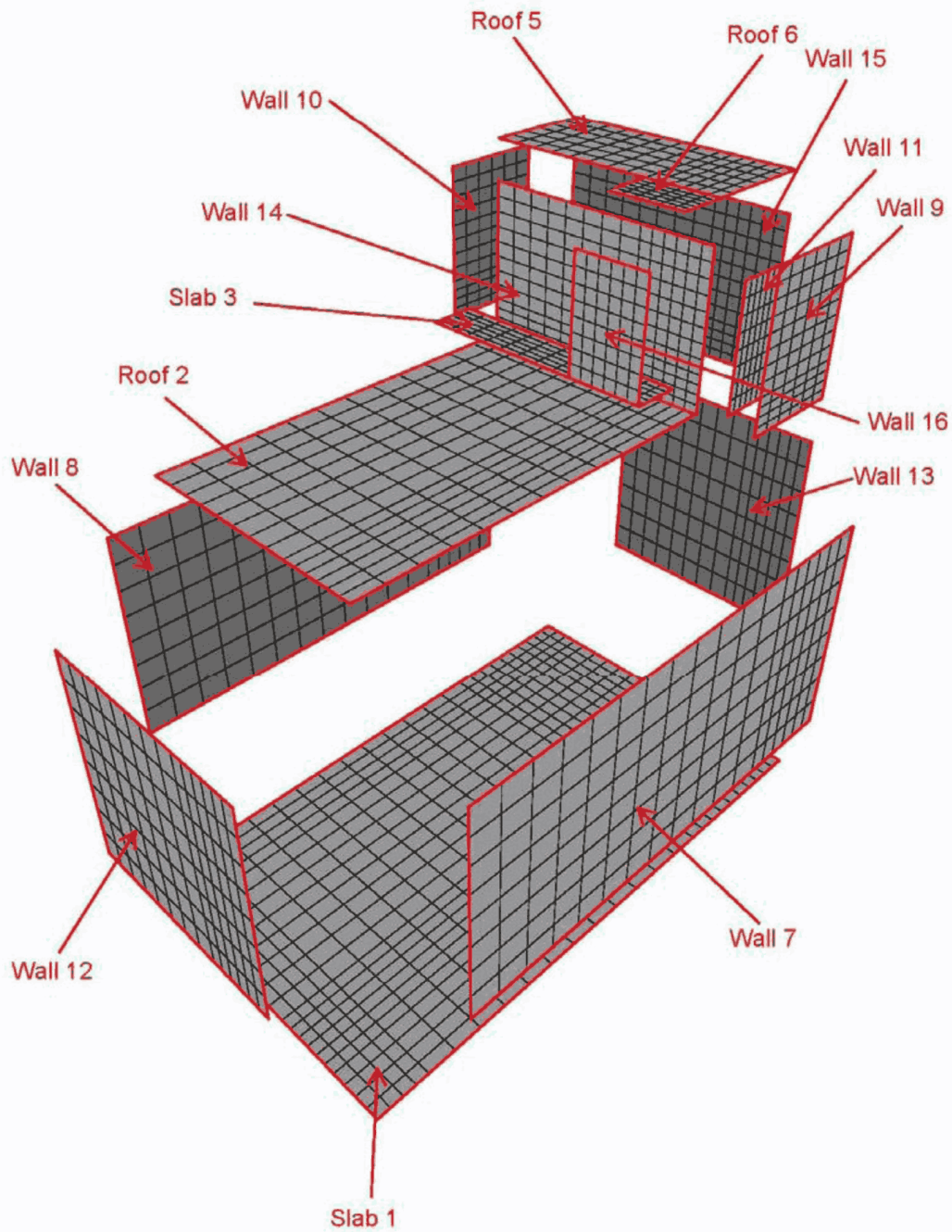
**Figure 3H.6-140 DGFSV SAP2000 Model**



**Figure 3H.6-141 DGFSV Wall and Slab Labeling Convention**

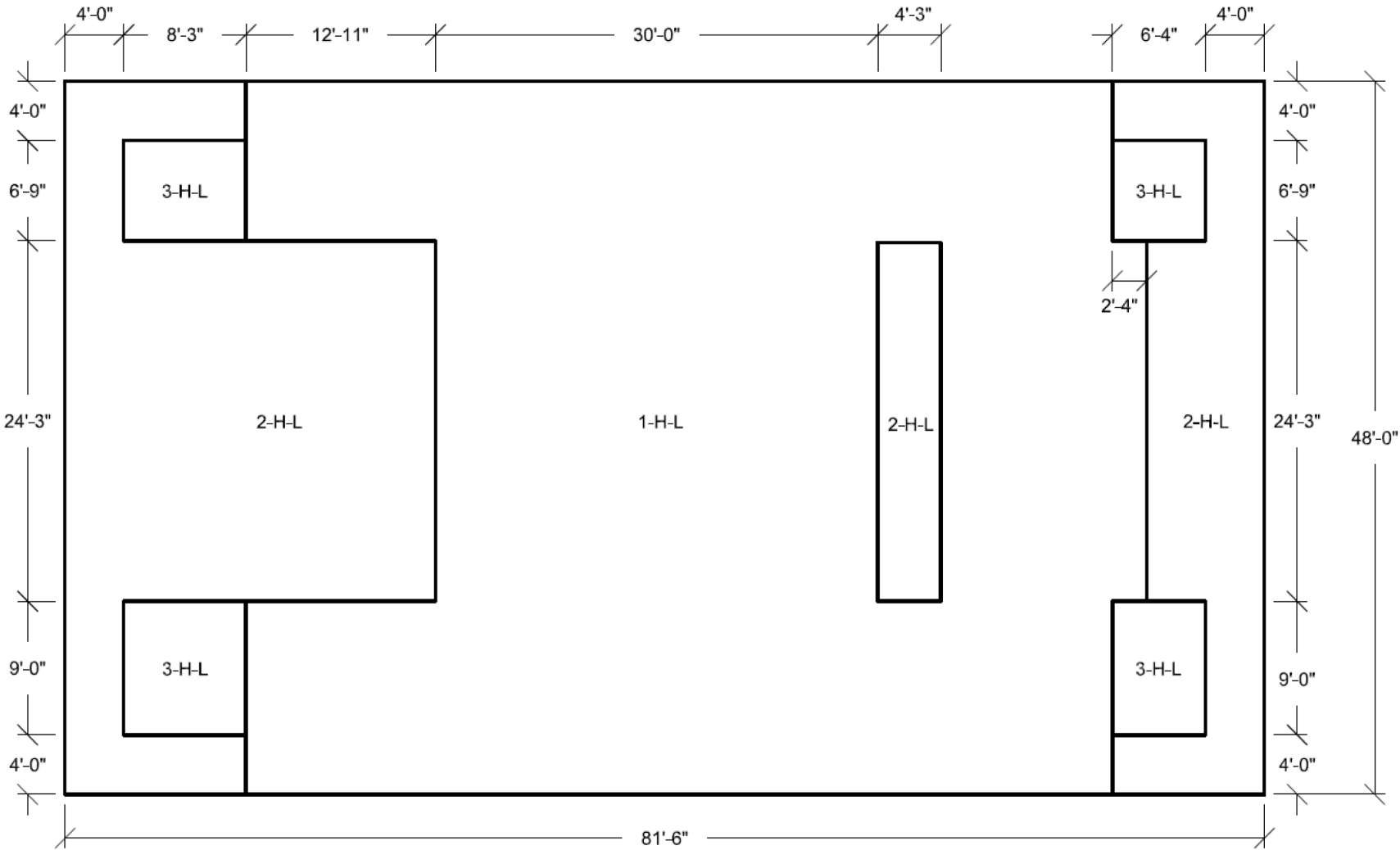


Figure 3H.6-142 DGFOV Slab 1 Looking Down  
Horizontal Reinforcement Zones  
Near Side Face

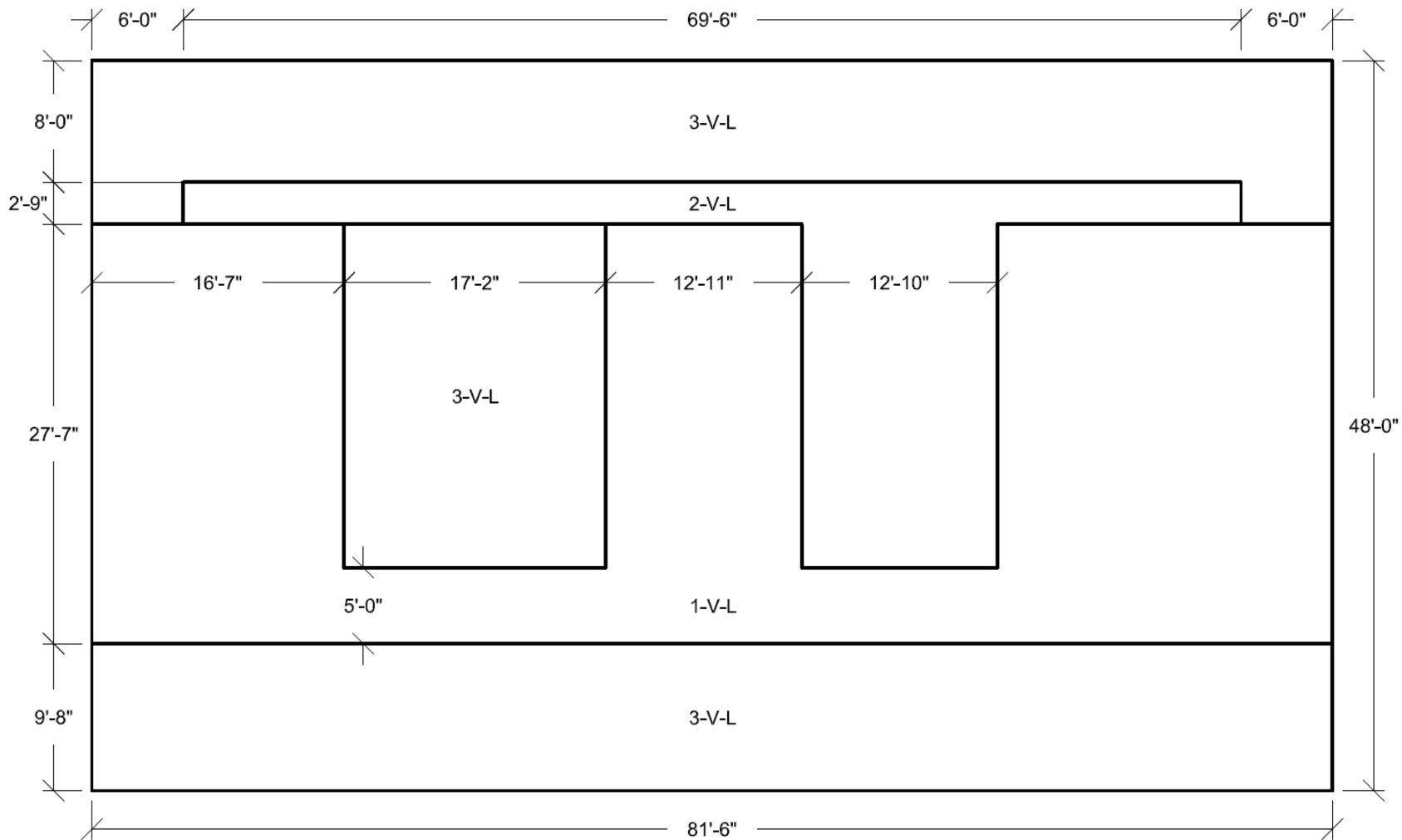


Figure 3H.6-143 DGFOV Slab 1 Looking Down Vertical Reinforcement Zones Near Side Face



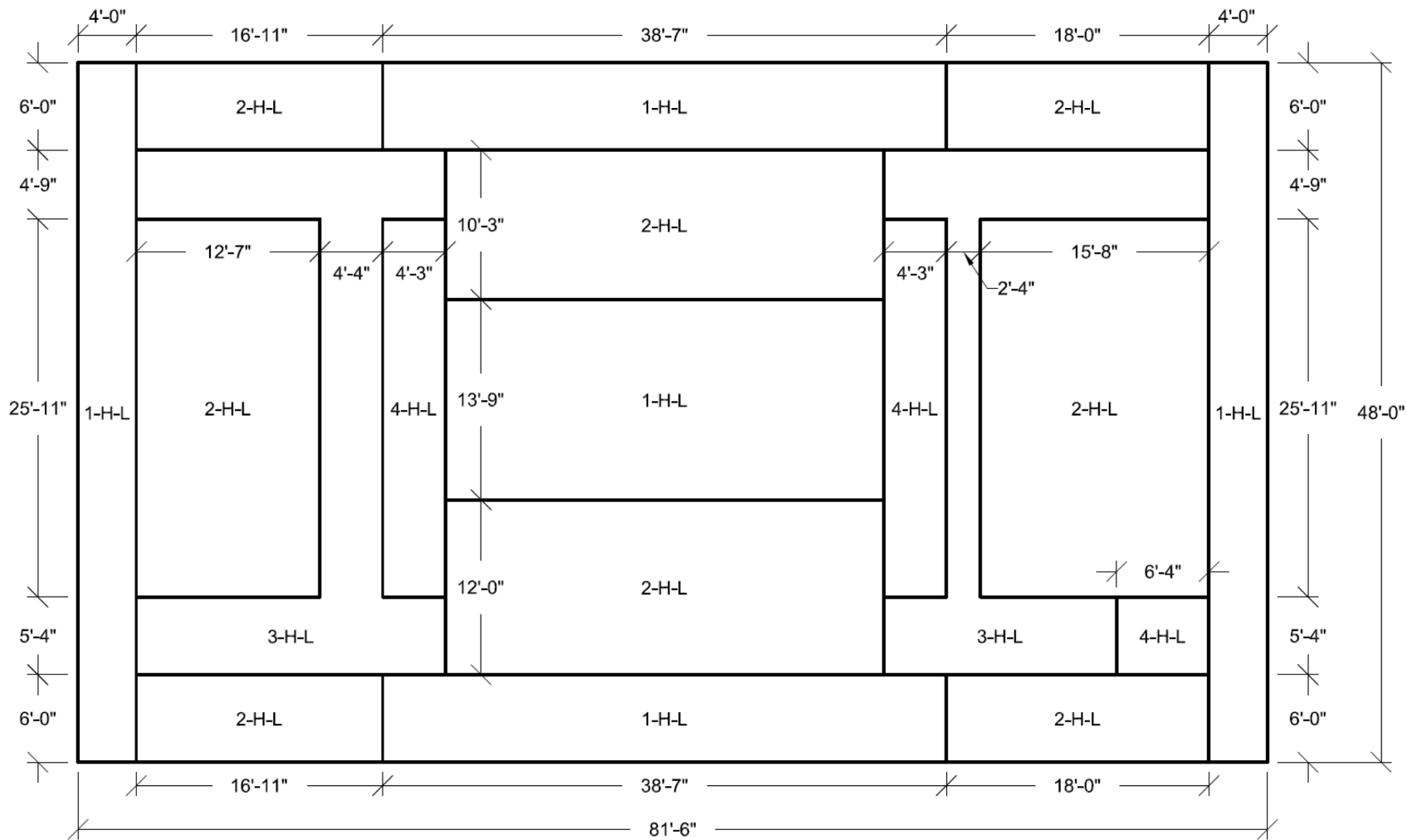


Figure 3H.6-144 DGFOV Slab 1 Looking Down  
Horizontal Reinforcement Zones  
Far Side Face

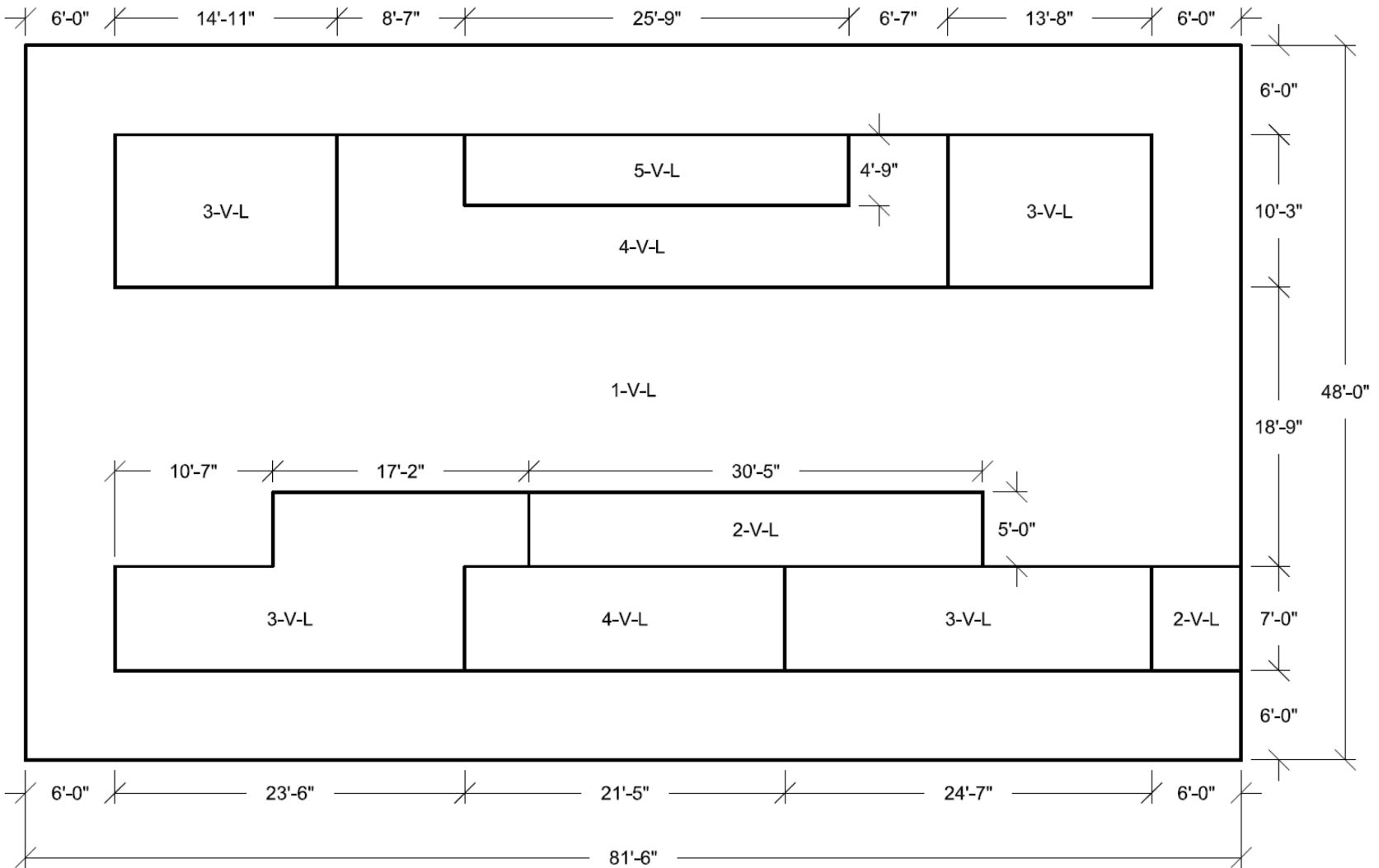


Figure 3H.6-145 DGFOV Slab 1 Looking Down Vertical Reinforcement Zones Far Side Face

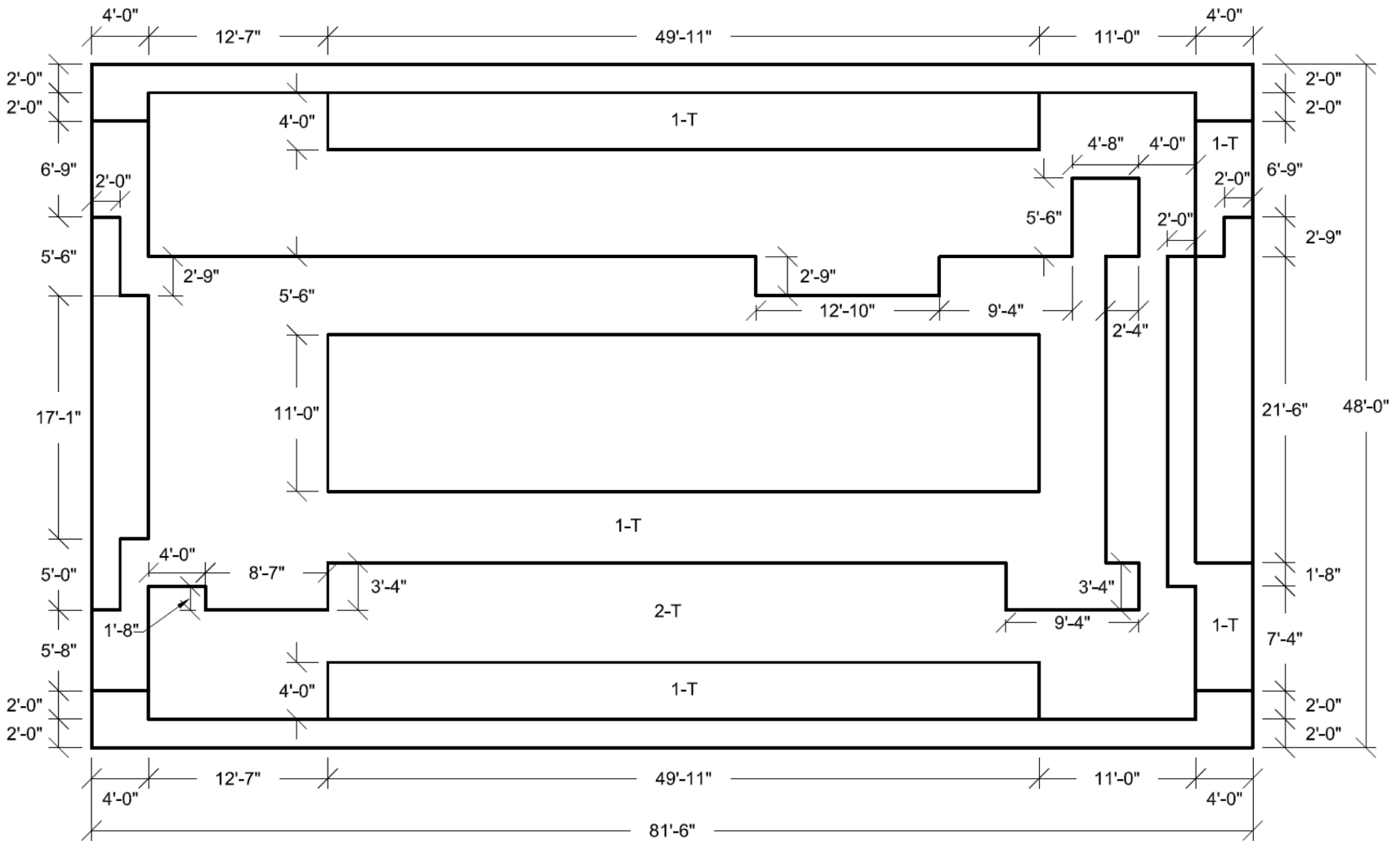


Figure 3H.6-146 DGFOSV Slab 1 Looking Down Transverse Reinforcement Zones

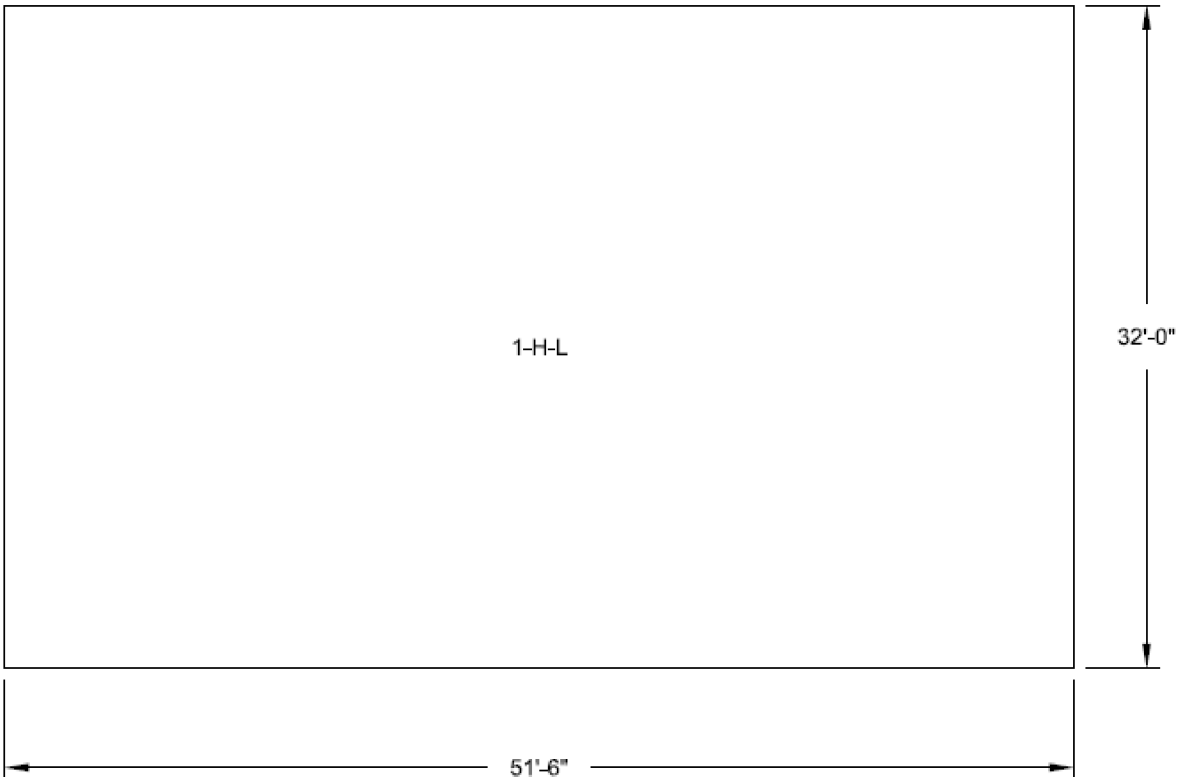


Figure 3H.6-147 DGFOVS Roof 2 Looking Down Horizontal Reinforcement Zones Near Side Face

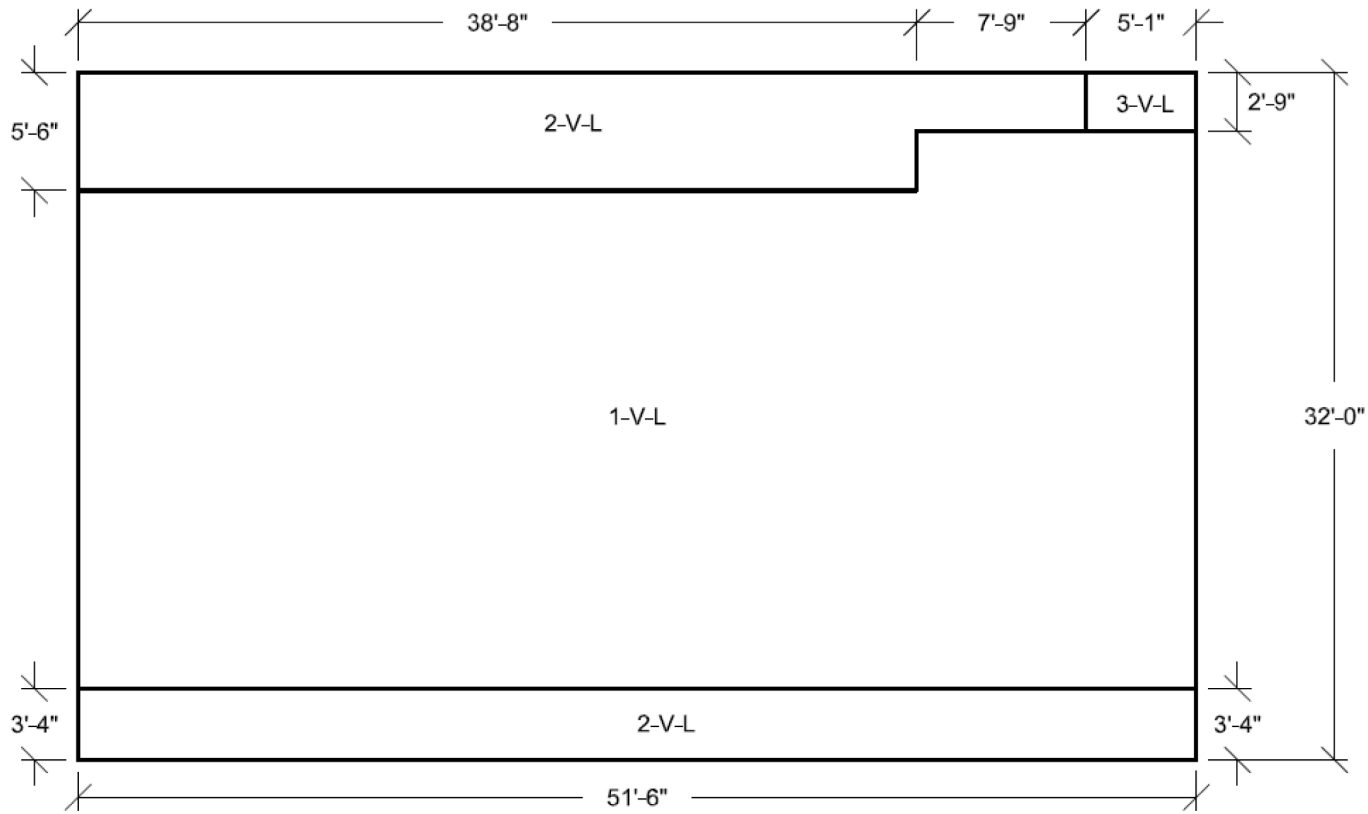


Figure 3H.6-148 DGFOV Roof 2 Looking Down Vertical Reinforcement Zones Near Side Face

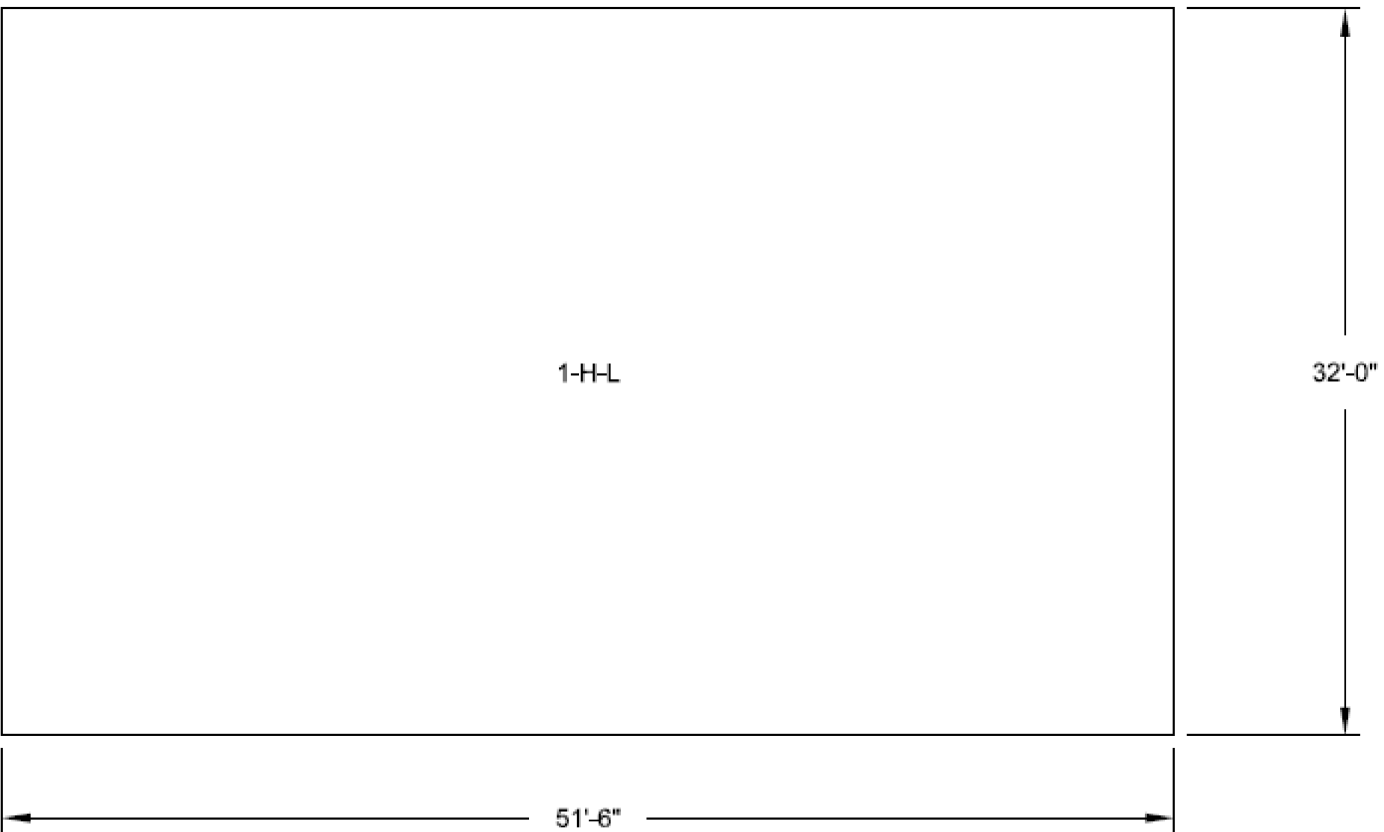
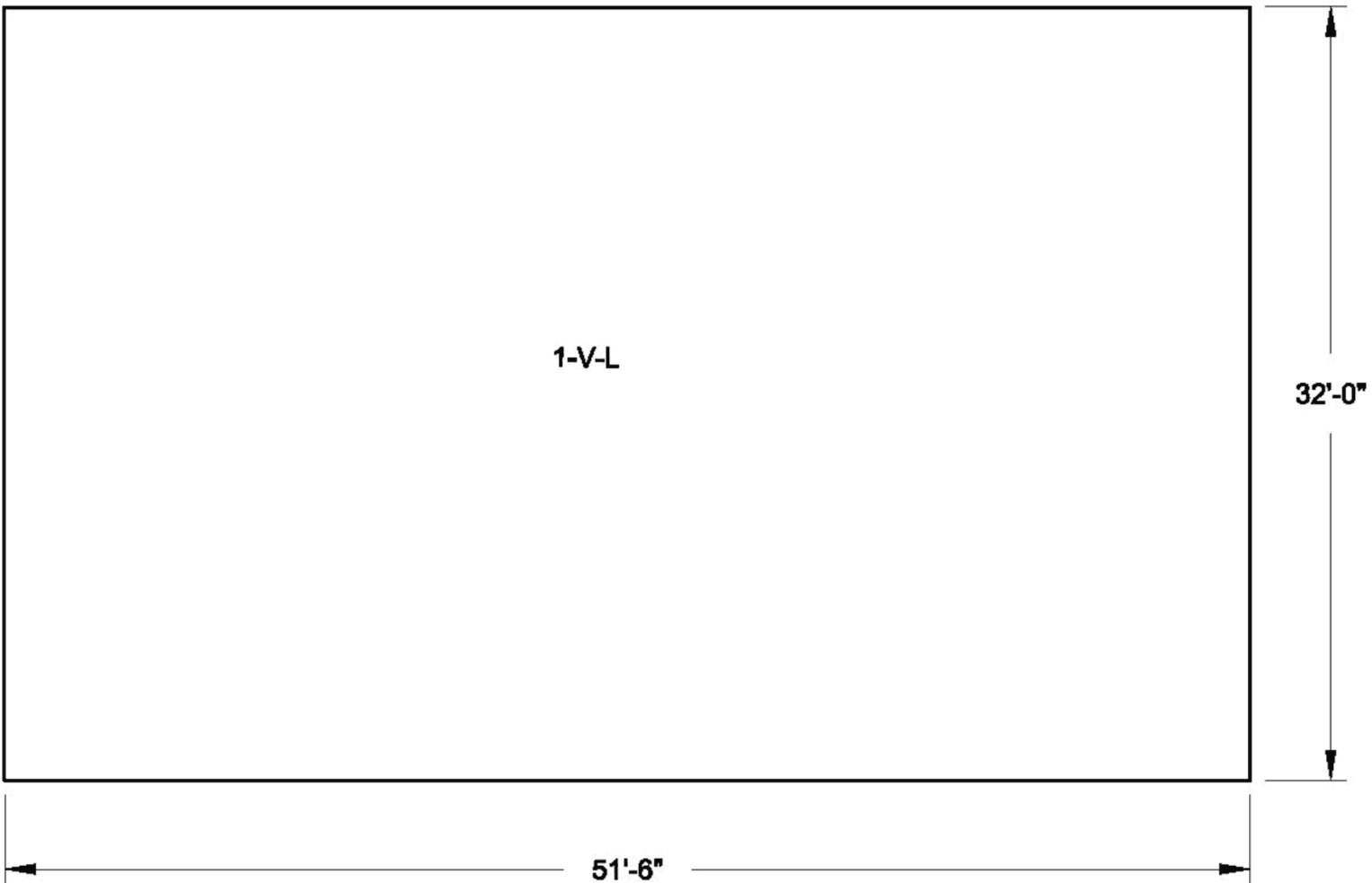


Figure 3H.6-149 DGFOSV Roof 2 Looking Down Horizontal Reinforcement Zones Far Side Face



**Figure 3H.6-150 DGFOV Roof 2 Looking Down  
Vertical Reinforcement Zones  
Far Side Face**



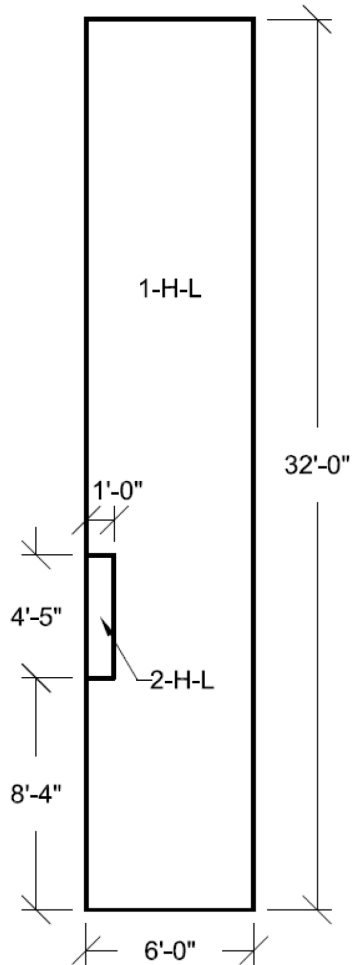


Figure 3H.6-151 DGFOV Slab 3 Looking Down  
Horizontal Reinforcement Zones  
Near Side Face

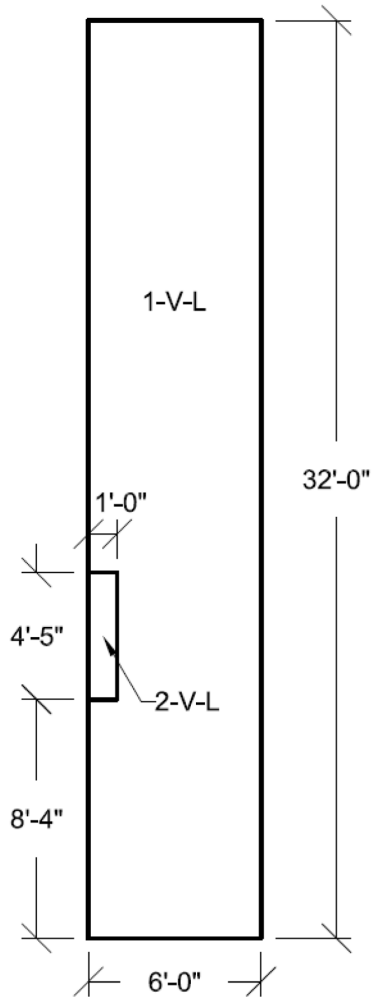


Figure 3H.6-152 DGFOV Slab 3 Looking Down  
Vertical Reinforcement Zones  
Near Side Face

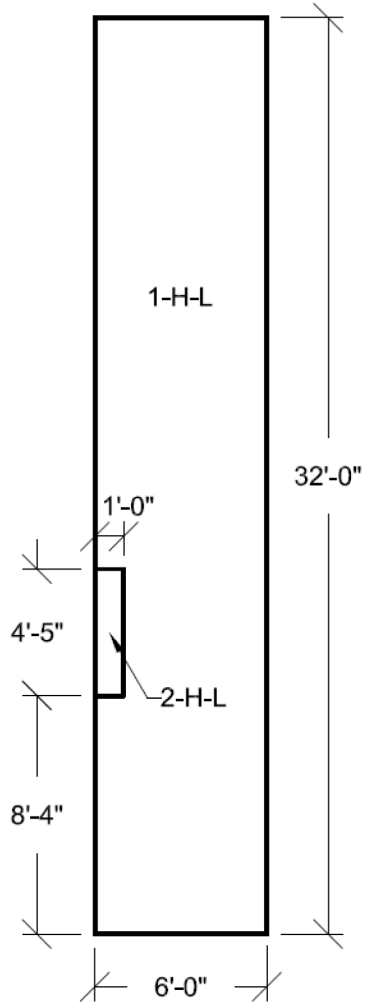


Figure 3H.6-153 DGFOV Slab 3 Looking Down  
Horizontal Reinforcement Zones  
Far Side Face

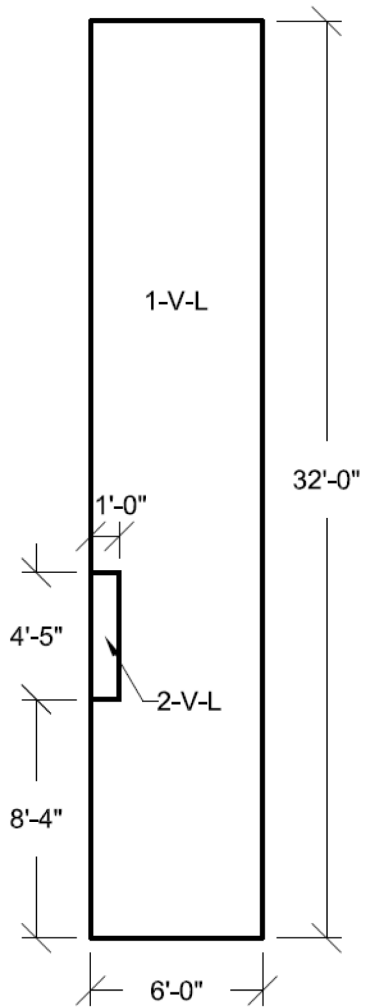


Figure 3H.6-154A DGFOVS Slab 3 Looking Down  
Vertical Reinforcement Zones  
Far Side Face

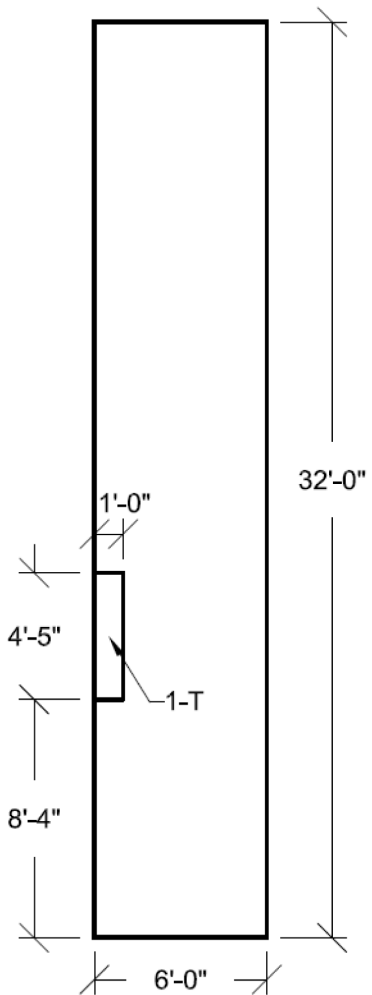


Figure 3H.6-154B DGFOSV Slab 3 Looking Down  
Transverse Reinforcement Zones

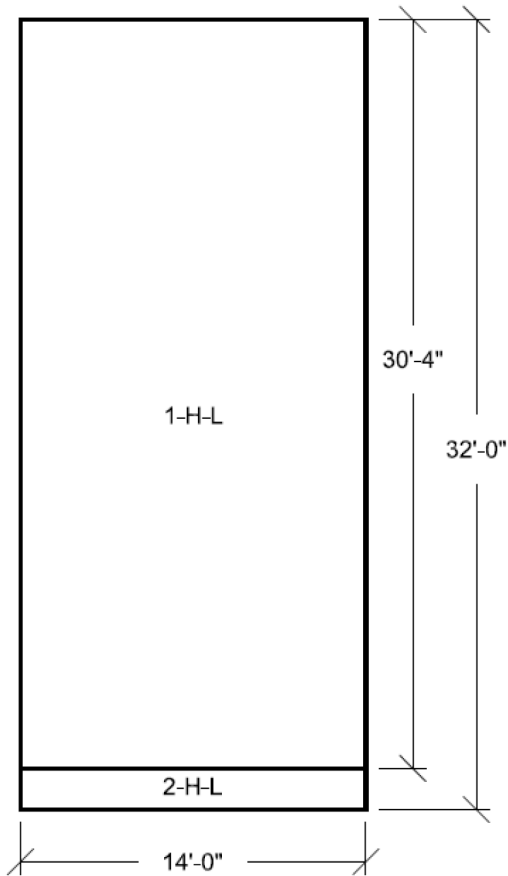


Figure 3H.6-155 DGFO SV Roof 5 Looking Down  
Horizontal Reinforcement Zones  
Near Side Face

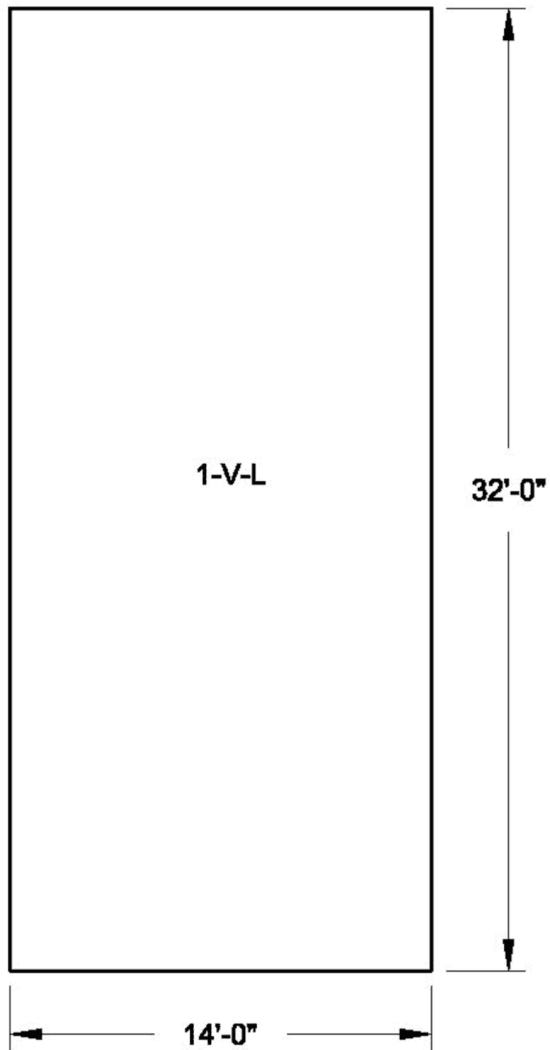


Figure 3H.6-156 DGFOV Roof 5 Looking Down  
Vertical Reinforcement Zones  
Near Side Face



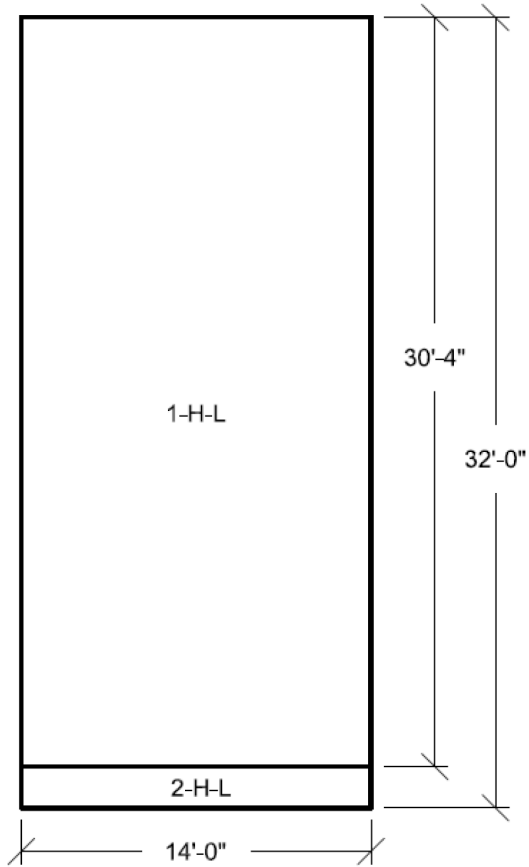


Figure 3H.6-157 DGFO SV Roof 5 Looking Down  
Horizontal Reinforcement Zones  
Far Side Face

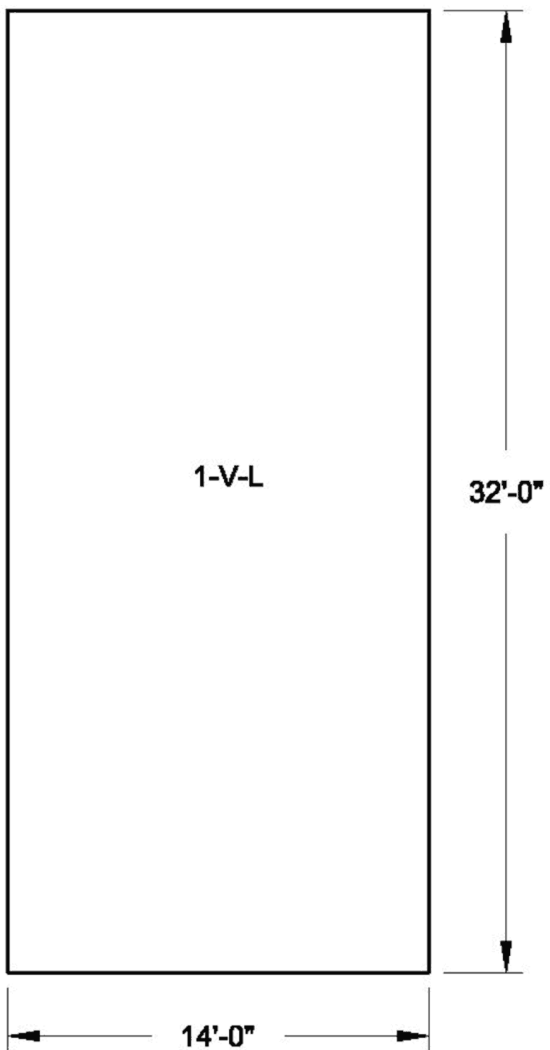


Figure 3H.6-158 DGFOV Roof 5 Looking Down  
Vertical Reinforcement Zones  
Far Side Face

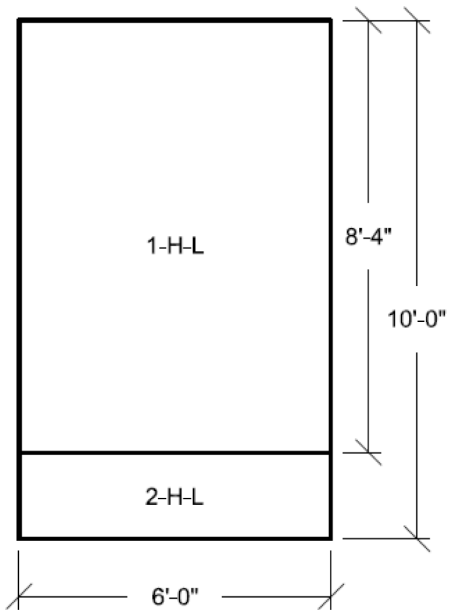


Figure 3H.6-159 DGFOSV Roof 6 Looking Down  
Horizontal Reinforcement Zones  
Near Side Face

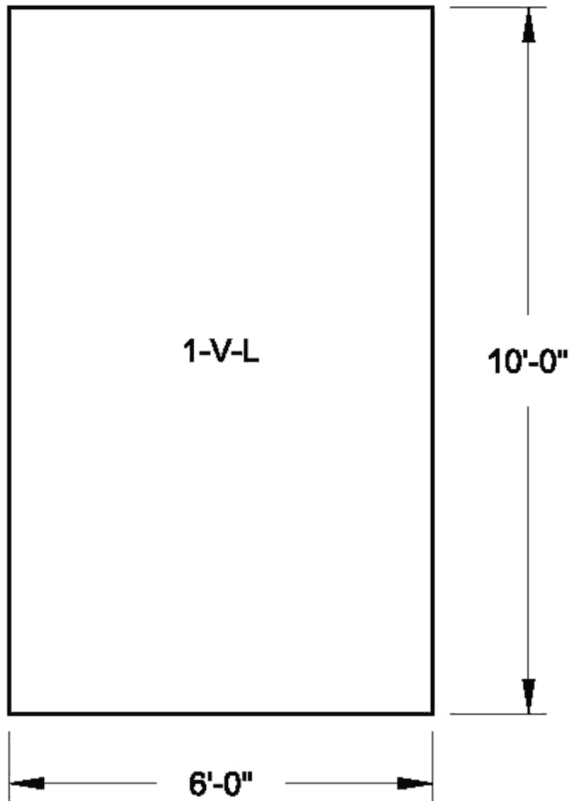


Figure 3H.6-160 DGFO SV Roof 6 Looking Down  
Vertical Reinforcement Zones  
Near Side Face

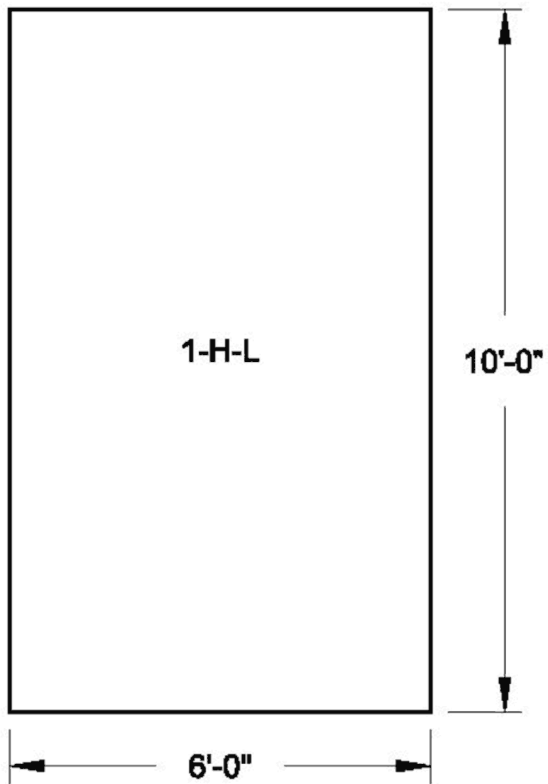


Figure 3H.6-161 DGFOV Roof 6 Looking Down  
Horizontal Reinforcement Zones  
Far Side Face

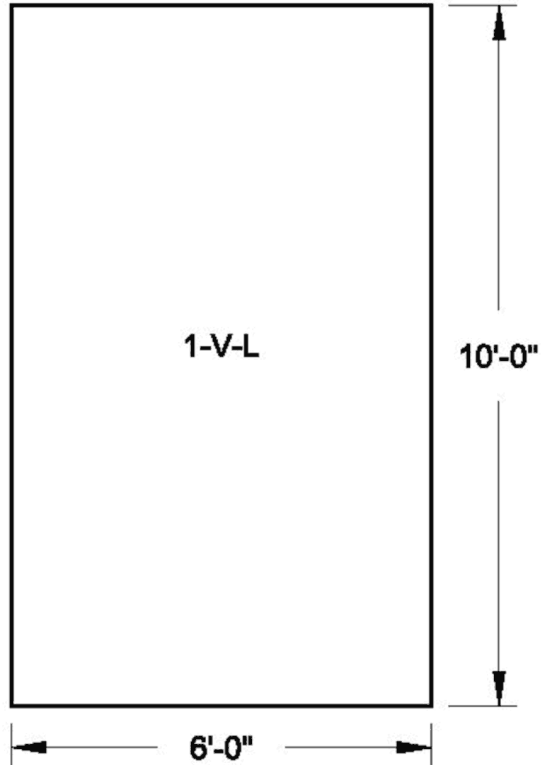


Figure 3H.6-162 DGFOSV Roof 6 Looking Down  
Vertical Reinforcement Zones  
Far Side Face

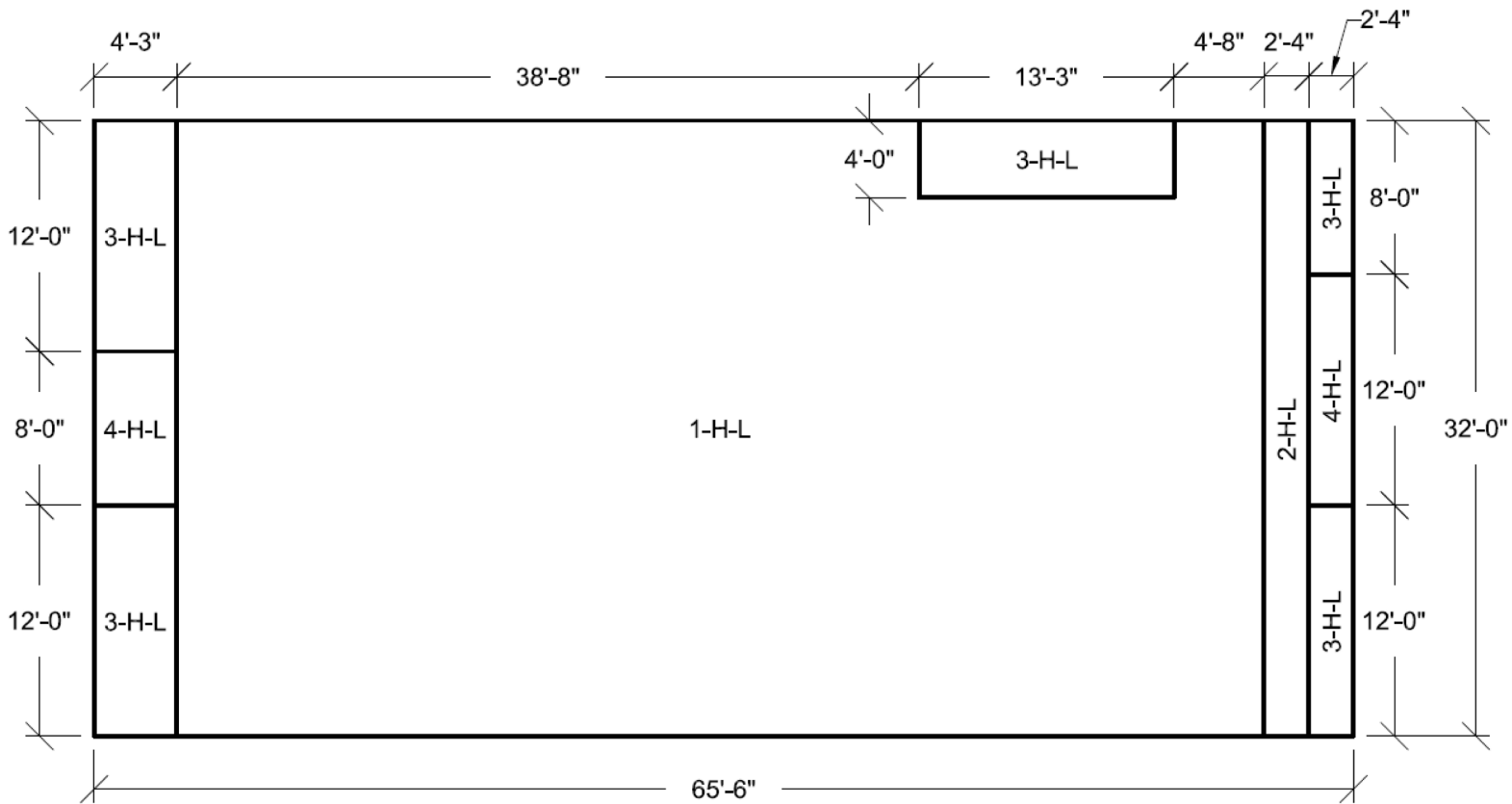


Figure 3H.6-163 DGFOSV Wall 7 Looking From Outside Horizontal Reinforcement Zones Near Side Face



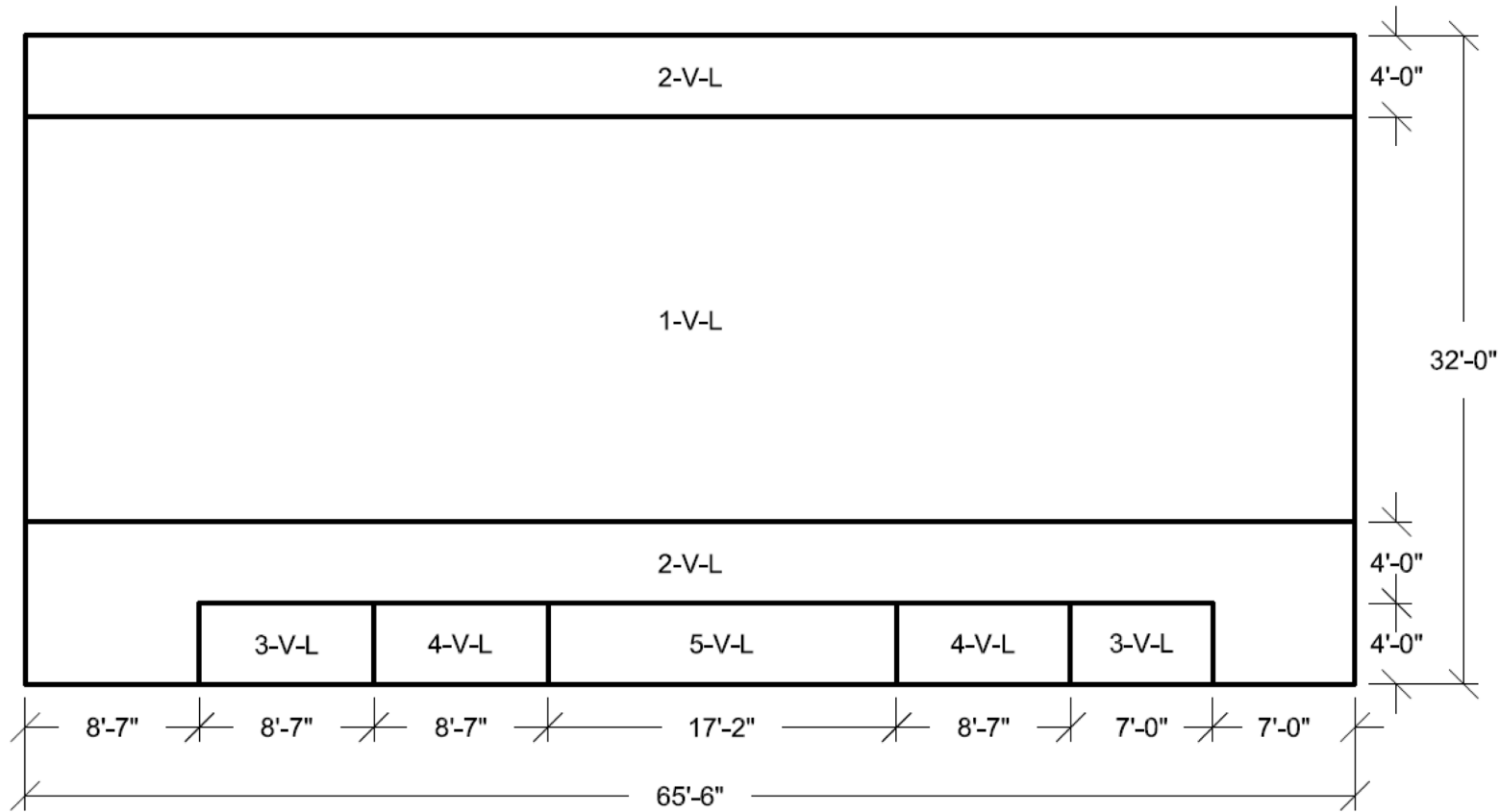


Figure 3H.6-164 DGFOSV Wall 7 Looking From Outside  
Vertical Reinforcement Zones  
Near Side Face

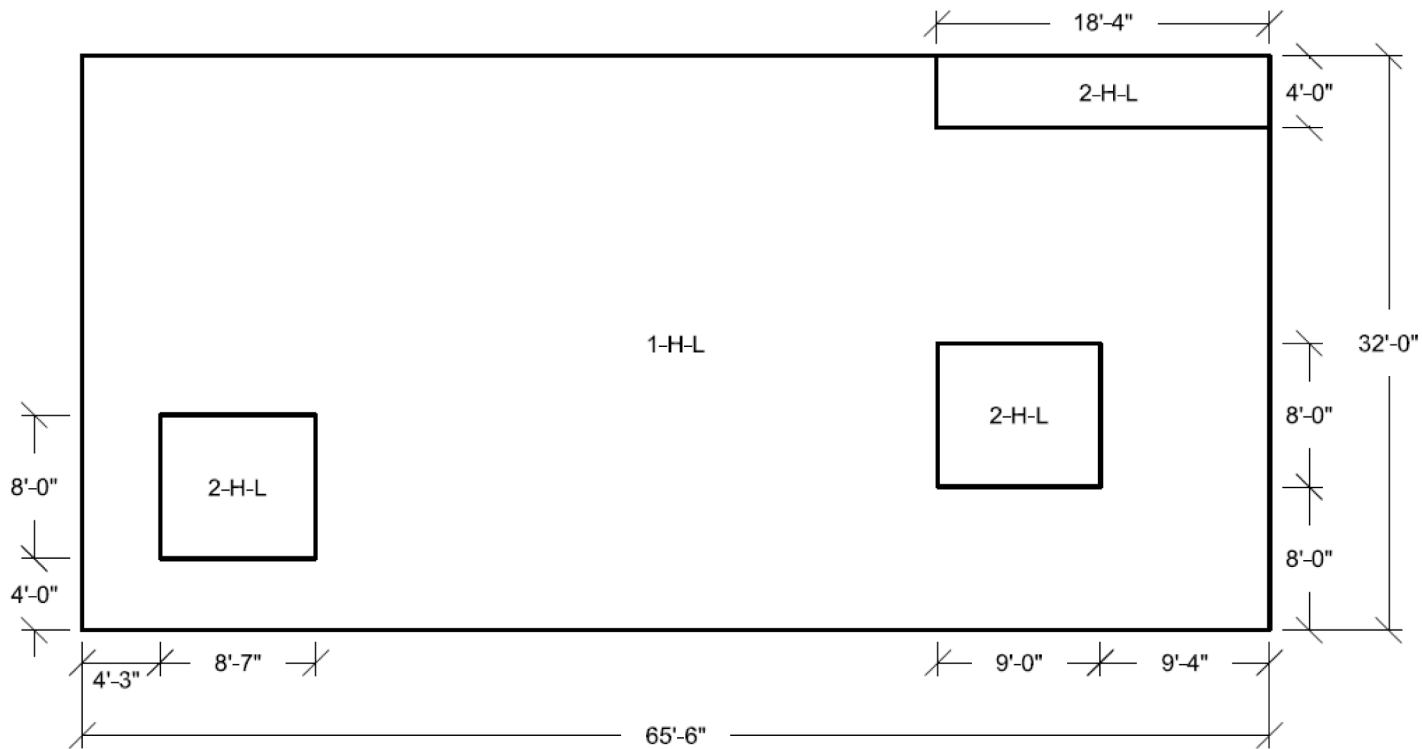


Figure 3H.6-165 DGFOSV Wall 7 Looking From Outside  
Horizontal Reinforcement Zones  
Far Side Face

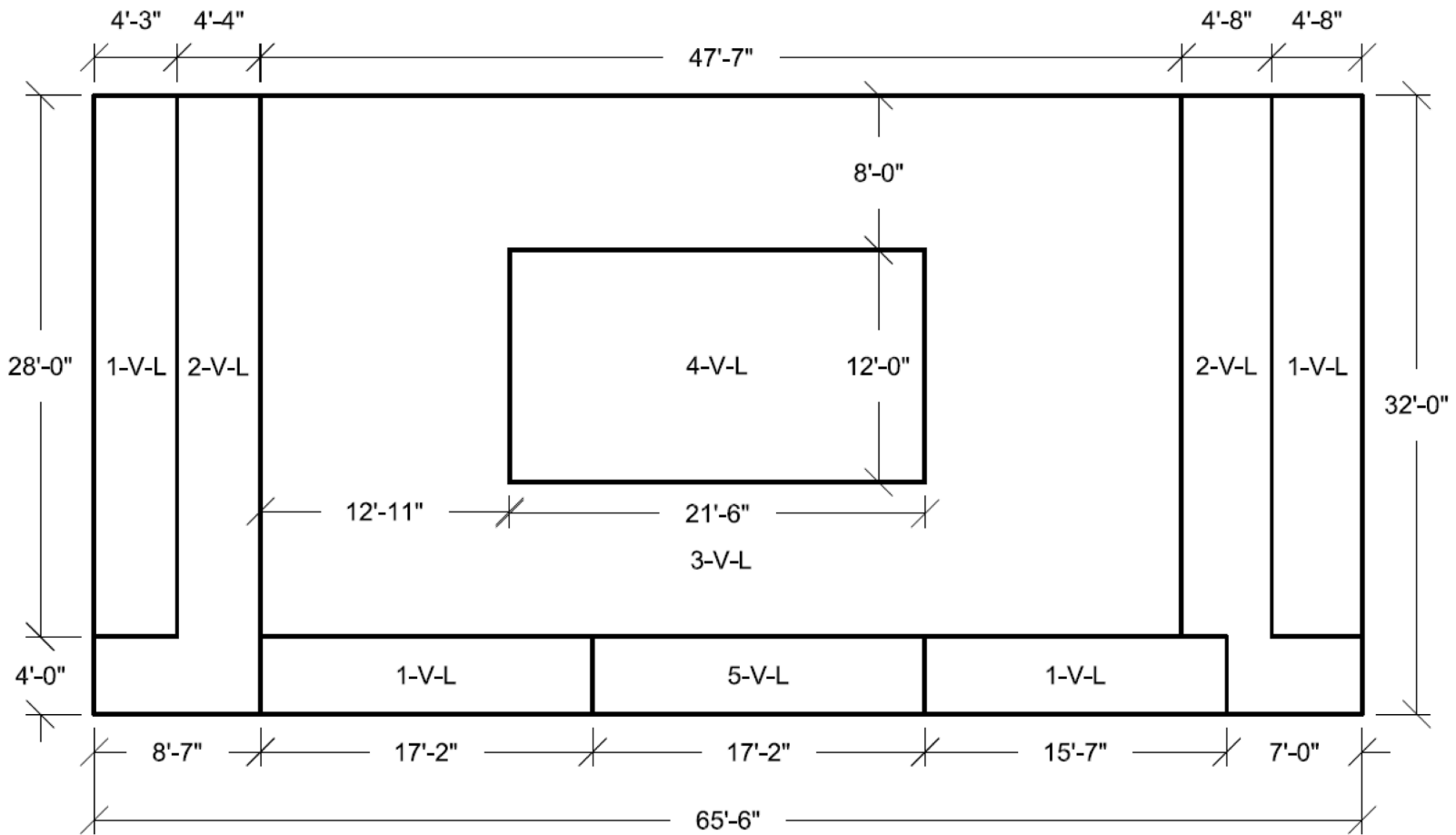


Figure 3H.6-166 DGFOSV Wall 7 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face

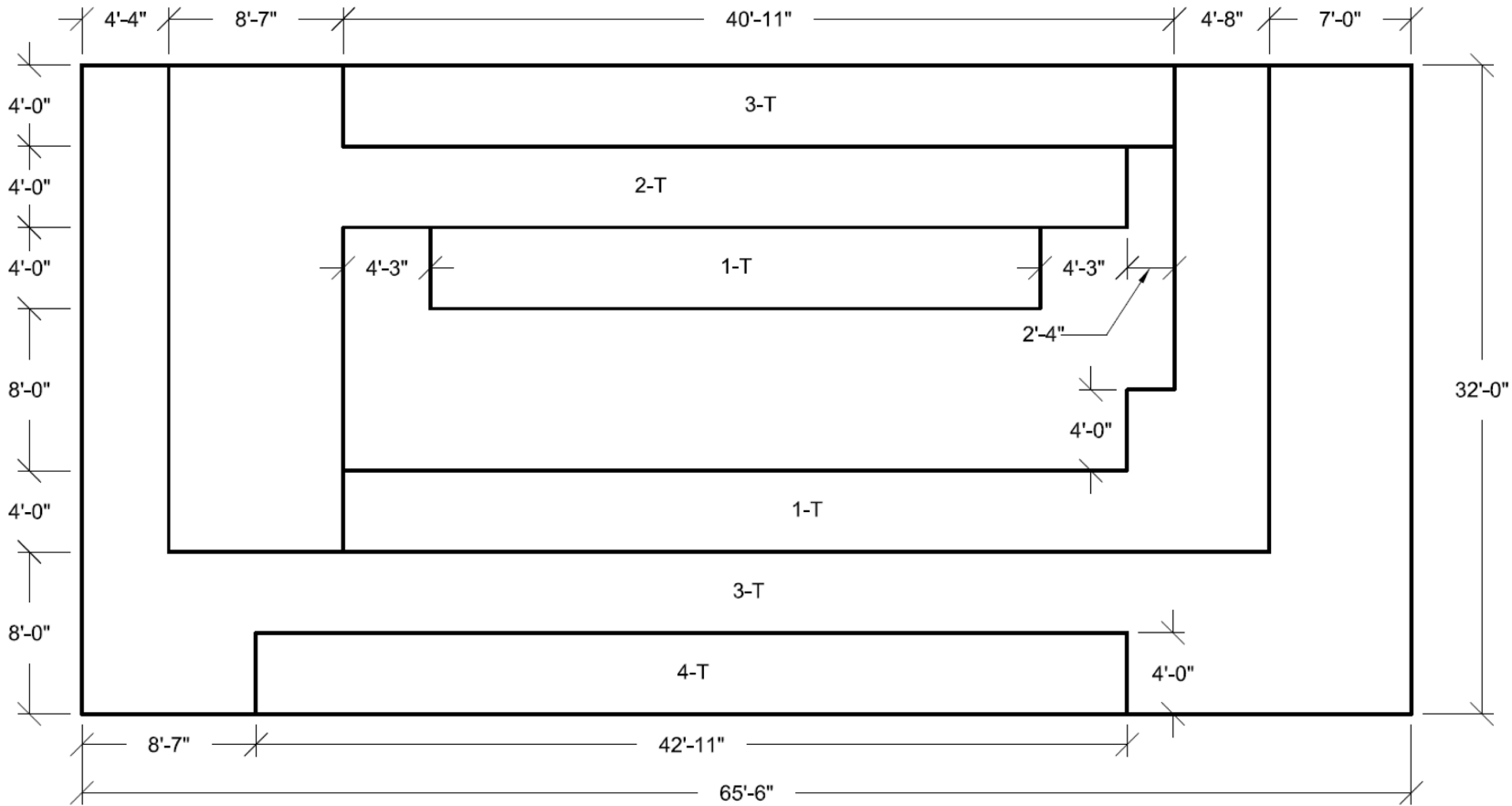


Figure 3H.6-167 DGFOV Wall 7 Looking From Outside Transverse Reinforcement Zones

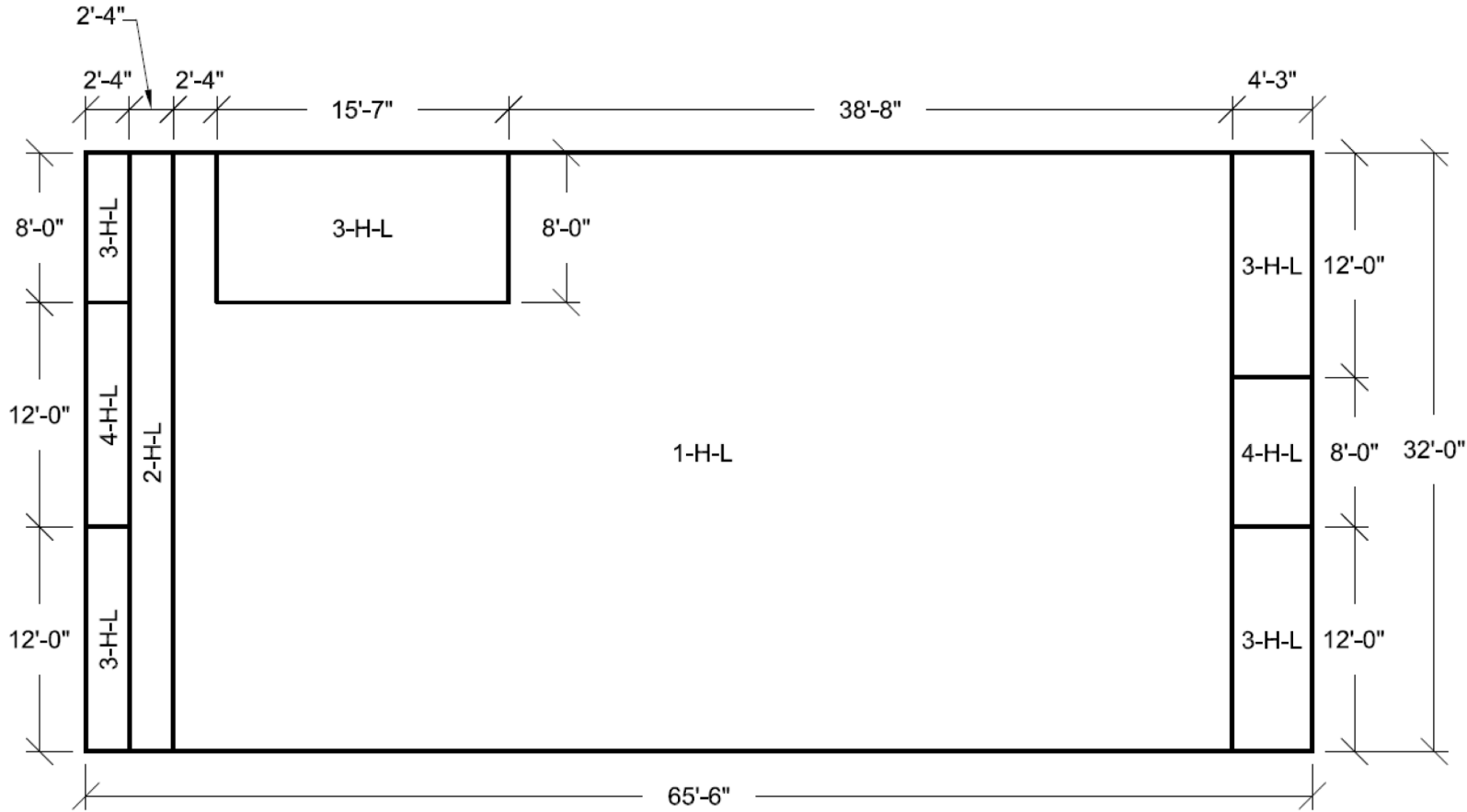


Figure 3H.6-168 DGFOSV Wall 8 Looking From Outside  
Horizontal Reinforcement Zones  
Near Side Face

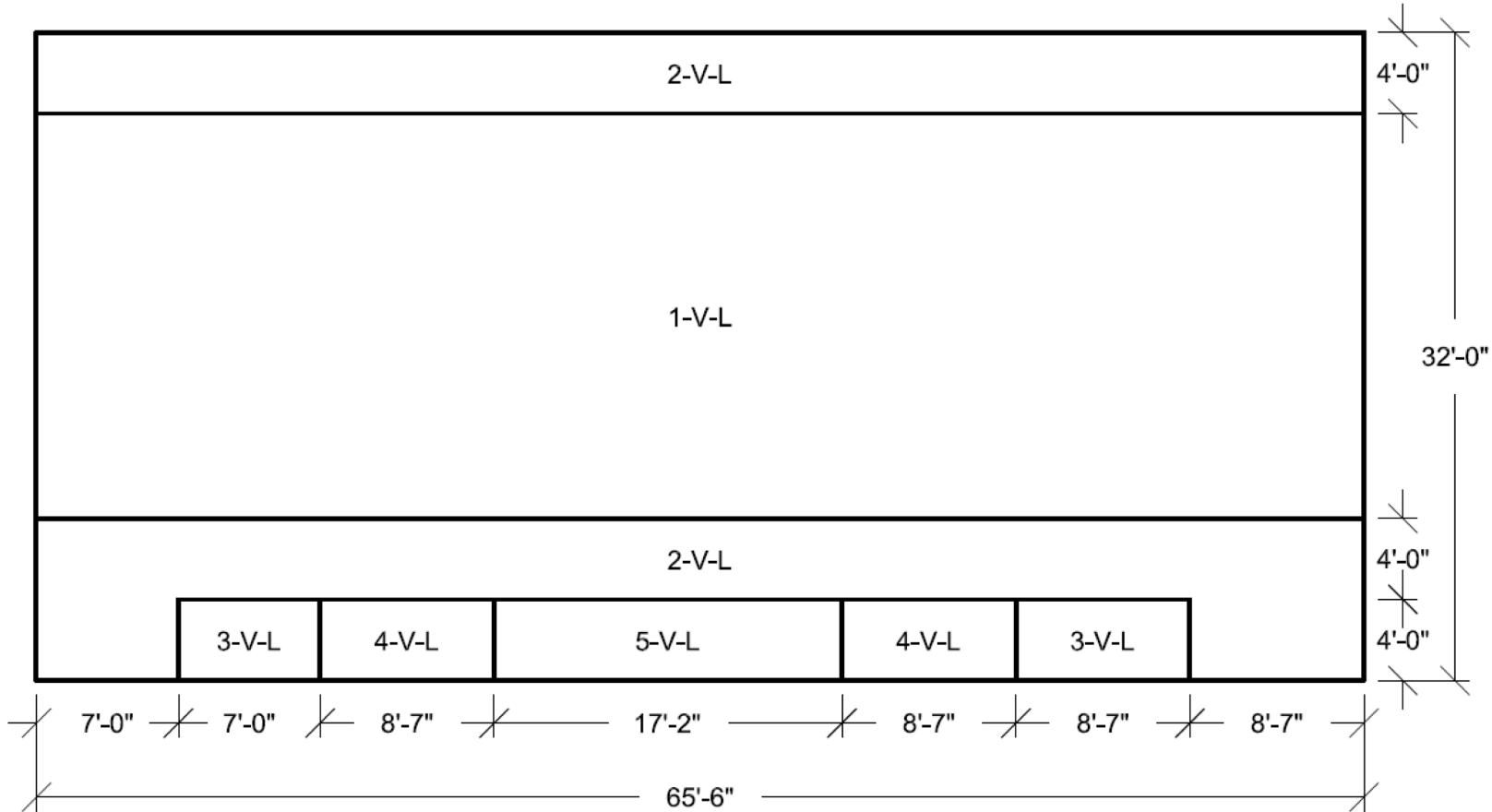


Figure 3H.6-169 DGFOSV Wall 8 Looking From Outside  
Vertical Reinforcement Zones  
Near Side Face

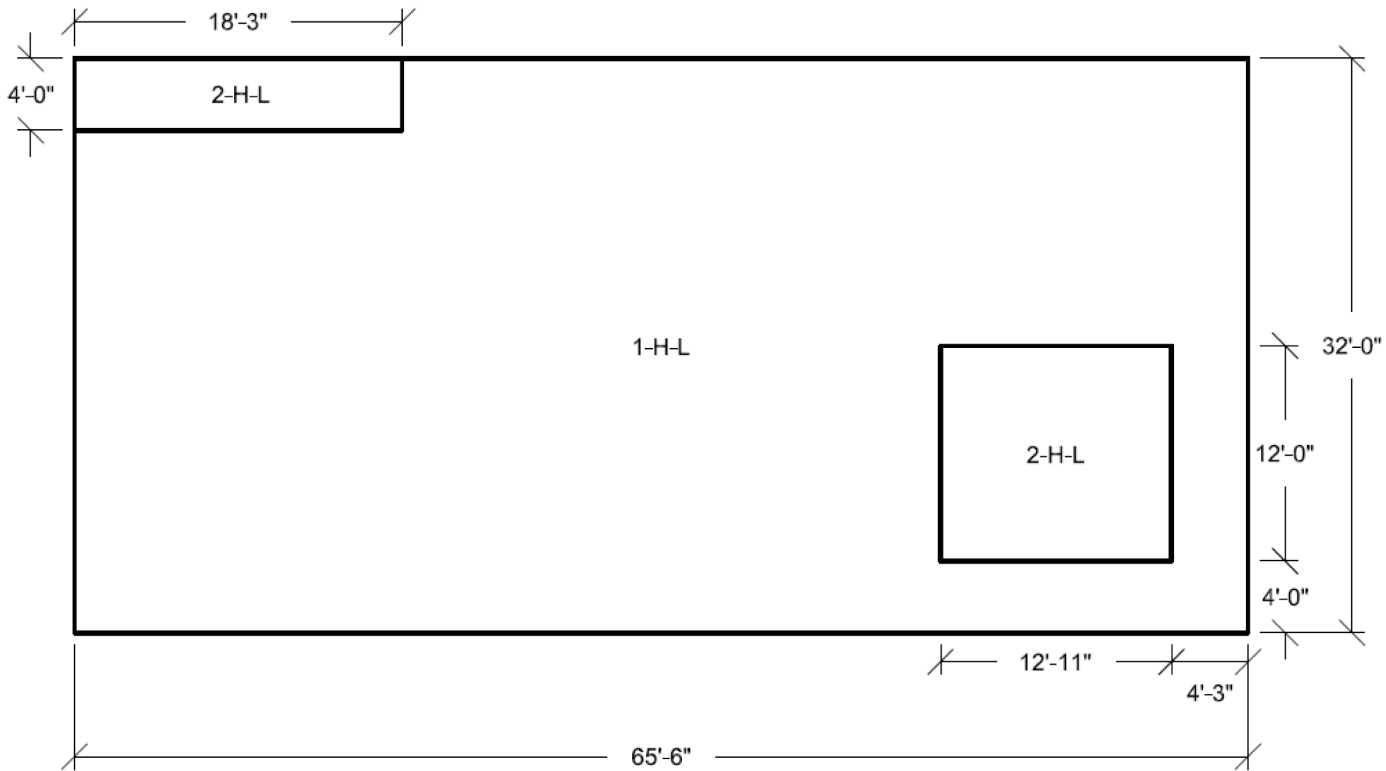


Figure 3H.6-170 DGFSV Wall 8 Looking From Outside Horizontal Reinforcement Zones Far Side Face



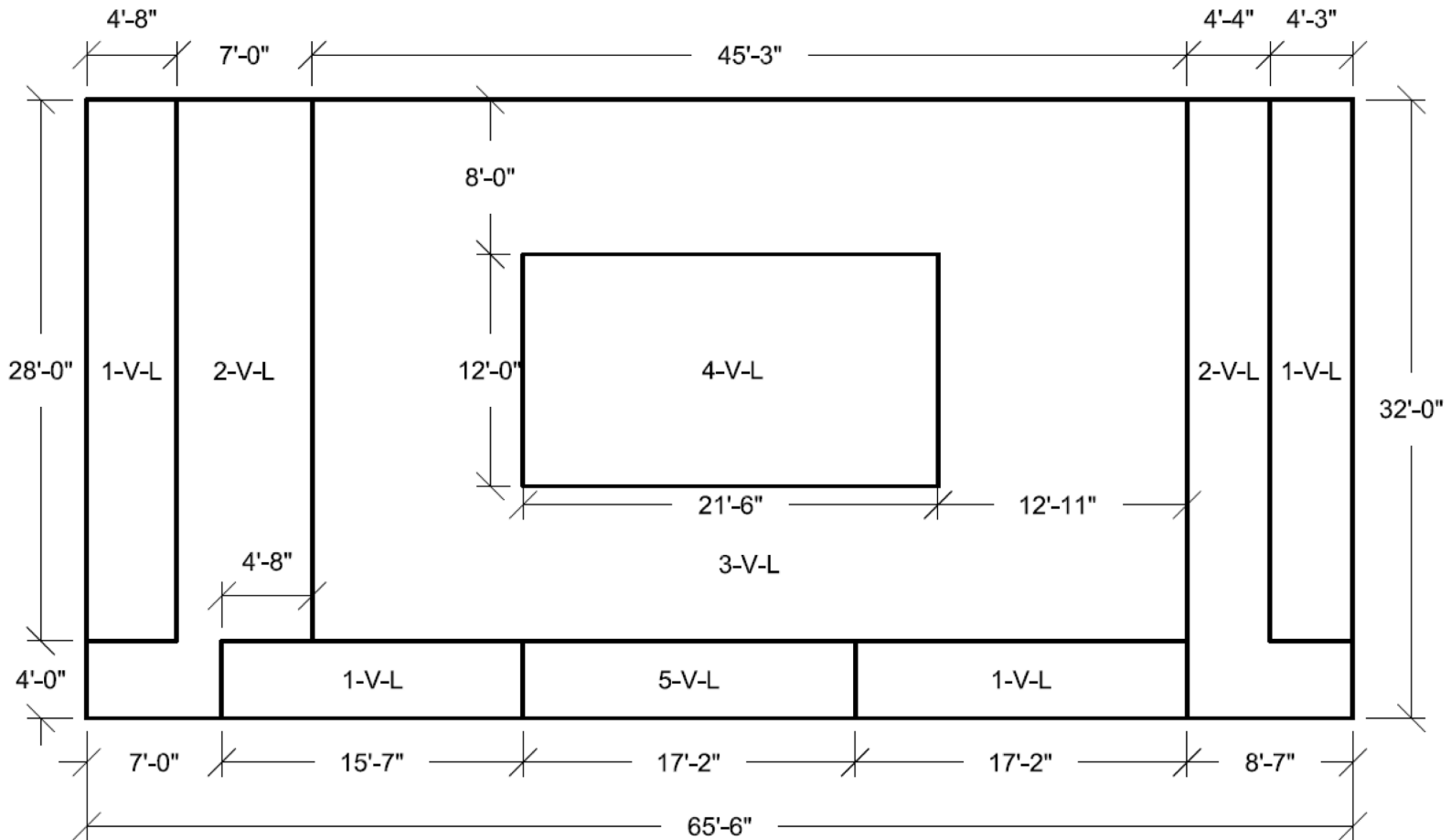


Figure 3H.6-171 DGFOSV Wall 8 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face

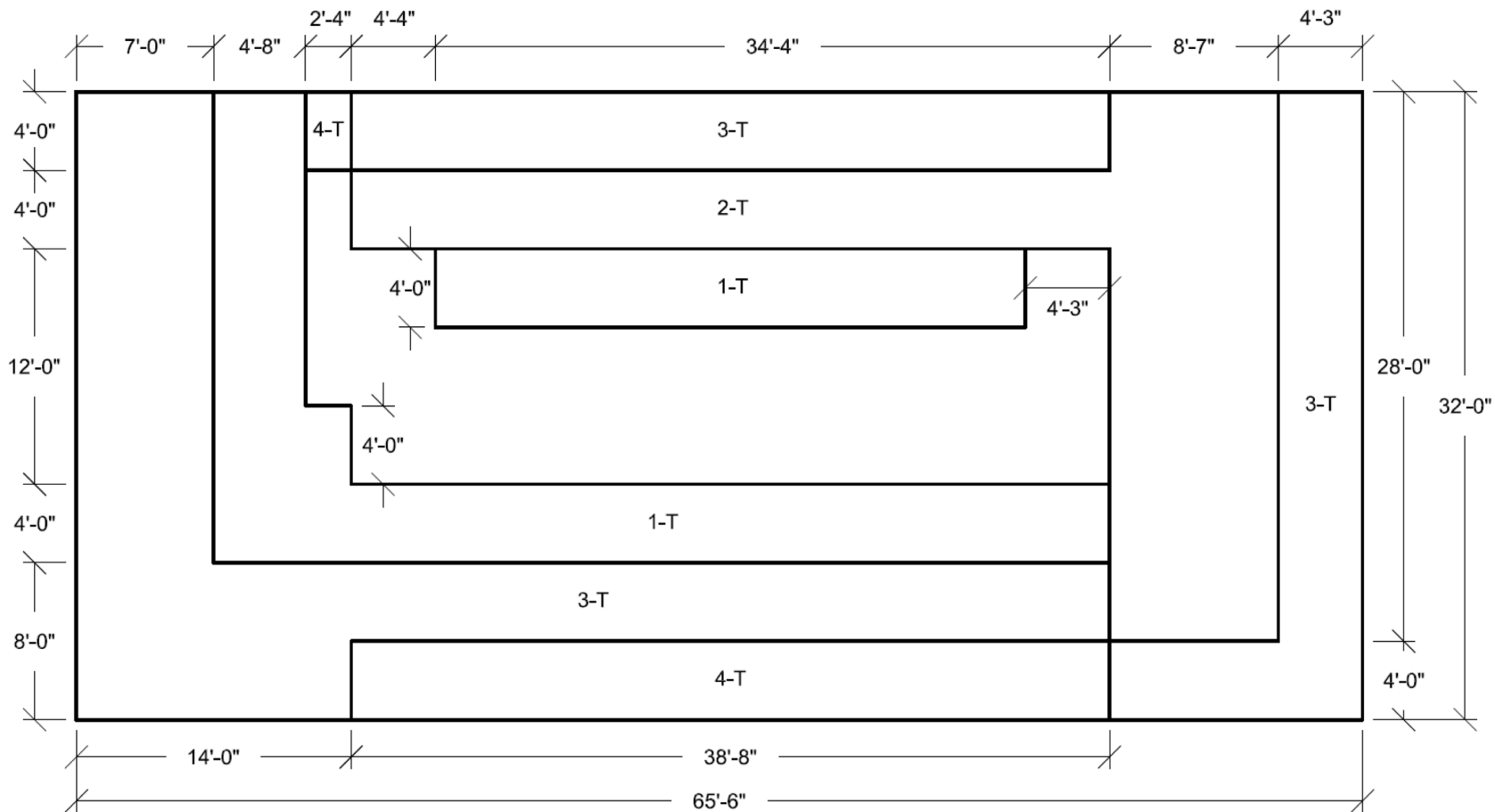


Figure 3H.6-172 DGFOV Wall 8 Looking From Outside Transverse Reinforcement Zones

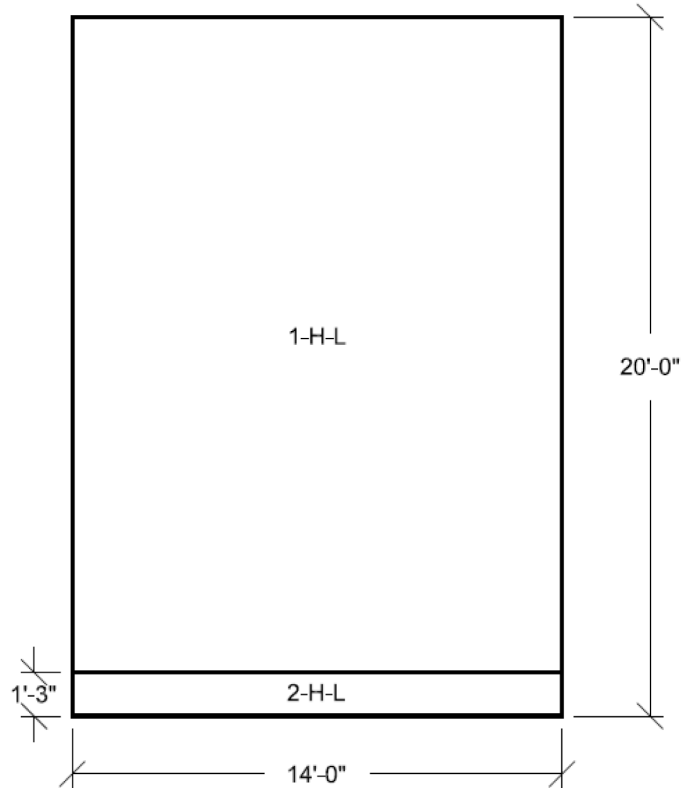


Figure 3H.6-173 DGFOSV Wall 9 Looking From Outside Horizontal Reinforcement Zones Near Side Face

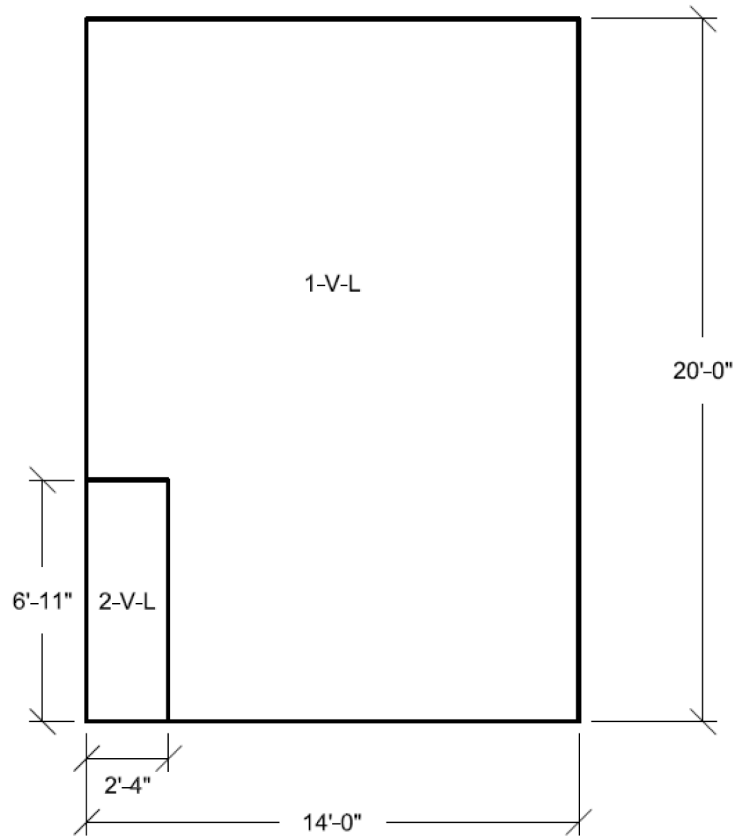


Figure 3H.6-174 DGFOV Wall 9 Looking From Outside Vertical Reinforcement Zones Near Side Face

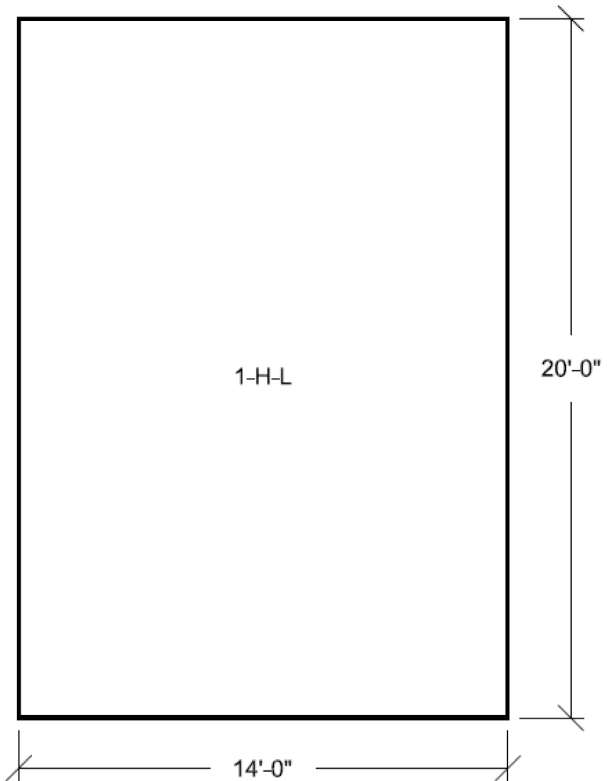


Figure 3H.6-175 DGFOV Wall 9 Looking From Outside Horizontal Reinforcement Zones Far Side Face

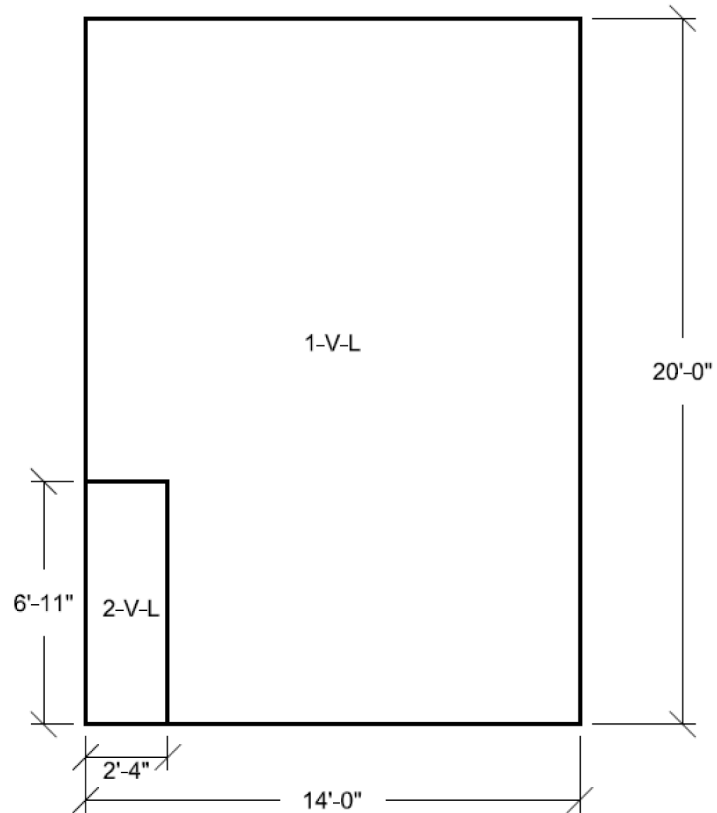


Figure 3H.6-176A DGFOSV Wall 9 Looking From Outside Vertical Reinforcement Zone Far Side Face

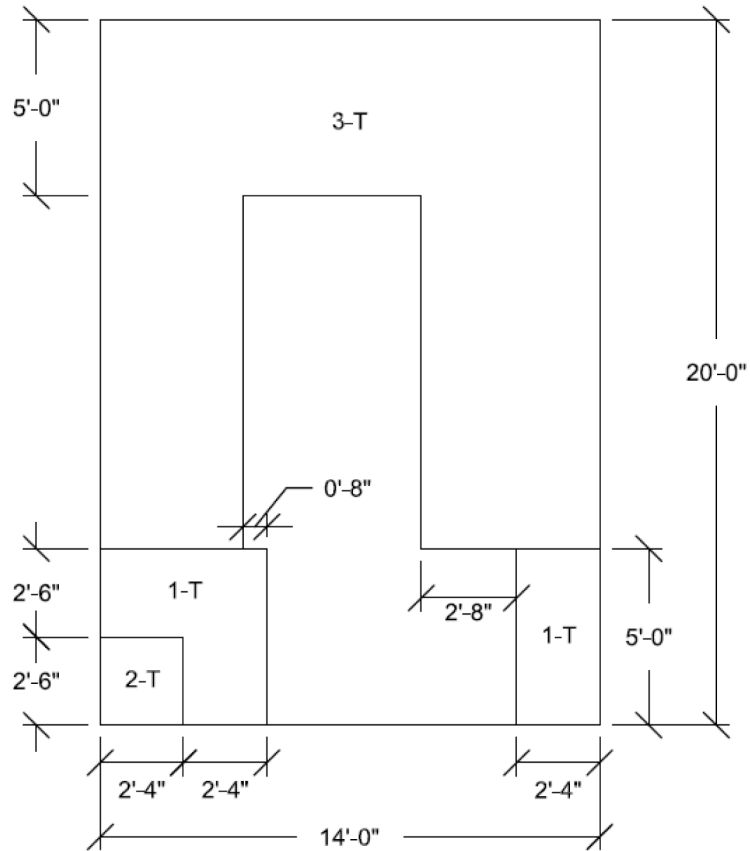


Figure 3H.6-176B DGFSV Wall 9 Looking From Outside Transverse Reinforcement Zone

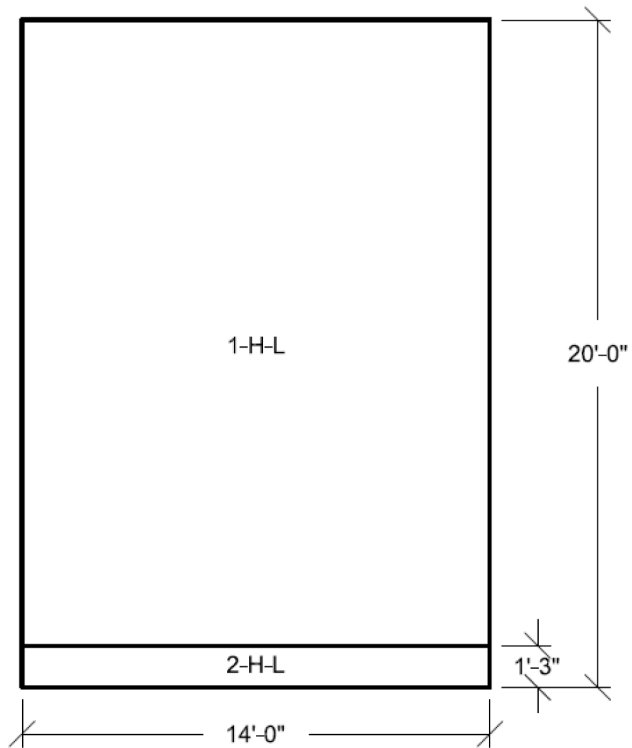


Figure 3H.6-177 DGFSV Wall 10 Looking From Outside Horizontal Reinforcement Zones Near Side Face



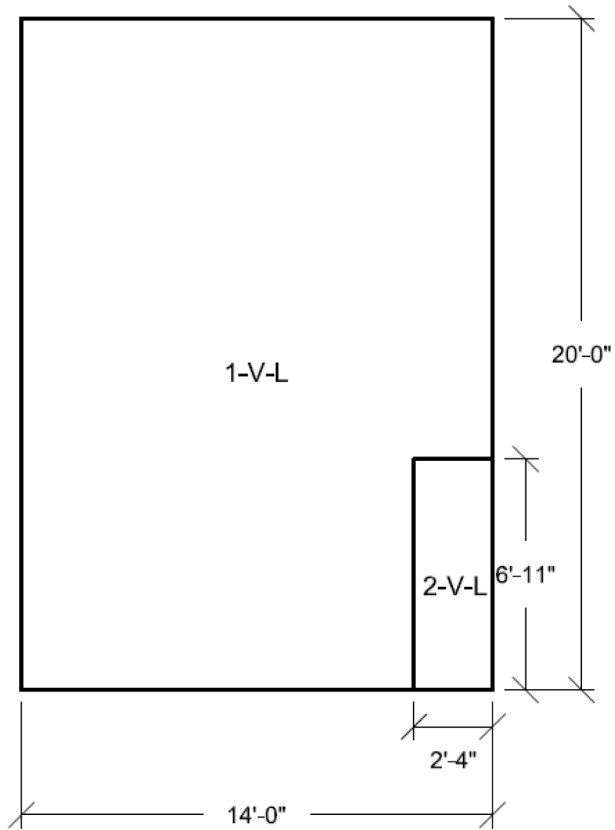


Figure 3H.6-178 DGFOV Wall 10 Looking From Outside Vertical Reinforcement Zones Near Side Face

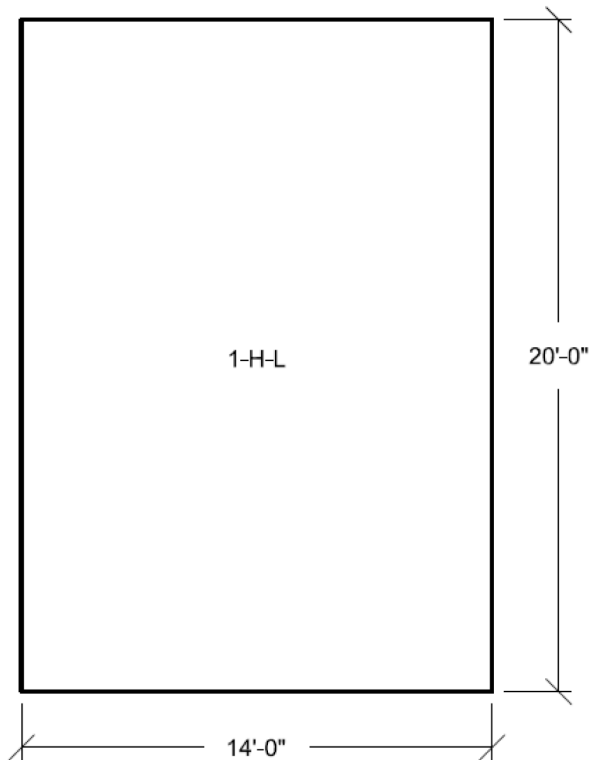


Figure 3H.6-179 DGFOSV Wall 10 Looking From Outside Horizontal Reinforcement Zones Far Side Face

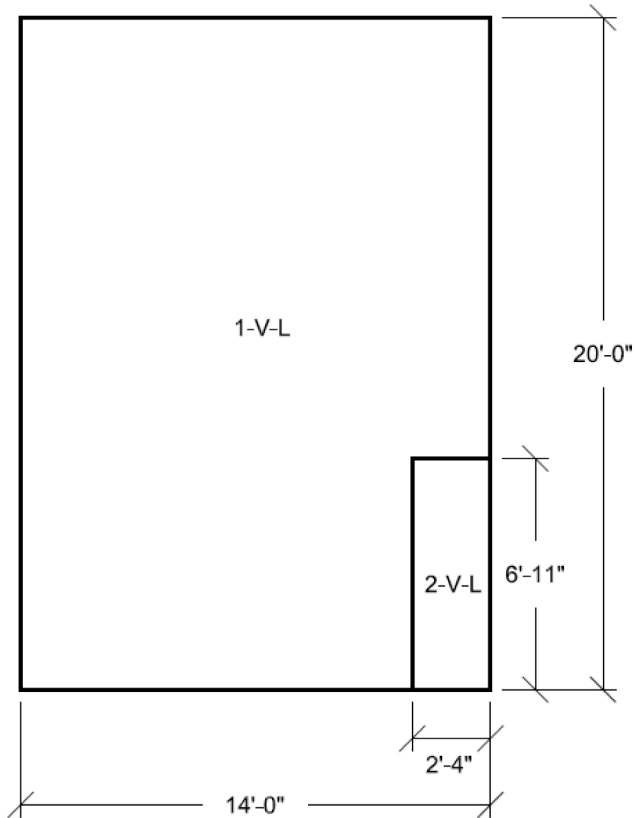


Figure 3H.6-180A DGFOSV Wall 10 Looking From Outside Vertical Reinforcement Zones Far Side Face

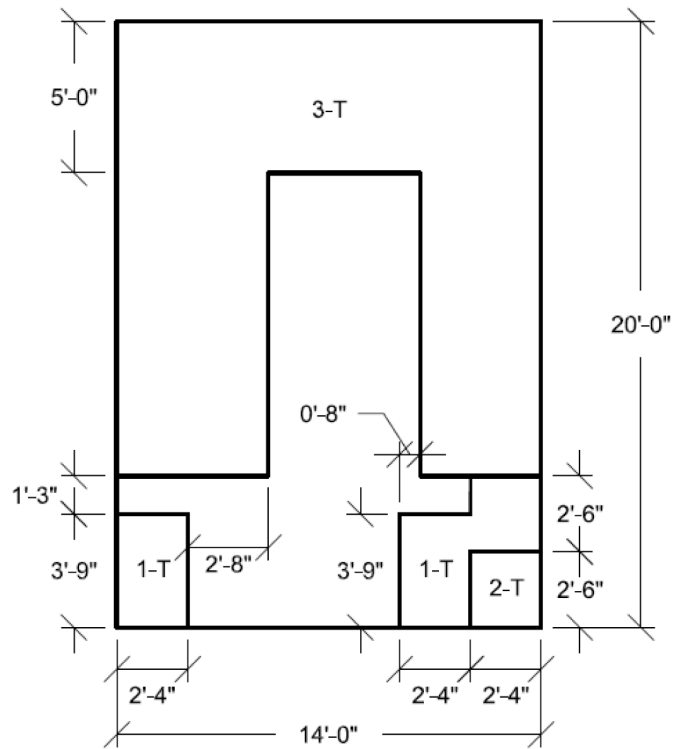


Figure 3H.6-180B DGFOV Wall 10 Looking From Outside Transverse Reinforcement Zones

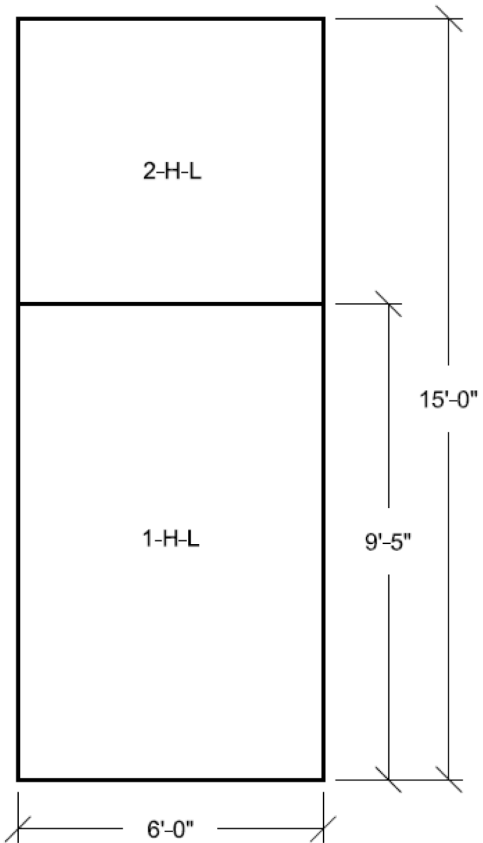


Figure 3H.6-181 DGFOV Wall 11 Looking From Outside  
Horizontal Reinforcement Zones  
Near Side Face

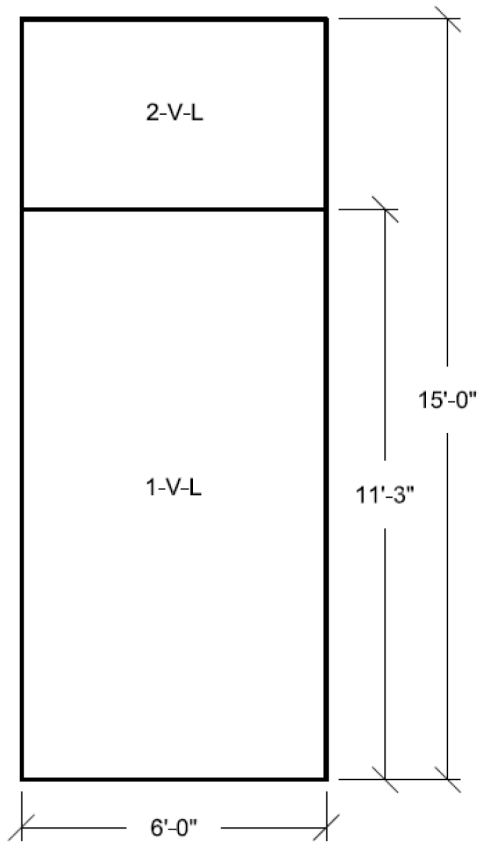


Figure 3H.6-182 DGFOV Wall 11 Looking From Outside  
Vertical Reinforcement Zones  
Near Side Face

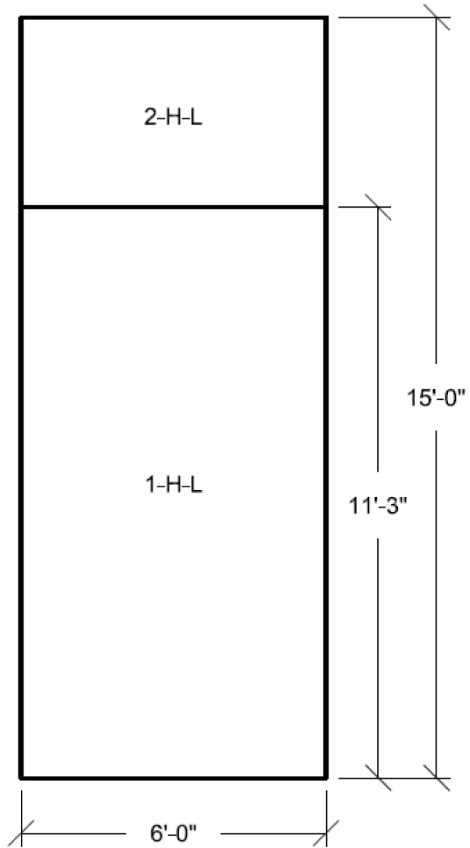
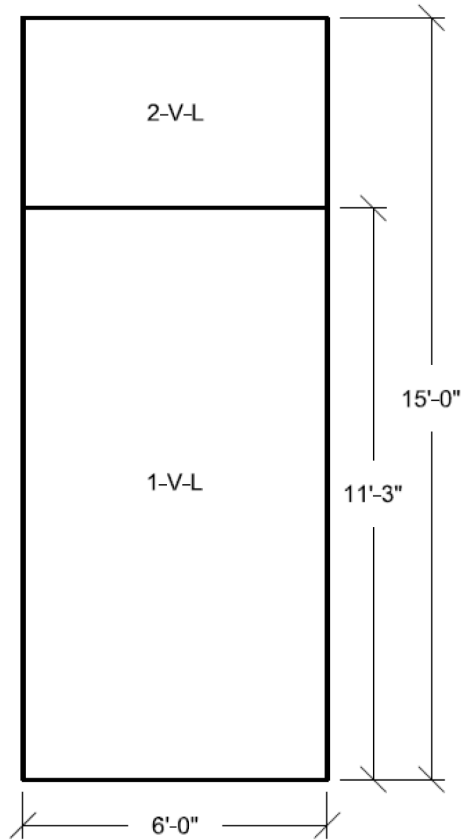


Figure 3H.6-183 DGFOV Wall 11 Looking From Outside  
Horizontal Reinforcement Zones  
Far Side Face



**Figure 3H.6-184 DGFOV Wall 11 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face**



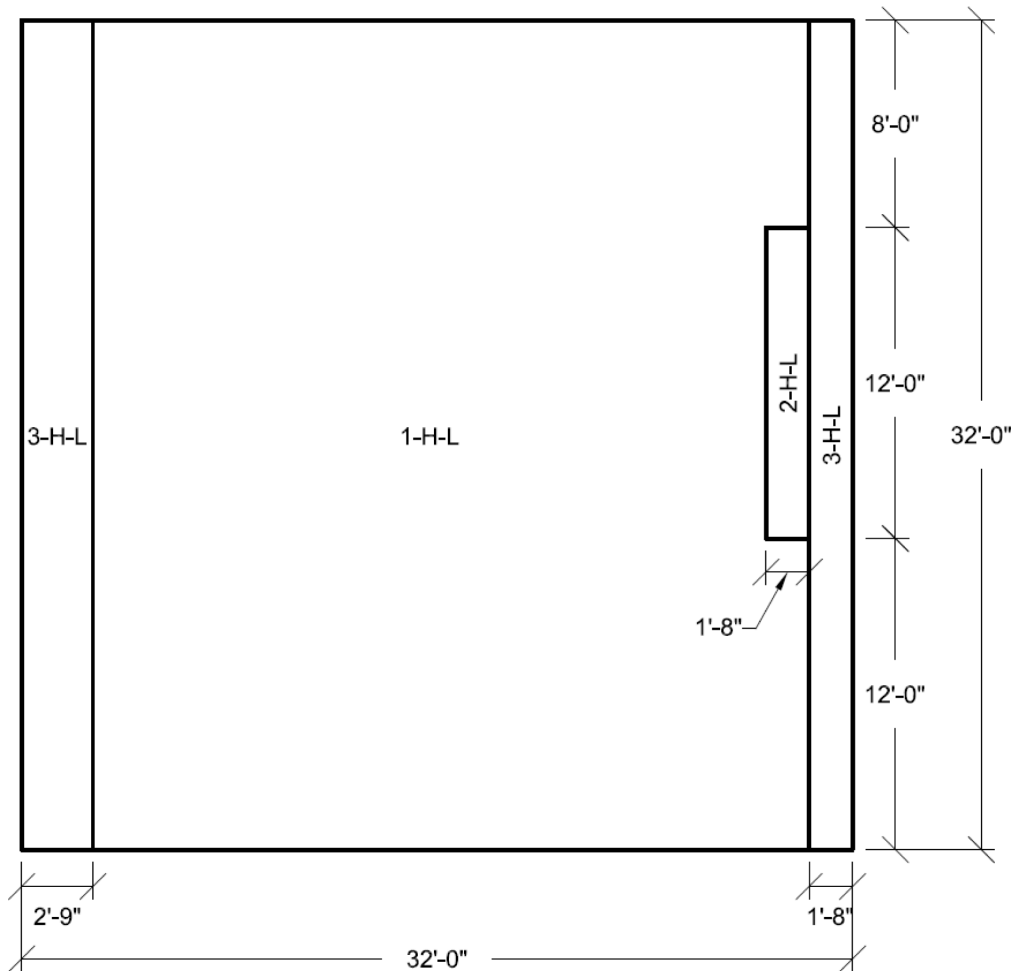


Figure 3H.6-185 DGFOV Wall 12 Looking From Outside  
Horizontal Reinforcement Zones  
Near Side Face

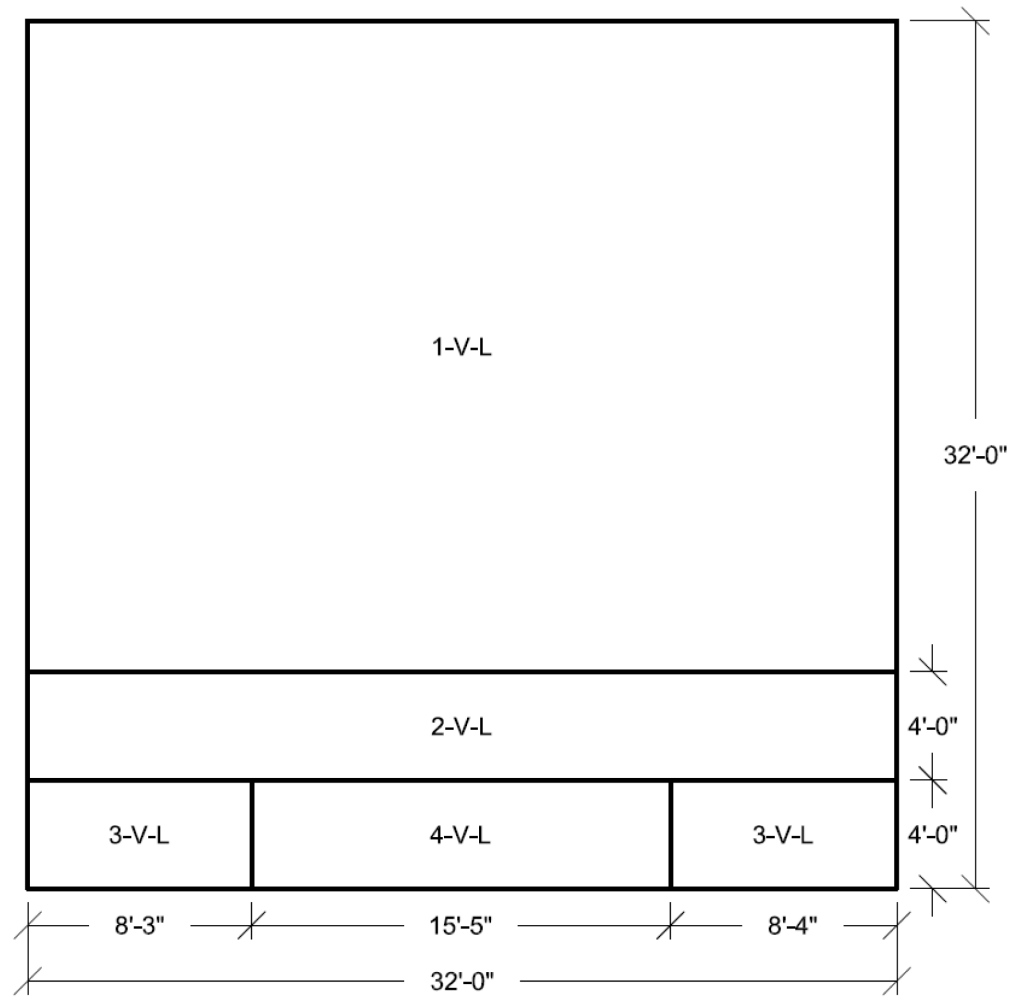


Figure 3H.6-186 DGFOV Wall 12 Looking From Outside Vertical Reinforcement Zones Near Side Face

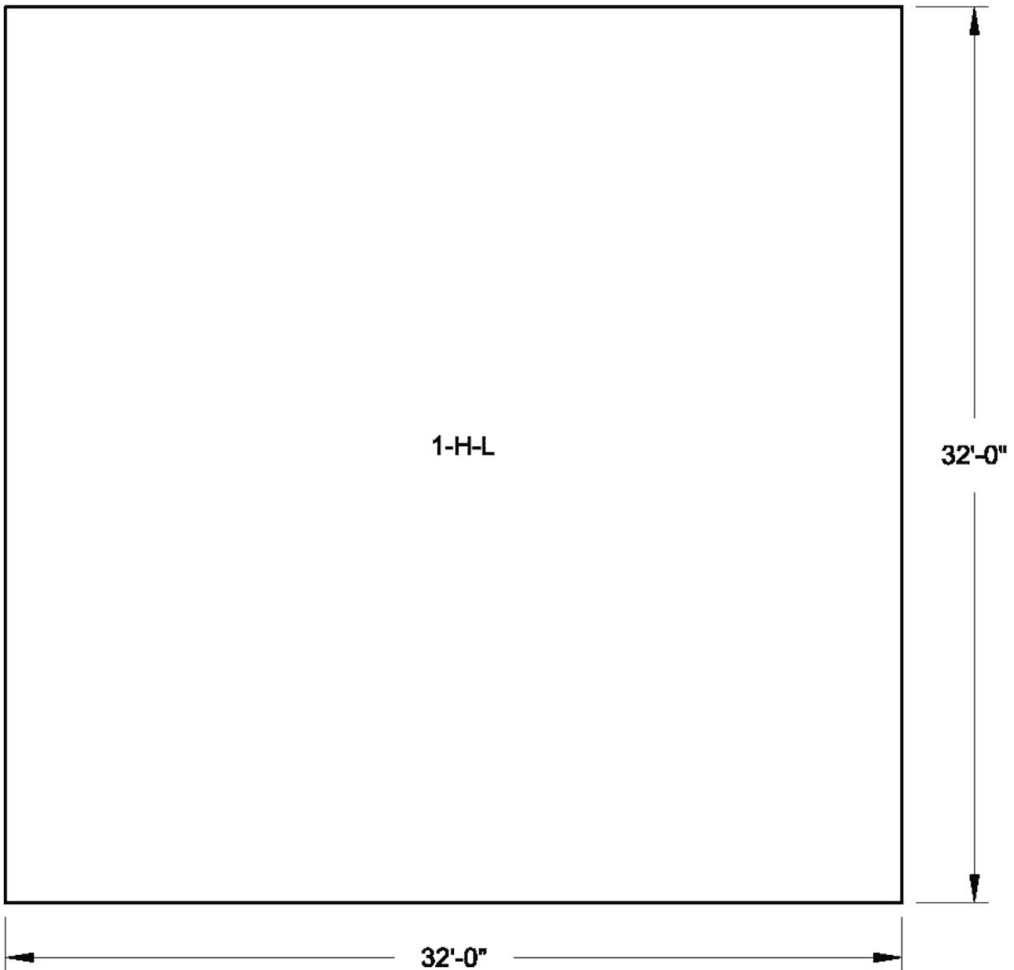


Figure 3H.6-187 DGFOV Wall 12 Looking From Outside  
Horizontal Reinforcement Zones  
Far Side Face

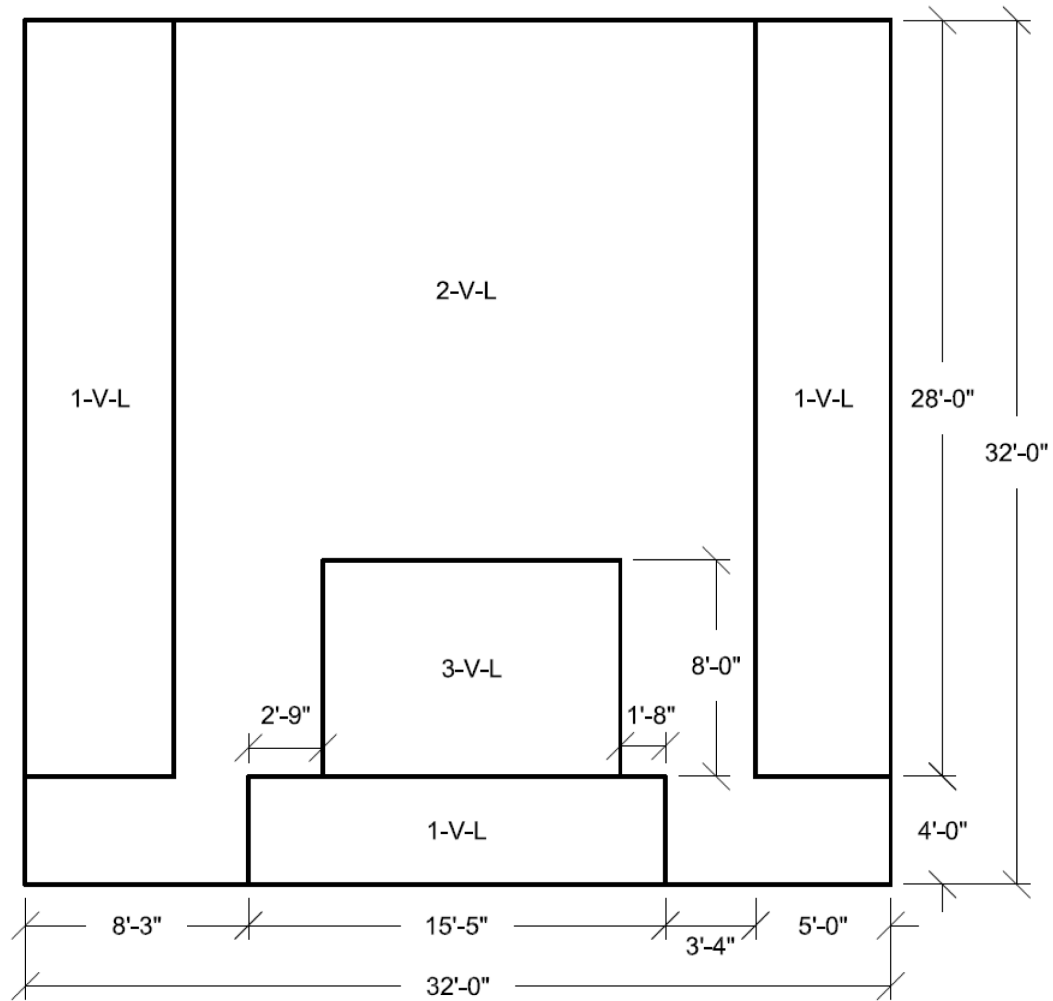


Figure 3H.6-188 DGFOV Wall 12 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face

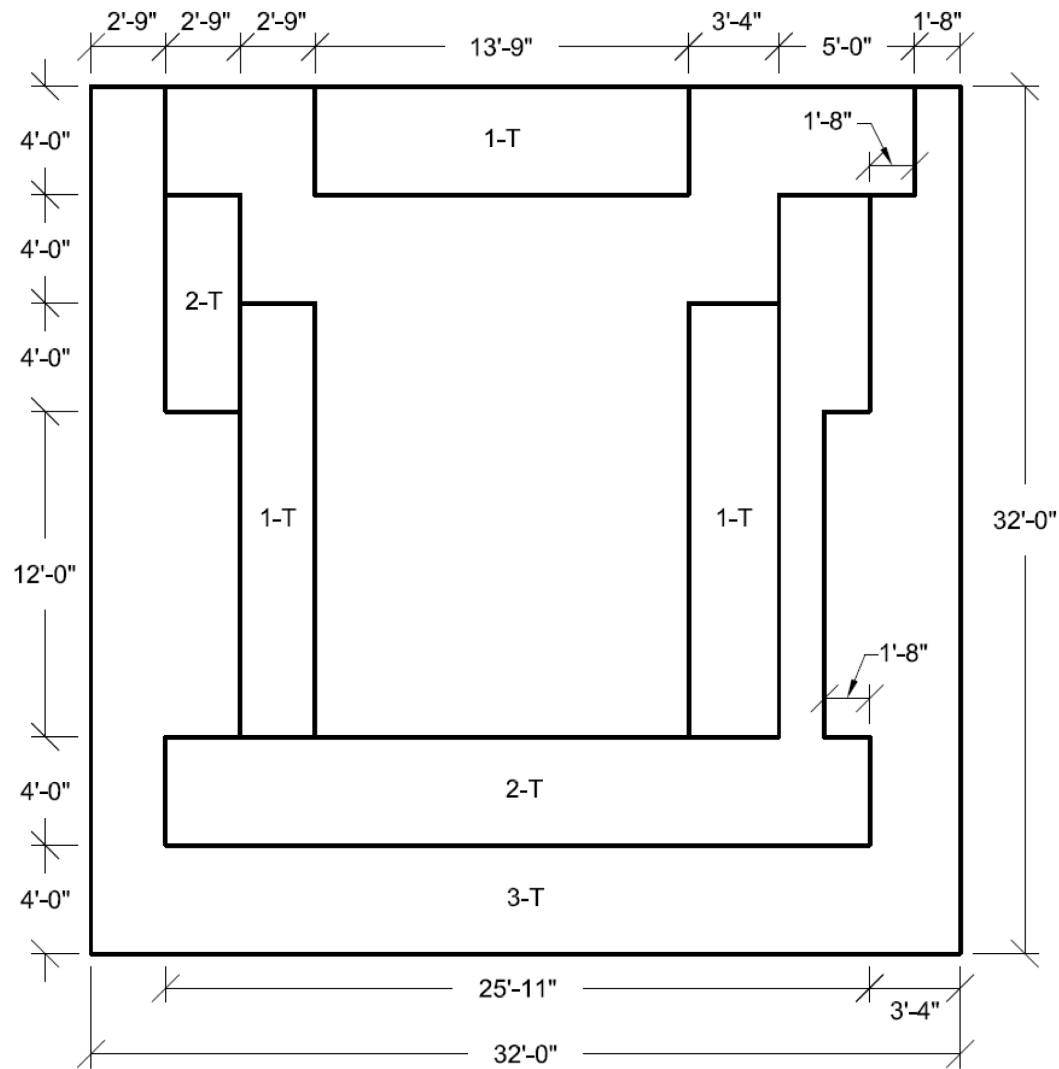
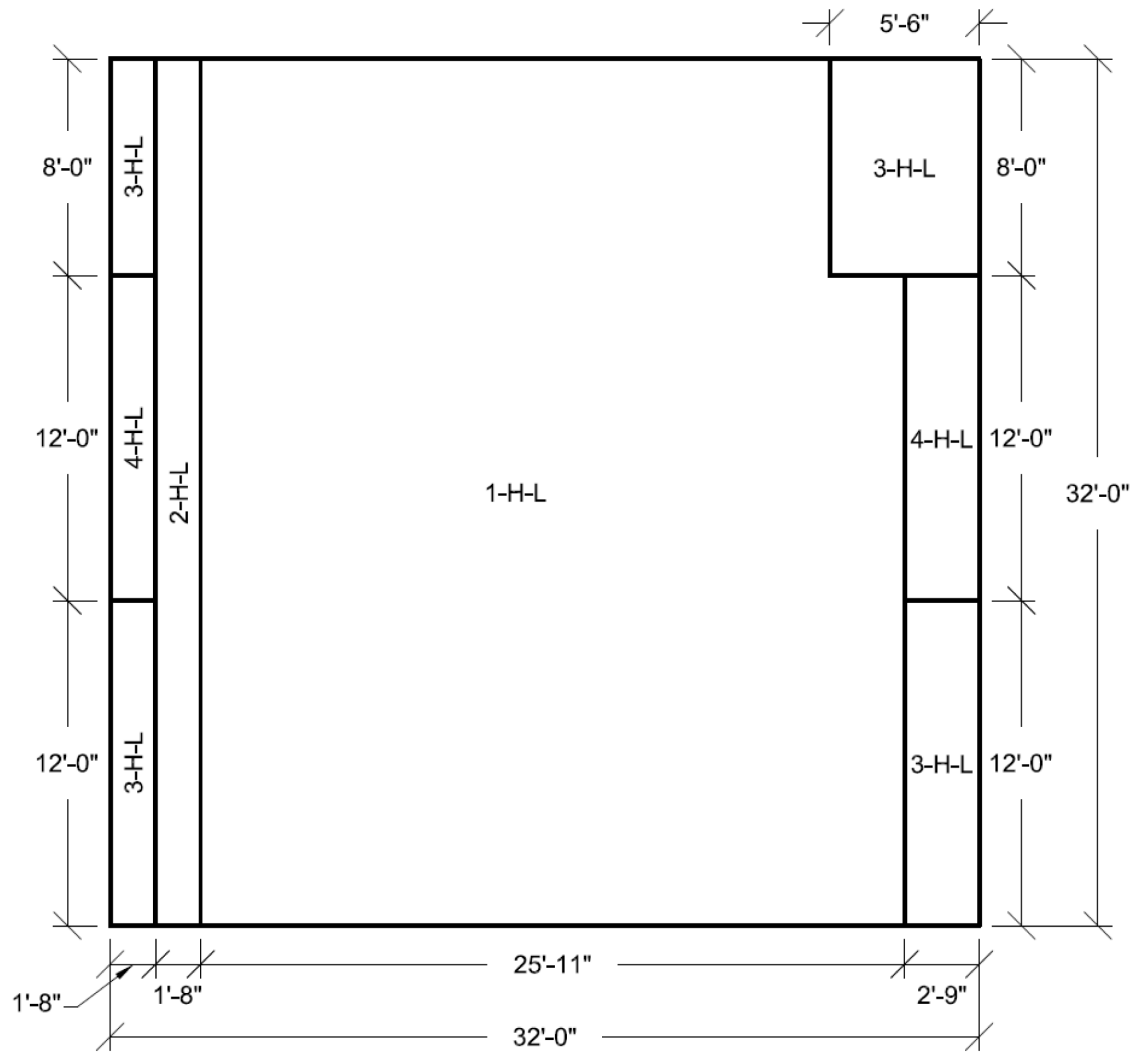


Figure 3H.6-189 DGFOSV Wall 12 Looking From Outside Transverse Reinforcement Zones



**Figure 3H.6-190 DGFSV Wall 13 Looking From Outside Horizontal Reinforcement Zones Near Side Face**

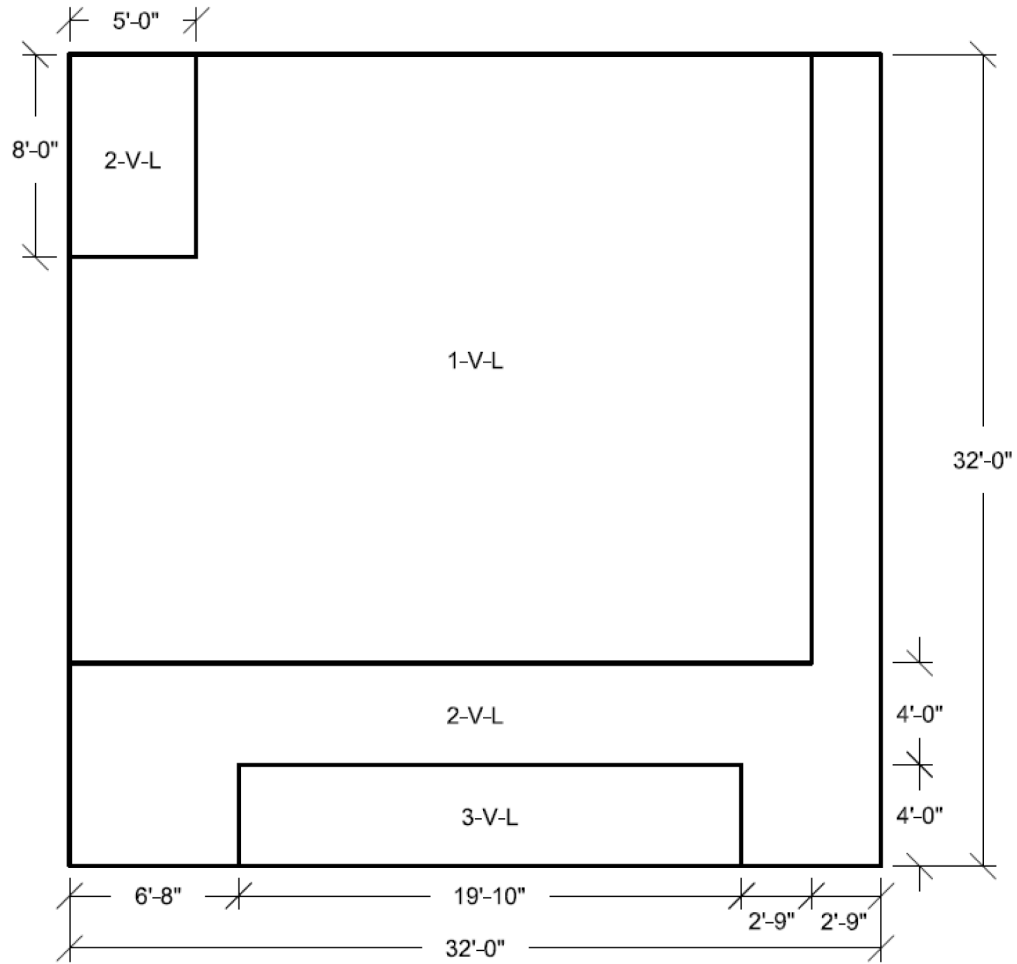


Figure 3H.6-191 DGFOV Wall 13 Looking From Outside Vertical Reinforcement Zones Near Side Face

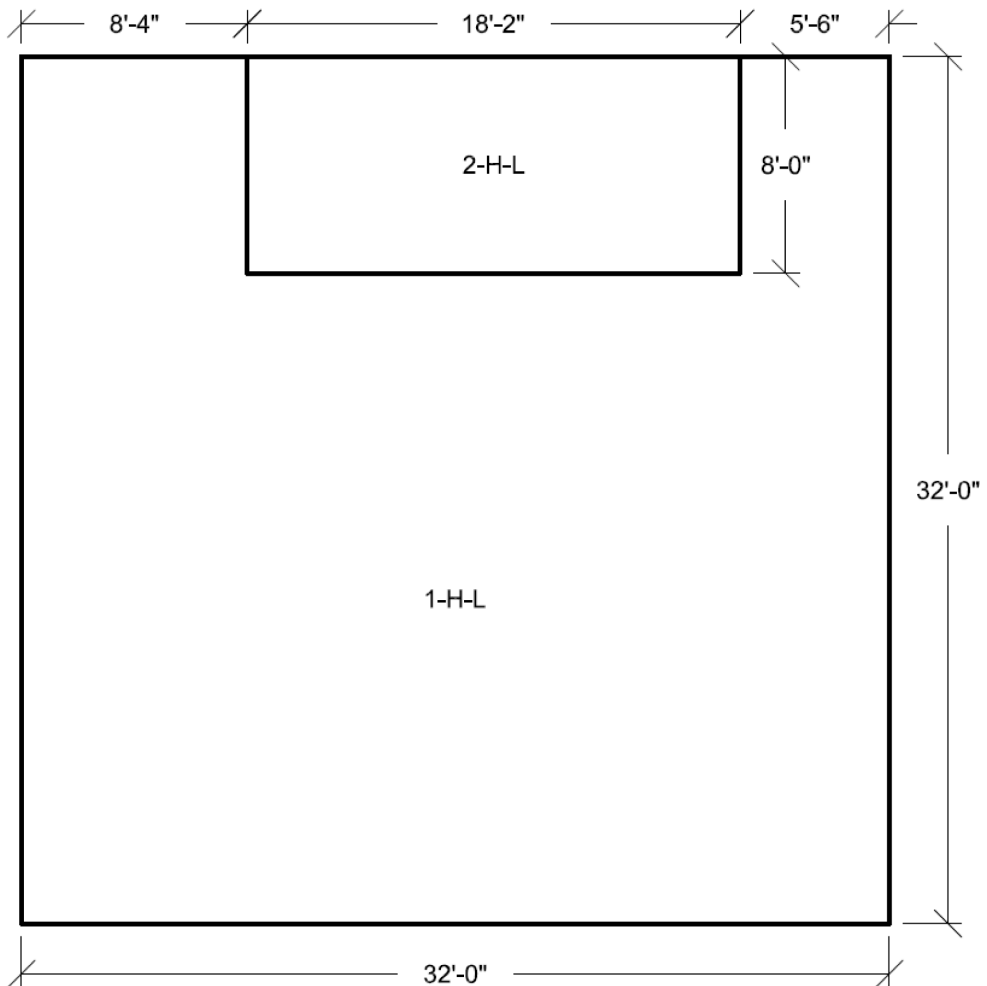


Figure 3H.6-192 DGFOV Wall 13 Looking From Outside  
Horizontal Reinforcement Zones  
Far Side Face



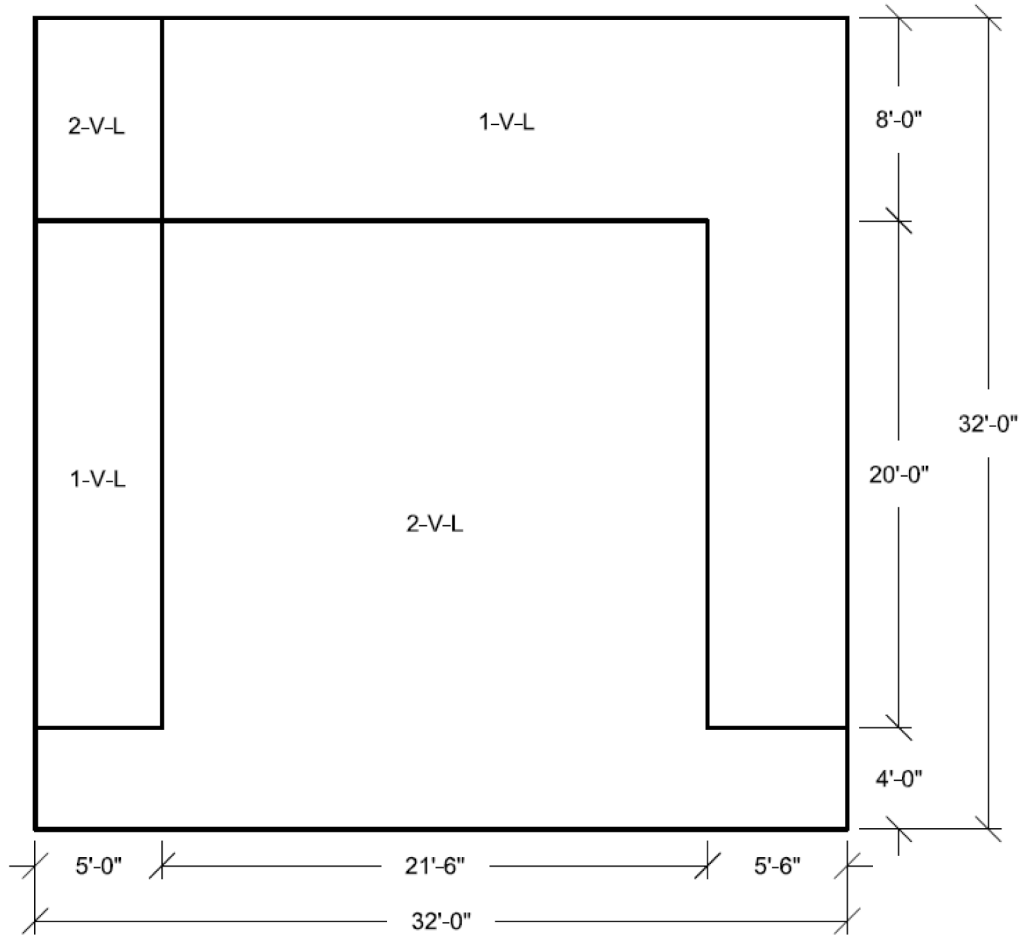


Figure 3H.6-193 DGFOV Wall 13 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face

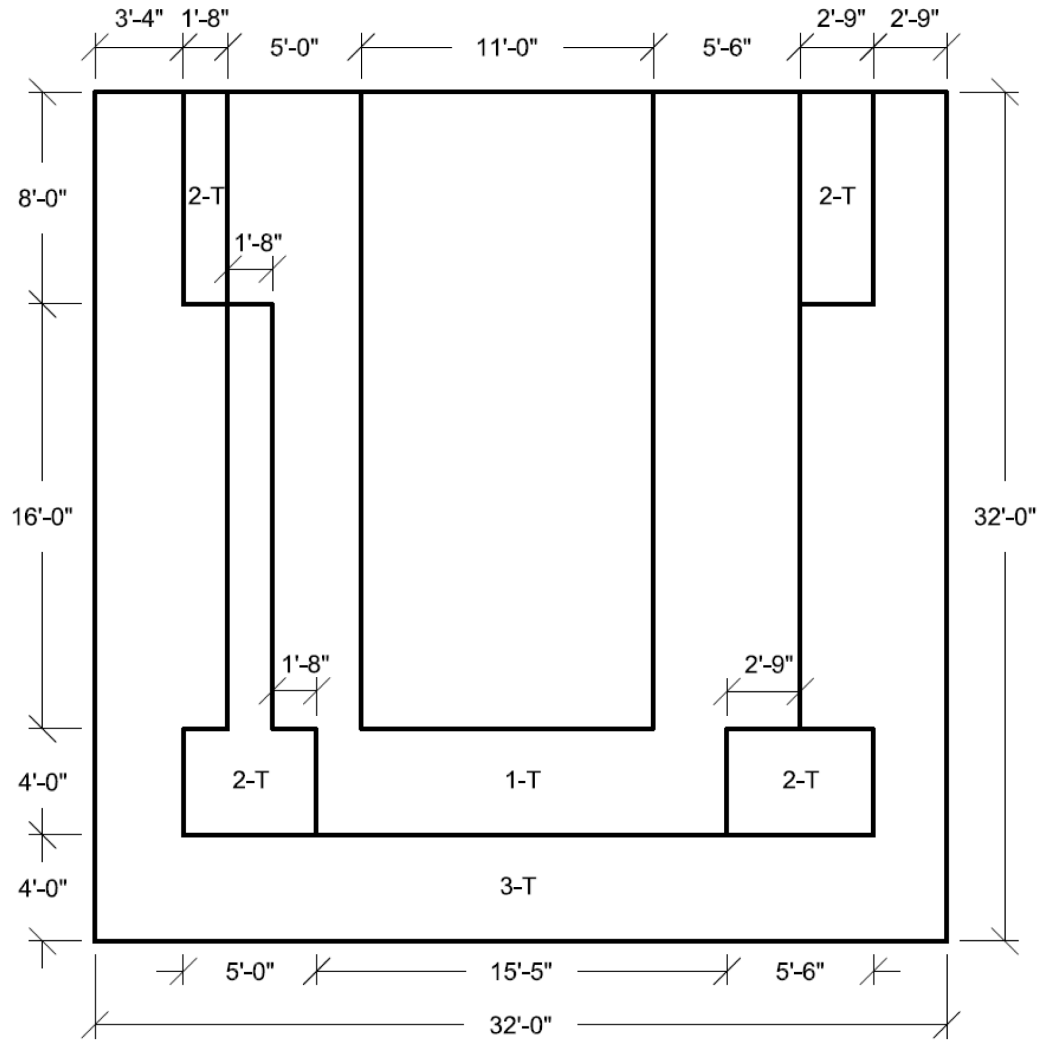


Figure 3H.6-194 DGFOV Wall 13 Looking From Outside  
Transverse Reinforcement Zones

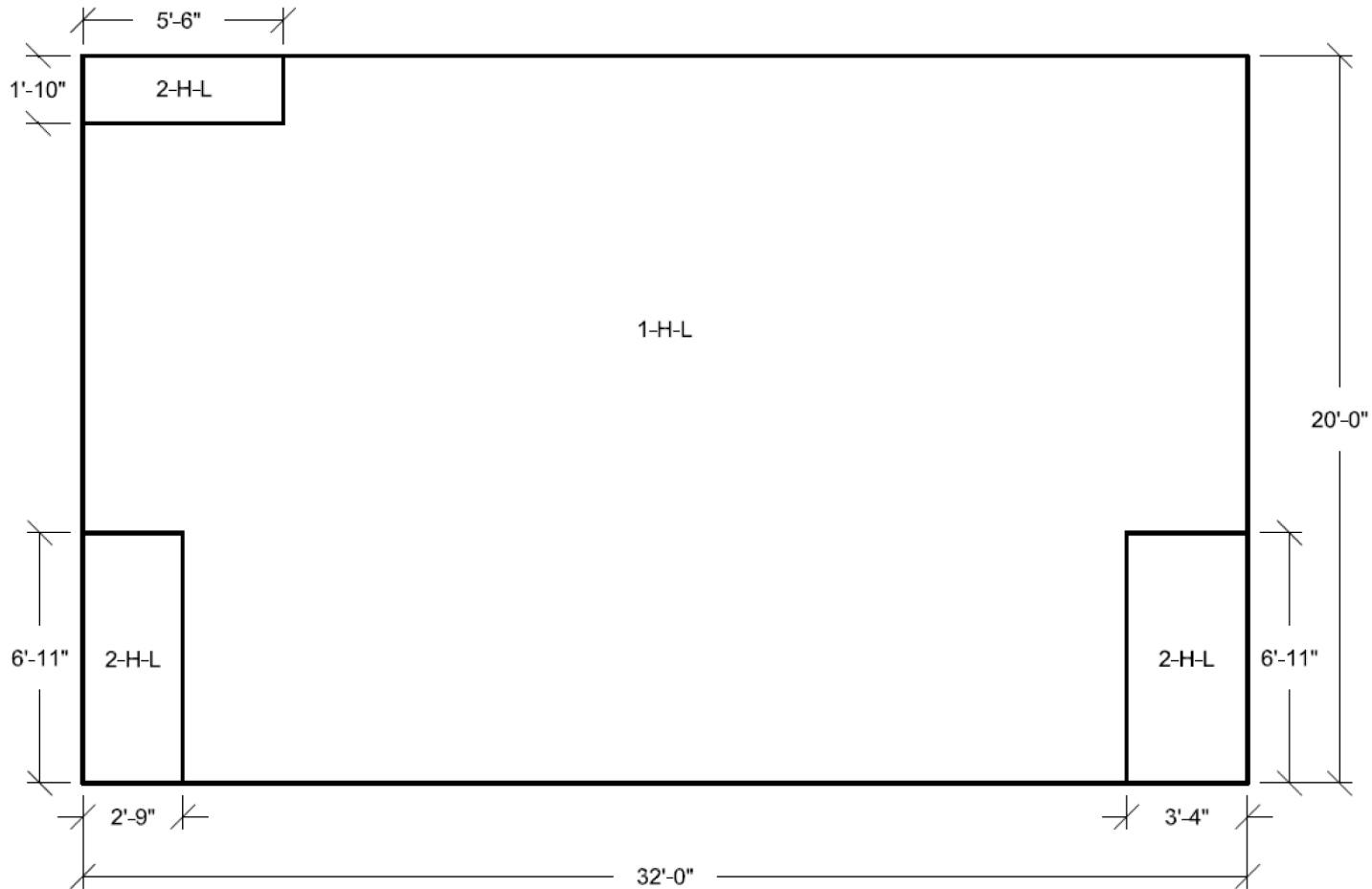


Figure 3H.6-195 DGFOV Wall 14 Looking From Outside  
Horizontal Reinforcement Zones  
Near Side Face

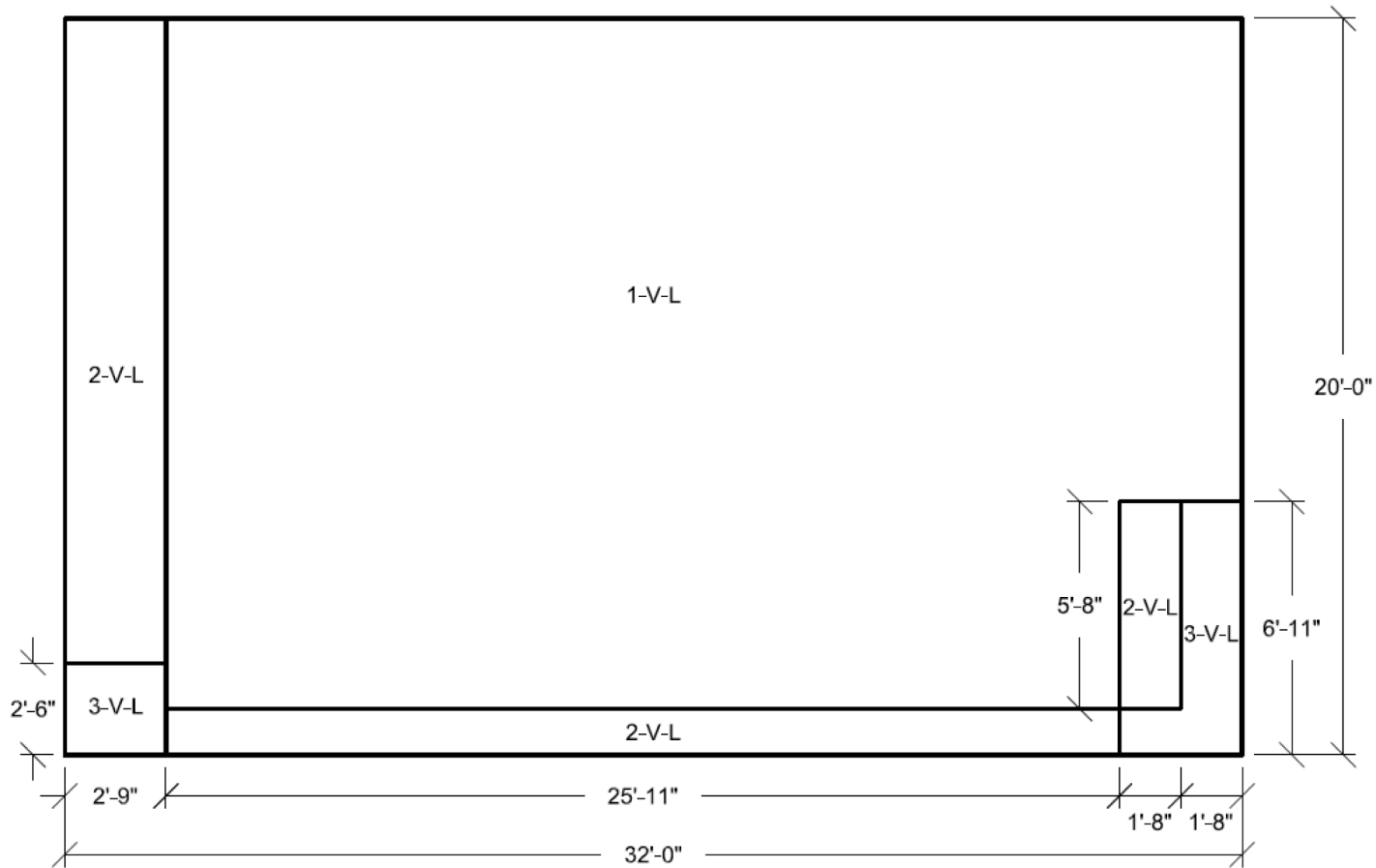


Figure 3H.6-196 DGFOV Wall 14 Looking From Outside  
Vertical Reinforcement Zones  
Near Side Face

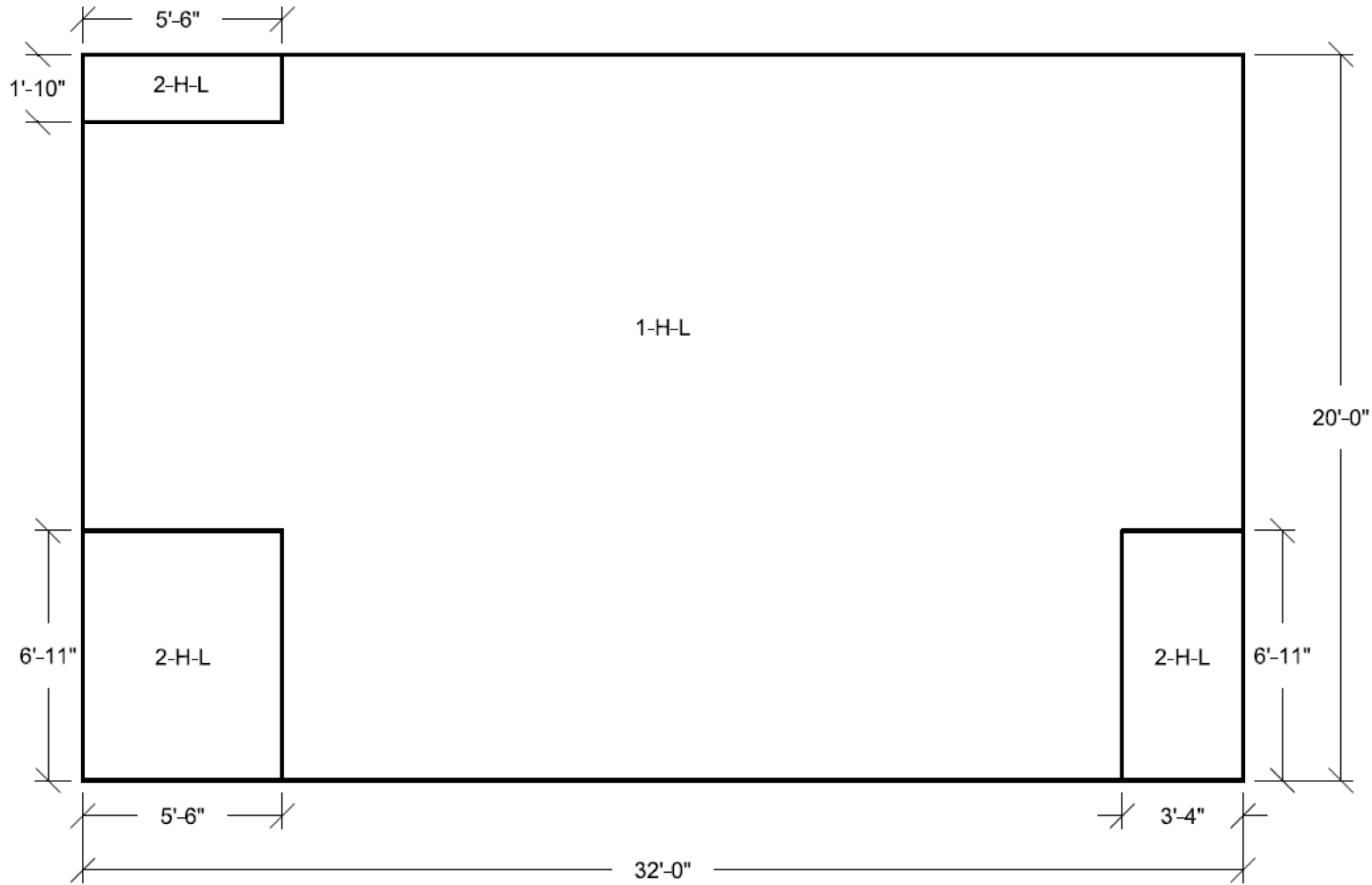


Figure 3H.6-197 DGFOV Wall 14 Looking From Outside  
Horizontal Reinforcement Zones  
Far Side Face

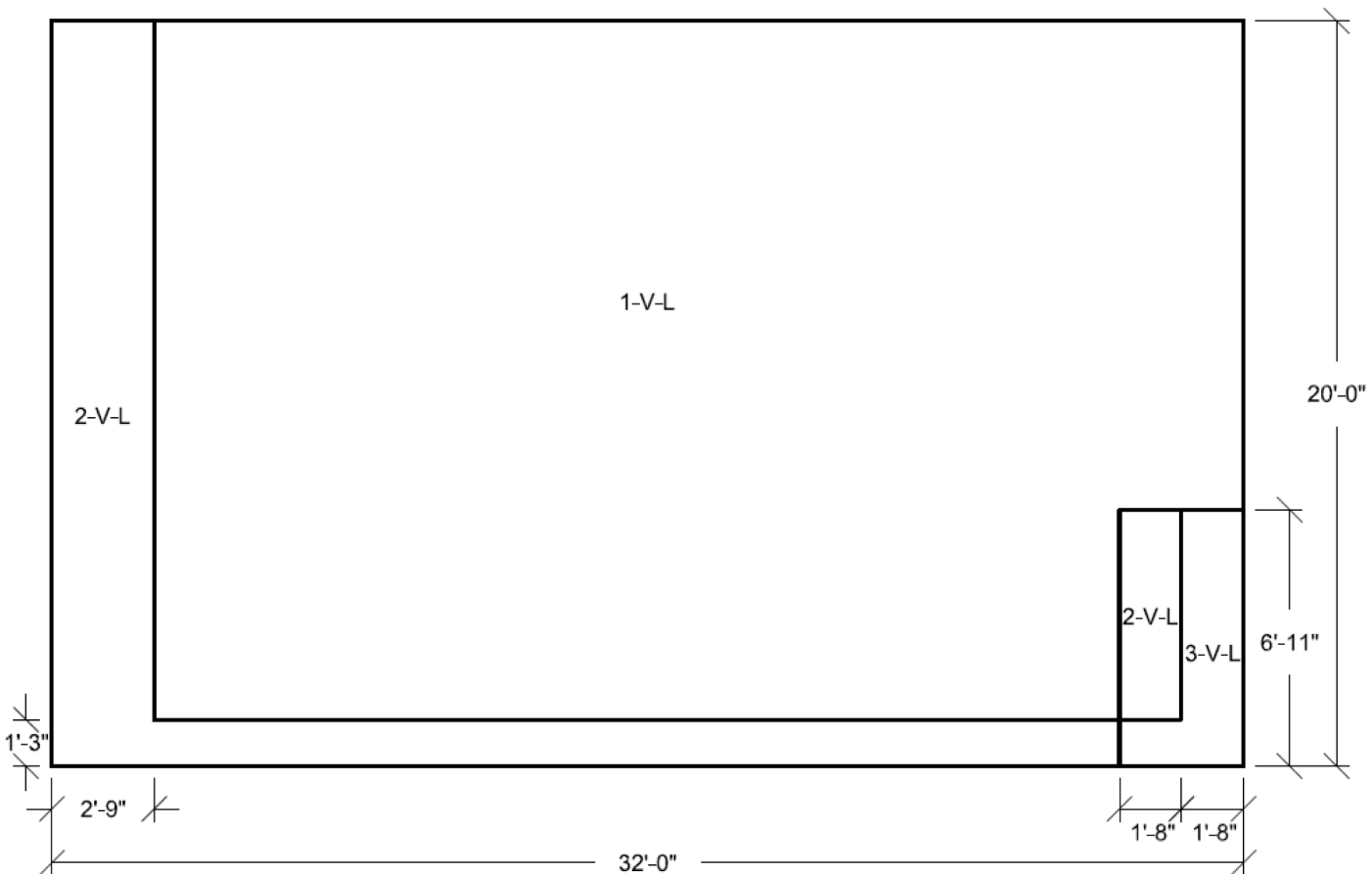


Figure 3H.6-198 DGFOV Wall 14 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face

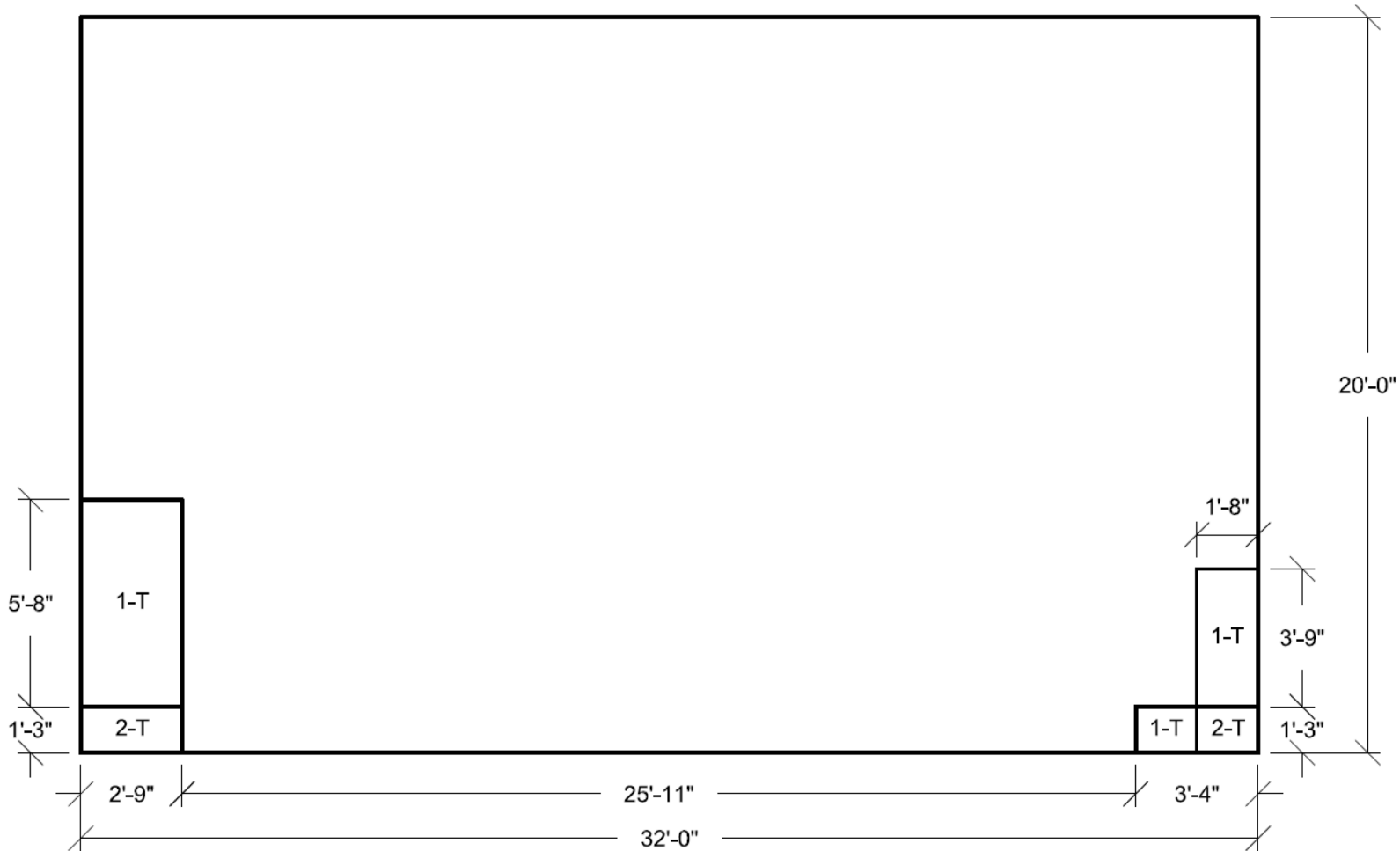


Figure 3H.6-199 DGFOV Wall 14 Looking From Outside  
Transverse Reinforcement Zones

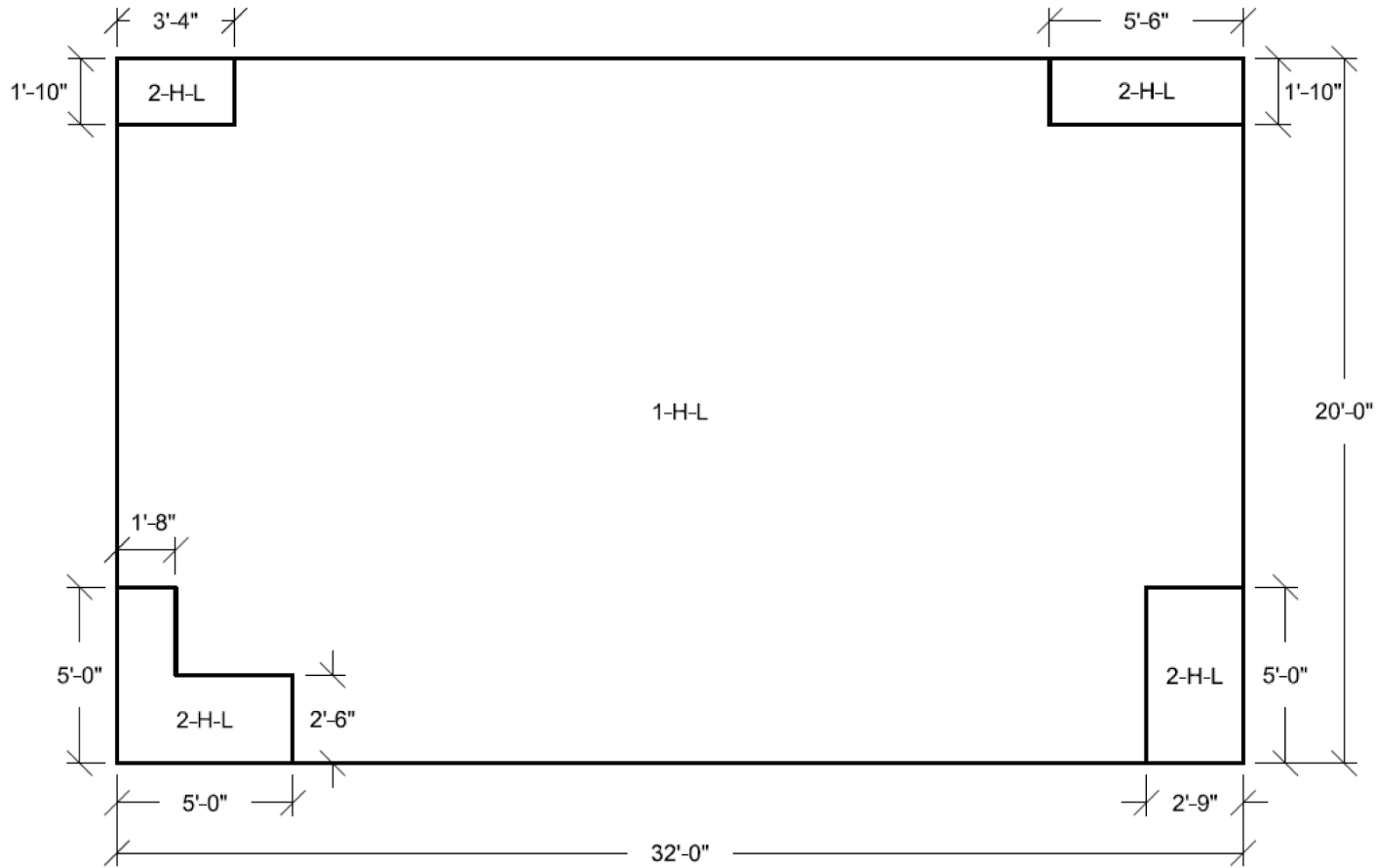


Figure 3H.6-200 DGFOV Wall 15 Looking From Outside  
Horizontal Reinforcement Zones  
Near Side Face



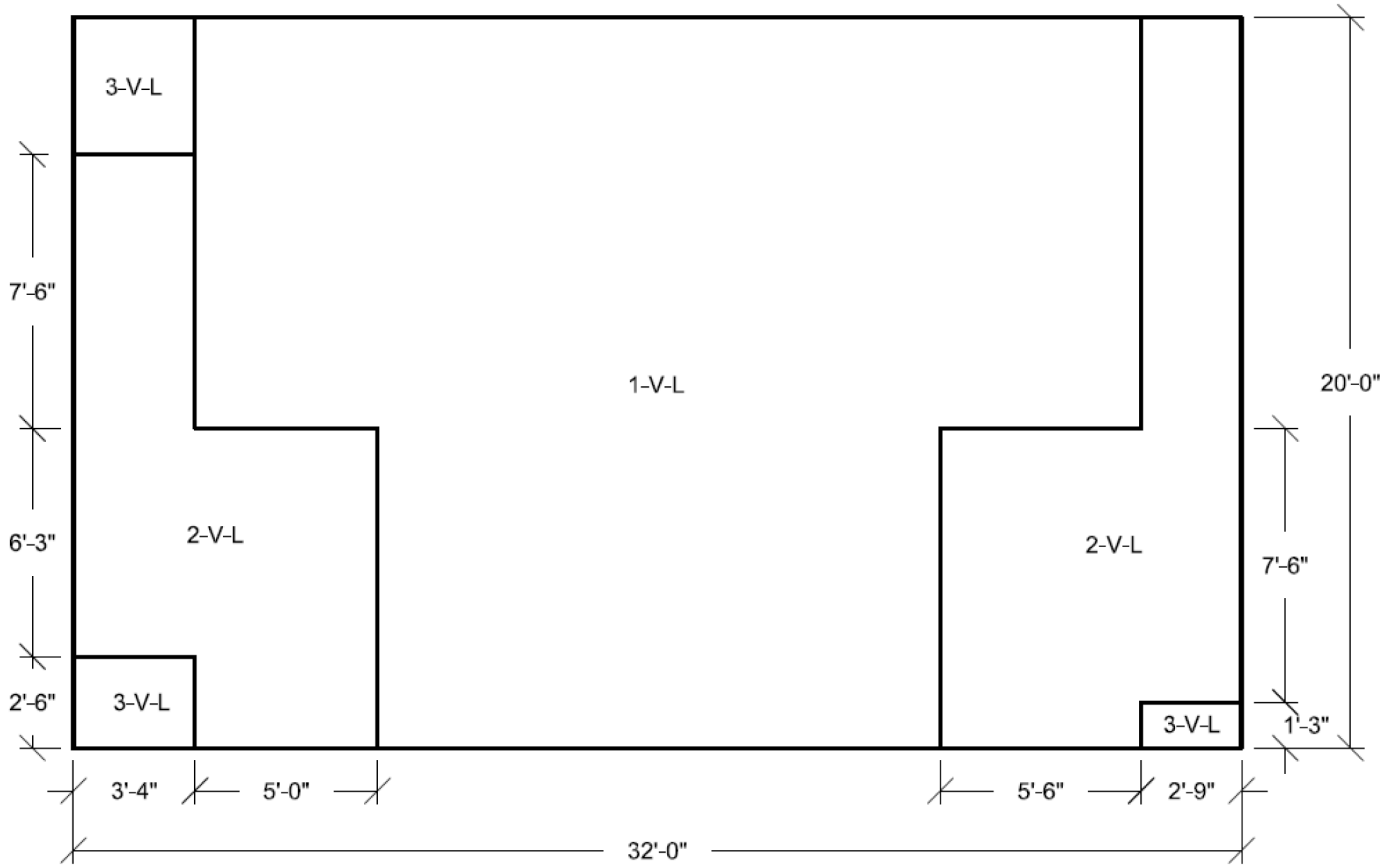


Figure 3H.6-201 DGFOV Wall 15 Looking From Outside  
Vertical Reinforcement Zones  
Near Side Face

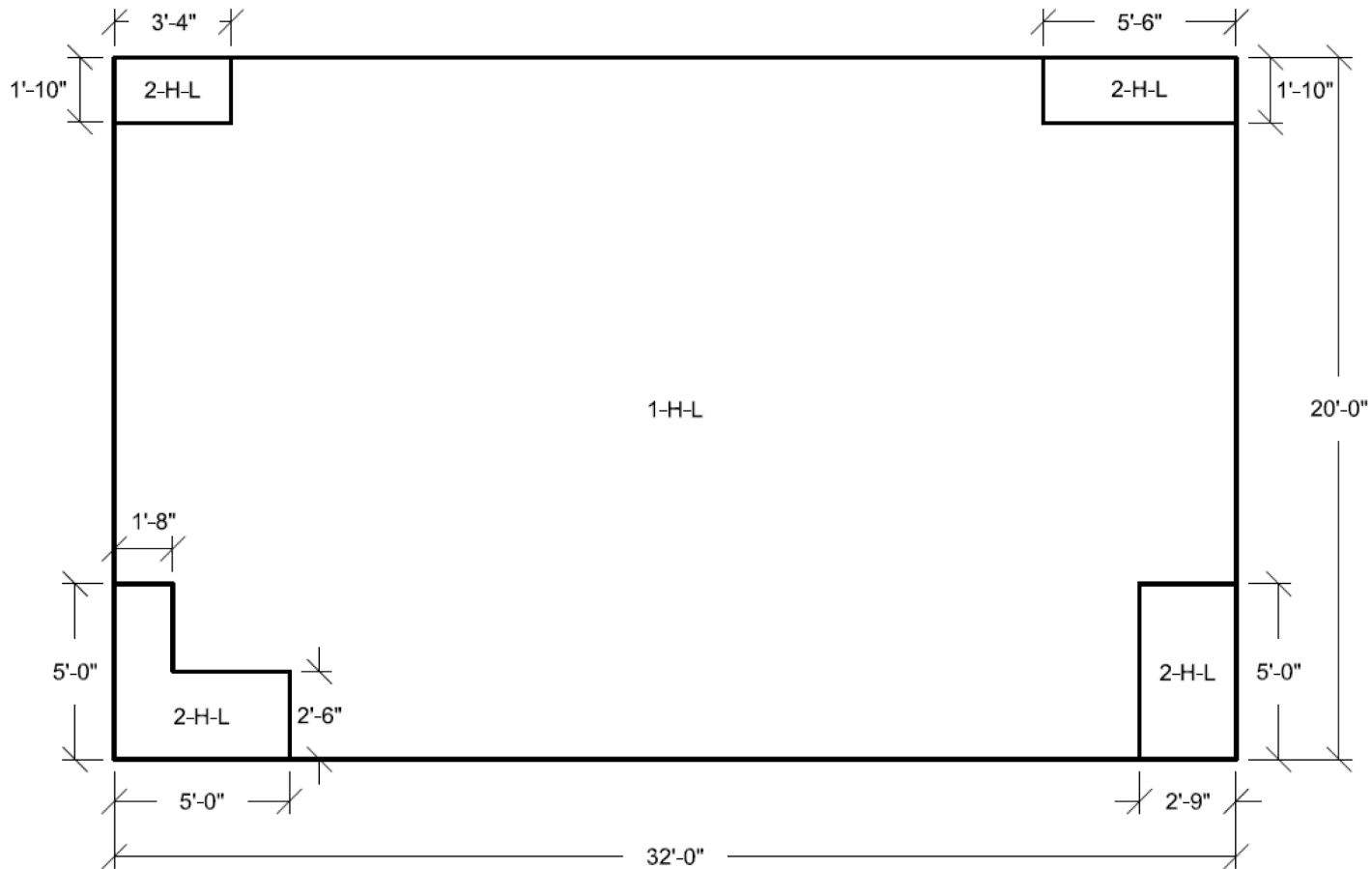


Figure 3H.6-202 DGFOV Wall 15 Looking From Outside  
Horizontal Reinforcement Zones  
Far Side Face

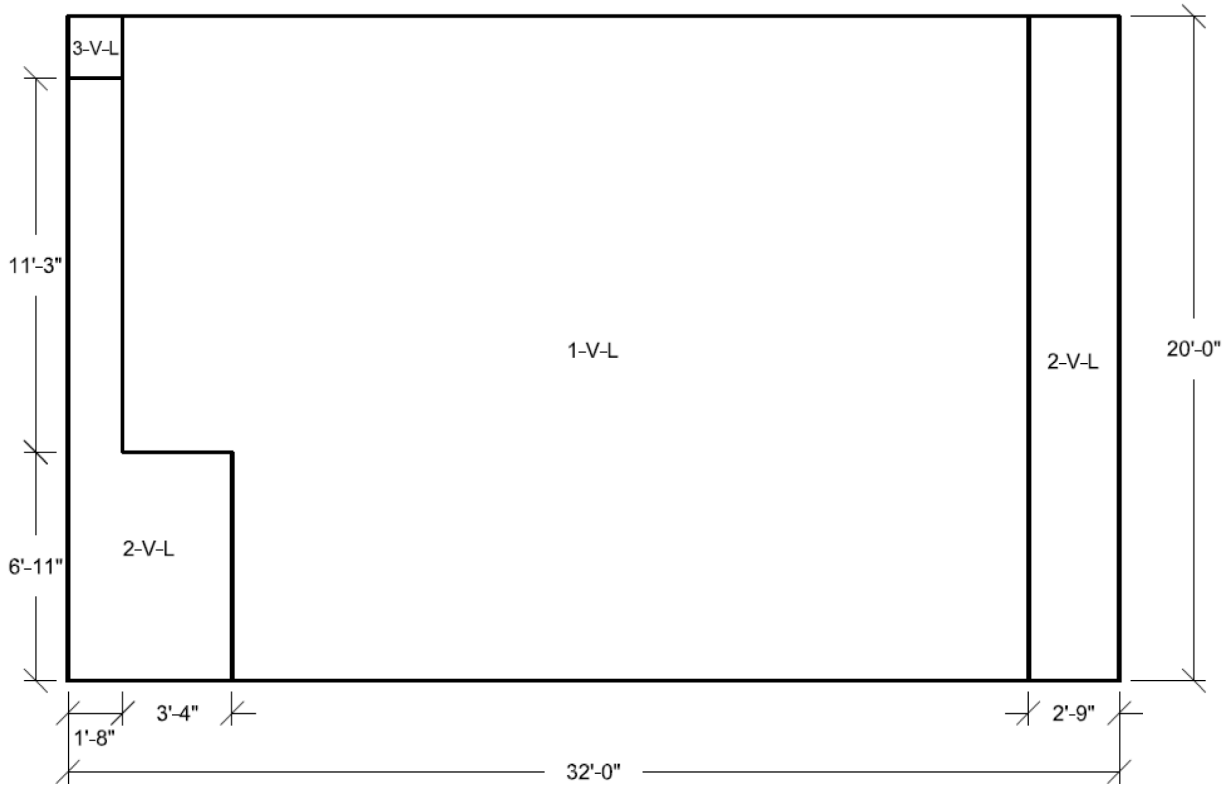
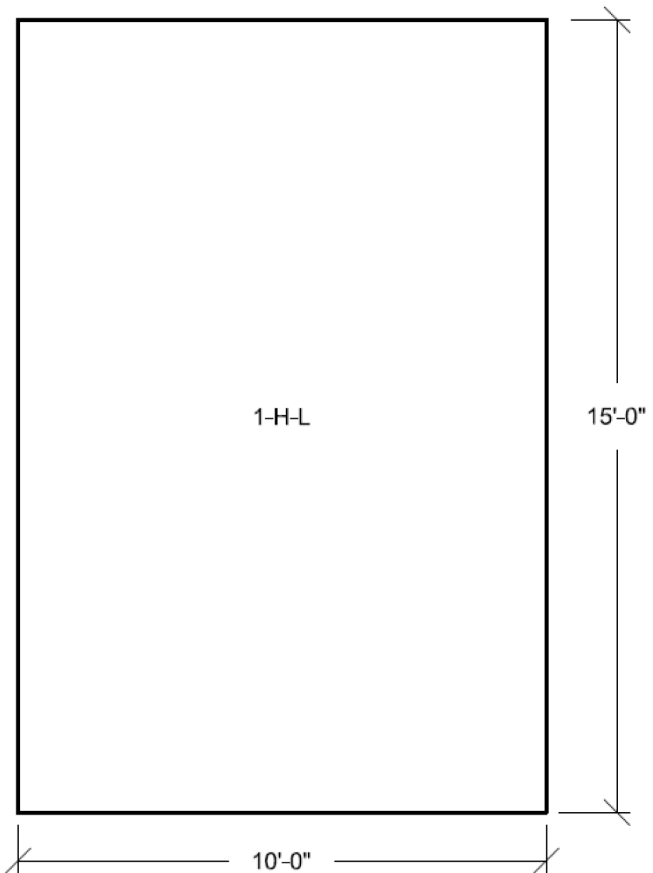


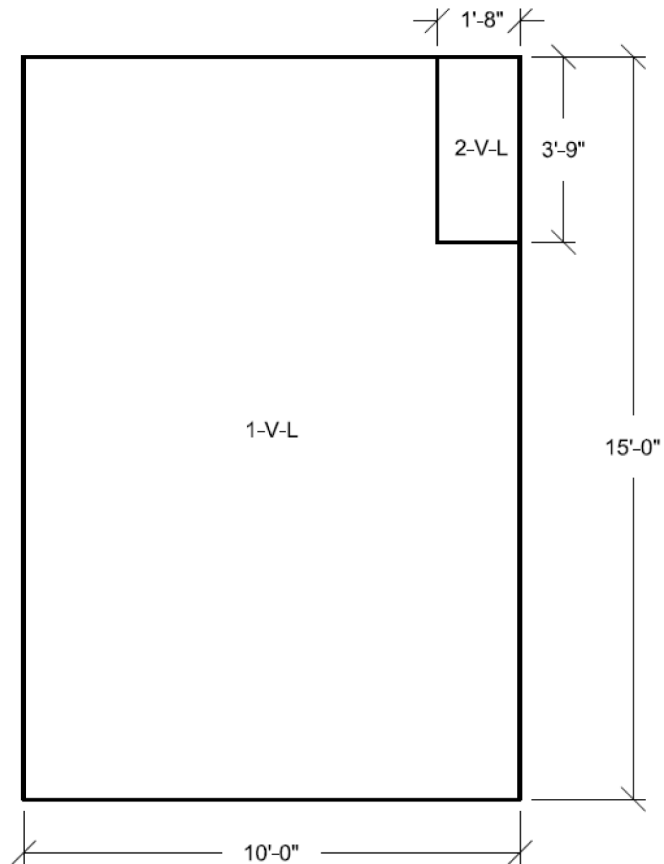
Figure 3H.6-203A DGFOSV Wall 15 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face



Figure 3H.6-203B DGFOSV Wall 15 Looking From Outside  
Transverse Reinforcement Zones



**Figure 3H.6-204 DGFOV Wall 16 Looking From Outside  
Horizontal Reinforcement Zones  
Near Side Face**



**Figure 3H.6-205 DGFOV Wall 16 Looking From Outside  
Vertical Reinforcement Zones  
Near Side Face**

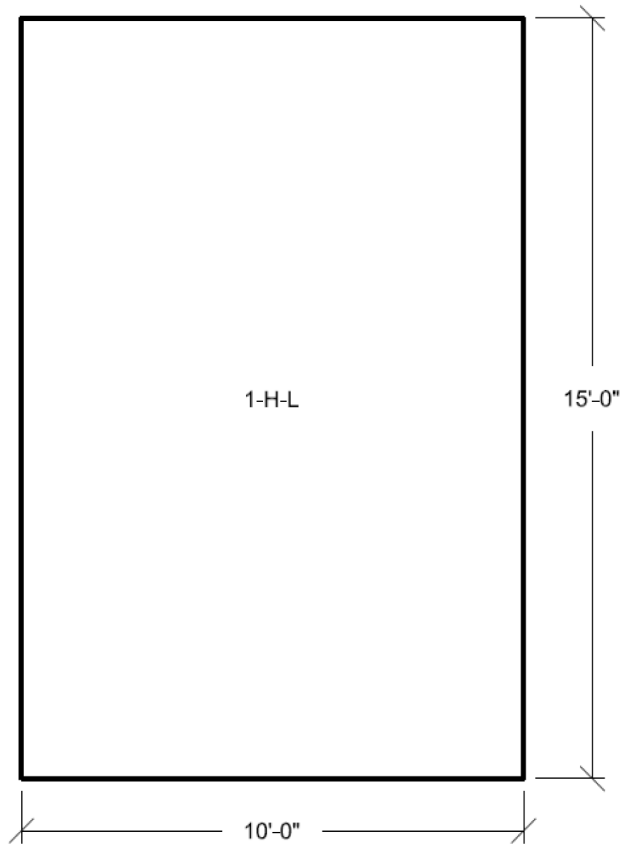
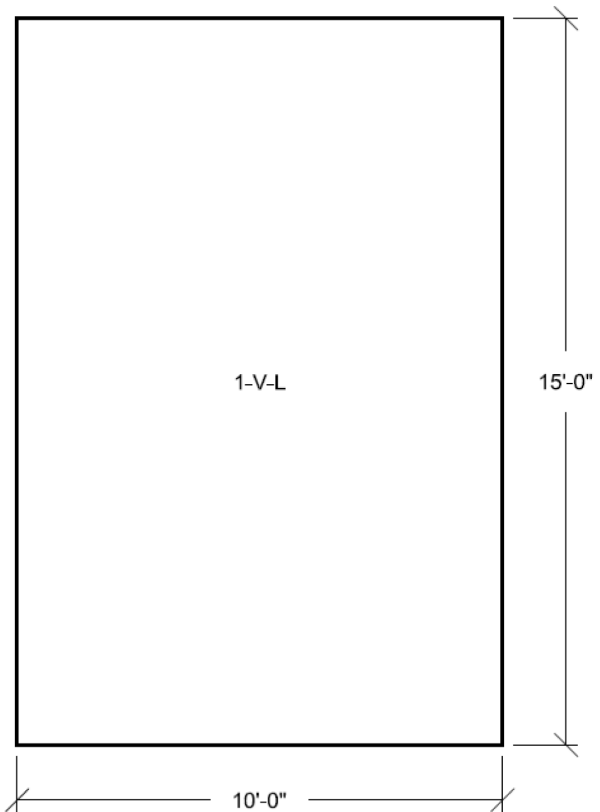


Figure 3H.6-206 DGFOV Wall 16 Looking From Outside  
Horizontal Reinforcement Zones  
Far Side Face



**Figure 3H.6-207 DGFOV Wall 16 Looking From Outside  
Vertical Reinforcement Zones  
Far Side Face**



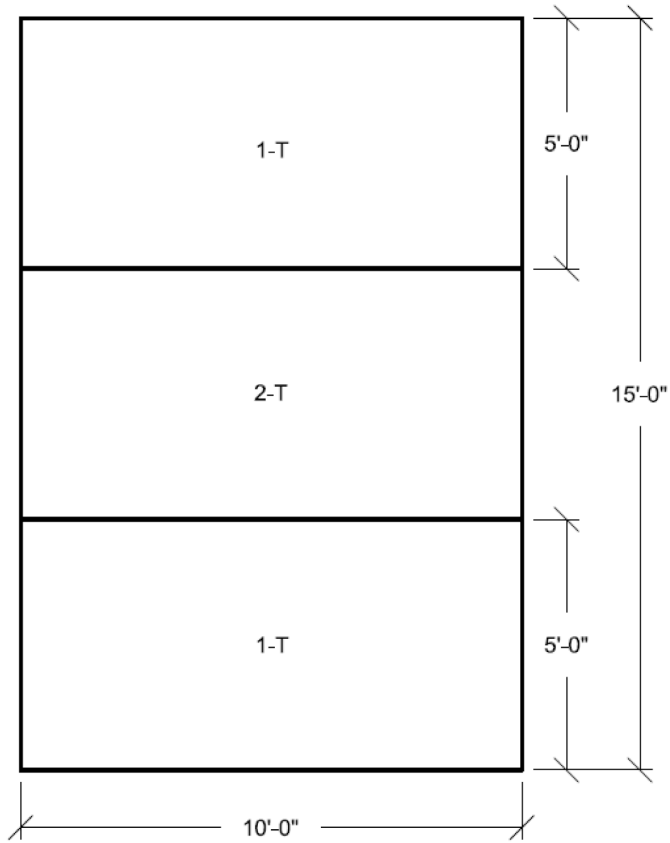


Figure 3H.6-208 DGFOSV Wall 16 Looking From Outside Transverse Reinforcement Zones

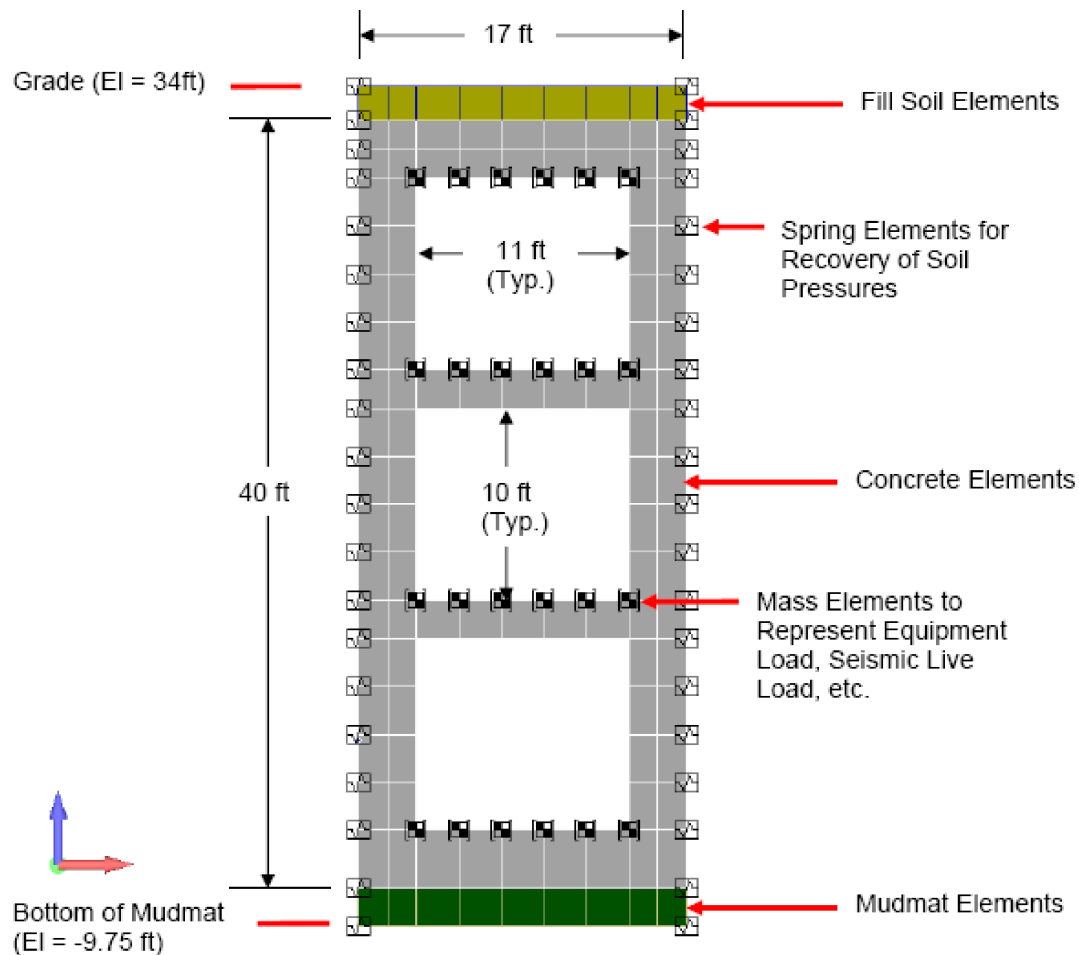
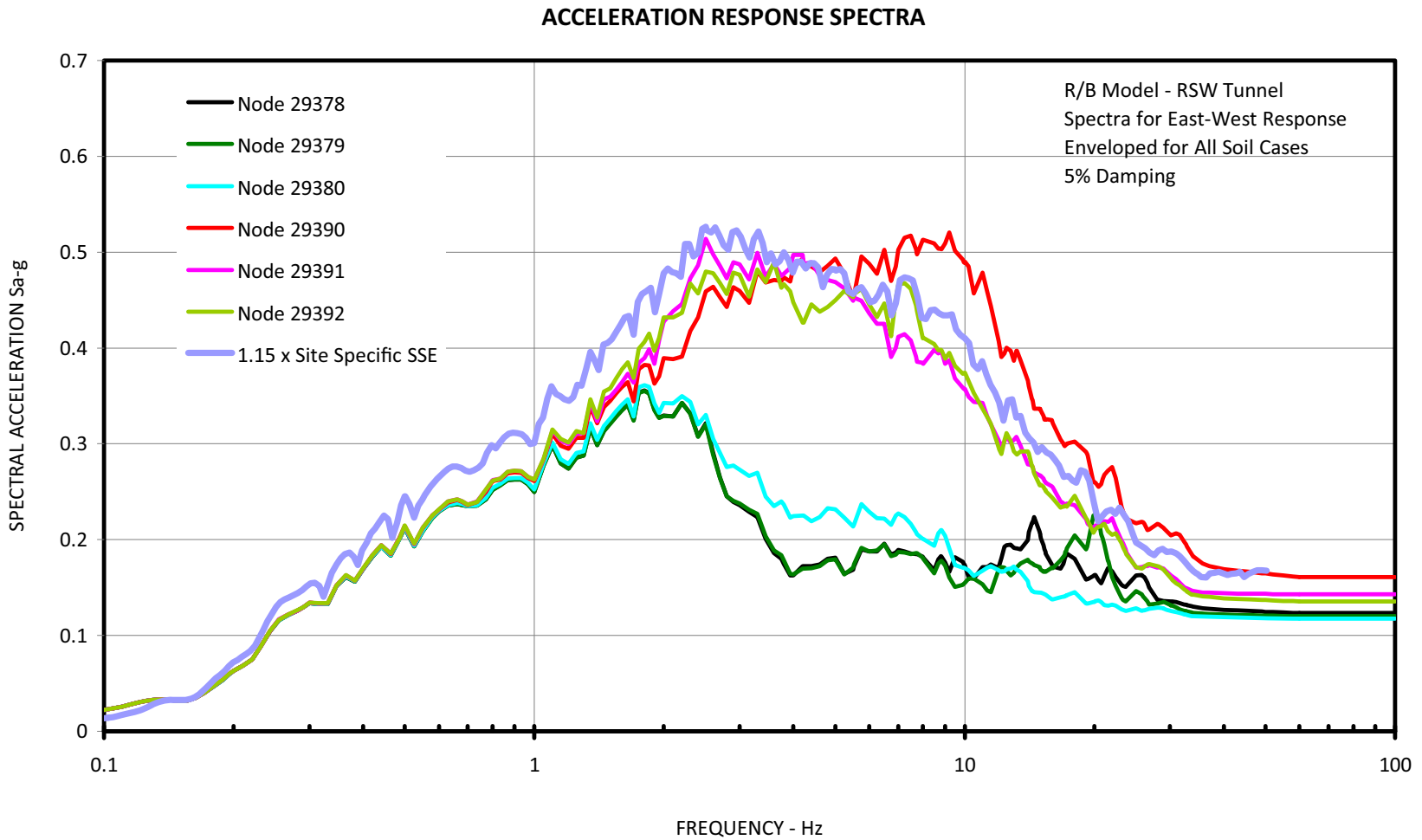
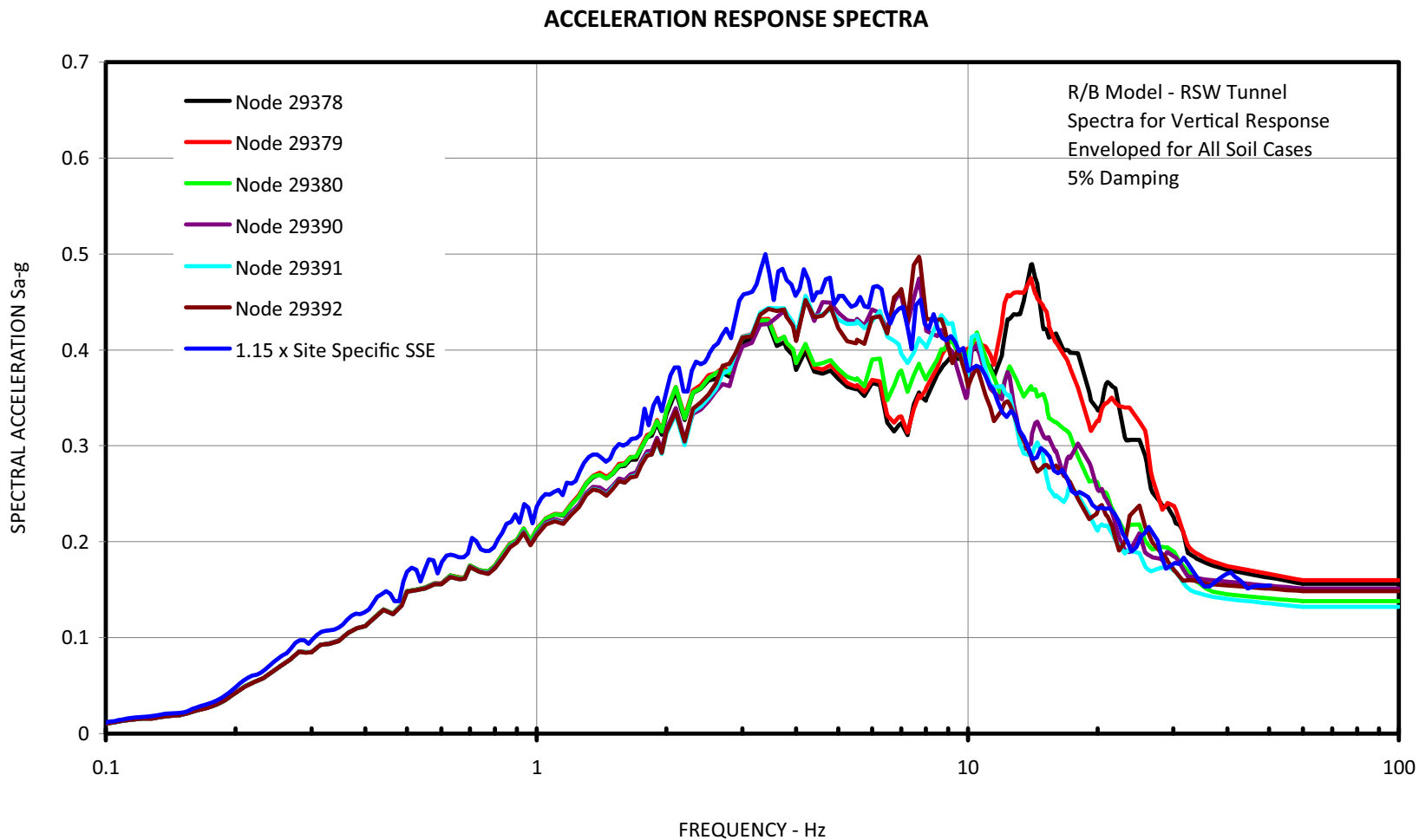


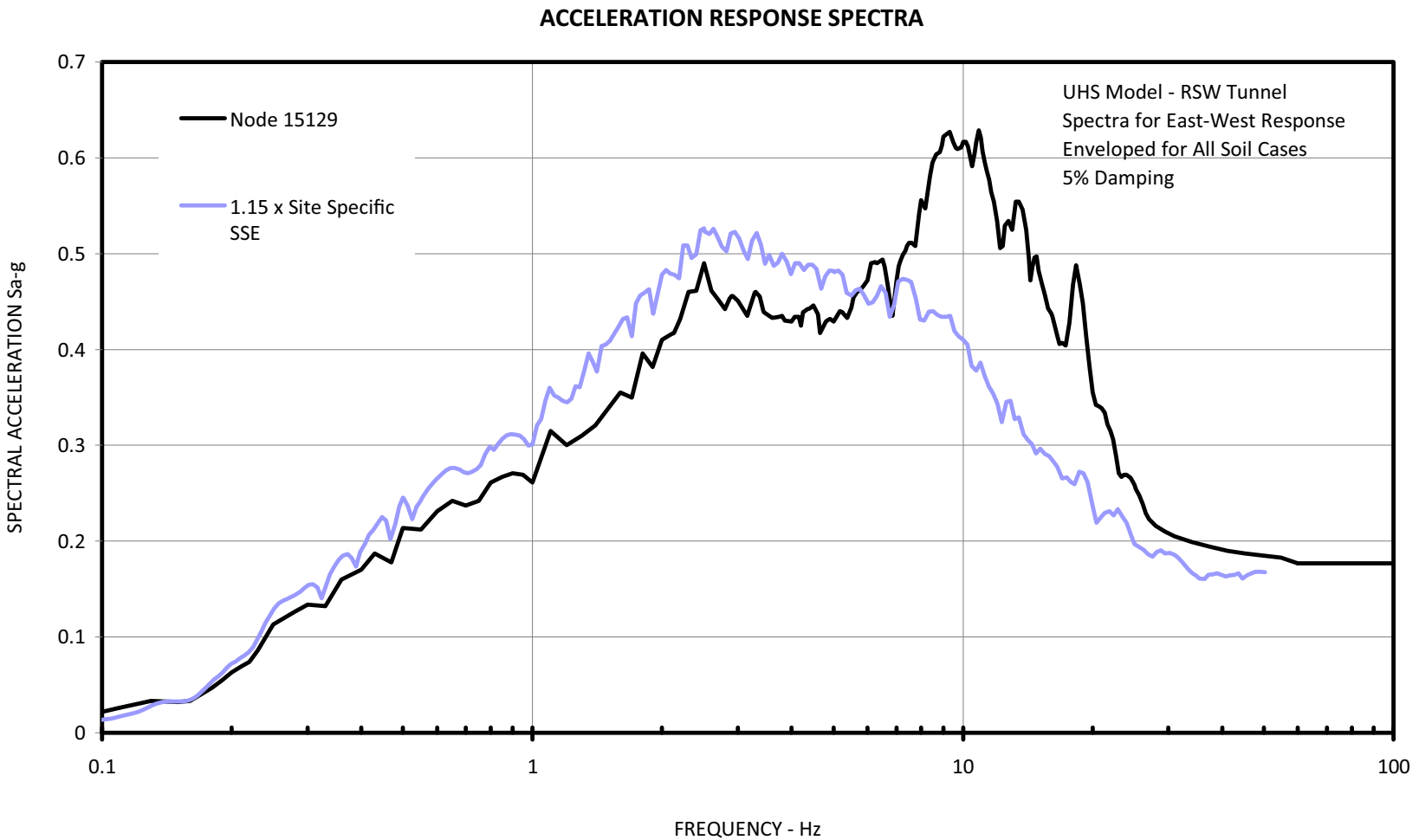
Figure 3H.6-209 SSI Model of RSW Piping Tunnel



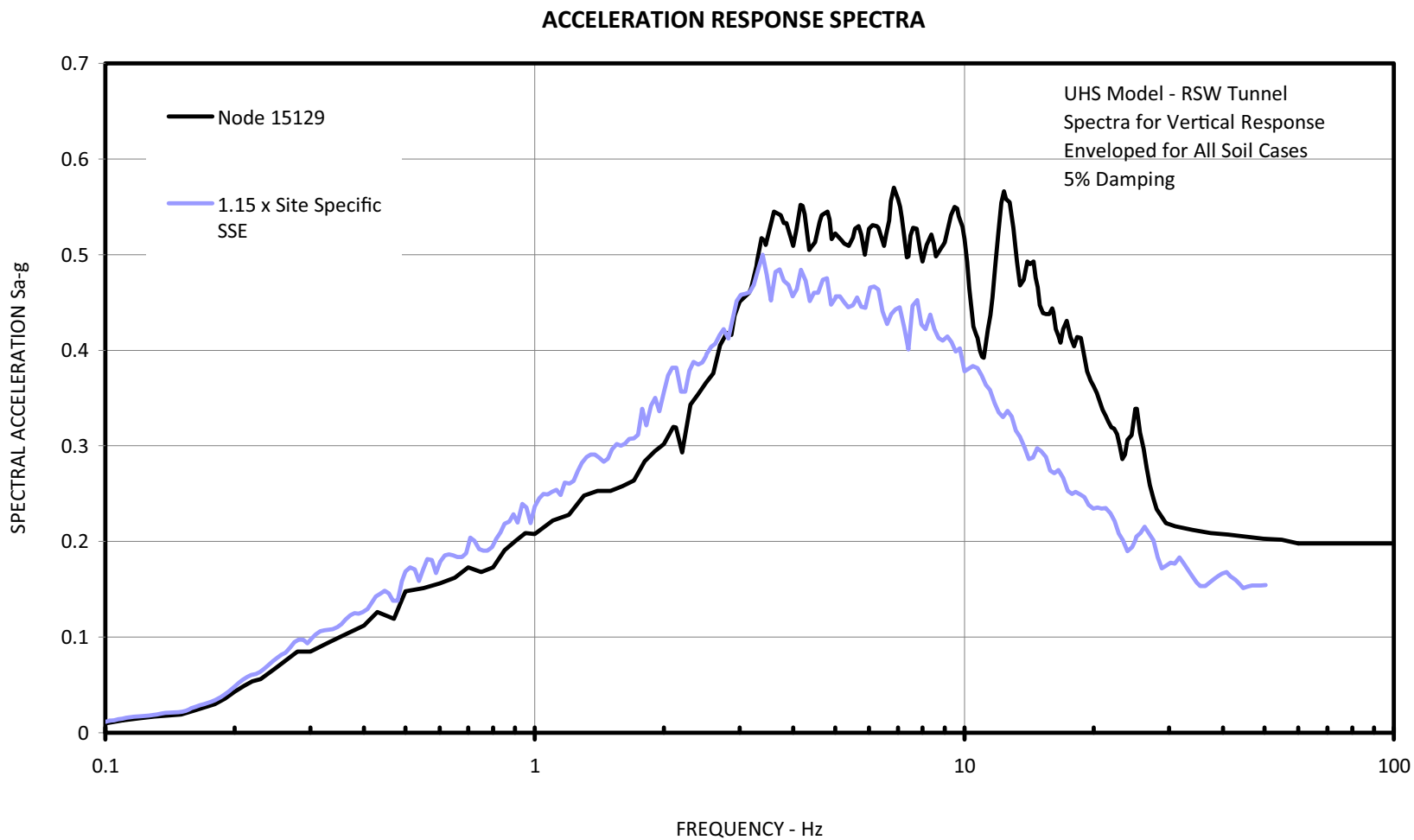
**Figure 3H.6-209a Amplified E-W Site-Specific Response Spectra for  
Reactor Service Water (RSW) Piping Tunnel  
(Based on SSI Analysis of Reactor Building)**



**Figure 3H.6-209b Amplified Vertical Site-Specific Response Spectra for  
Reactor Service Water (RSW) Piping Tunnel  
(Based on SSI Analysis of Reactor Building)**



**Figure 3H.6-209c Amplified E-W Site-Specific Response Spectra for  
Reactor Service Water (RSW) Piping Tunnel  
(Based on SSI Analysis of UHS/RSW Pump House)**



**Figure 3H.6-209d Amplified E-W Site-Specific Response Spectra for  
Reactor Service Water (RSW) Piping Tunnel  
(Based on SSI Analysis of UHS/RSW Pump House)**

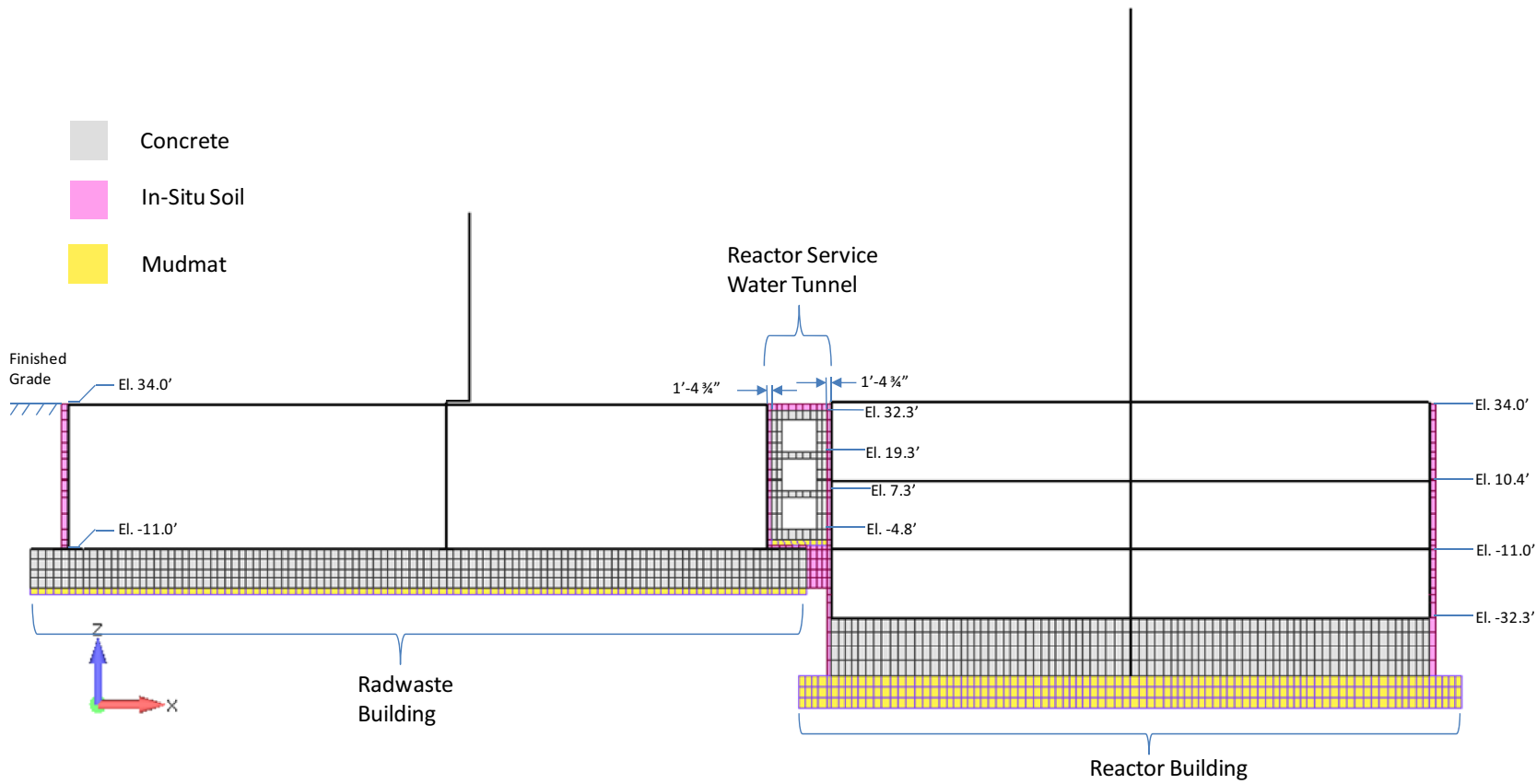


Figure 3H.6-210 SSSI 2D Model of RB + RSW Piping Tunnel + RWB

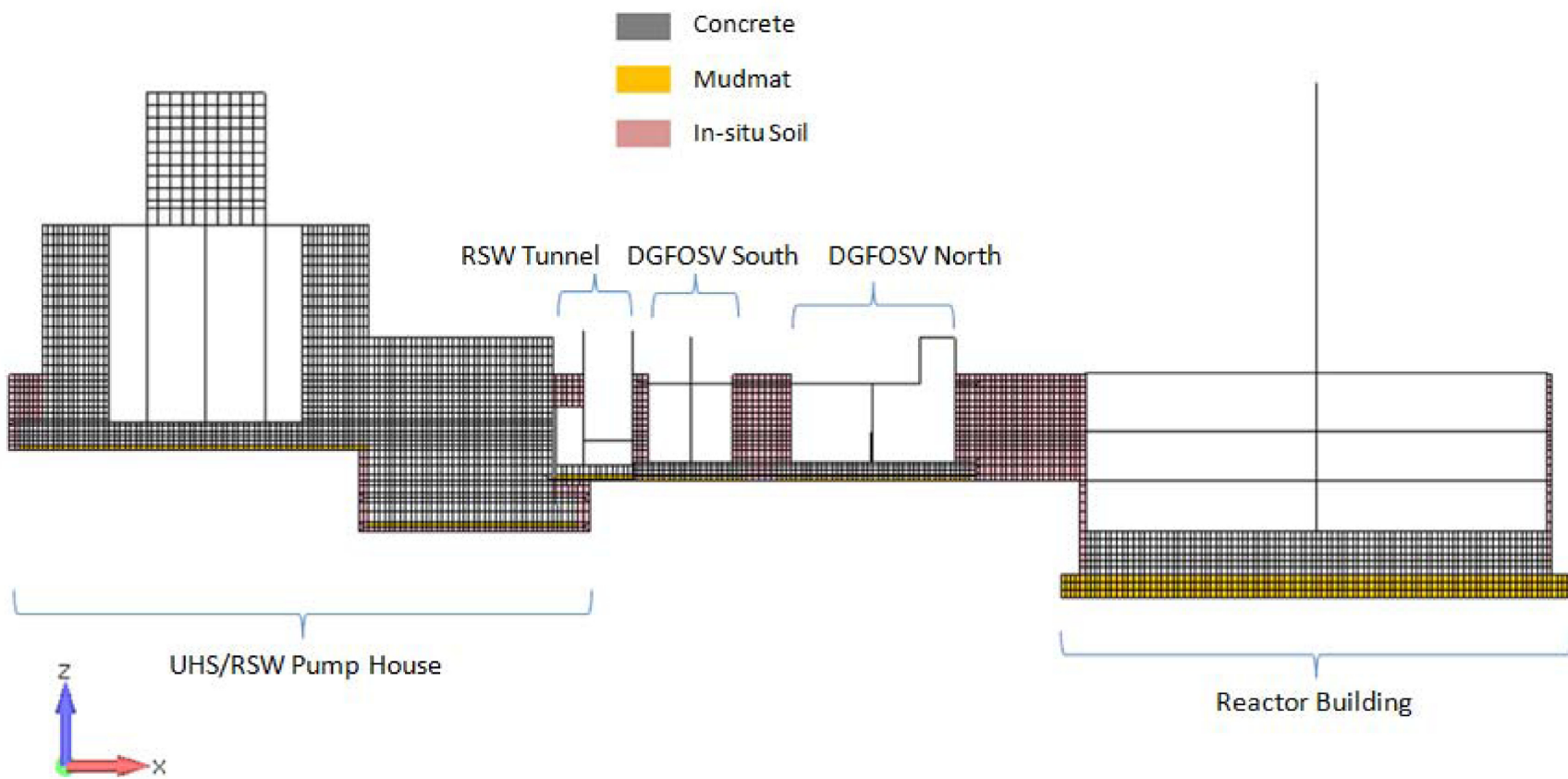
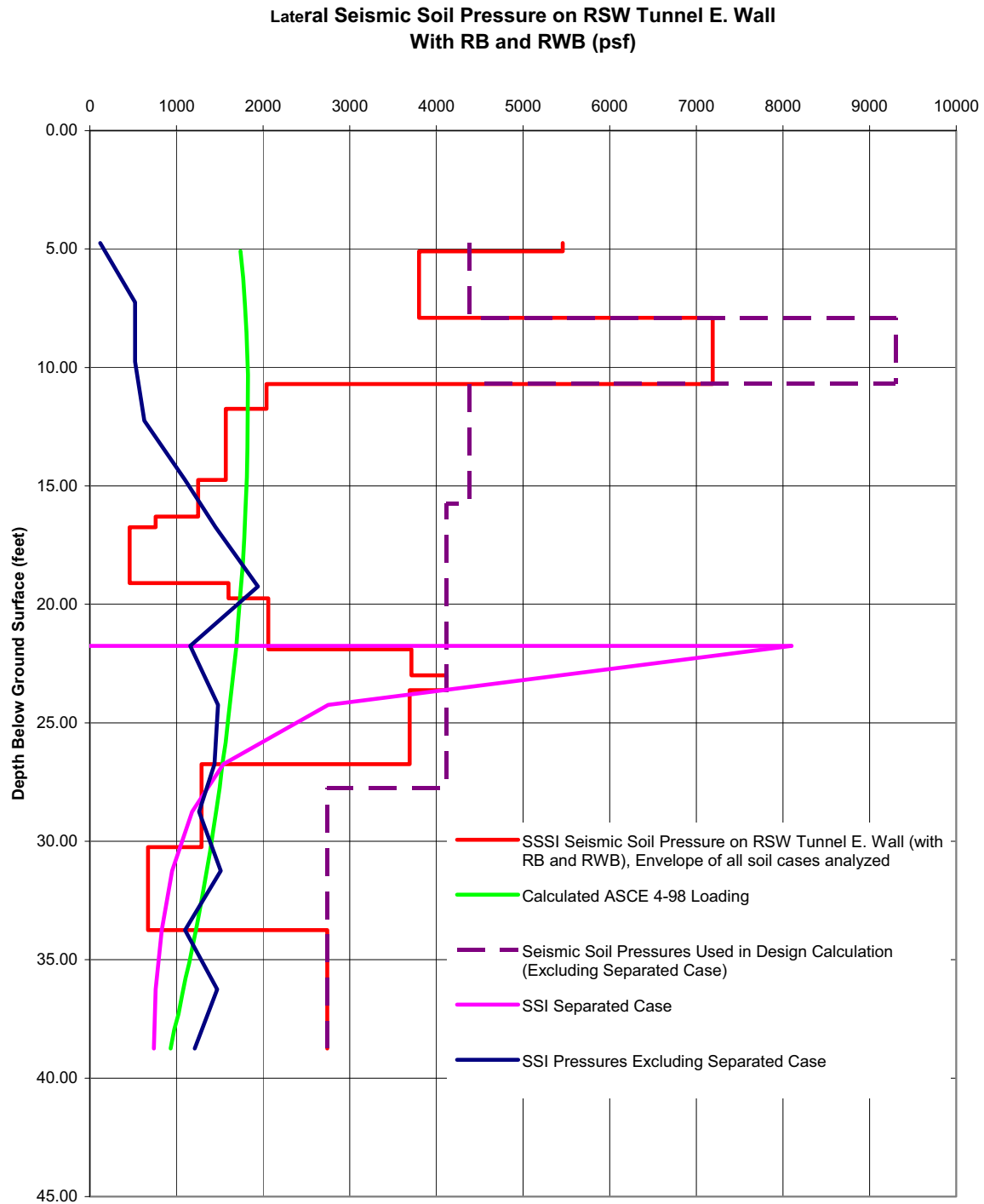
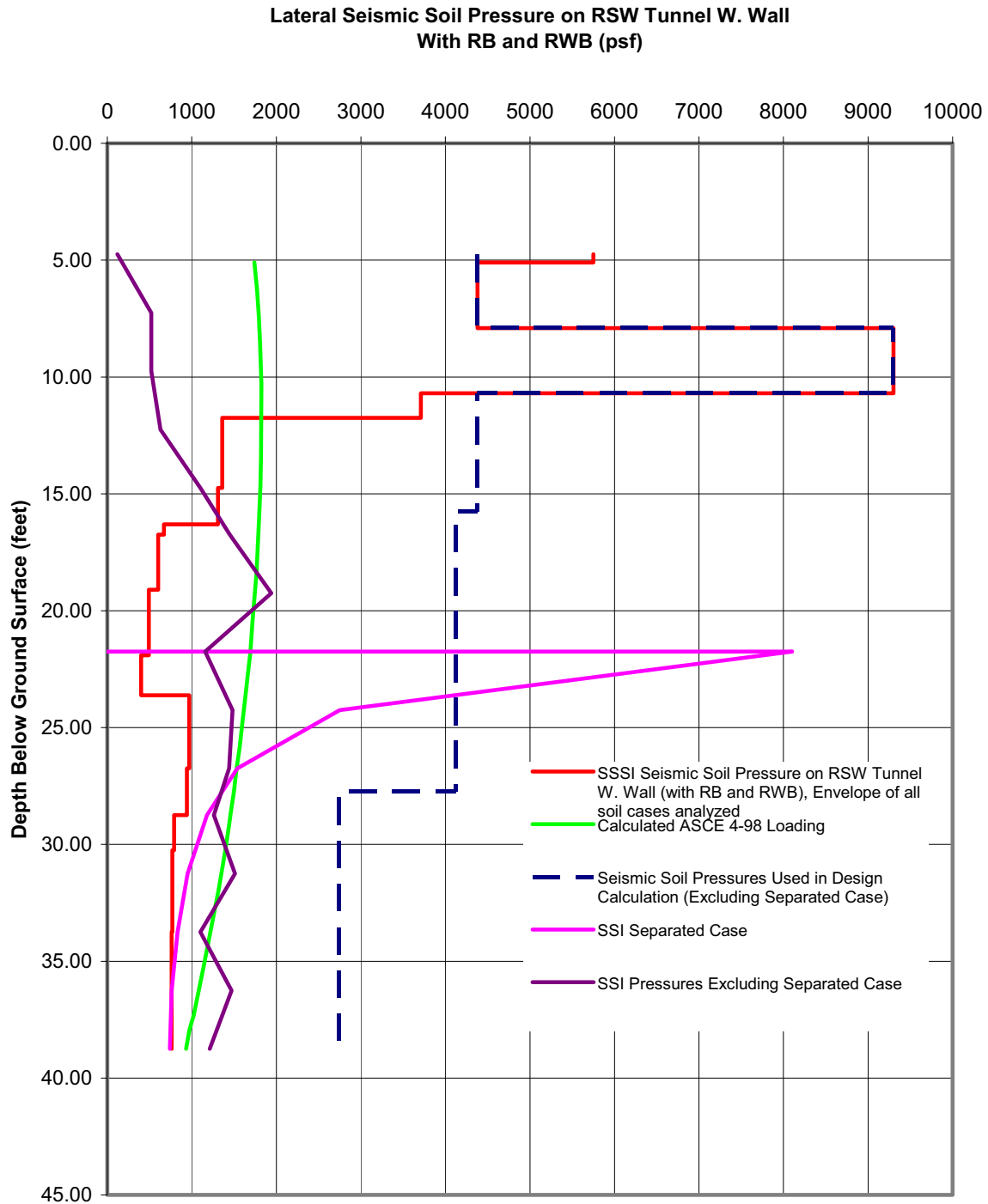


Figure 3H.6-211 2D Model of UHS/RSW Pump House, RSW Piping Tunnel, DGFOVs and RB

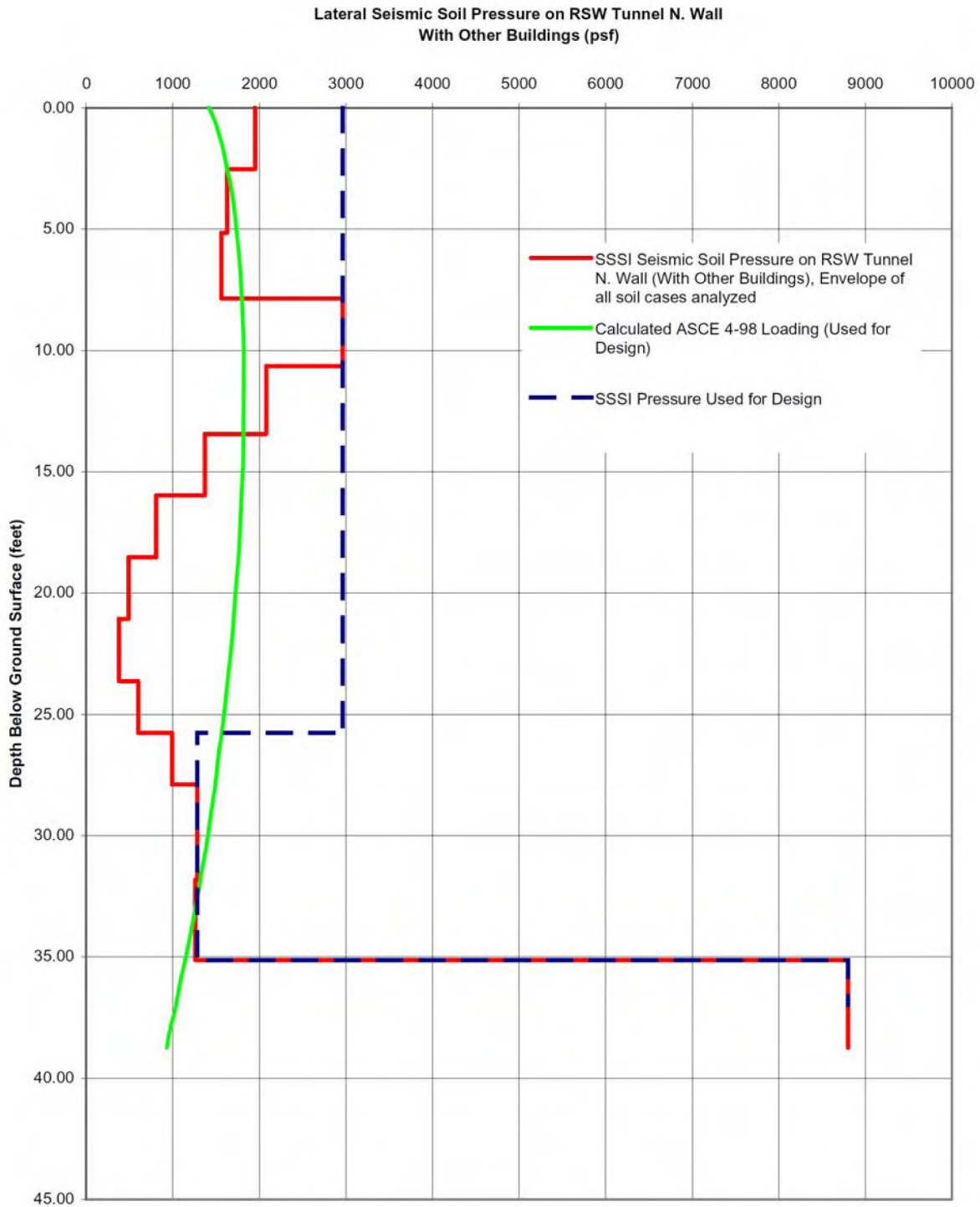




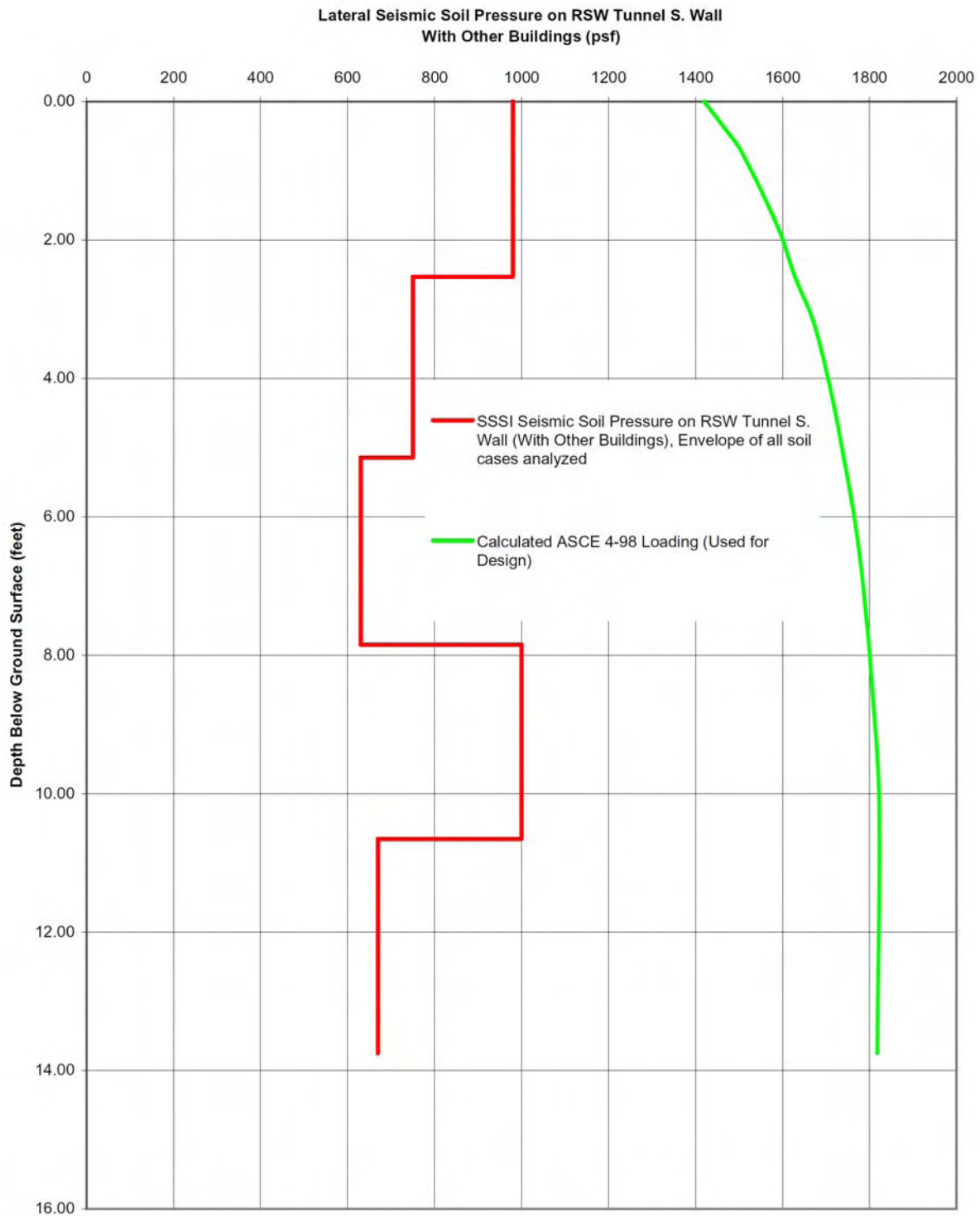
**Figure 3H.6-212 Lateral Seismic Soil Pressures (psf) on RSW Piping  
Tunnel East Wall (Main Cross Section of RSW Piping Tunnel)**



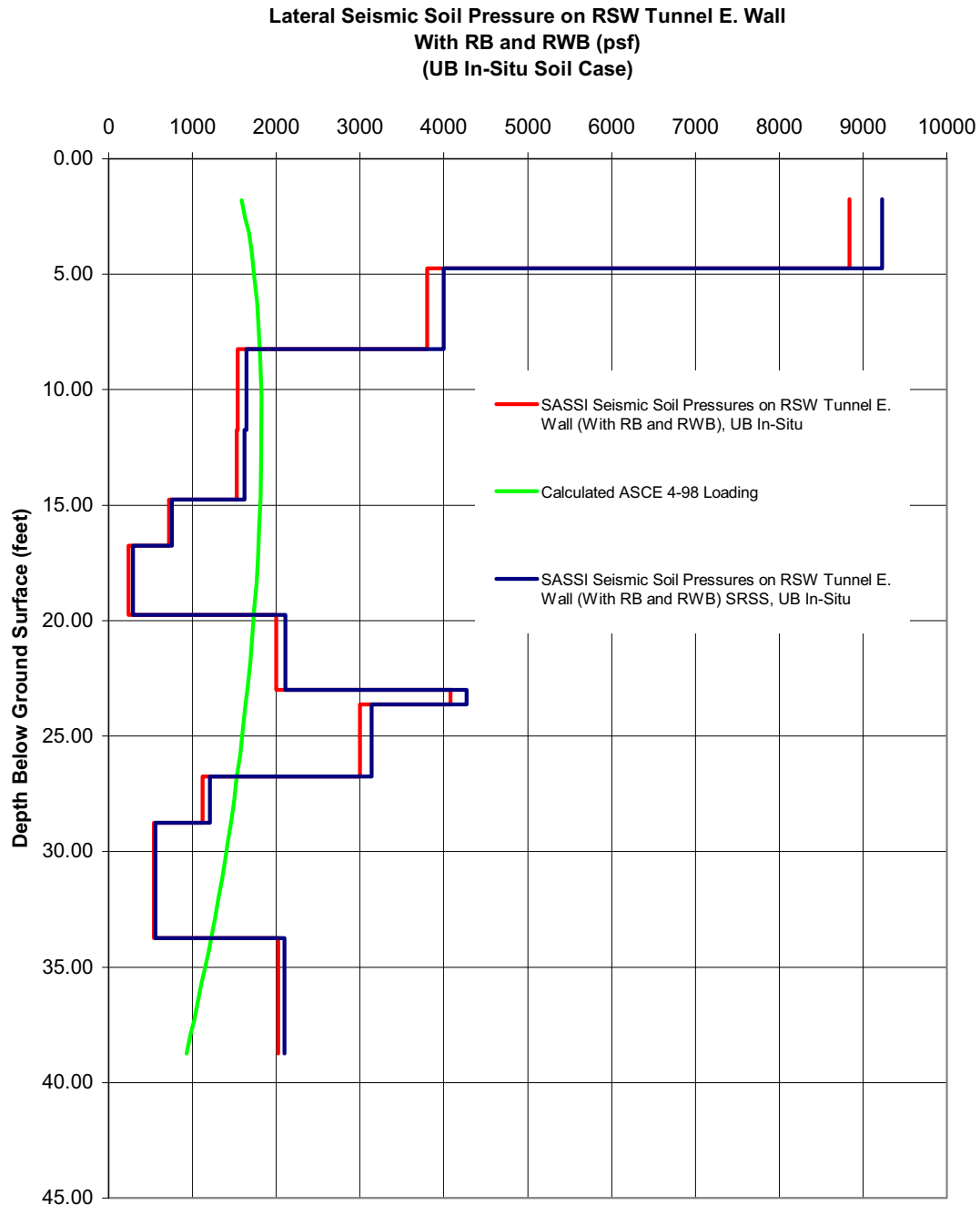
**Figure 3H.6-213 Lateral Seismic Soil Pressures (psf) on RSW Piping Tunnel West Wall (Main Cross Section of RSW Piping Tunnel)**



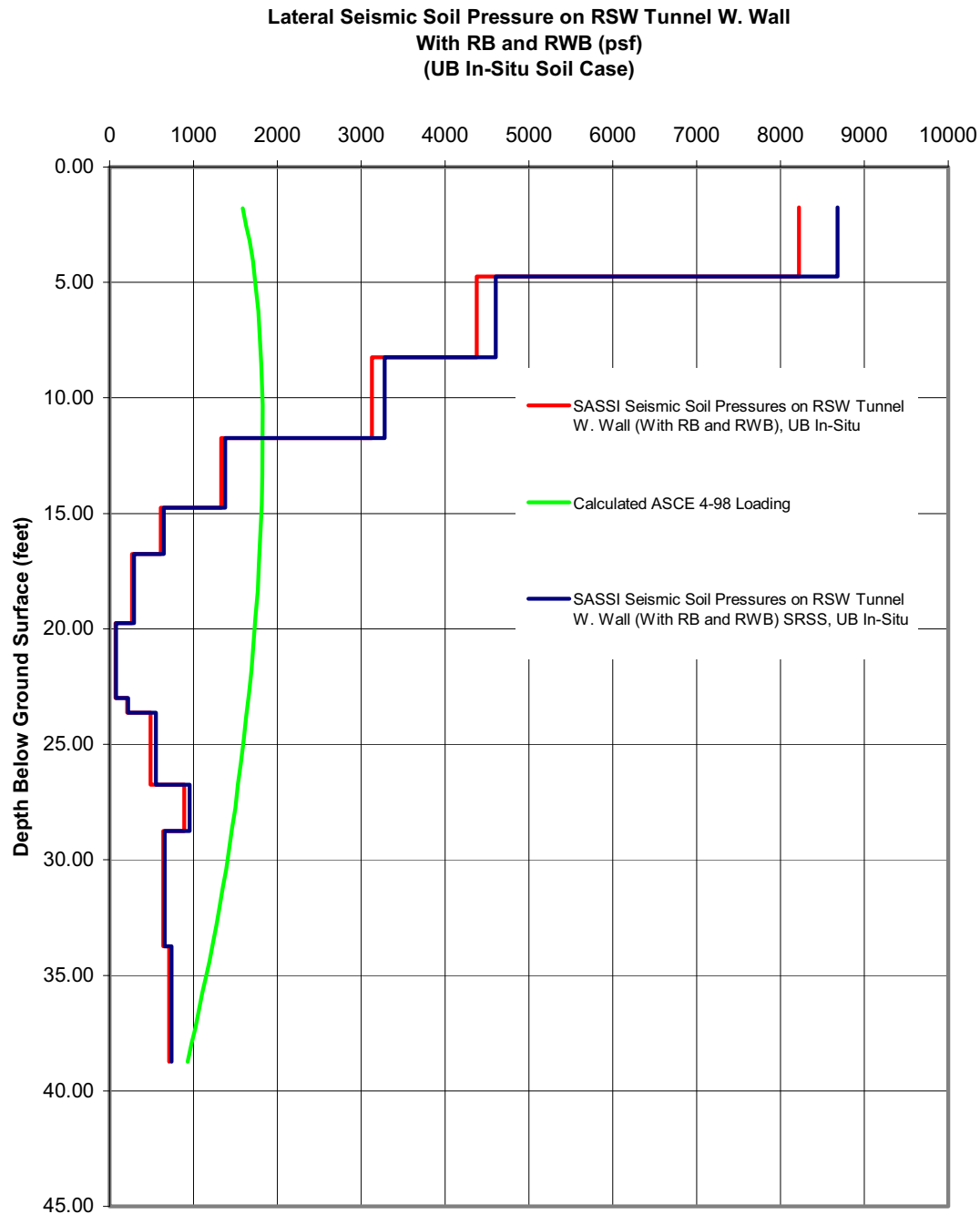
**Figure 3H.6-214 Lateral Seismic Soil Pressures (psf) on RSW Piping Tunnel North Wall (RSW Piping Tunnel near UHS/RSW Pump House)**



**Figure 3H.6-215 Lateral Seismic Soil Pressures (psf) on RSW Piping Tunnel  
South Wall (RSW Piping Tunnel near UHS/RSW Pump House)**



**Figure 3H.6-216 Lateral Seismic Soil Pressures (psf) on RSW Piping Tunnel East Wall For UB In-Situ Soil Case (Main Cross Section of RSW Piping Tunnel, Including Effect of Vertical Excitation)**



**Figure 3H.6-217 Lateral Seismic Soil Pressures (psf) on RSW Piping Tunnel West Wall For UB In-Situ Soil Case (Main Cross Section of RSW Piping Tunnel, Including Effect of Vertical Excitation)**

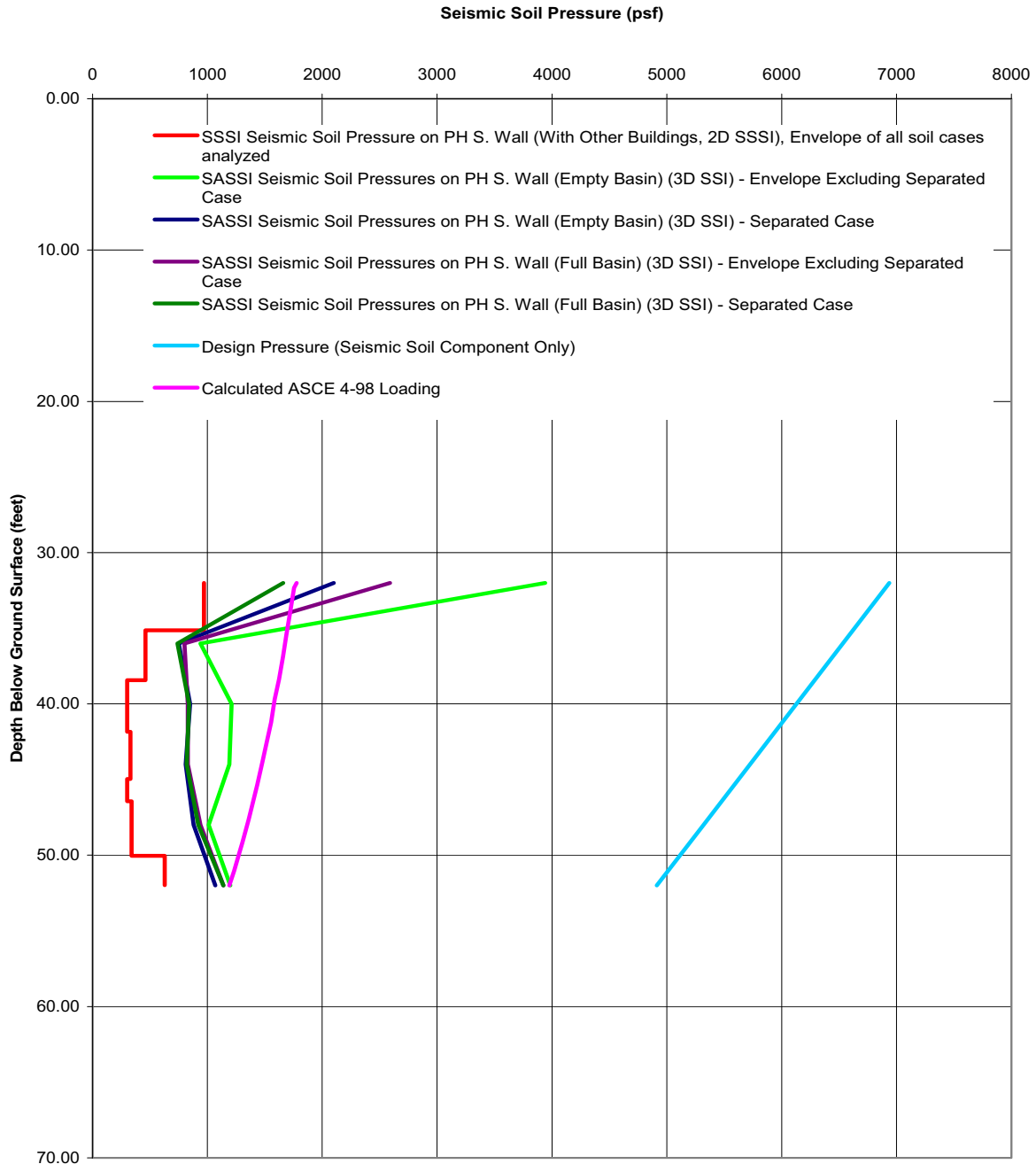
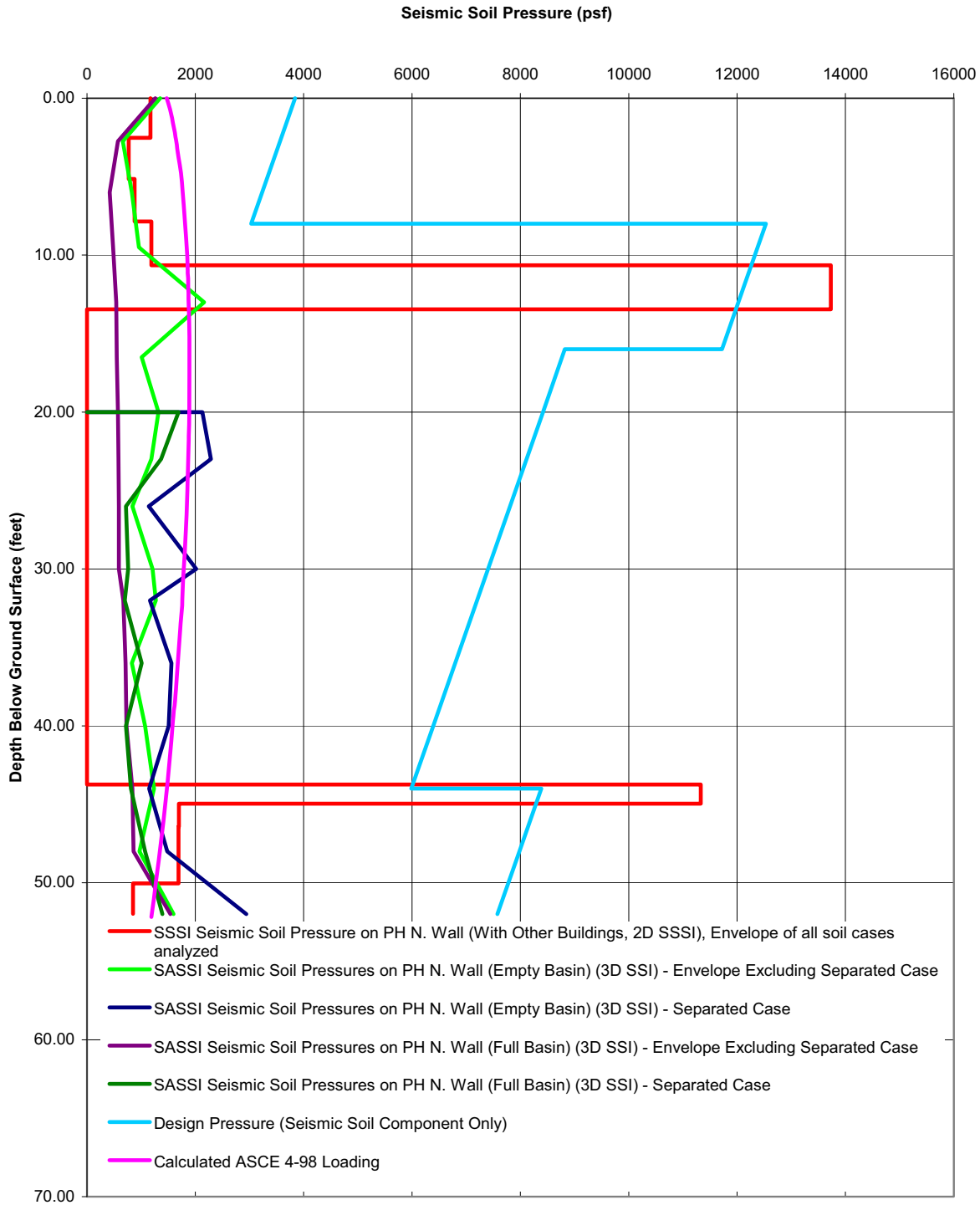
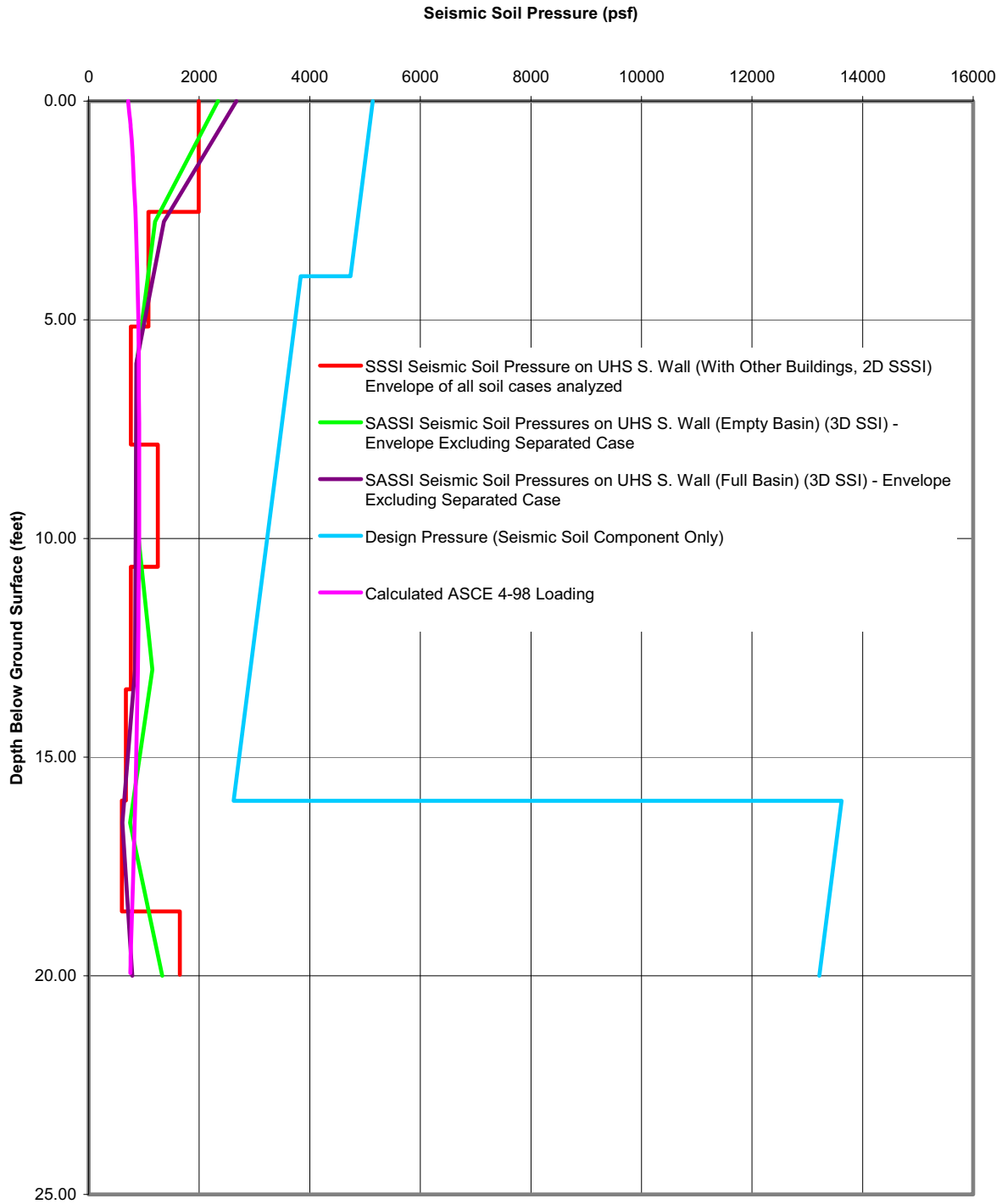


Figure 3H.6-218 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on RSW Pump House South Wall



**Figure 3H.6-219 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on RSW Pump House North Wall**





**Figure 3H.6-220 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on Ultimate Heat Sink Basin South Wall**

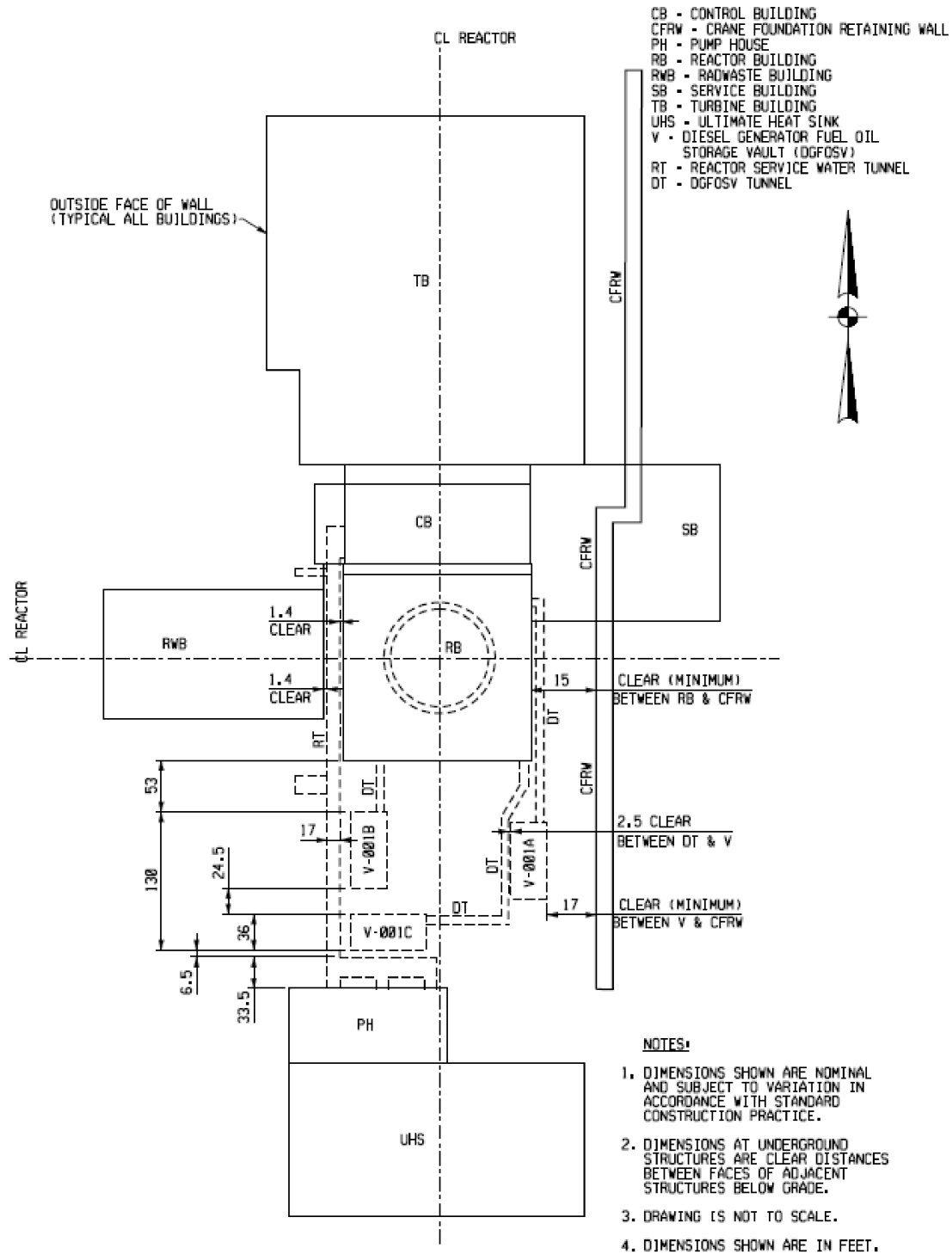


Figure 3H.6-221 Partial Site Plan

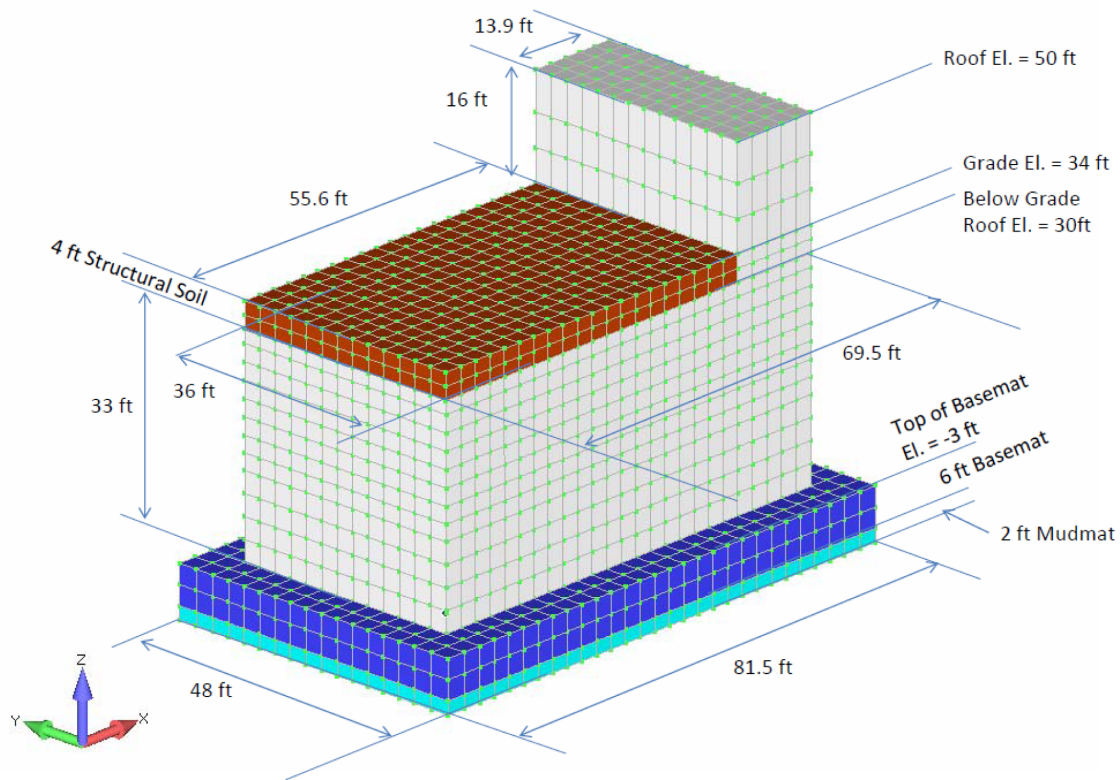
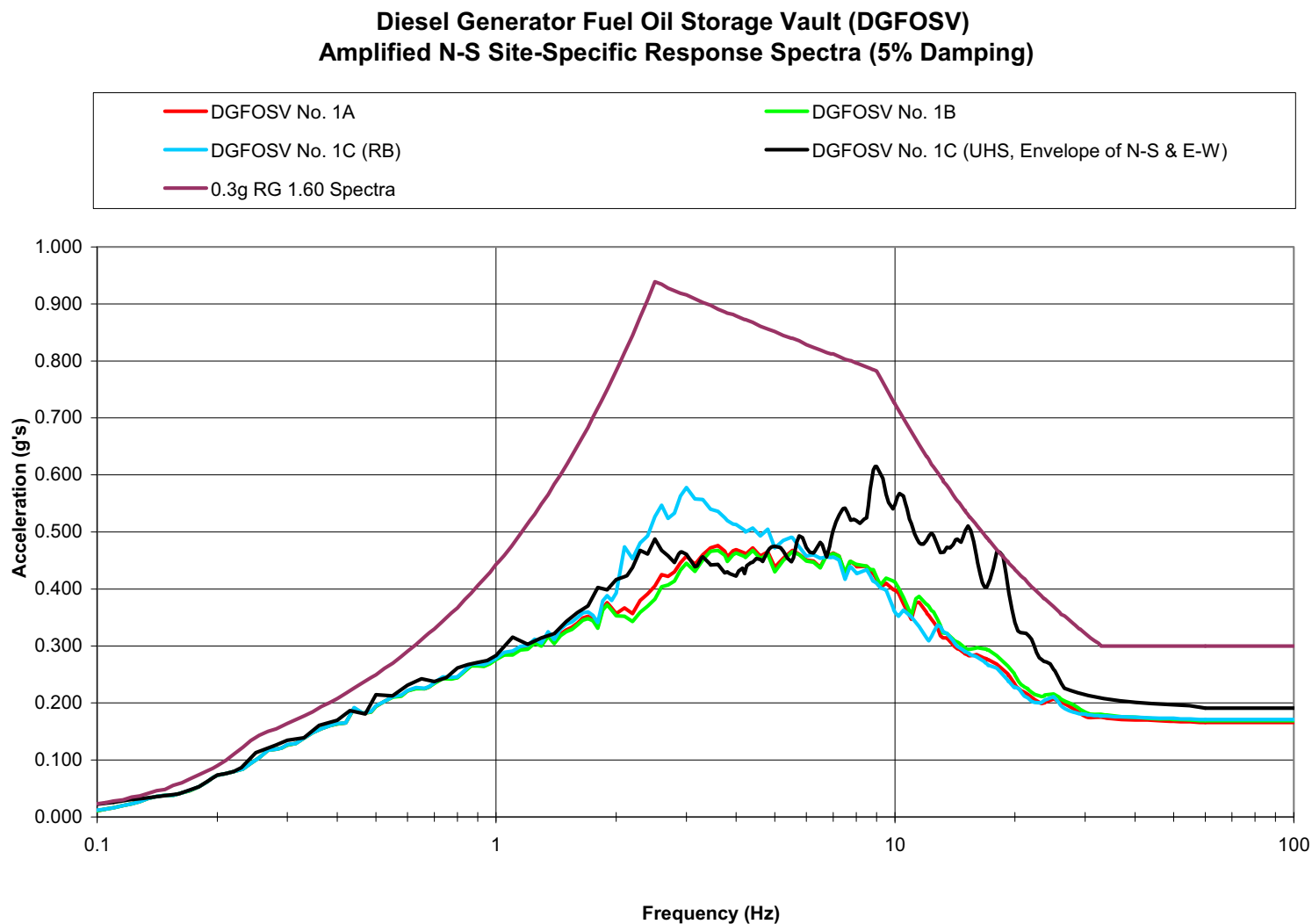
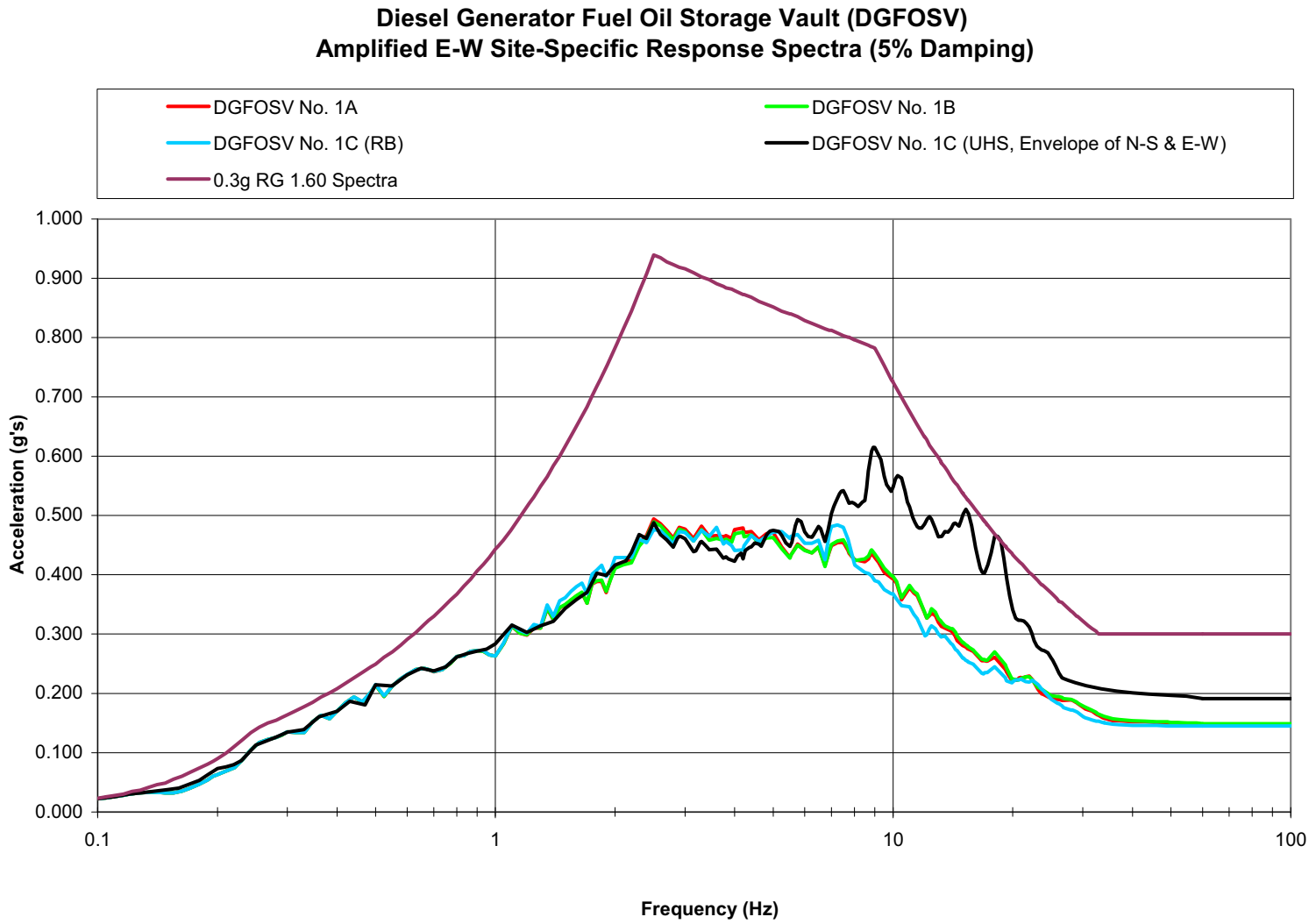


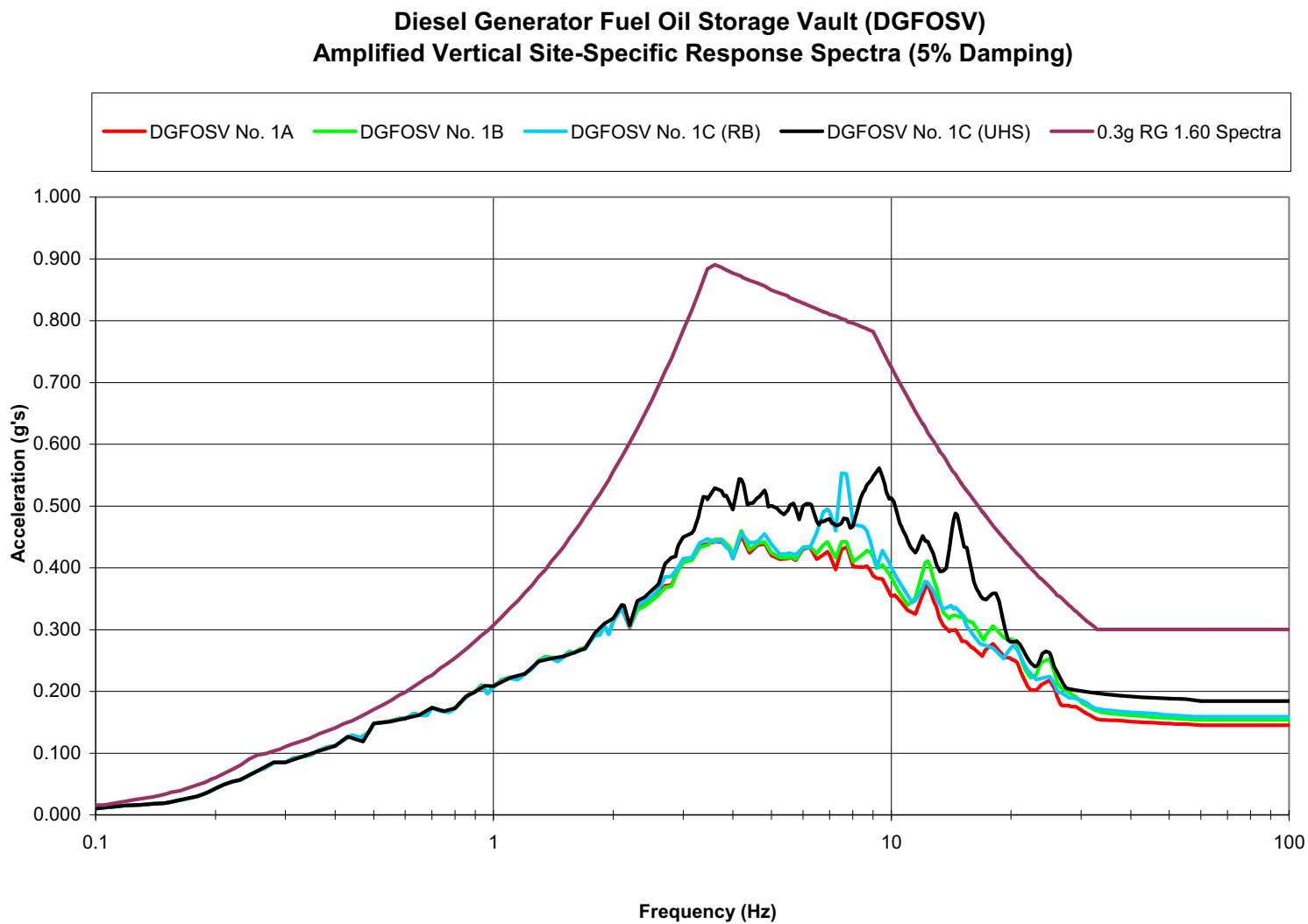
Figure 3H.6-222 3D Model of DGFOV for SSI Analysis



**Figure 3H.6-222a Amplified N-S Site-Specific Response Spectra**  
**Diesel Generator Fuel Oil Storage Vault (DGFOSV)**



**Figure 3H.6-222b Amplified E-W Site-Specific Response Spectra  
Diesel Generator Fuel Oil Storage Vault (DGFOSV)**



**Figure 3H.6-222c Amplified Vertical Site-Specific Response Spectra**  
**Diesel Generator Fuel Oil Storage Vault (DGFOSV)**

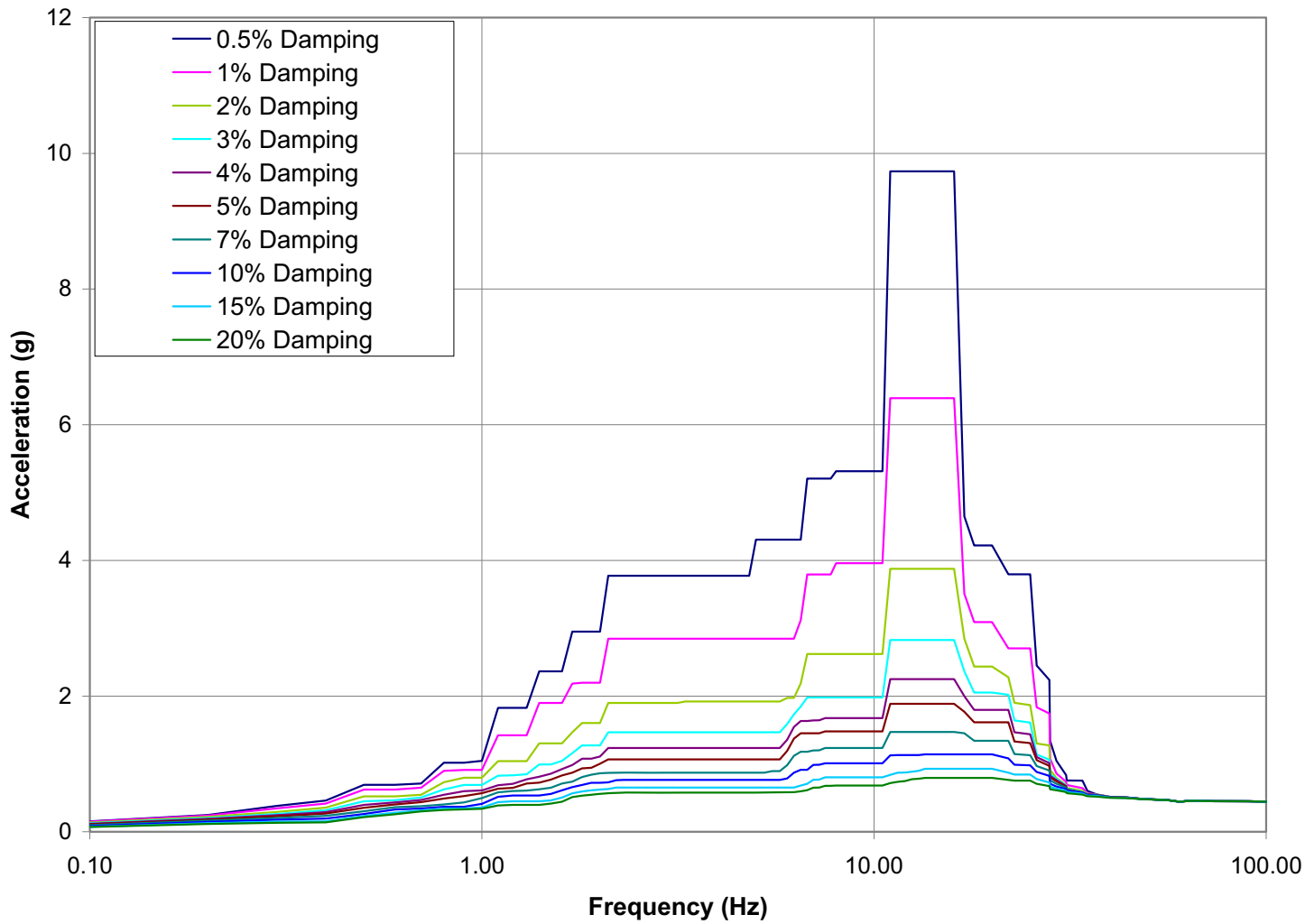


Figure 3H.6-223 Enveloped Broadened Horizontal Direction Response Spectra for DGFO SV

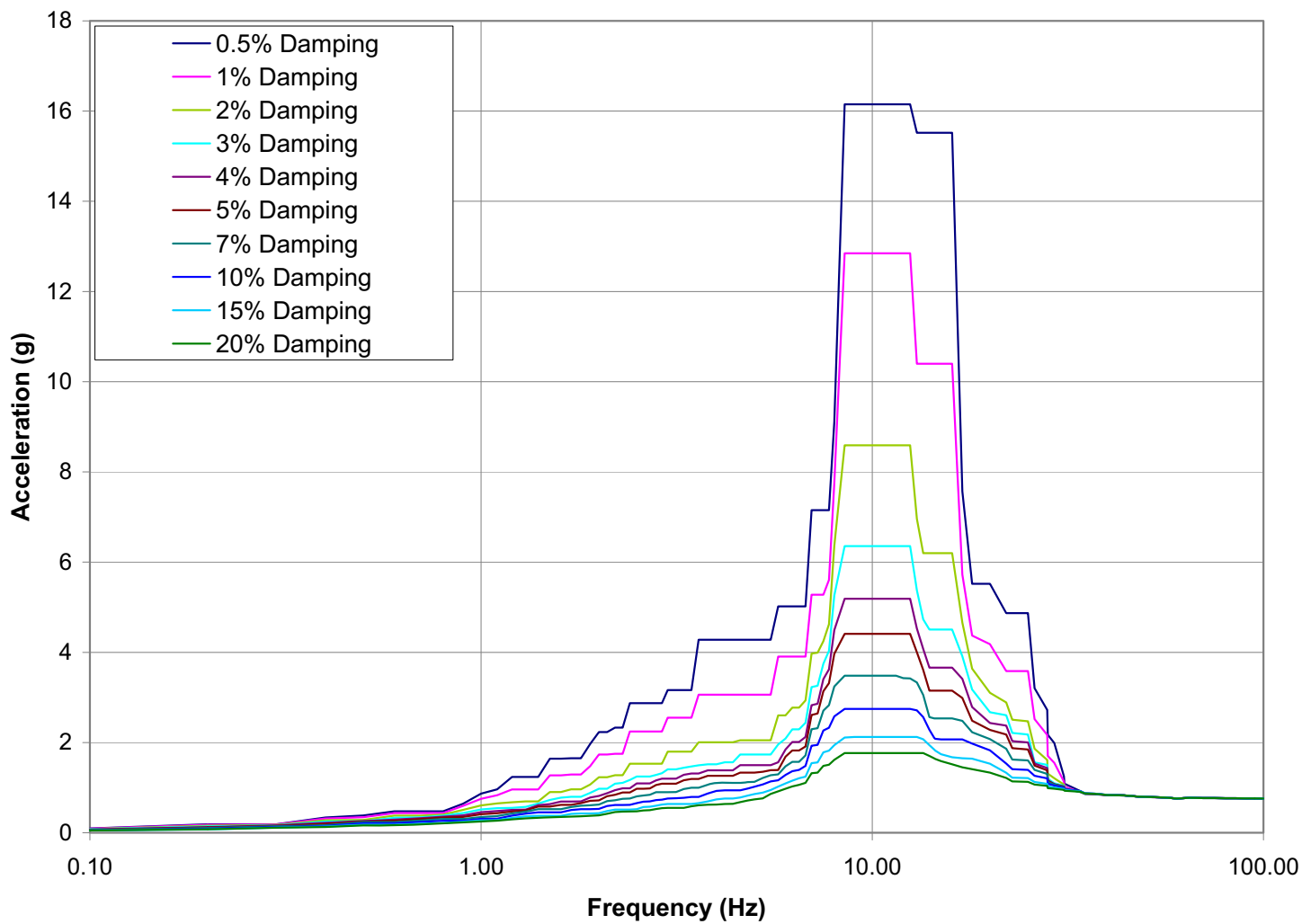


Figure 3H.6-224 Enveloped Broadened Vertical Direction Response Spectra for DGFOVS



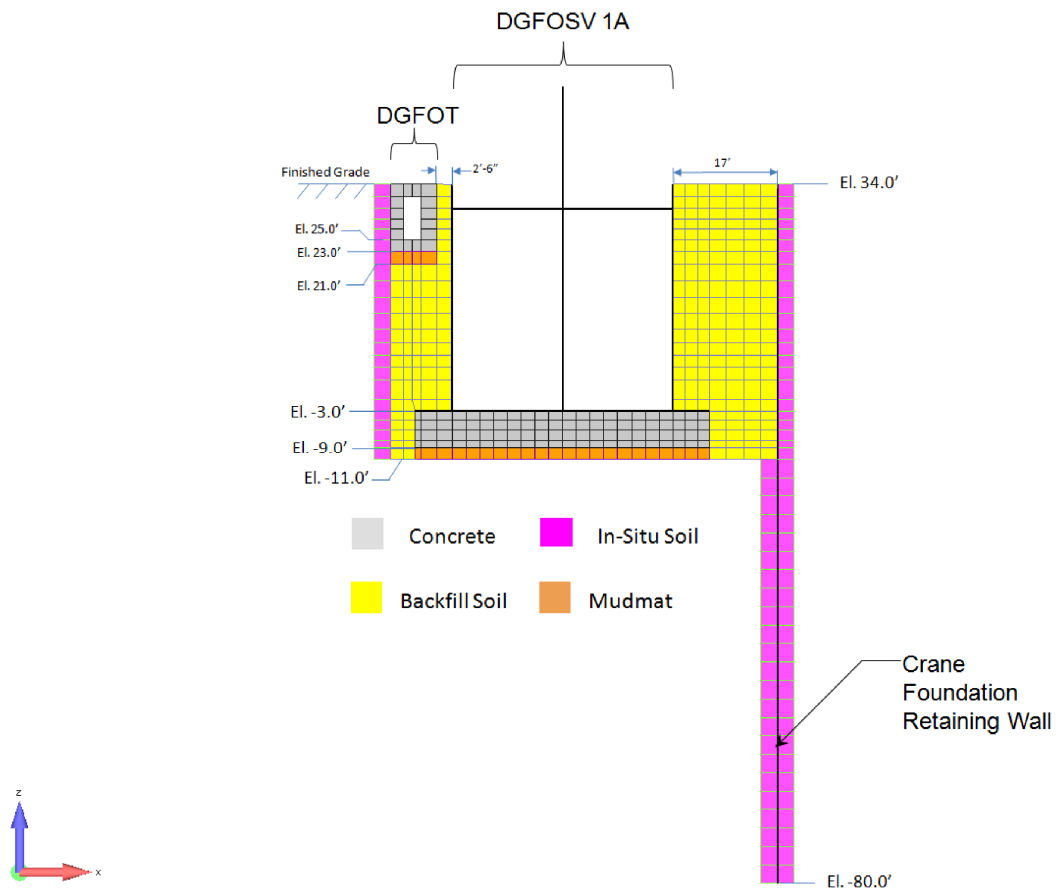
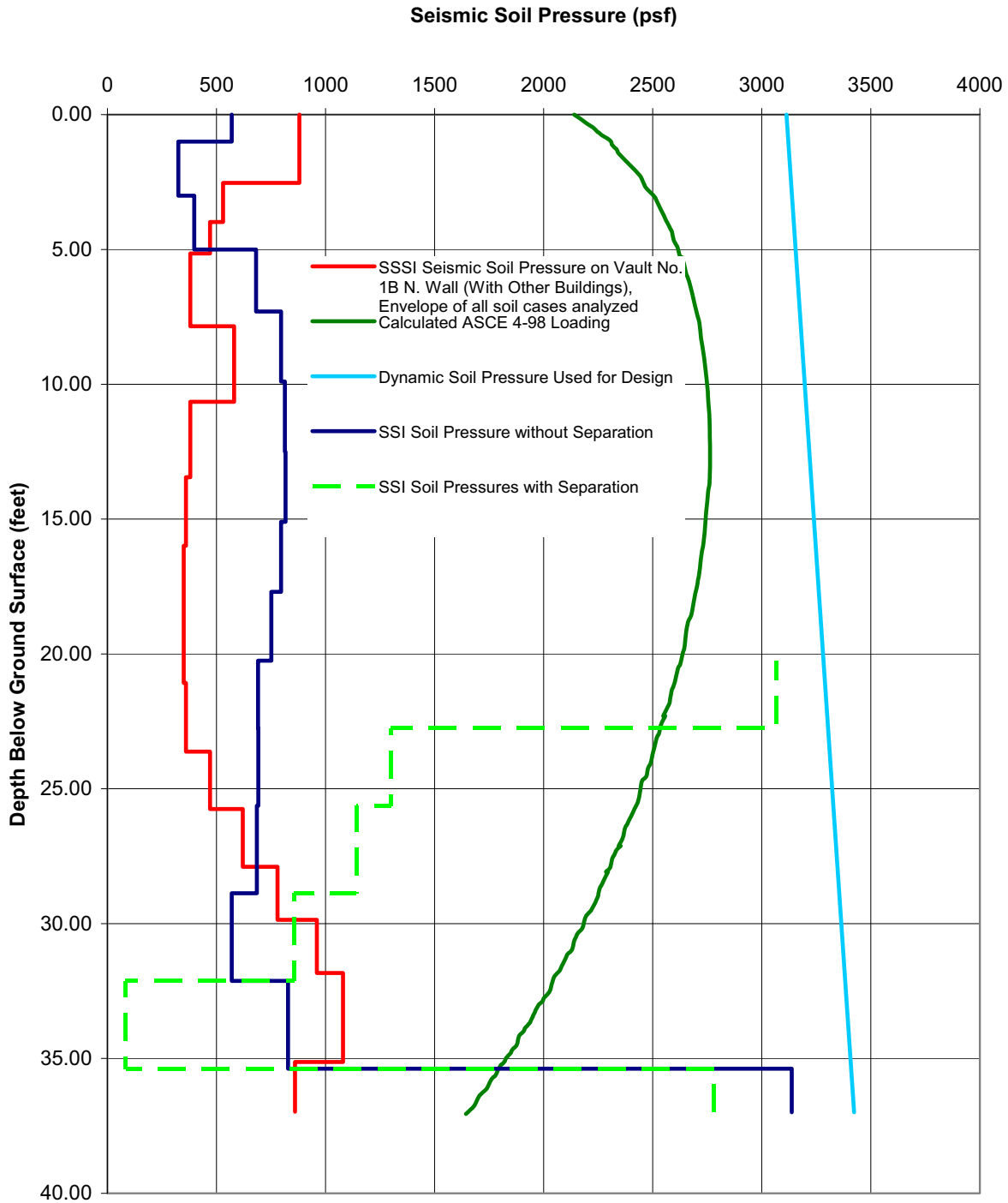
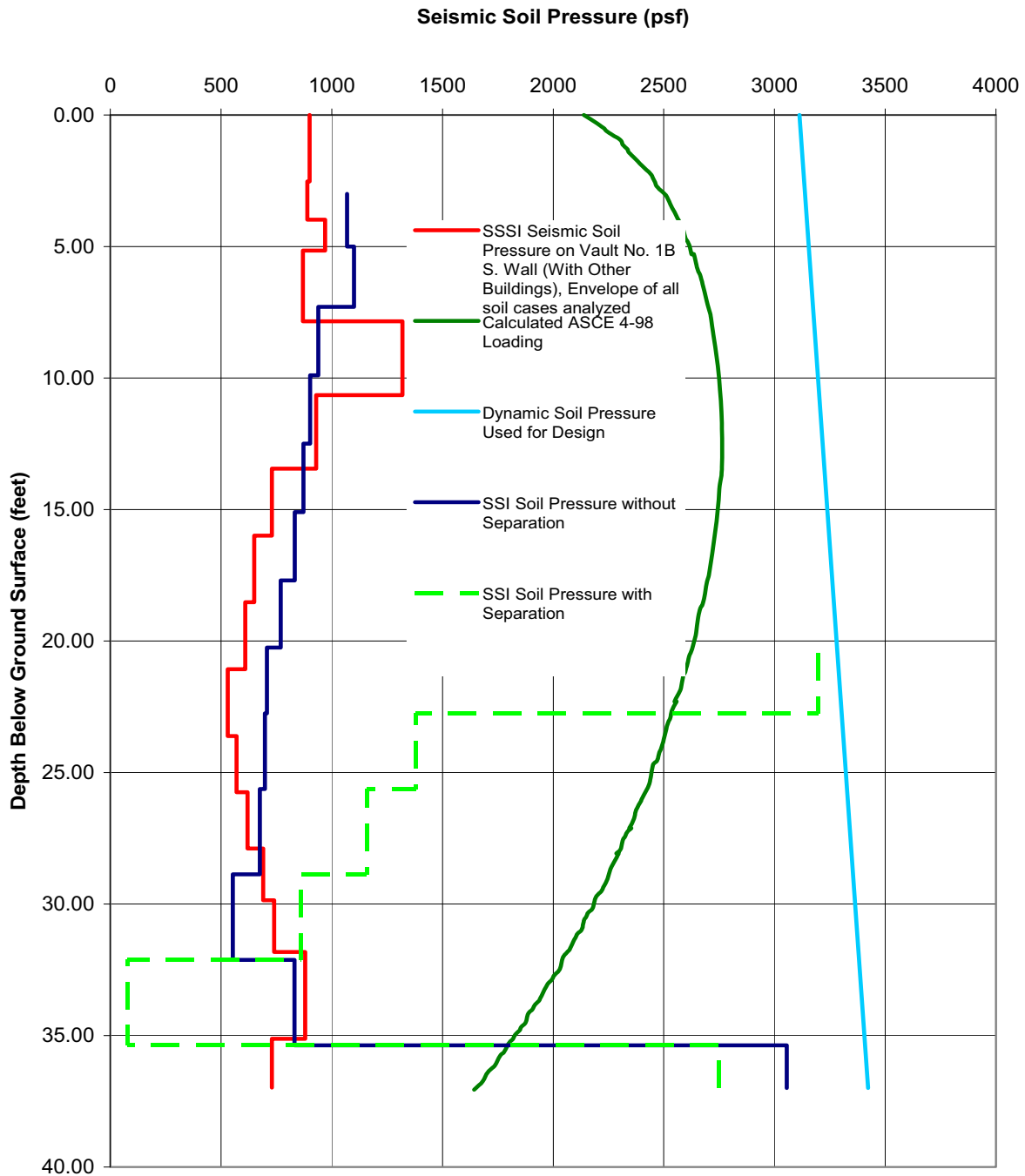


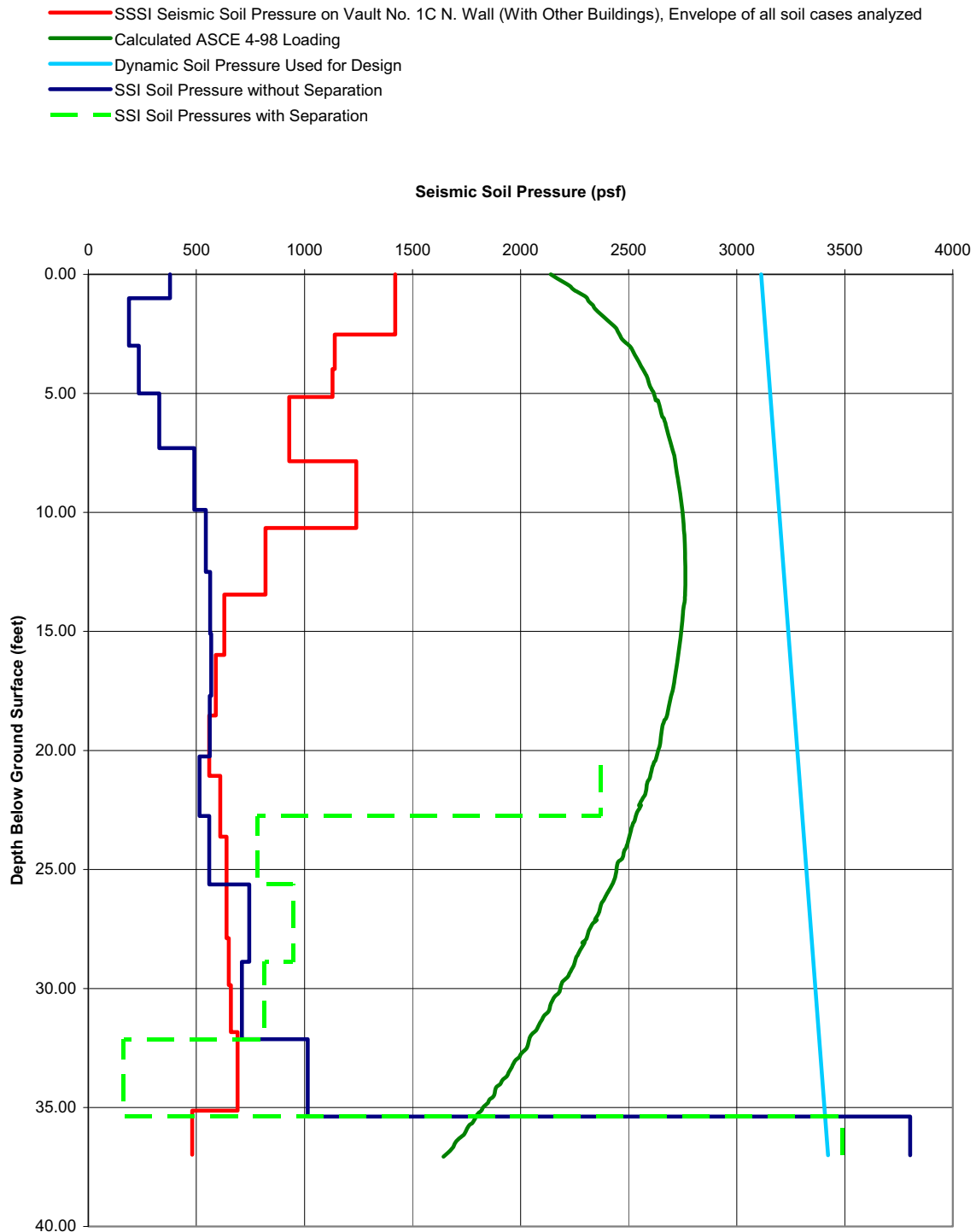
Figure 3H.6-225 2D SSSI Model of DGfOT, DGfOSV and Crane Foundation Retaining Wall



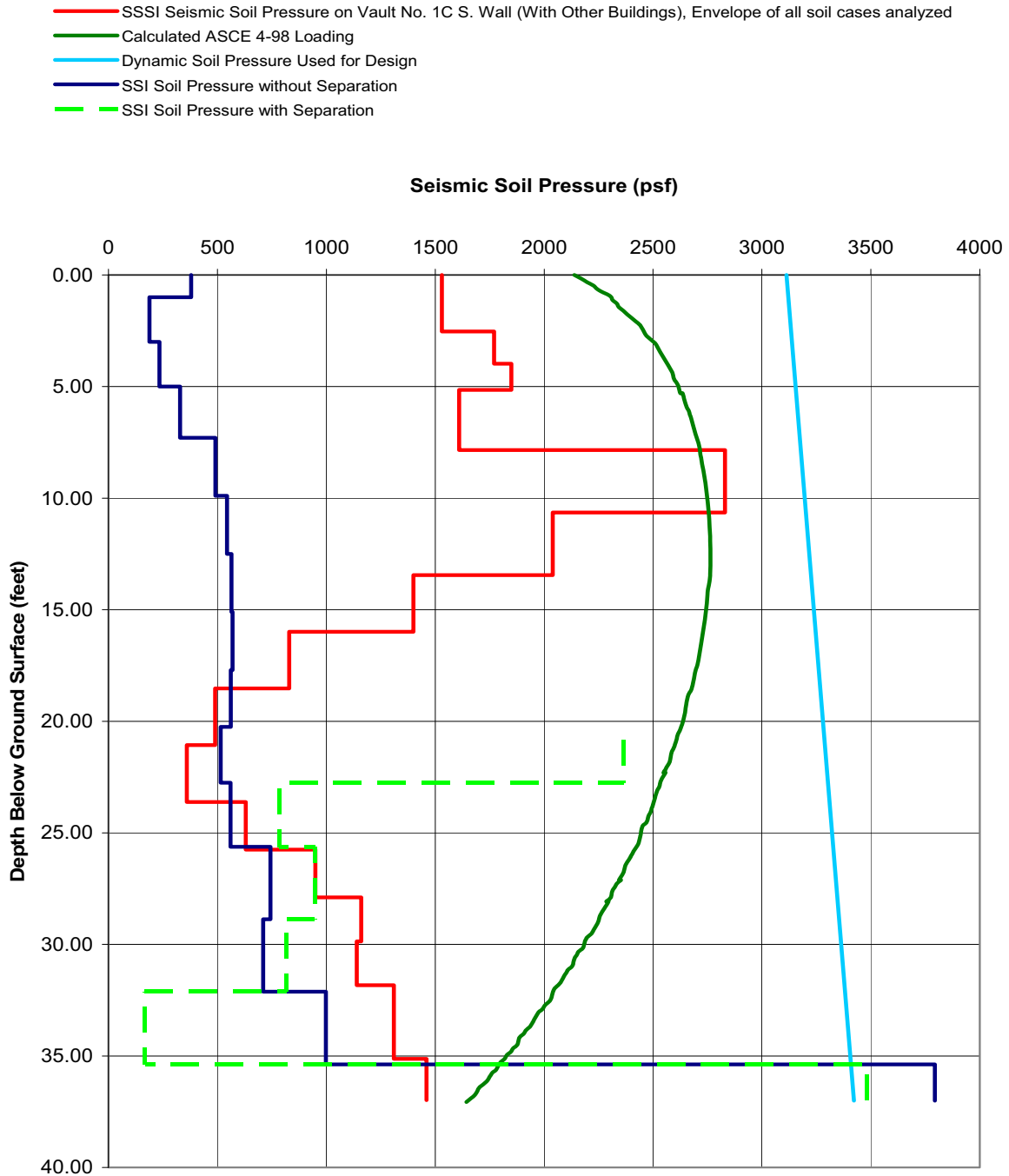
**Figure 3H.6-226 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on Diesel Generator Fuel Oil Storage Vault No. 1B North Wall**



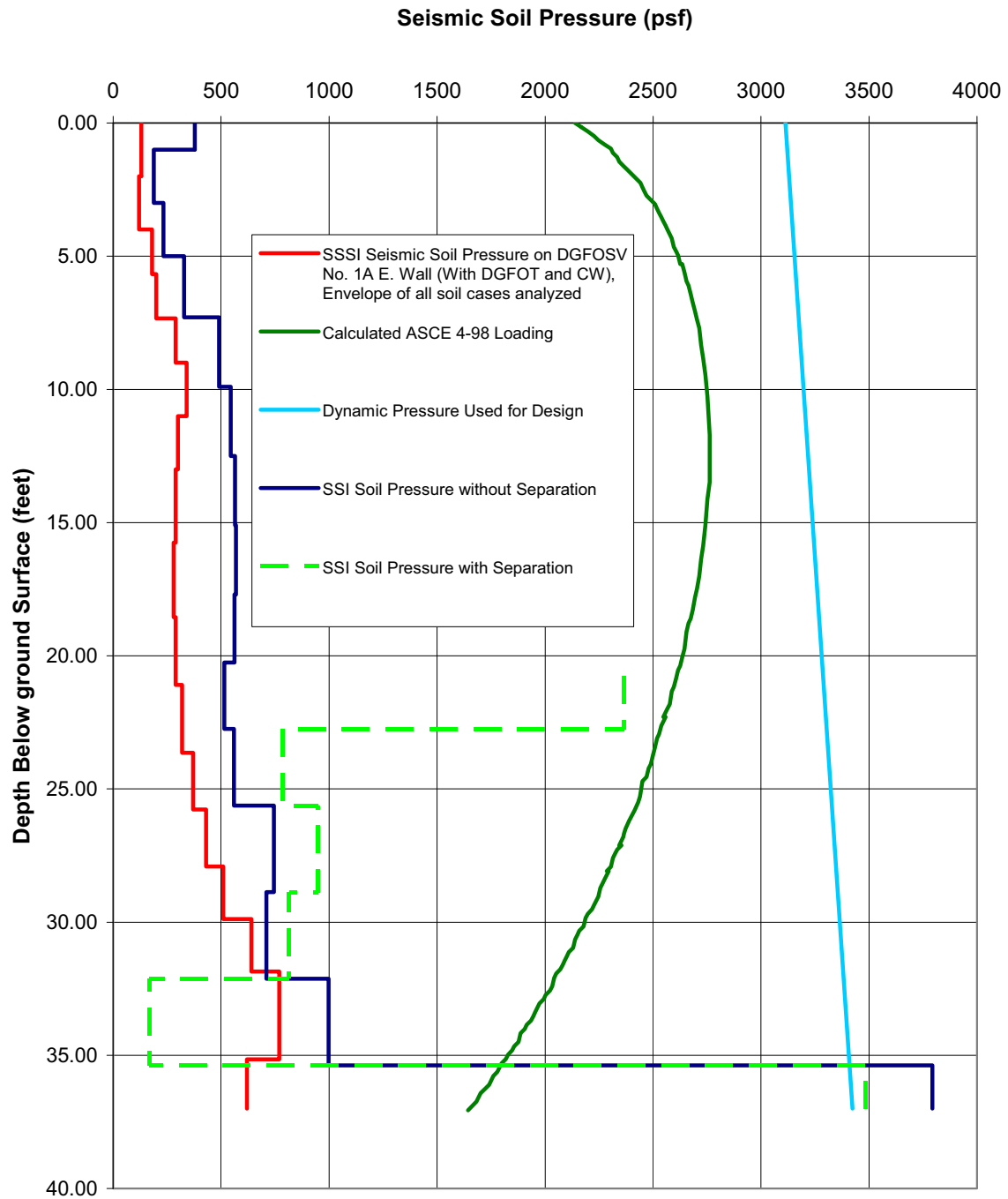
**Figure 3H.6-227 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on Diesel Generator Fuel Oil Storage Vault No. 1B South Wall**



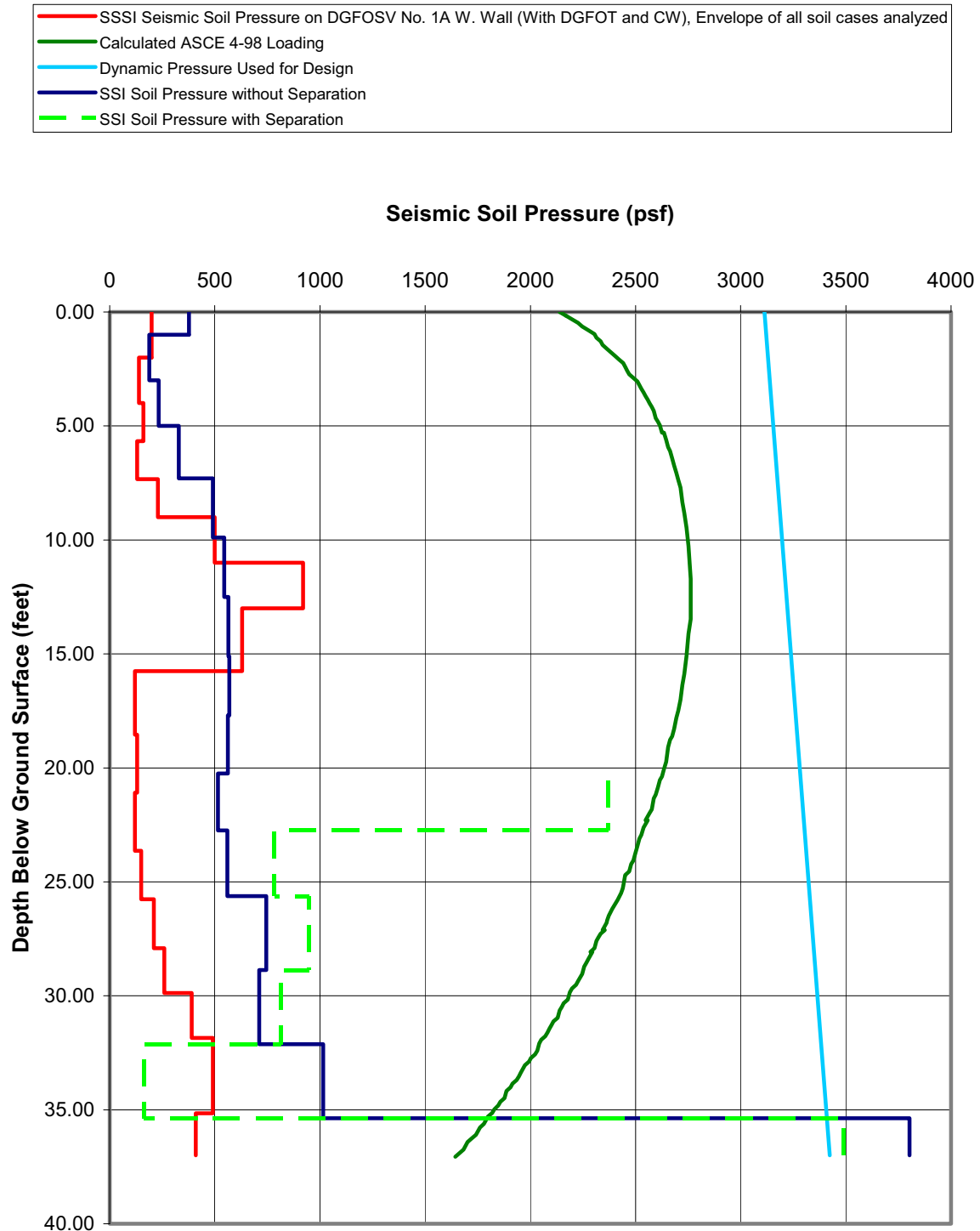
**Figure 3H.6-228 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on Diesel Generator Fuel Oil Storage Vault No. 1C North Wall**



**Figure 3H.6-229 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on Diesel Generator Fuel Oil Storage Vault No. 1C South Wall**



**Figure 3H.6-230 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on Diesel Generator Fuel Oil Storage Vault No. 1A East Wall**



**Figure 3H.6-231 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures on Diesel Generator Fuel Oil Storage Vault No. 1A West Wall**

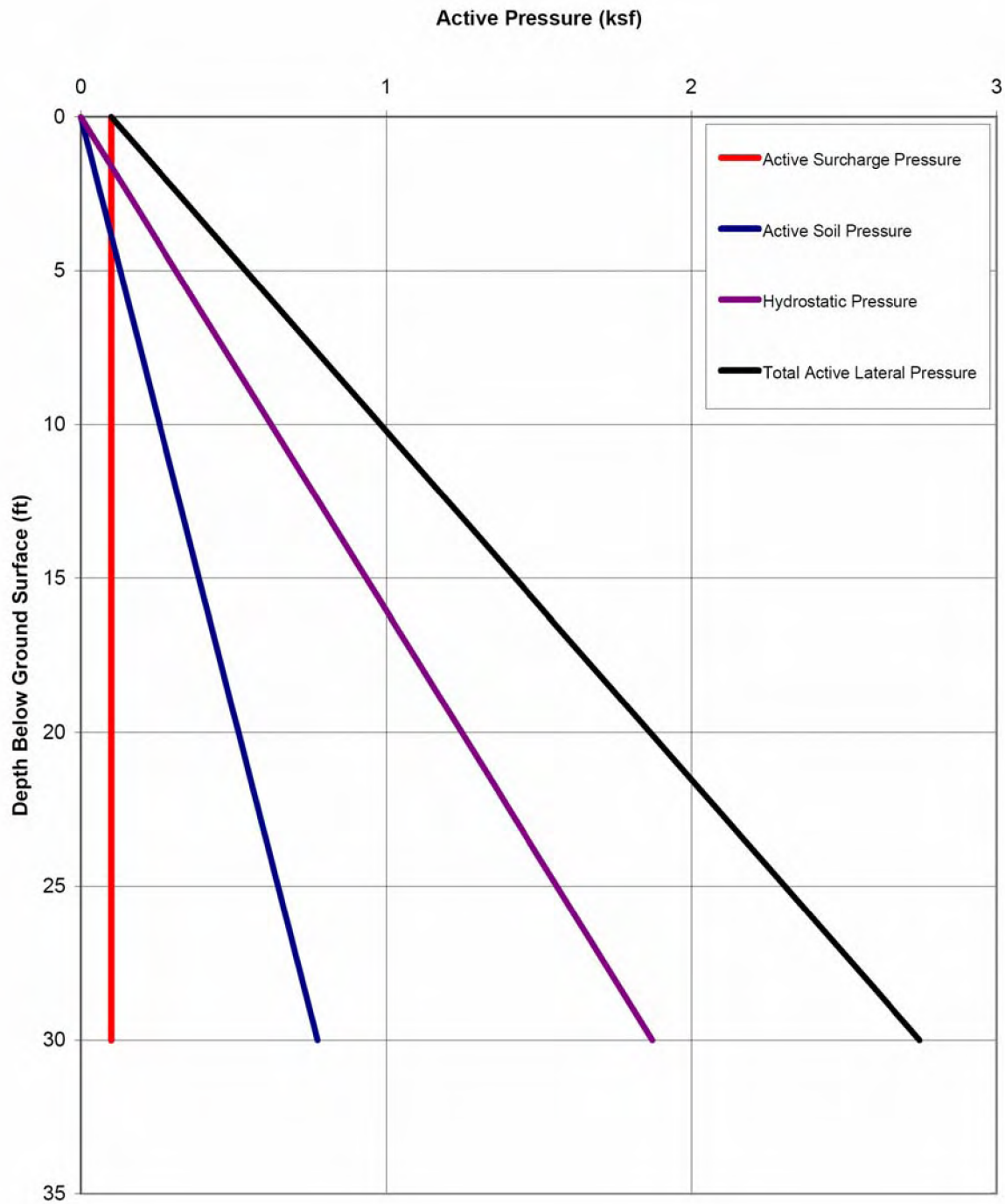


Figure 3H.6-232 Active Lateral Earth Pressure on the UHS Basin Walls



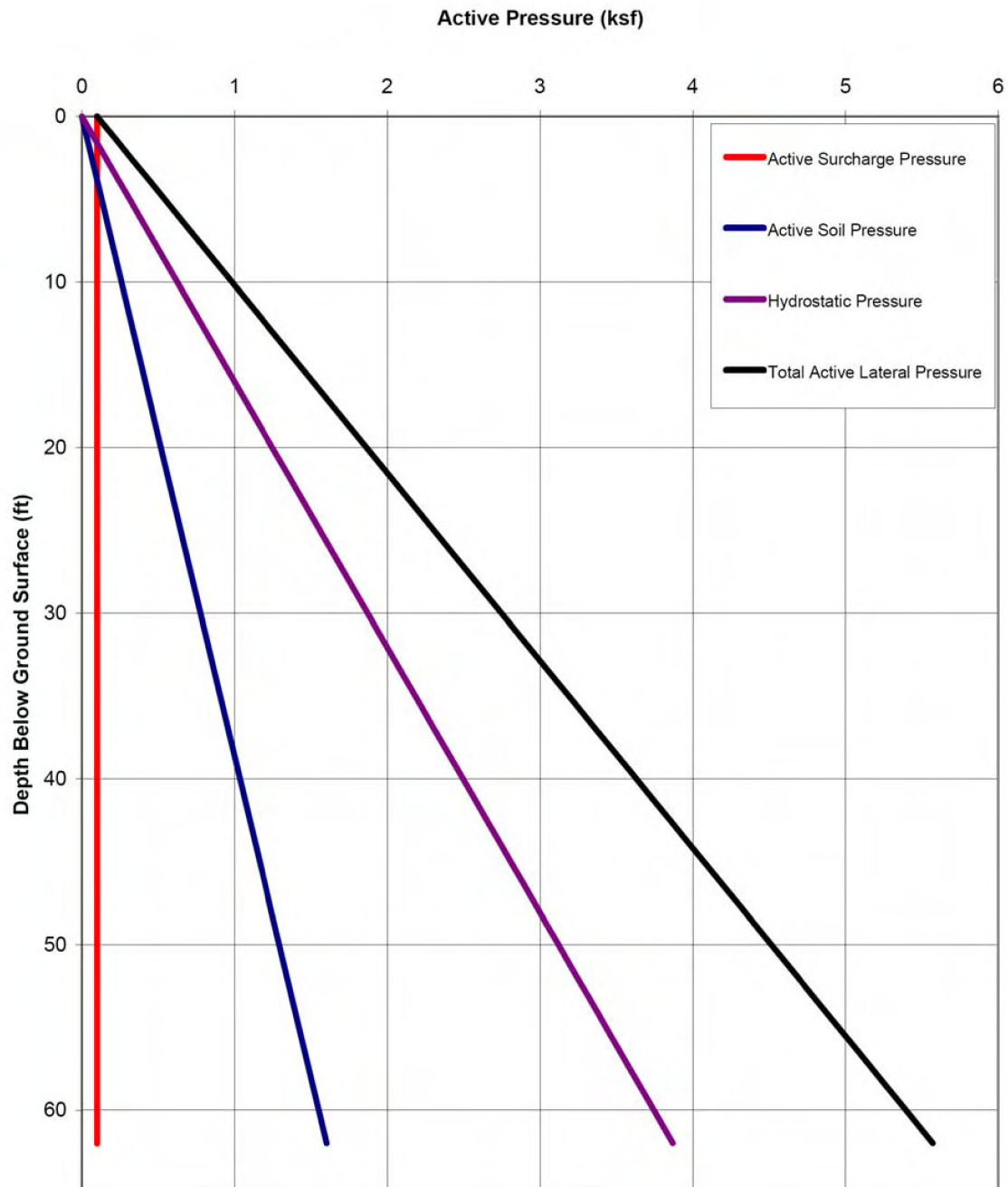
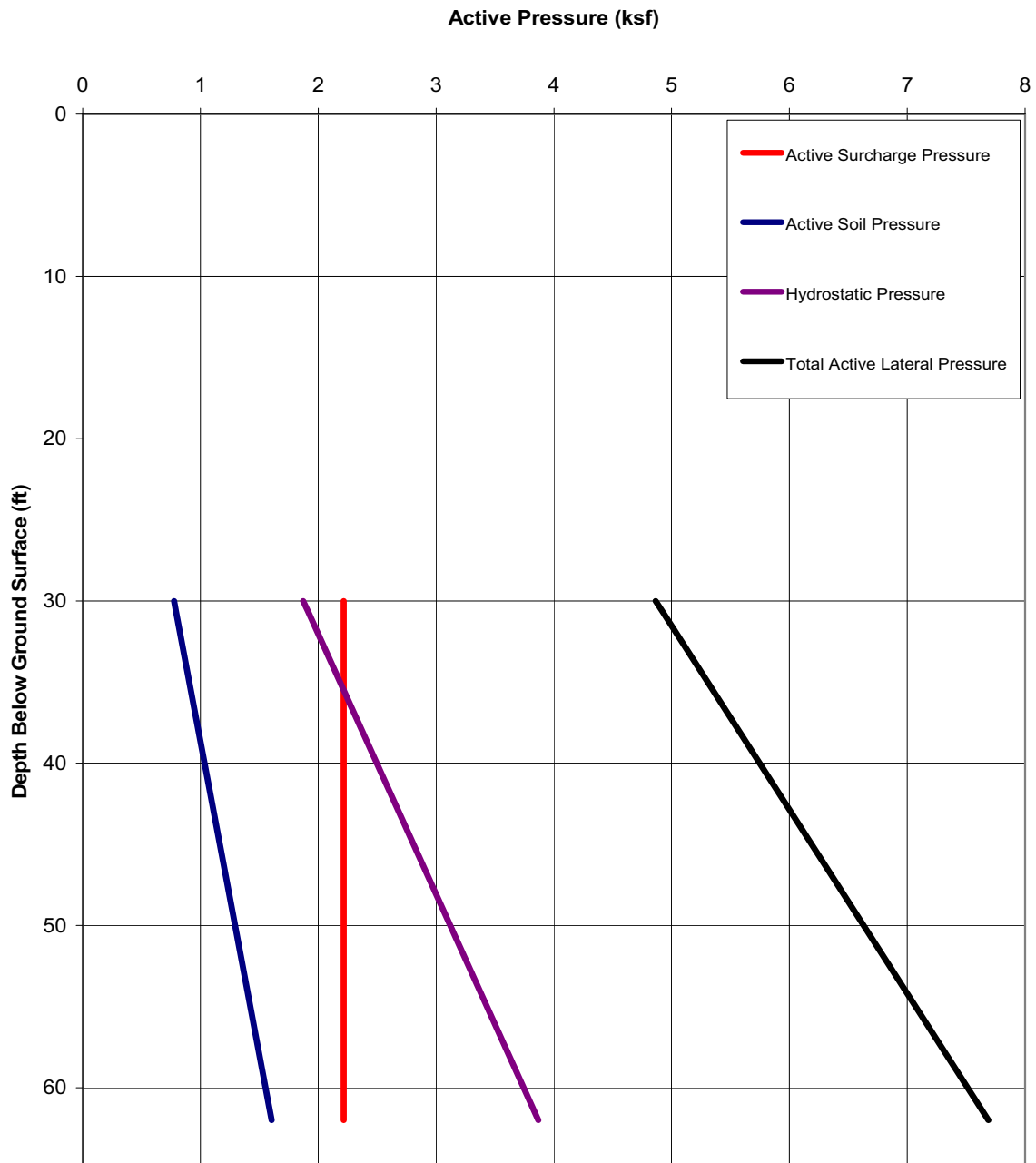


Figure 3H.6-233 Active Lateral Earth Pressure on the North, East and West Walls of the RSW Pump House



**Figure 3H.6-234 Active Lateral Earth Pressure on the South Wall of the RSW Pump House**

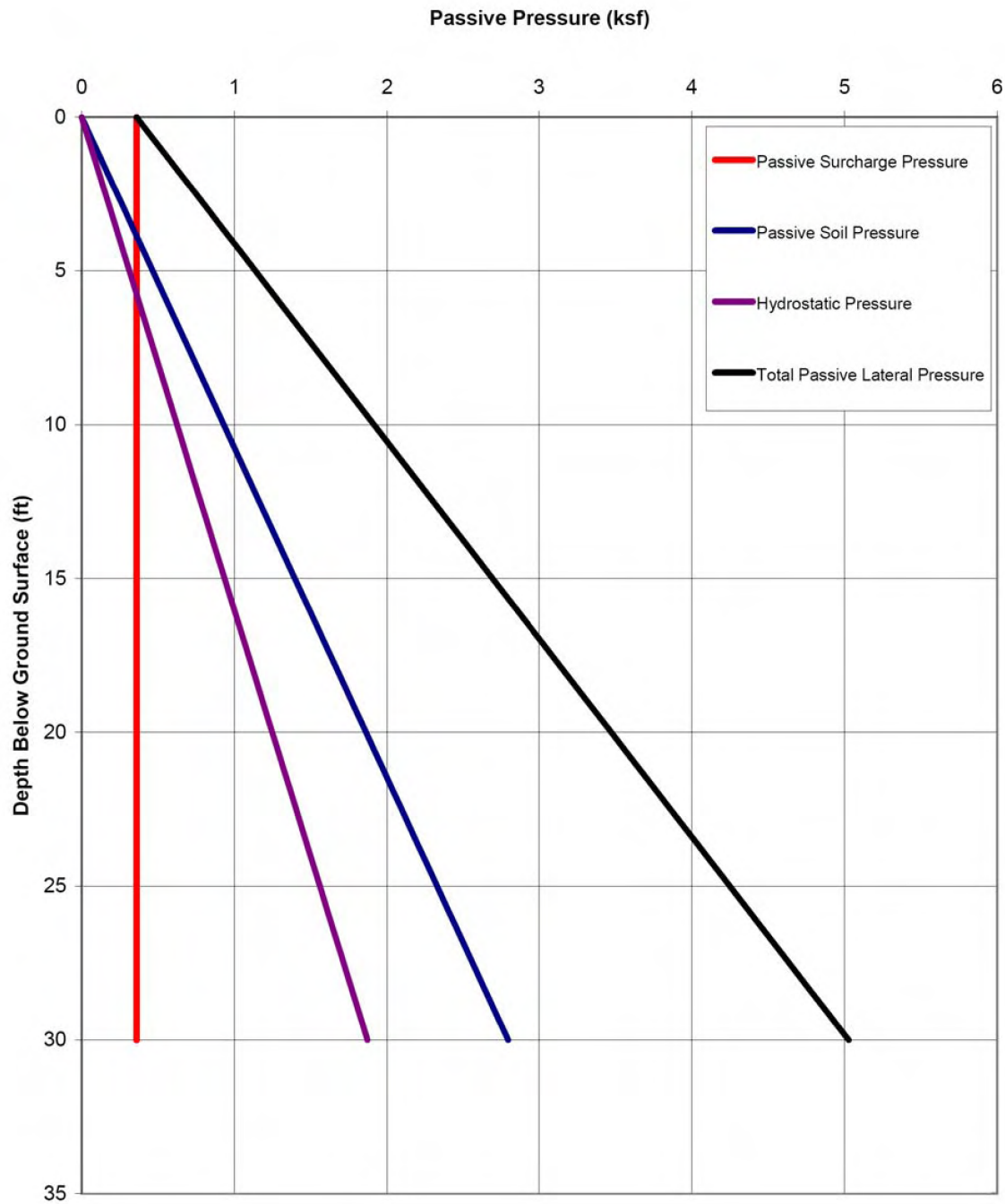


Figure 3H.6-235 Passive Lateral Earth Pressure on the UHS Basin Walls

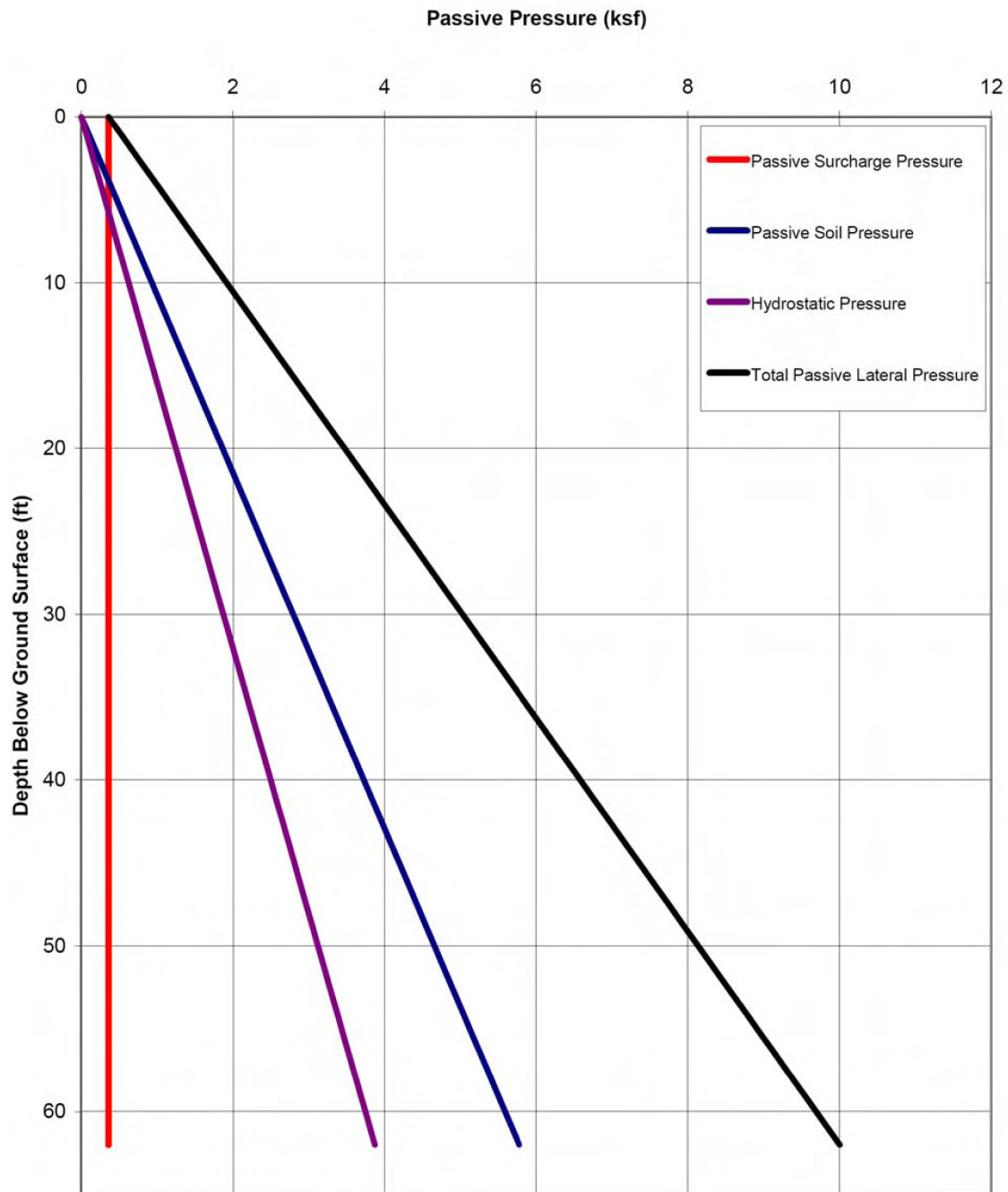
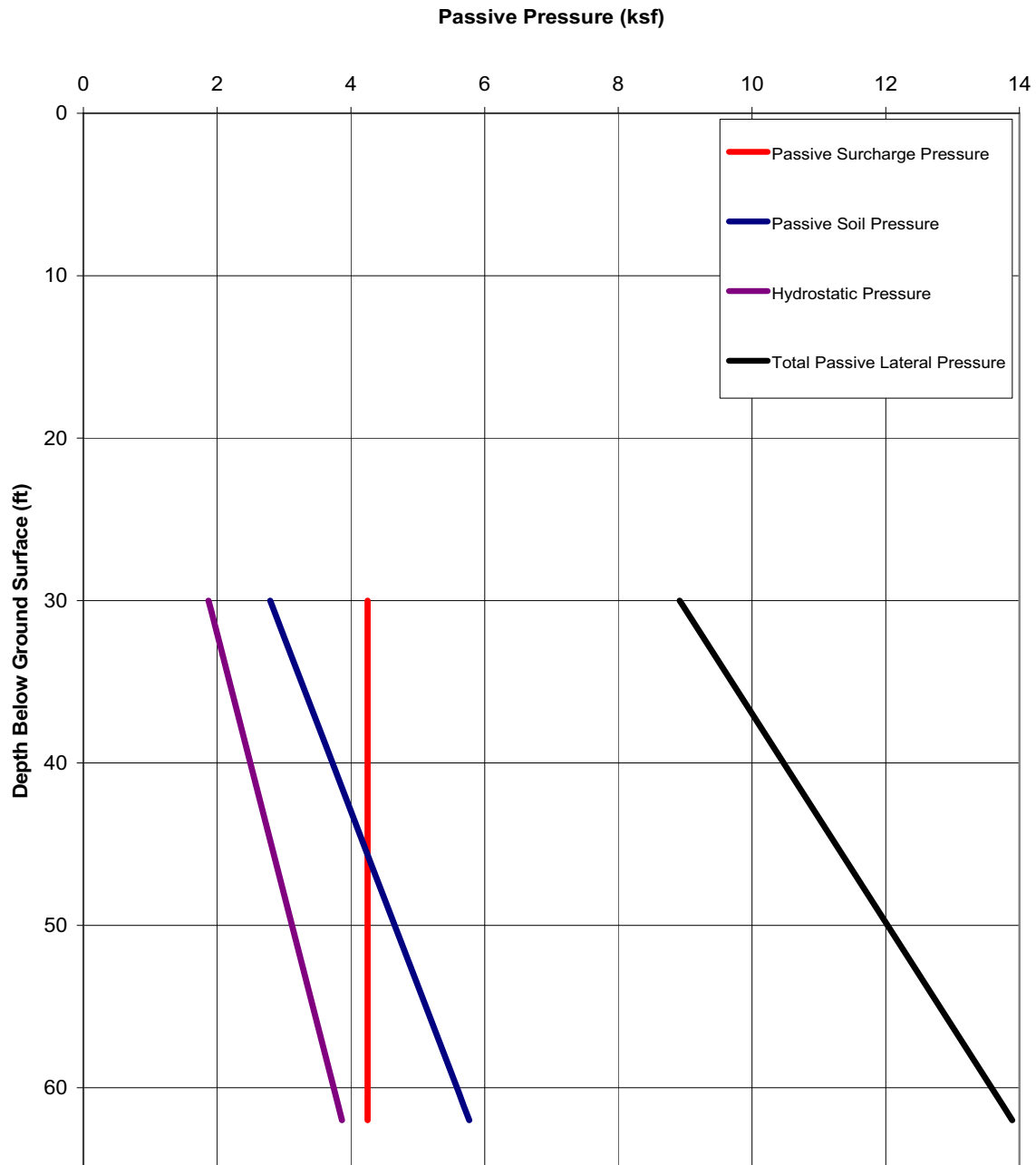
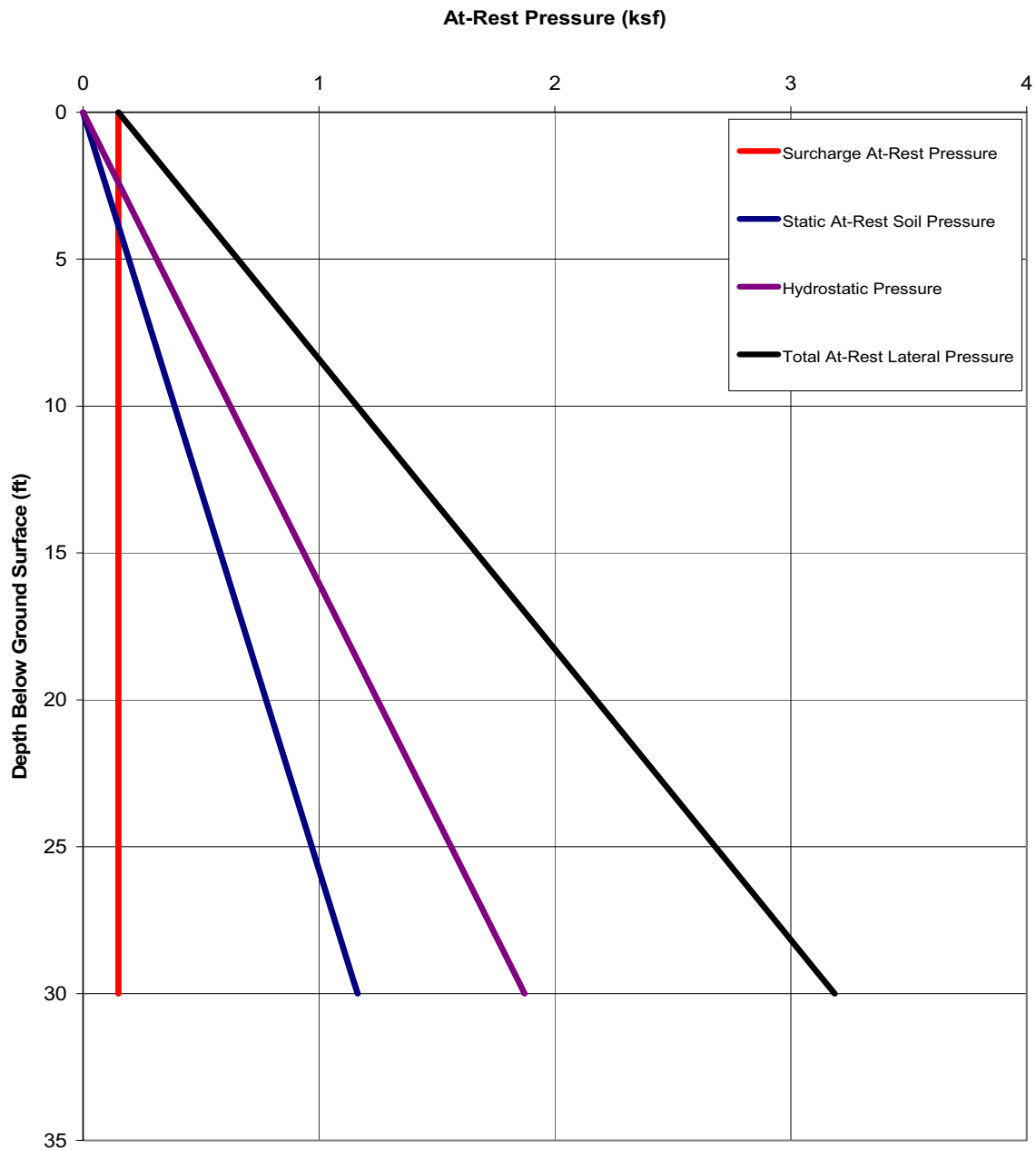


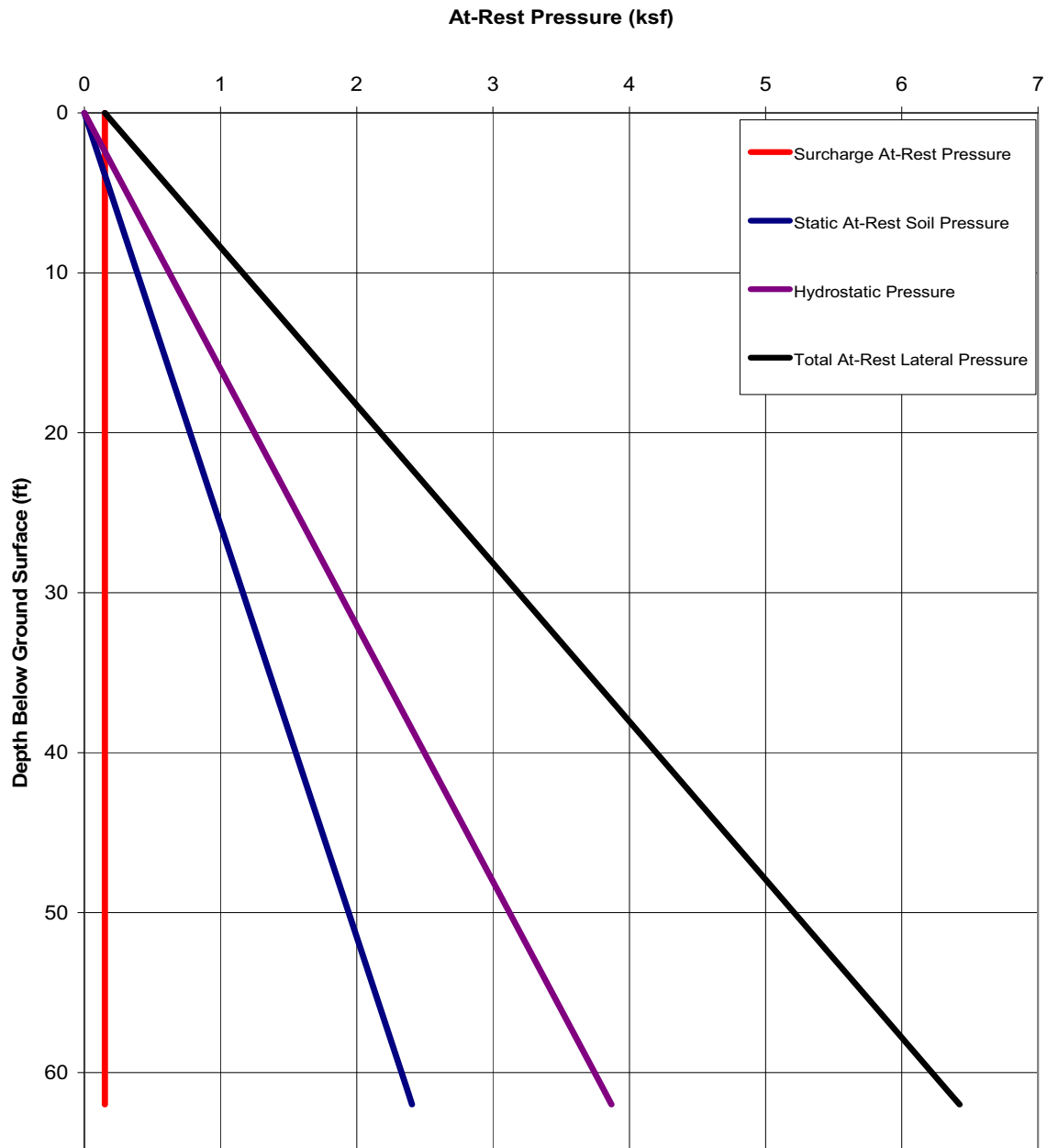
Figure 3H.6-236 Passive Lateral Earth Pressure on the North, East and West Walls of the RSW Pump House



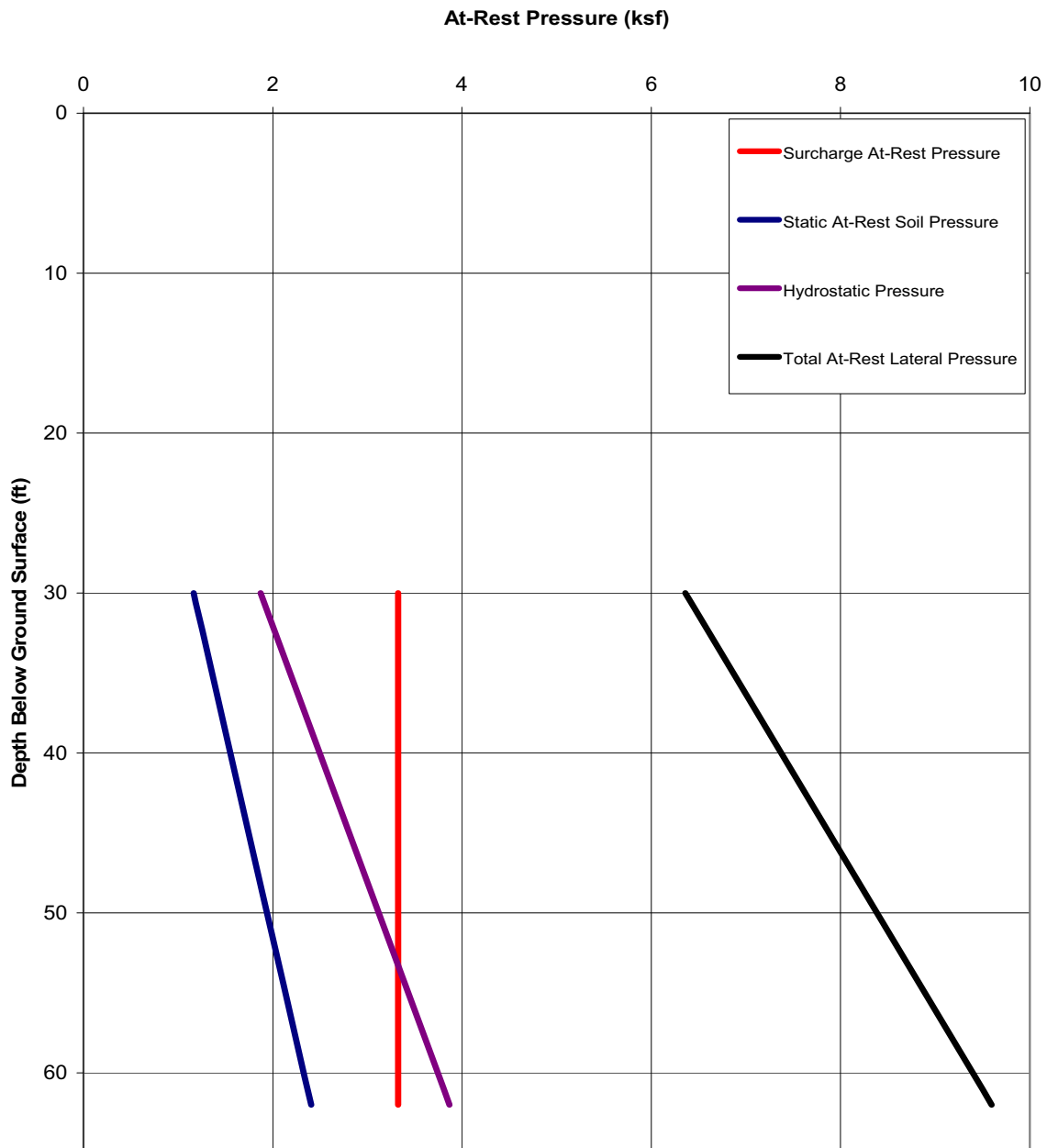
**Figure 3H.6-237 Passive Lateral Earth Pressure on the South Wall of the RSW Pump House**



**Figure 3H.6-238 At-Rest Lateral Earth Pressure on the UHS Basin Walls**

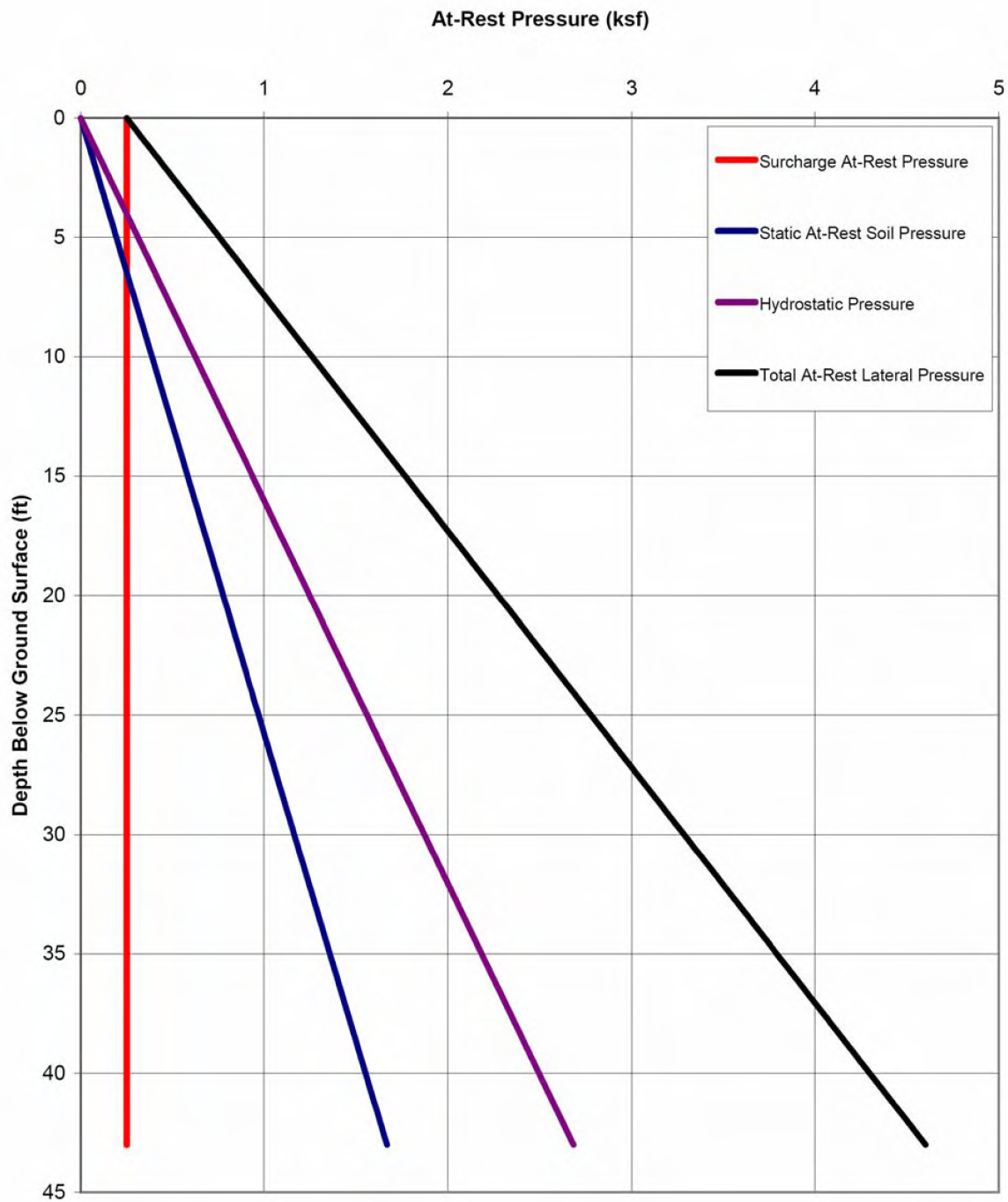


**Figure 3H.6-239 At-Rest Lateral Earth Pressure on the North, East and West Walls of the RSW Pump House**

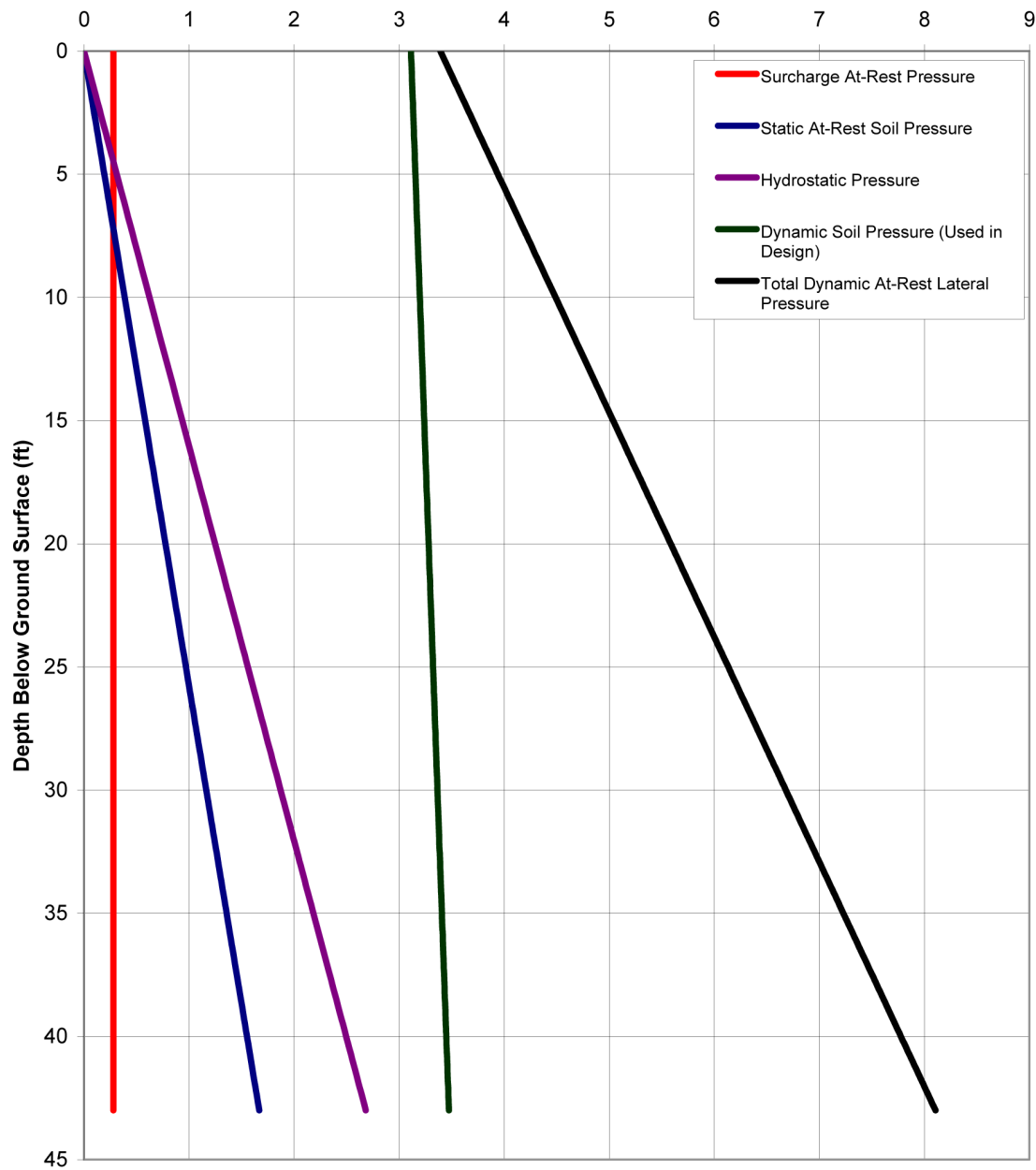


**Figure 3H.6-240 At-Rest Lateral Earth Pressure on the South Wall of the RSW Pump House**





**Figure 3H.6-241 At-Rest Lateral Earth Pressure on the Diesel Generator Fuel Oil Storage Vault Walls**



**Figure 3H.6-242 Dynamic At-Rest Lateral Earth Pressure on the Diesel Generator Fuel Oil Storage Vault Walls**

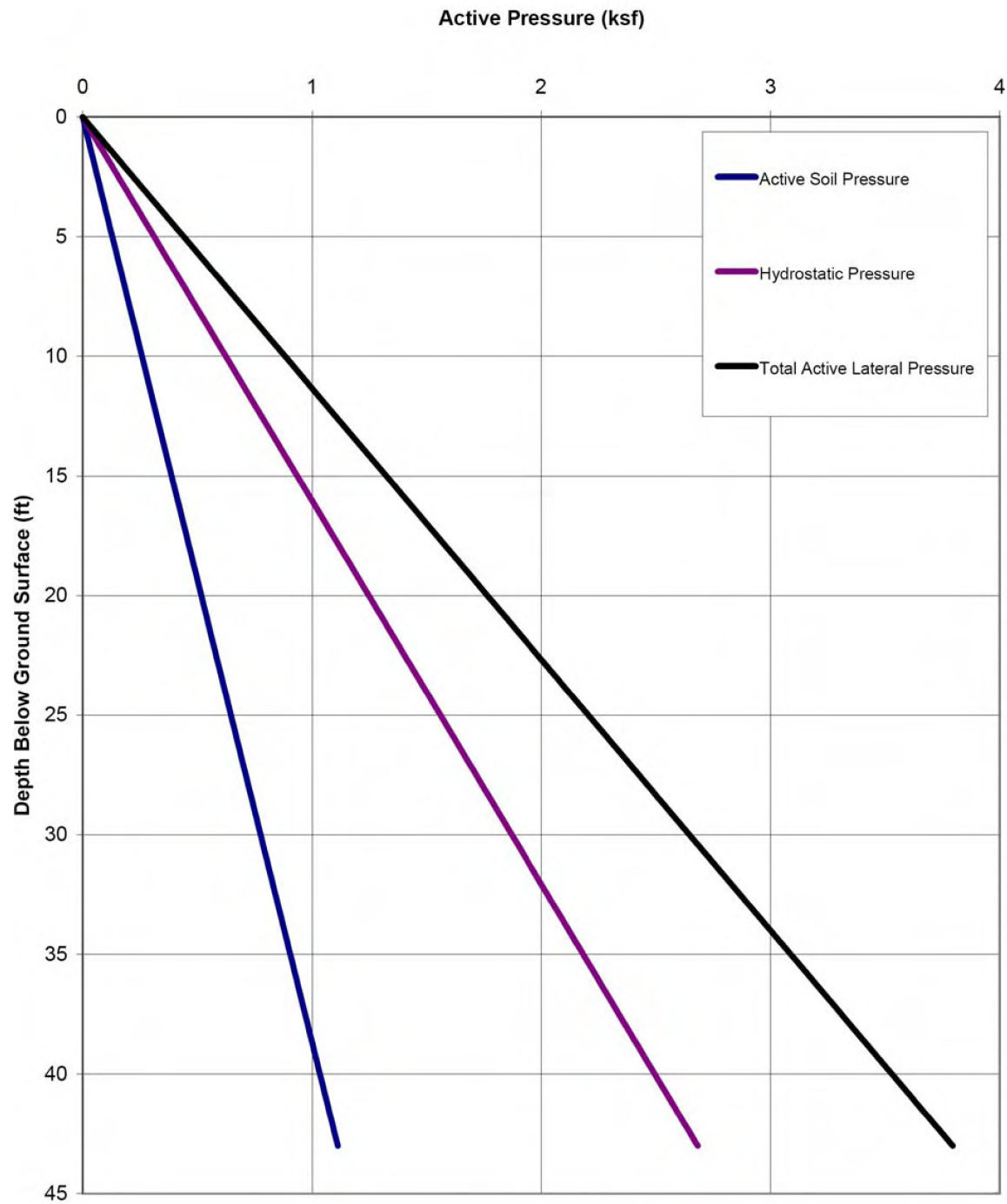


Figure 3H.6-243 Active Lateral Earth Pressure on the Diesel Generator Fuel Oil Storage Vault Walls

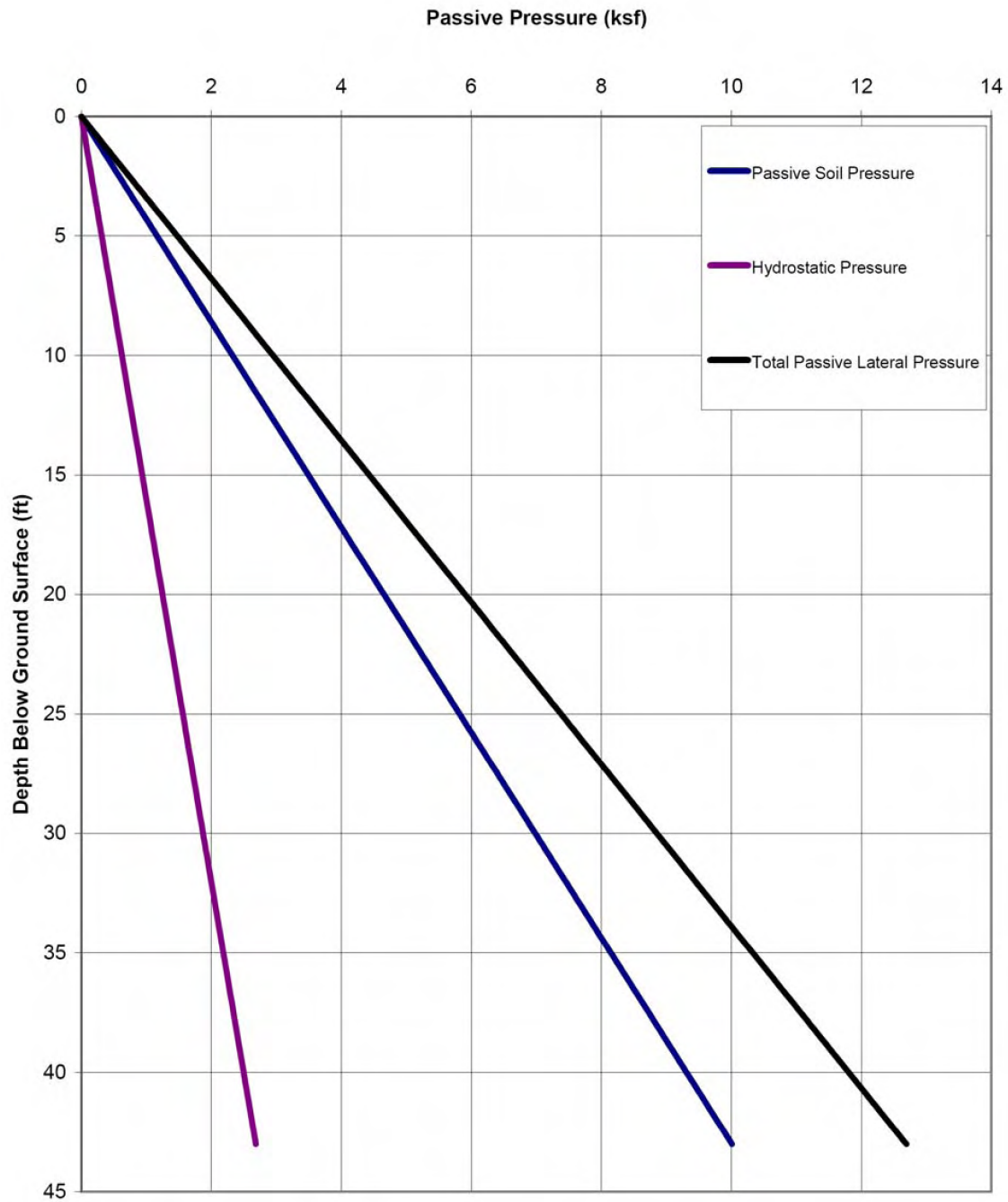


Figure 3H.6-244 Passive Lateral Earth Pressure on the Diesel Generator Fuel Oil Storage Vault Walls

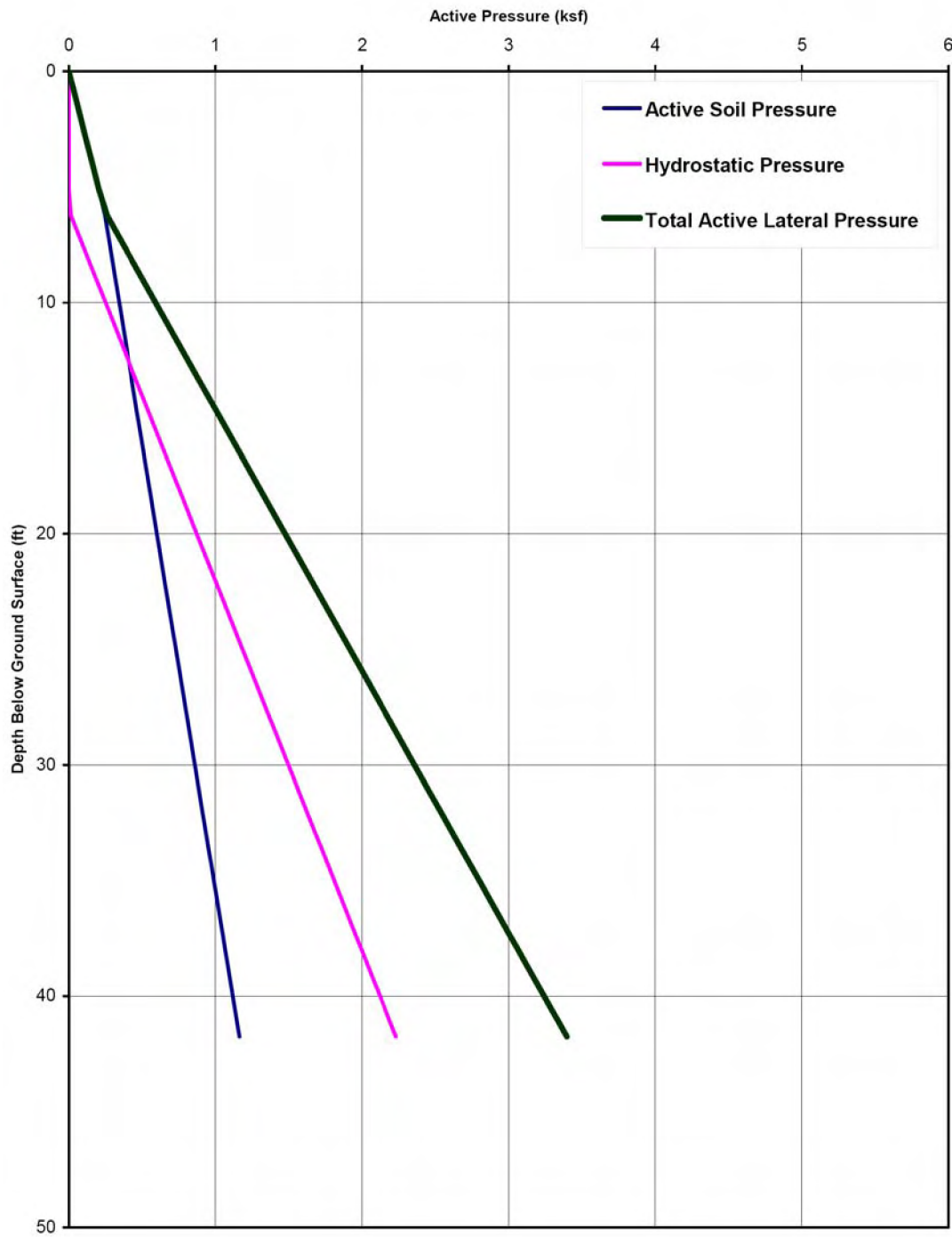
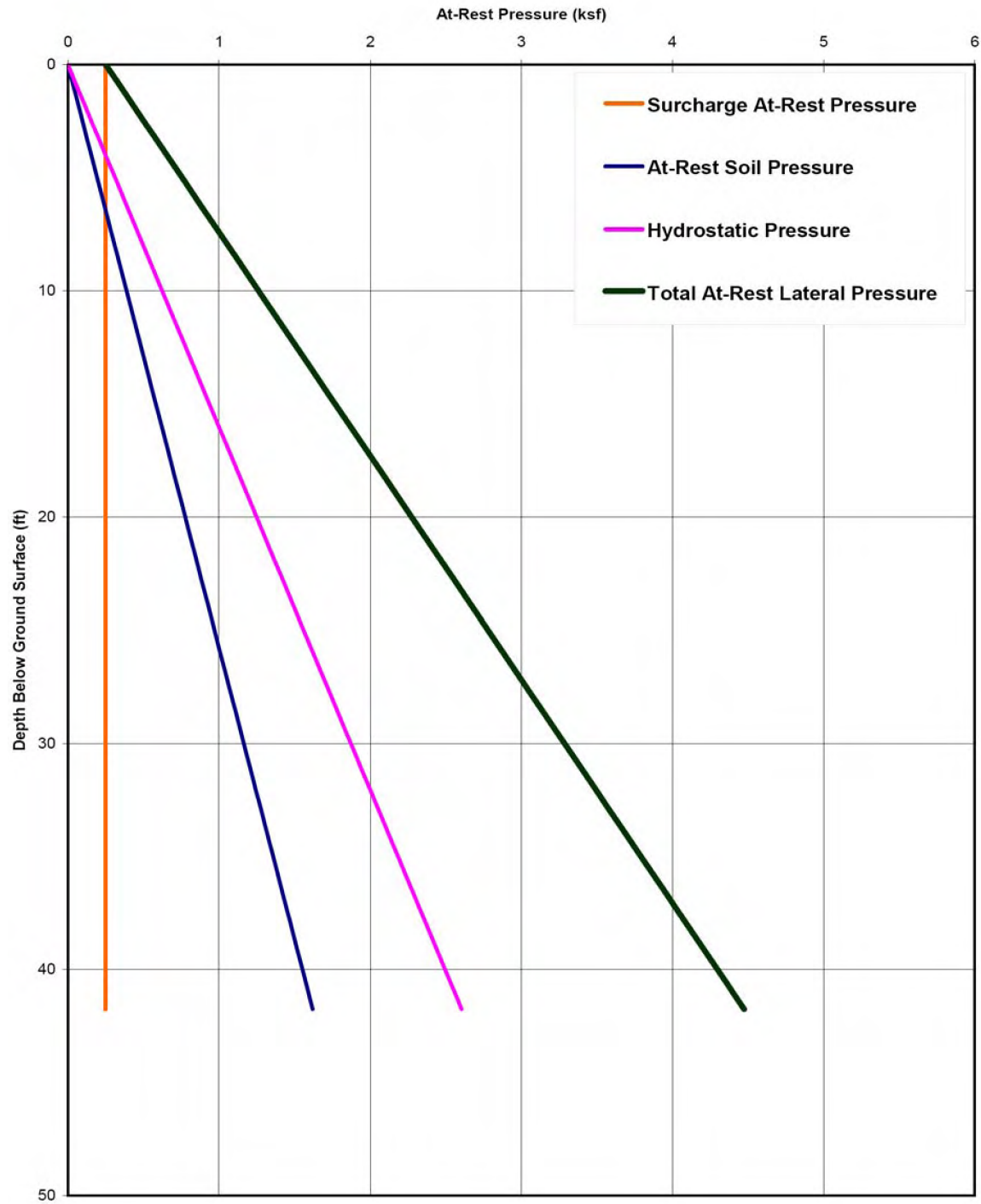


Figure 3H.6-245 Active Lateral Earth Pressure Diagrams for Typical Section of RSW Tunnel



**Figure 3H.6-246 At-Rest Lateral Earth Pressure Diagrams for Typical Section of RSW Tunnel**

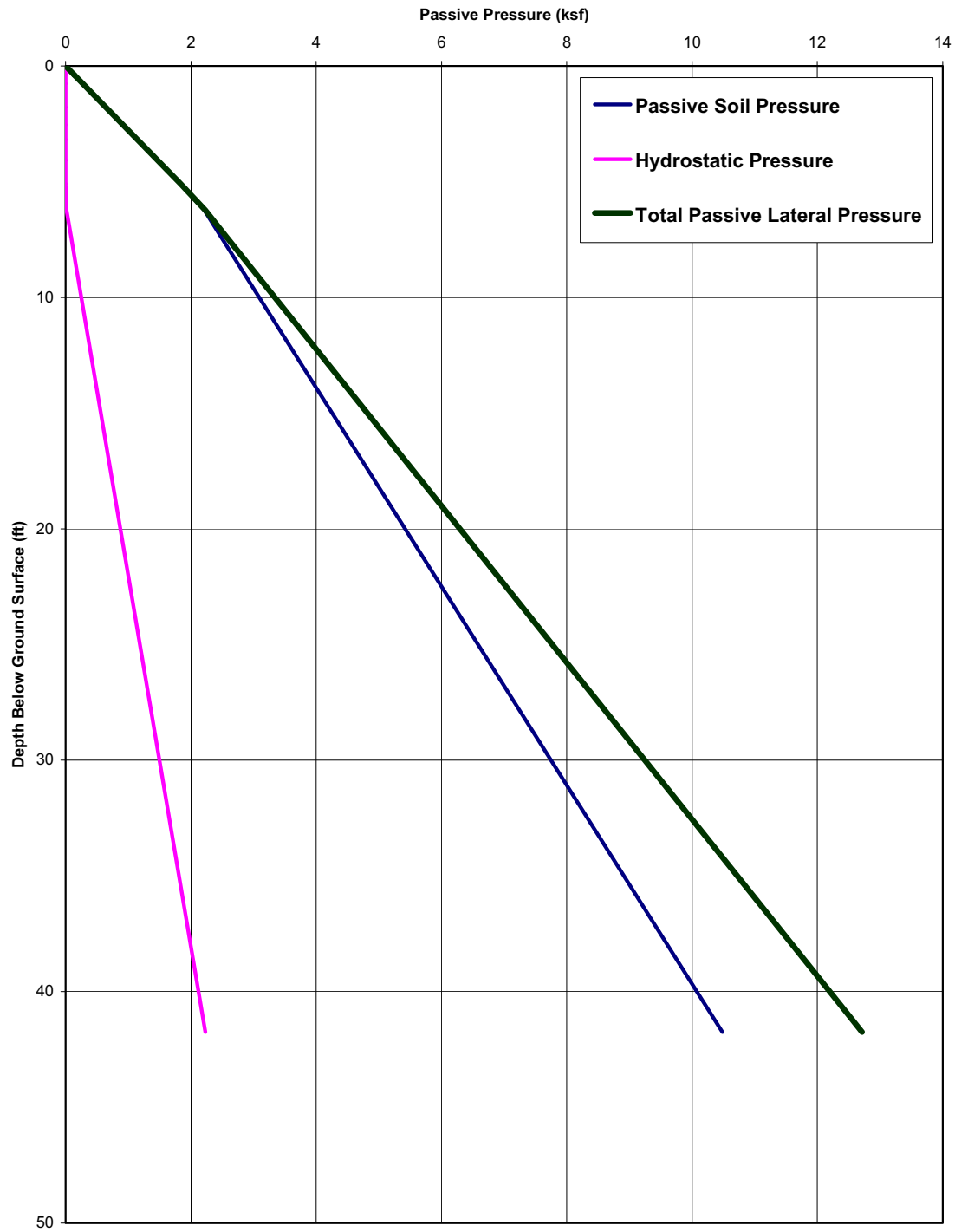
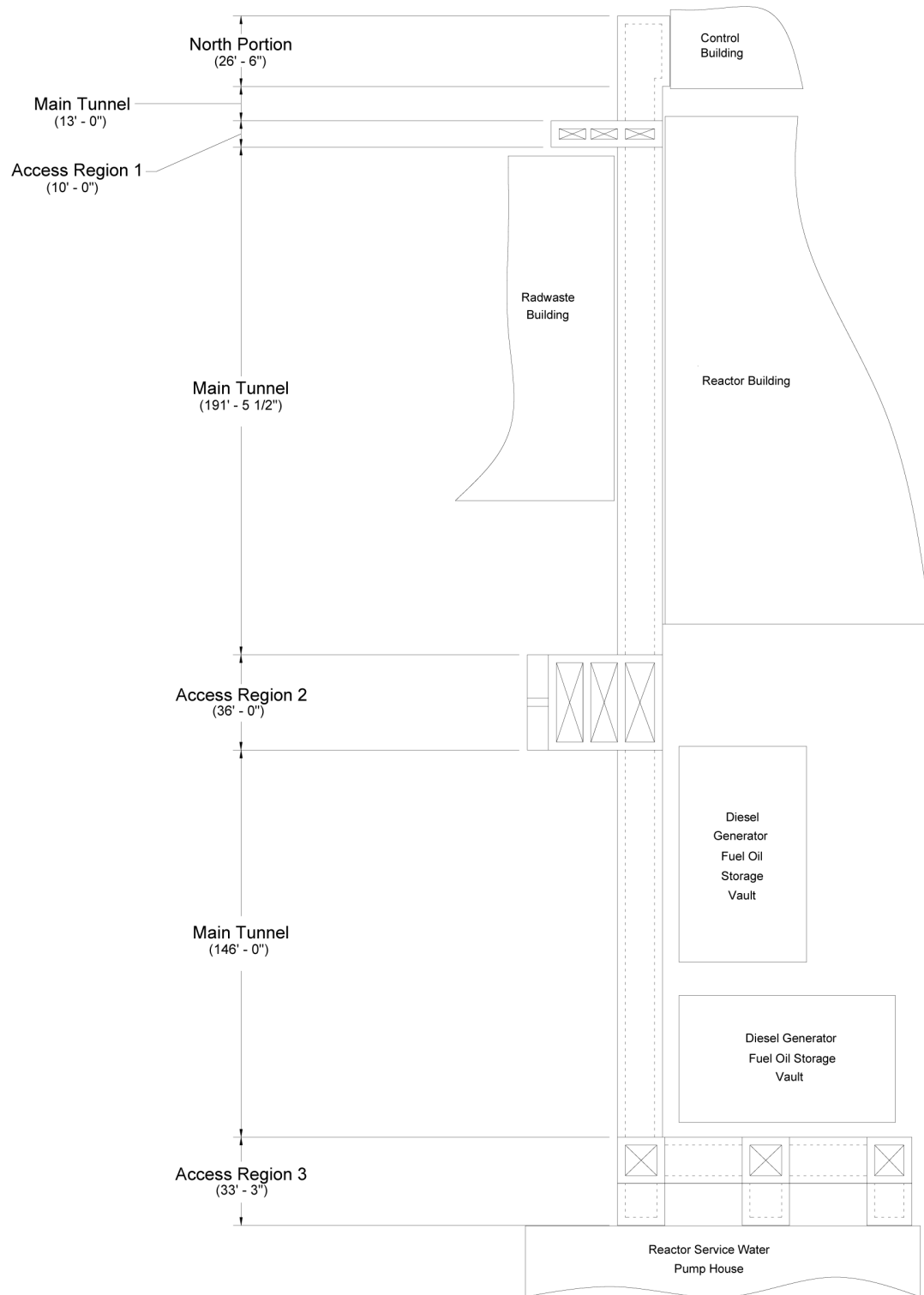


Figure 3H.6-247 Passive Lateral Earth Pressure Diagrams for Typical Section of RSW Tunnel

**Figure 3H.6-248 RSW Tunnel Plan View**



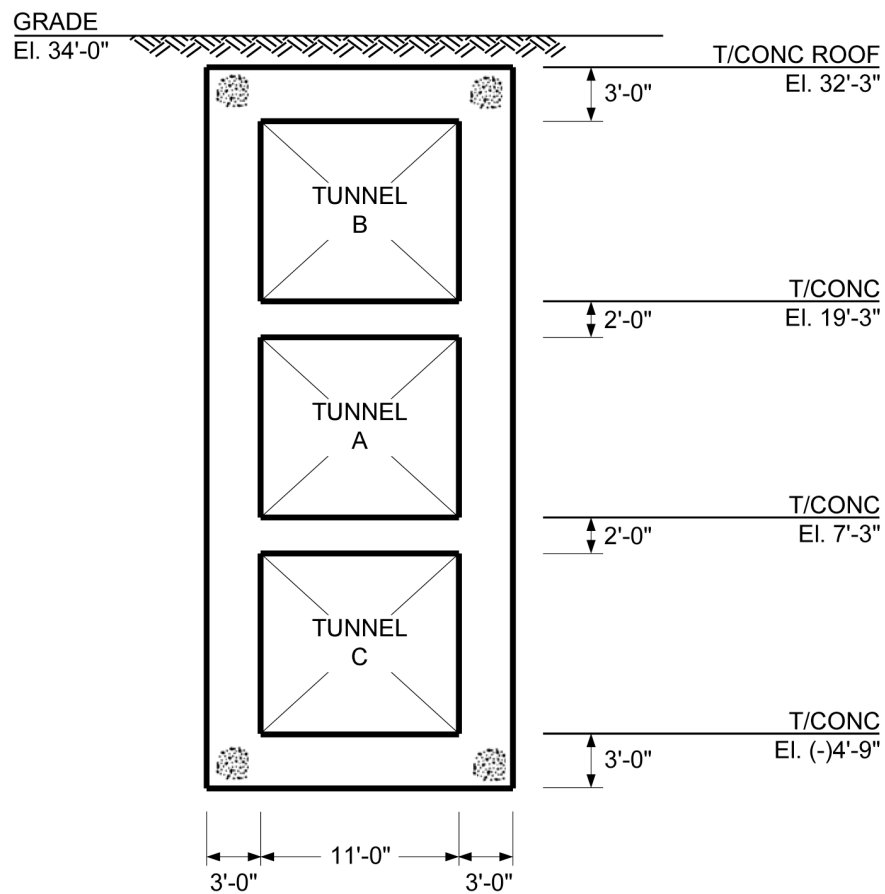


Figure 3H.6-249 Typical RSW Piping Tunnel Section

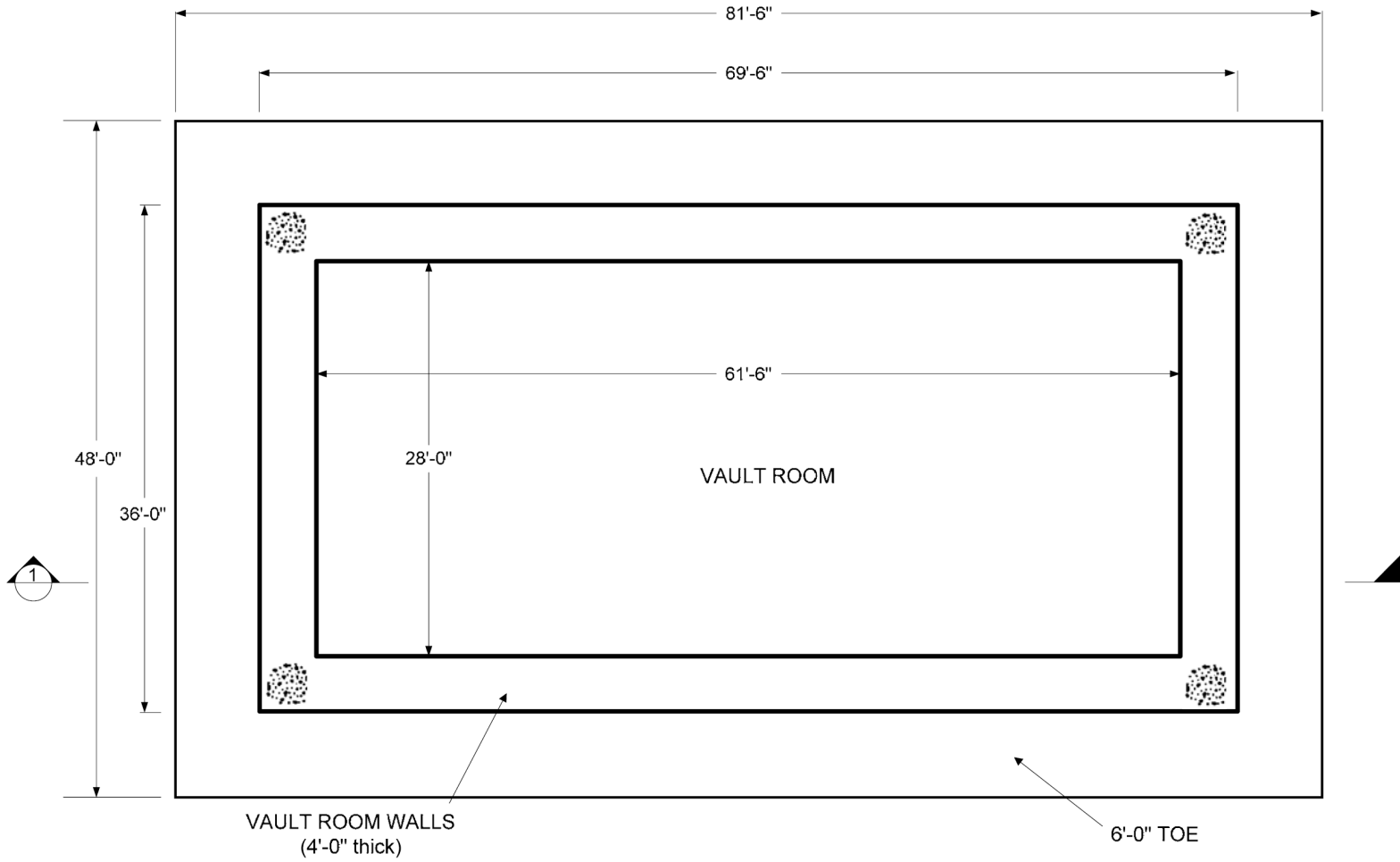
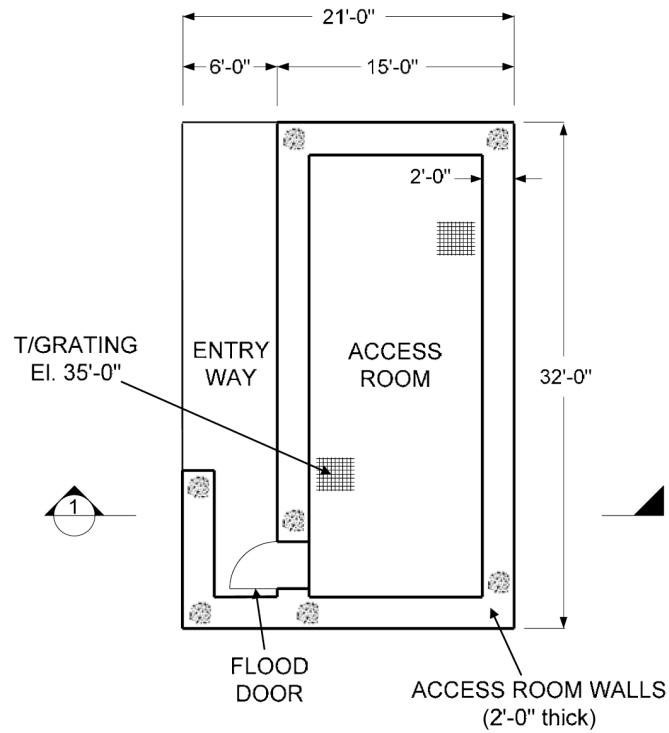


Figure 3H.6-250 Plan View of DGFOV at Elevation -3'-0"



**Figure 3H.6-251 Plan View of DGFOSV at Elevation 35'-0"**

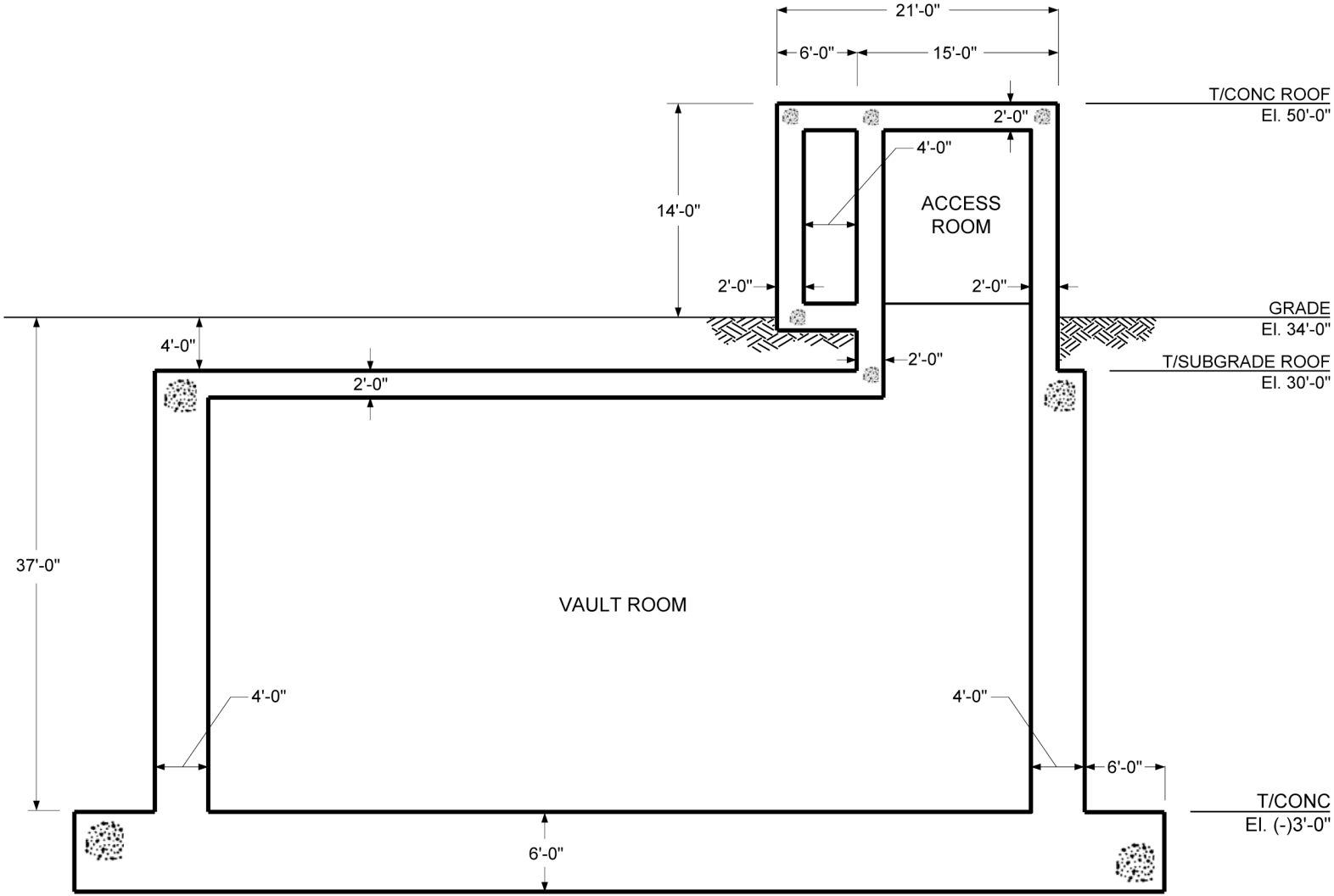


Figure 3H.6-252 DGFOSV Section 1

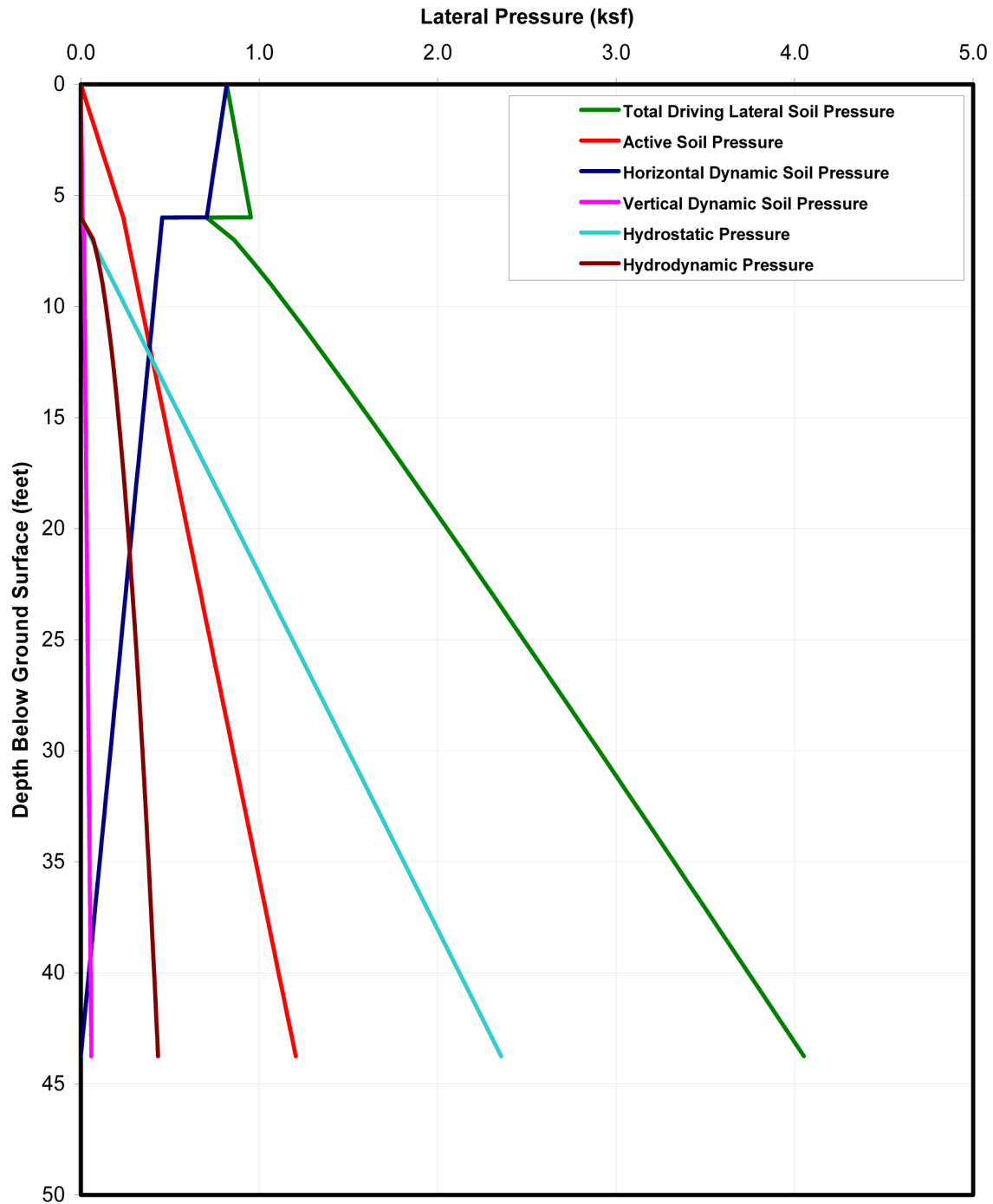
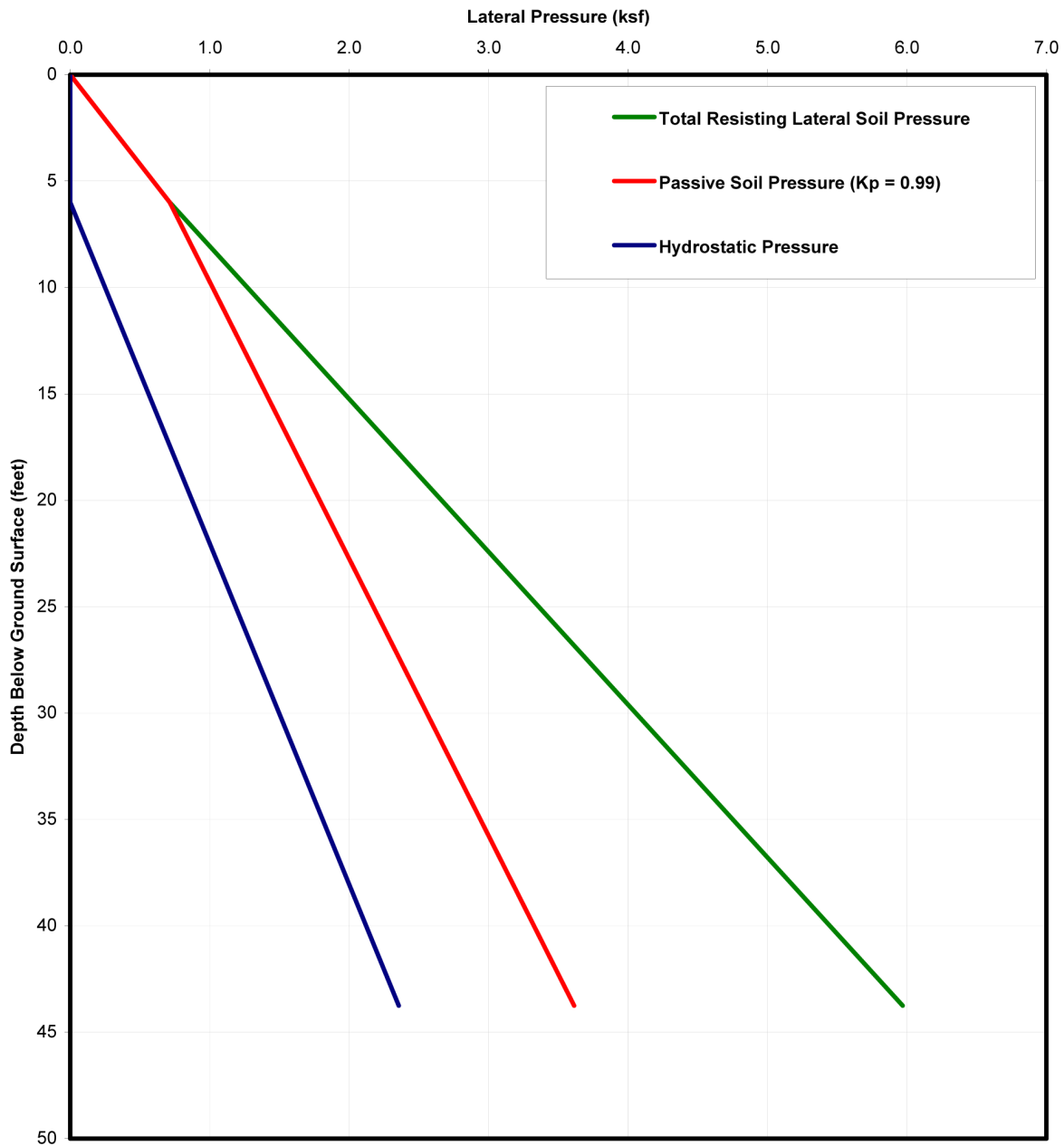
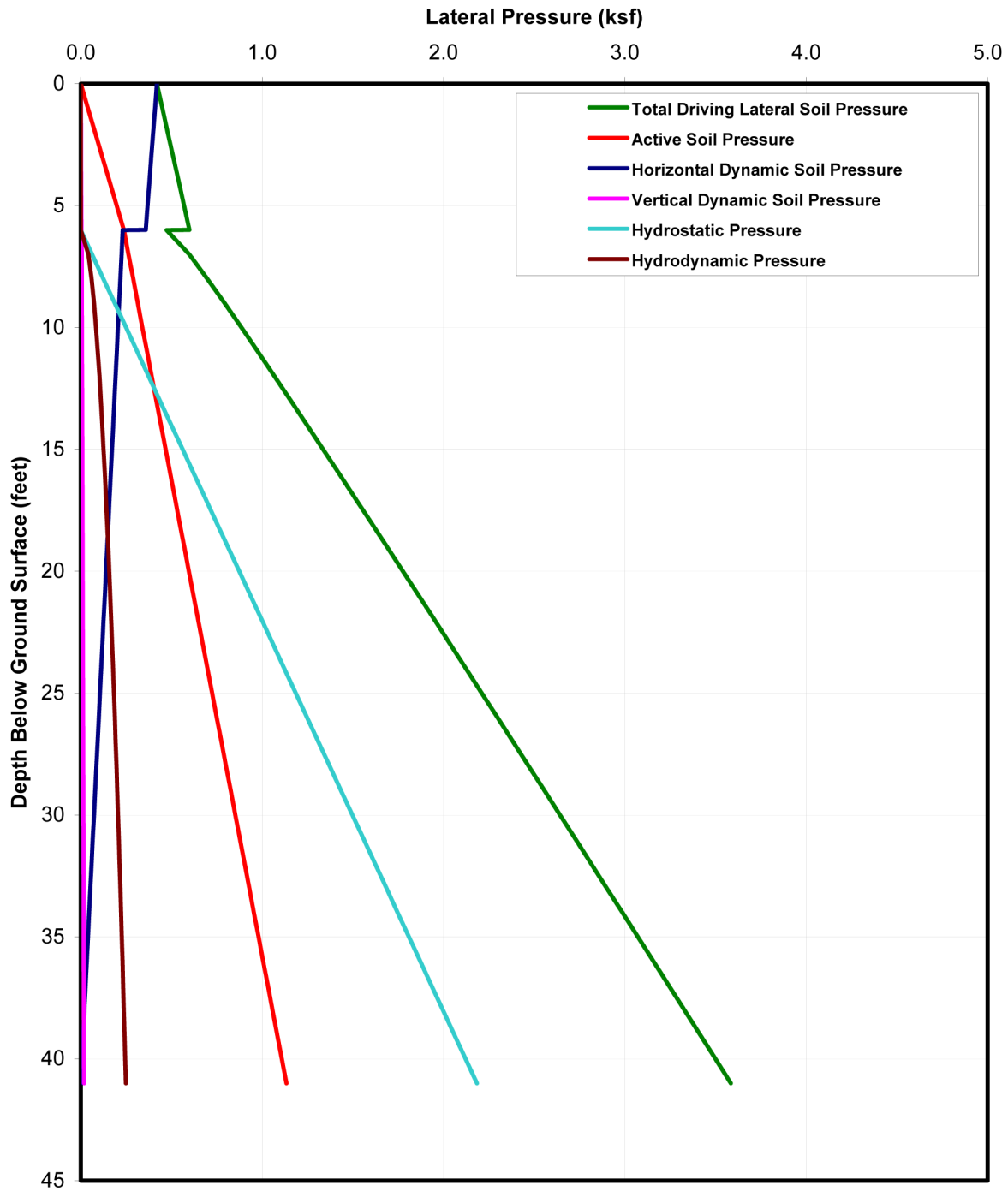


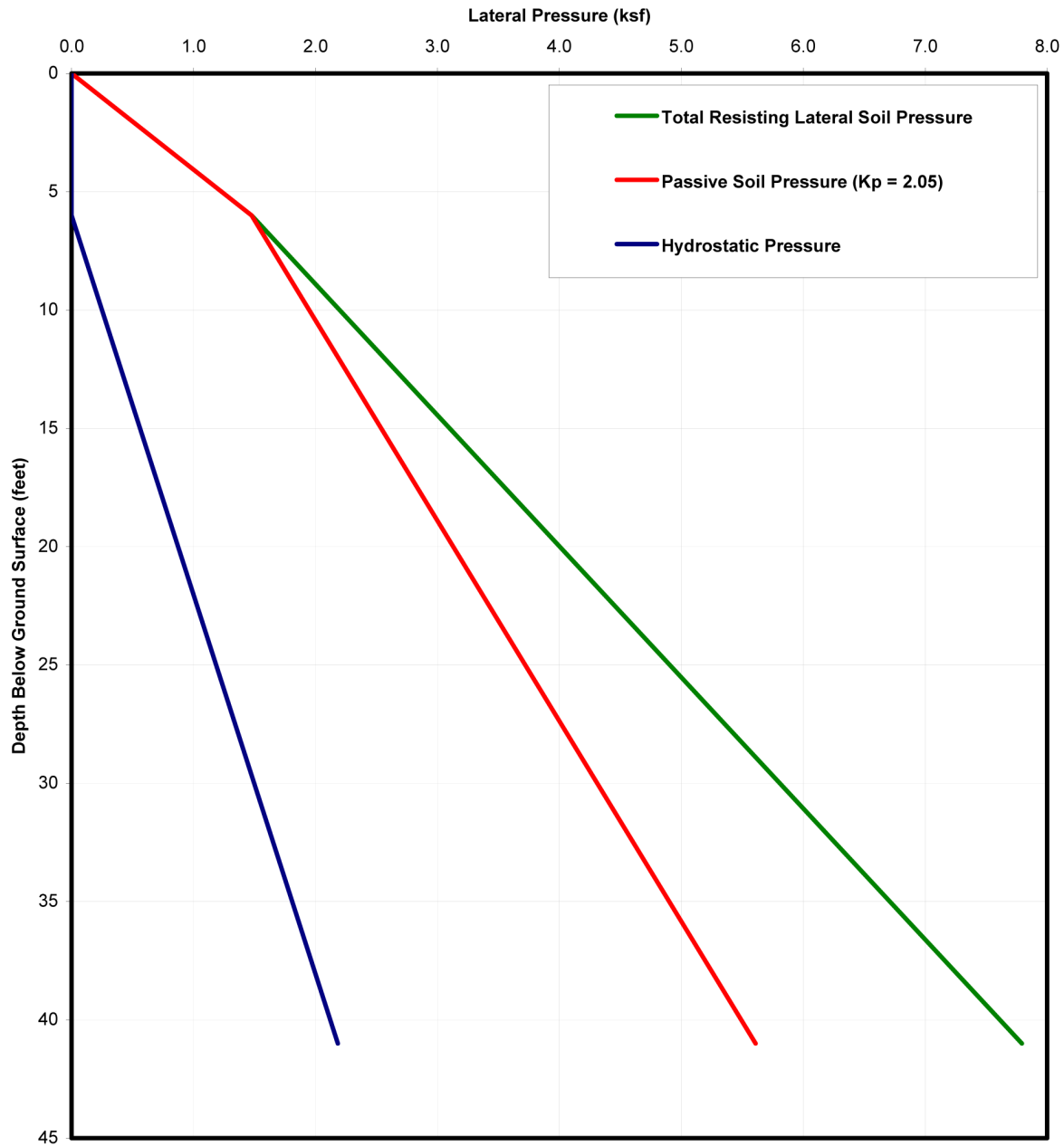
Figure 3H.6-253 Driving Lateral Pressure on the East and West Walls of RSW Tunnel  
(for Stability Evaluation)



**Figure 3H.6-254 Resisting Lateral Pressure on the East and West Walls of RSW Tunnel  
(for Stability Evaluation)**

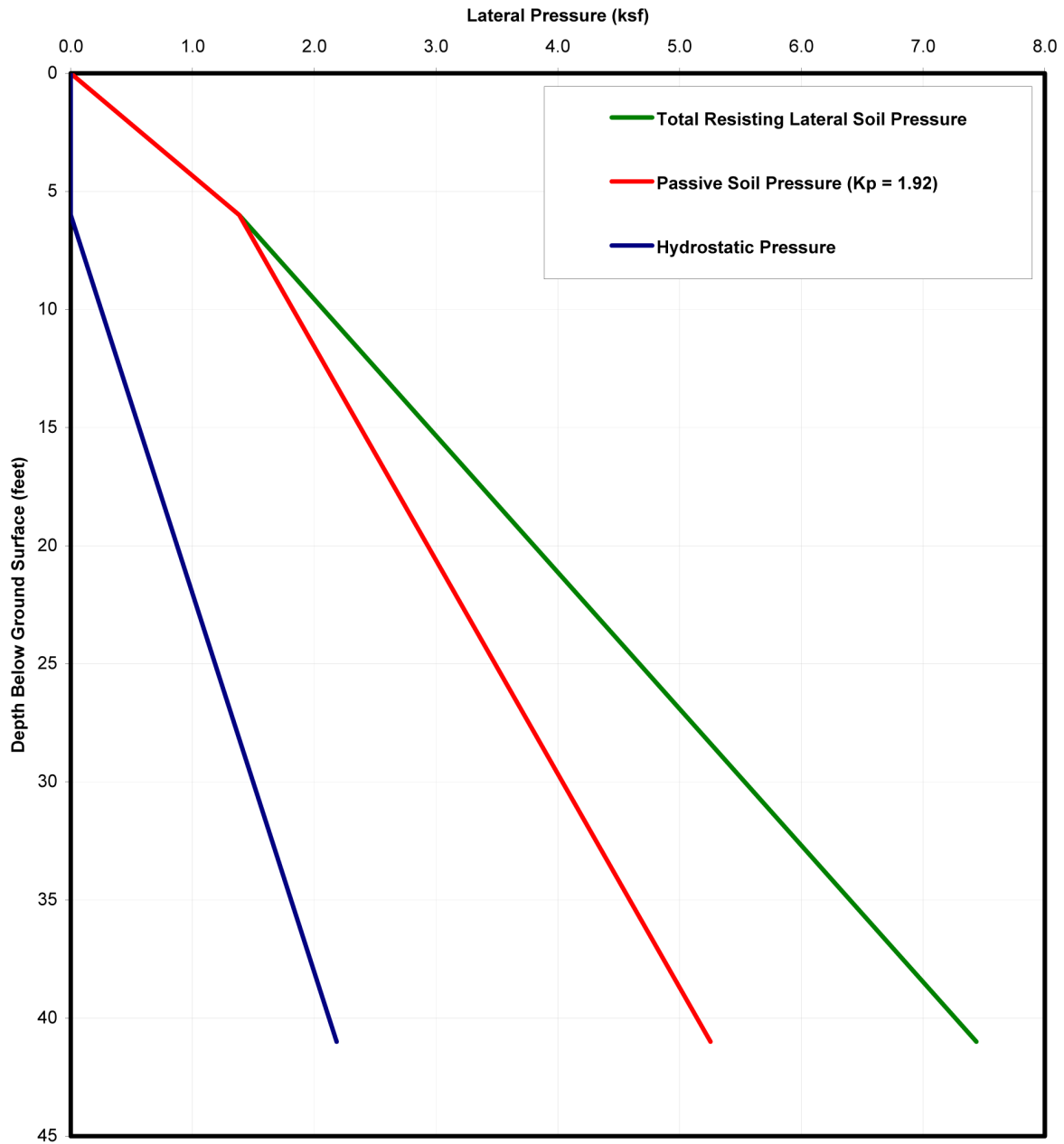


**Figure 3H.6-255 Driving Lateral Pressure on the North, East, South, and West Walls of DGFOVS (for Stability Evaluation)**

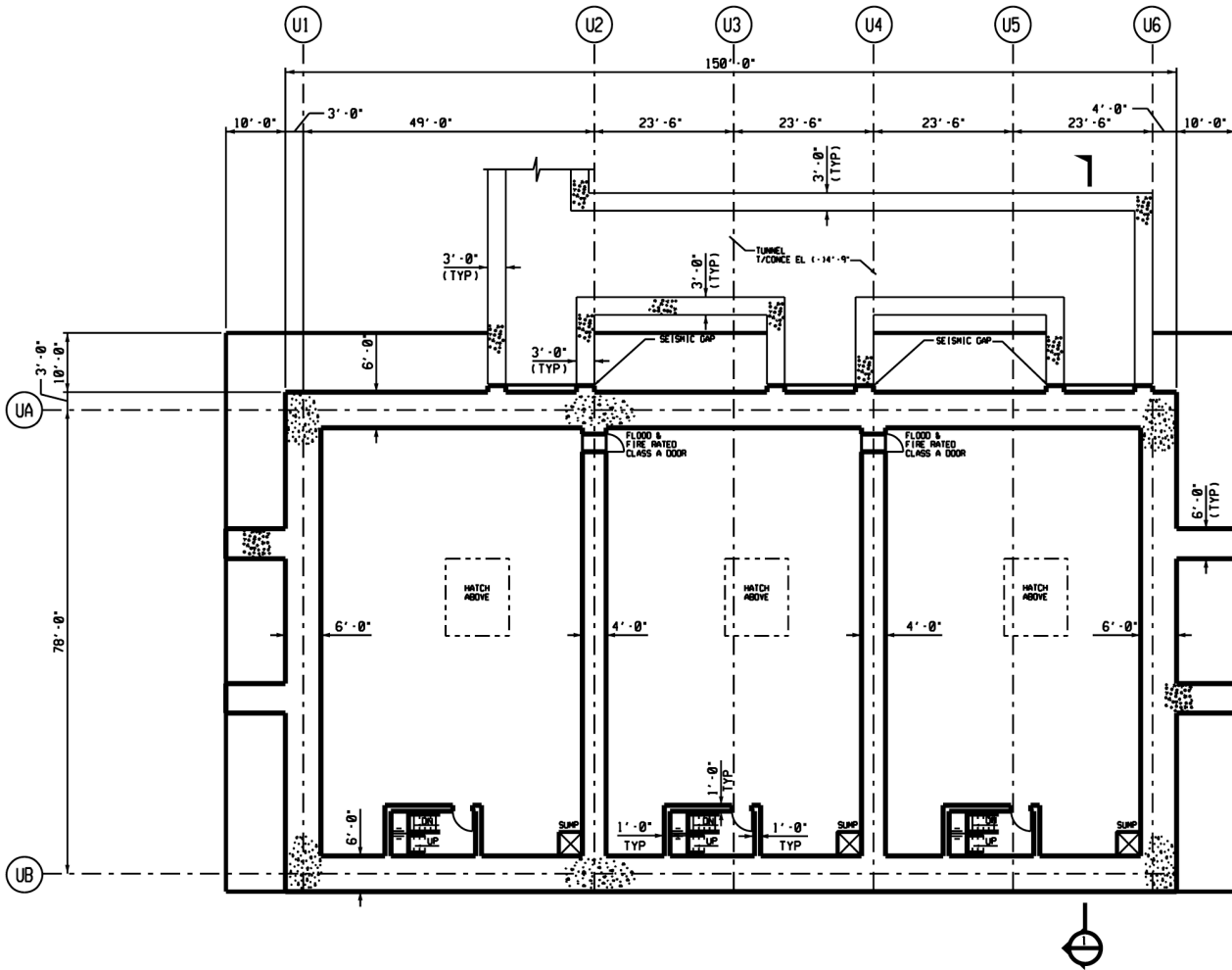
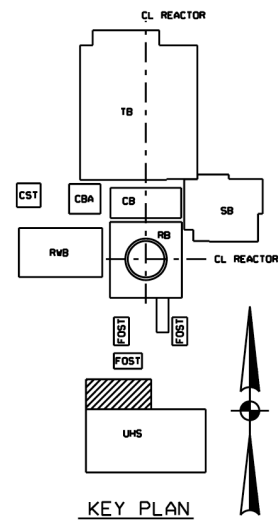


**Figure 3H.6-256 Resisting Lateral Pressure on Walls of DGFO SV Perpendicular to Tank  
(for Stability Evaluation)**





**Figure 3H.6-257 Resisting Lateral Pressure on Walls of DGFOV Parallel to Tank  
(for Stability Evaluation)**



**Figure 3H.6-258 RSW Pump House Floor Plan at Elevation -18'-0"**

**Figure 3H.6-259 UHS Basin Plan at Elevation 14'-0"**

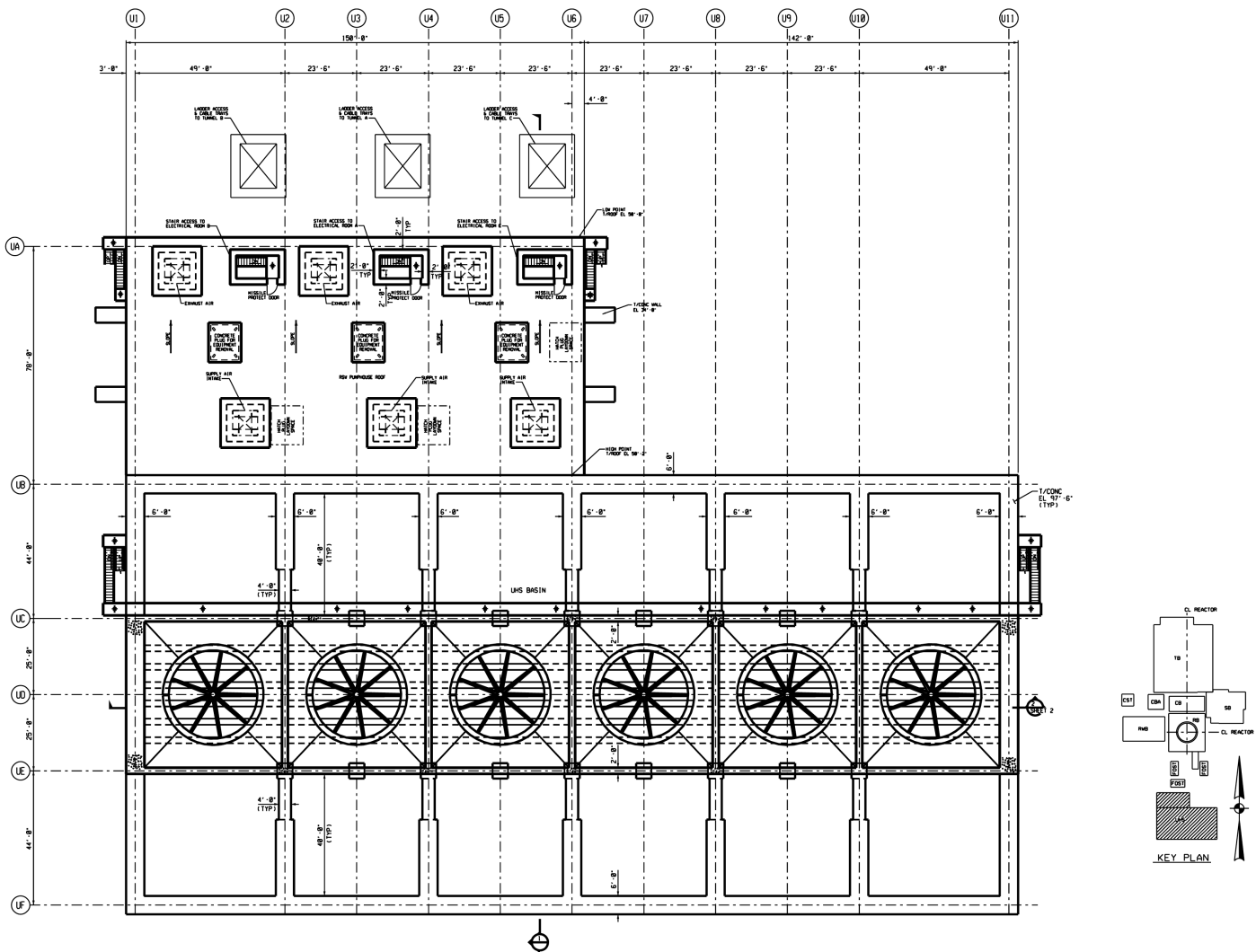


Figure 3H.6-260 UHS Tower Upper Level

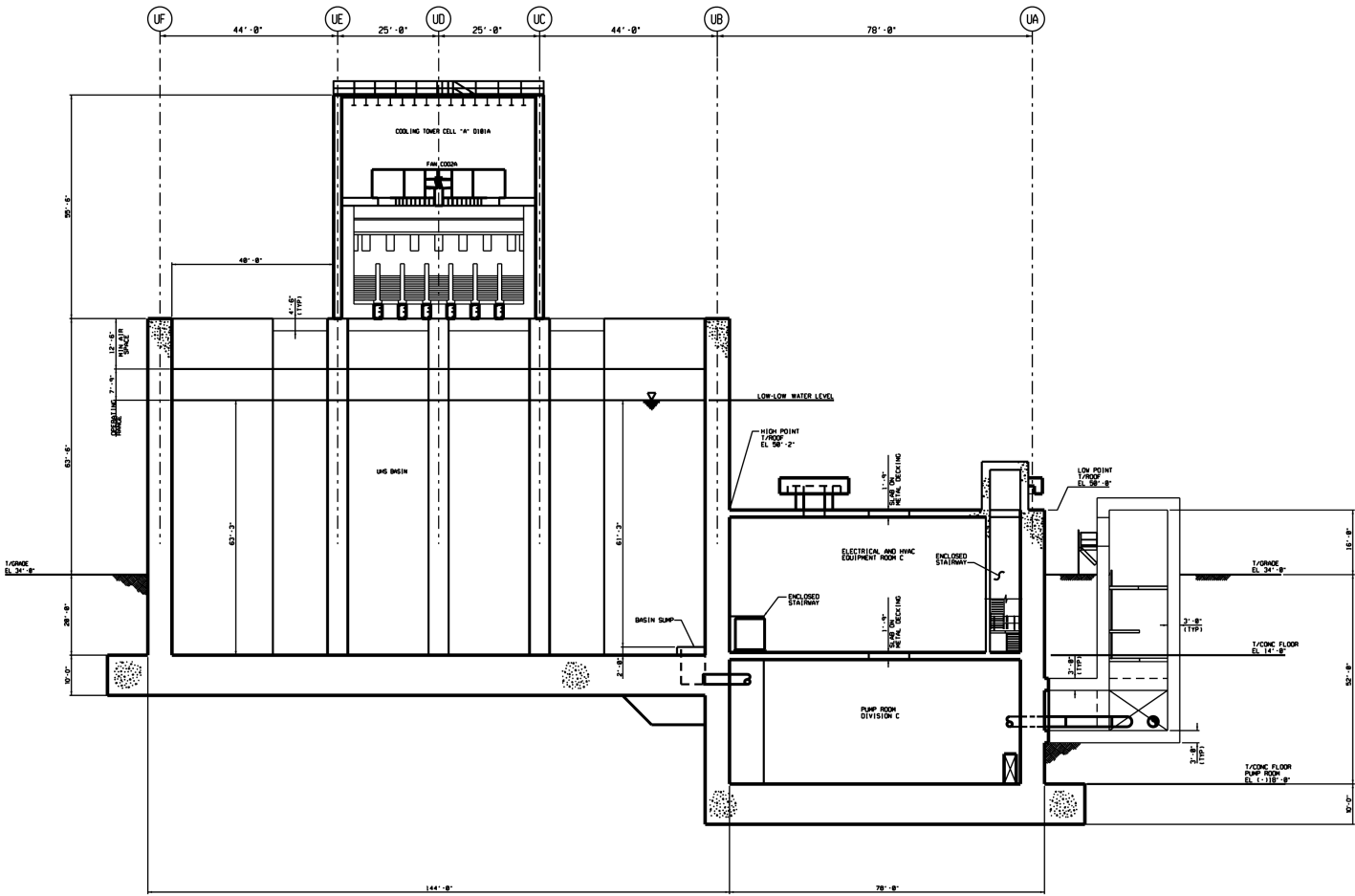
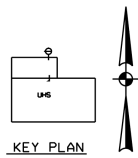


Figure 3H.6-261 UHS/RSW Pump House, Section 1

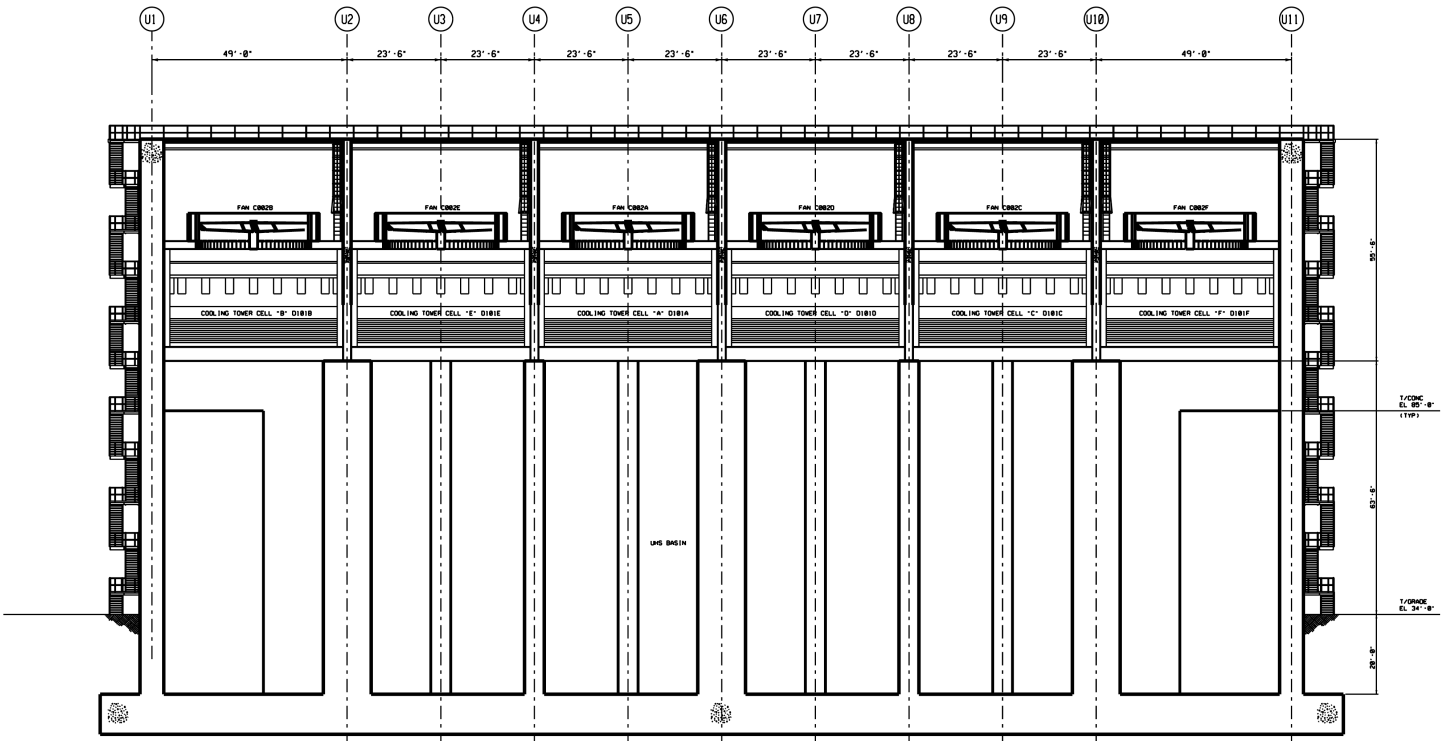
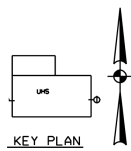
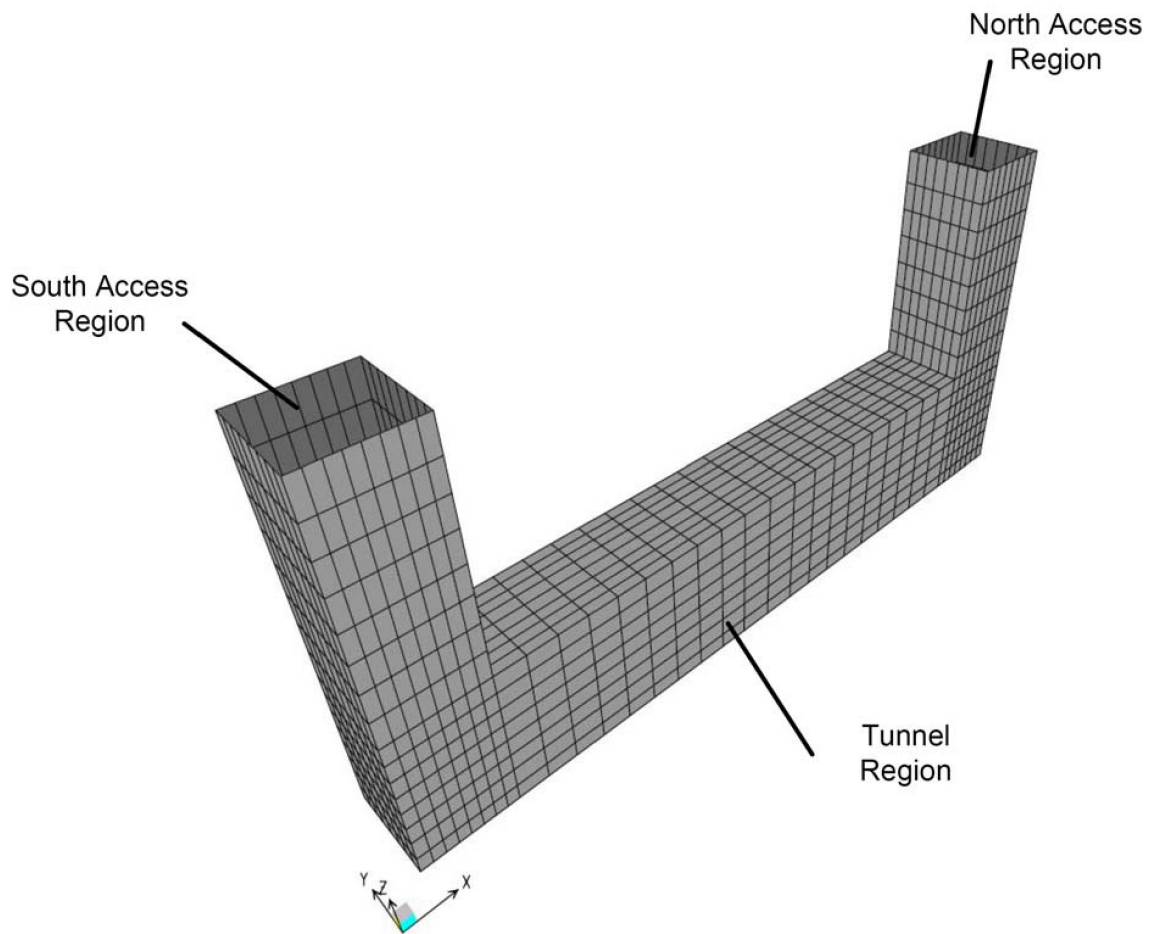


Figure 3H.6-262 UHS Section 2



**Figure 3H.7-1 SAP2000 Finite Element Analysis Model for DGFOT**

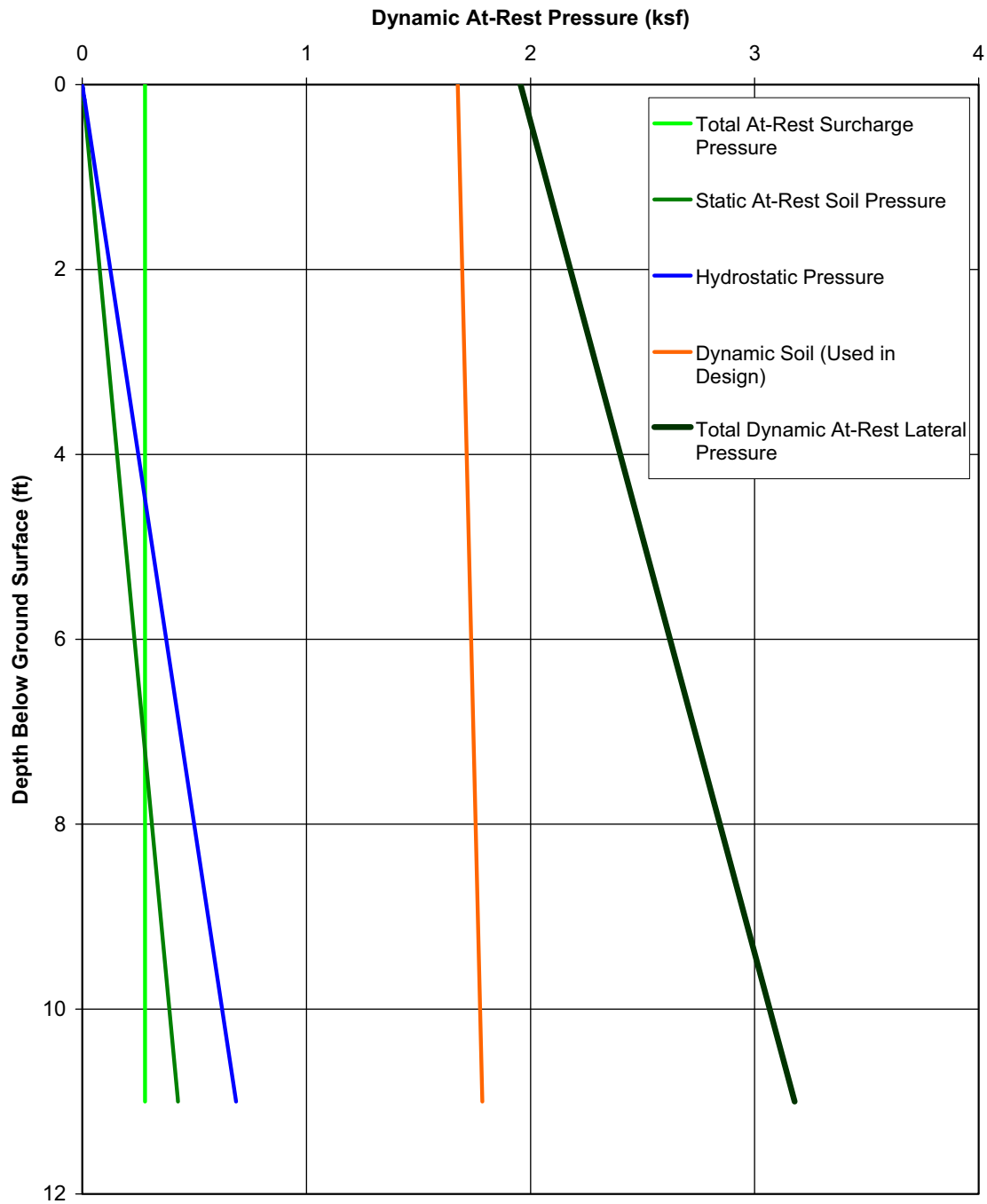


Figure 3H.7-2 Dynamic At-Rest Lateral Earth Pressure (psf) on the Walls of the Fuel Oil Tunnel DGFOT Walls



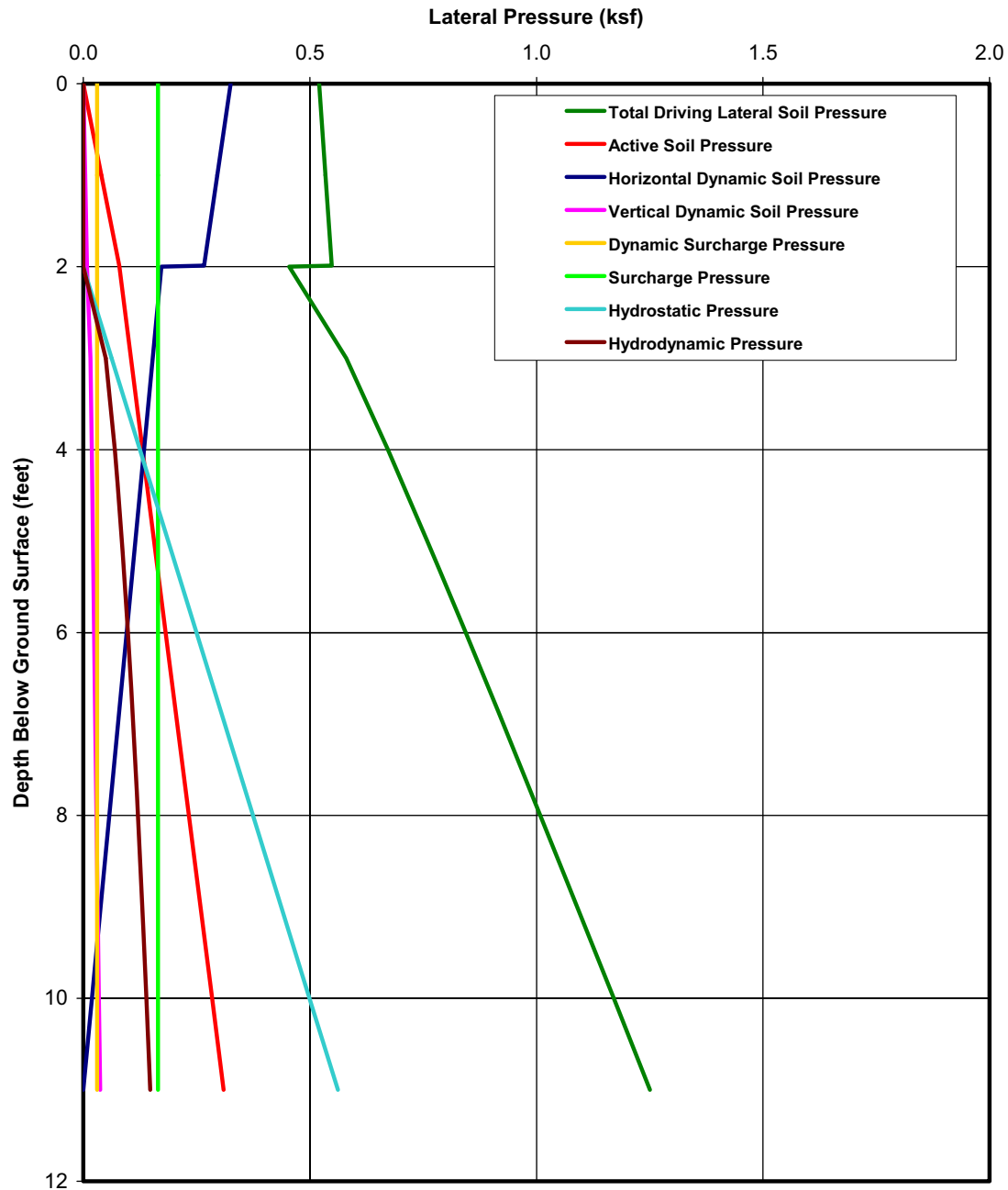


Figure 3H.7-3 Driving Lateral Earth Pressure (ksf) on the Walls of the Fuel Oil Tunnel (for Stability Evaluation)

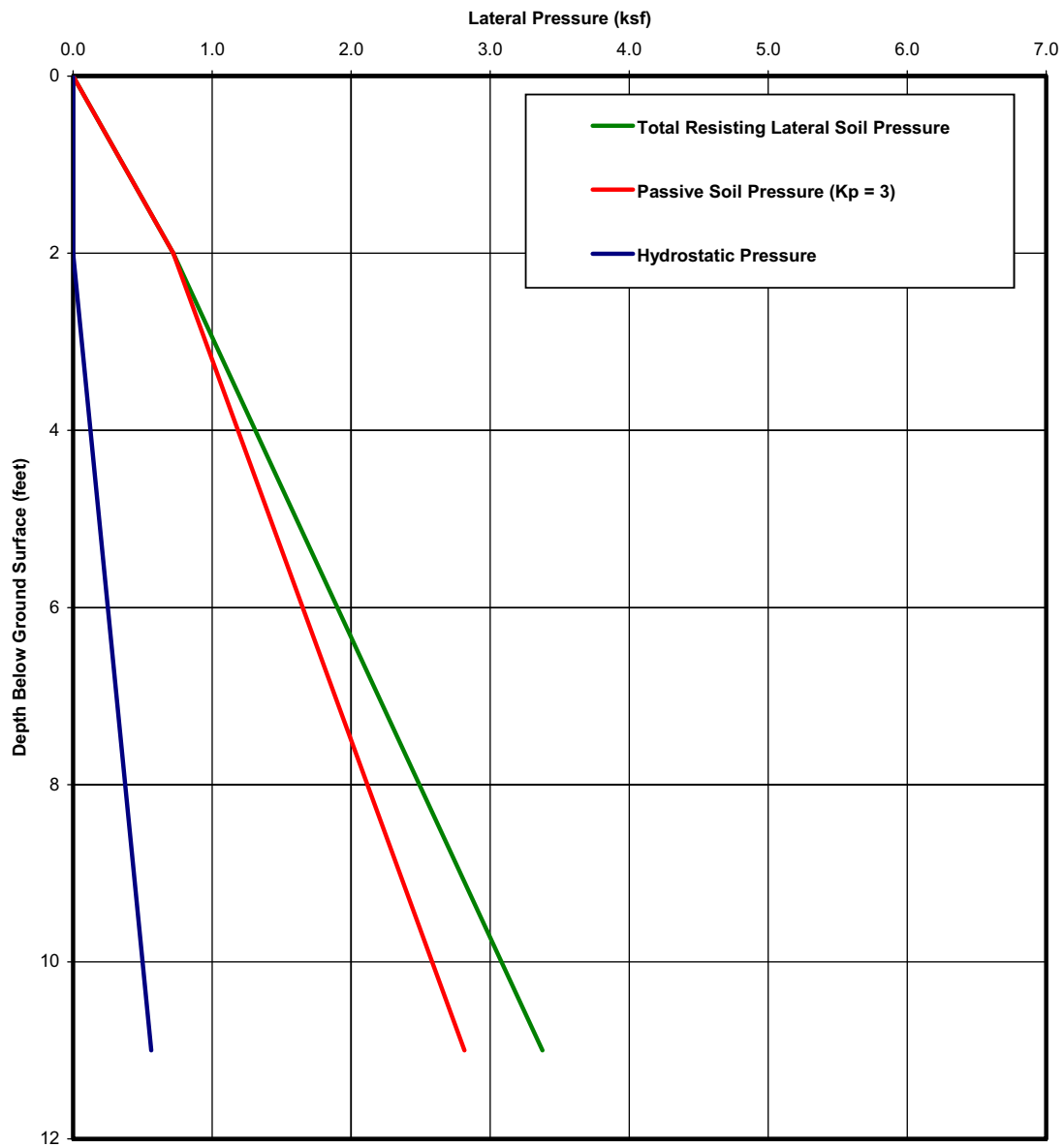
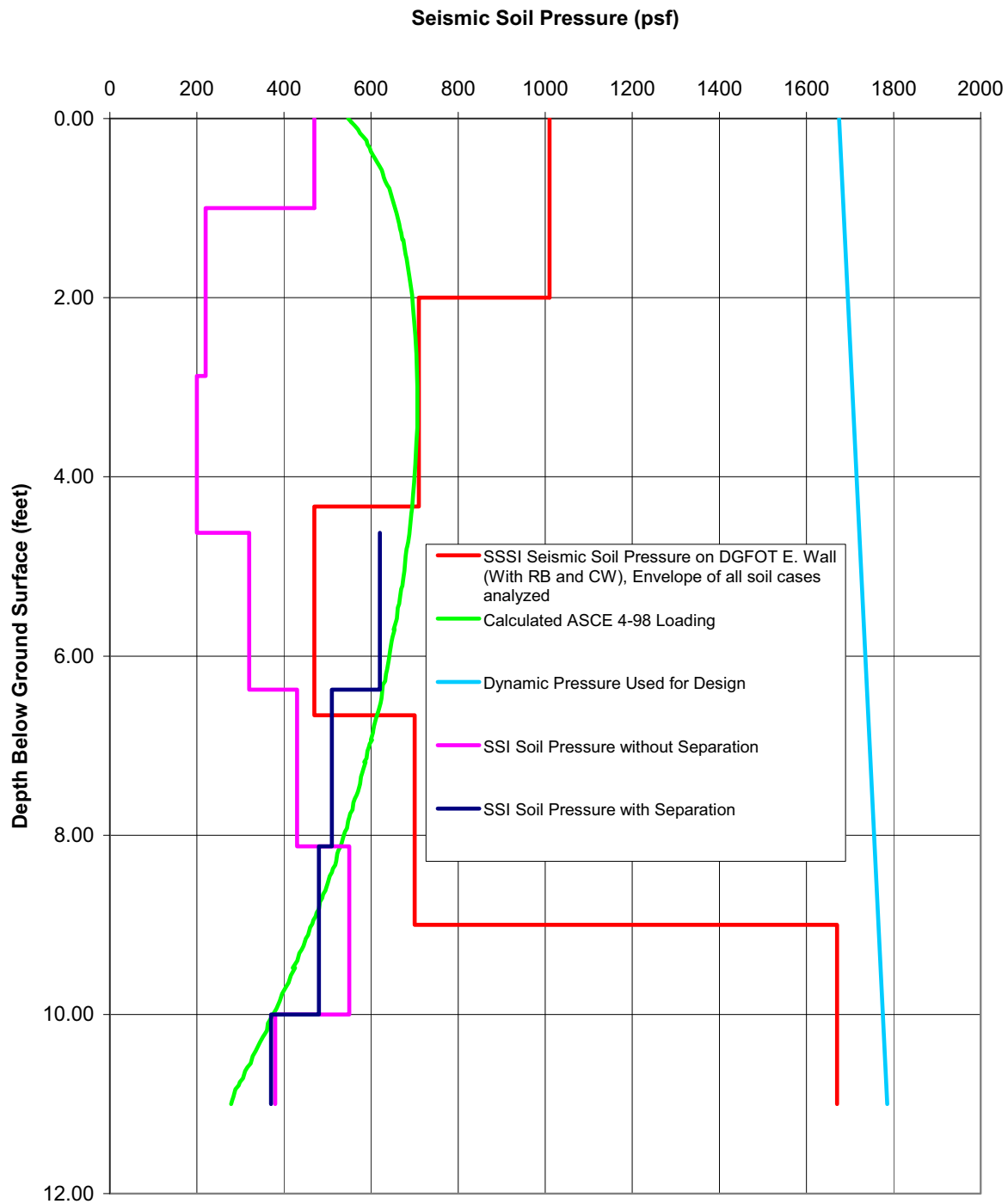
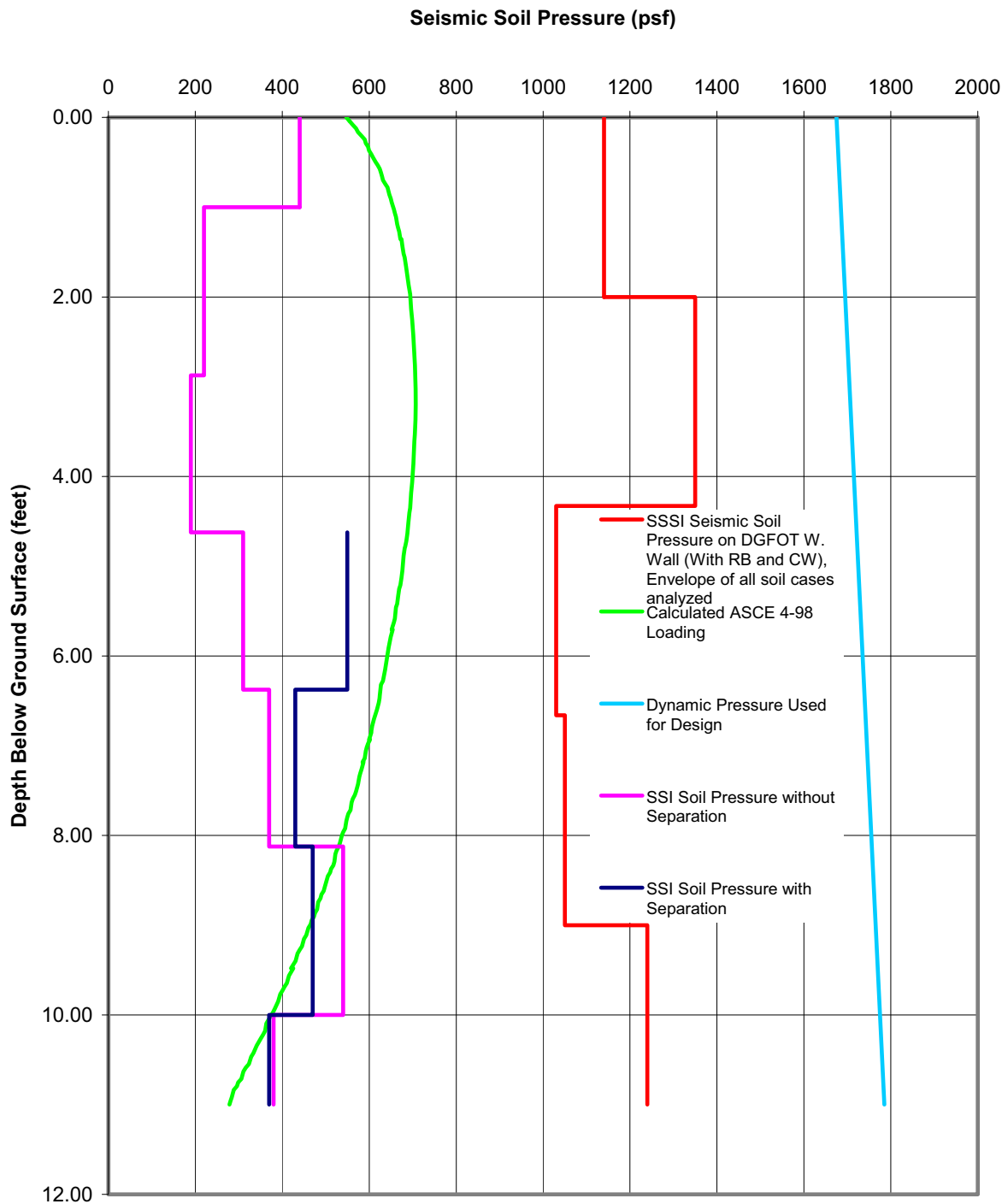


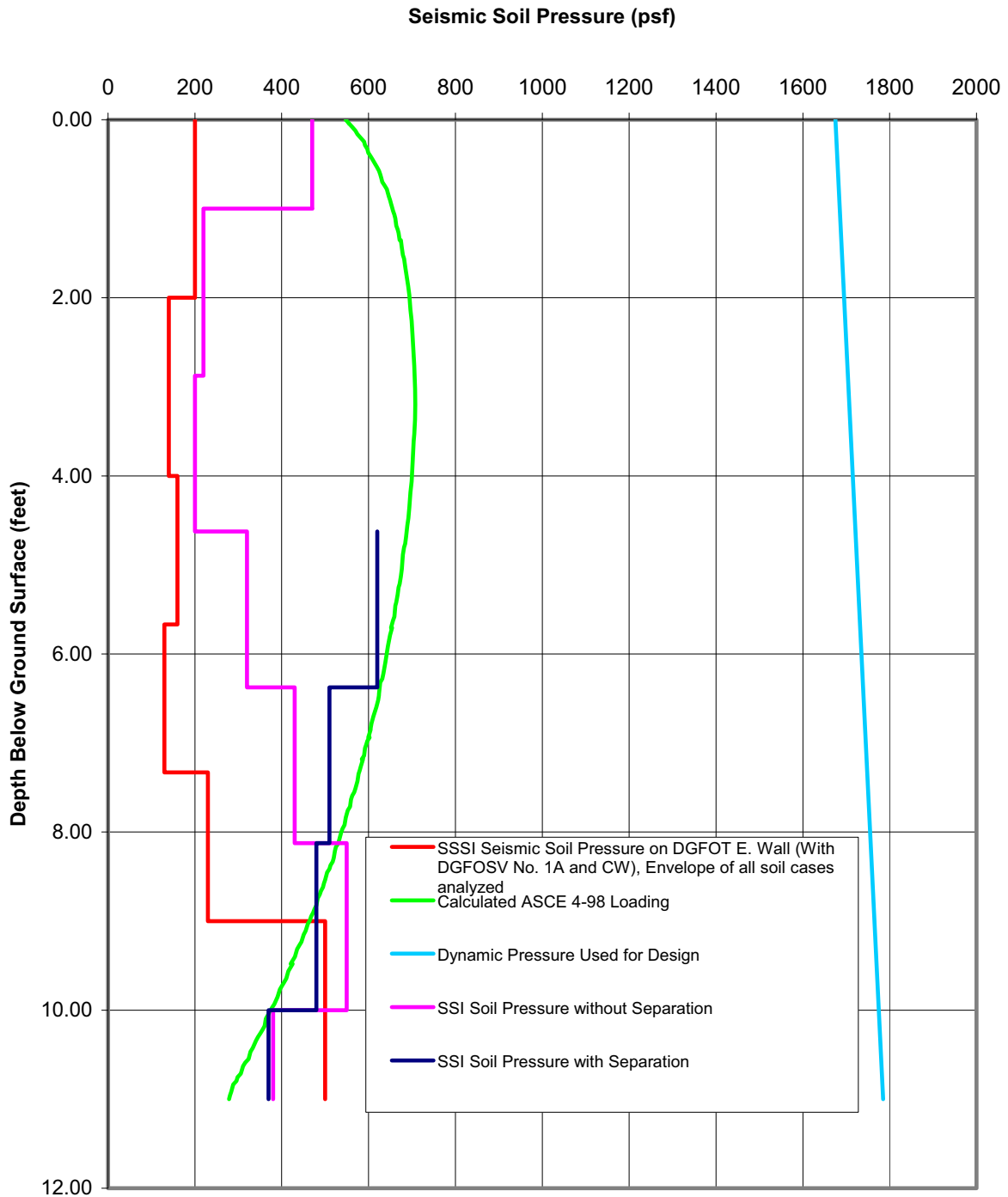
Figure 3H.7-4 Resisting Lateral Earth Pressure (ksf) on the Walls of the Fuel Oil Tunnel (for Stability Evaluation)



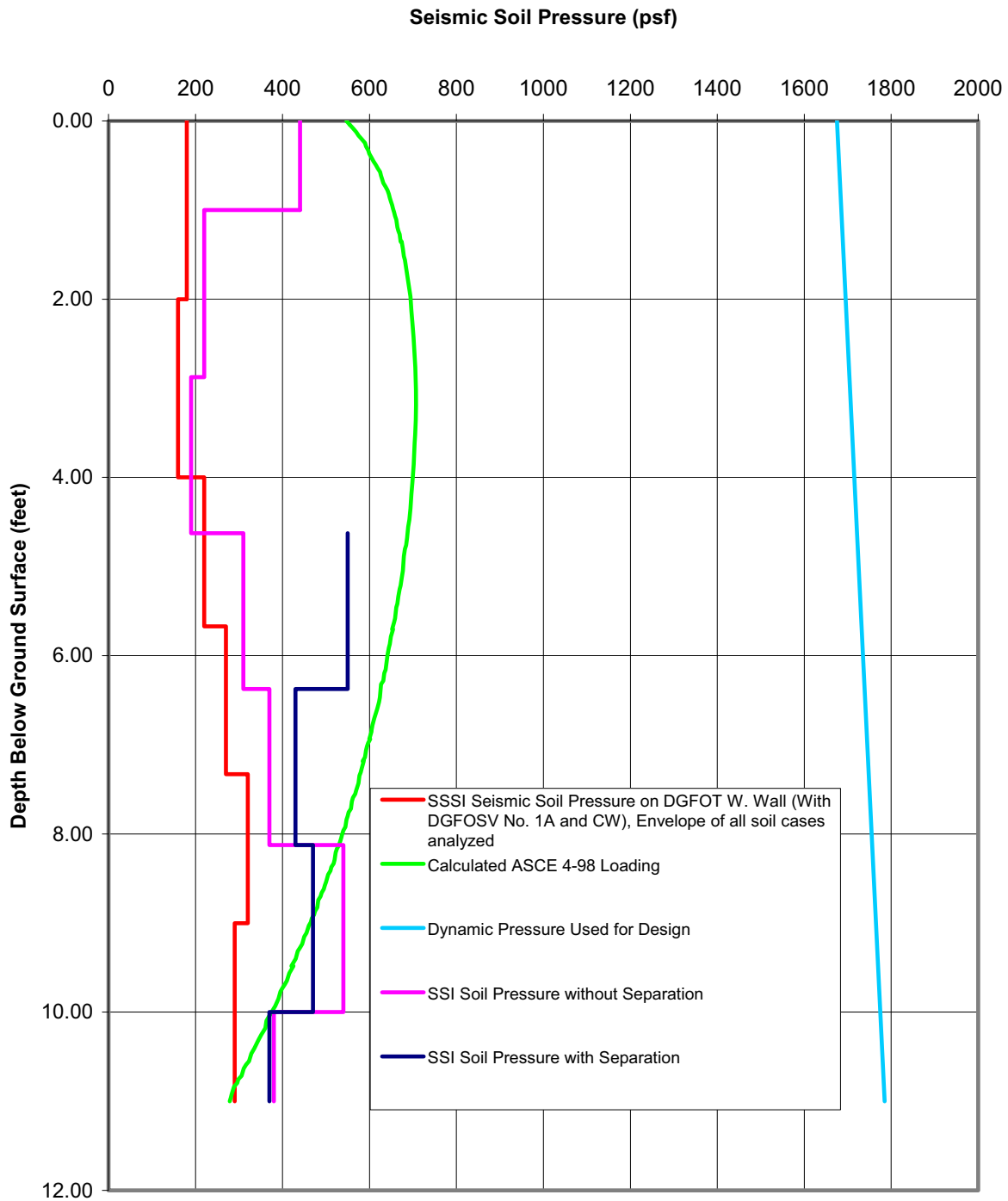
**Figure 3H.7-5 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures (psf) on Fuel Oil Tunnel East Wall with Reactor Building and Crane Wall**



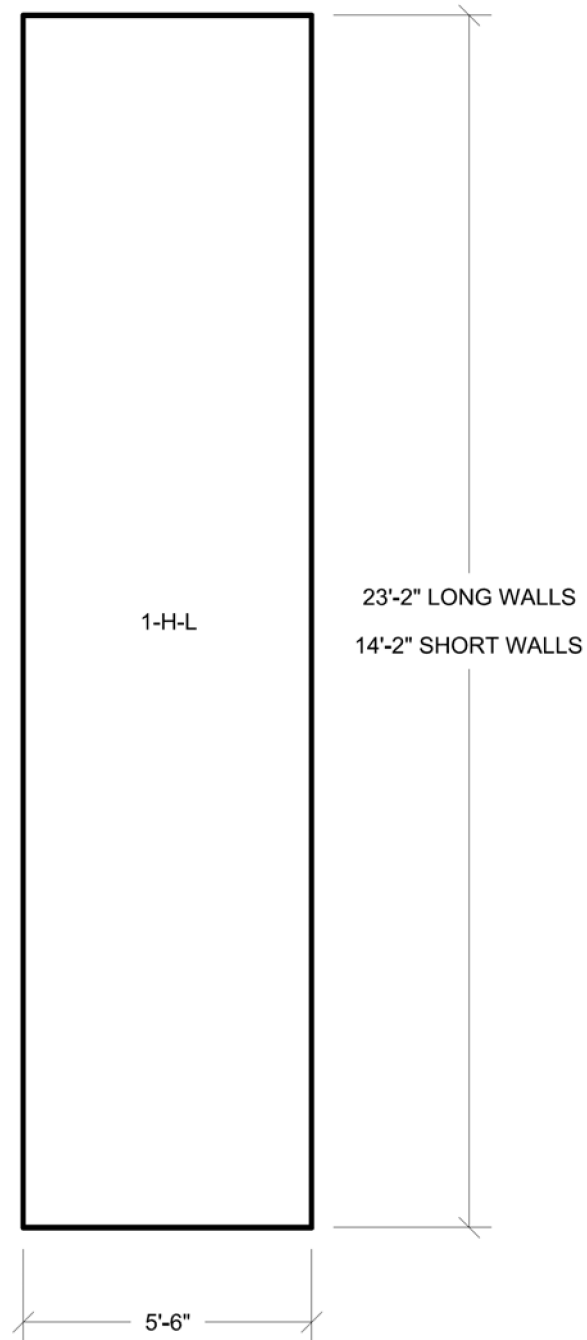
**Figure 3H.7-6 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures (psf) on Fuel Oil Tunnel West Wall with Reactor Building and Crane Wall**



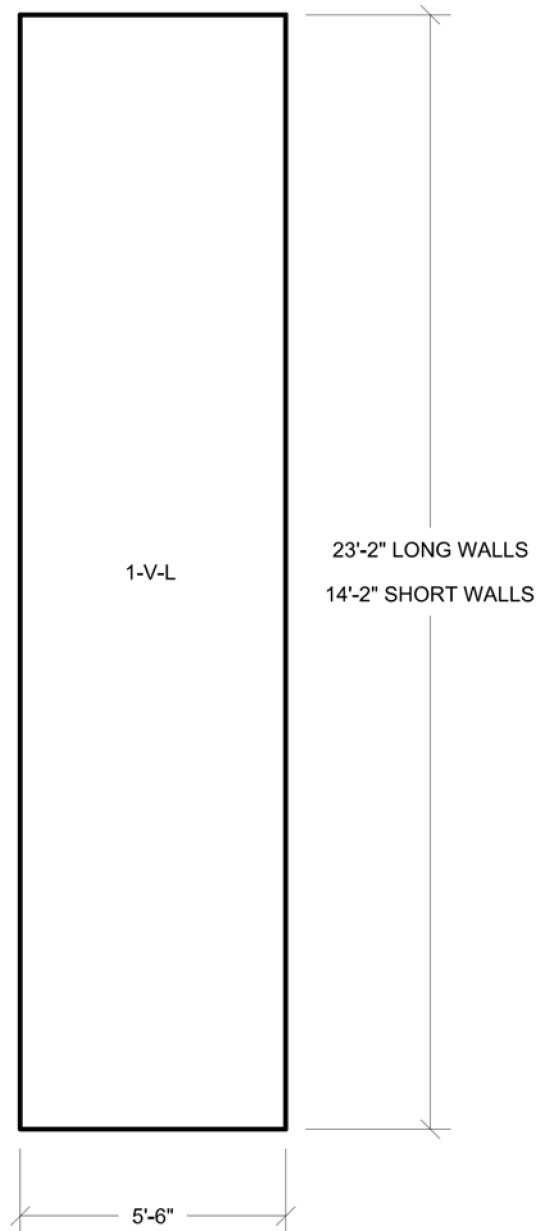
**Figure 3H.7-7 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures (psf) on Fuel Oil Tunnel East Wall with Diesel Generator Fuel Oil Storage Vault and Crane Wall**



**Figure 3H.7-8 SSI, SSSI, ASCE 4-98 and Design Lateral Seismic Soil Pressures (psf) on Fuel Oil Tunnel West Wall with Diesel Generator Fuel Oil Storage Vault and Crane Wall**

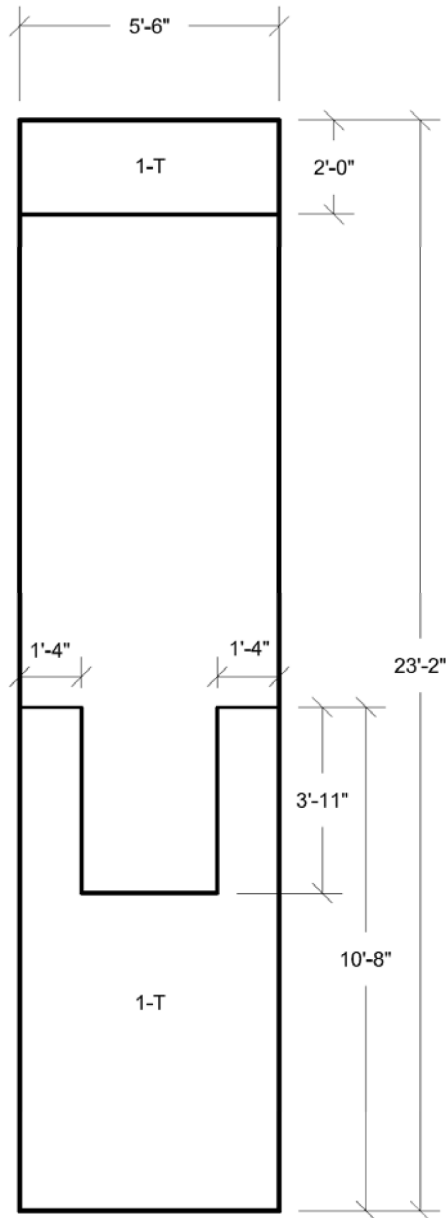


**Figure 3H.7-9 Access Region Walls Looking From Outside Horizontal Reinforcement Zones Near Side and Far Side Faces**

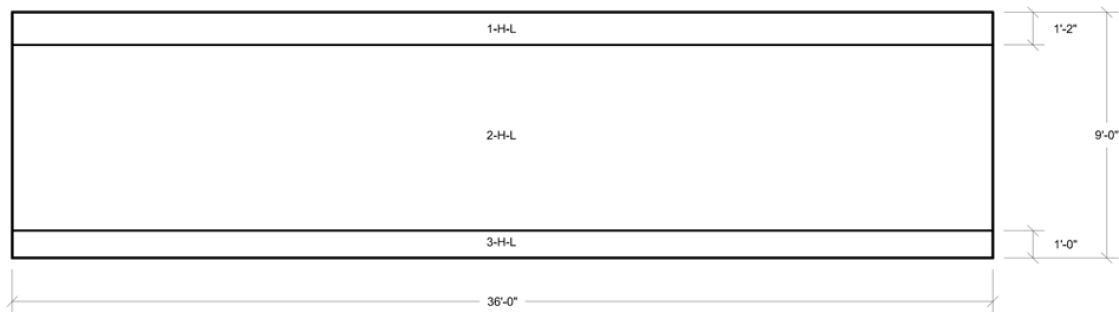


**Figure 3H.7-10 Access Region Walls Looking From Outside Vertical Reinforcement Zones Near Side and Far Side Faces**

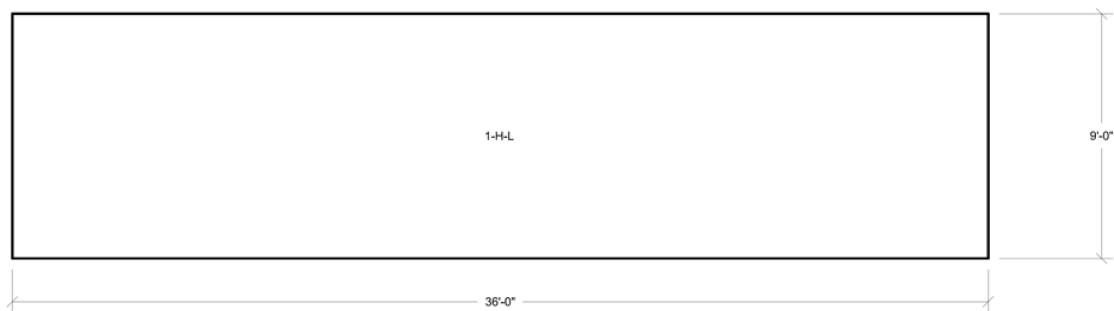




**Figure 3H.7-10A Access Region Walls Looking From Outside  
Transverse Reinforcement Zones**



**Figure 3H.7-11 Tunnel Walls Looking From Outside Horizontal Reinforcement Zones Near Side Face**



**Figure 3H.7-12 Tunnel Walls Looking From Outside Horizontal Reinforcement Zones Far Side Face**



**Figure 3H.7-13 Tunnel Walls Looking From Outside Vertical Reinforcement Zones  
Near Side Face**



**Figure 3H.7-14 Tunnel Walls Looking From Outside Vertical Reinforcement Zones  
Far Side Face**

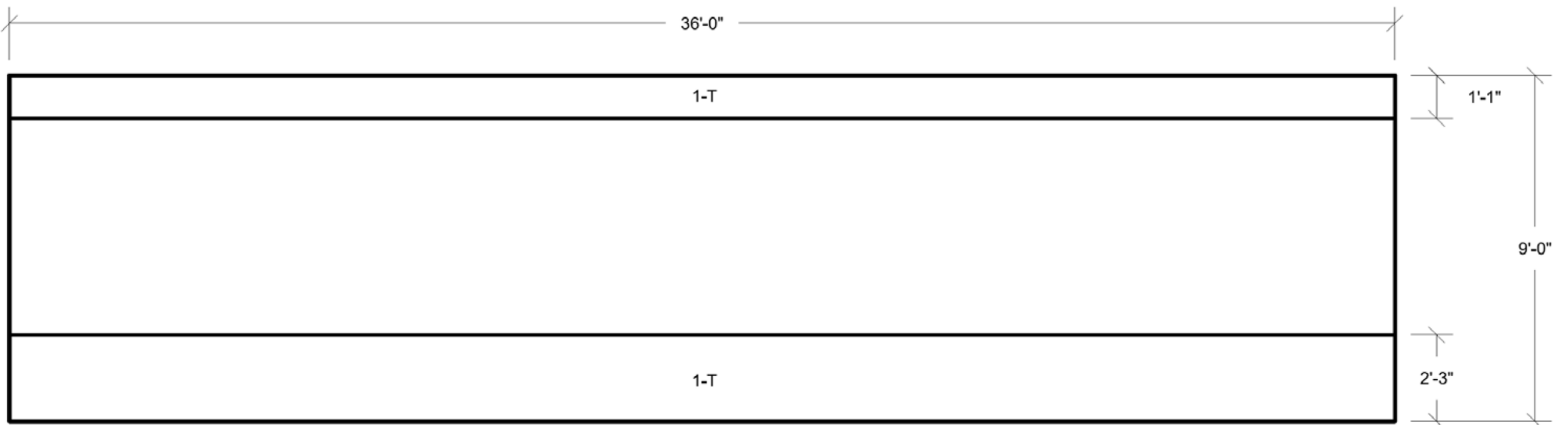
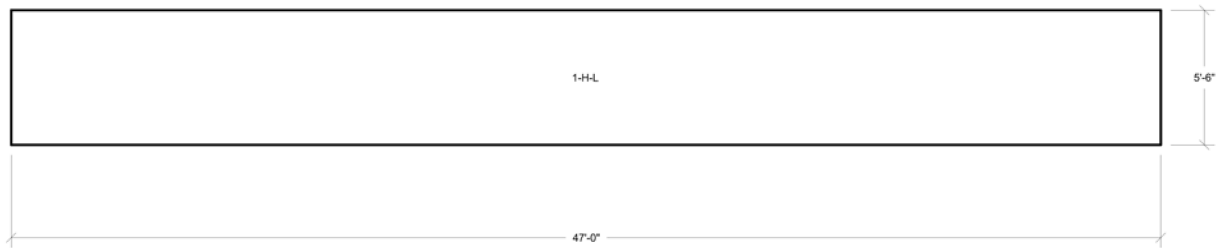
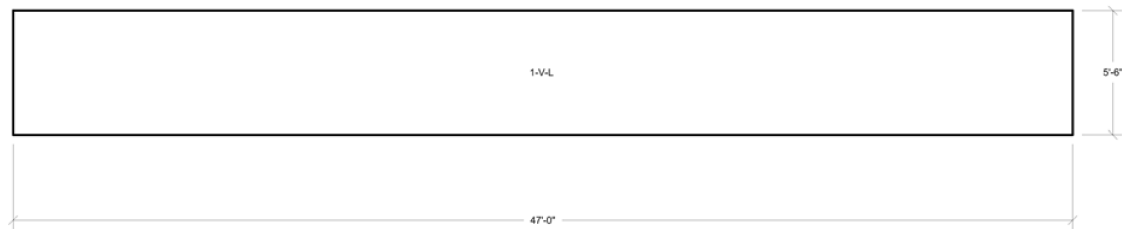


Figure 3H.7-14A Tunnel Walls Looking From Outside Transverse Reinforcement Zones



**Figure 3H.7-15 Tunnel and Access Region Basemat Looking Down Horizontal Reinforcement Zones Near Side and Far Side Faces**



**Figure 3H.7-16 Tunnel and Access Region Basemat Looking Down Vertical Reinforcement Zones Near Side and Far Side Faces**



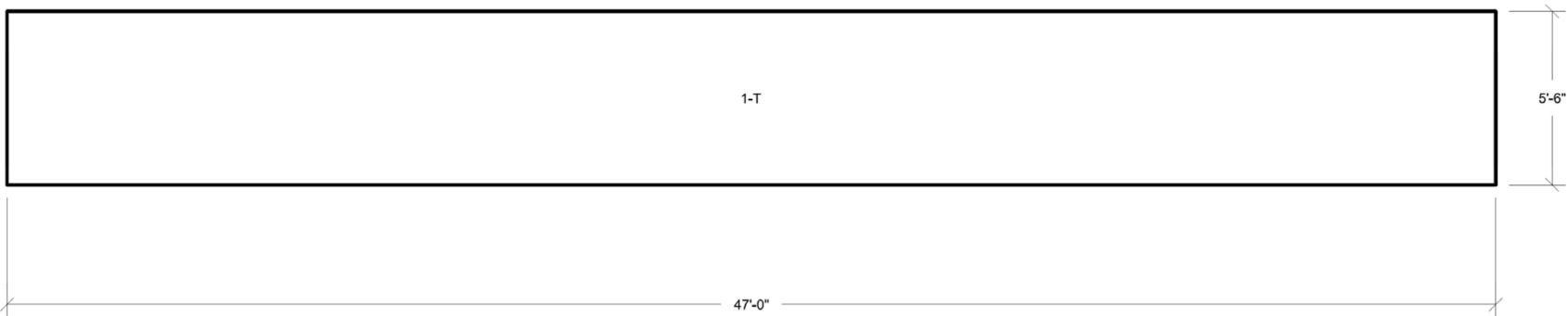
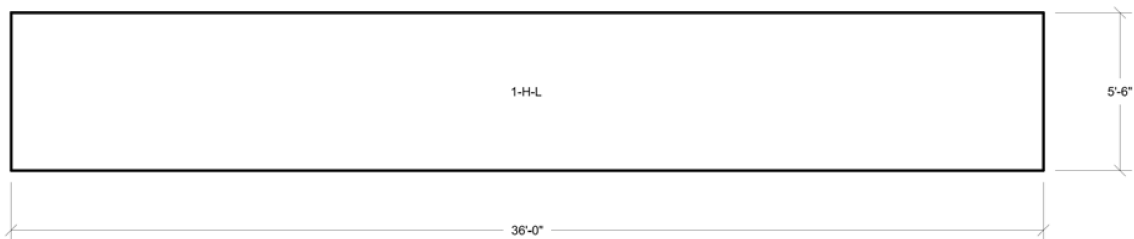
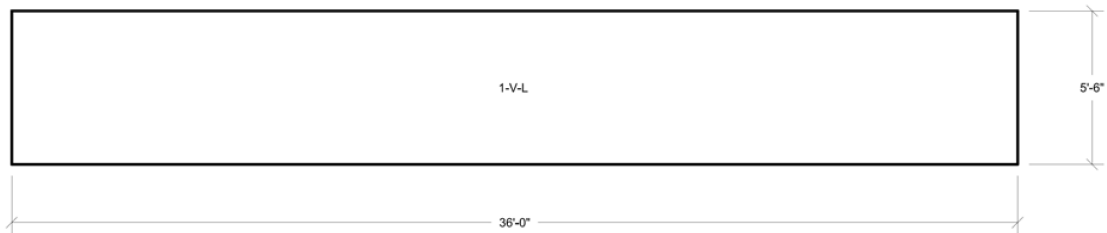


Figure 3H.7-17 Tunnel and Access Region Basemat Looking Down Transverse Reinforcement Zones



**Figure 3H.7-18 Roof of Tunnel Looking Down Horizontal Reinforcement Zones  
Near Side and Far Side Faces**



**Figure 3H.7-19 Roof of Tunnel Looking Down Vertical Reinforcement Zones  
Near Side and Far Side Faces**

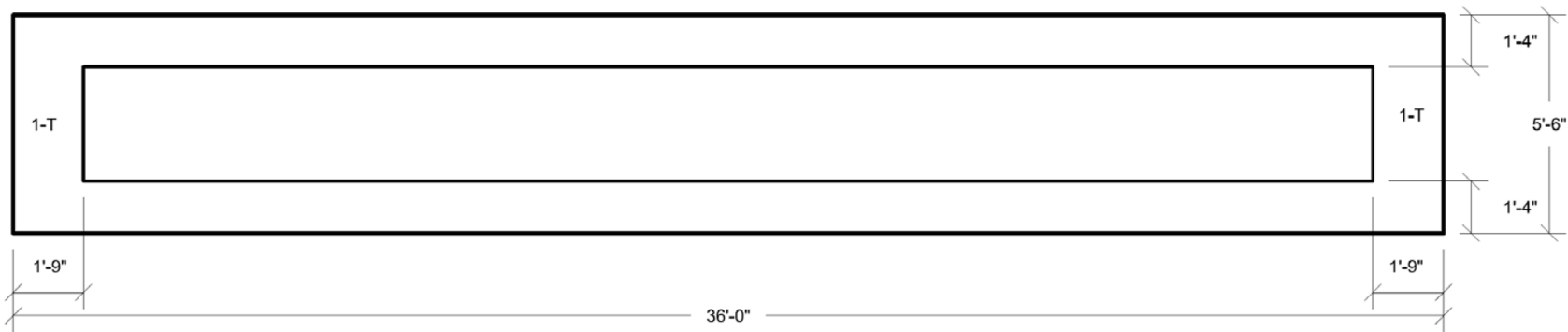


Figure 3H.7-19A Roof of Tunnel Looking Down Transverse Reinforcement Zones

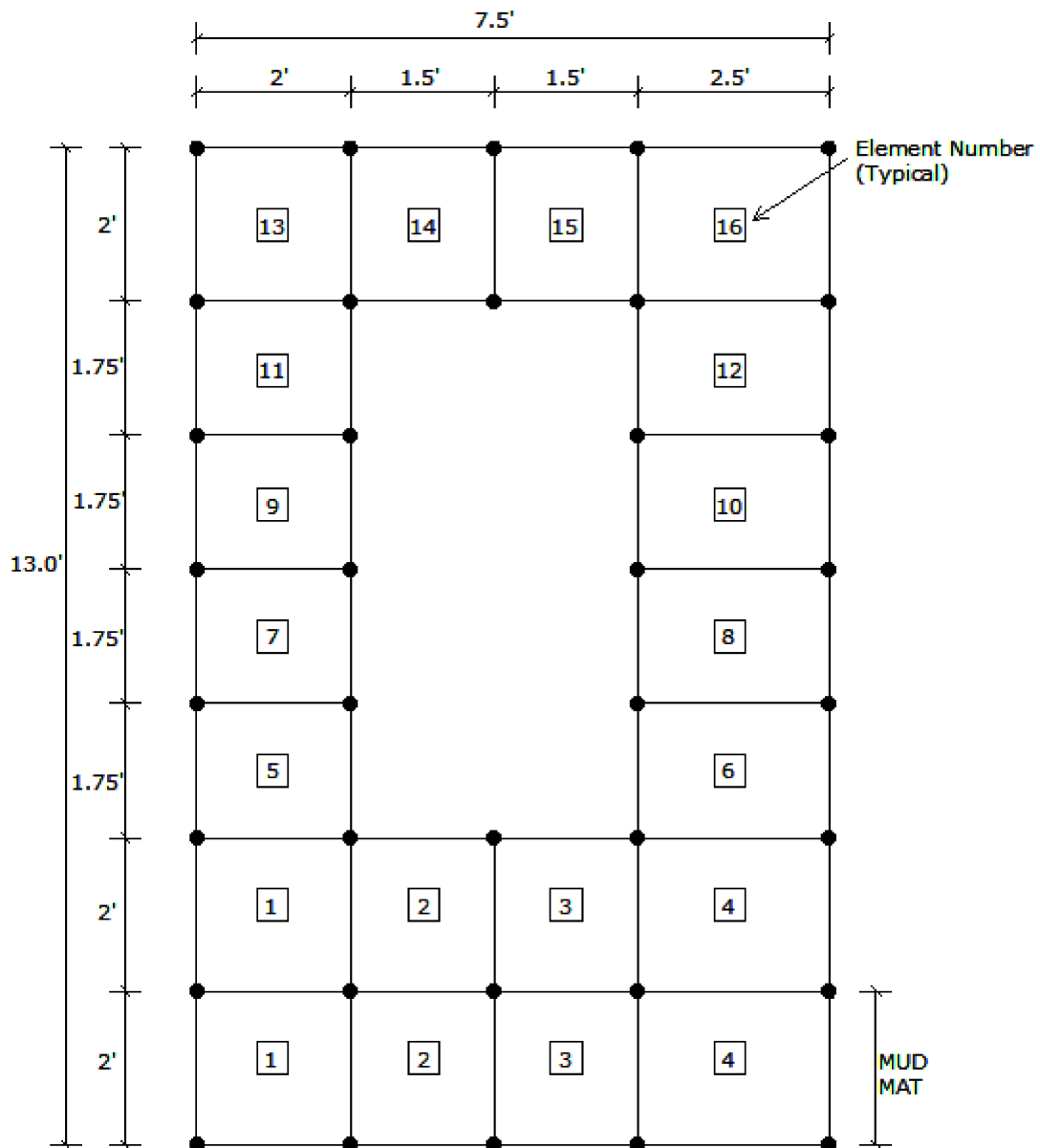
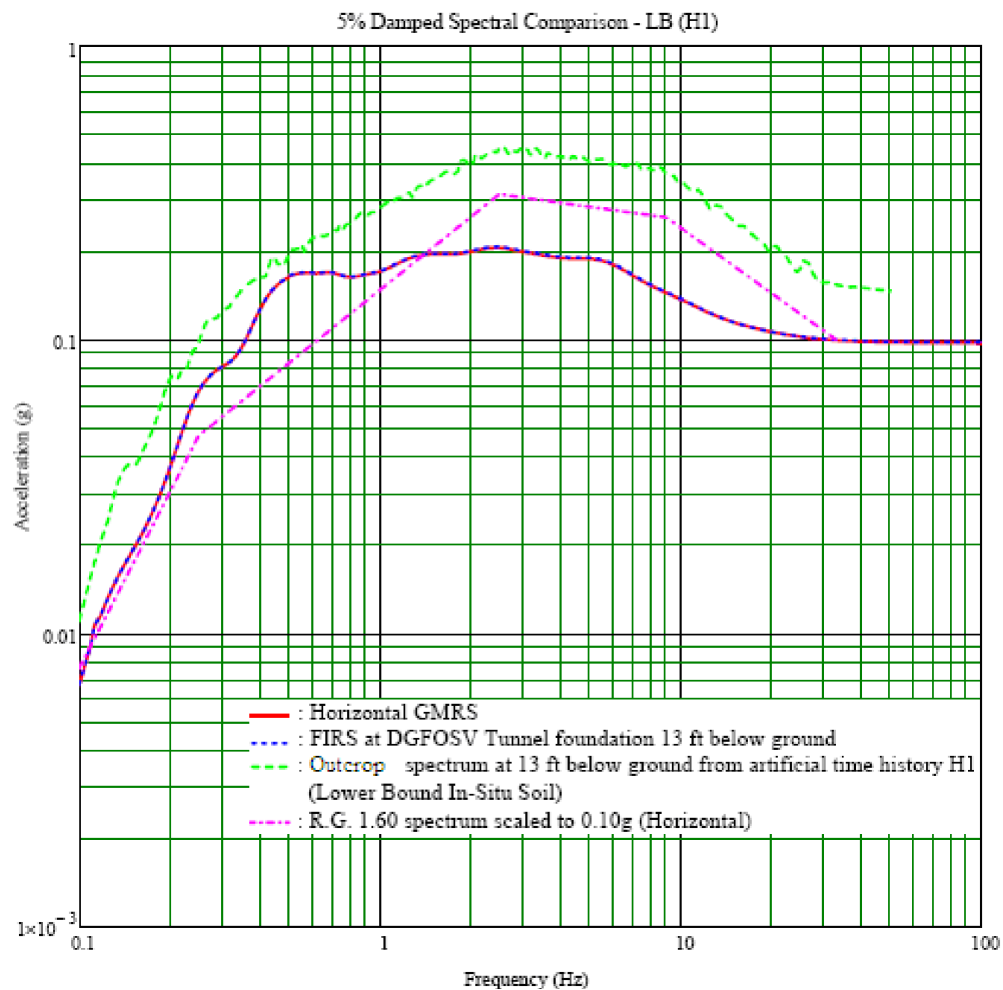
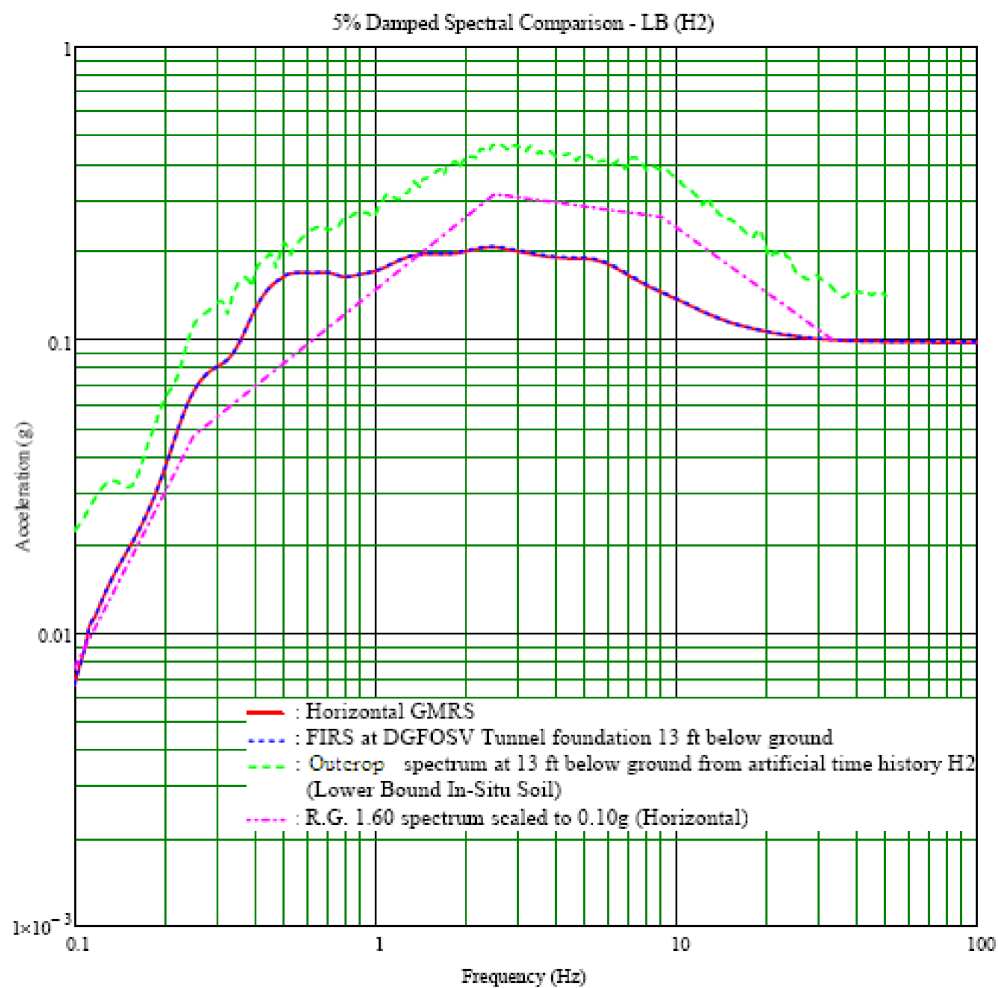


Figure 3H.7-20 2D Model for SSI Analysis of a Typical Cross section of DGFOT



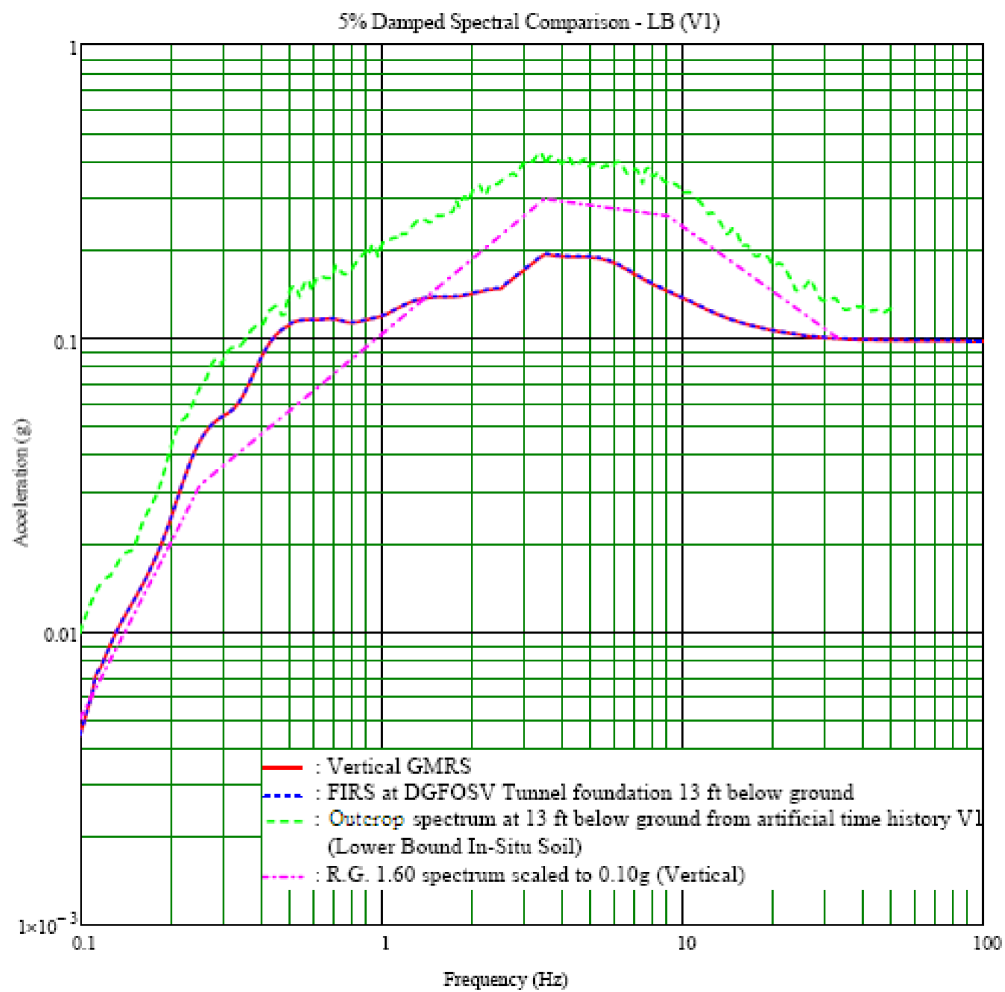


**Figure 3H.7-22 Comparison of Spectra at Foundation of DGFOT – Lower Bound Soil Properties, Horizontal X Direction**



**Figure 3H.7-23 Comparison of Spectra at Foundation of DGFOT – Lower Bound Soil Properties, Horizontal Y Direction**





**Figure 3H.7-24 Comparison of Spectra at Foundation of DGFOT – Lower Bound Soil Properties, Vertical Direction**

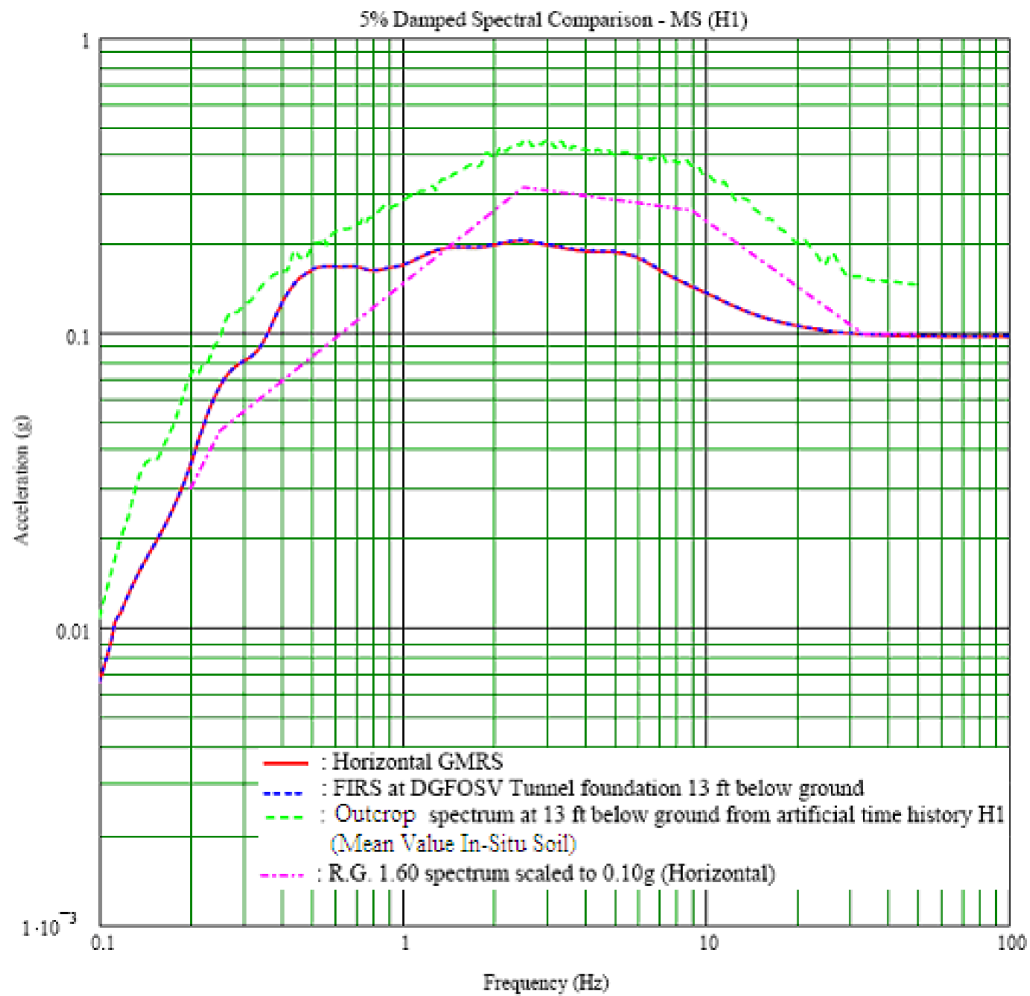


Figure 3H.7-25 Comparison of Spectra at Foundation of DGFOT – Mean Soil Properties, Horizontal X Direction

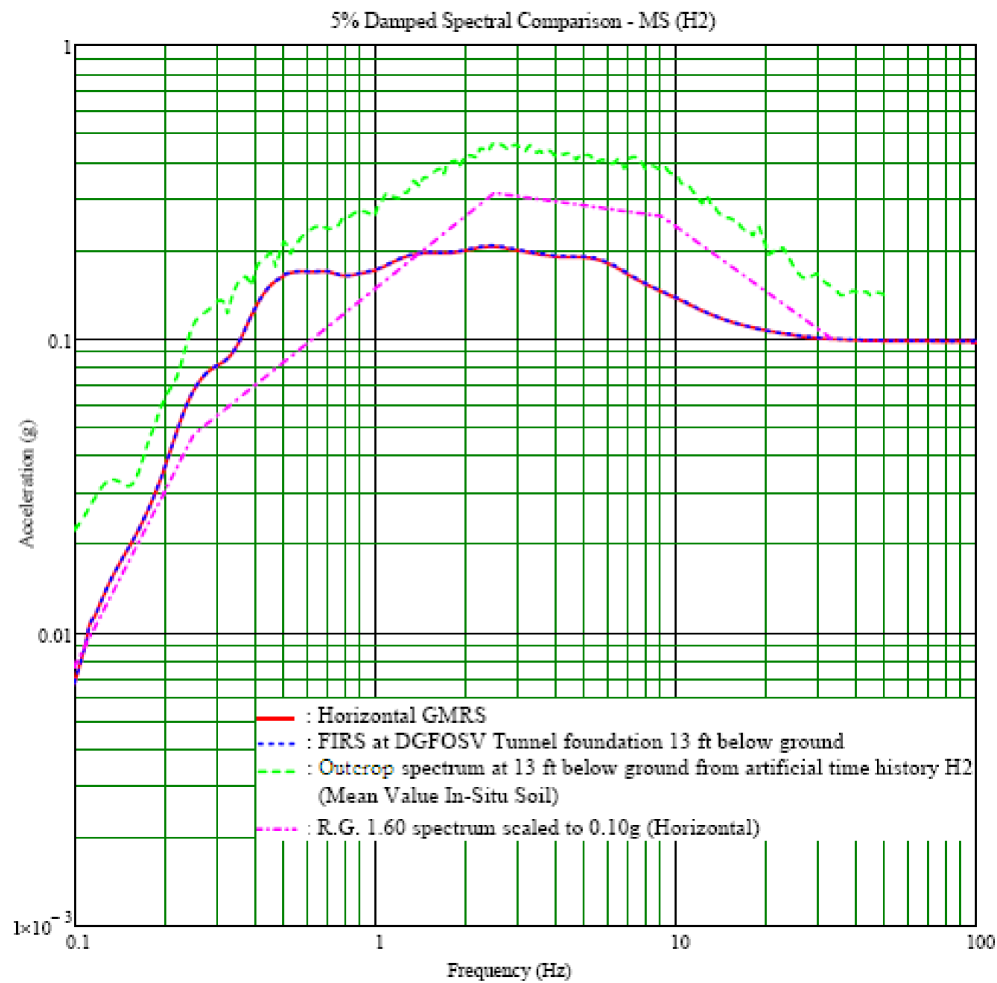
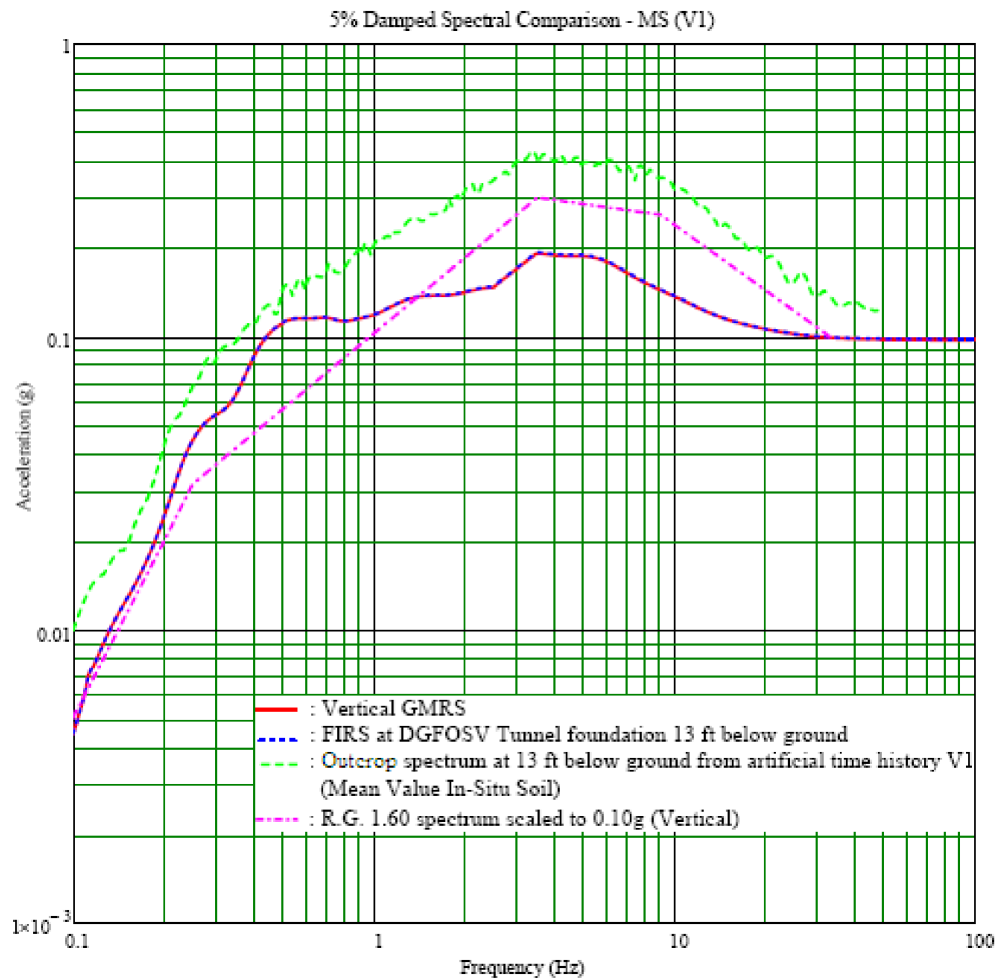


Figure 3H.7-26 Comparison of Spectra at Foundation of DGFOT – Mean Soil Properties, Horizontal Y Direction



**Figure 3H.7-27 Comparison of Spectra at Foundation of DGFOT – Mean Soil Properties, Vertical Direction**

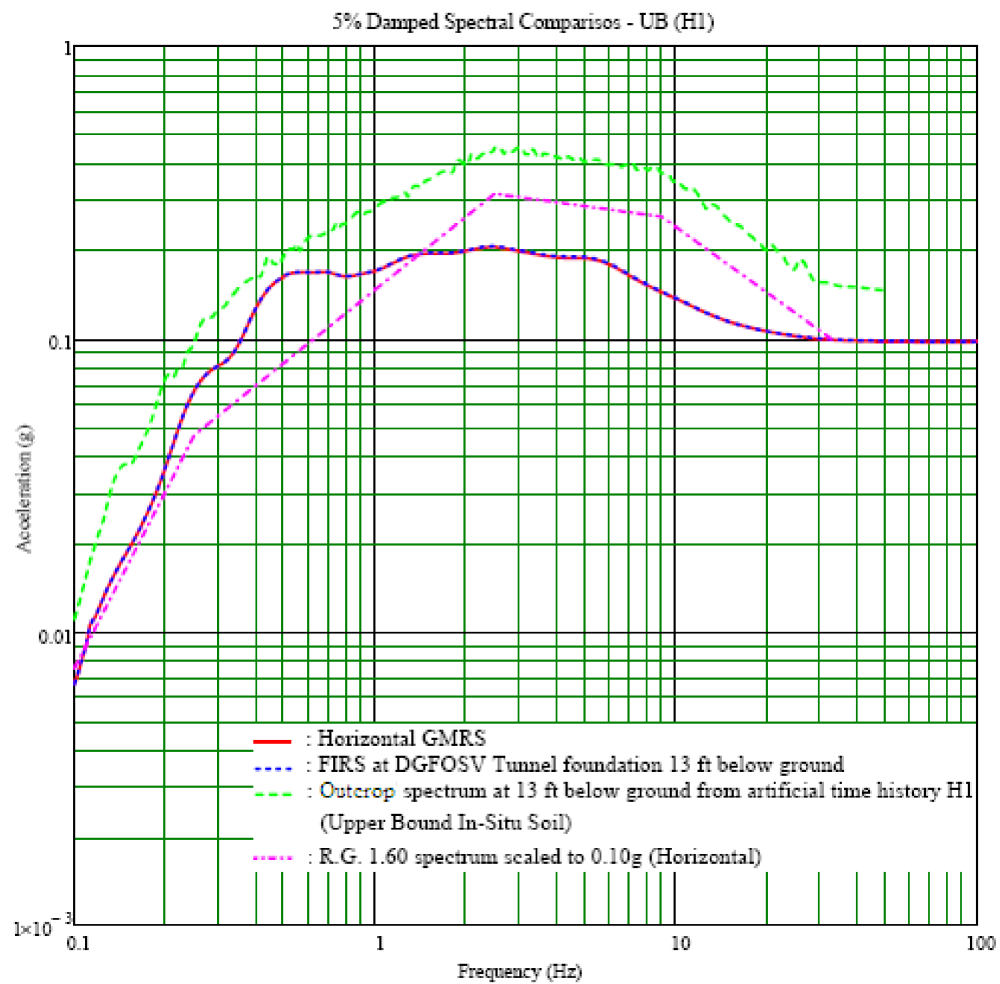
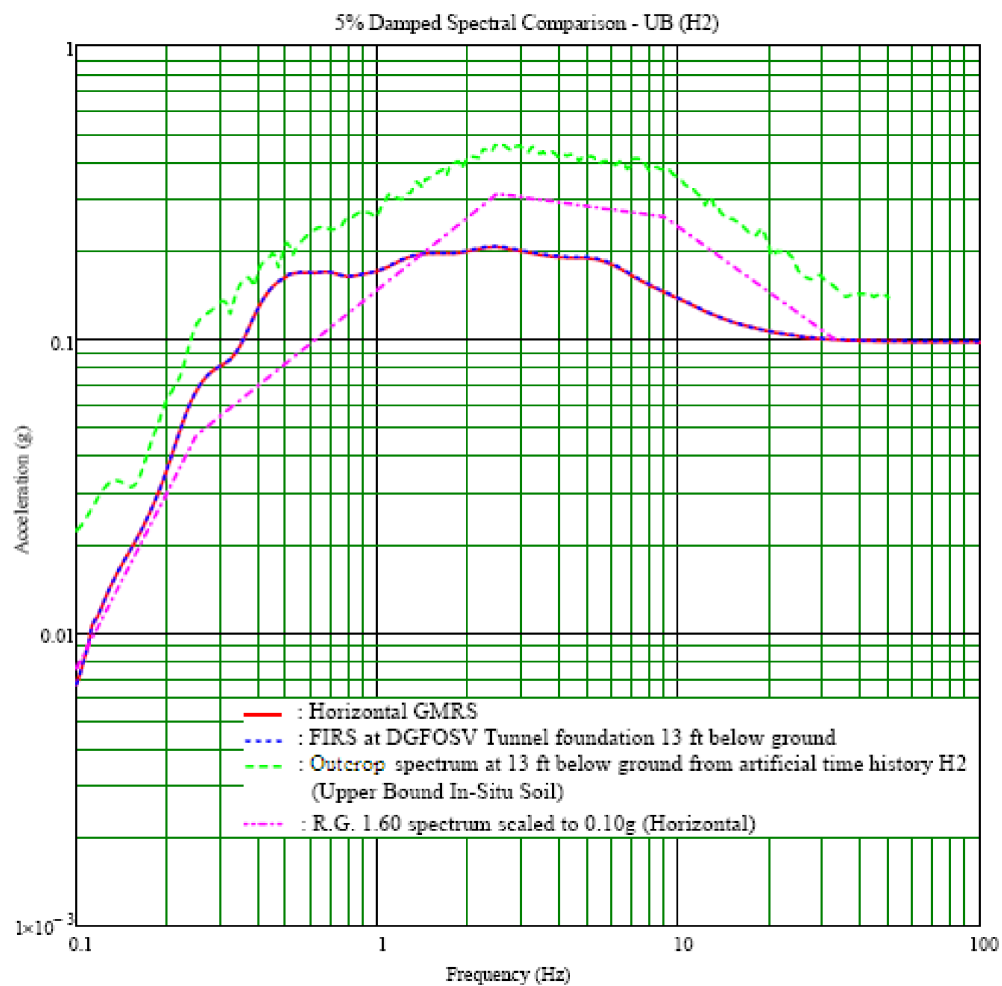


Figure 3H.7-28 Comparison of Spectra at Foundation of DGFOT – Upper Bound Soil Properties, Horizontal X Direction



**Figure 3H.7-29 Comparison of Spectra at Foundation of DGFOT – Upper Bound Soil Properties, Horizontal Y Direction**

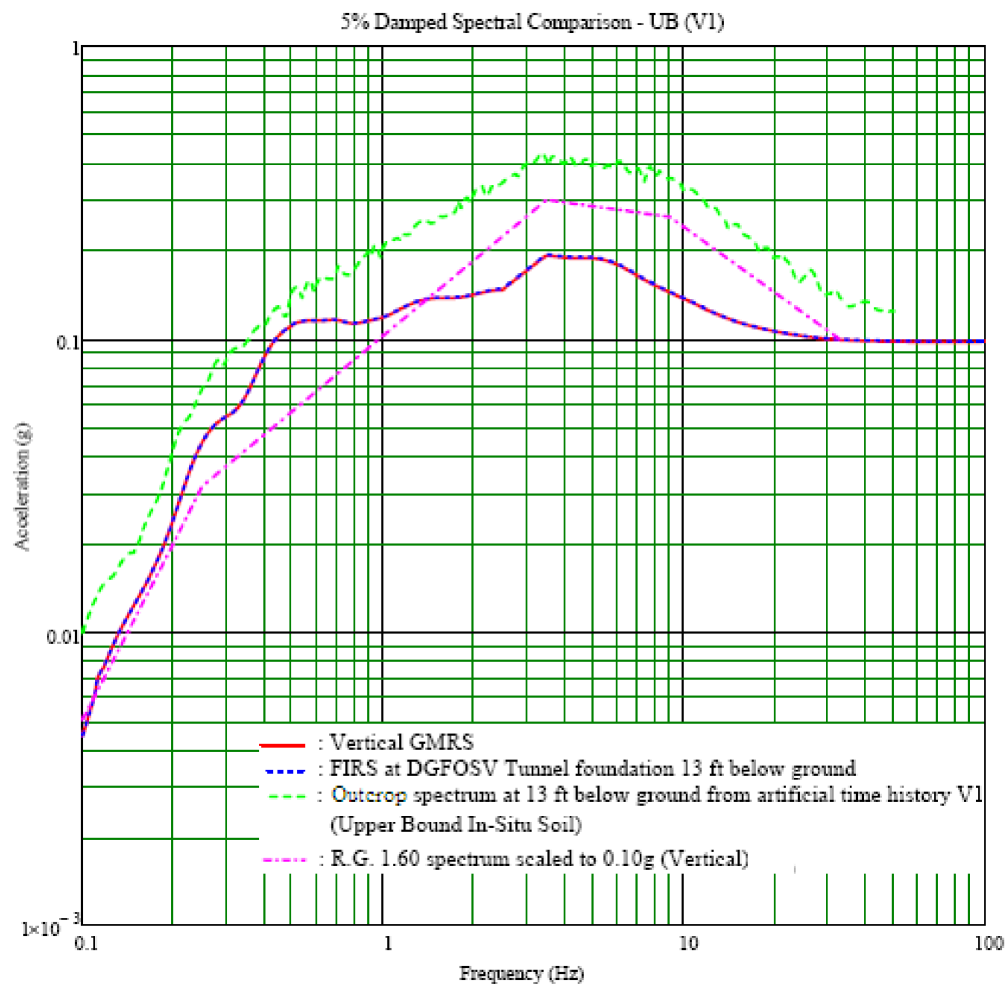
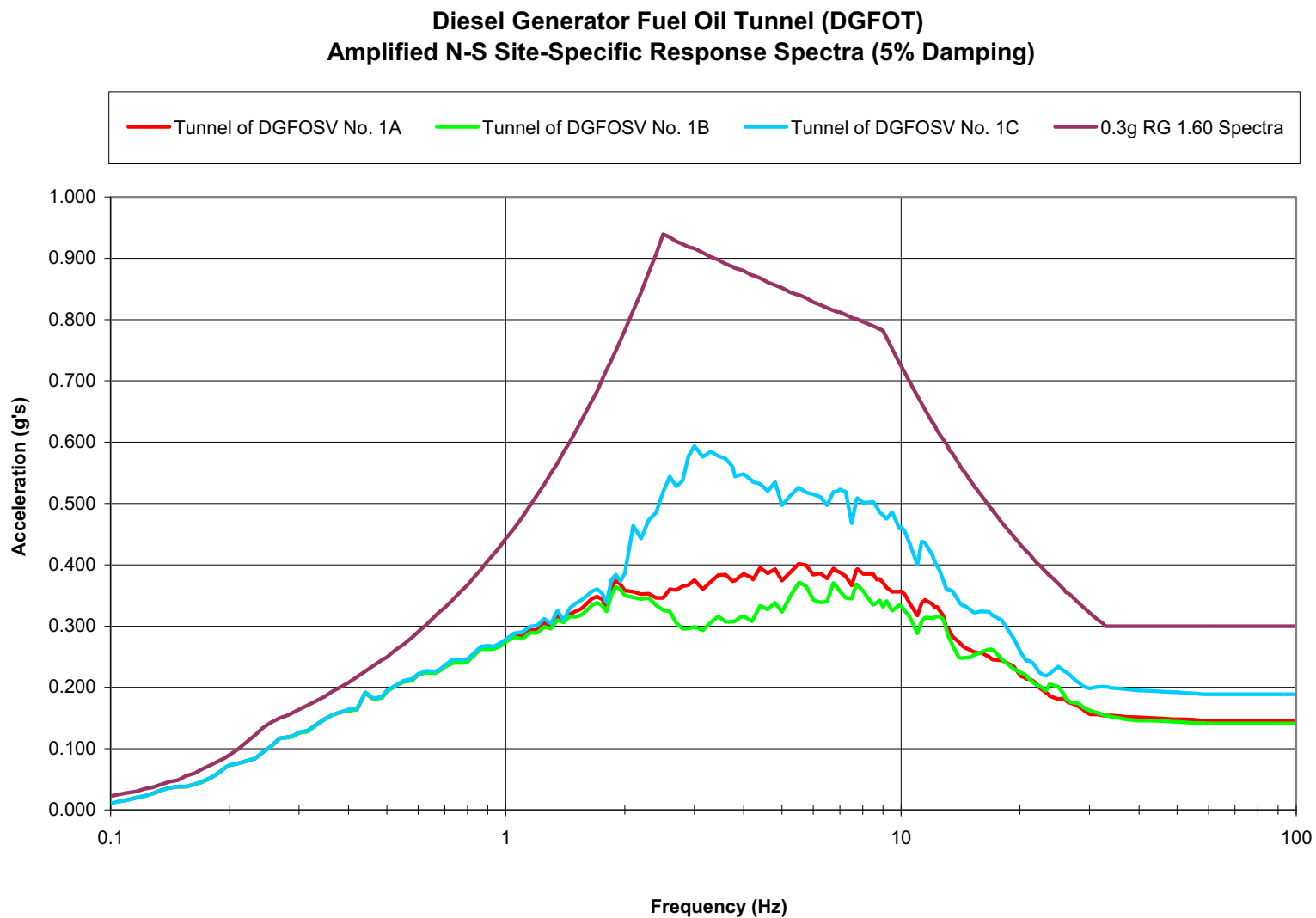


Figure 3H.7-30 Comparison of Spectra at Foundation of DGFOT – Upper Bound Soil Properties, Vertical Direction



**Figure 3H.7-30a Amplified N-S Site-Specific Response Spectra**  
**Diesel Generator Fuel Oil Tunnel (DGFOT)**



### Diesel Generator Fuel Oil Tunnel (DGFOT) Amplified E-W Site-Specific Response Spectra (5% Damping)

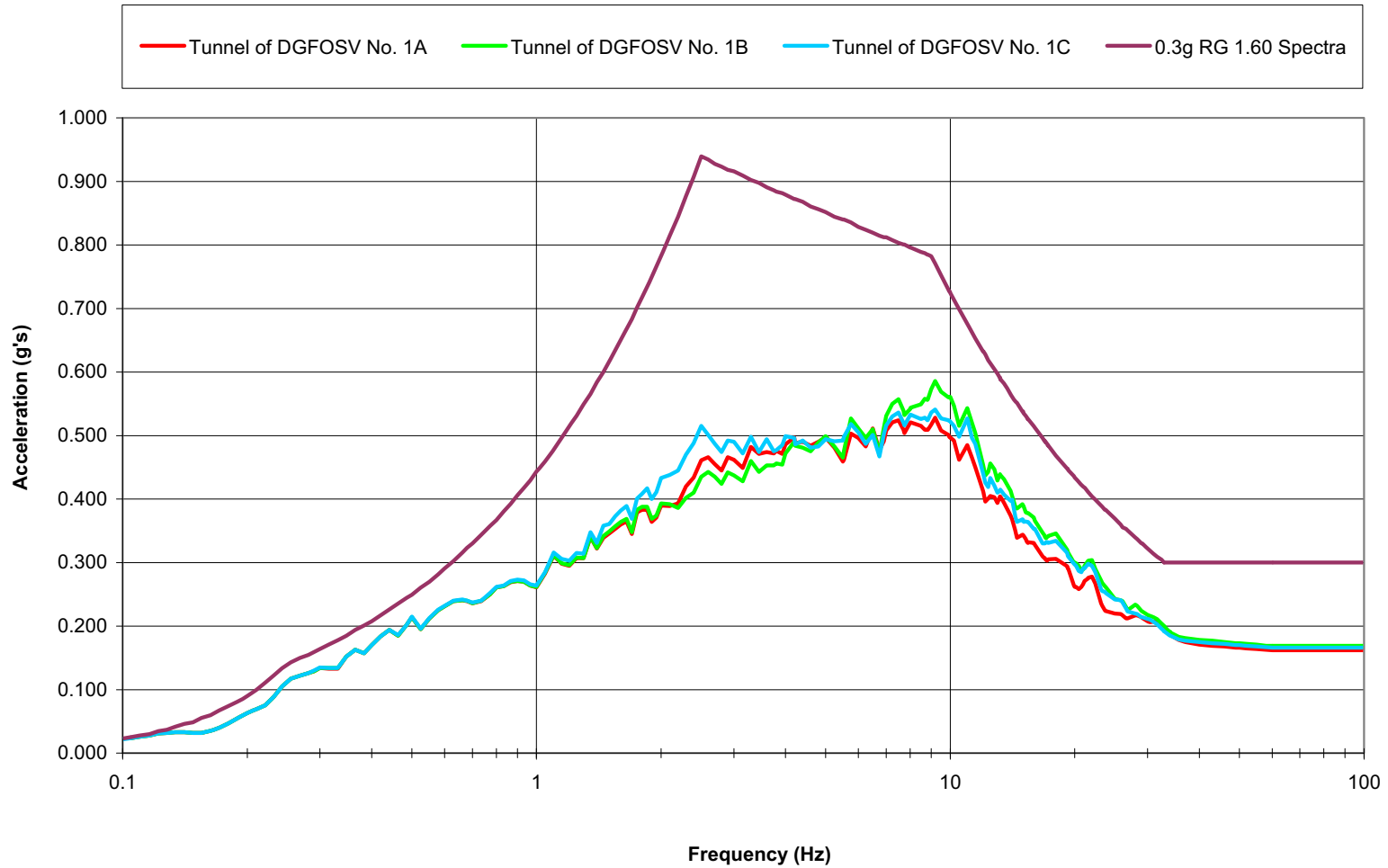
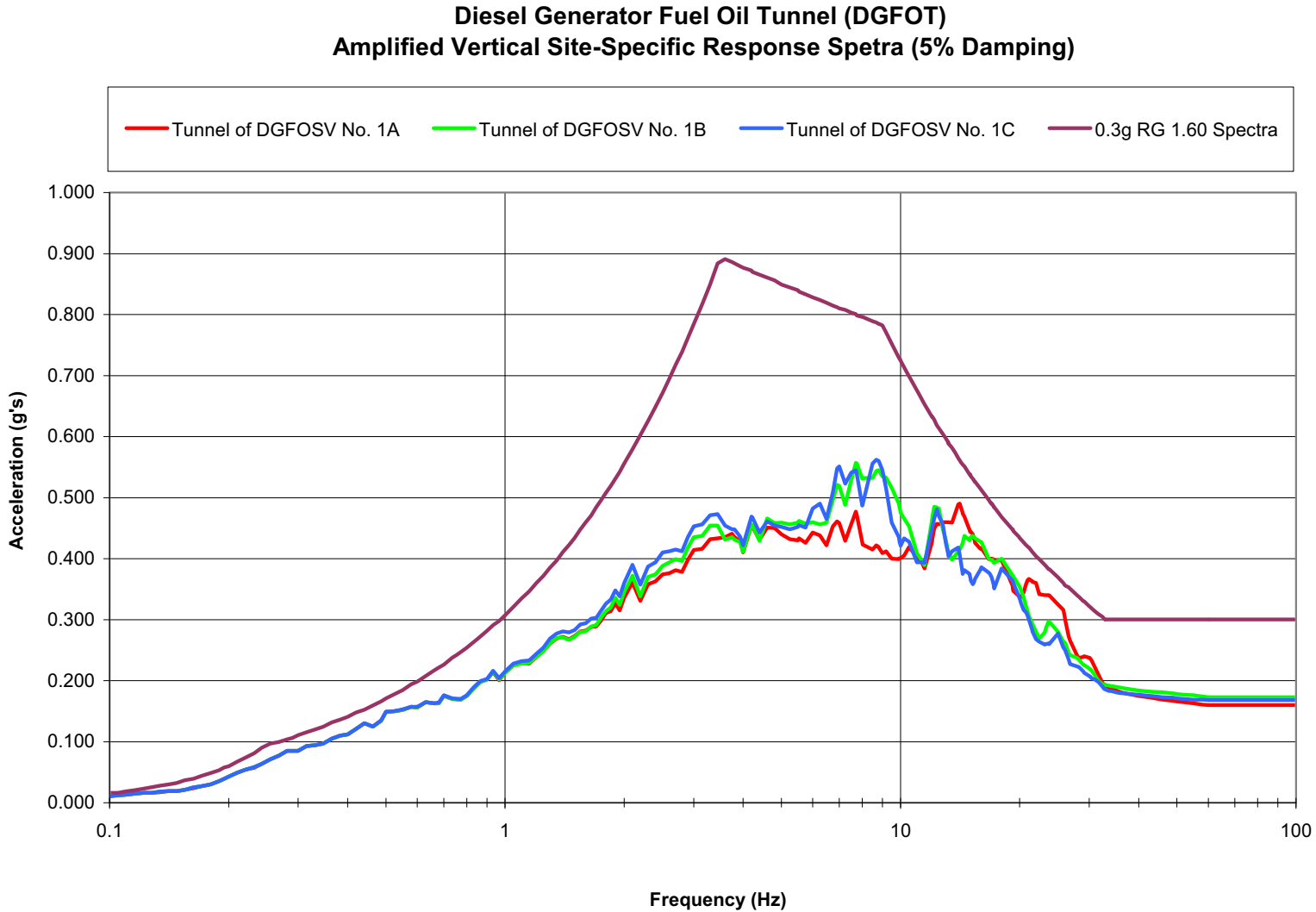


Figure 3H.7-30b Amplified E-W Site-Specific Response Spectra  
Diesel Generator Fuel Oil Tunnel (DGFOT)



**Figure 3H.7-30c Amplified Vertical Site-Specific Response Spectra**  
**Diesel Generator Fuel Oil Tunnel (DGFOT)**

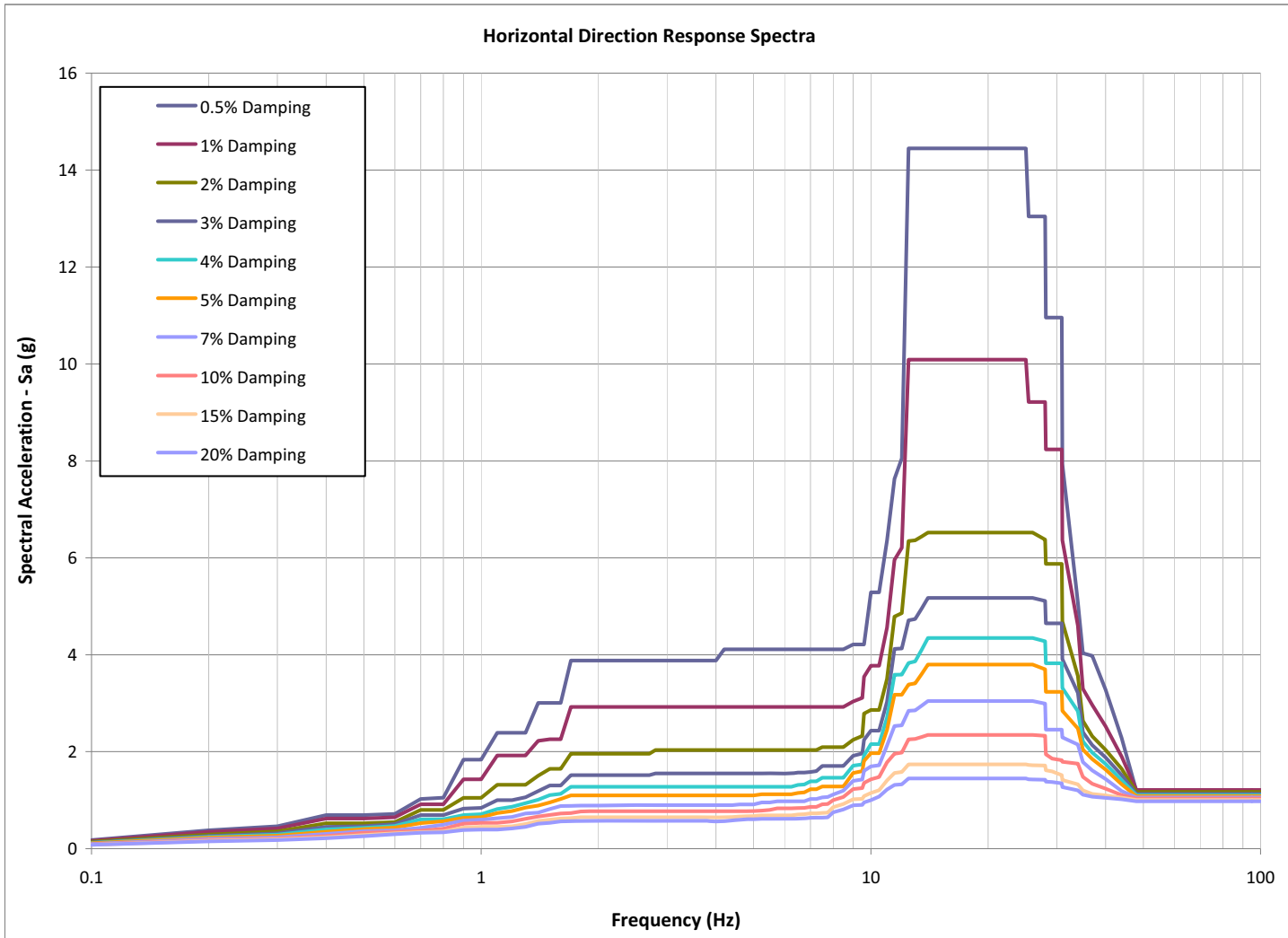


Figure 3H.7-31 Enveloped, Broadened Horizontal Response Spectra for DGFOTs

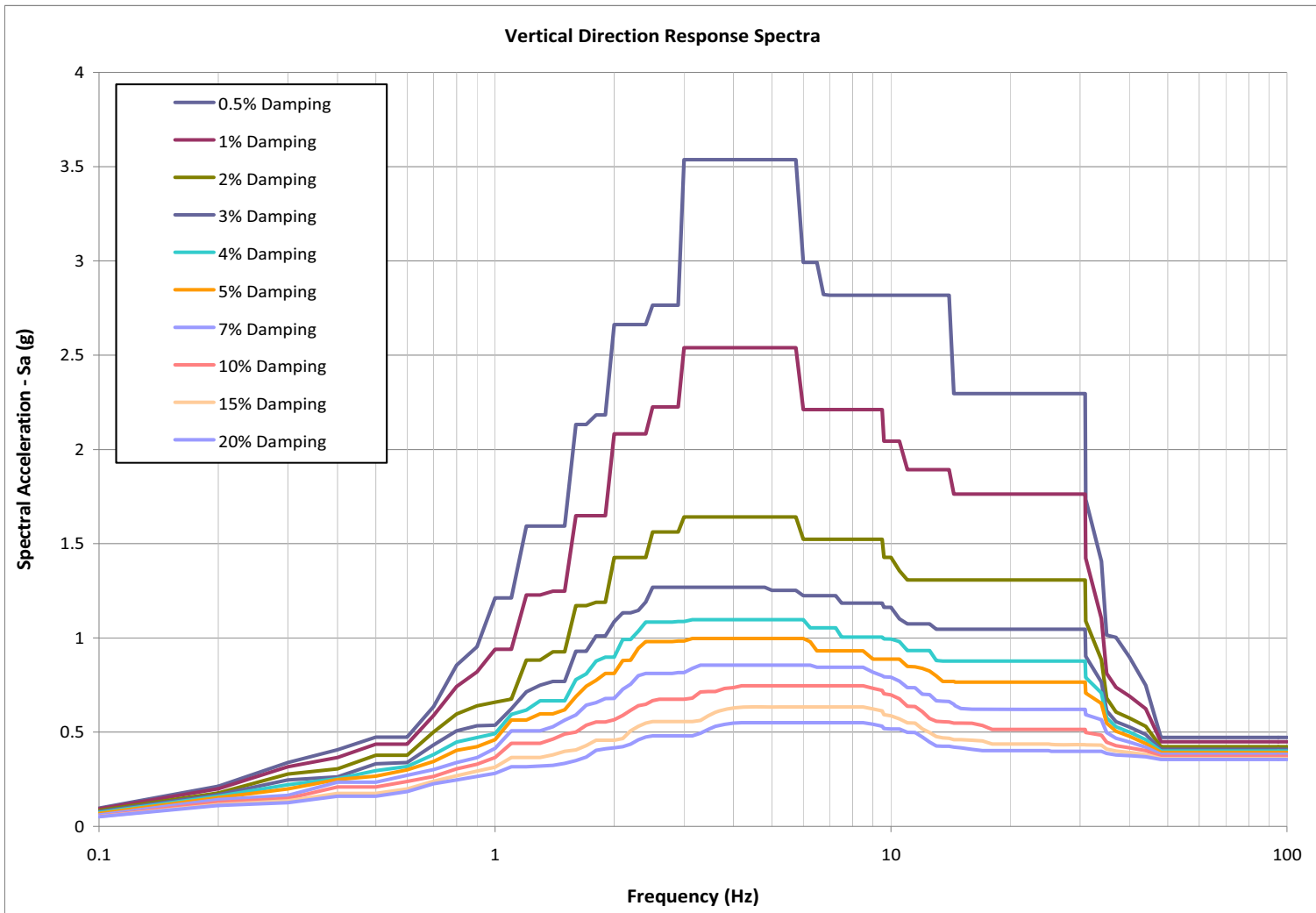


Figure 3H.7-32 Enveloped, Broadened Vertical Response Spectra for DGFOTs

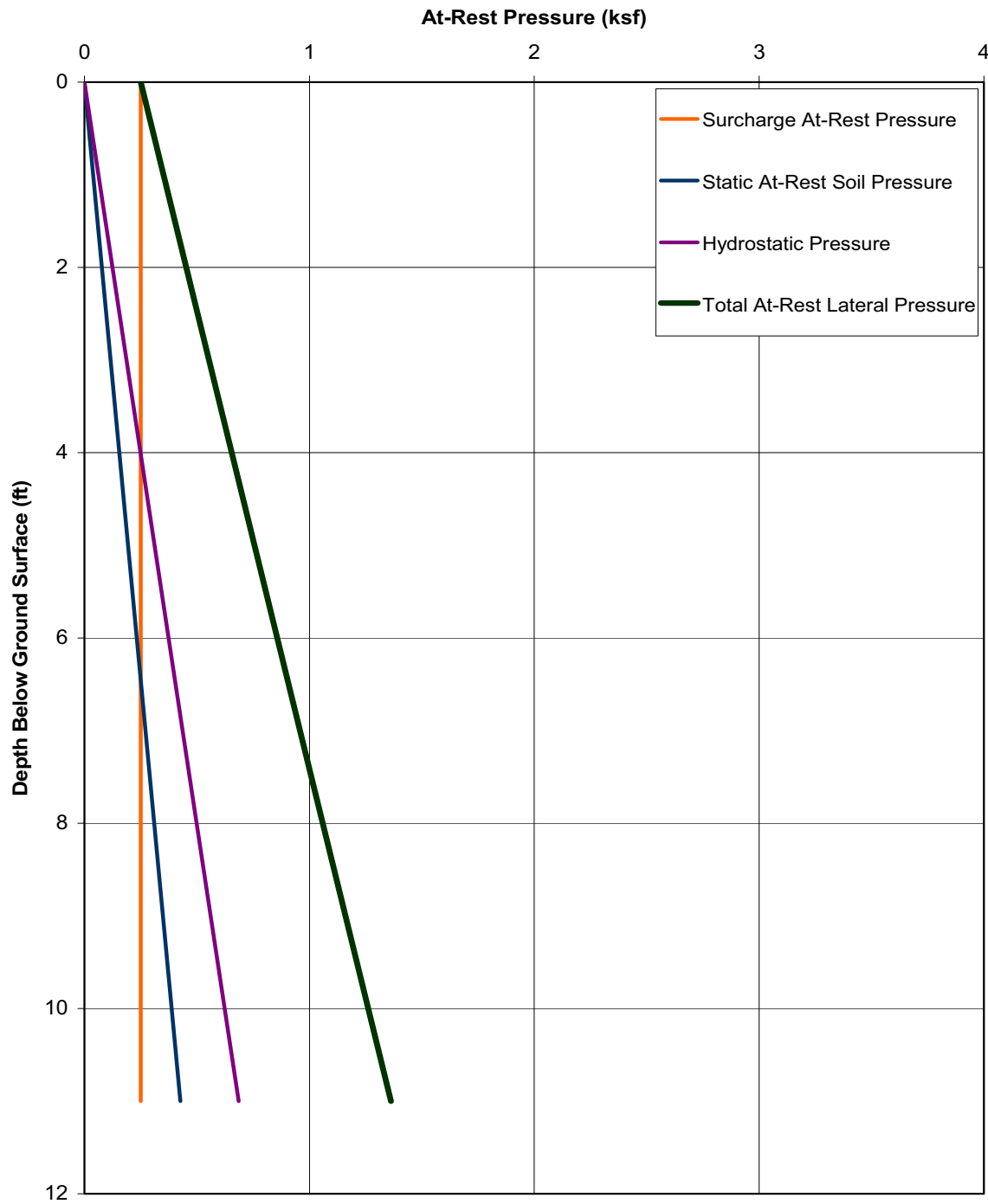


Figure 3H.7-33 At-Rest Lateral Earth Pressure on the DGFOT Walls

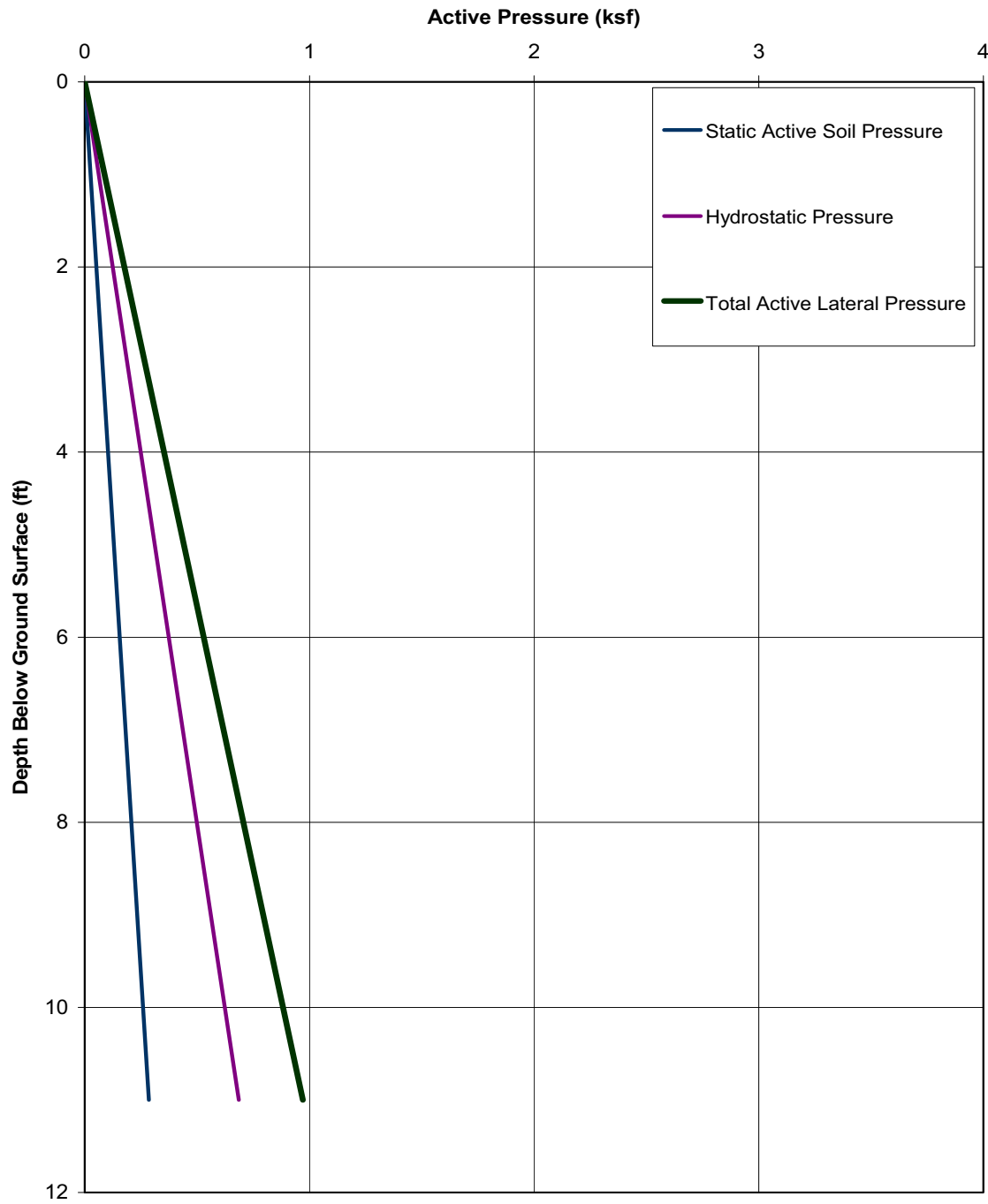


Figure 3H.7-34 Active Lateral Earth Pressure on the DGFOT Walls

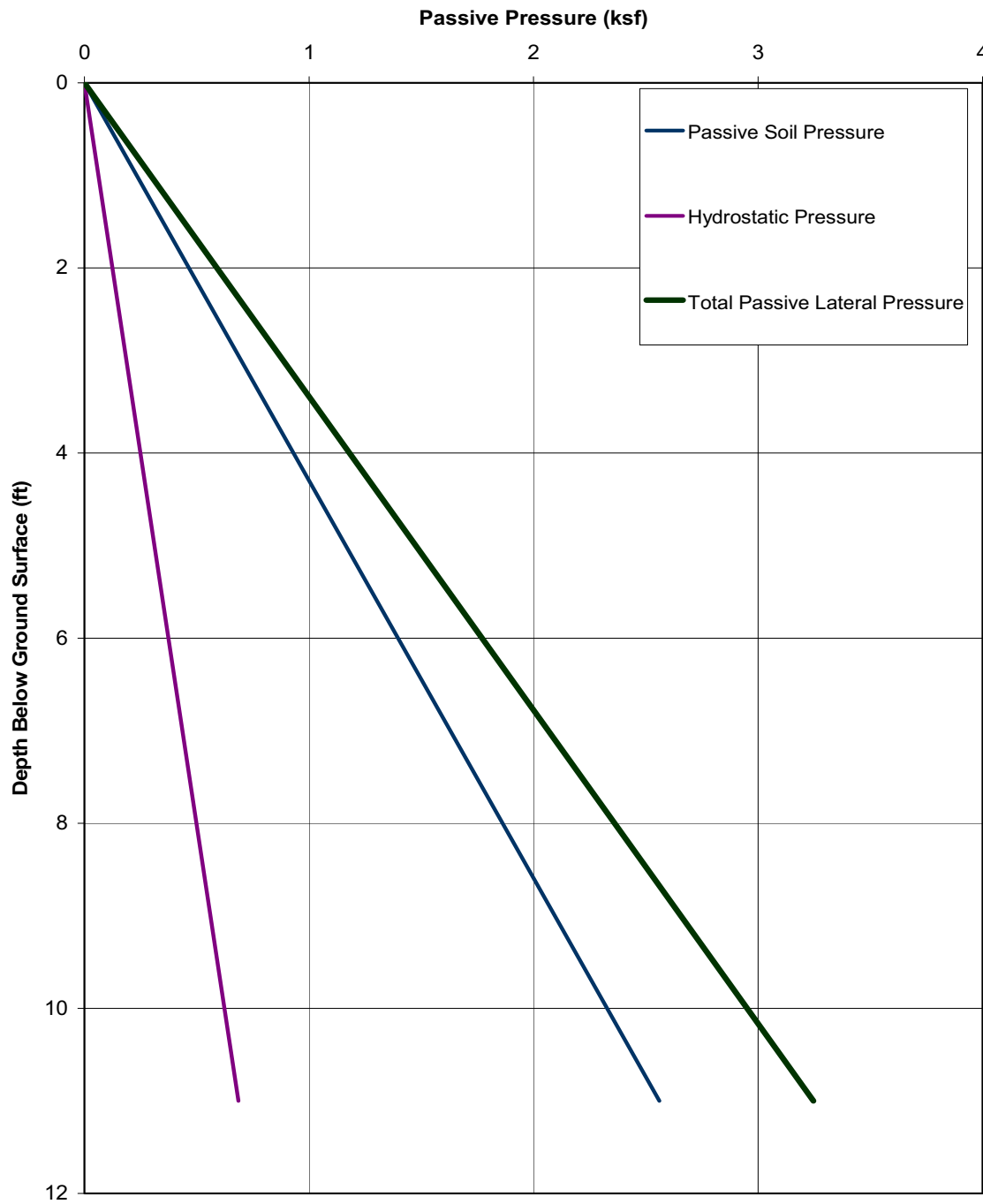


Figure 3H.7-35 Passive Lateral Earth Pressure on the DGFOT Walls

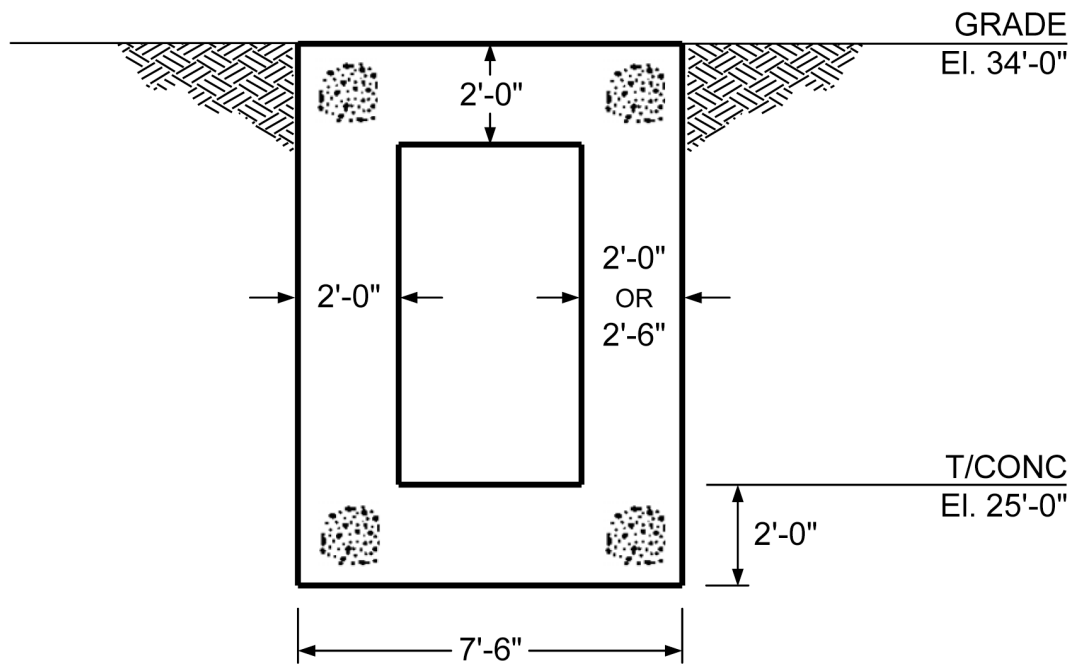
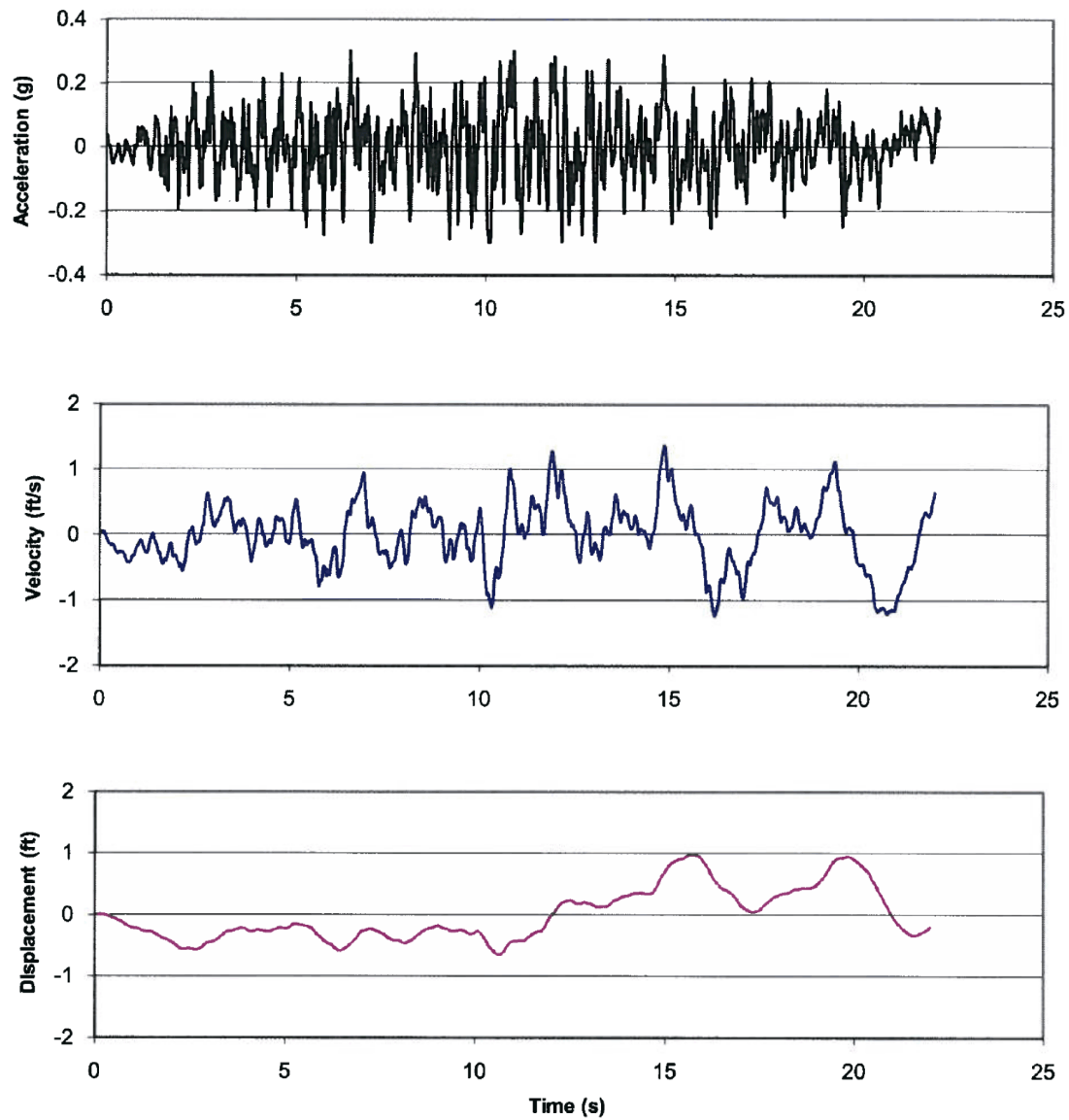
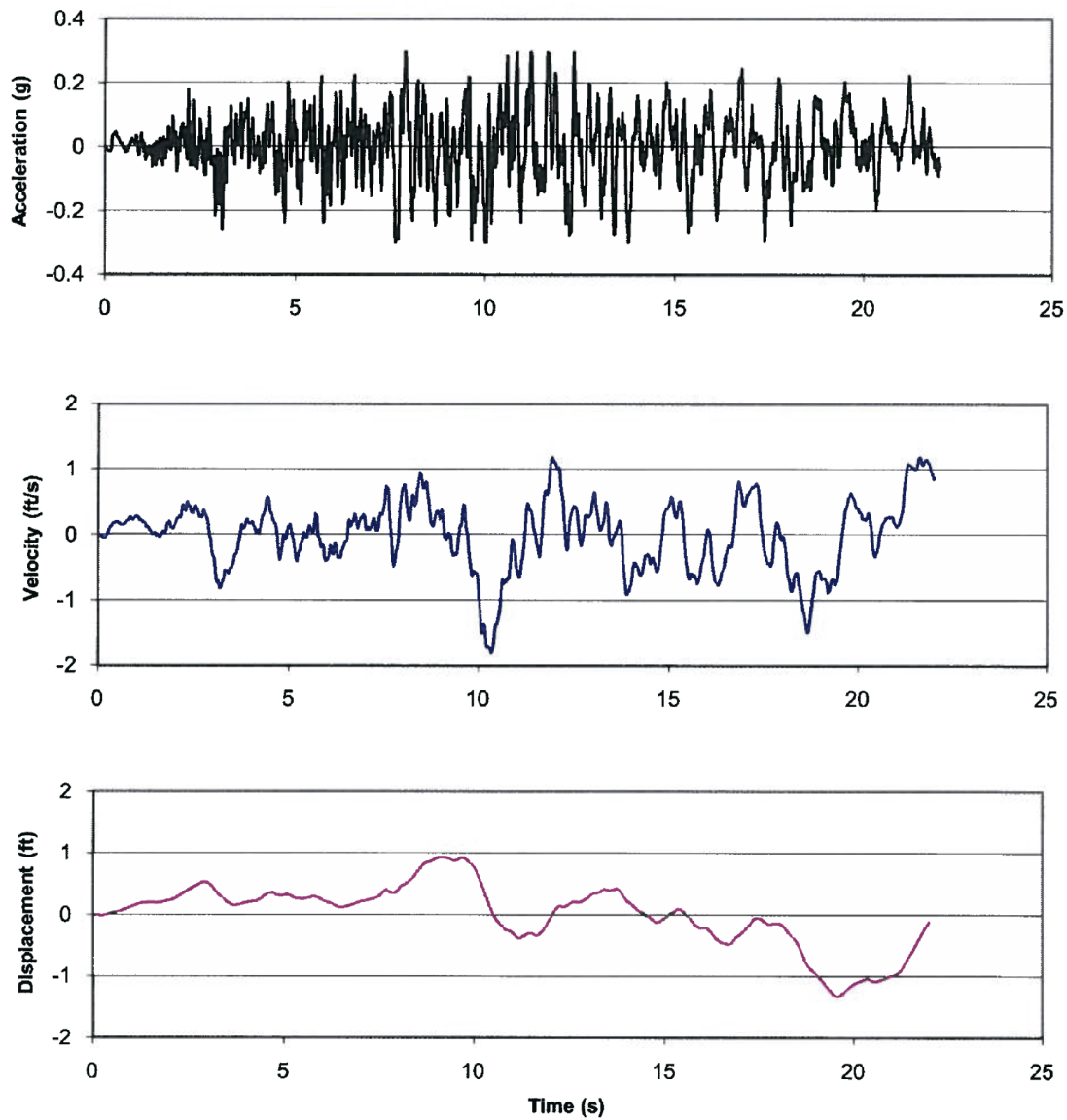


Figure 3H.7-36 Typical DGFOT Section





**Figure 3H.8-1 Horizontal H1 Time History, Matching Horizontal R.G. 1.60 Response Spectrum**



**Figure 3H.8-2 Horizontal H2 Time History, Matching Horizontal R.G. 1.60 Response Spectrum**

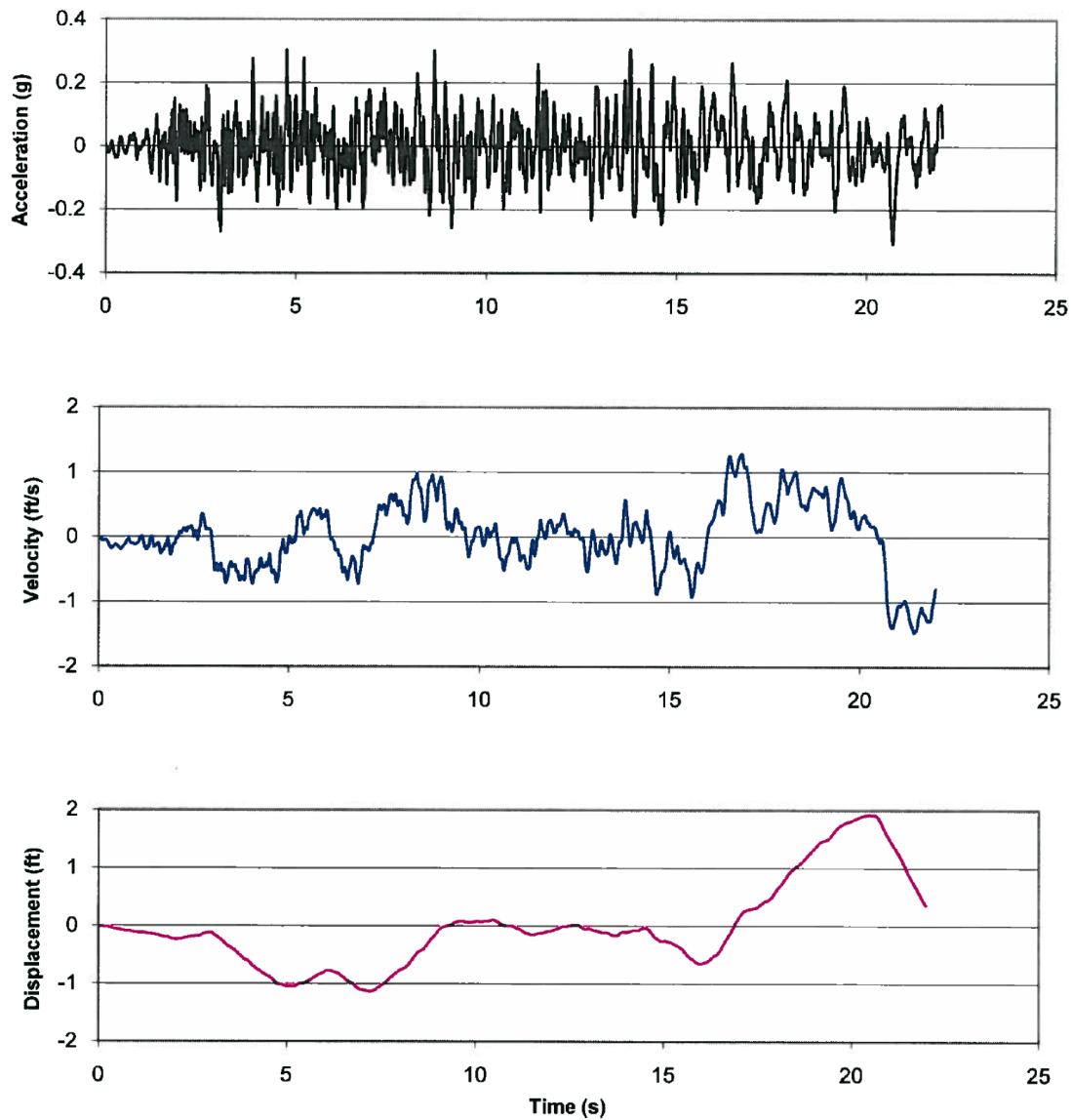


Figure 3H.8-3 Vertical V1 Time History, Matching Vertical R.G. 1.60 Response Spectrum

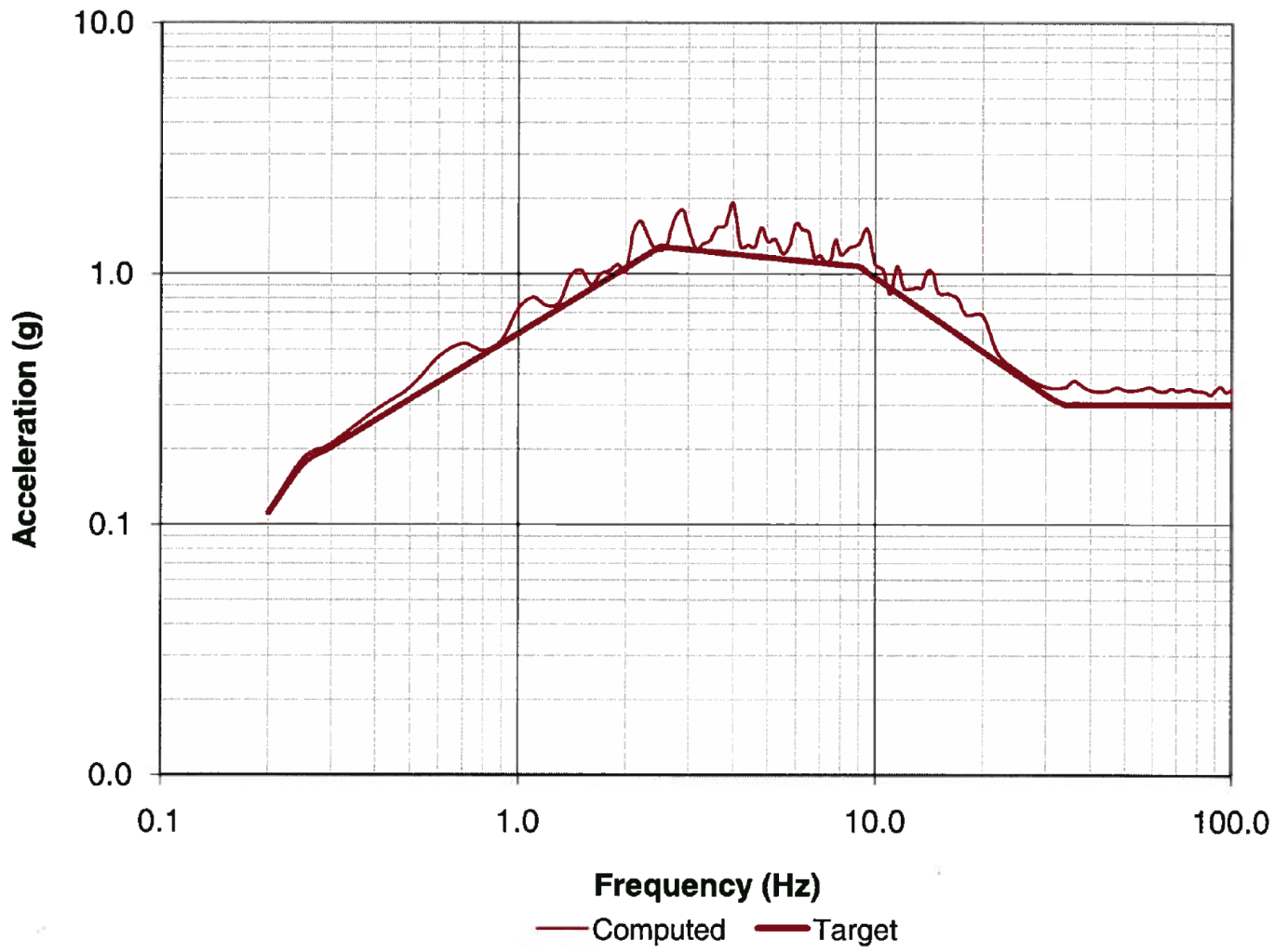


Figure 3H.8-4 Target vs. Computed Response Spectra, H1 Component, 2% damping

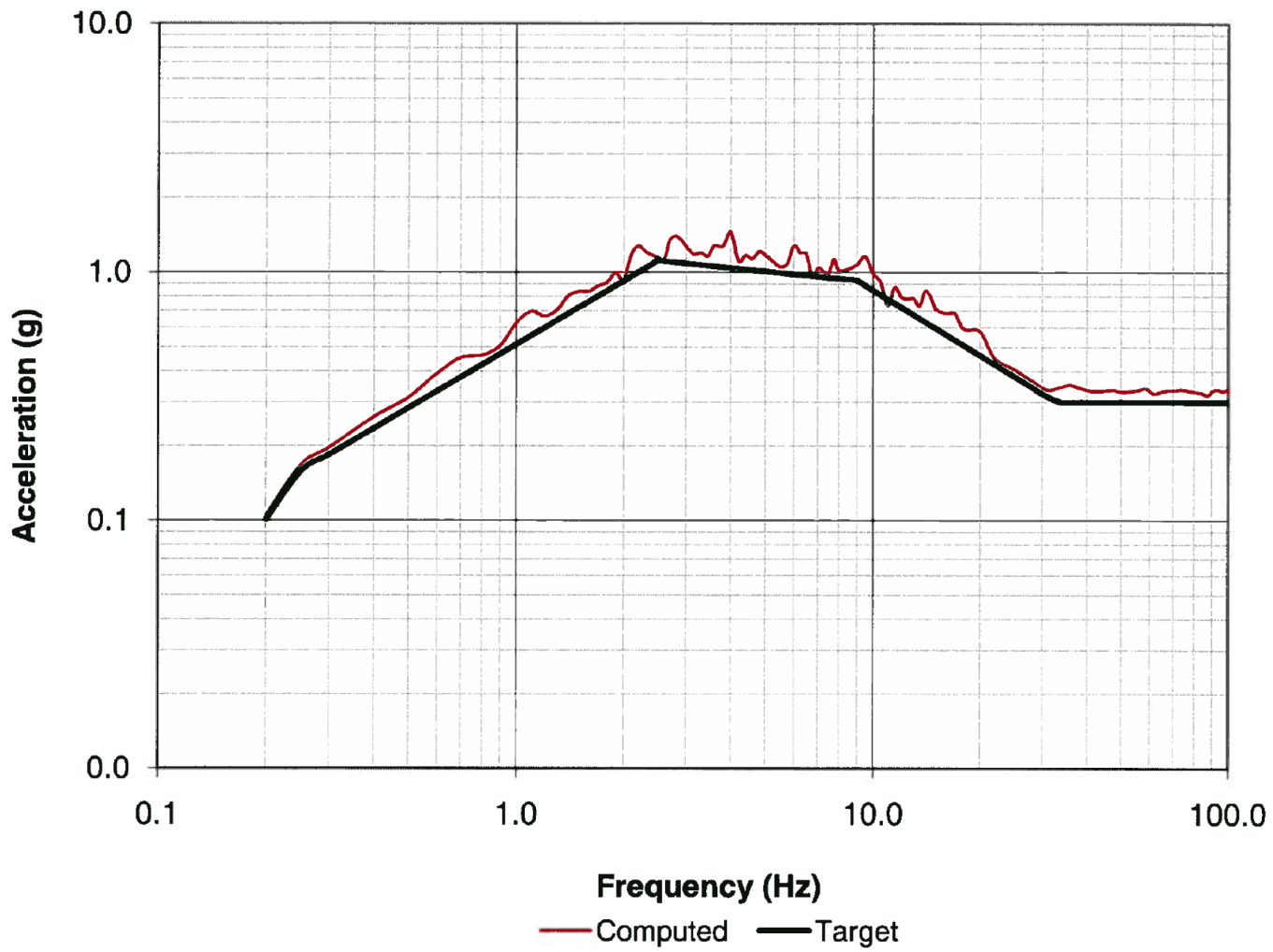


Figure 3H.8-5 Target vs. Computed Response Spectra, H1 Component, 3% damping

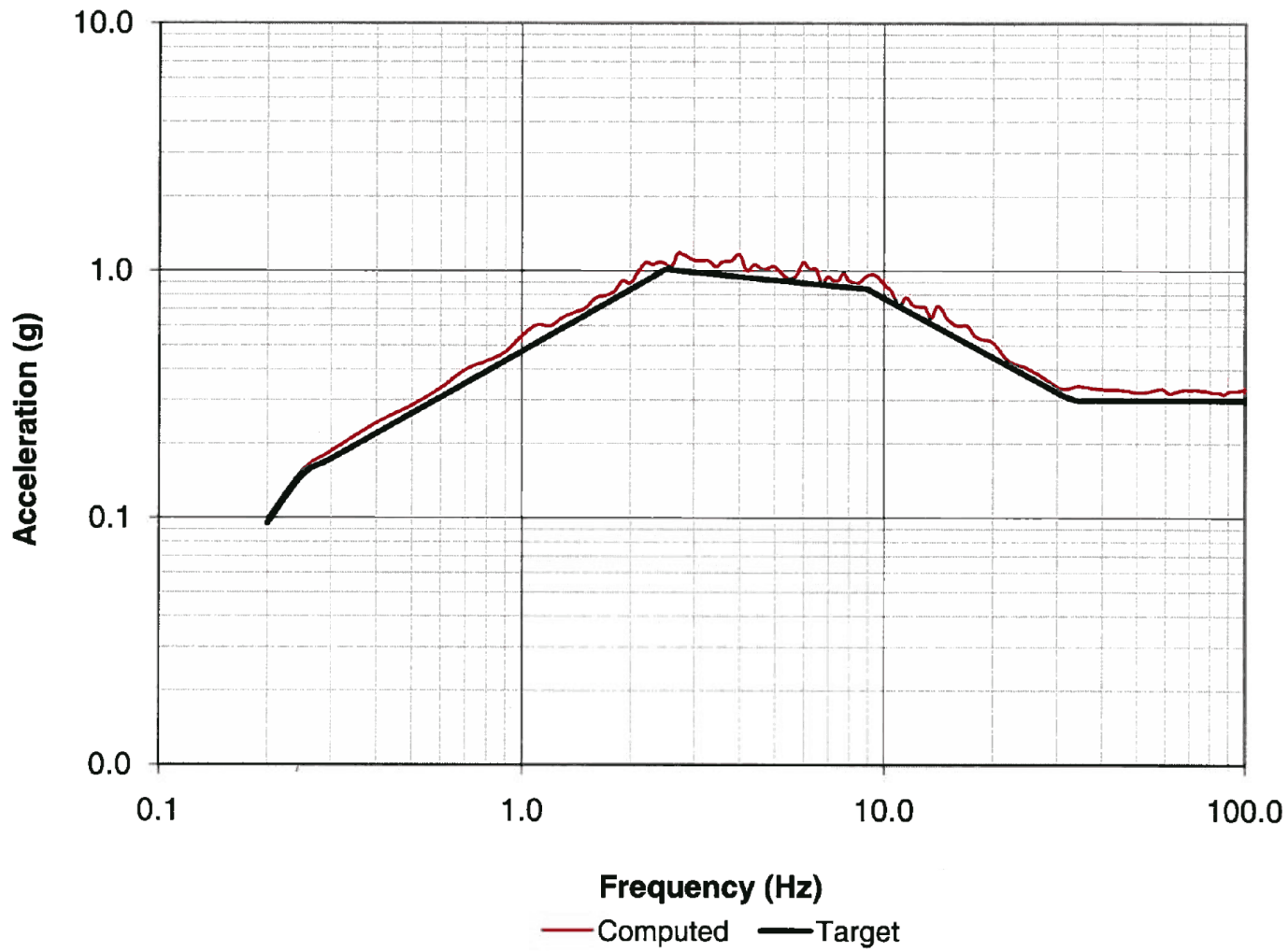


Figure 3H.8-6 Target vs. Computed Response Spectra, H1 Component, 4% damping

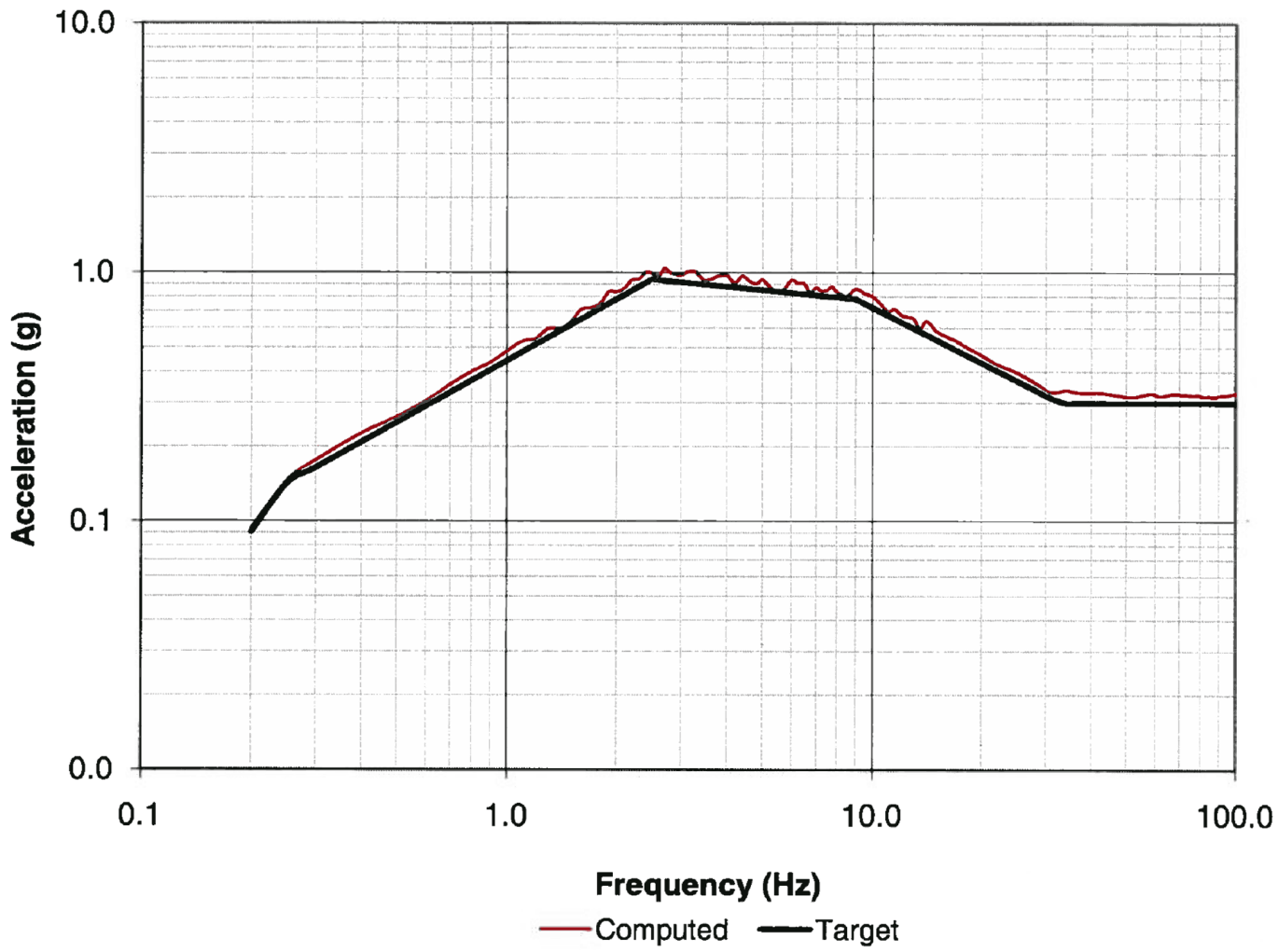


Figure 3H.8-7 Target vs. Computed Response Spectra, H1 Component, 5% damping

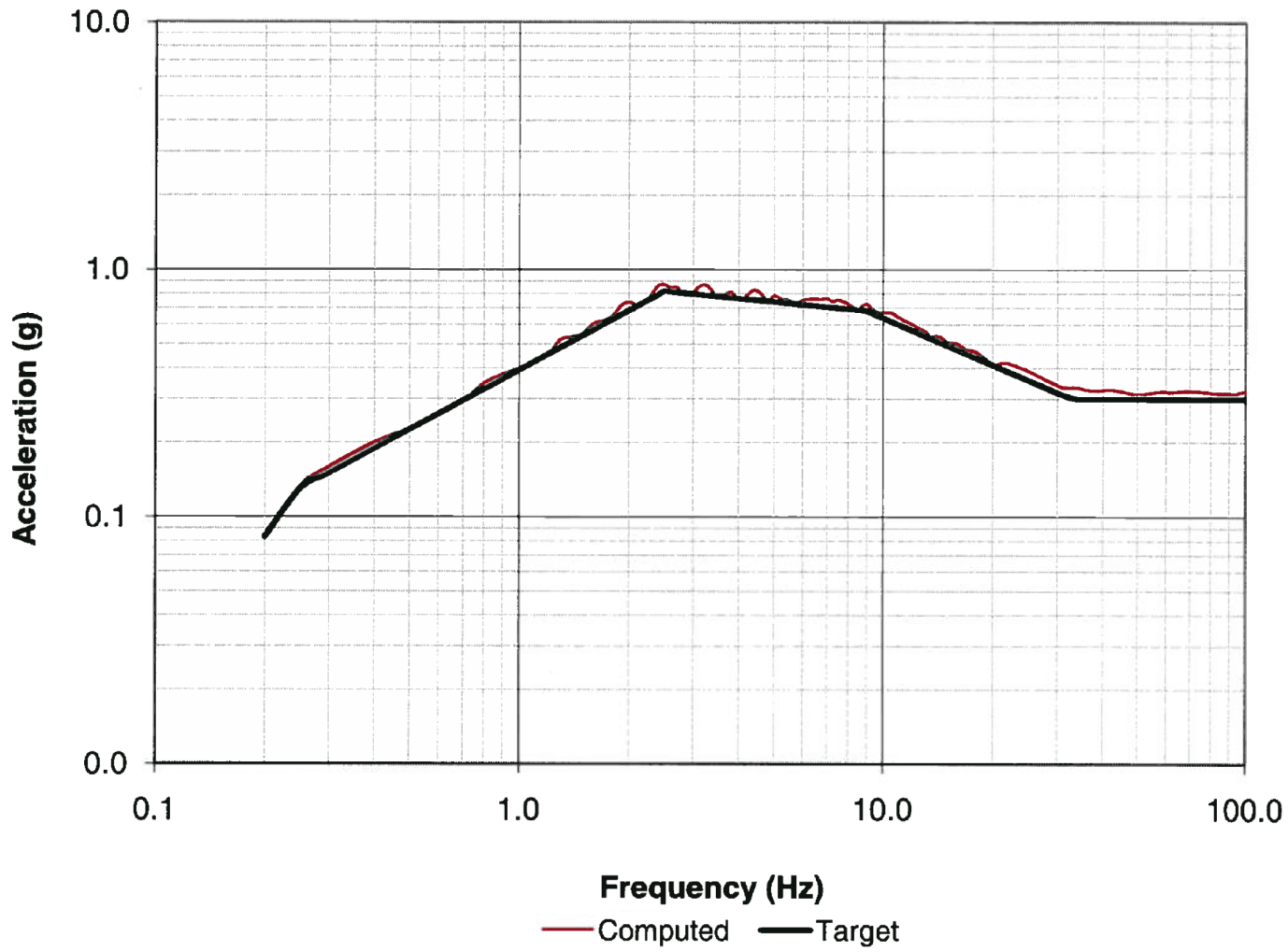


Figure 3H.8-8 Target vs. Computed Response Spectra, H1 Component, 7% damping



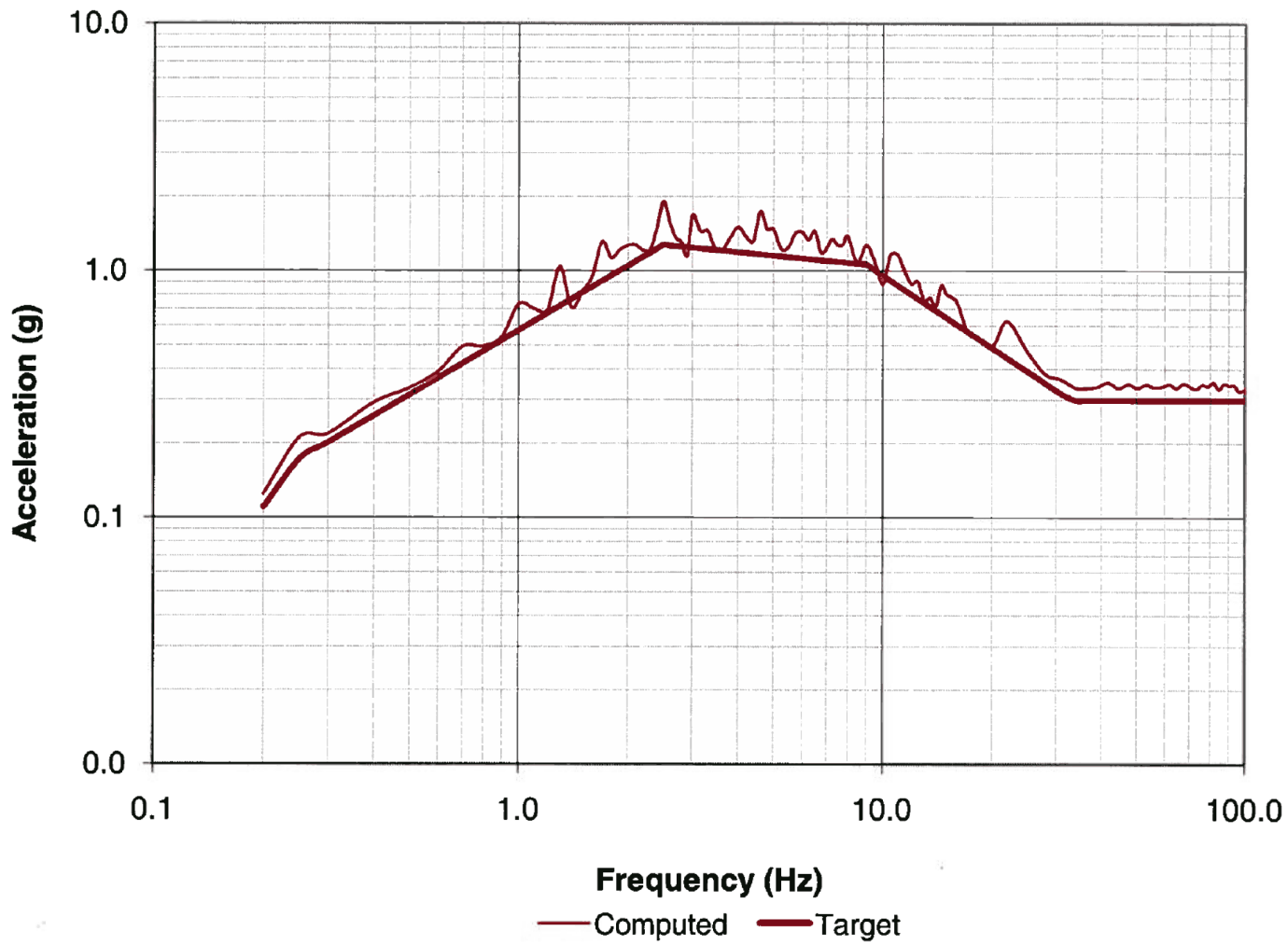


Figure 3H.8-9 Target vs. Computed Response Spectra, H2 Component, 2% Damping

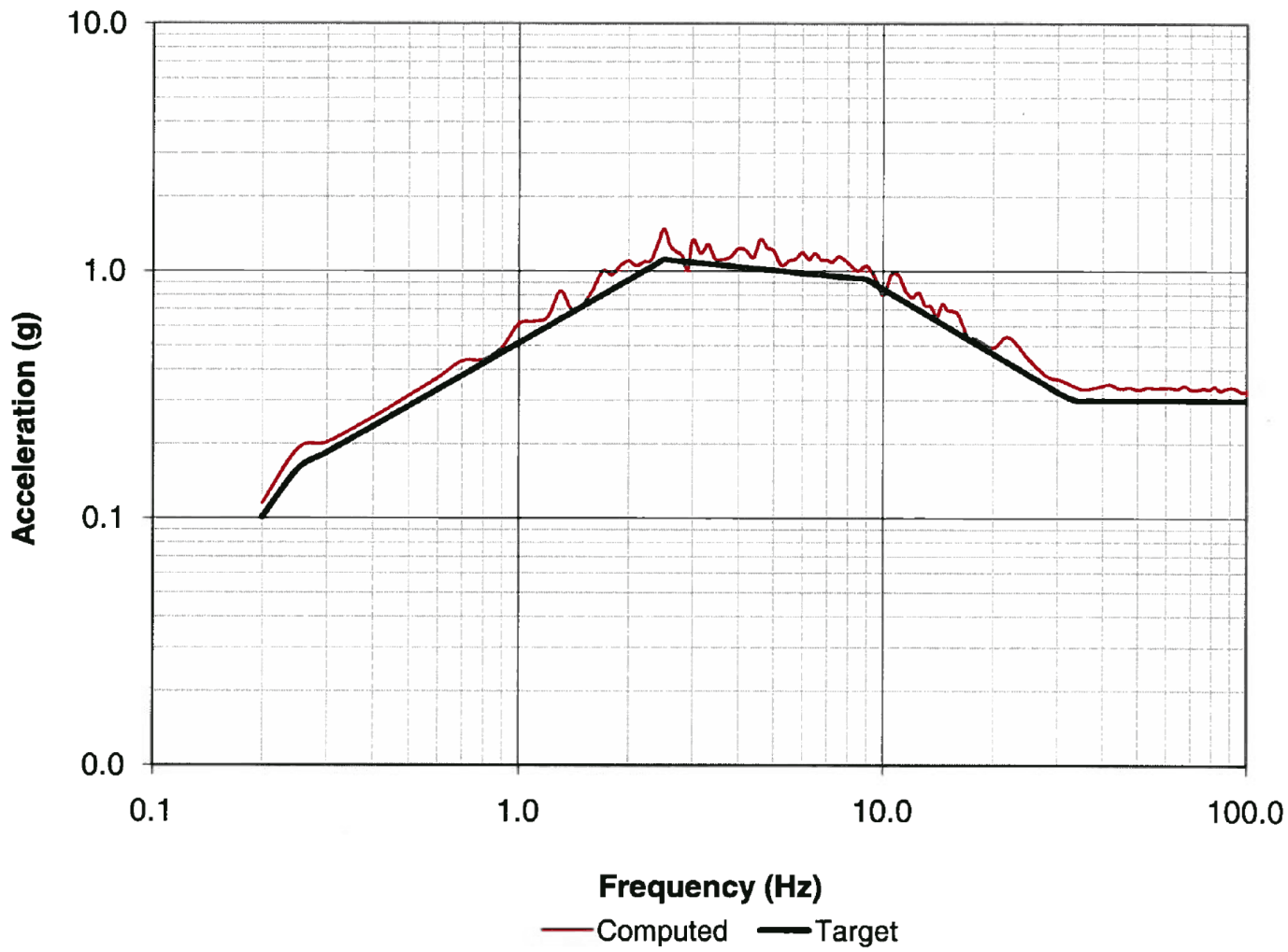


Figure 3H.8-10 Target vs. Computed Response Spectra, H2 Component, 3% Damping

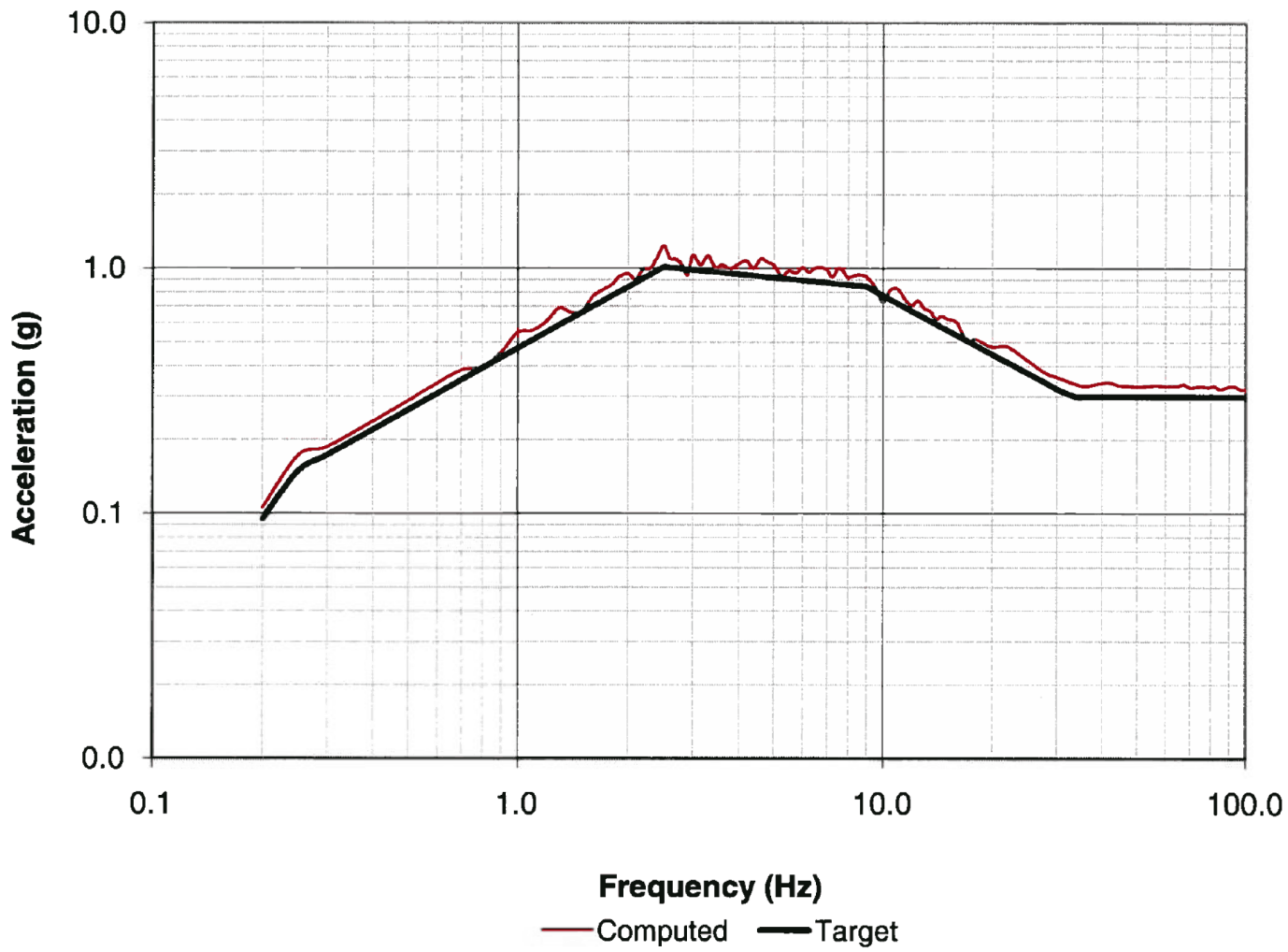


Figure 3H.8-11 Target vs. Computed Response Spectra, H2 Component, 4% Damping

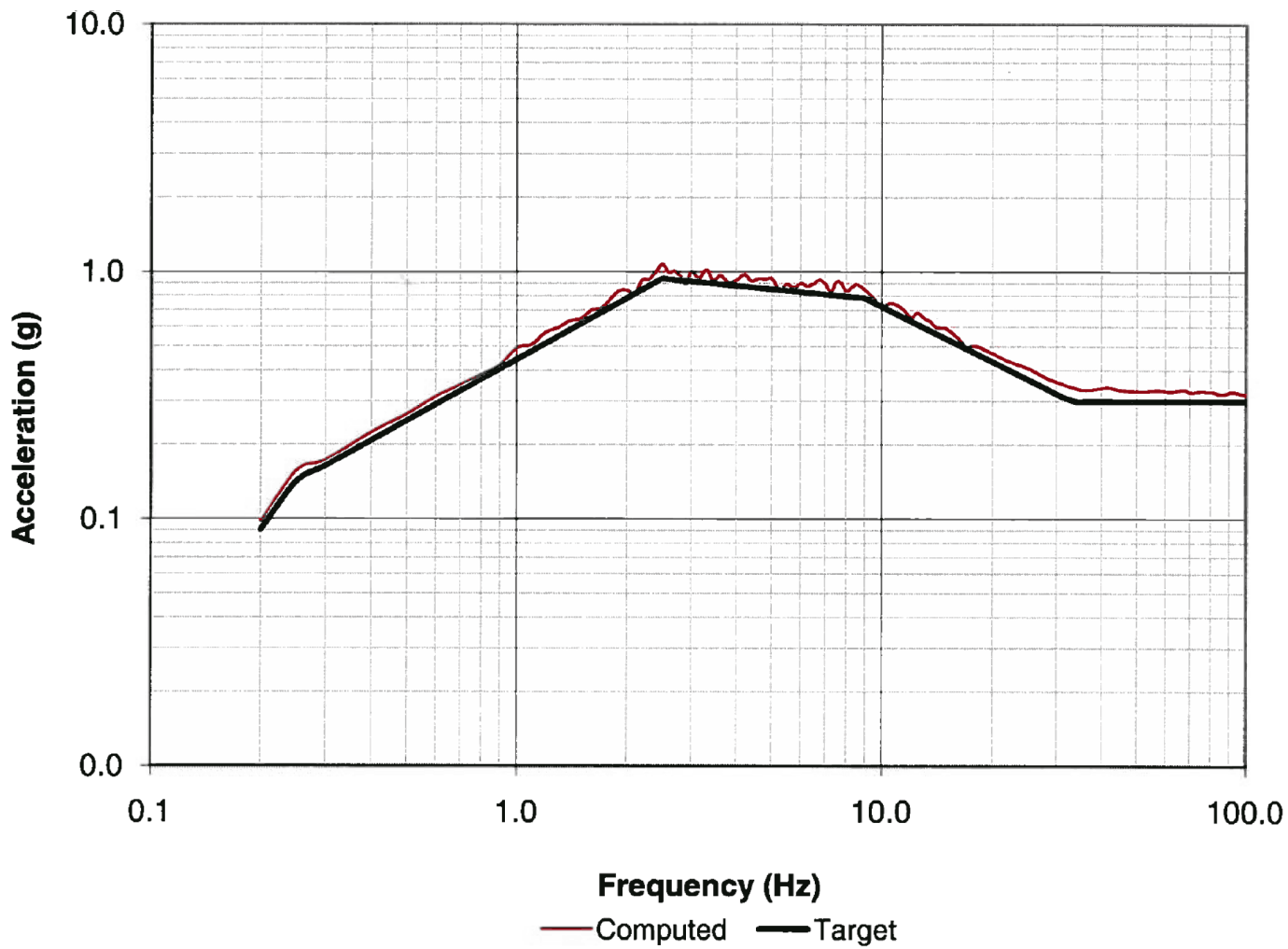


Figure 3H.8-12 Target vs. Computed Response Spectra, H2 Component, 5% Damping

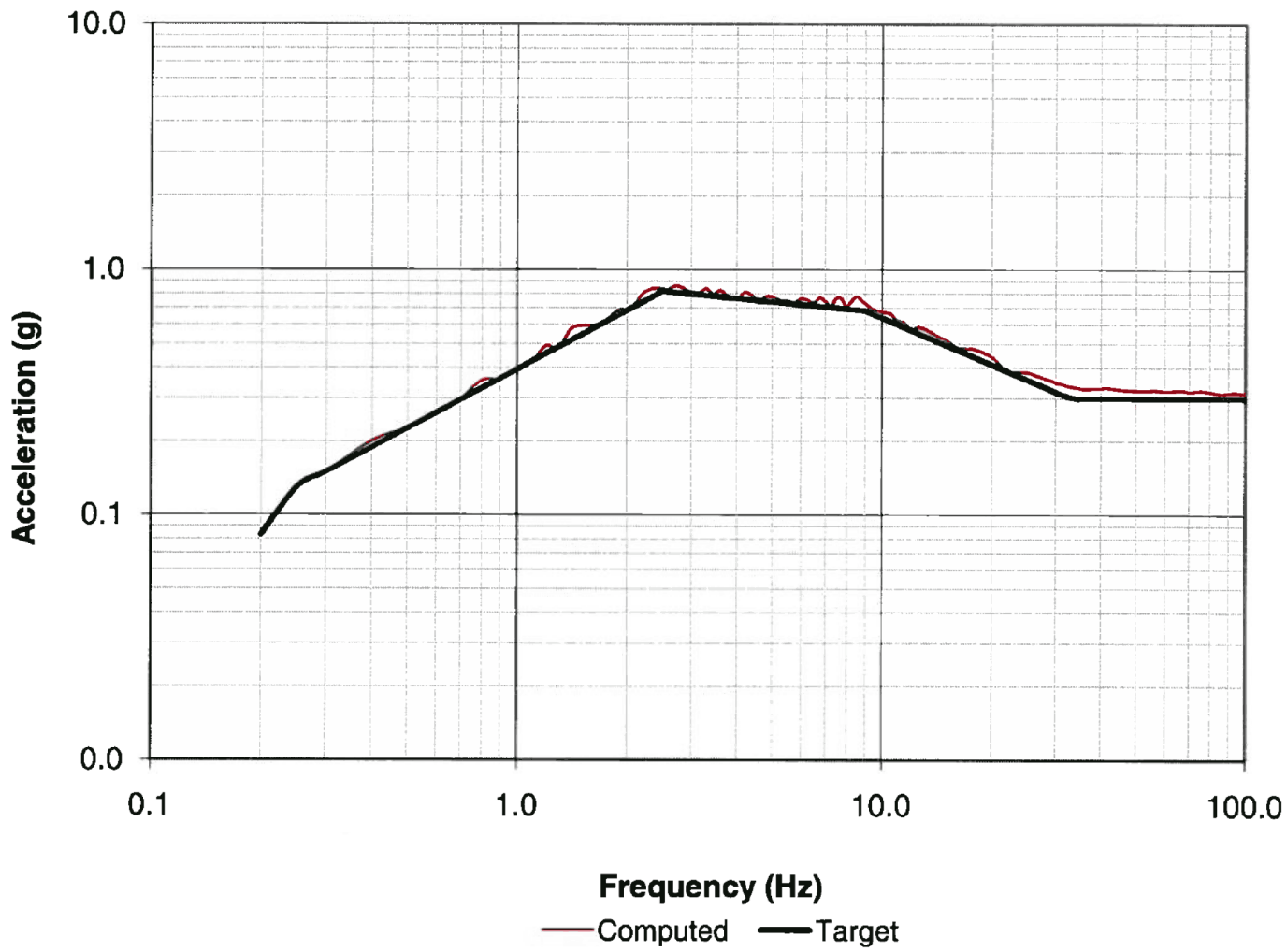


Figure 3H.8-13 Target vs. Computed Response Spectra, H2 Component, 7% Damping

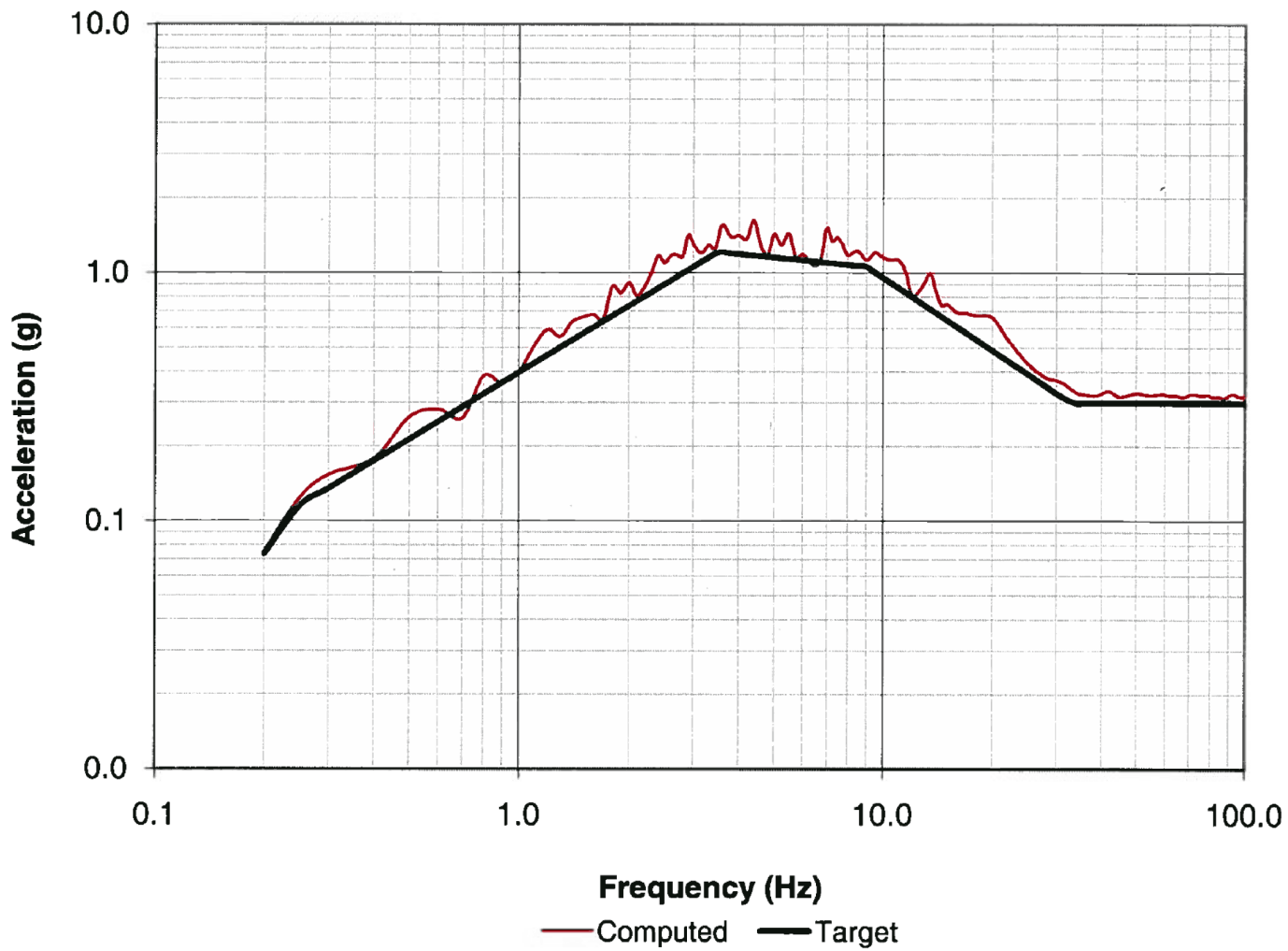


Figure 3H.8-14 Target vs. Computed Response Spectra, V1 Component, 2% Damping

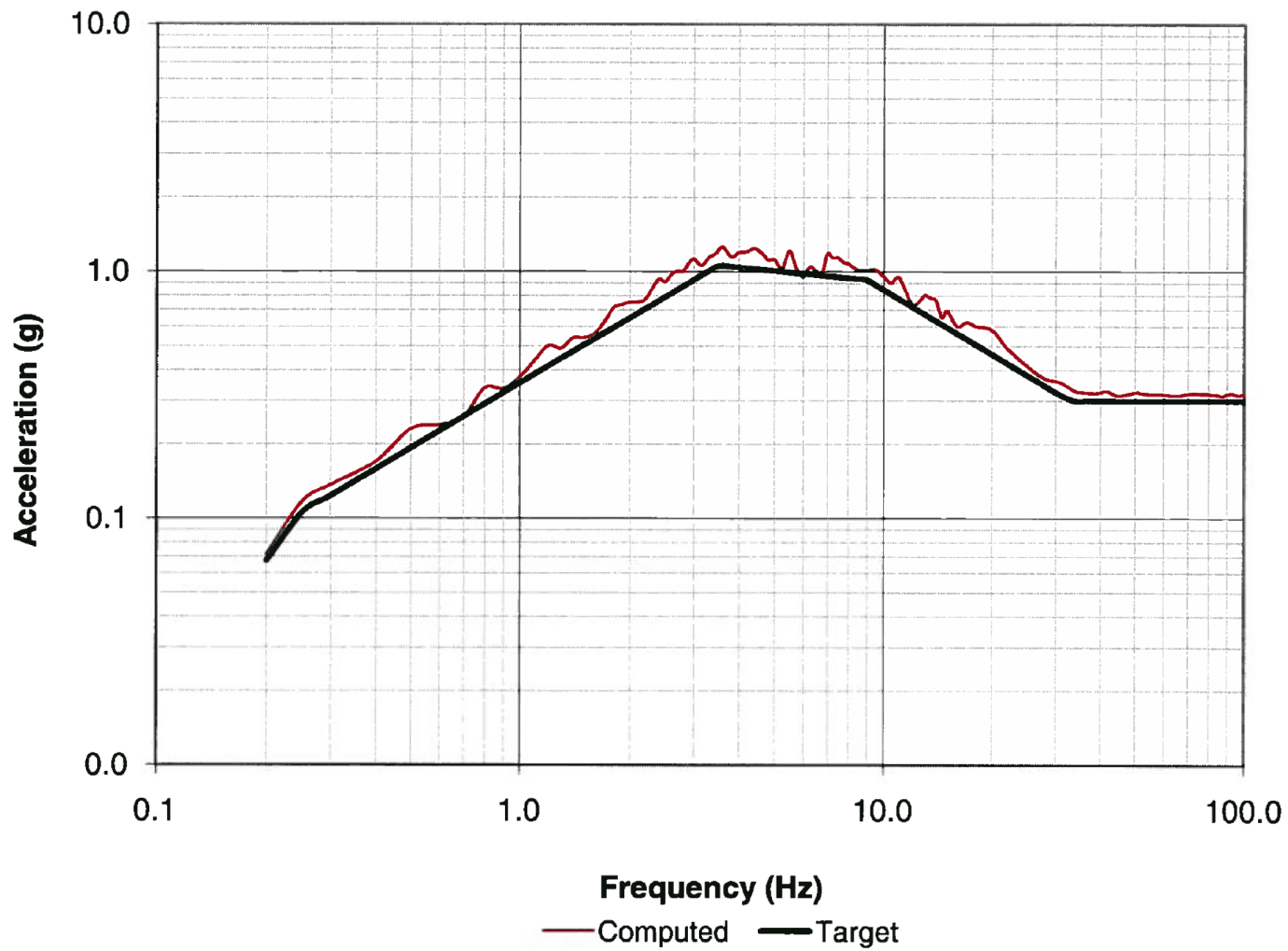


Figure 3H.8-15 Target vs. Computed Response Spectra, V1 Component, 3% Damping

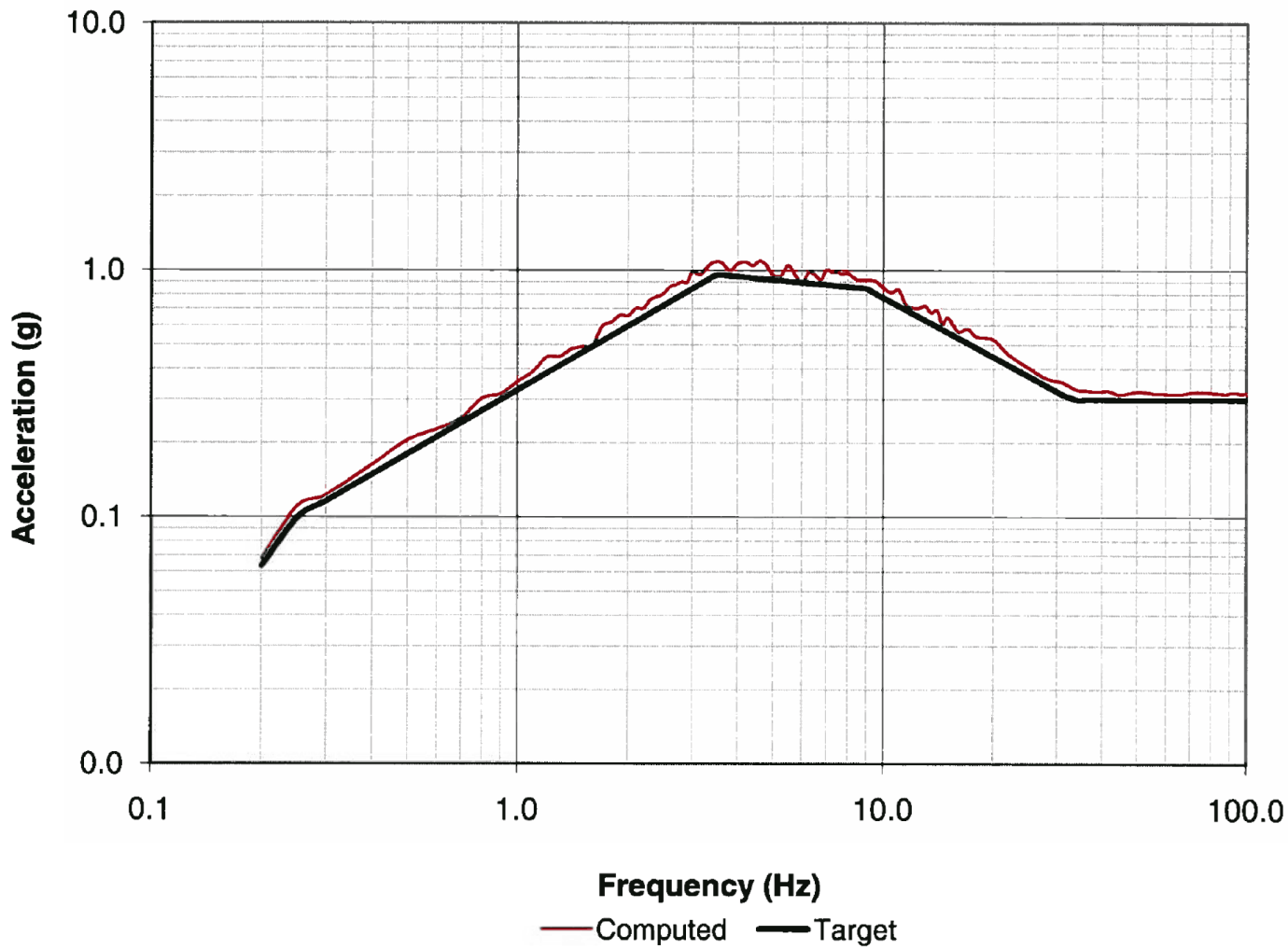


Figure 3H.8-16 Target vs. Computed Response Spectra, V1 Component, 4% Damping



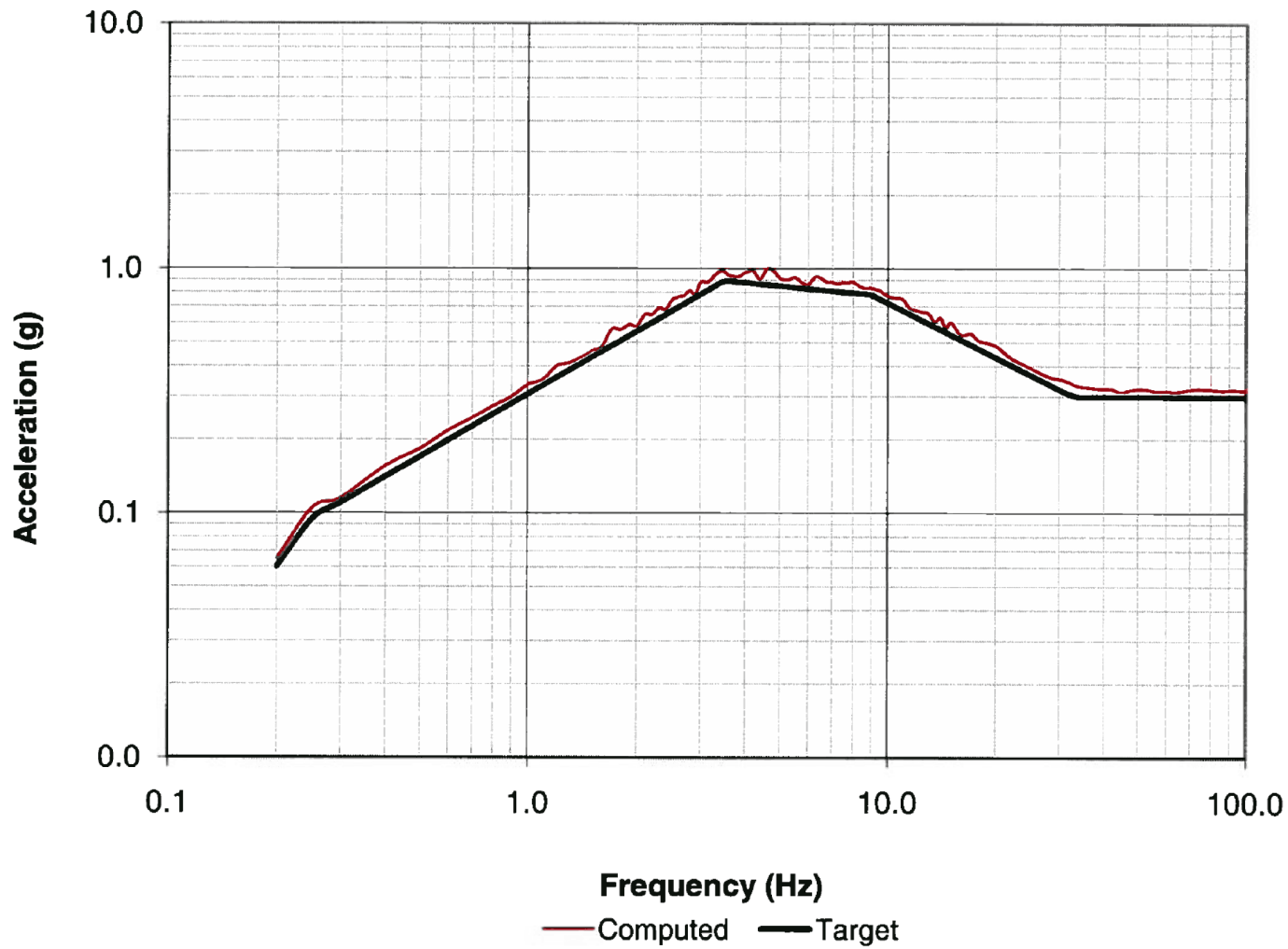


Figure 3H.8-17 Target vs. Computed Response Spectra, V1 Component, 5% Damping

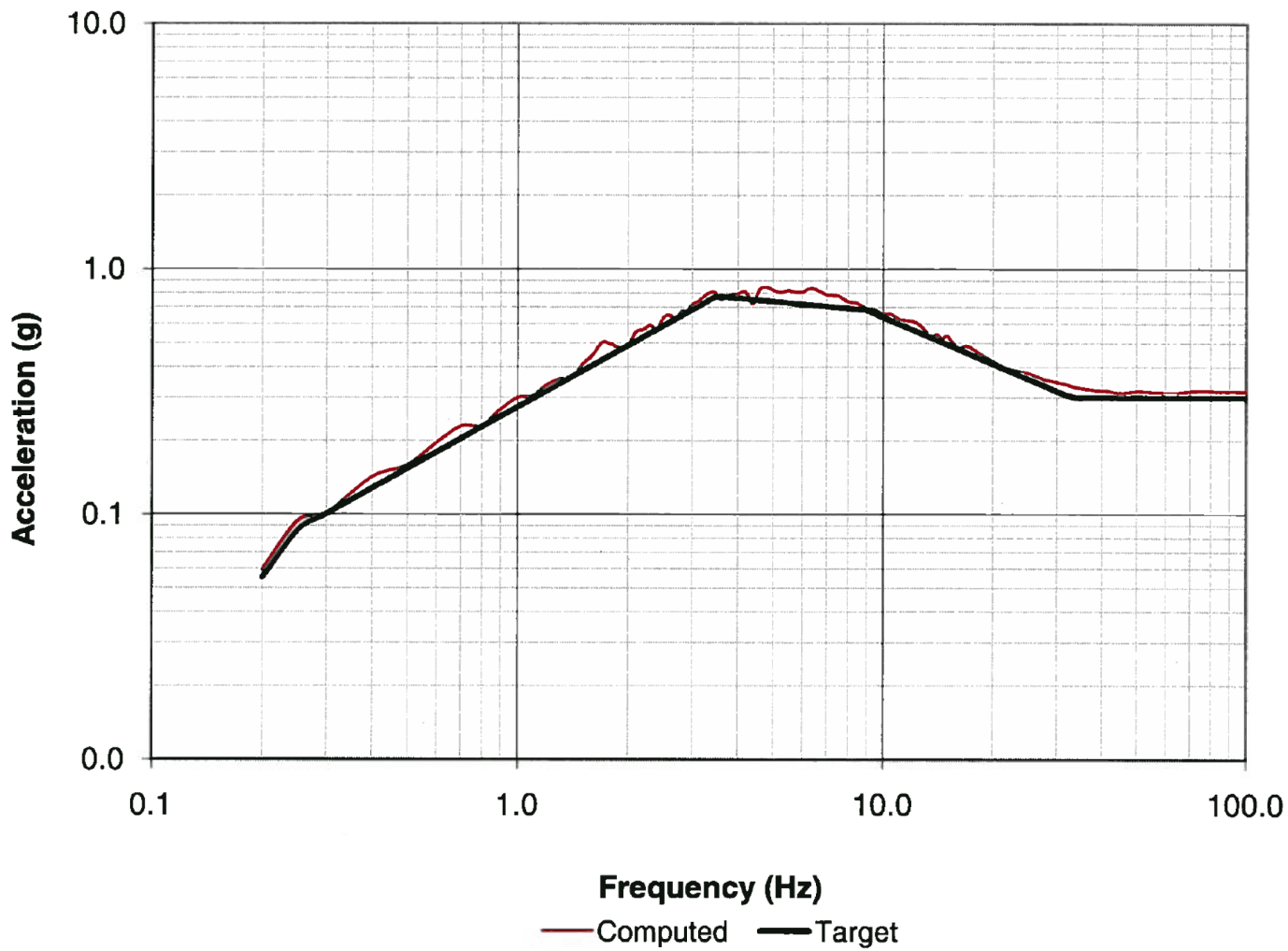


Figure 3H.8-18 Target vs. Computed Response Spectra, V1 Component, 7% Damping

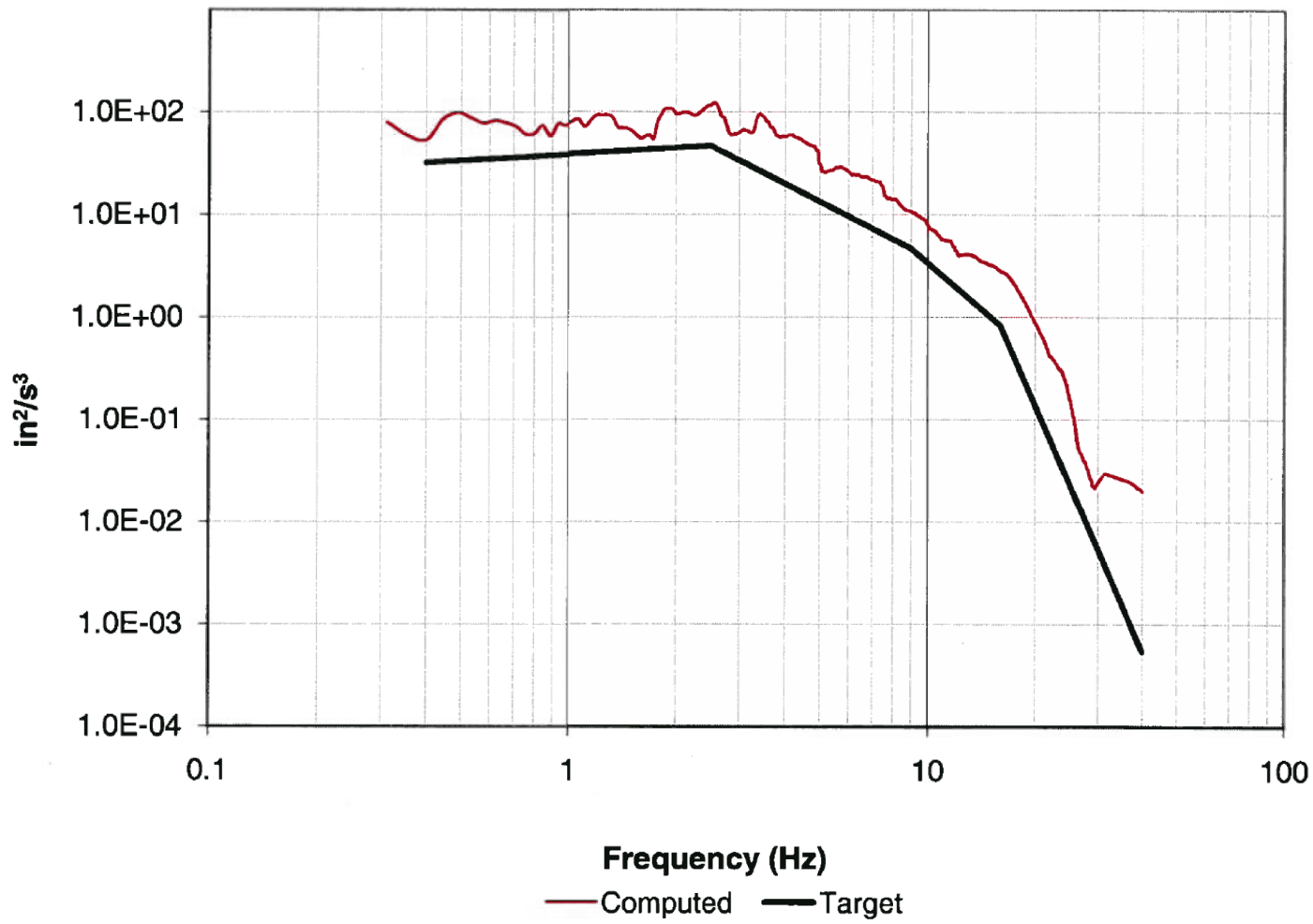


Figure 3H.8-19 Target vs. Computed Power Spectral Density, Horizontal H1 Component

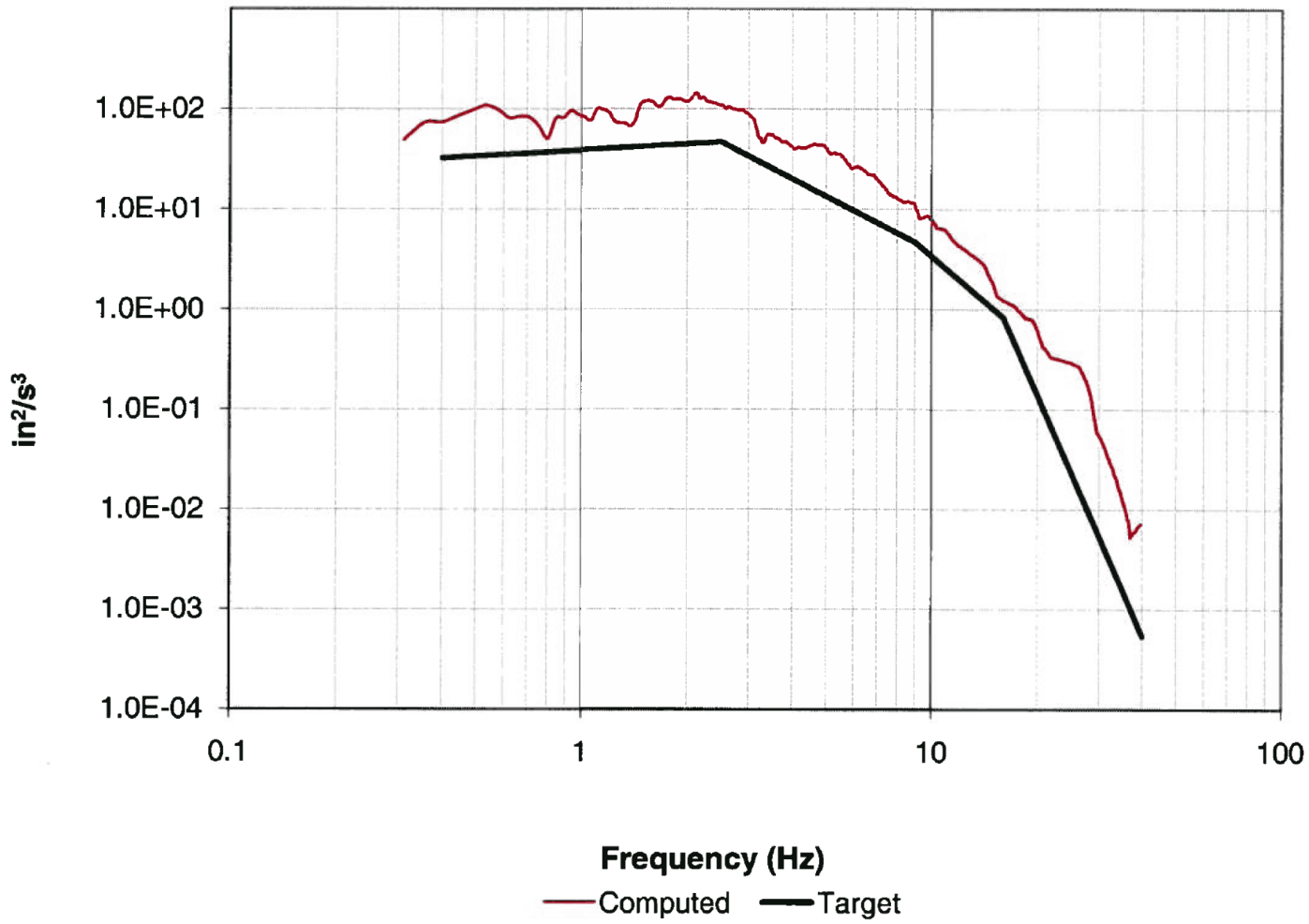


Figure 3H.8-20 Target vs. Computed Power Spectral Density, Horizontal H2 Component

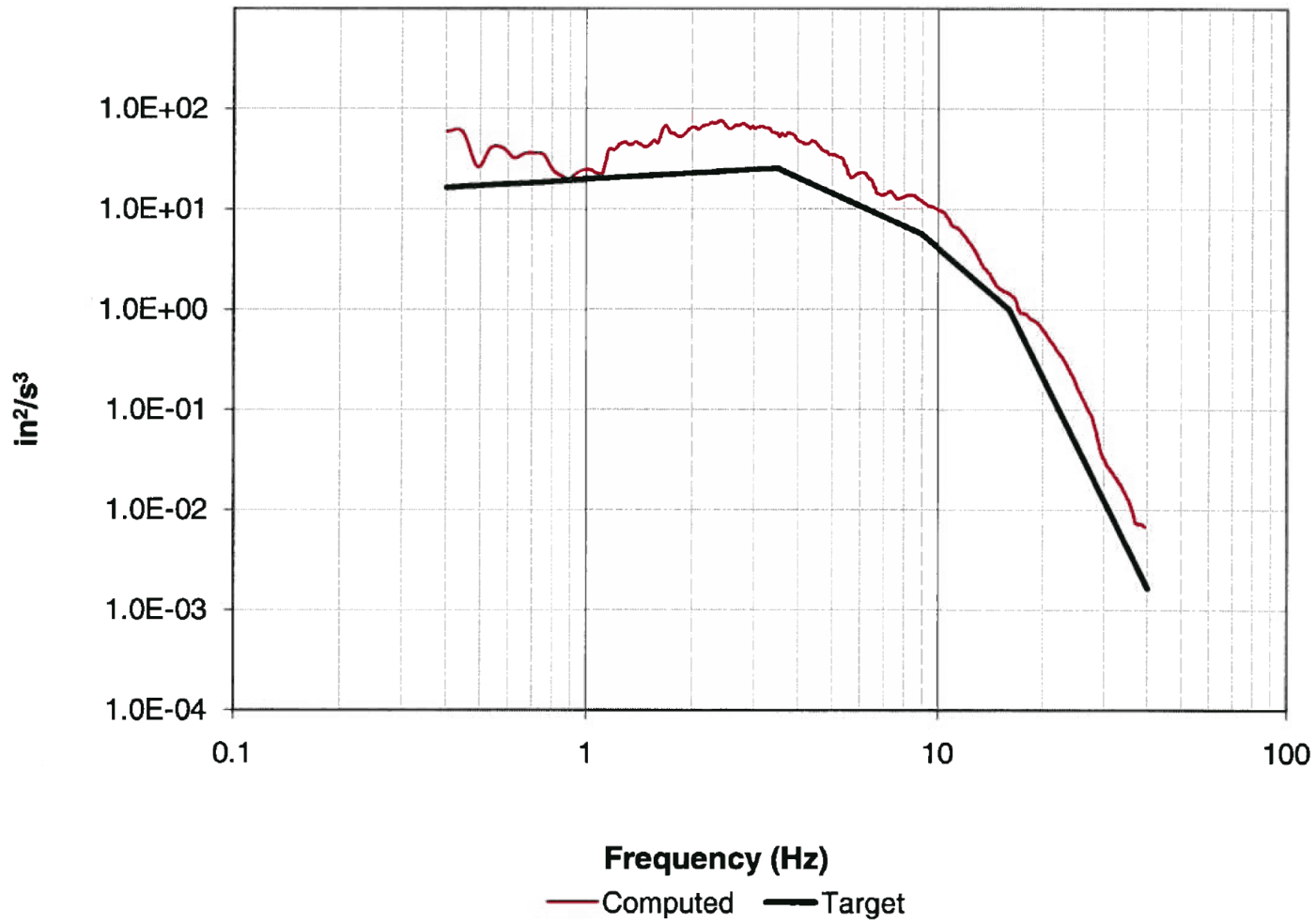


Figure 3H.8-21 Target vs. Computed Power Spectral Density, Vertical V1 Component

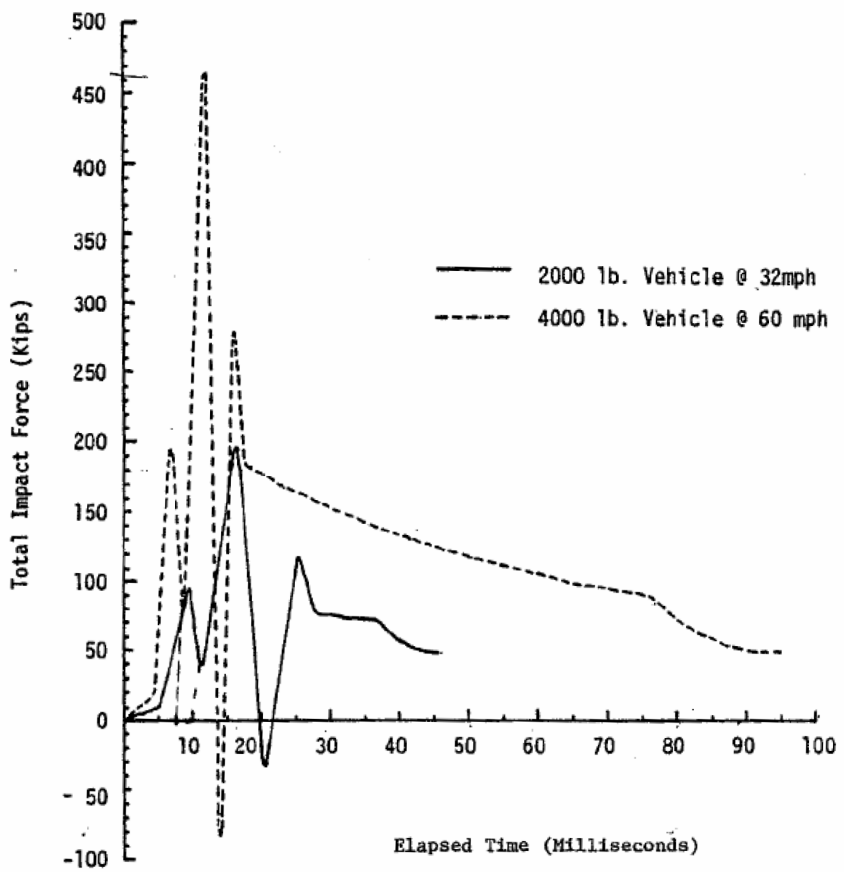


Figure 3H.11-1 Automobile Missile Impact Forcing Function

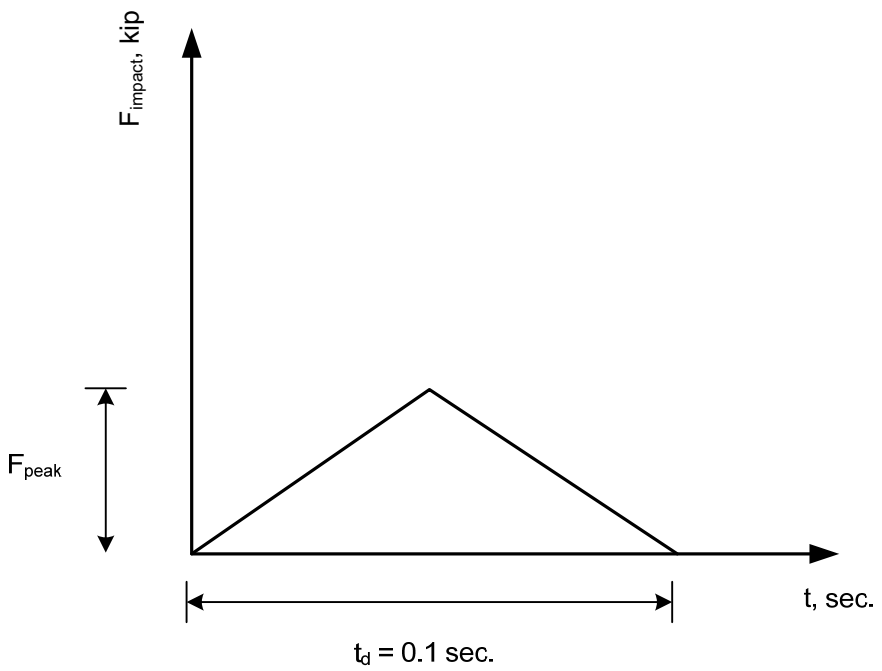
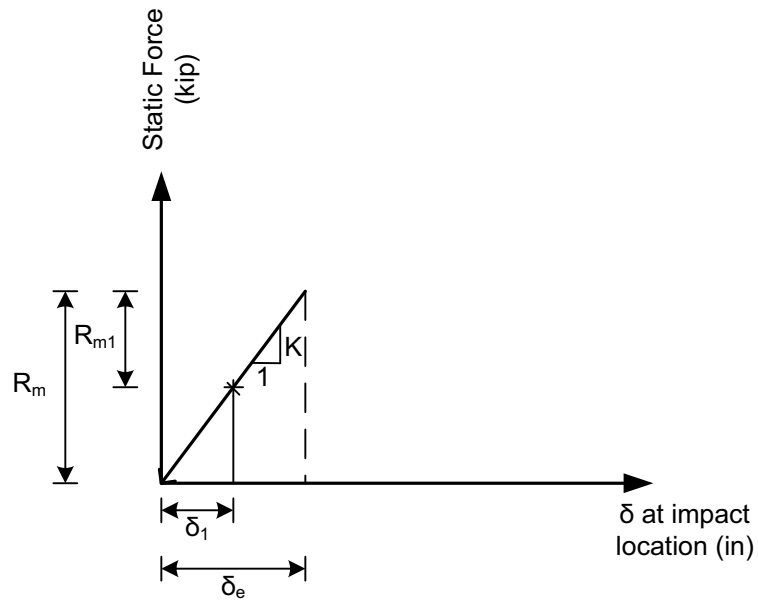
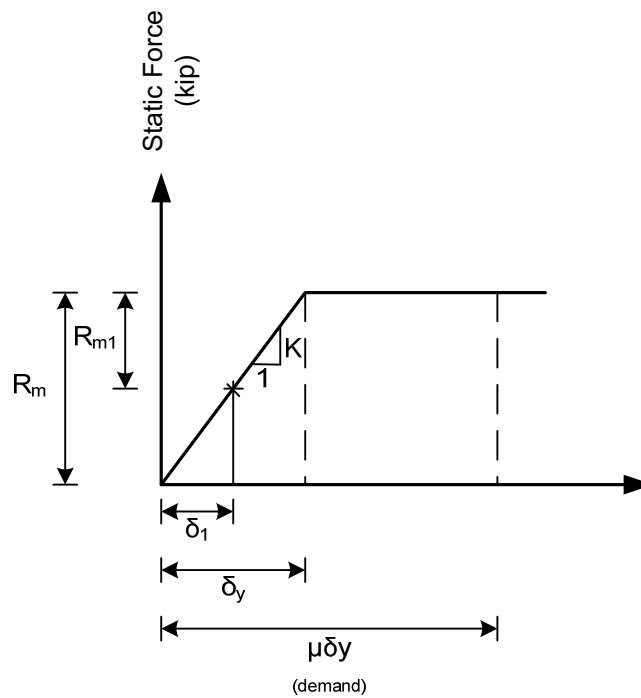


Figure 3H.11-2 Idealized Impact Force Time History for Automobile Missile



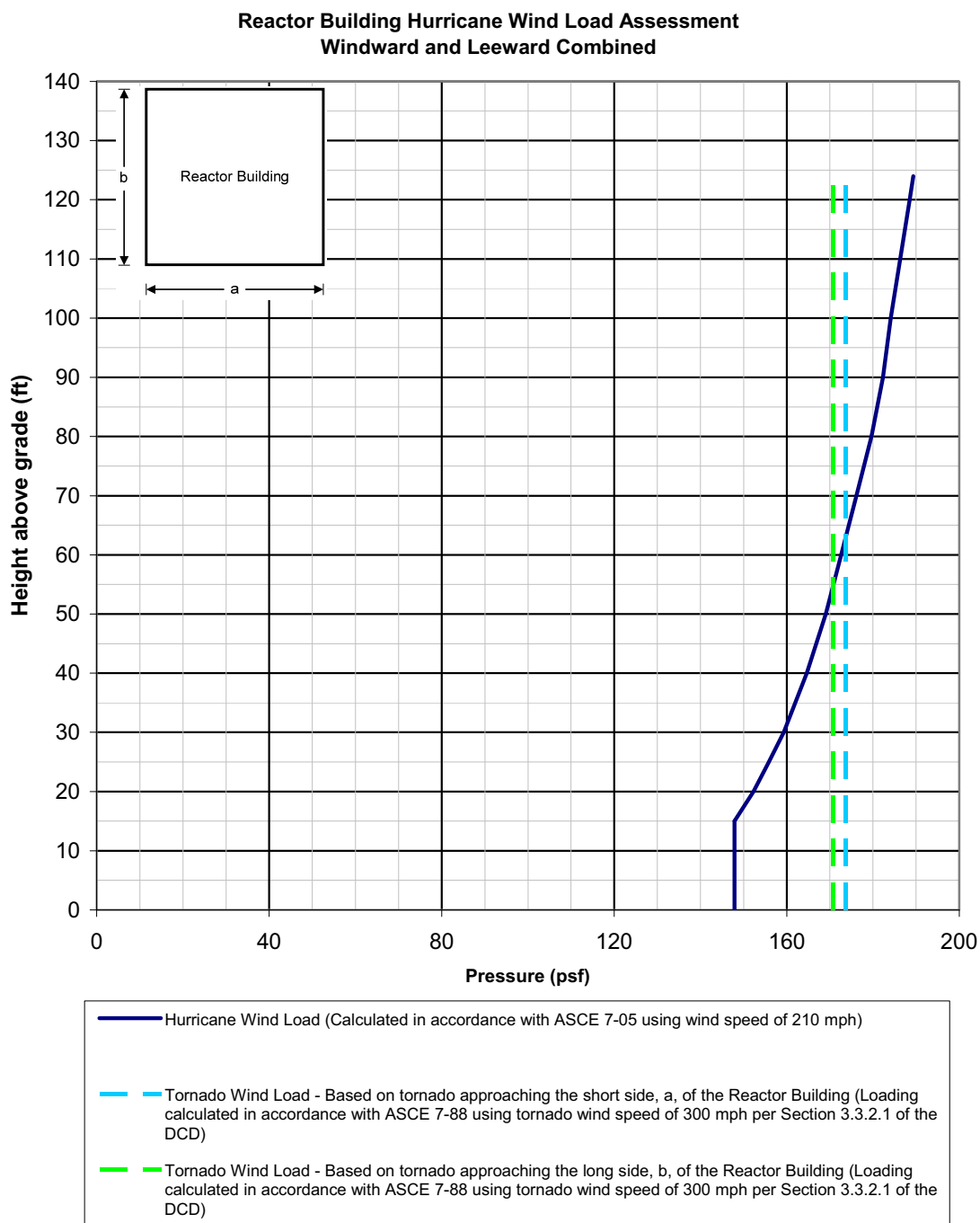
(a) – Response is in Elastic Range



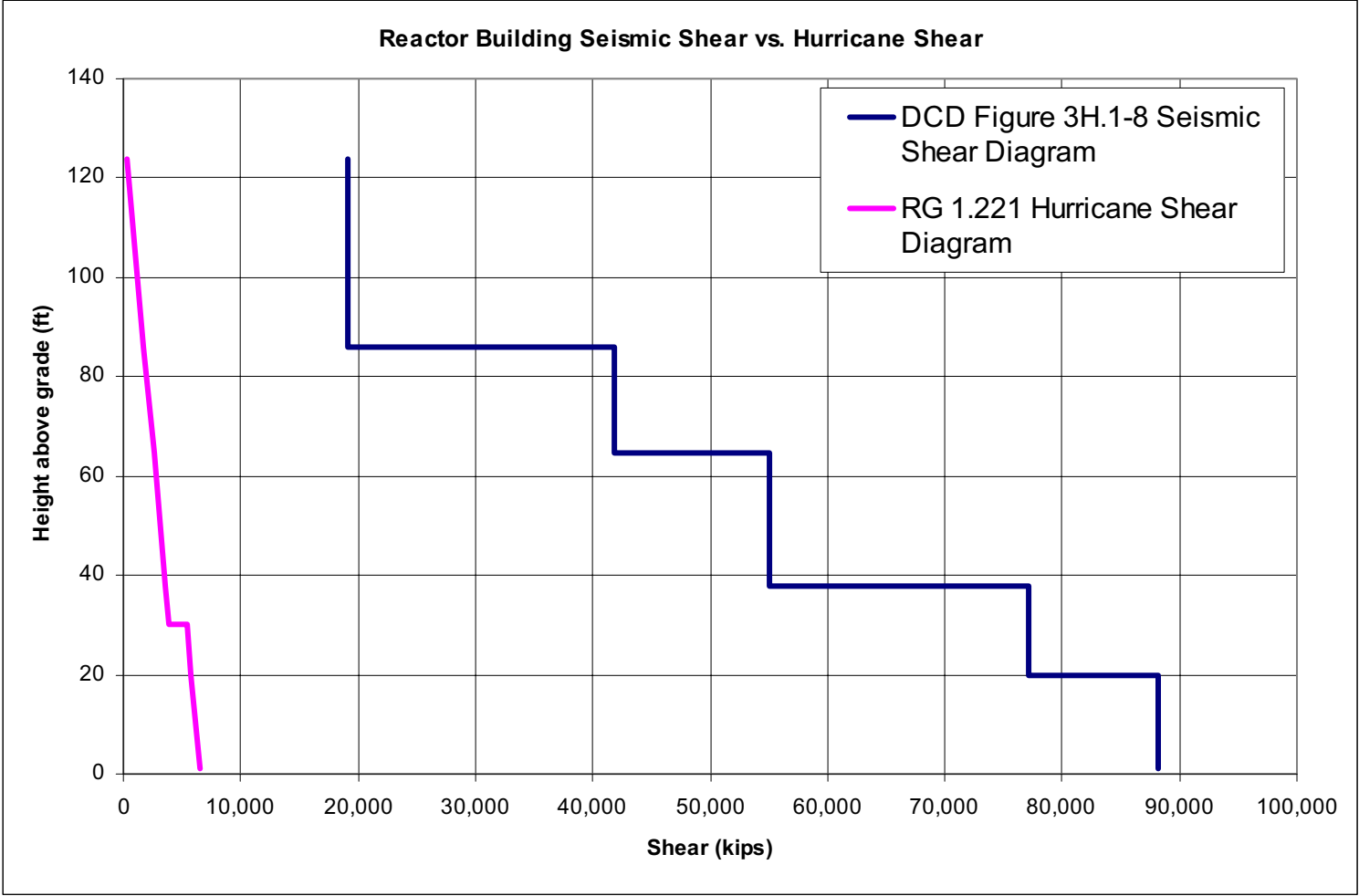
(b) – Response Extends into Plastic Range

**Figure 3H.11-3 Idealized Load-Deflection Diagrams**

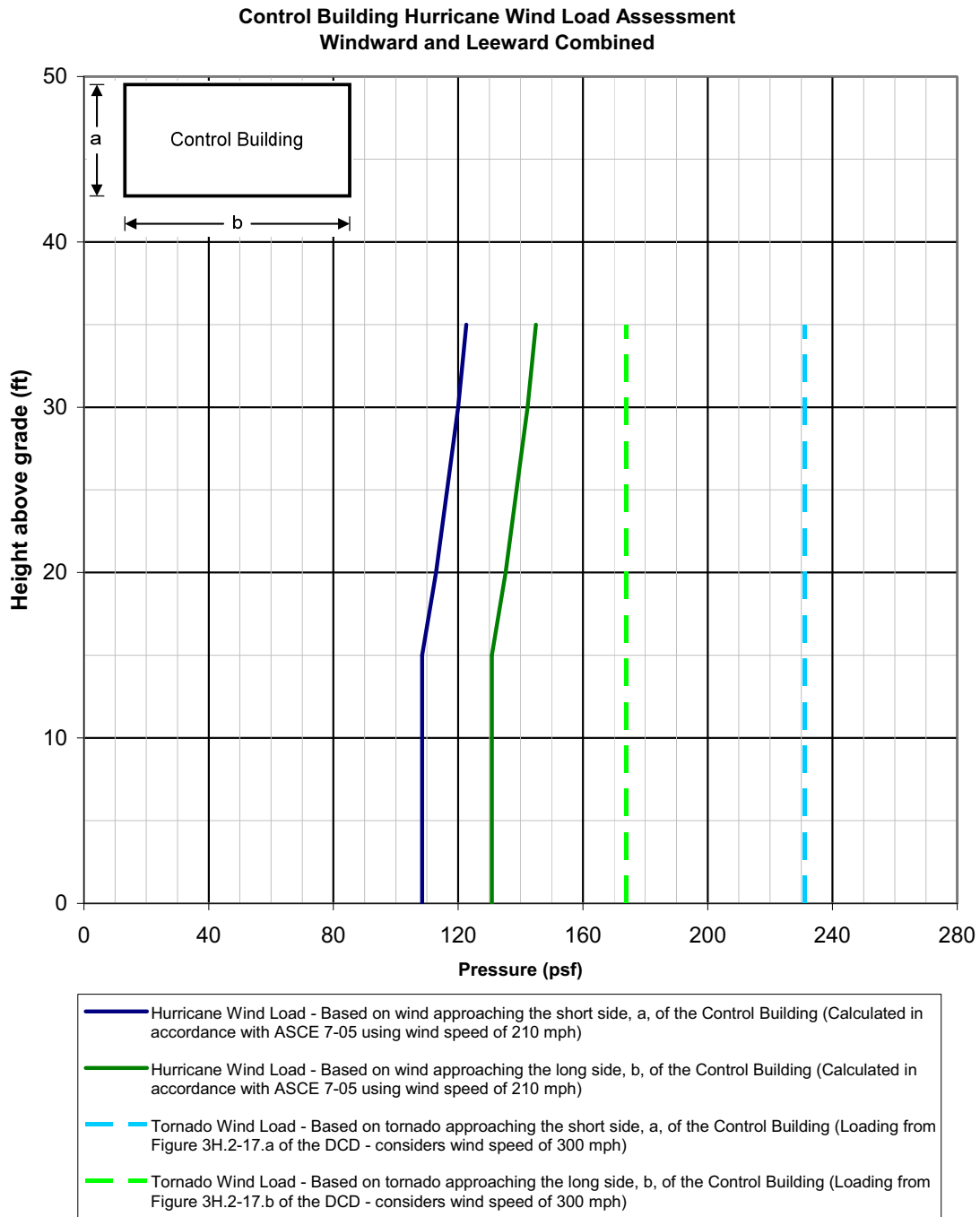




**Figure 3H.11-4 Comparison of Hurricane and Tornado Wind Pressures for Reactor Building**



**Figure 3H.11-5 Comparison of Hurricane and Seismic Shear Forces for Reactor Building**



**Figure 3H.11-6 Comparison of Hurricane and Tornado Wind Pressures for Control Building**

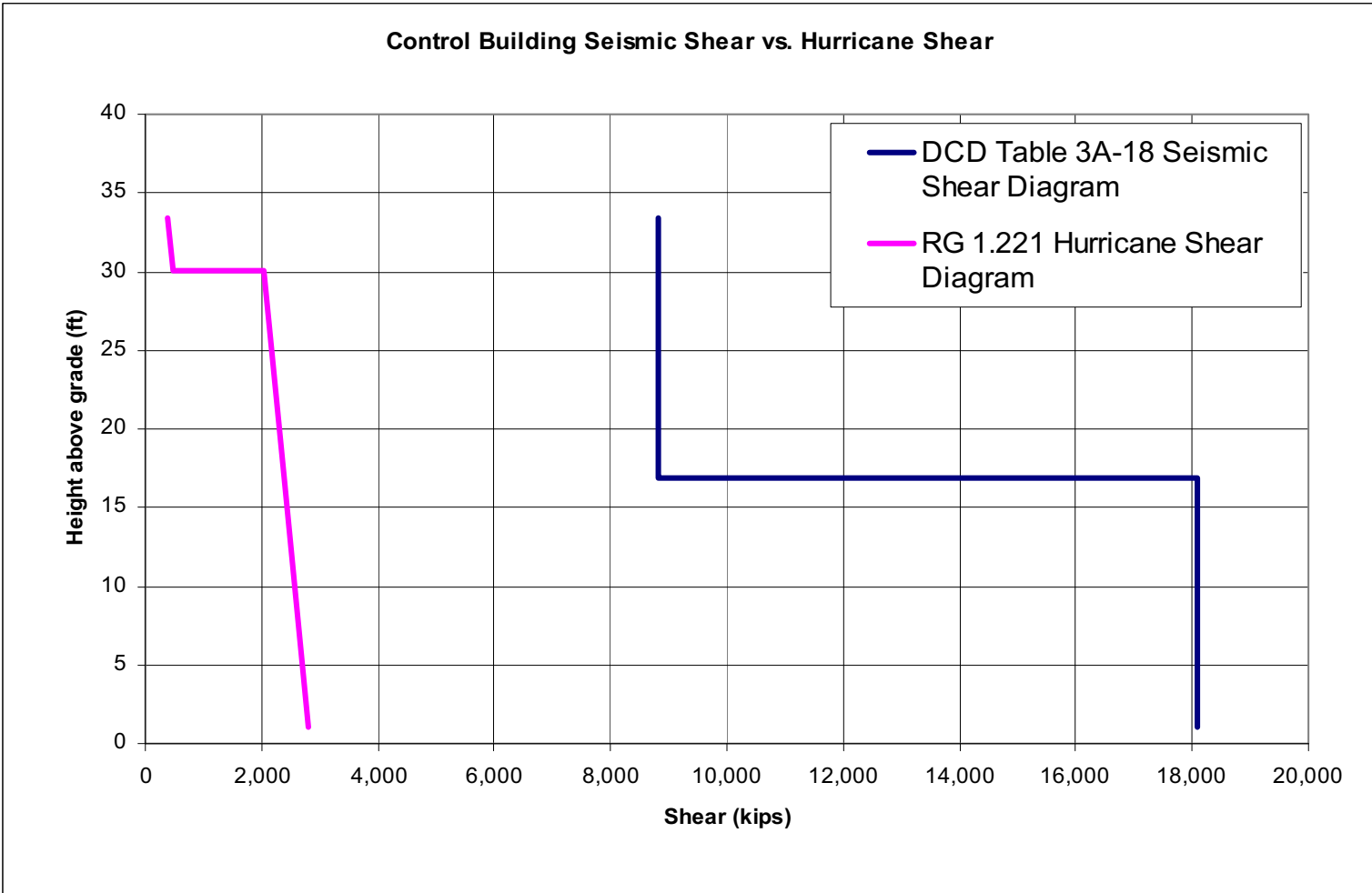
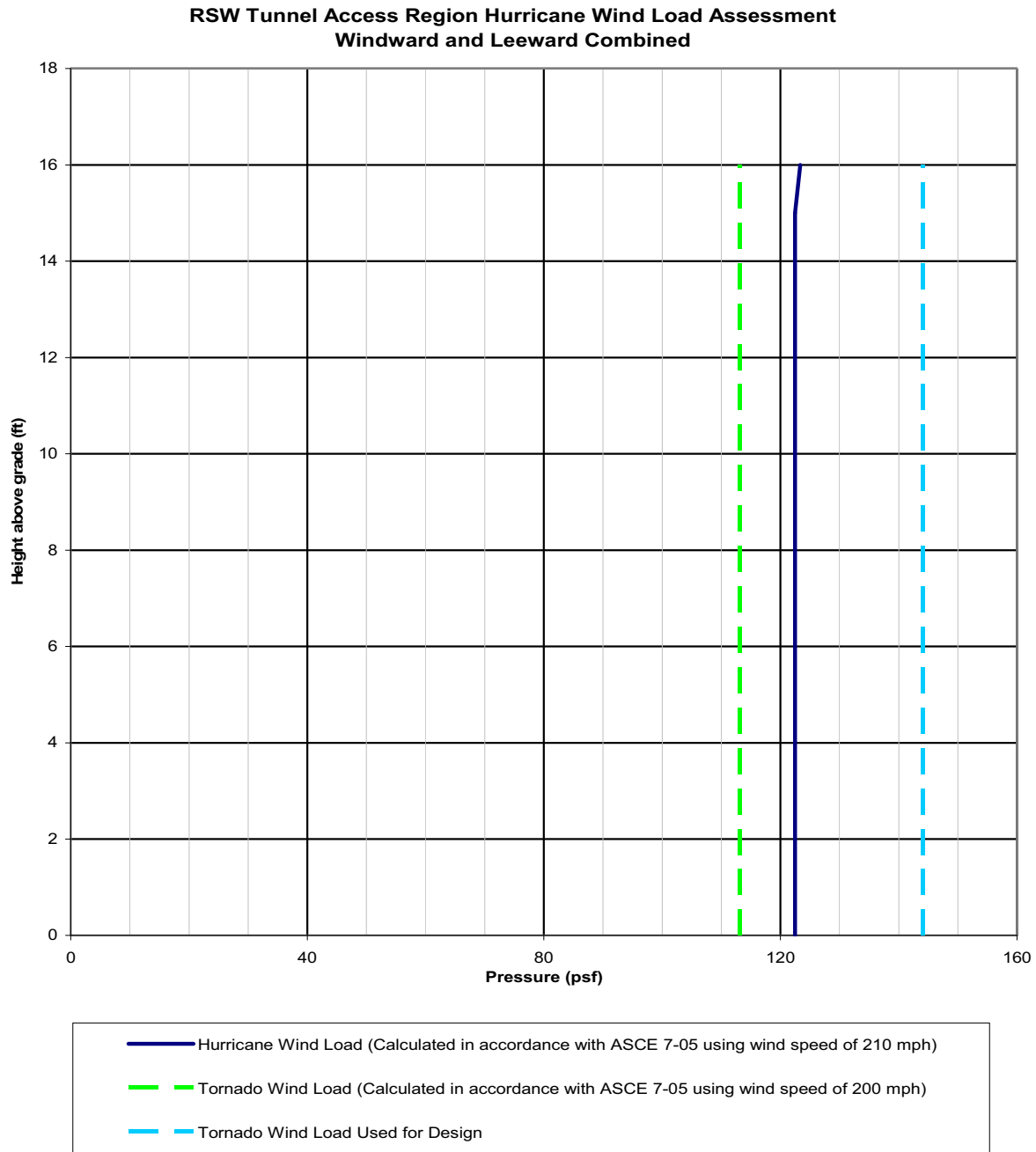
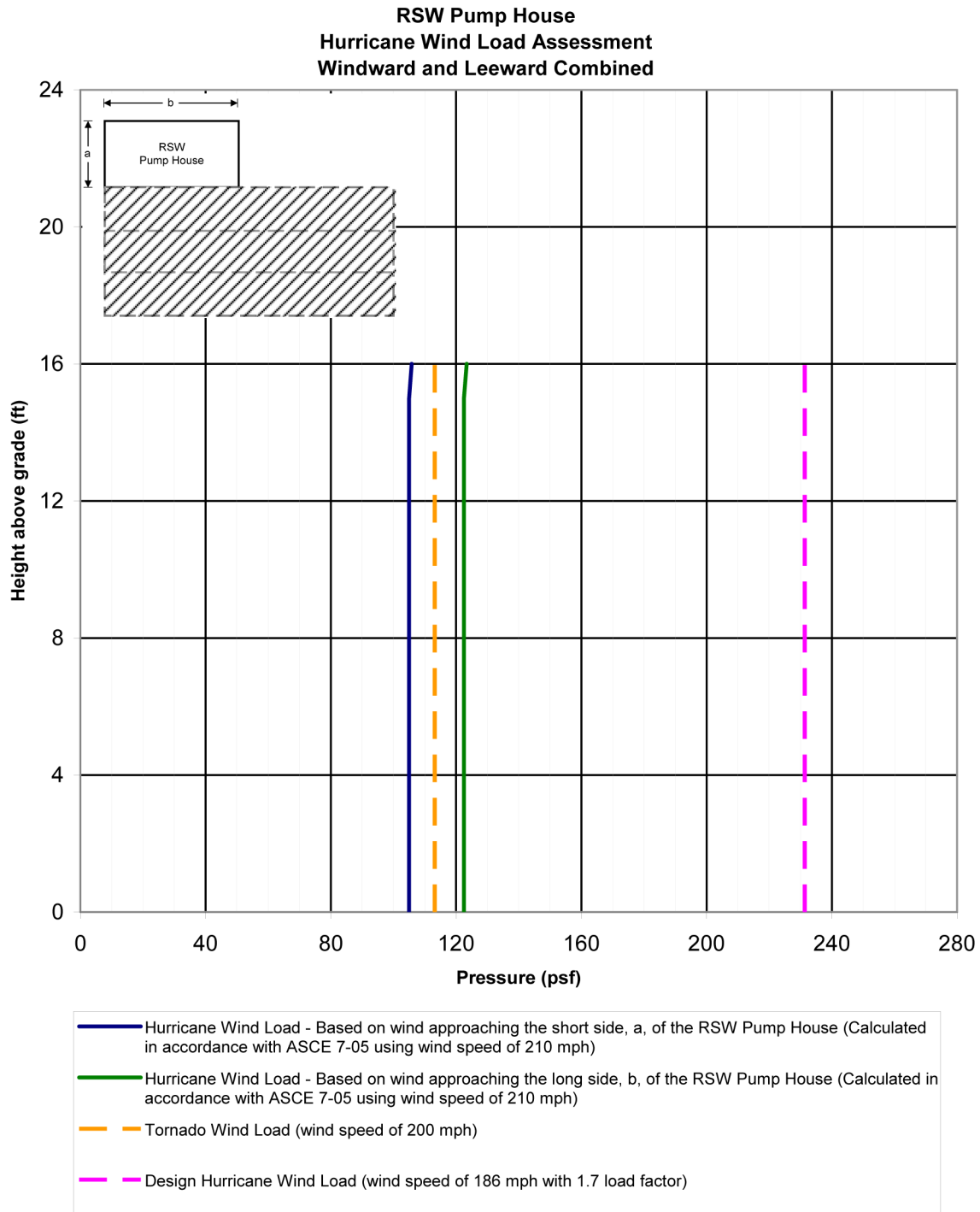


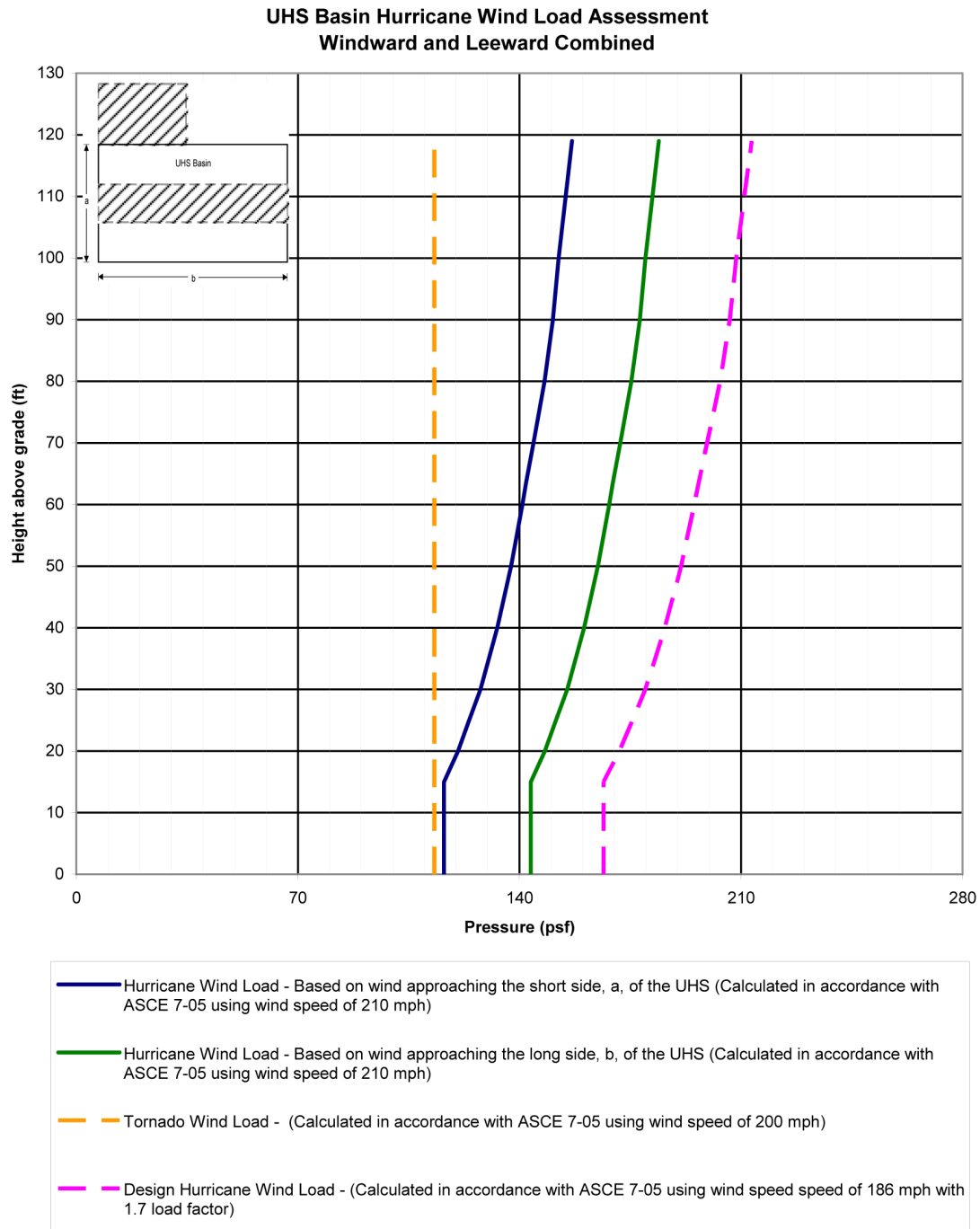
Figure 3H.11-7 Comparison of Hurricane and Seismic Shear Forces for Control Building



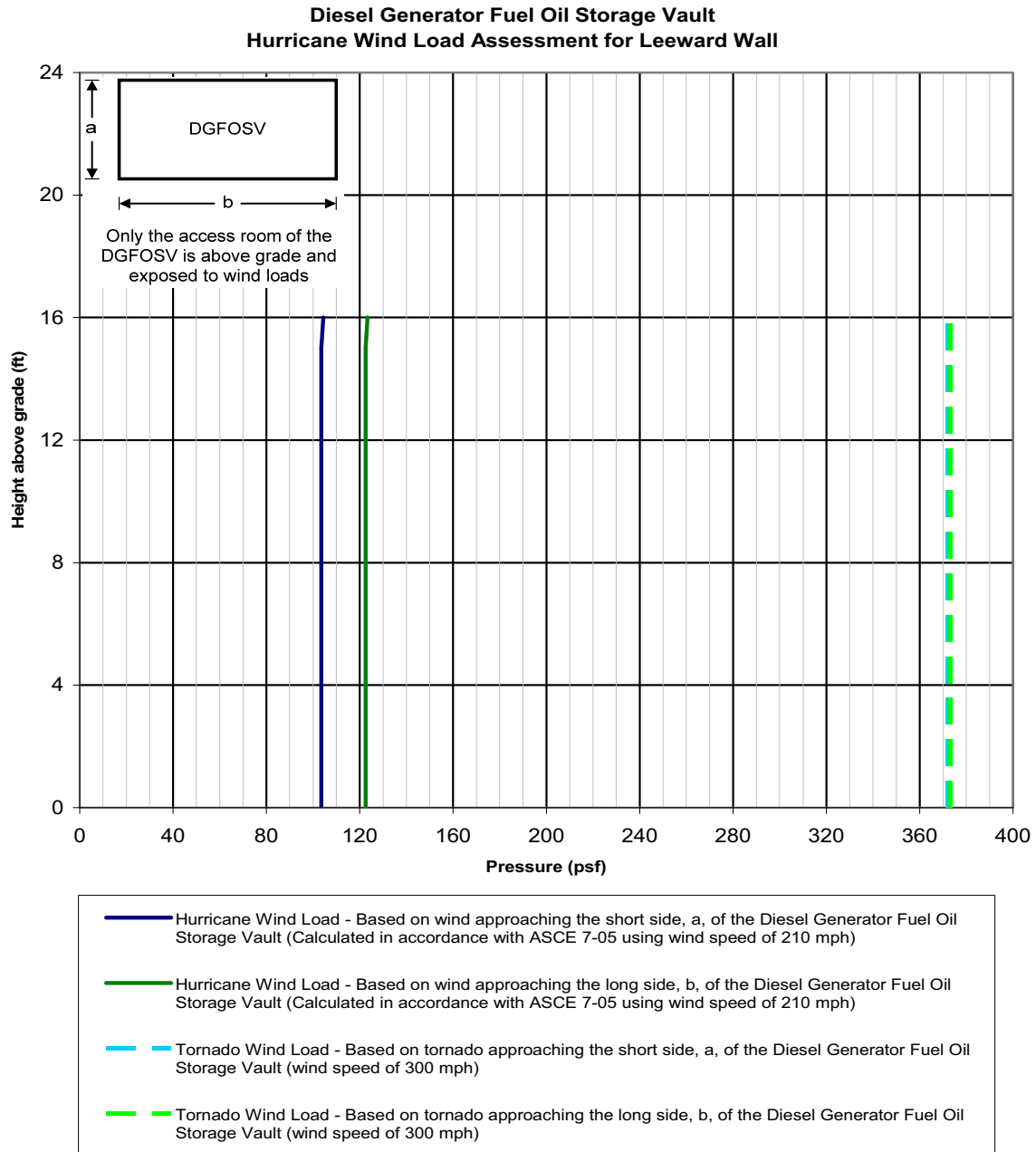
**Figure 3H.11-8 Comparison of Hurricane and Tornado Wind Pressures for RSW Piping Tunnels**



**Figure 3H.11-9 Comparison of Hurricane and Tornado Wind Pressures for RSW Pump House**

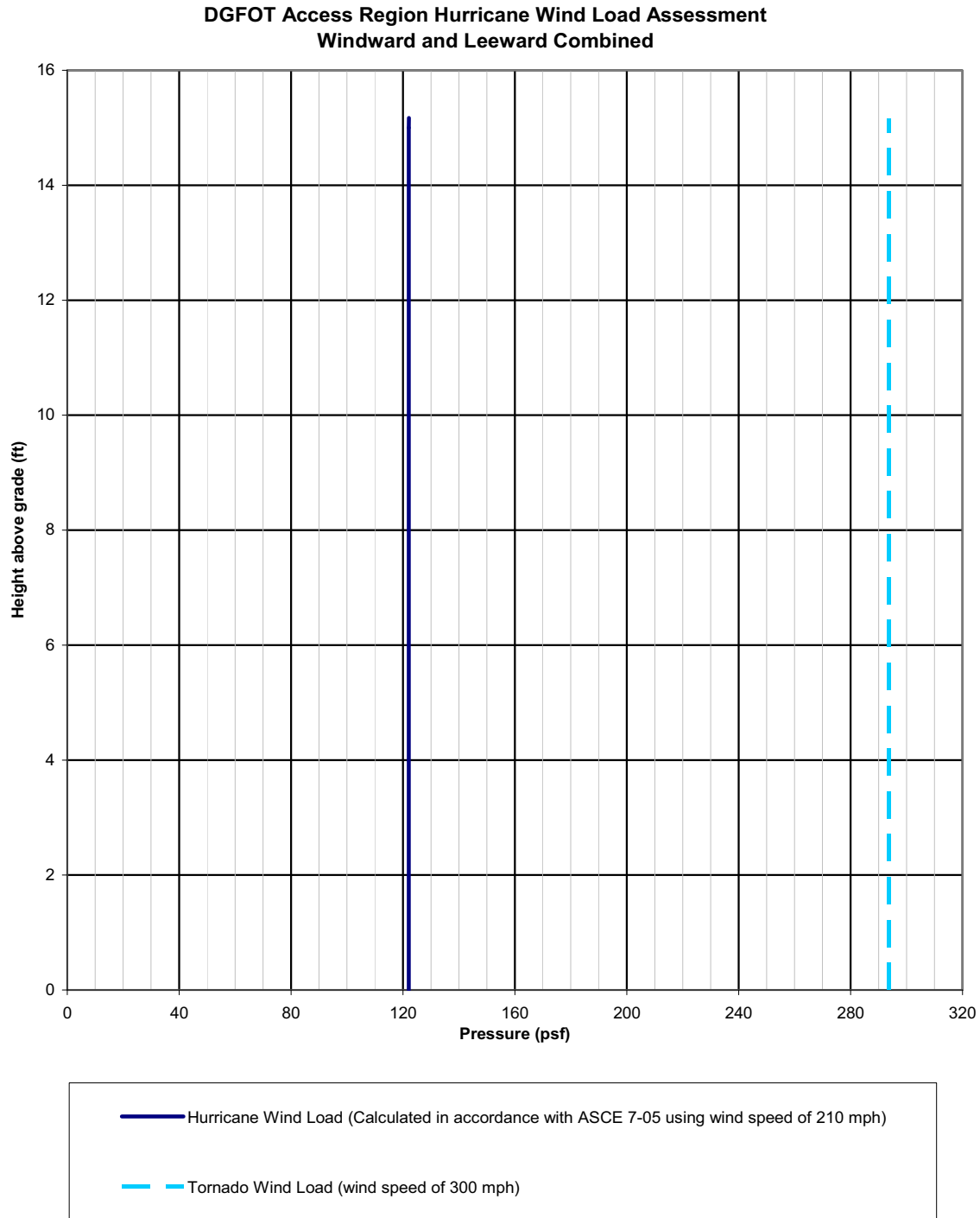


**Figure 3H.11-10 Comparison of Hurricane and Tornado Wind Pressures for UHS Basin and Cooling Towers**



**Figure 3H.11-11 Comparison of Hurricane and Tornado Wind Pressures for Diesel Generator Fuel Oil Storage Vaults**





**Figure 3H.11-12 Comparison of Hurricane and Tornado Wind Pressures for Diesel Generator Fuel Oil Tunnels**