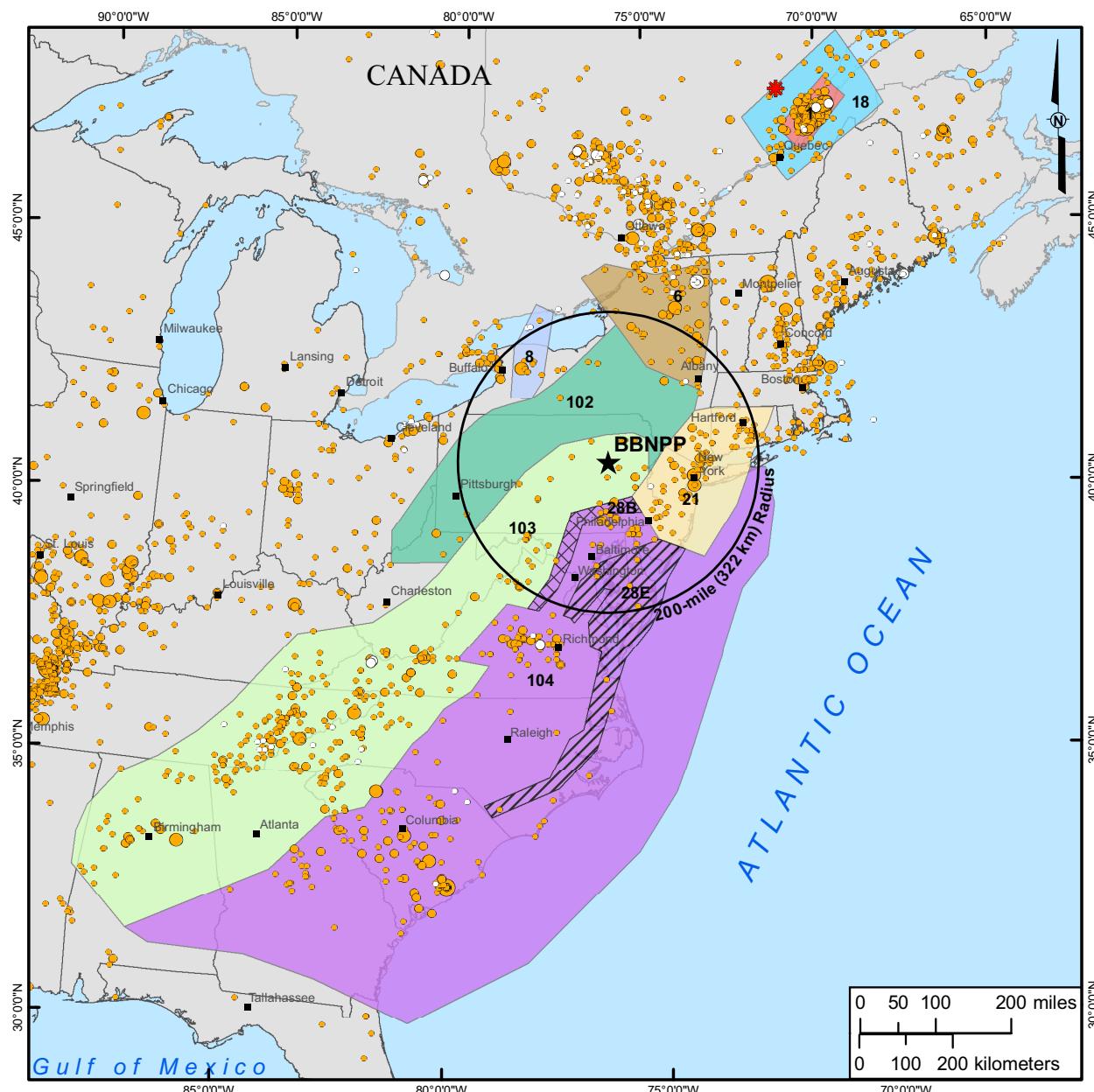


Figure 2.5-106 {Weston Geophysical EPRI Source Zones for Charlevoix Sensitivity Analysis Case 2}



LEGEND

- ★ Center Point of Proposed Bell Bend NPP (BBNPP)
- City
- NPP Reactor 200-mile (322 km) Radius

Earthquakes by Magnitude, mb (SEE NOTE) USGS 2001 USGS 2002 to 2007

- | | |
|-------------|-------------|
| • 3.0 - 3.9 | ○ 3.0 - 3.9 |
| ● 4.0 - 4.9 | ○ 4.0 - 4.9 |
| ○ 5.0 - 5.9 | ○ 5.0 - 5.9 |
| ○ 6.0 - 6.9 | |
| ● 7.0 - 7.9 | |

NOTE: The 2002 to 2007 seismicity shown in 625-mile (1000 km) radius.

Weston Geophysical Sources contributing to 99% of BBNPP Site Hazard

- 1 Charlevoix - La Malbaie Seismic Zone
- 6 Adirondack Mountains
- 8 Clarendon-Linden
- 21 New York Nexus
- 28B Zone of Mesozoic Basin
- 28E Zone of Mesozoic Basin
- 102 Appalachian Plateau Background
- 103 Southern Appalachian Background
- 104 Southern Coastal Plain Background
- 18 Zone 18

* Saguenay Earthquake

REFERENCES:

- ESRI. 2007.
- USGS 2007.
- ANSS, 2007.
- EPRI Volume V: Weston Geophysical, 1986.

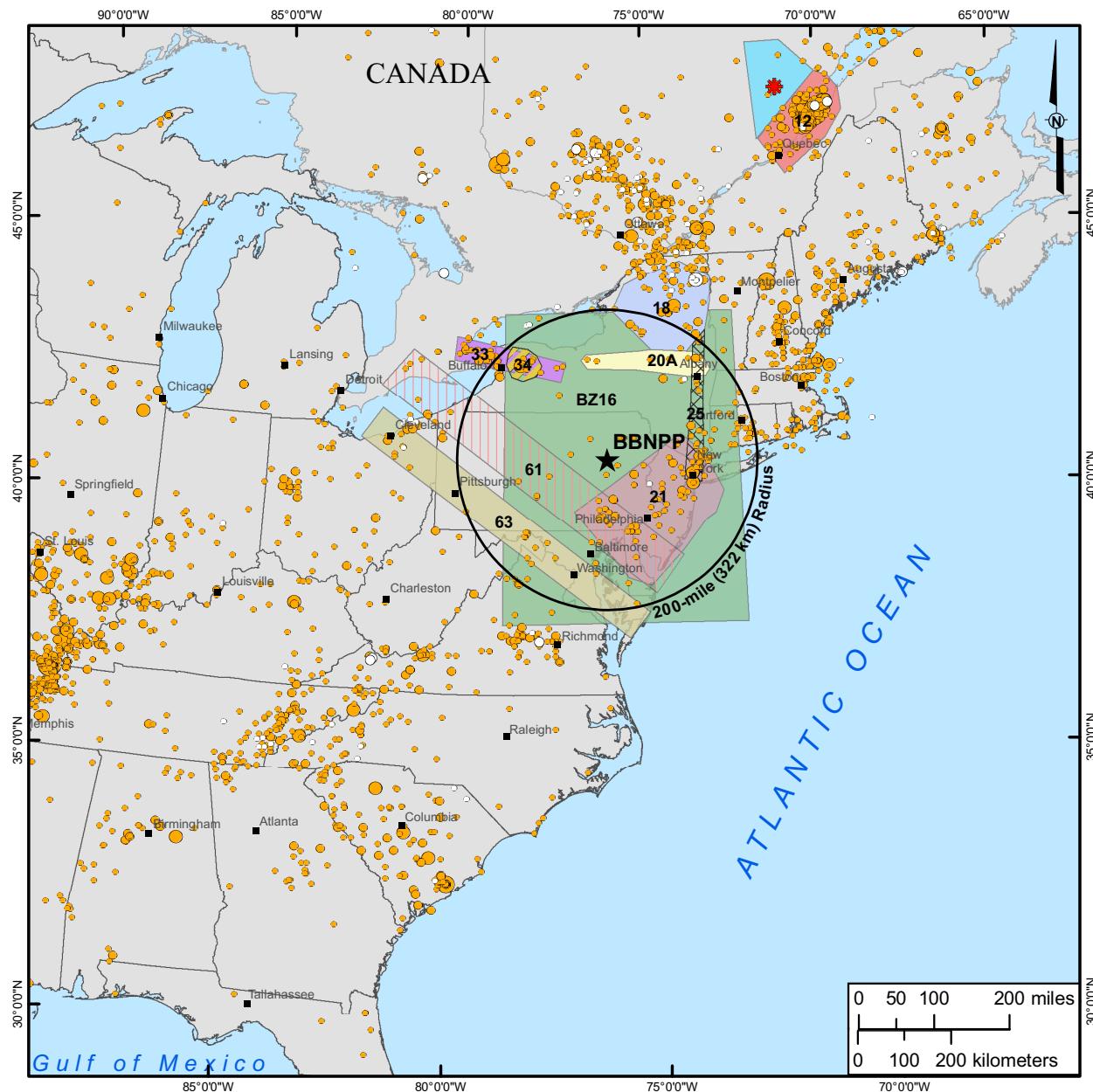
Figure 2.5-107 {Woodward-Clyde EPRI Source Zones for Charlevoix Sensitivity Analysis Case 2}

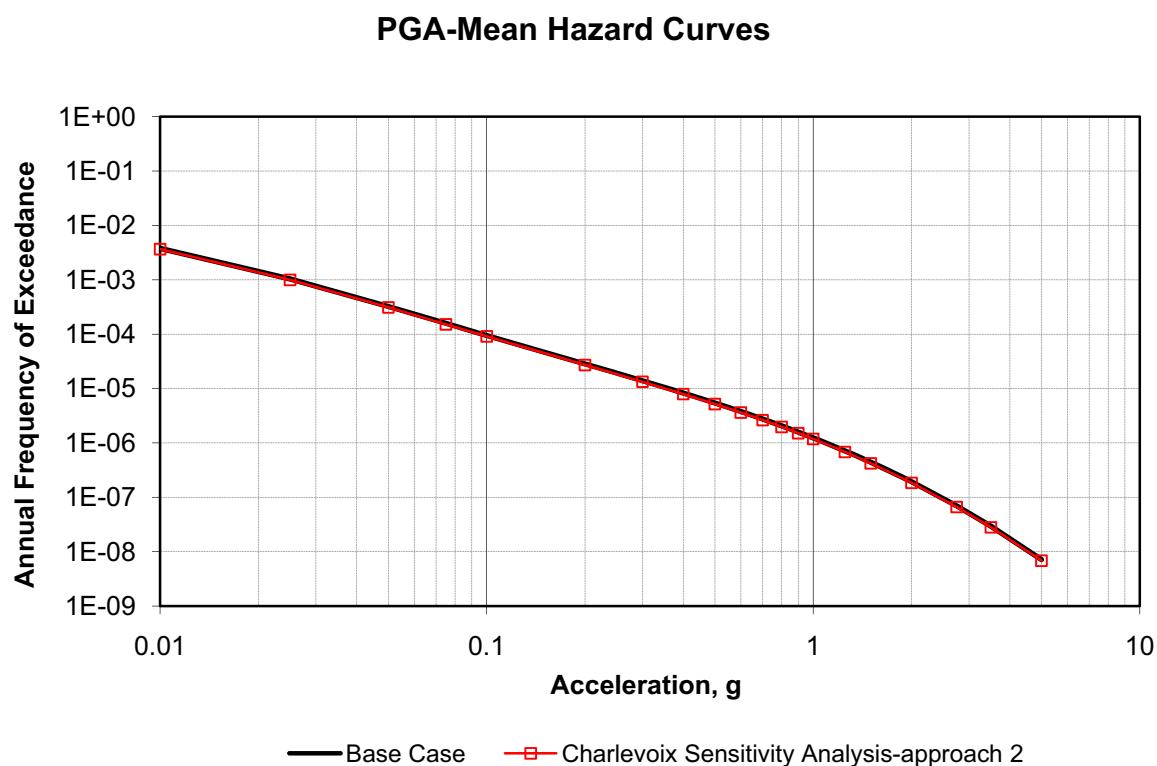
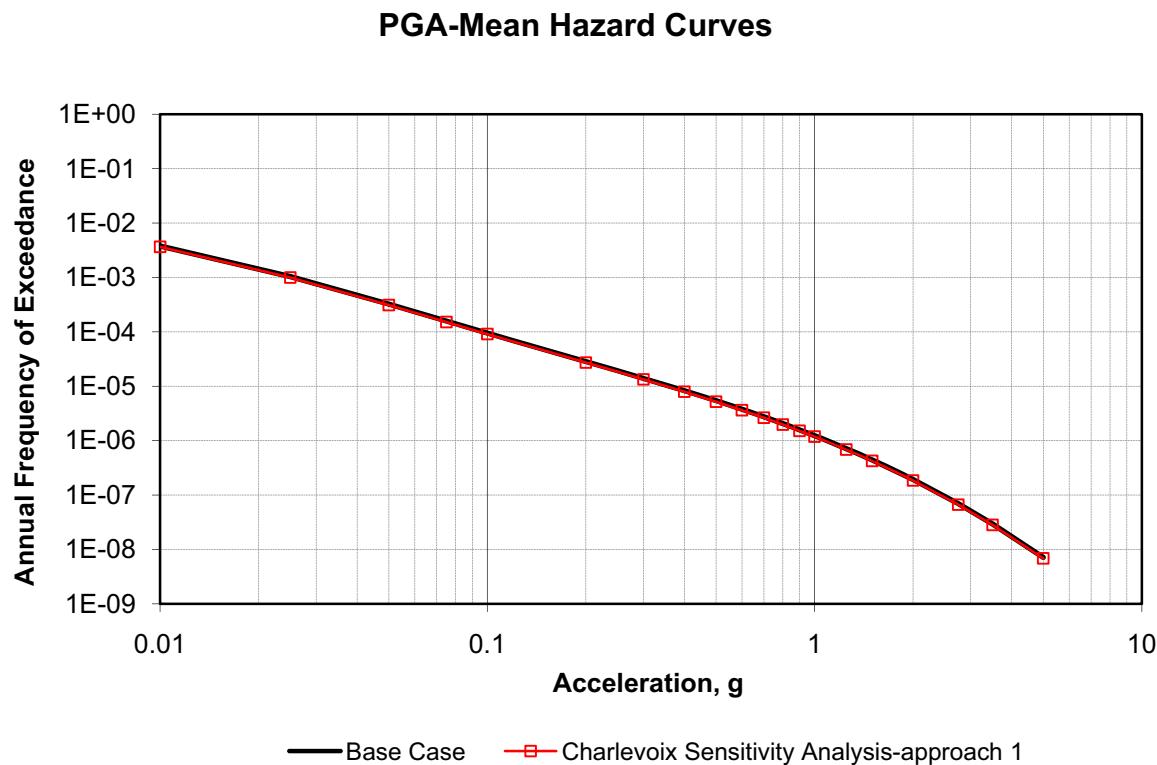
Figure 2.5-108 {Comparison of PGA Mean Hazard Curves for Charlevoix Sensitivity Analysis}

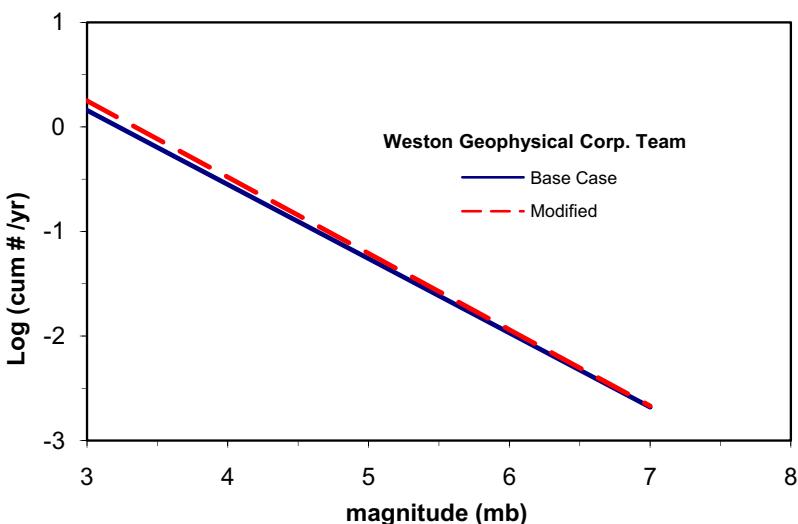
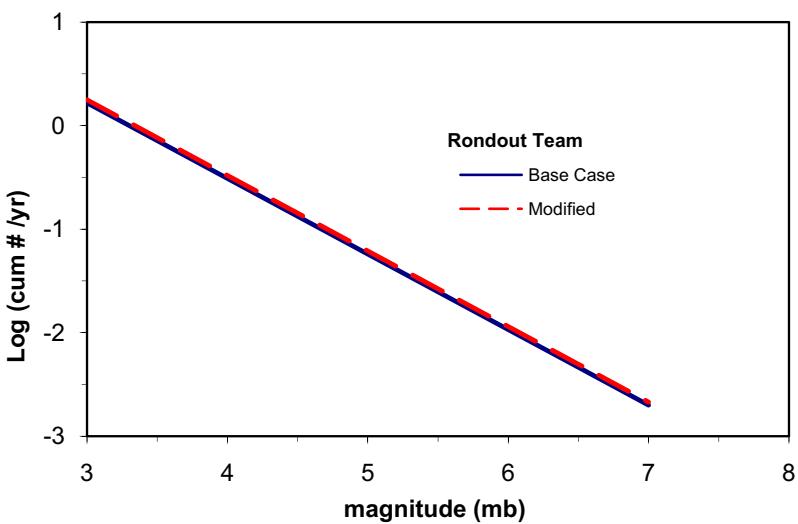
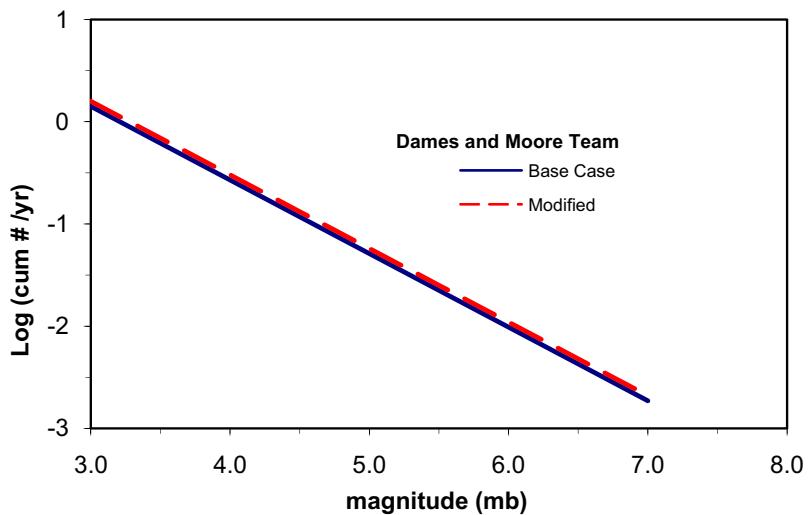
Figure 2.5-109 {Seismicity Rates Charlevoix Sensitivity Analysis}

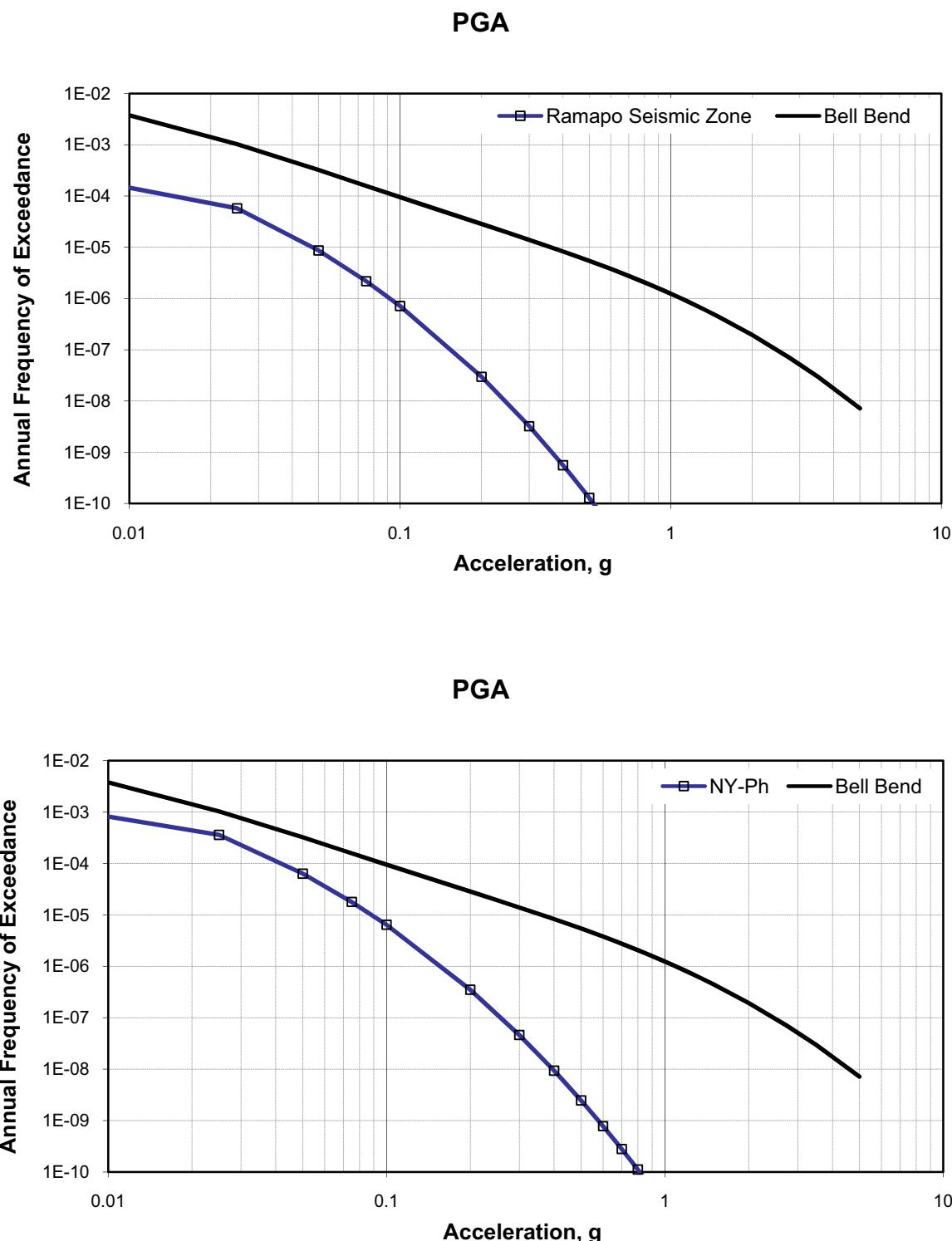
Figure 2.5-110 {Hazard Curves Sensitivity Study of the Ramapo Fault System}

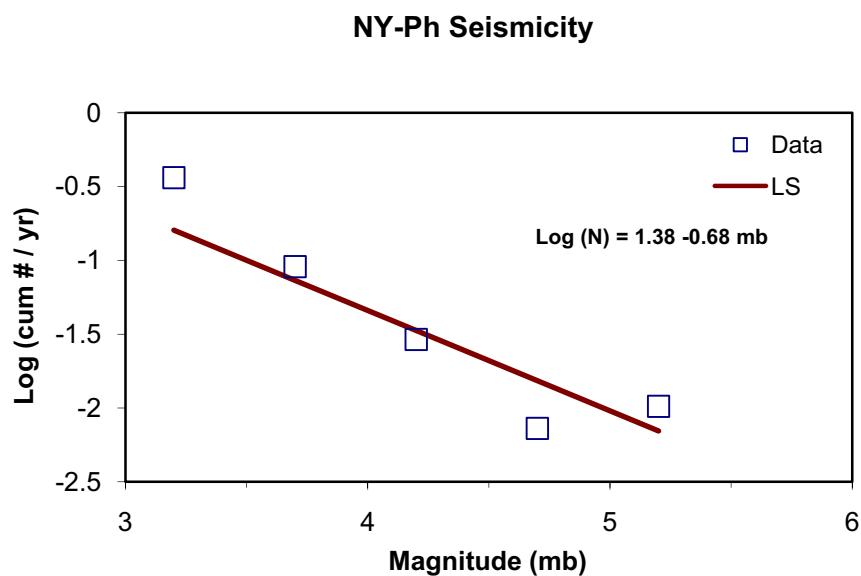
Figure 2.5-111 {Seismicity Rates of the Ramapo Fault System}

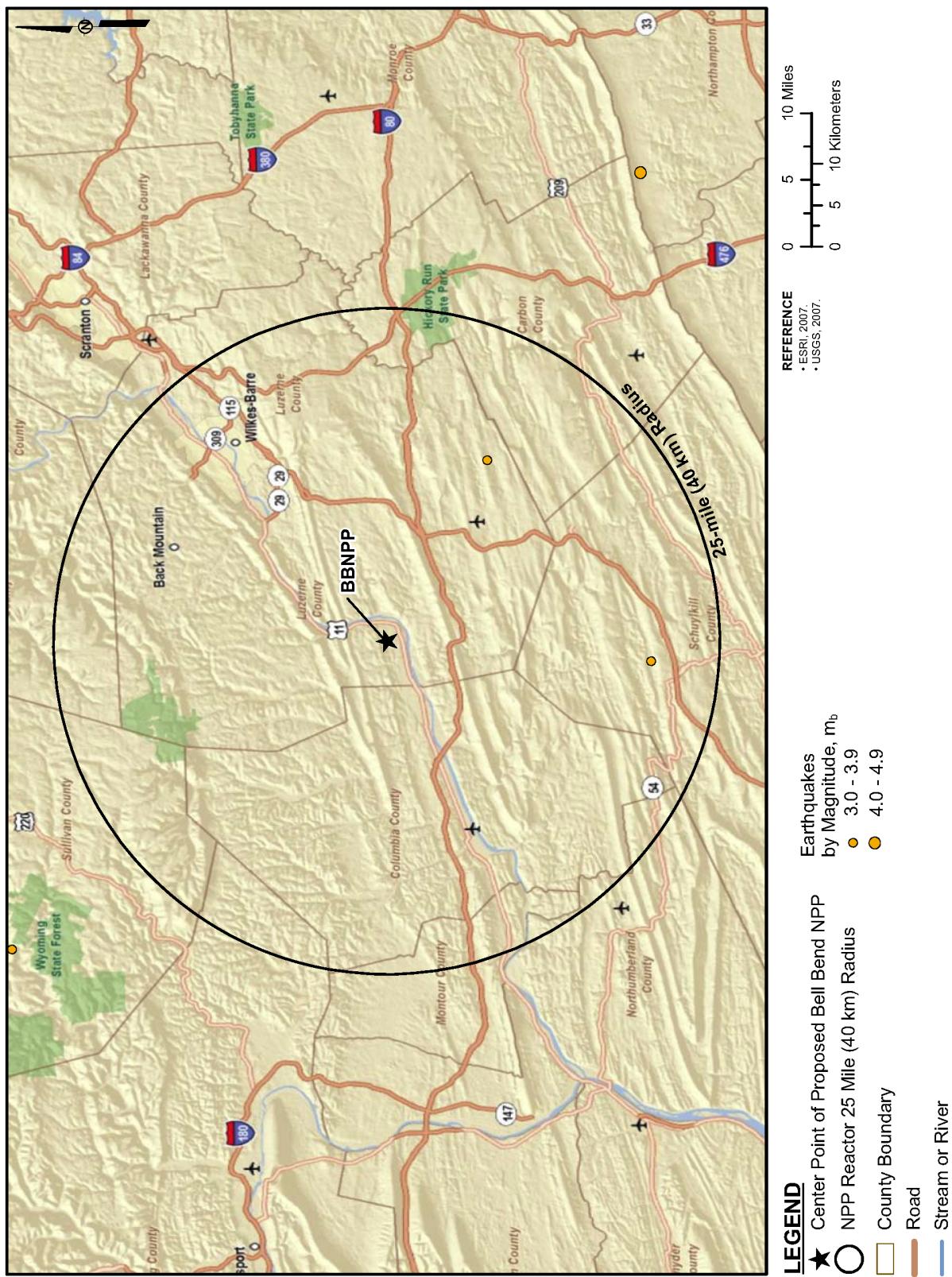
Figure 2.5-112 {Earthquake Epicenters Map 25-mile (40 km) radius}

Figure 2.5-113 {Map Showing the Location of the Appalachian Basin Cross Section}

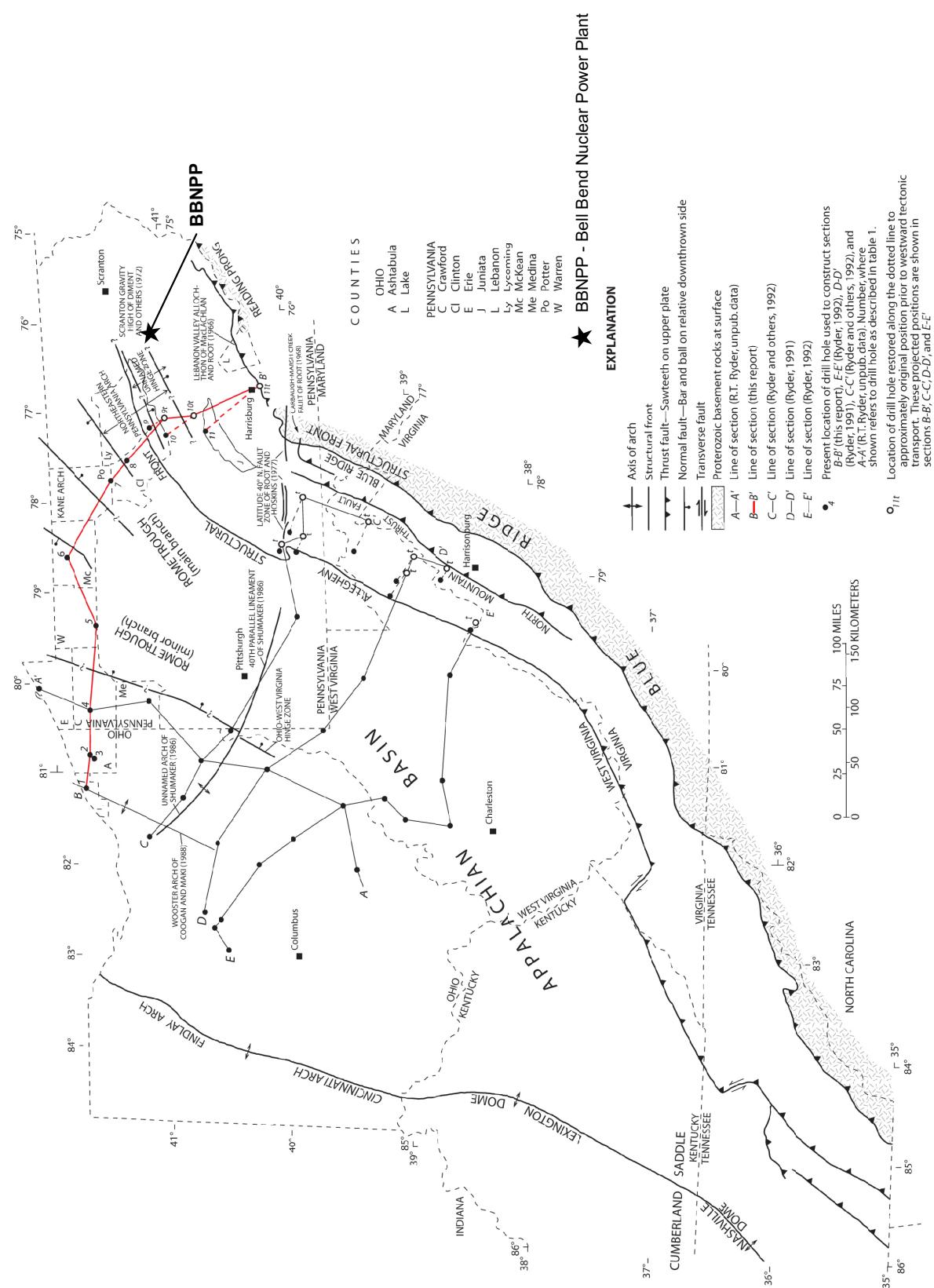
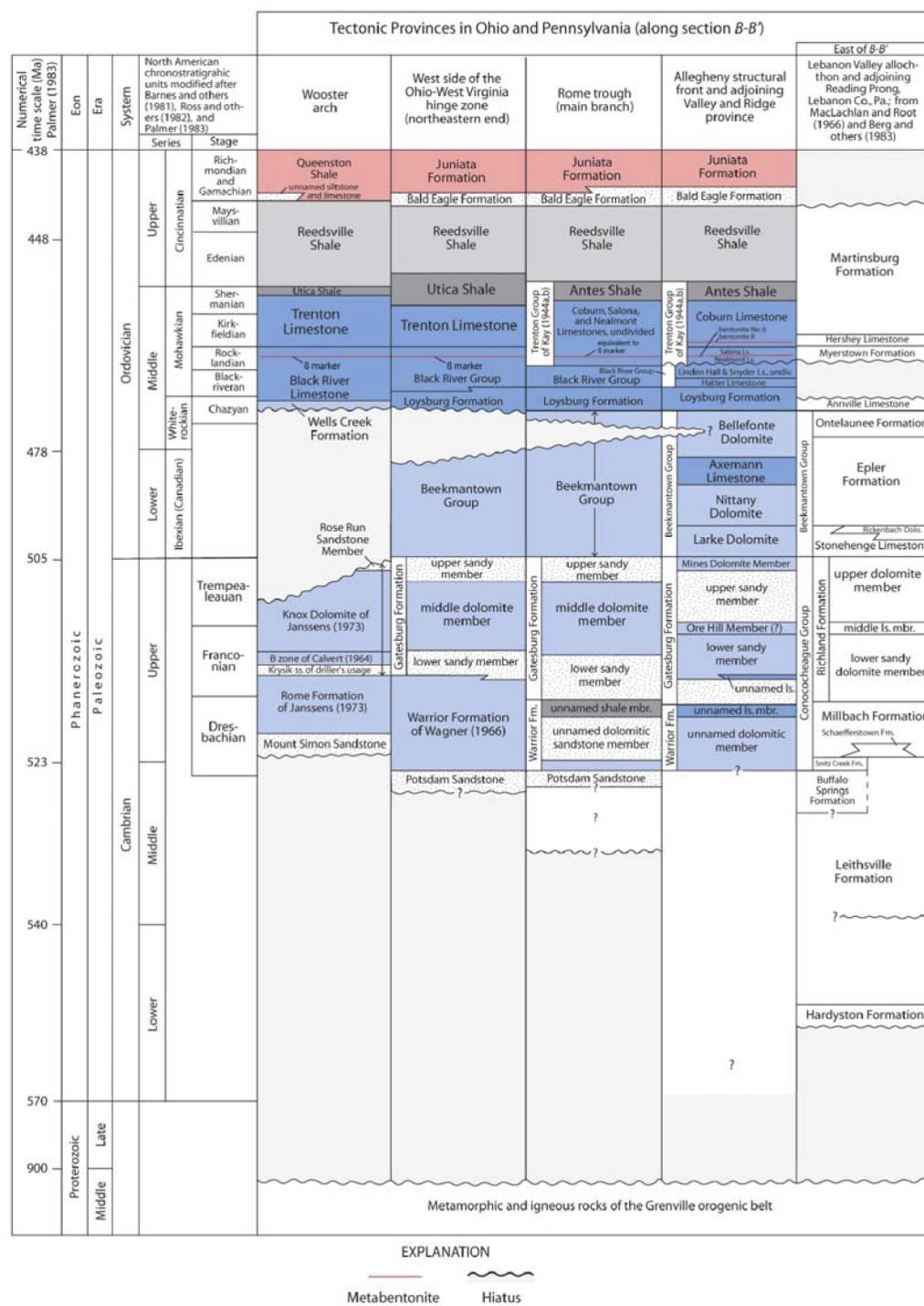


Figure 2.5-114 {Stratigraphic Correlation Chart of Appalachian Basin}

REFERENCE:

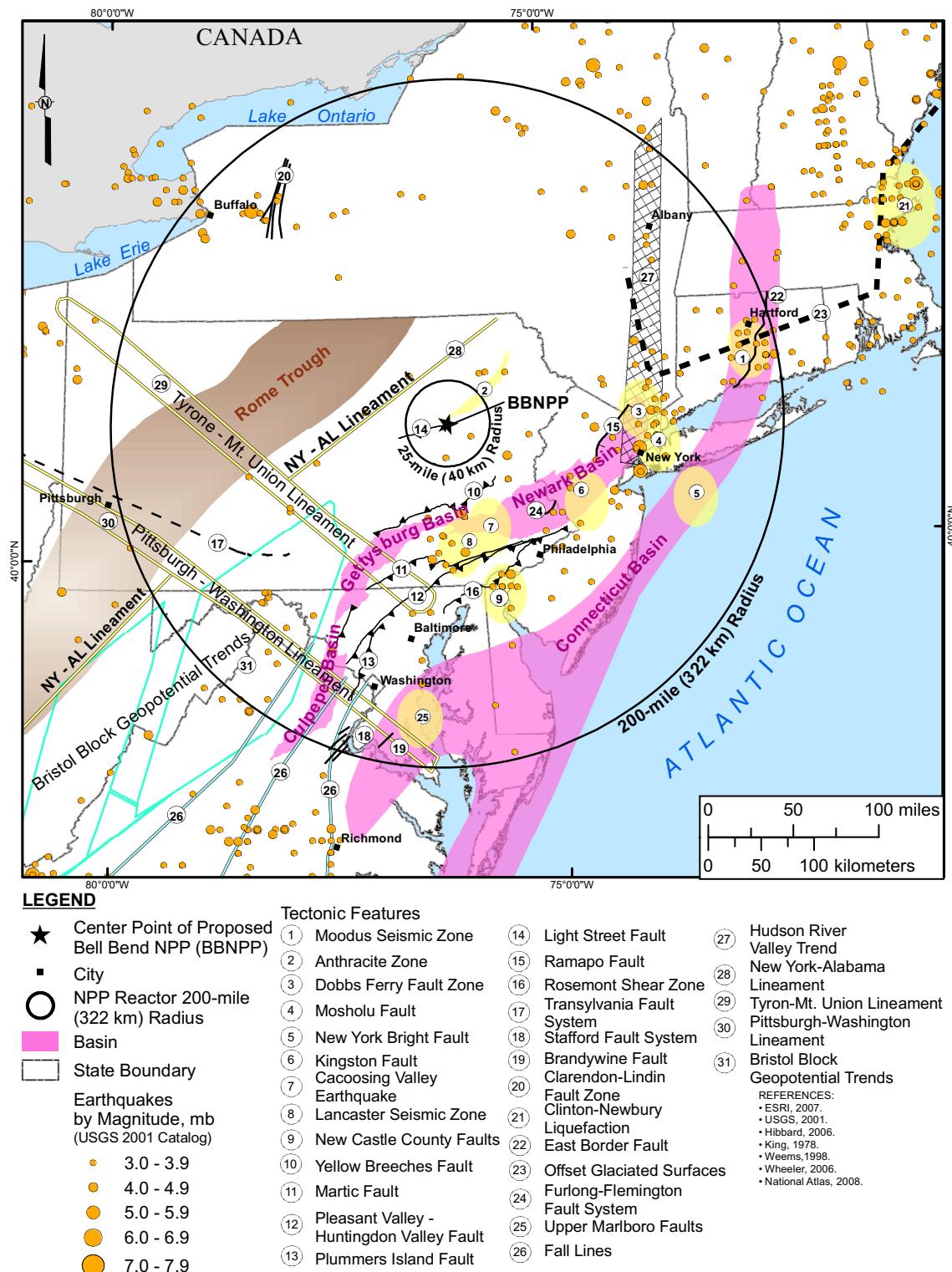
Figure 2.5-115 {Tectonic Features}

Figure 2.5-116 {Site Geotechnical Investigation Plan}



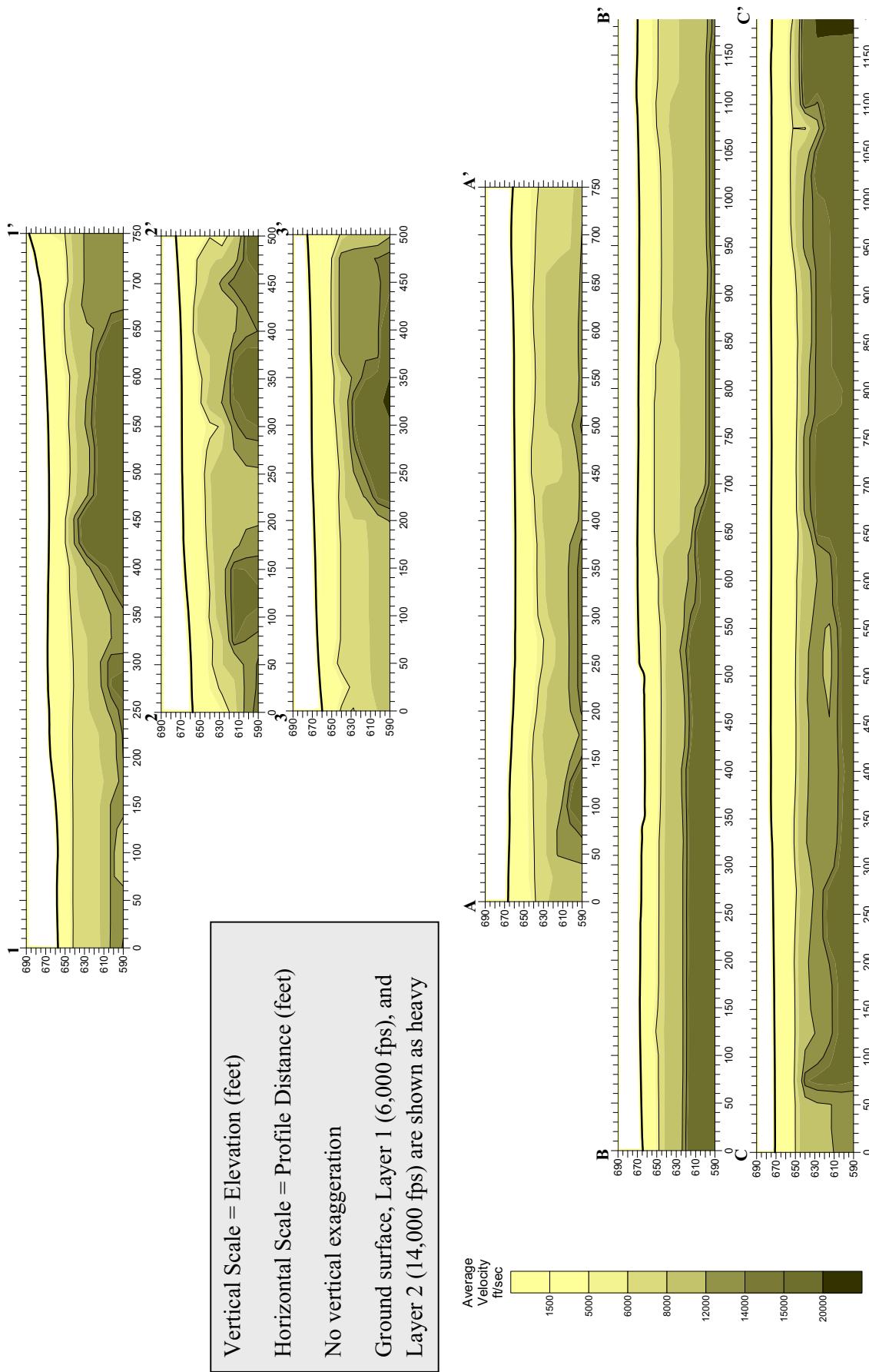
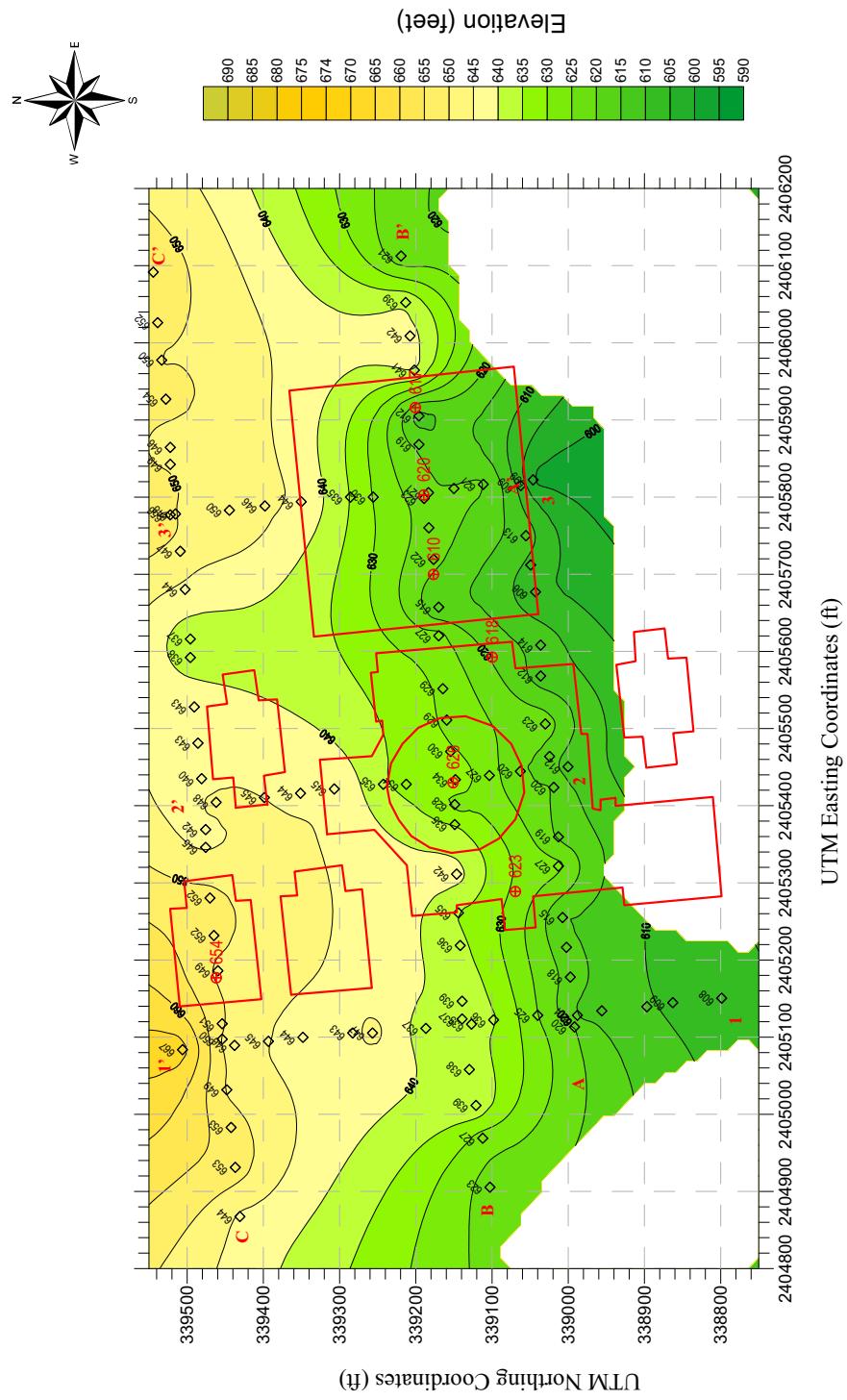
Figure 2.5-117 {Seismic Velocity Contours}

Figure 2.5-118 {Bedrock Elevation Contour Map}

REFERENCE:
•Weston, 2008

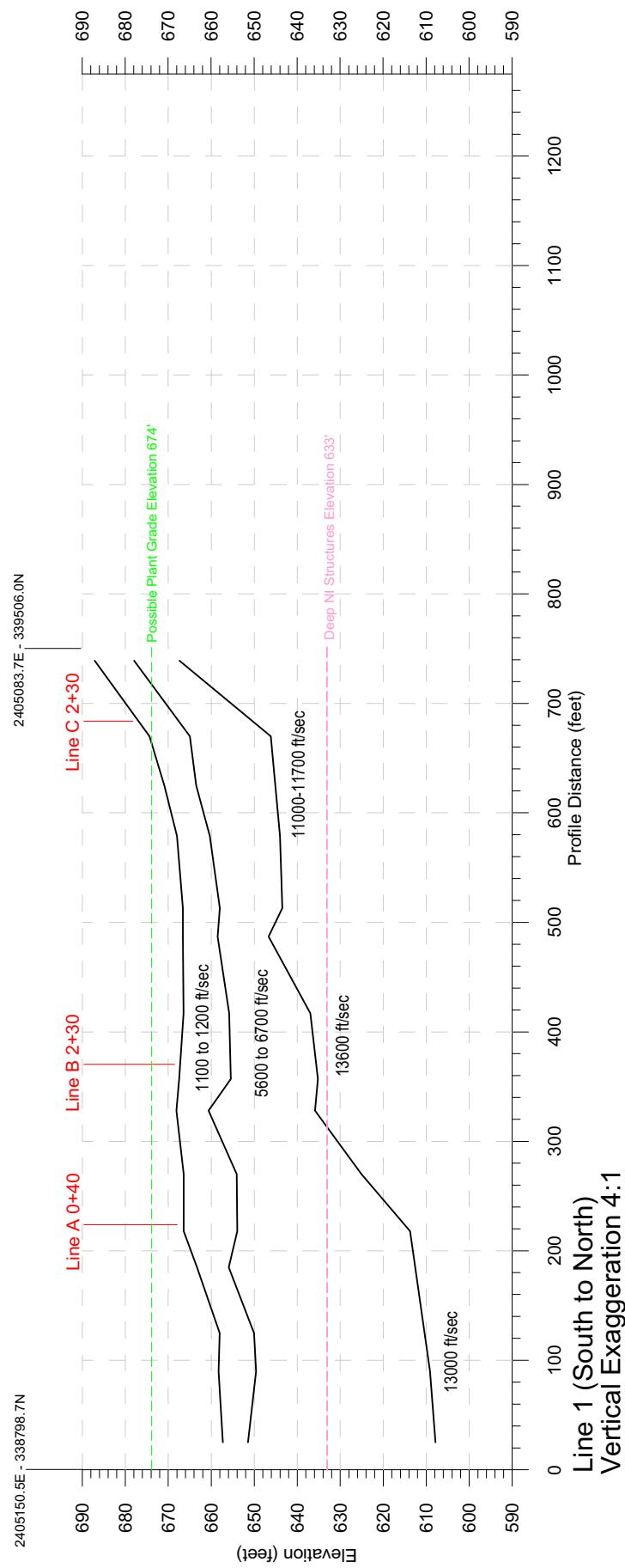
Figure 2.5-119 {Refraction Survey Page 1 of 6}

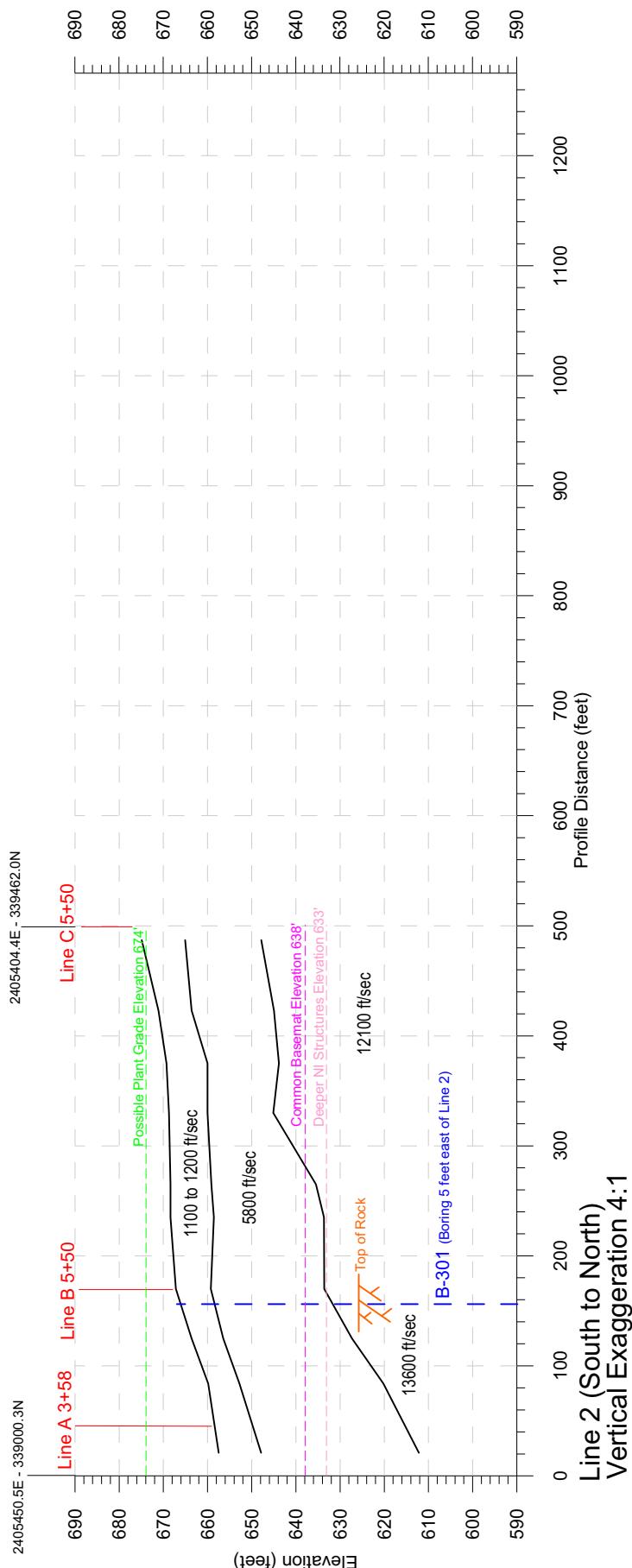
Figure 2.5-120 {Refraction Survey Page 2 of 6}

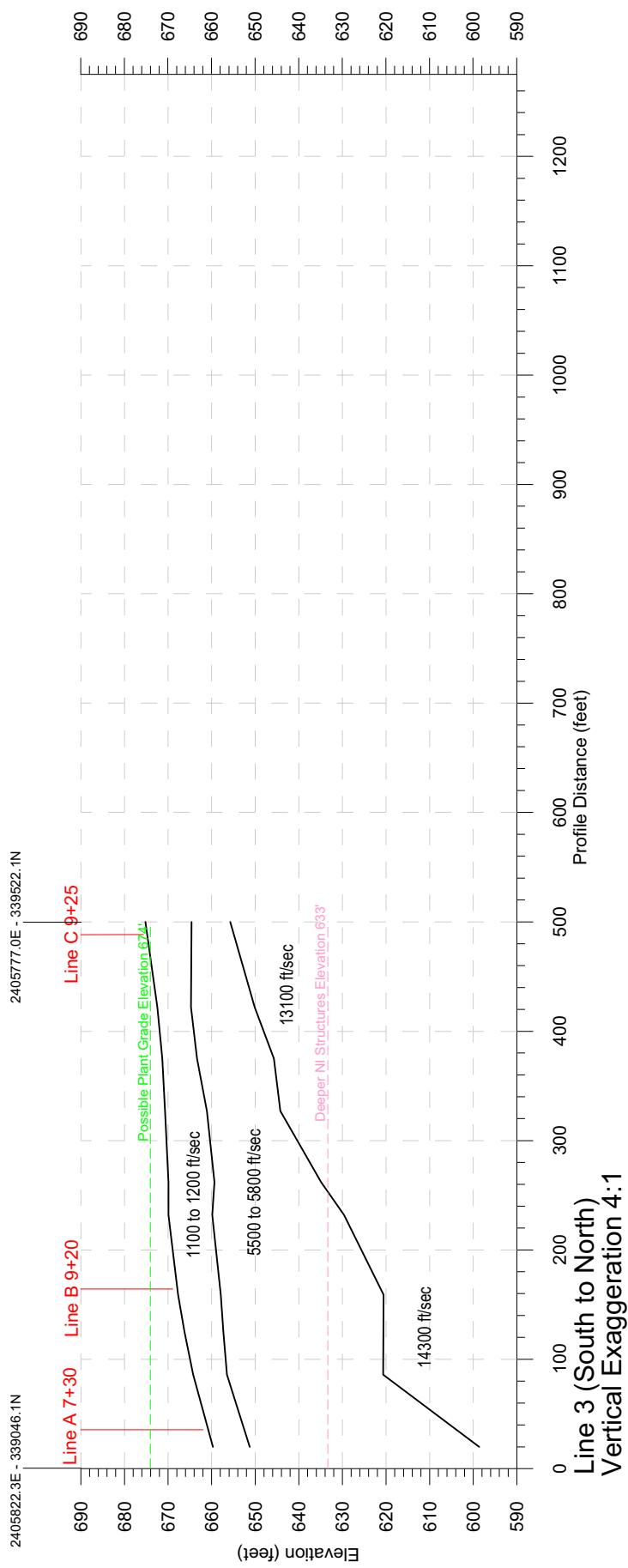
Figure 2.5-121 {Refraction Survey Page 3 of 6}

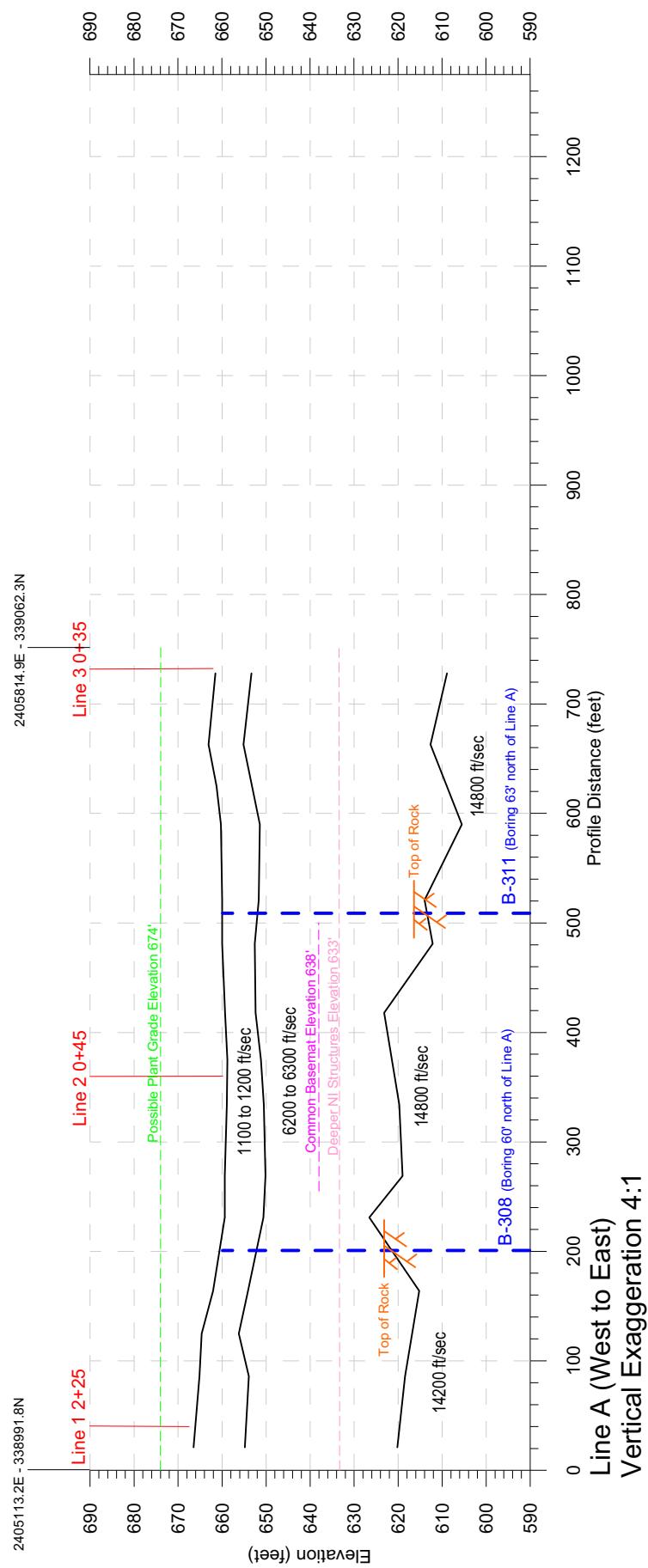
Figure 2.5-122 {Refraction Survey Page 4 of 6}

Figure 2.5-123 {Refraction Survey Page 5 of 6}

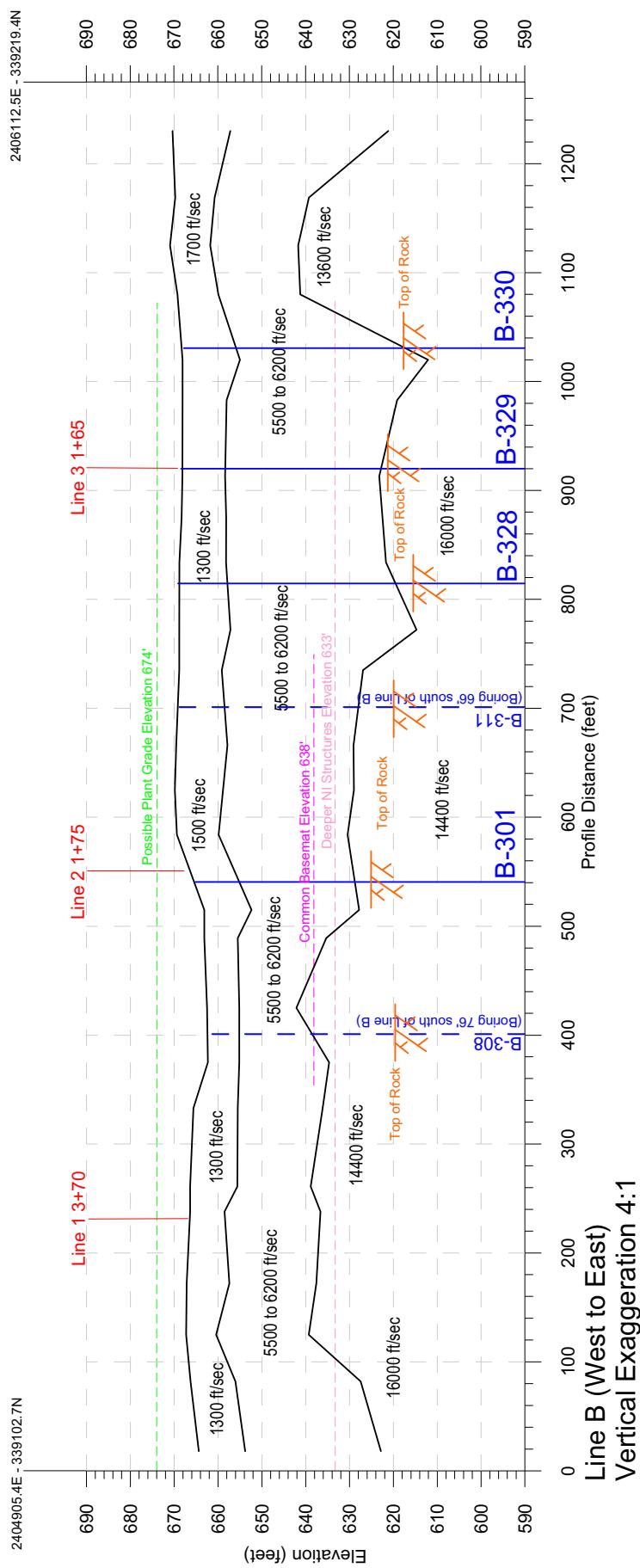


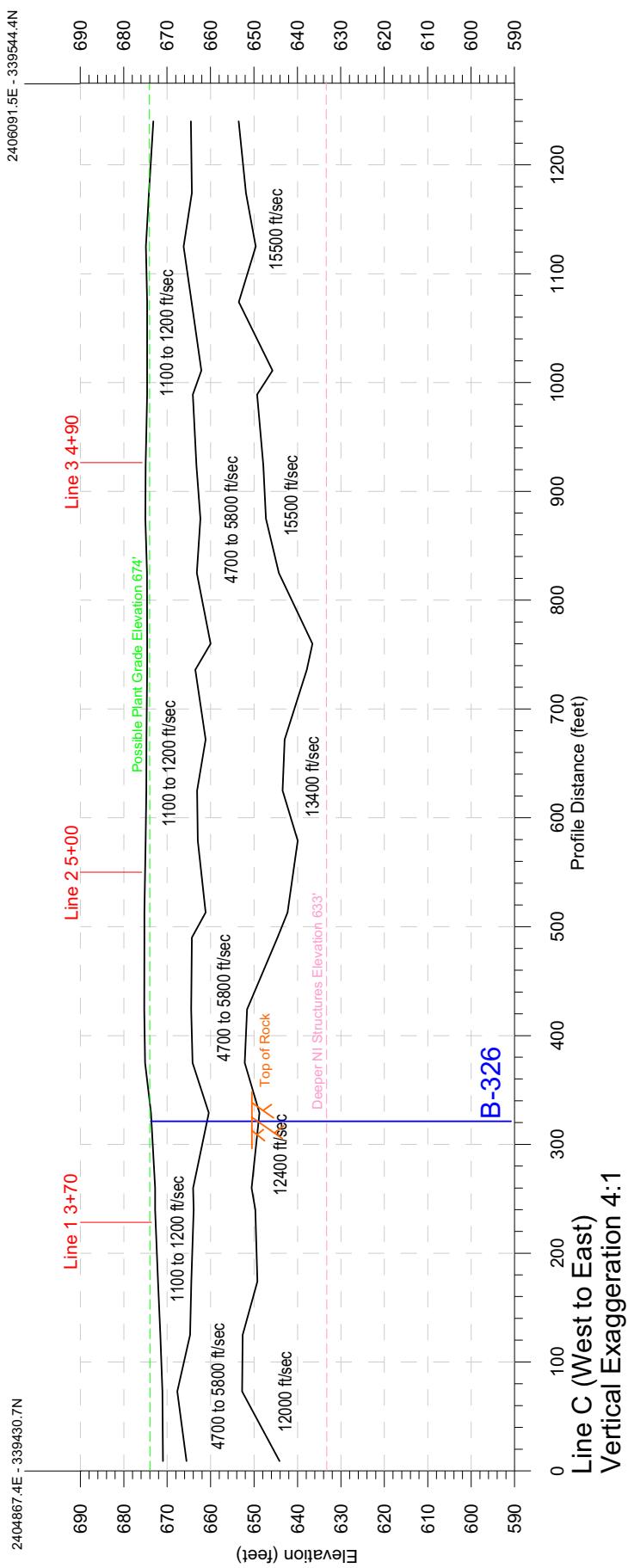
Figure 2.5-124 {Refraction Survey Page 6 of 6}

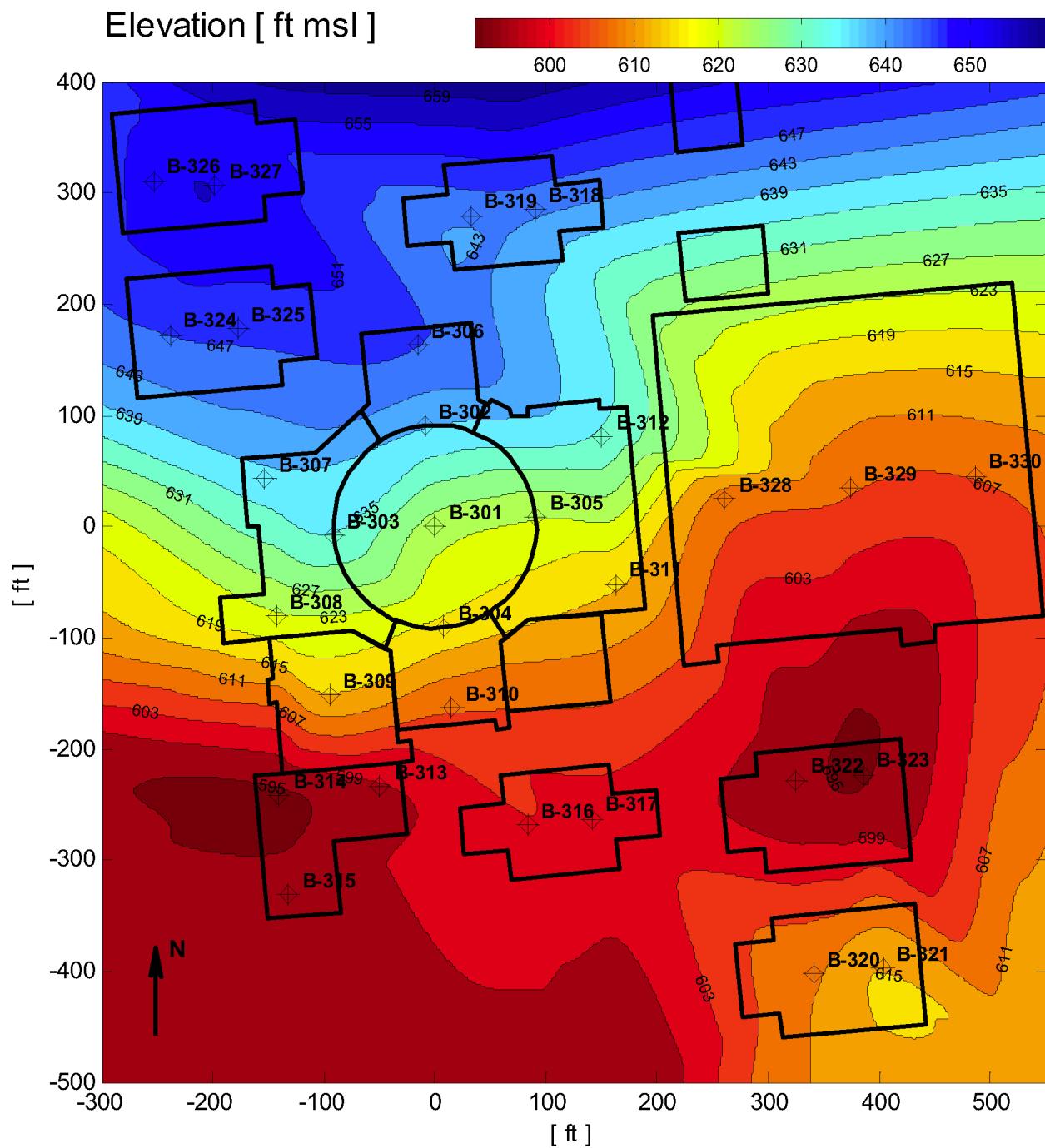
Figure 2.5-125 {Elevation of Competent Rock}

Figure 2.5-126 {Westward View of Syber Creek, with no Evidence of the Light Street Fault}



Figure 2.5-127 {View of Syber Creek Looking North, with no Expression of the Light Street Fault}

