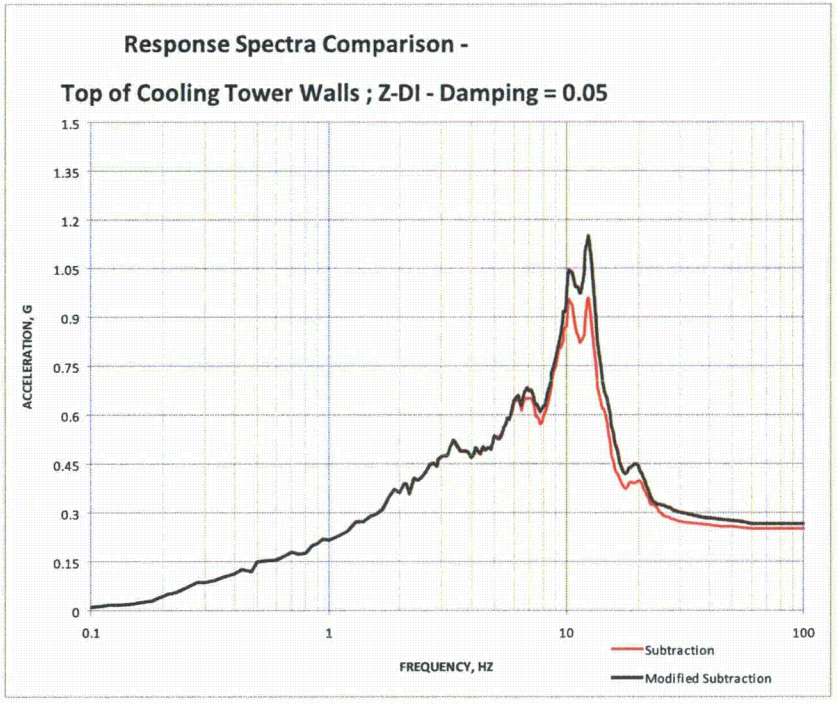


Full Basin

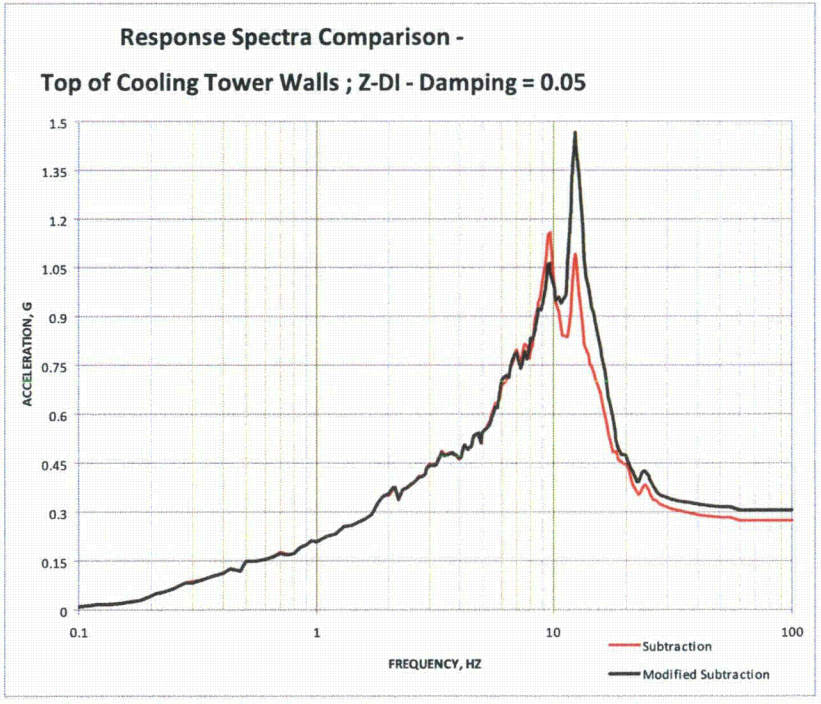


Empty Basin

Figure 03.07.01-29 S1.74: Top of Cooling Tower Walls (Group 10) - Y-Direction



Full Basin



Empty Basin

Figure 03.07.01-29 S1.75: Top of Cooling Tower Walls (Group 10) - Z-Direction

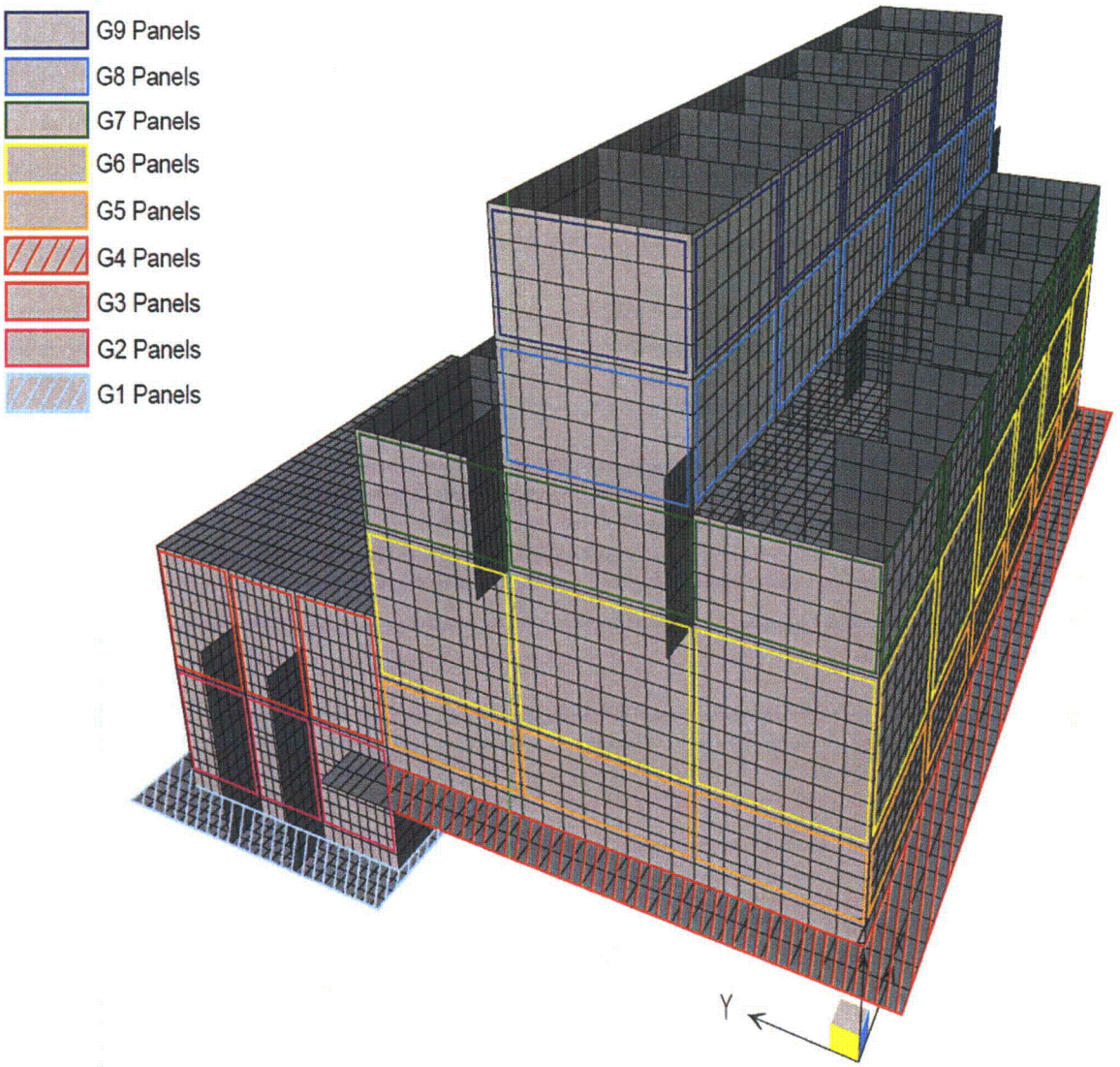


Figure 03.07.01-29 S1.76: Nine Major Groups for Accelerations of UHS/RSW Pump House

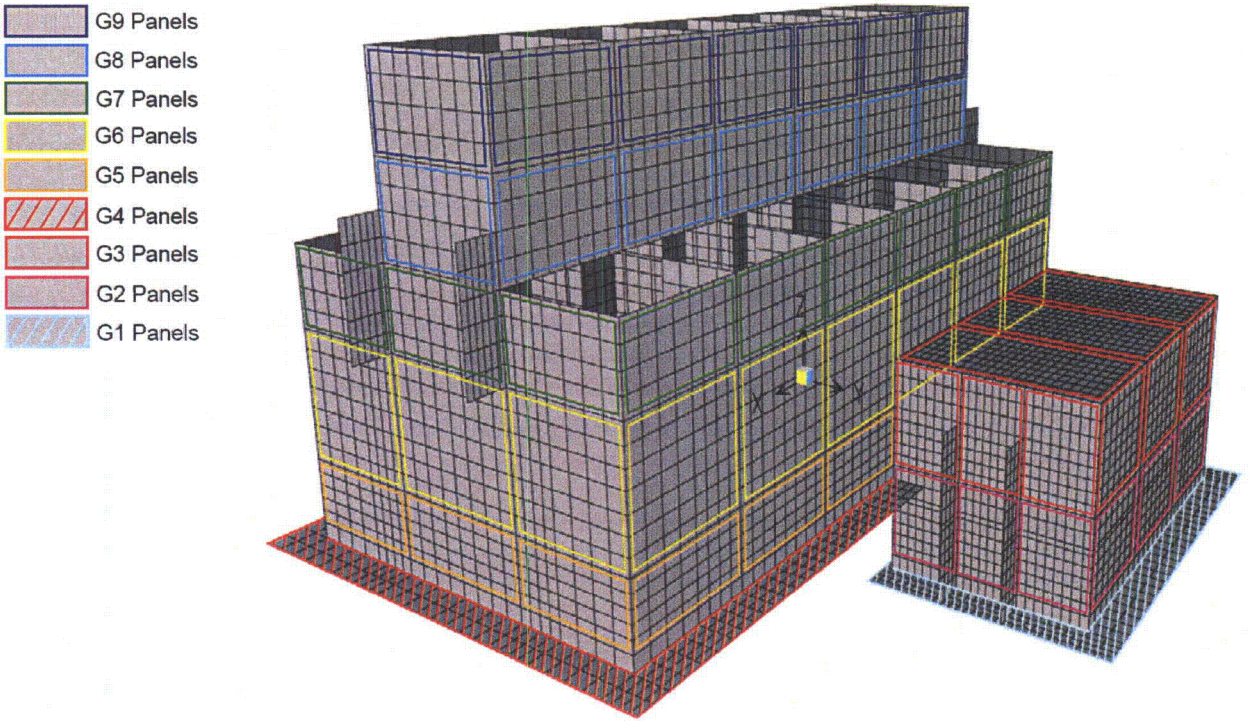


Figure 03.07.01-29 S1.77: Nine Major Groups for Accelerations of UHS/RSW Pump House

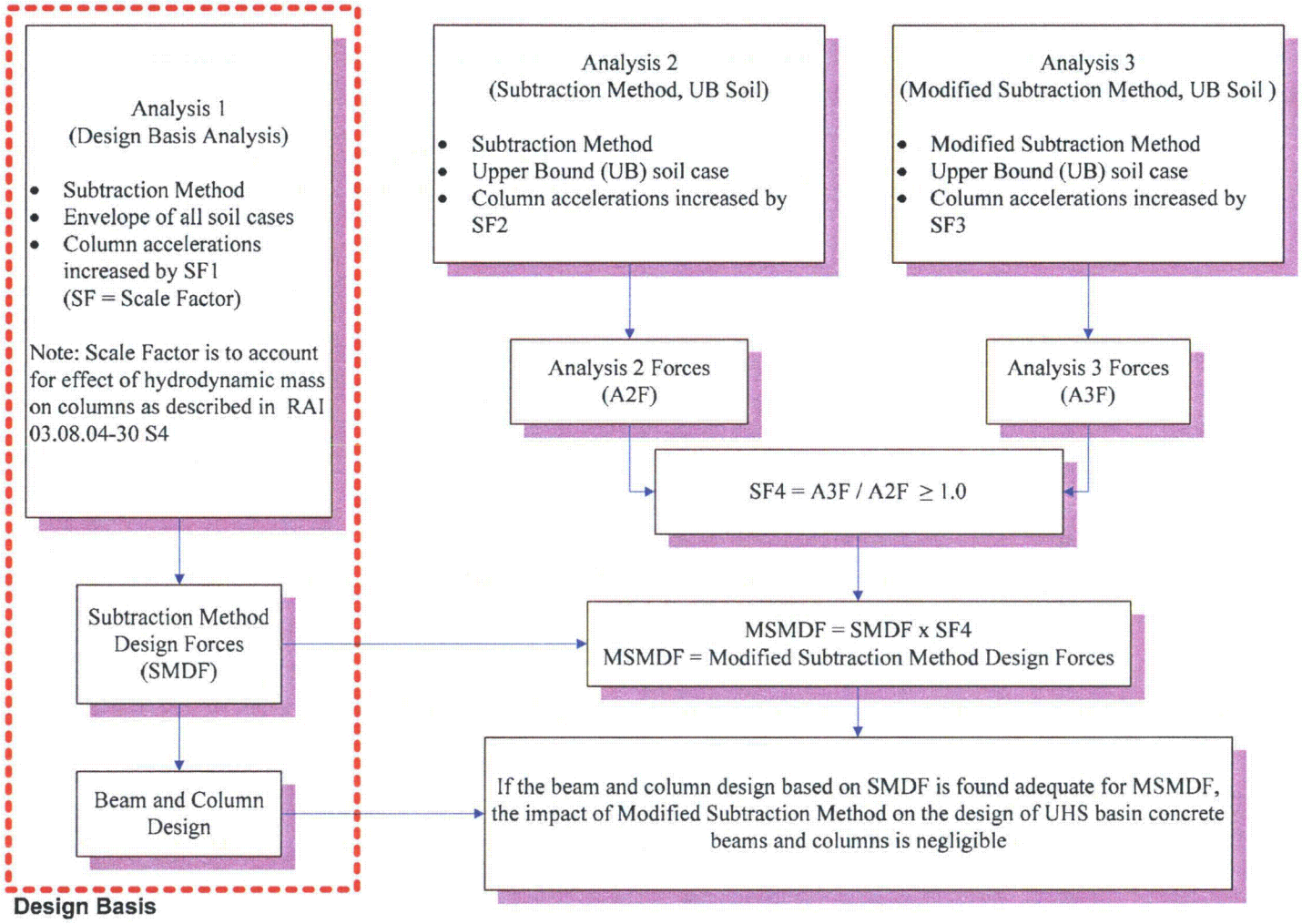


Figure 03.07.01-29 S1.78: Procedure for Evaluation of UHS Basin Concrete Beams and Columns for Impact of Modified Subtraction Method for Full and Empty Basin Cases

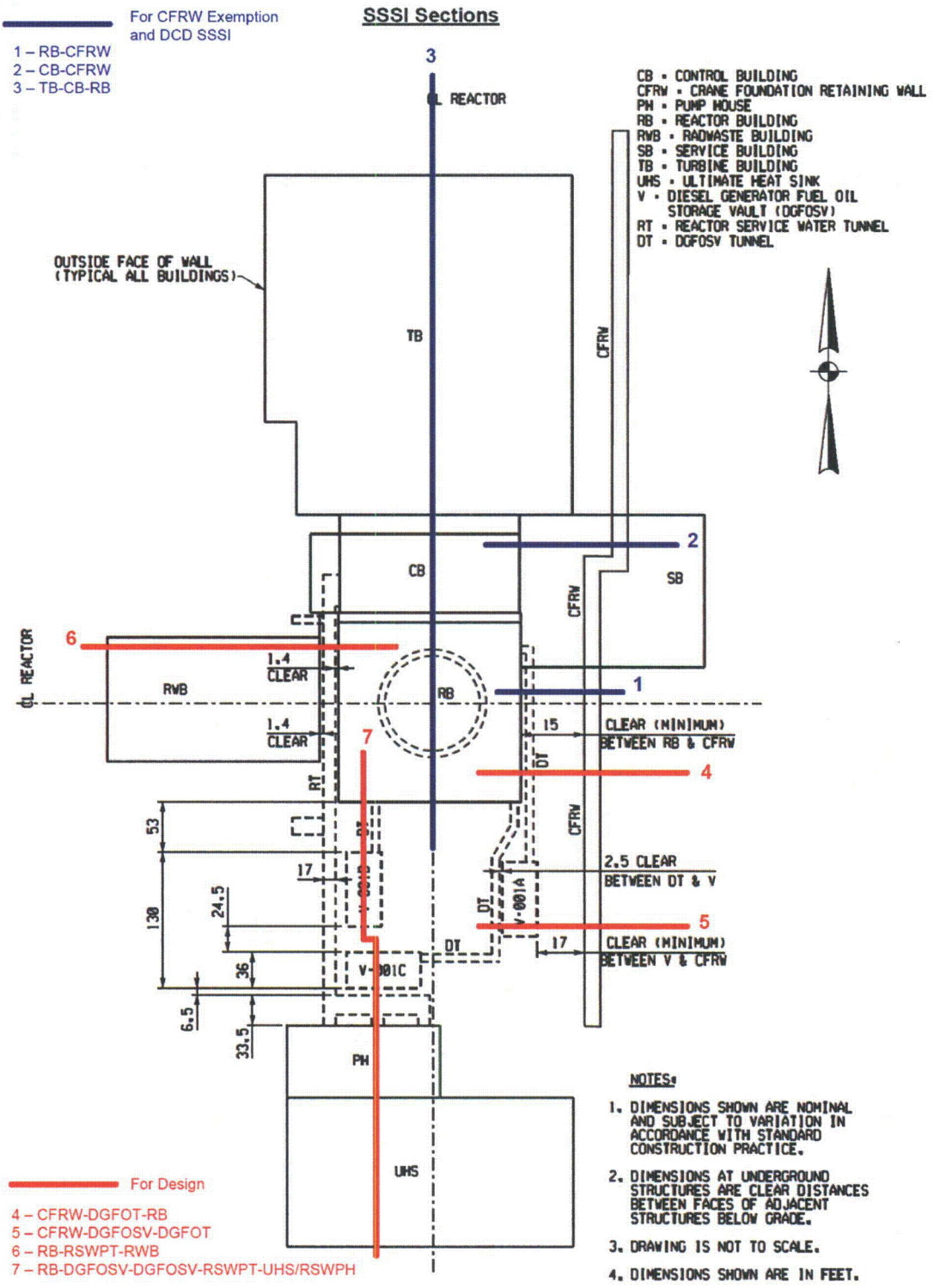


Figure 03.07.01-29 S1.79: Sections for SSSI Analyses

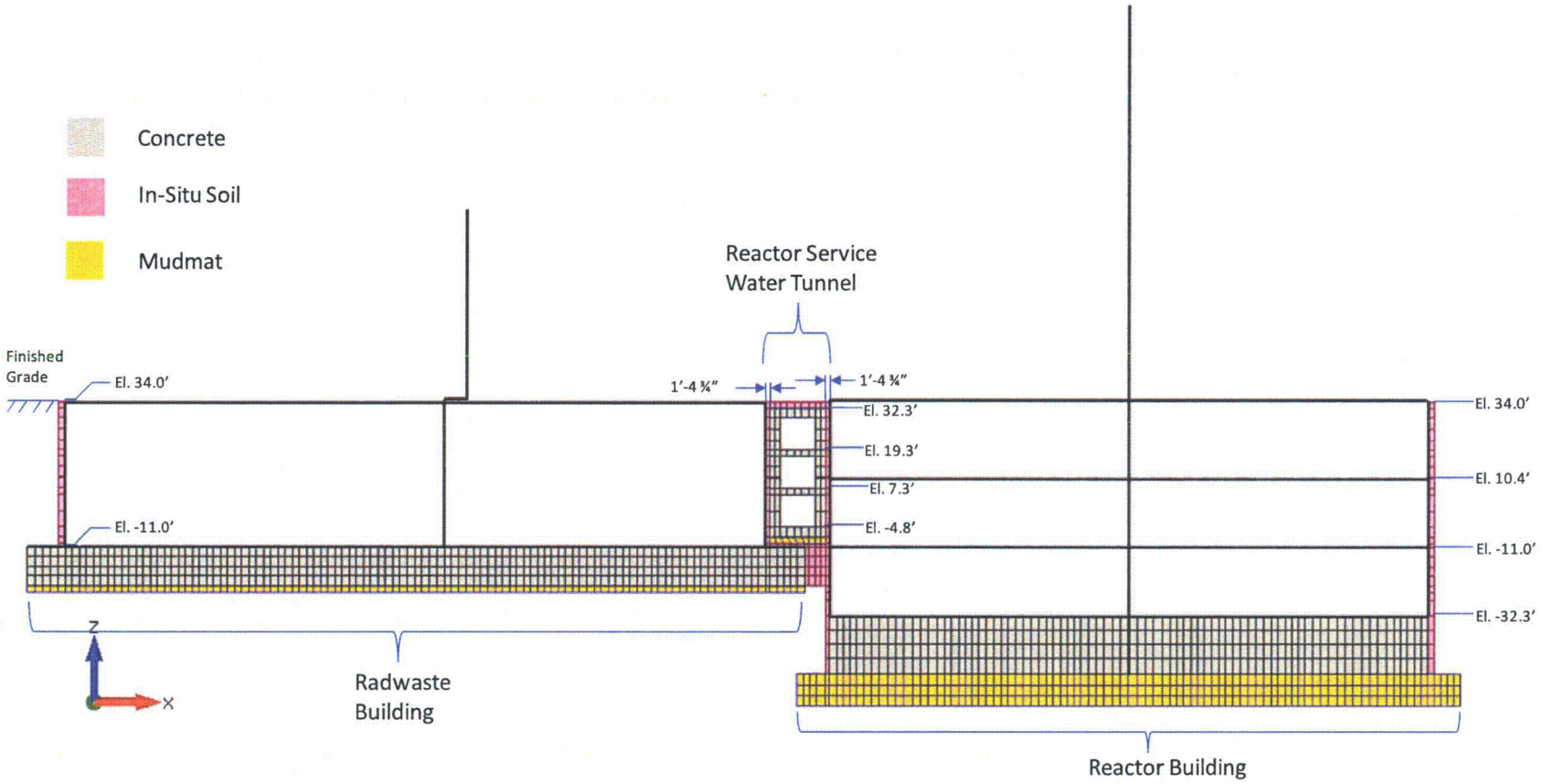
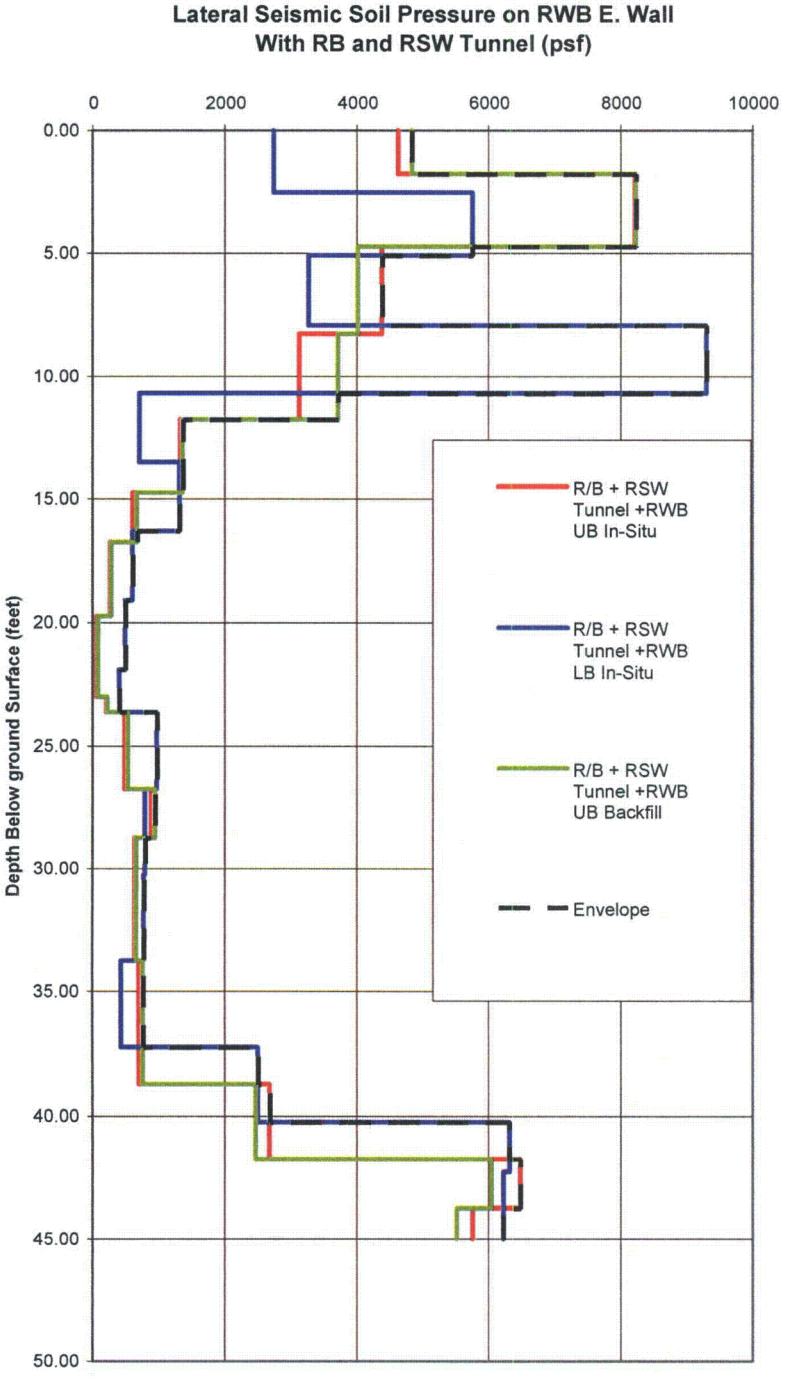
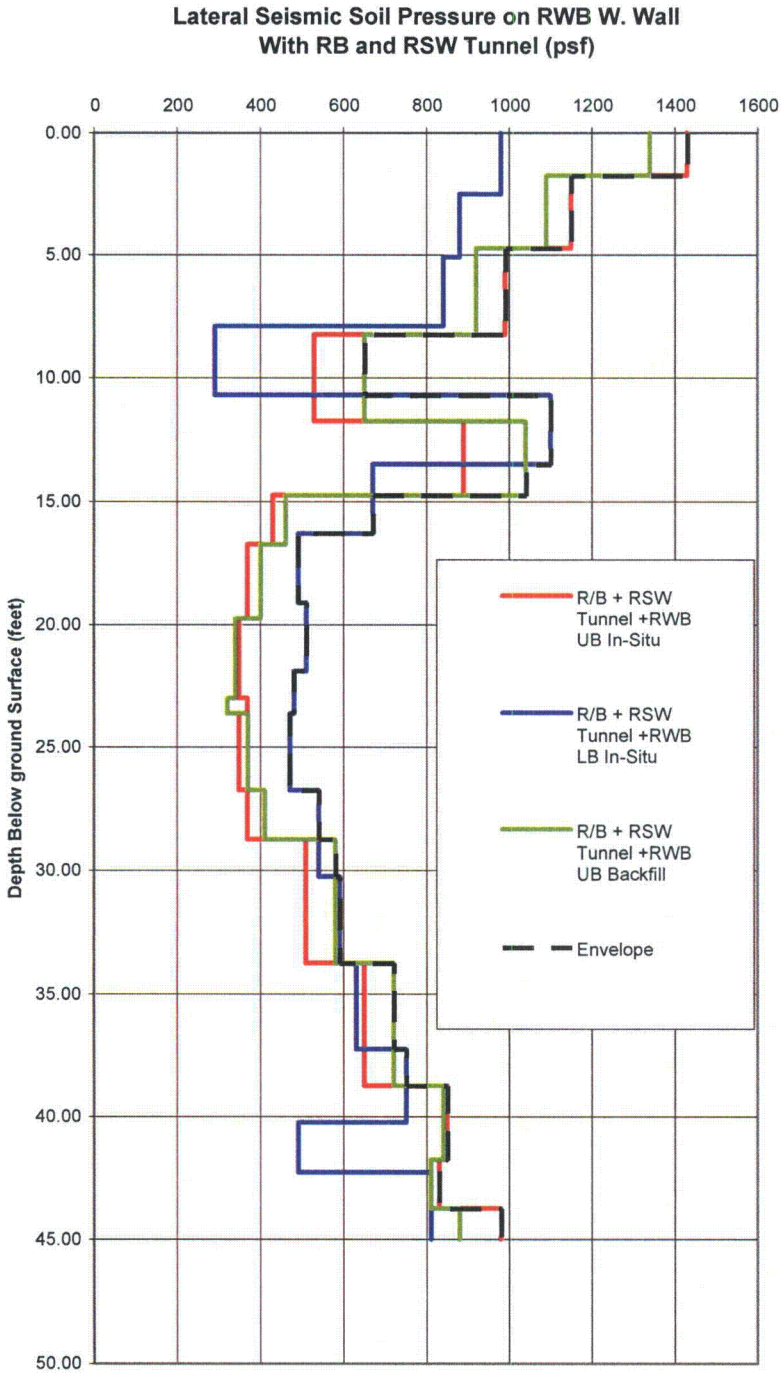


Figure 03.07.01-29 S1.80: SSSI 2D Model of RB + RSW Piping Tunnel + RWB (Section 6 in Figure 03.07.01-29 S1.79)



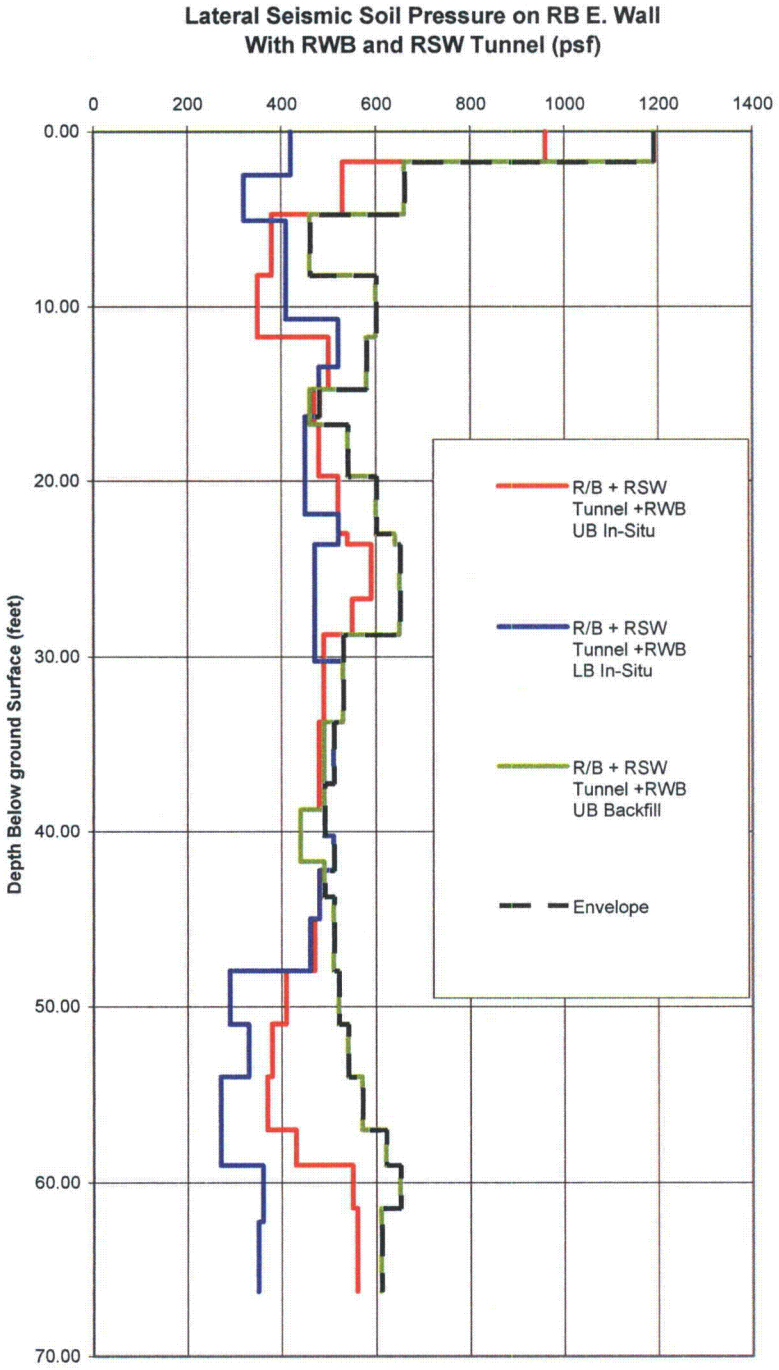
h	Enveloping Pressure (psf)	Critical Soil Case	Percentage Difference (vs. Envelope of UB Backfill and LB In-Situ)
0	4830	UB Backfill	--
1.75	4830	UB Backfill	--
1.75	8230	UB Backfill	--
4.75	8230	UB Backfill	--
4.75	5750	LB In-Situ	--
5.1	5750	LB In-Situ	--
5.1	4380	UB In-Situ	9.23%
7.9	4380	UB In-Situ	9.23%
7.9	9300	LB In-Situ	--
10.7	9300	LB In-Situ	--
10.7	3710	UB Backfill	--
11.75	3710	UB Backfill	--
11.75	1360	UB Backfill	--
14.75	1360	UB Backfill	--
14.75	1310	LB In-Situ	--
16.3	1310	LB In-Situ	--
16.3	670	UB Backfill	--
16.75	670	UB Backfill	--
16.75	600	LB In-Situ	--
19.1	600	LB In-Situ	--
19.1	490	LB In-Situ	--
21.9	490	LB In-Situ	--
21.9	400	LB In-Situ	--
23.62	400	LB In-Situ	--
23.62	970	LB In-Situ	--
26.75	970	LB In-Situ	--
26.75	940	UB Backfill	--
28.75	940	UB Backfill	--
28.75	790	LB In-Situ	--
30.25	790	LB In-Situ	--
30.25	770	LB In-Situ	--
33.75	770	LB In-Situ	--
33.75	760	UB Backfill	--
37.25	760	UB Backfill	--
37.25	2500	LB In-Situ	--
38.75	2500	LB In-Situ	--
38.75	2680	UB In-Situ	7.20%
40.25	2680	UB In-Situ	7.20%
40.25	6310	LB In-Situ	--
41.75	6310	LB In-Situ	--
41.75	6480	UB In-Situ	2.69%
43.75	6480	UB In-Situ	4.18%
43.75	6220	LB In-Situ	--
45	6220	LB In-Situ	--

Figure 03.07.01-29 S1.81: SSSI Soil Pressures and Governing Soil Case, RWB E. Wall



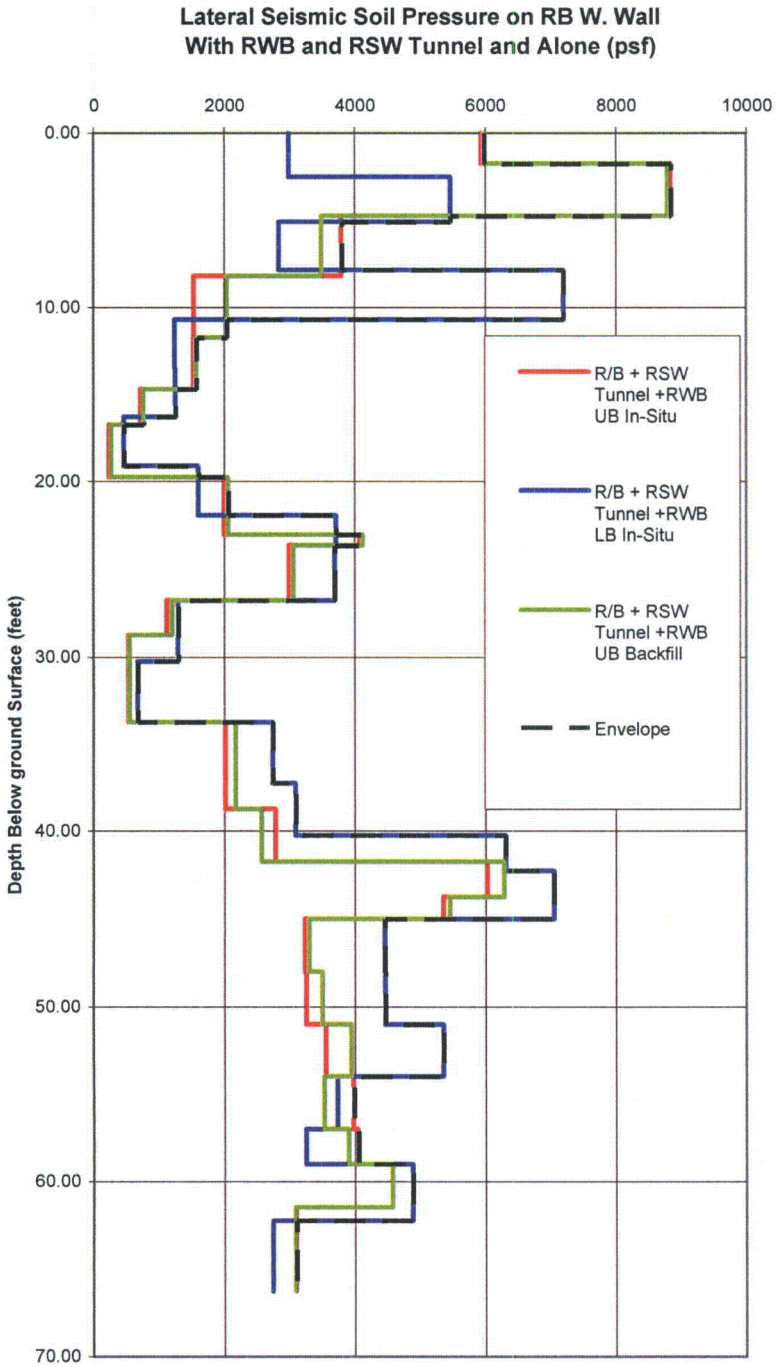
h	Enveloping Pressure (psf)	Critical Soil Case	Percentage Difference (vs. Envelope of UB Backfill and LB In-Situ)
0	1430	UB In-Situ	6.72%
1.75	1430	UB In-Situ	6.72%
1.75	1150	UB In-Situ	5.50%
4.75	1150	UB In-Situ	5.50%
4.75	990	UB In-Situ	7.61%
8.25	990	UB In-Situ	7.61%
8.25	650	UB Backfill	--
10.7	650	UB Backfill	--
10.7	1100	LB In-Situ	--
13.5	1100	LB In-Situ	--
13.5	1040	UB Backfill	--
14.75	1040	UB Backfill	--
14.75	670	LB In-Situ	--
16.3	670	LB In-Situ	--
16.3	490	LB In-Situ	--
19.1	490	LB In-Situ	--
19.1	510	LB In-Situ	--
21.9	510	LB In-Situ	--
21.9	480	LB In-Situ	--
23.62	480	LB In-Situ	--
23.62	470	LB In-Situ	--
26.75	470	LB In-Situ	--
26.75	540	LB In-Situ	--
28.75	540	LB In-Situ	--
28.75	580	UB Backfill	--
30.25	580	UB Backfill	--
30.25	590	LB In-Situ	--
33.75	590	LB In-Situ	--
33.75	720	UB Backfill	--
37.25	720	UB Backfill	--
37.25	750	LB In-Situ	--
38.75	750	LB In-Situ	--
38.75	850	UB In-Situ	1.19%
41.75	850	UB In-Situ	1.19%
41.75	830	UB In-Situ	2.47%
43.75	830	UB In-Situ	2.47%
43.75	980	UB In-Situ	11.36%
45	980	UB In-Situ	11.36%

Figure 03.07.01-29 S1.82: SSSI Soil Pressures and Governing Soil Case, RWB W. Wall



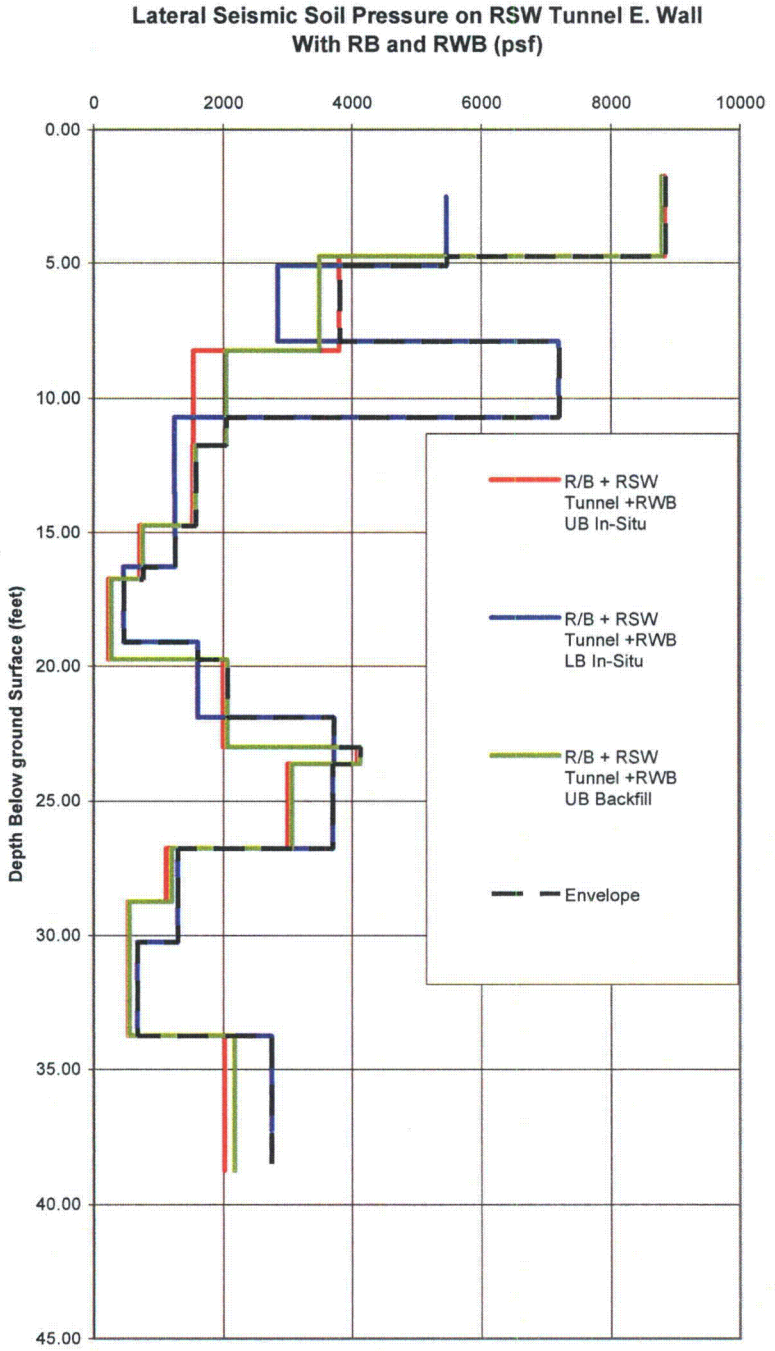
h	Enveloping Pressure (psf)	Critical Soil Case	Percentage Difference (vs. Envelope of UB Backfill and LB In-Situ)
0	1190	UB Backfill	--
1.75	1190	UB Backfill	--
1.75	660	UB Backfill	--
4.75	660	UB Backfill	--
4.75	460	UB Backfill	--
8.25	460	UB Backfill	--
8.25	600	UB Backfill	--
11.75	600	UB Backfill	--
11.75	580	UB Backfill	--
14.75	580	UB Backfill	--
14.75	480	LB In-Situ	--
16.3	480	LB In-Situ	--
16.3	470	UB In-Situ	2.17%
16.75	470	UB In-Situ	2.17%
16.75	540	UB Backfill	--
19.75	540	UB Backfill	--
19.75	600	UB Backfill	--
23	600	UB Backfill	--
23	640	UB Backfill	--
23.62	640	UB Backfill	--
23.62	650	UB Backfill	--
28.75	650	UB Backfill	--
28.75	530	UB Backfill	--
33.75	530	UB Backfill	--
33.75	510	LB In-Situ	--
37.25	510	LB In-Situ	--
37.25	490	LB In-Situ	--
40.25	490	LB In-Situ	--
40.25	510	LB In-Situ	--
42.25	510	LB In-Situ	--
42.25	490	UB Backfill	--
43.75	490	UB Backfill	--
43.75	510	UB Backfill	--
48	510	UB Backfill	--
48	520	UB Backfill	--
51	520	UB Backfill	--
51	540	UB Backfill	--
54	540	UB Backfill	--
54	570	UB Backfill	--
57	570	UB Backfill	--
57	620	UB Backfill	--
59	620	UB Backfill	--
59	650	UB Backfill	--
61.5	650	UB Backfill	--
61.5	610	UB Backfill	--
66.27	610	UB Backfill	--

Figure 03.07.01-29 S1.83: SSSI Soil Pressures and Governing Soil Case, RB E. Wall



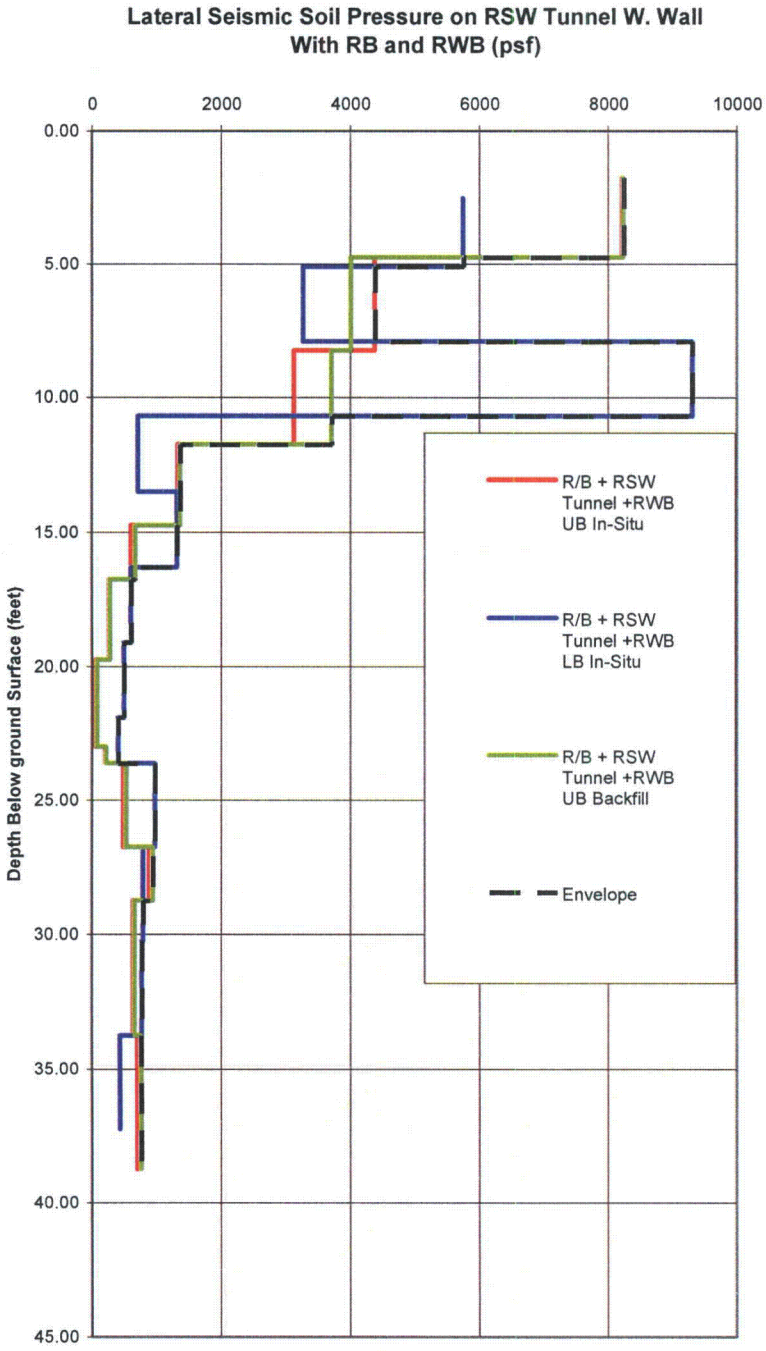
h	Enveloping Pressure (psf)	Critical Soil Case	Percentage Difference (vs. Envelope of UB Backfill and LB In-Situ)
0	5980	UB Backfill	--
1.75	5980	UB Backfill	--
1.75	8840	UB In-Situ	0.57%
4.75	8840	UB In-Situ	0.57%
4.75	5460	LB In-Situ	--
5.1	5460	LB In-Situ	--
5.1	3800	UB In-Situ	8.88%
7.9	3800	UB In-Situ	8.88%
7.9	7190	LB In-Situ	--
10.7	7190	LB In-Situ	--
10.7	2040	UB Backfill	--
11.75	2040	UB Backfill	--
11.75	1570	UB Backfill	--
14.75	1570	UB Backfill	--
14.75	1250	LB In-Situ	--
16.3	1250	LB In-Situ	--
16.3	760	UB Backfill	--
16.75	760	UB Backfill	--
16.75	460	LB In-Situ	--
19.1	460	LB In-Situ	--
19.1	1600	LB In-Situ	--
19.75	1600	LB In-Situ	--
19.75	2060	UB Backfill	--
21.9	2060	UB Backfill	--
21.9	3710	LB In-Situ	--
23	3710	LB In-Situ	--
23	4120	UB Backfill	--
23.62	4120	UB Backfill	--
23.62	3690	LB In-Situ	--
26.75	3690	LB In-Situ	--
26.75	1290	LB In-Situ	--
30.25	1290	LB In-Situ	--
30.25	670	LB In-Situ	--
33.75	670	LB In-Situ	--
33.75	2740	LB In-Situ	--
37.25	2740	LB In-Situ	--
37.25	3090	LB In-Situ	--
40.25	3090	LB In-Situ	--
40.25	6300	LB In-Situ	--
42.25	6300	LB In-Situ	--
42.25	7040	LB In-Situ	--
45	7040	LB In-Situ	--
45	4450	LB In-Situ	--
48	4450	LB In-Situ	--
48	4460	LB In-Situ	--
51	4460	LB In-Situ	--
51	5350	LB In-Situ	--
54	5350	LB In-Situ	--
54	3980	UB In-Situ	6.70%
57	3980	UB In-Situ	6.70%
57	4050	UB In-Situ	3.85%
59	4050	UB In-Situ	3.85%
59	4880	LB In-Situ	--
62.27	4880	LB In-Situ	--
62.27	3100	UB In-Situ	0.32%
66.27	3100	UB In-Situ	0.32%

Figure 03.07.01-29 S1.84: SSSI Soil Pressures and Governing Soil Case, RB W. Wall



h	Enveloping Pressure (psf)	Critical Soil Case	Percentage Difference (vs. Envelope of UB Backfill and LB In-Situ)
1.75	8840	UB In-Situ	0.57%
4.75	8840	UB In-Situ	0.57%
4.75	5460	LB In-Situ	--
5.1	5460	LB In-Situ	--
5.1	3800	UB In-Situ	8.88%
7.9	3800	UB In-Situ	8.88%
7.9	7190	LB In-Situ	--
10.7	7190	LB In-Situ	--
10.7	2040	UB Backfill	--
11.75	2040	UB Backfill	--
11.75	1570	UB Backfill	--
14.75	1570	UB Backfill	--
14.75	1250	LB In-Situ	--
16.3	1250	LB In-Situ	--
16.3	760	UB Backfill	--
16.75	760	UB Backfill	--
16.75	460	LB In-Situ	--
19.1	460	LB In-Situ	--
19.1	1600	LB In-Situ	--
19.75	1600	LB In-Situ	--
19.75	2060	UB Backfill	--
21.9	2060	UB Backfill	--
21.9	3710	LB In-Situ	--
23	3710	LB In-Situ	--
23	4120	UB Backfill	--
23.62	4120	UB Backfill	--
23.62	3690	LB In-Situ	--
26.75	3690	LB In-Situ	--
26.75	1290	LB In-Situ	--
30.25	1290	LB In-Situ	--
30.25	670	LB In-Situ	--
33.75	670	LB In-Situ	--
33.75	2740	LB In-Situ	--
38.75	2740	LB In-Situ	--

Figure 03.07.01-29 S1.85: SSSI Soil Pressures and Governing Soil Case, RSW Tunnels E. Wall



h	Enveloping Pressure (psf)	Critical Soil Case	Percentage Difference (vs. Envelope of UB Backfill and LB In-Situ)
1.75	8230	UB Backfill	--
4.75	8230	UB Backfill	--
4.75	5750	LB In-Situ	--
5.1	5750	LB In-Situ	--
5.1	4380	UB In-Situ	9.23%
7.9	4380	UB In-Situ	9.23%
7.9	9300	LB In-Situ	--
10.7	9300	LB In-Situ	--
10.7	3710	UB Backfill	--
11.75	3710	UB Backfill	--
11.75	1360	UB Backfill	--
14.75	1360	UB Backfill	--
14.75	1310	LB In-Situ	--
16.3	1310	LB In-Situ	--
16.3	670	UB Backfill	--
16.75	670	UB Backfill	--
16.75	600	LB In-Situ	--
19.1	600	LB In-Situ	--
19.1	490	LB In-Situ	--
21.9	490	LB In-Situ	--
21.9	400	LB In-Situ	--
23.62	400	LB In-Situ	--
23.62	970	LB In-Situ	--
26.75	970	LB In-Situ	--
26.75	940	UB Backfill	--
28.75	940	UB Backfill	--
28.75	790	LB In-Situ	--
30.25	790	LB In-Situ	--
30.25	770	LB In-Situ	--
33.75	770	LB In-Situ	--
33.75	760	UB Backfill	--
38.75	760	UB Backfill	--

Figure 03.07.01-29 S1.86: SSSI Soil Pressures and Governing Soil Case, RSW Tunnel W. Wall

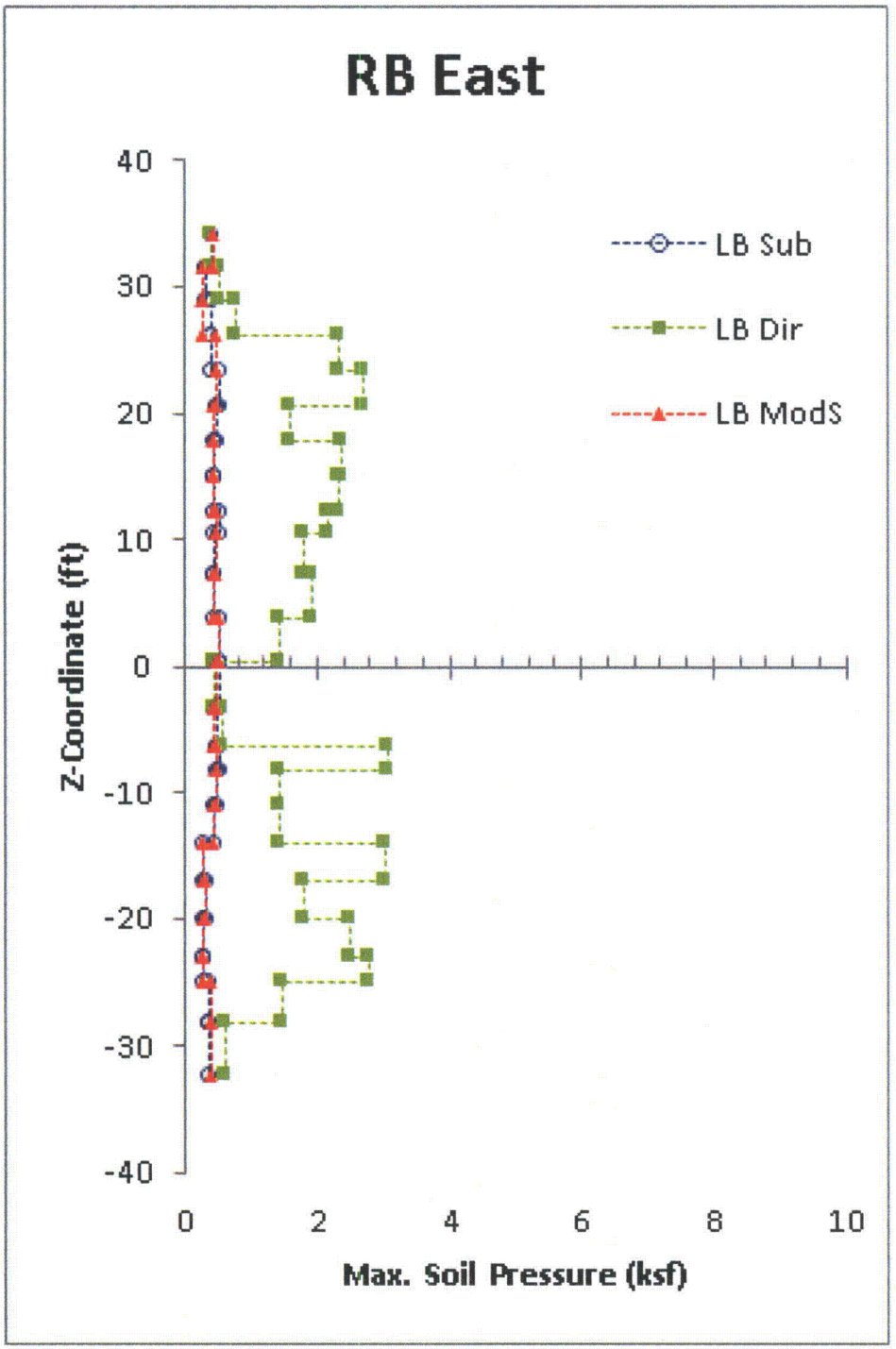


Figure 03.07.01-29 S1.87: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RB East Wall, Lower Bound In-Situ

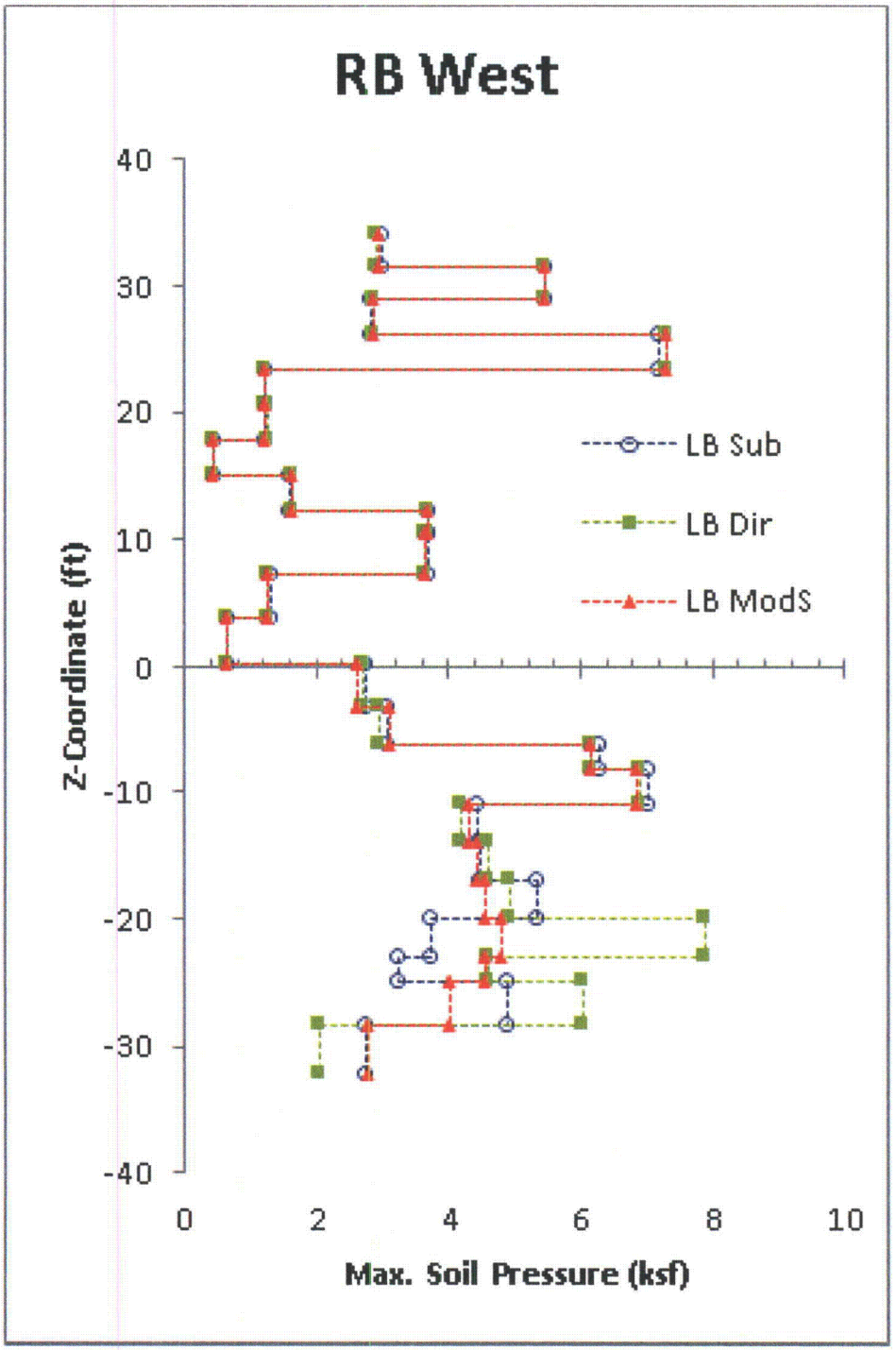


Figure 03.07.01-29 S1.88: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RB West Wall, Lower Bound In-Situ

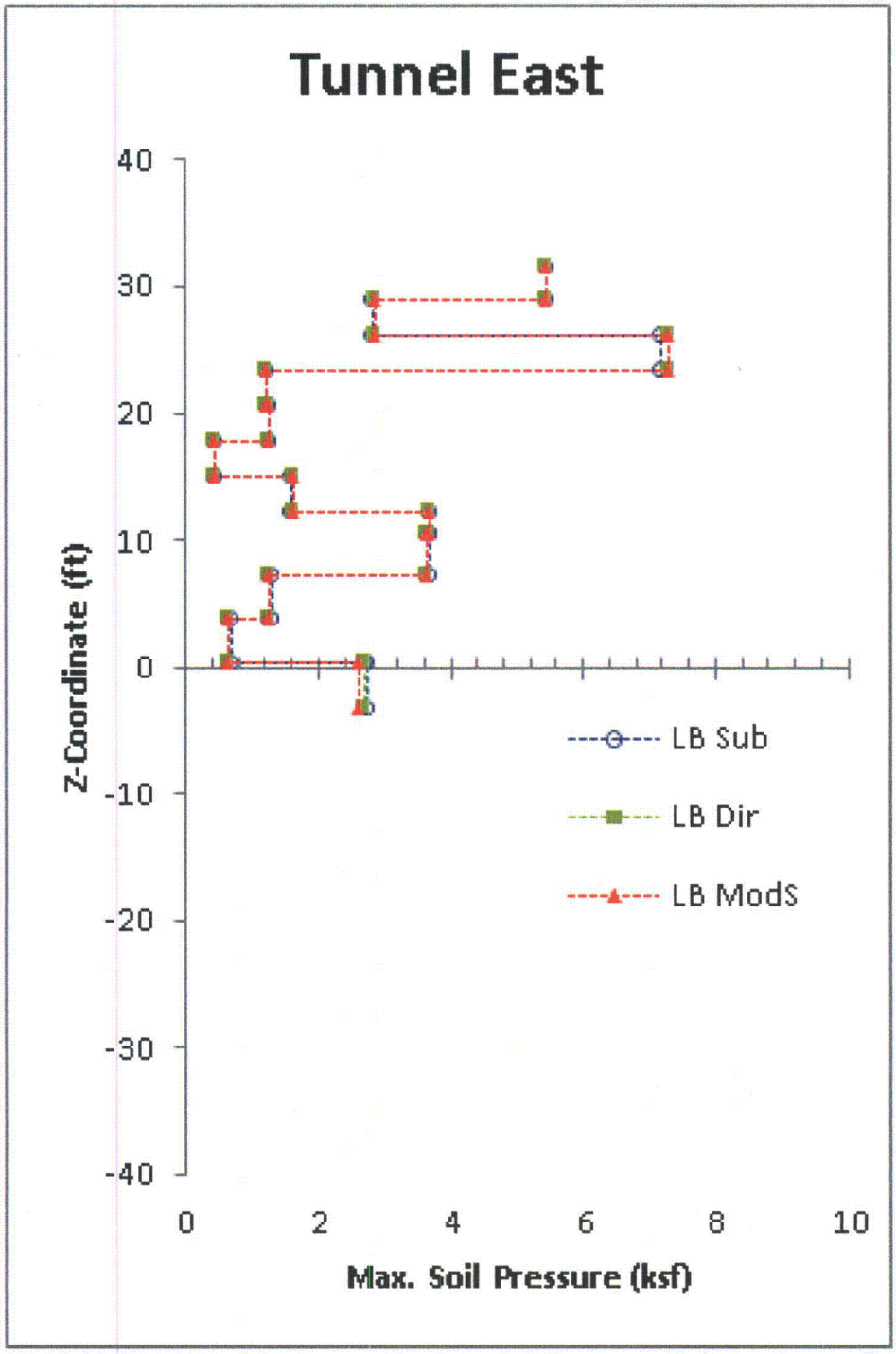


Figure 03.07.01-29 S1.89: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel East Wall, Lower Bound In-Situ

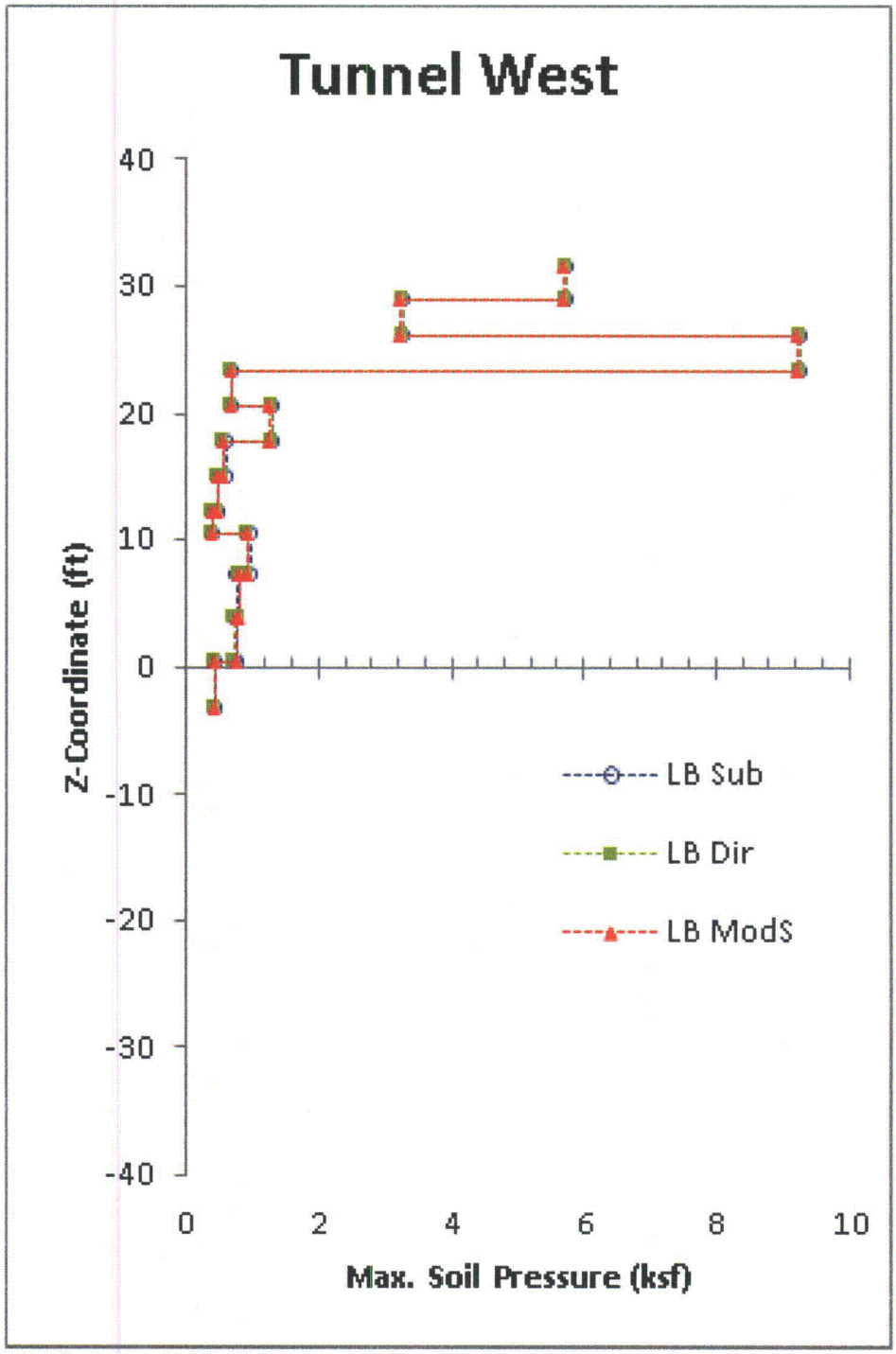


Figure 03.07.01-29 S1.90: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RSW Tunnel West Wall, Lower Bound In-Situ

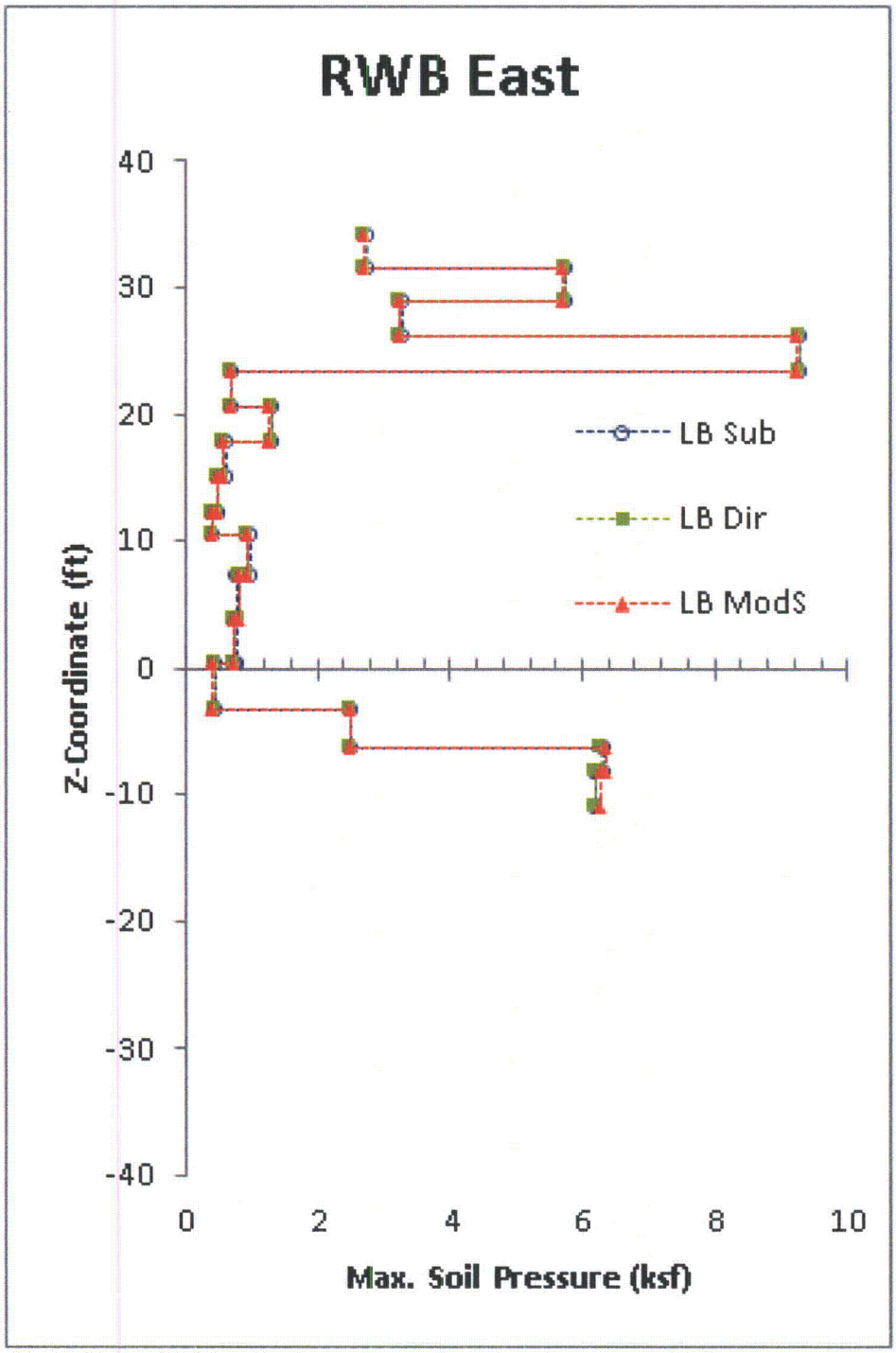


Figure 03.07.01-29 S1.91: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RWB East Wall, Lower Bound In-Situ

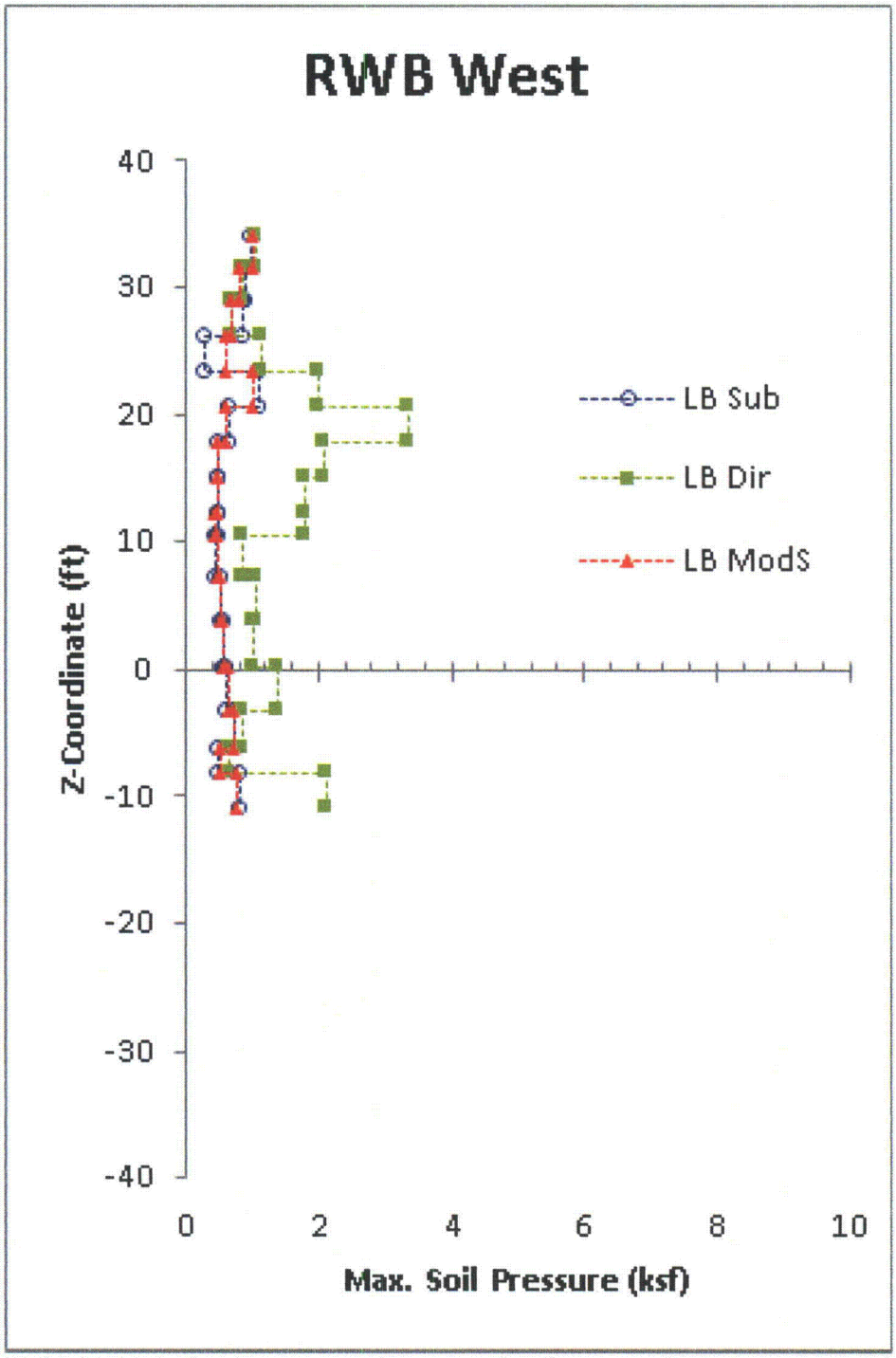
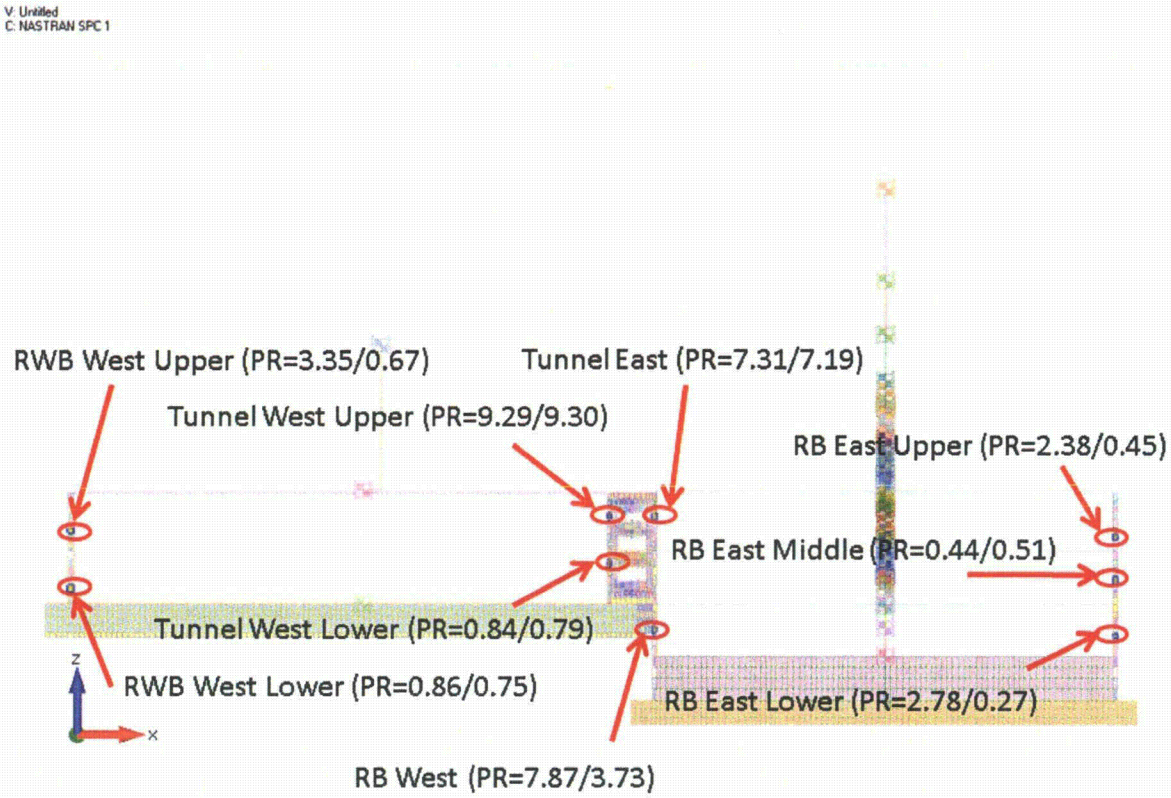


Figure 03.07.01-29 S1.92: Maximum Absolute Soil Pressure (Subtraction vs. Direct vs. Modified Subtraction), RWB West Wall, Lower Bound In-Situ



Note: PR is the pressure ratio of maximum soil pressures of DM vs SM

Figure 03.07.01-29 S1.93 –Locations of Selected Soil Elements

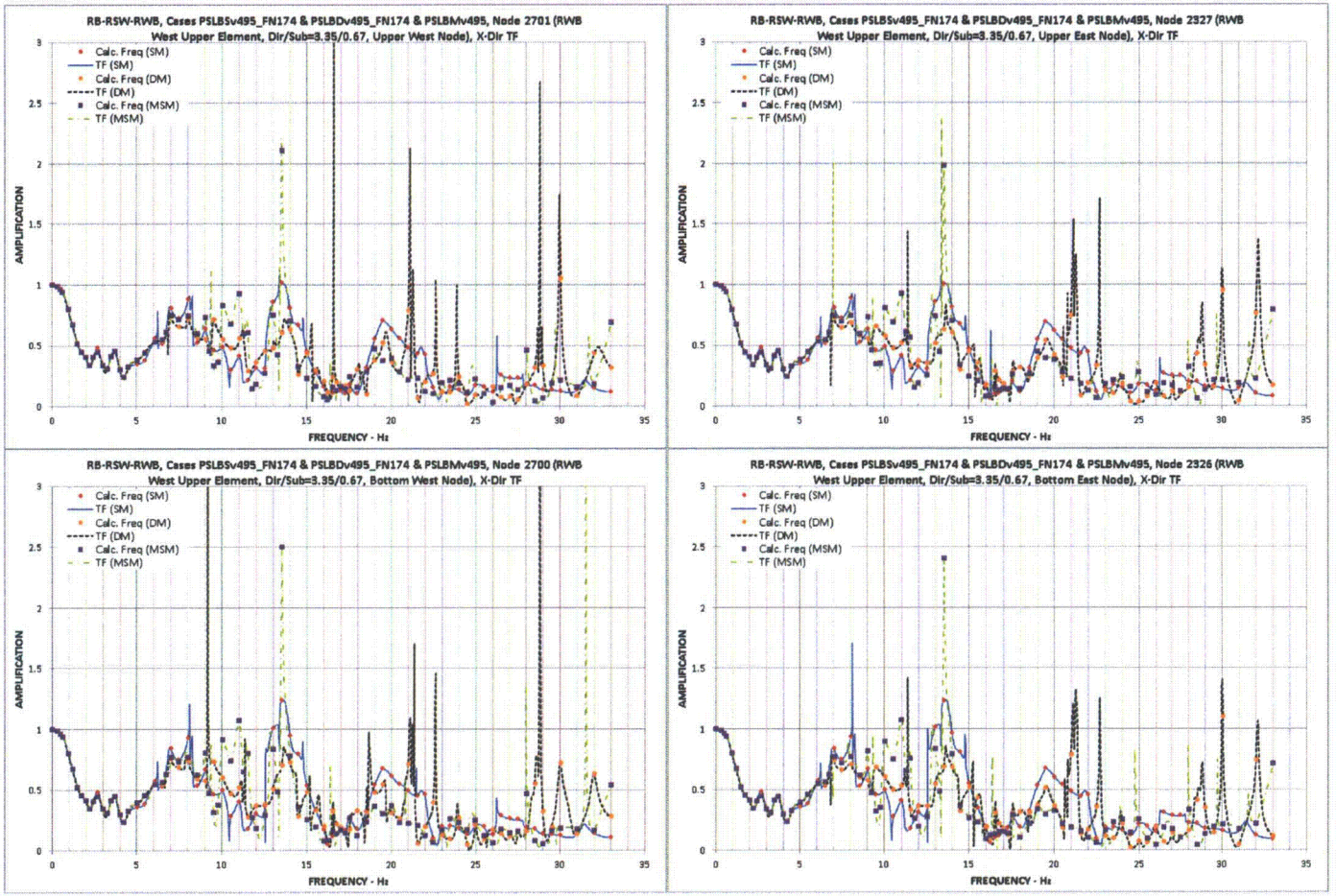


Figure 03.07.01-29 S1.94 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Upper, Dir/Sub Max Stress Ratio = 3.35/0.67, X-Dir

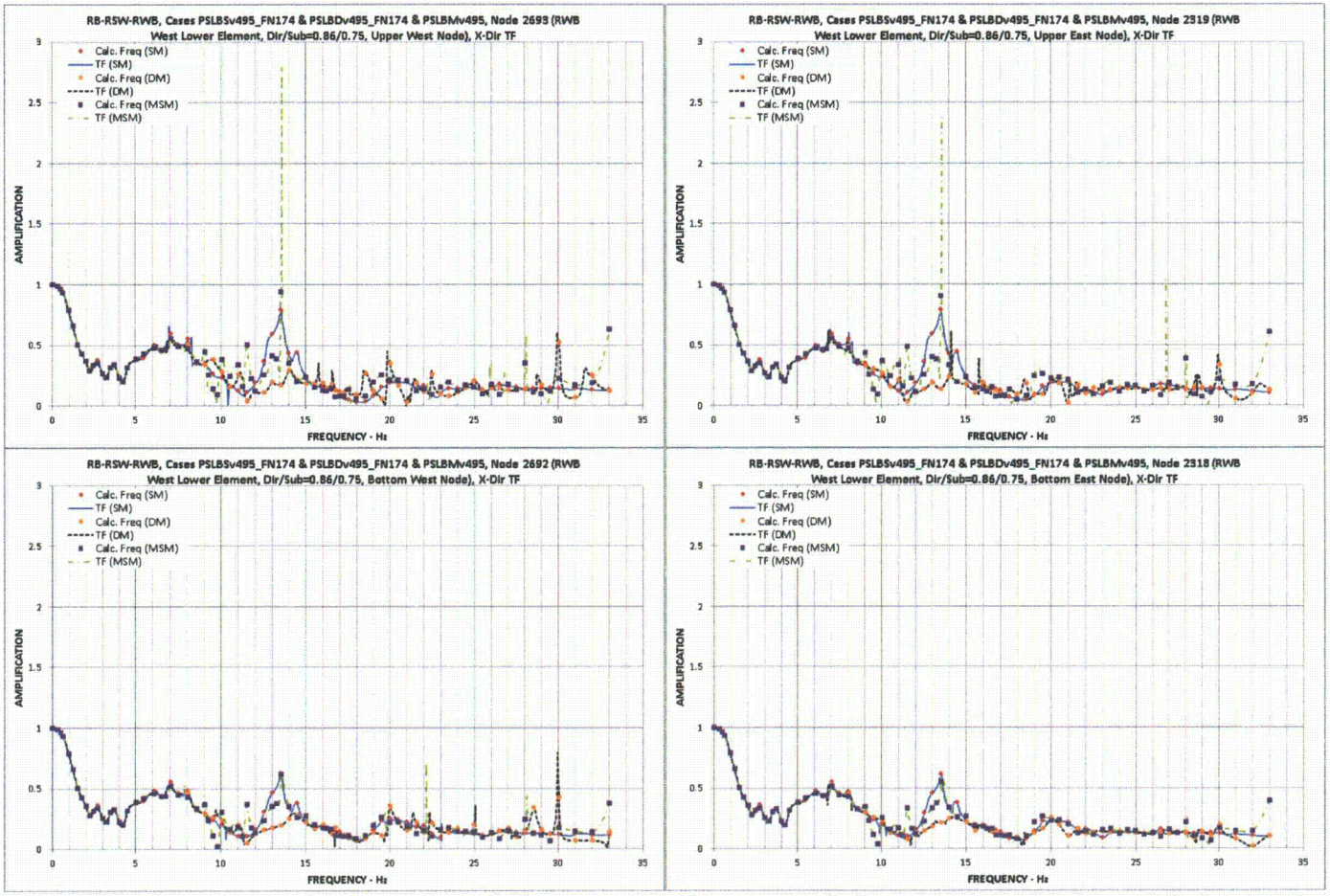


Figure 03.07.01-29 S1.95 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Lower, Dir/Sub Max Stress Ratio = 0.86/0.75, X-Dir

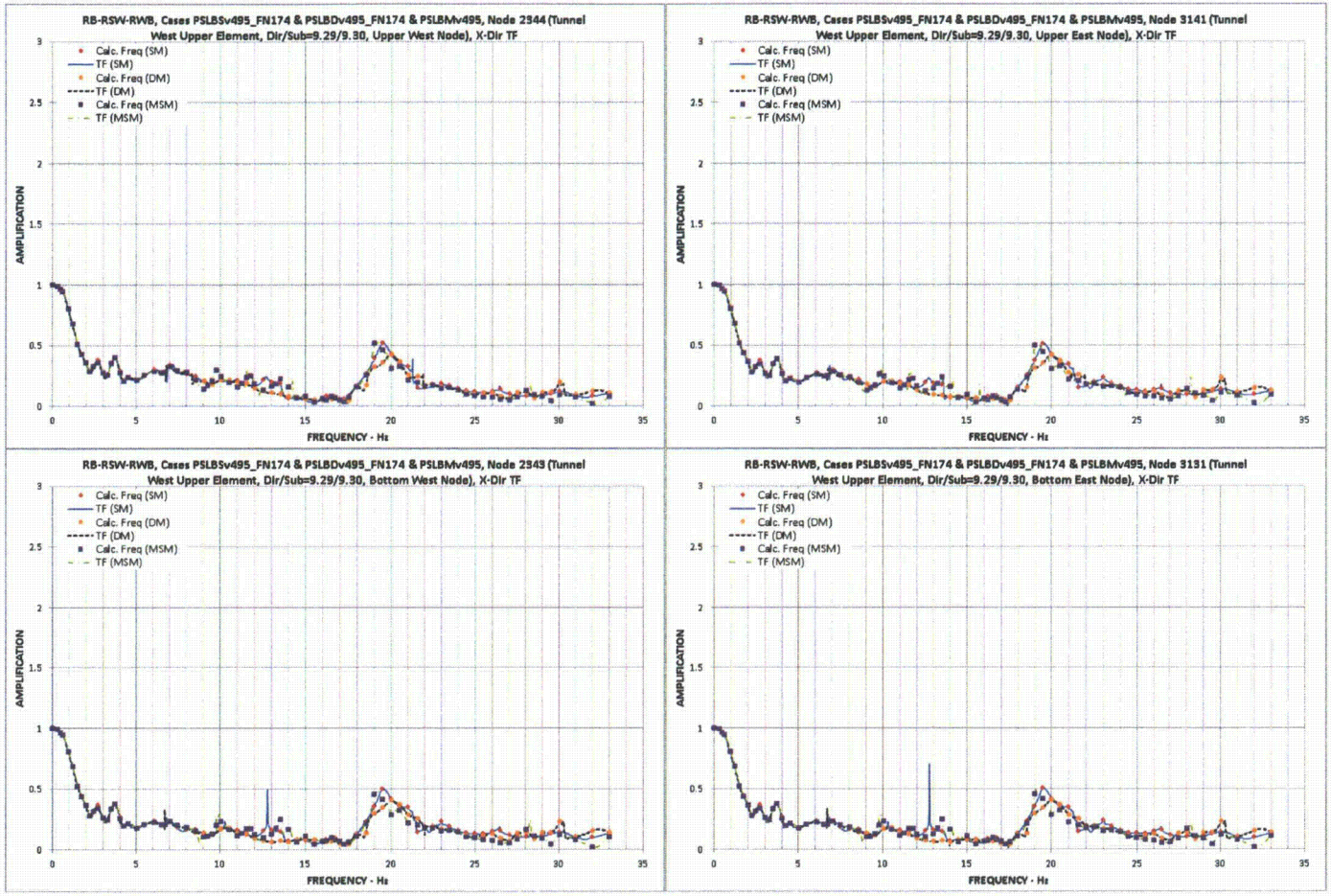


Figure 03.07.01-29 S1.96 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Upper, Dir/Sub Max Stress Ratio = 9.29/9.30, X-Dir

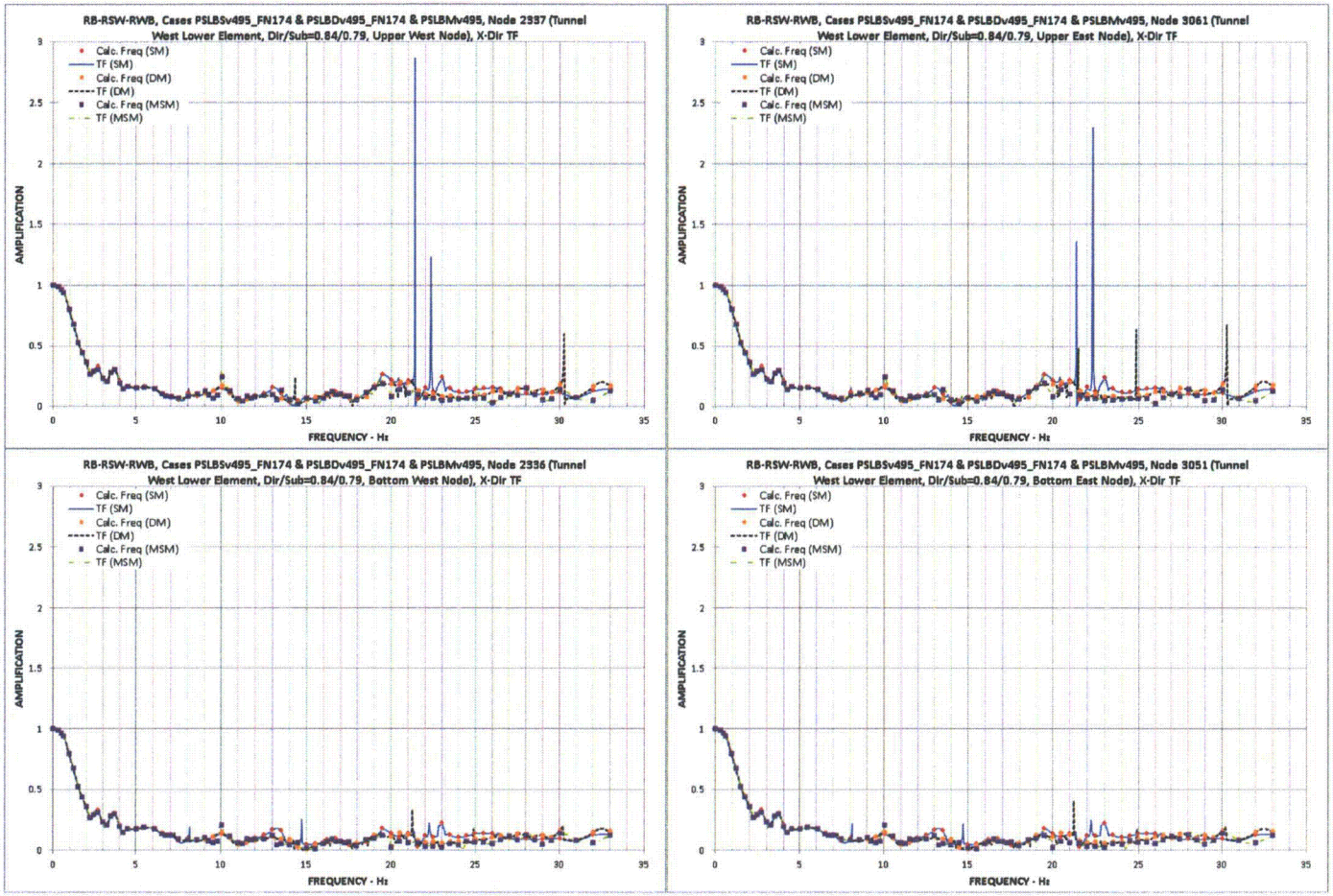


Figure 03.07.01-29 S1.97 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel West Lower, Dir/Sub Max Stress Ratio = 0.84/0.79, X-Dir

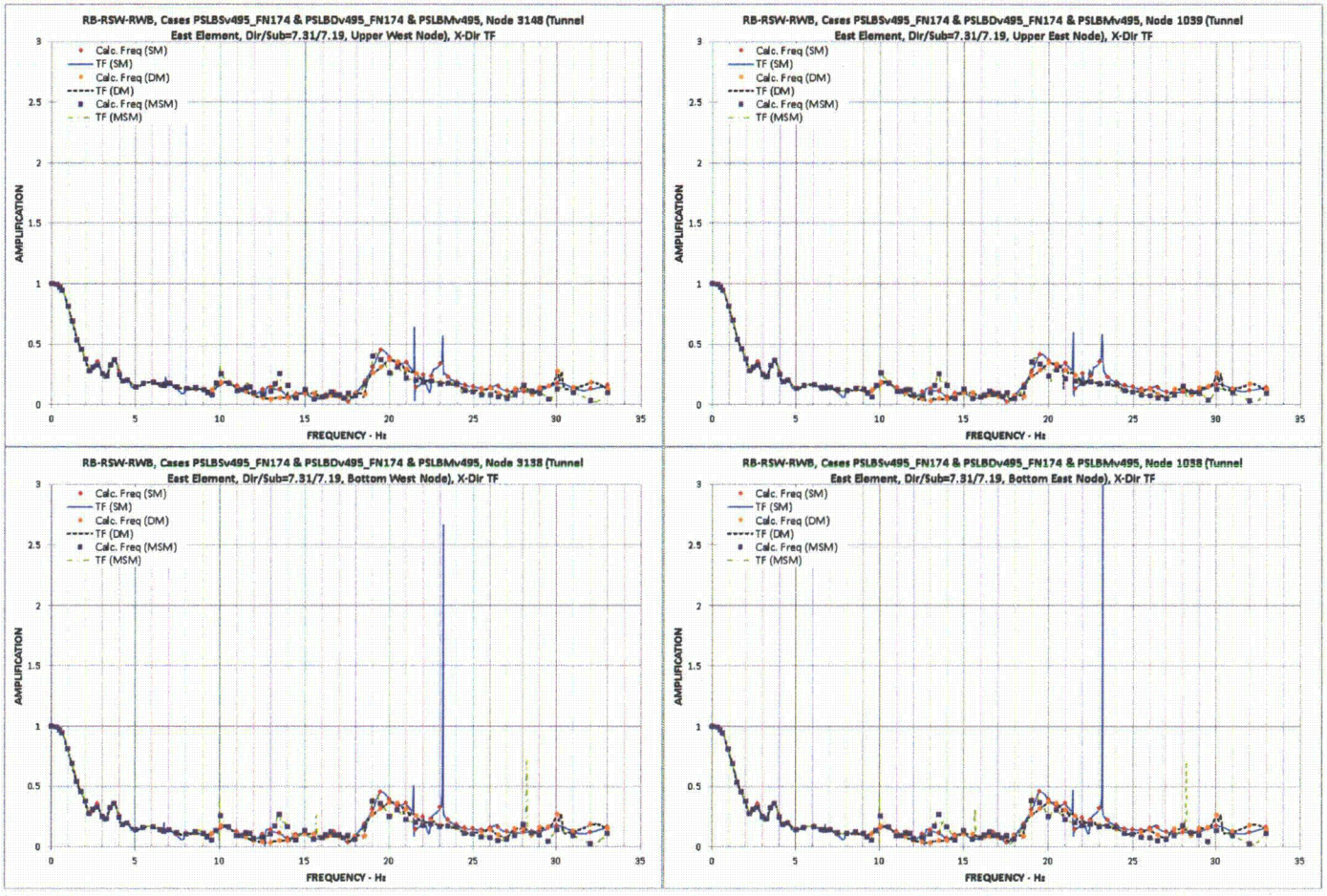


Figure 03.07.01-29 S1.98 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near Tunnel East, Dir/Sub Max Stress Ratio = 7.31/7.19, X-Dir

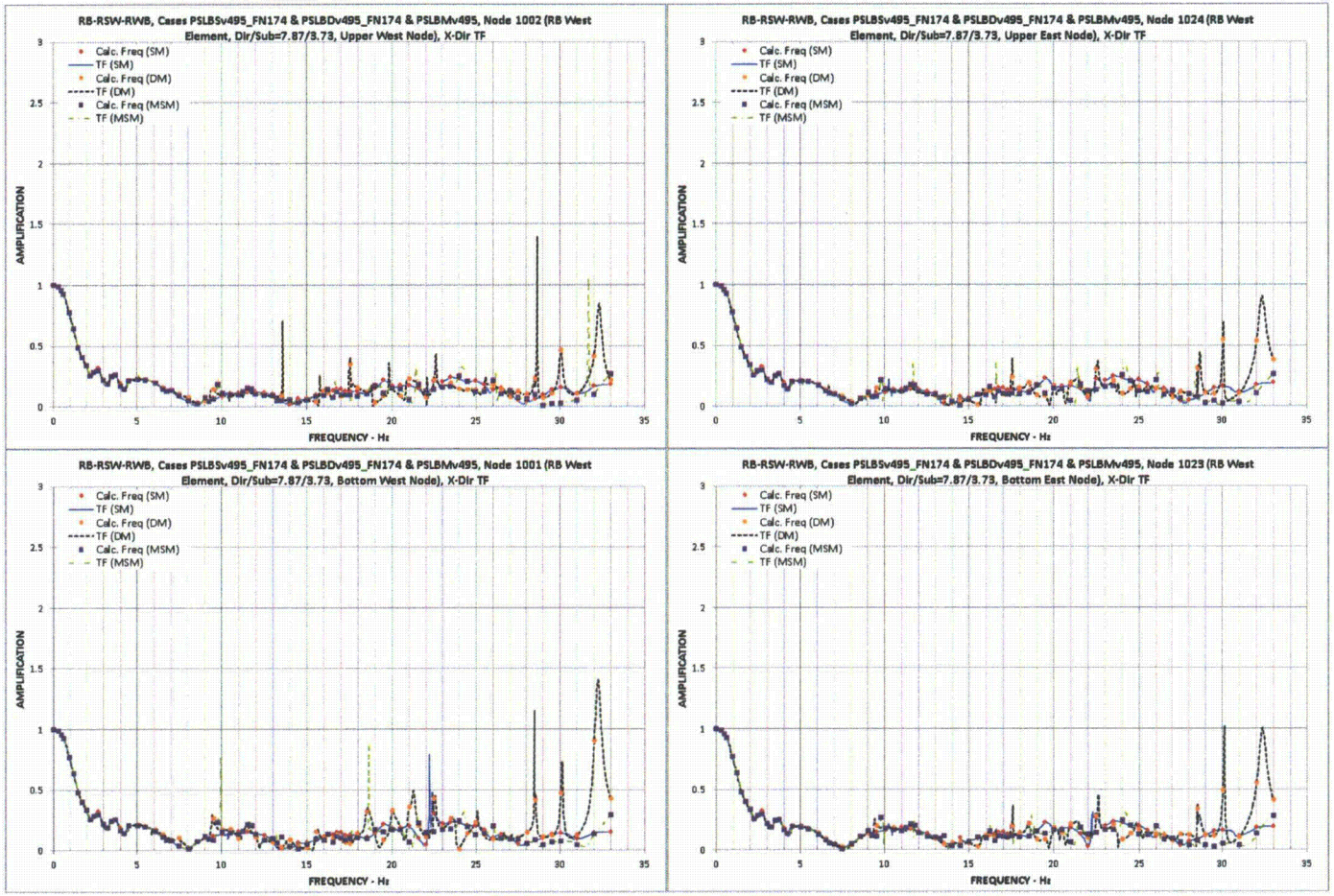


Figure 03.07.01-29 S1.99 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB West, Dir/Sub Max Stress Ratio = 7.87/3.73, X-Dir

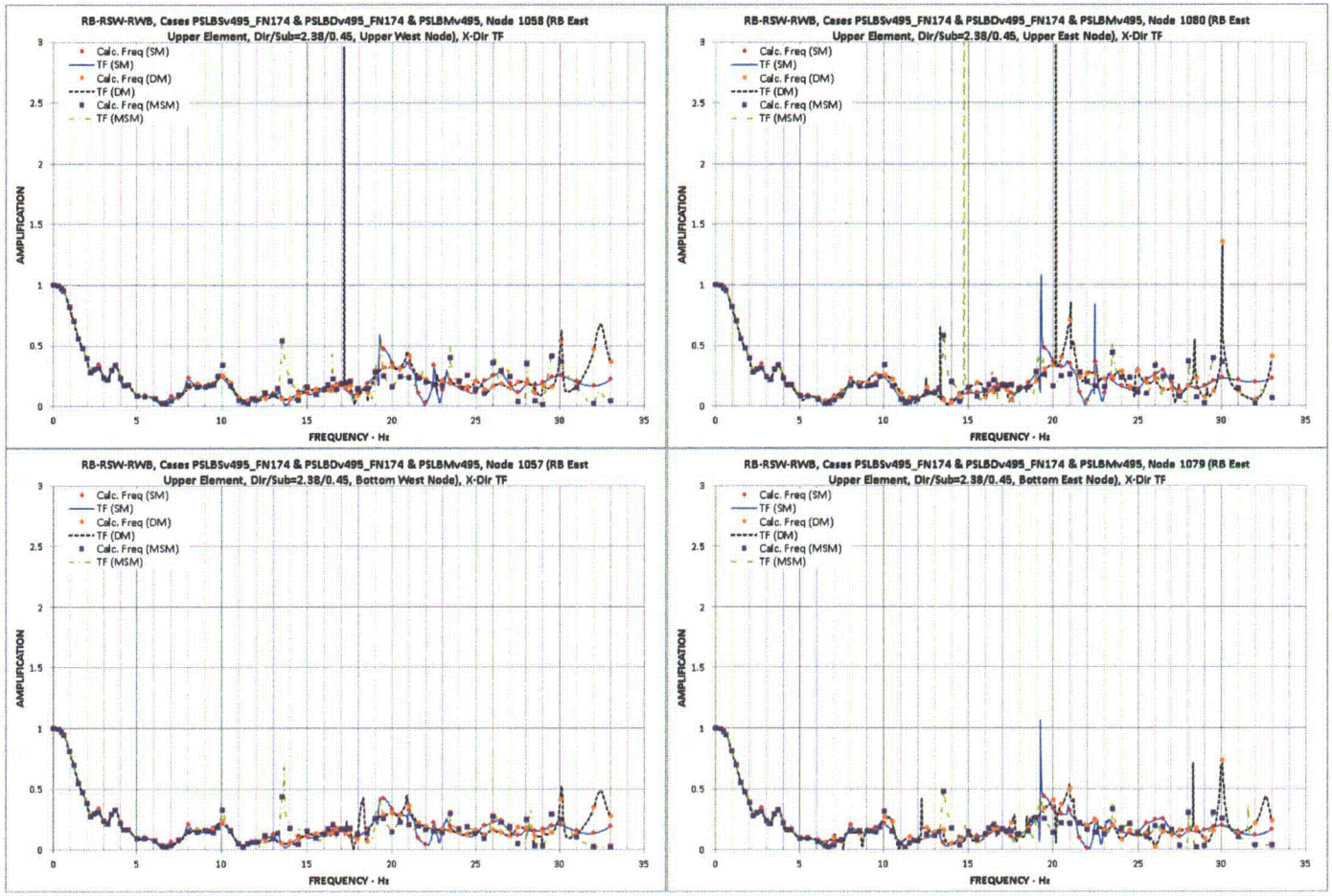


Figure 03.07.01-29 S1.100 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Upper, Dir/Sub Max Stress Ratio = 2.38/0.45, X-Dir

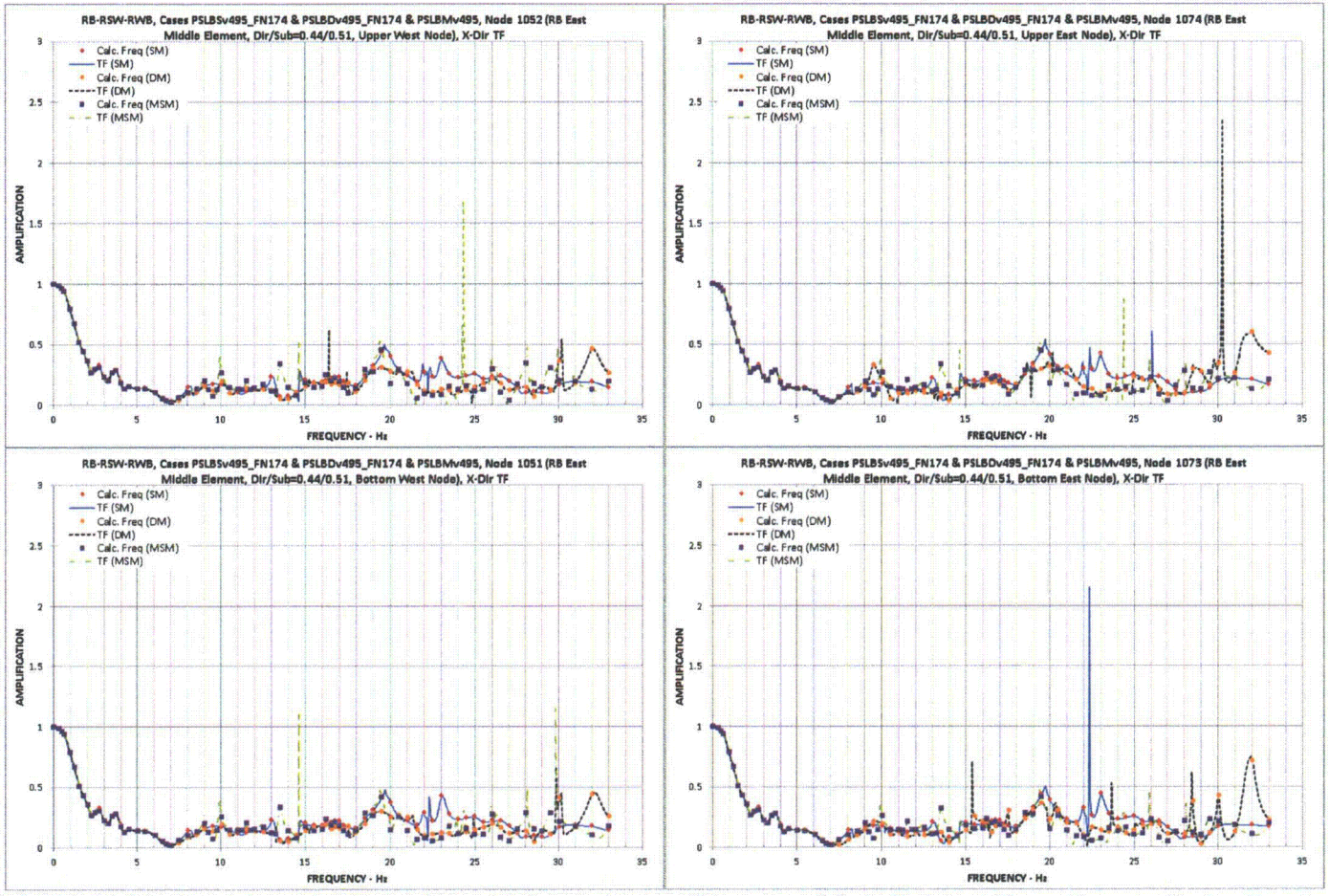


Figure 03.07.01-29 S1.101 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Middle, Dir/Sub Max Stress Ratio = 0.44/0.51, X-Dir

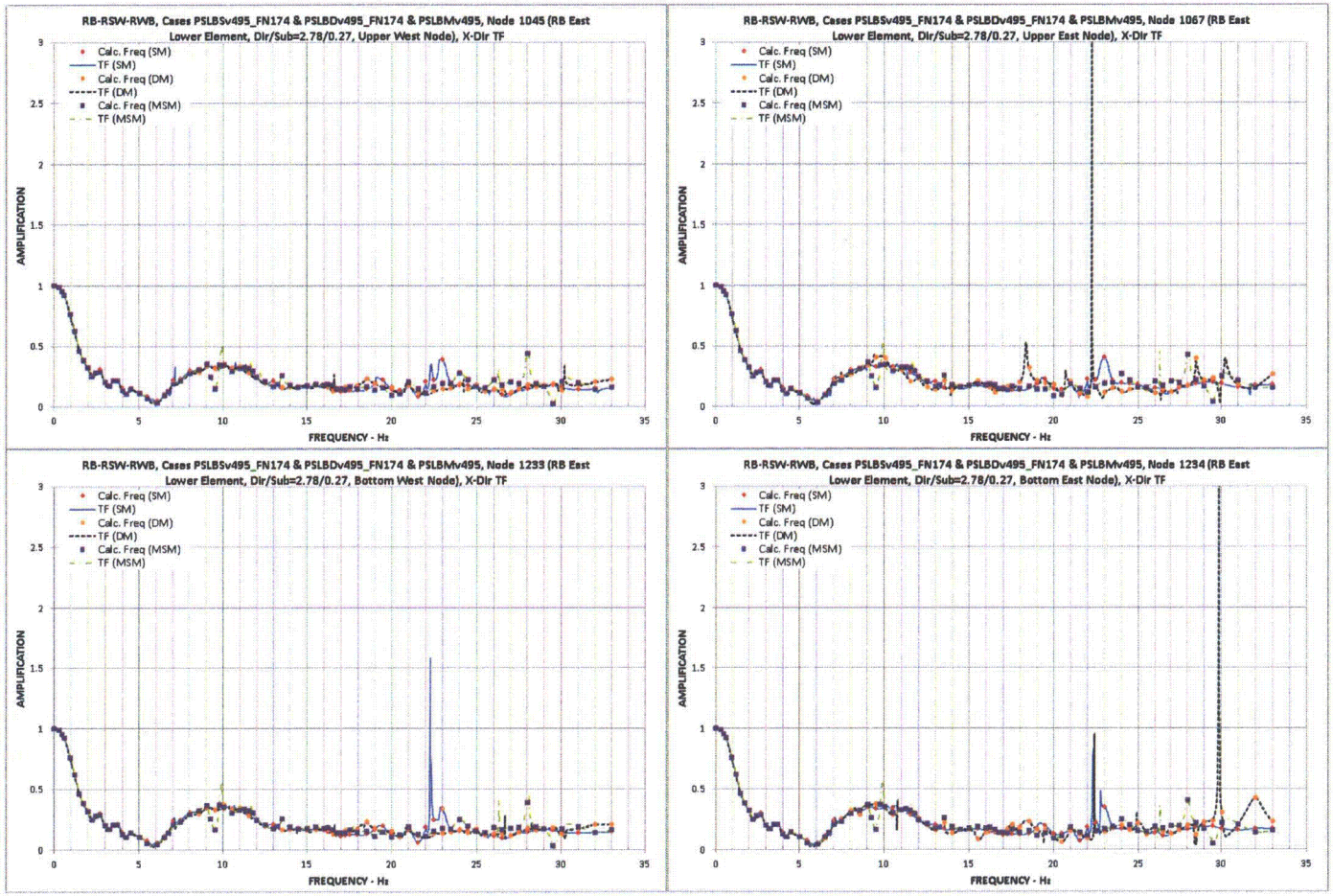


Figure 03.07.01-29 S1.102- Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RB East Lower, Dir/Sub Max Stress Ratio = 2.78/0.27, X-Dir

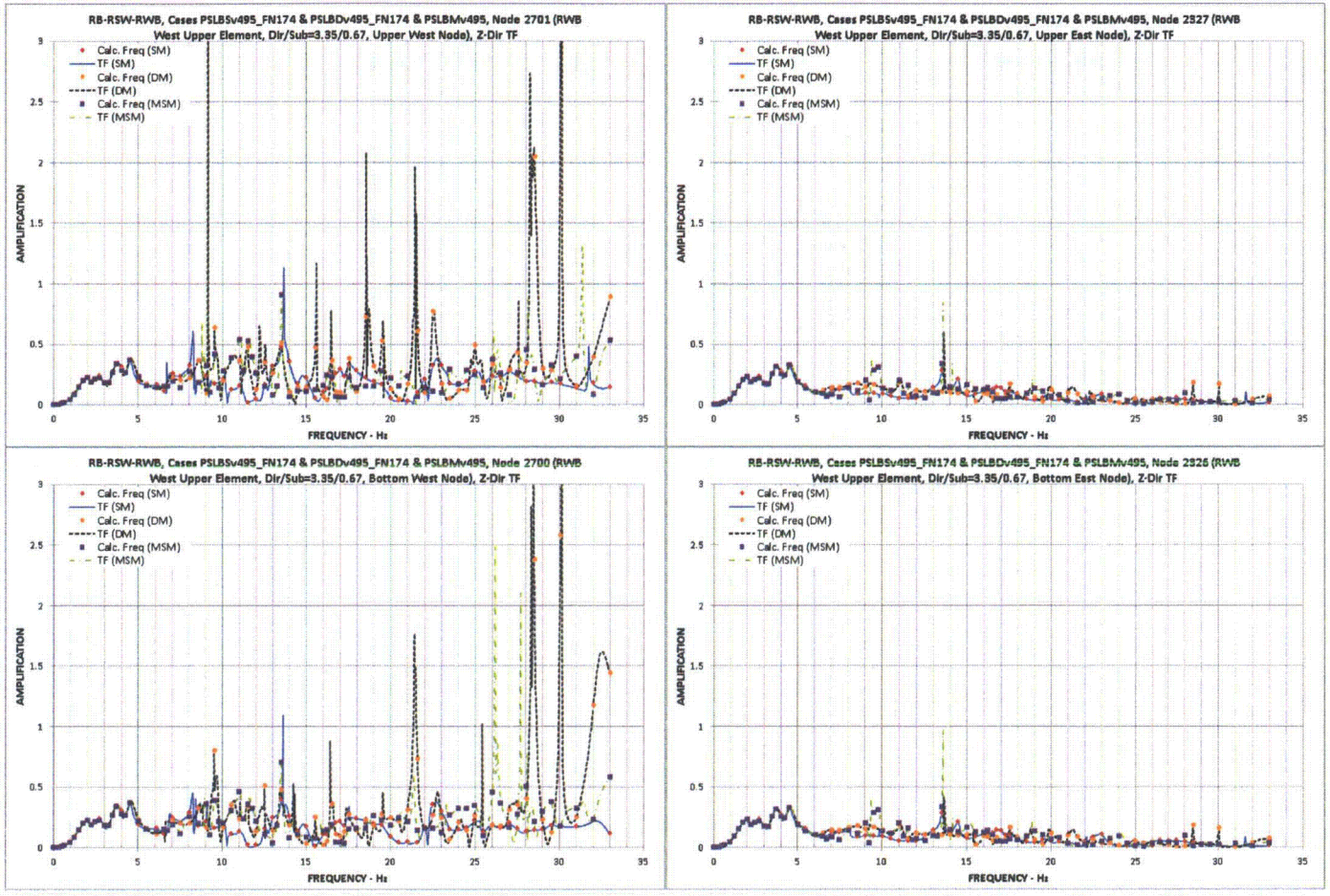


Figure 03.07.01-29 S1.103 - Transfer Functions (Subtraction vs. Direct vs. Mod. Sub.) of Four Corner Nodes for the Element near RWB West Upper, Dir/Sub Max Stress Ratio = 3.35/0.67, Z-Dir