Figure 2.5-29— {Map of Seismic Lines (A) and Channels (B)}

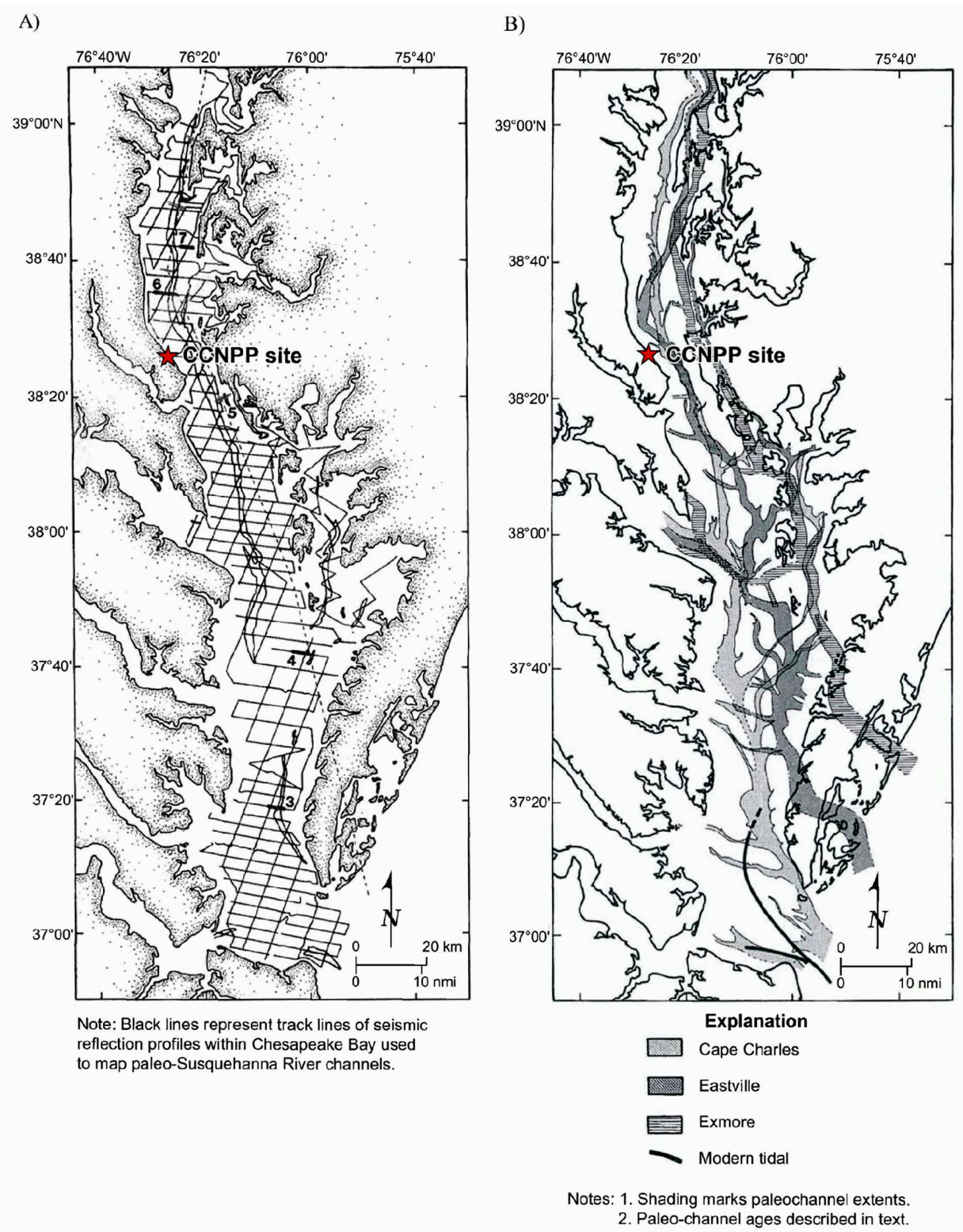

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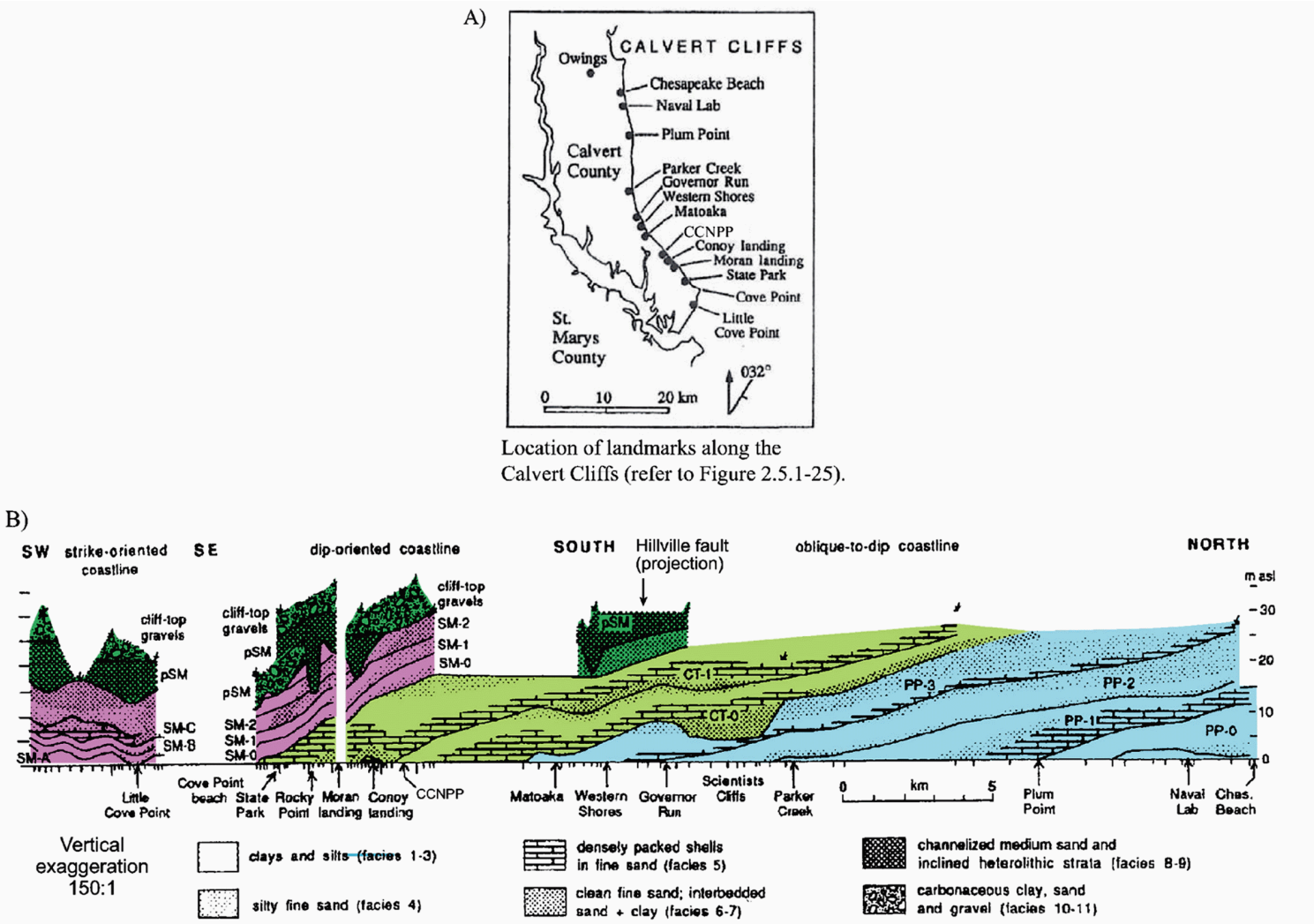
Figure 2.5-30— {Location Map (A) and Cross Section (B) of Calvert Cliffs, Maryland}



Location of landmarks along the Calvert Cliffs (refer to Figure 2.5.1-25).

Cross section of the Calvert Cliffs showing disconformity-bounded units. PP, Plum Point Member of the Calvert Formation; CT, Choptank Formation; SM, St. Marys Formation; pSM, post-St. Mary's Neogene strata.

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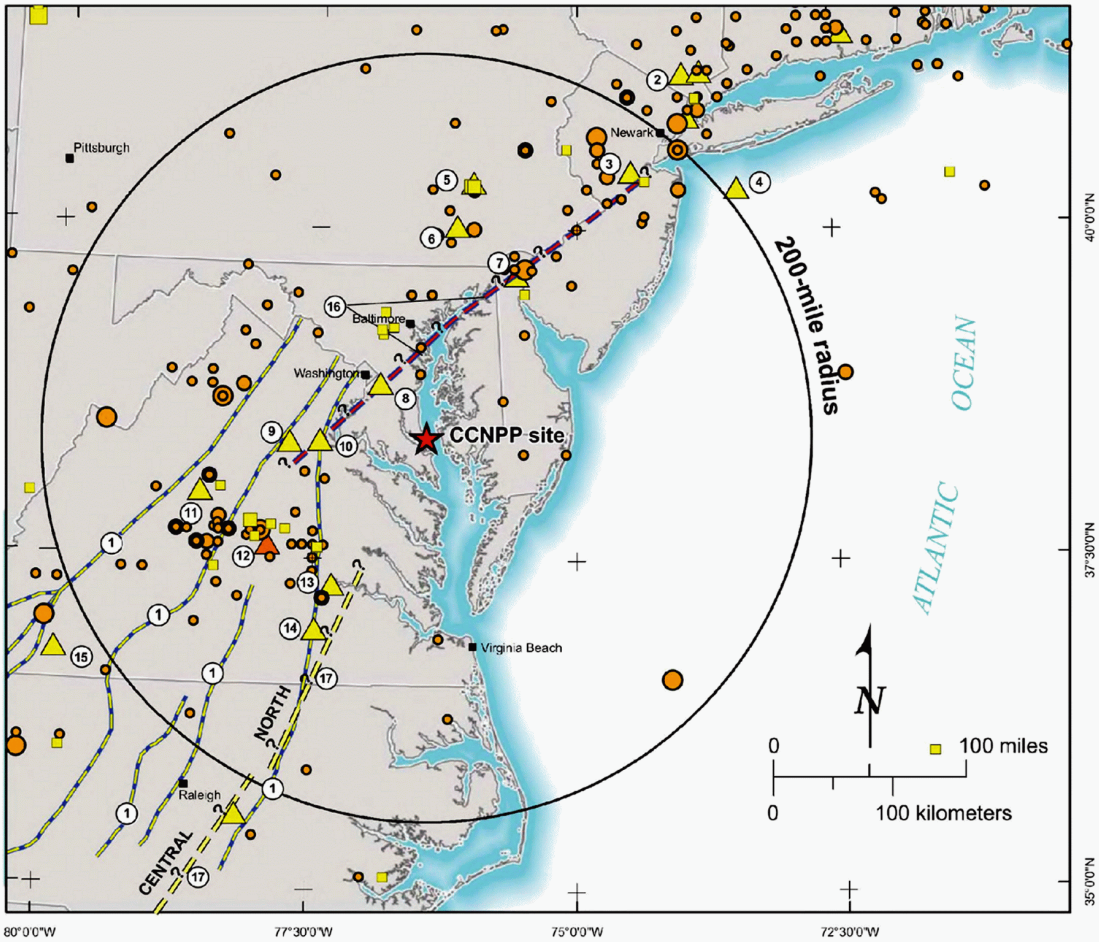
Figure 2.5-31— {Potential Quaternary Features in the Site Region}



Explanation

Features* compiled from Crone and Wheeler (2000) and Wheeler (2005)

Class

- A
- C
- C East coast fault system (Marple and Talwani, 2000)
- C Weems fall lines (1998) (Marple, 2004)
- C Stafford fault system (Marple, 2004)

Earthquake Epicenters (by magnitude, Emb)

EPRI Catalog (1627 - 1984)	*Eastern U.S. Seismicity (1985 - 2006)*
3.00 - 3.99	3.00 - 3.99
4.00 - 4.99	4.00 - 4.99
5.00 - 5.99	5.00 - 5.21
6.00 - 6.99	
7.00 - 7.49	

*Refer to table below for feature names

1. Fall lines (Weems, 1988)
2. Ramapo fault system
3. Kingston fault
4. New York Bight fault (offshore)
5. Cacoosing Valley earthquake
6. Lancaster seismic zone
7. New Castle County faults
8. Upper Marlboro faults
9. Everona fault-Mountain Run fault zone
10. Stafford fault (Mixon et al., 2000)
11. Lebanon Church fault
12. Central Virginia seismic zone
13. Hopewell fault
14. Old Hickory faults
15. Stanleytown-Villa Heights faults
16. Stafford fault system of Marple (2004)
17. East Coast fault system (Marple and Talwani, 2007)

Note: Emb is an equivalent body wave magnitude explained in Section 2.5.2.1.

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Figure 2.5-32— {Site Area Geologic Map 5-Mile (8-Km) Radius}

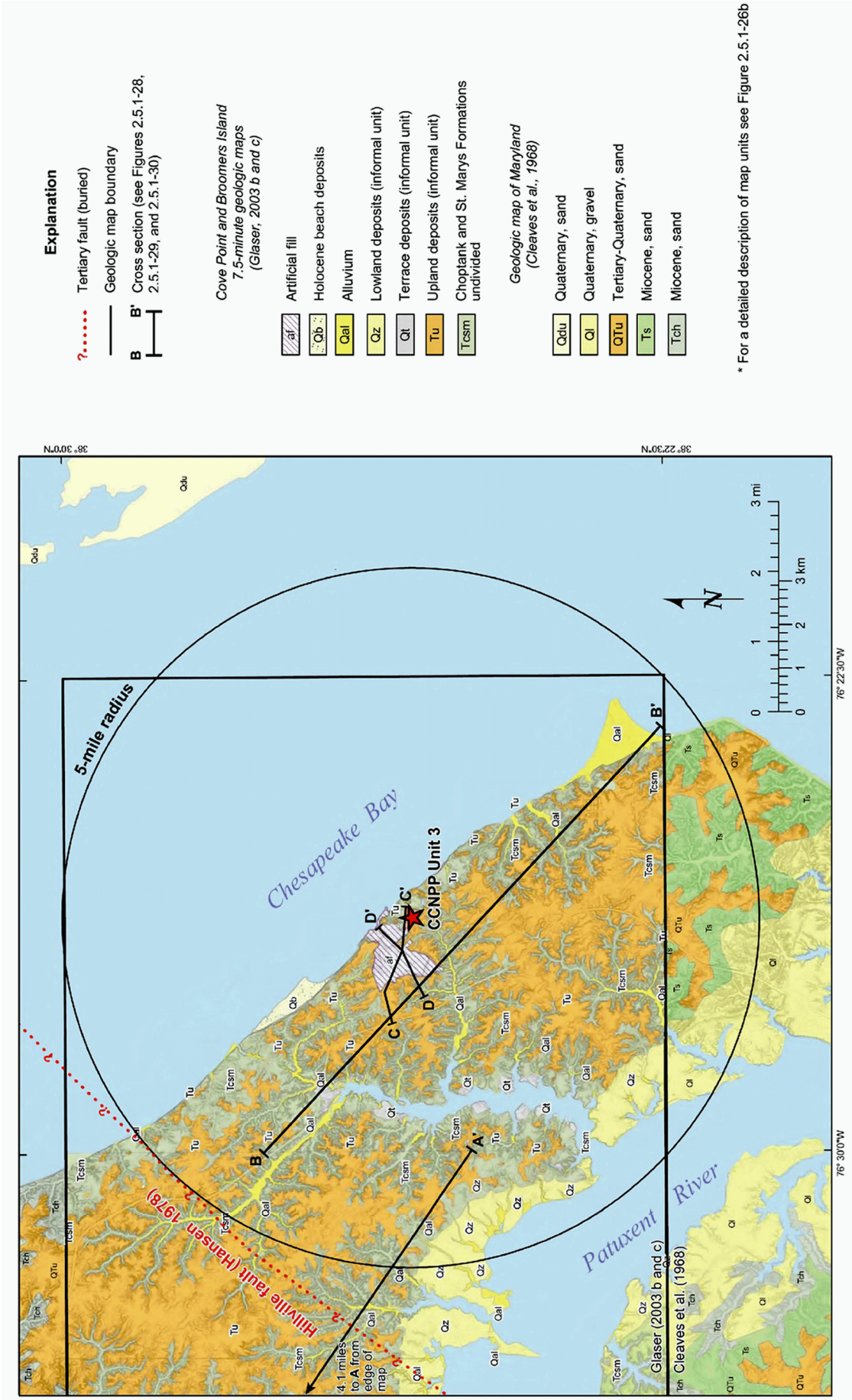

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Figure 2.5-33— {Site Area Geologic Cross Sections A-A′ and B-B′ 5-Mile (8-Km) Radius}

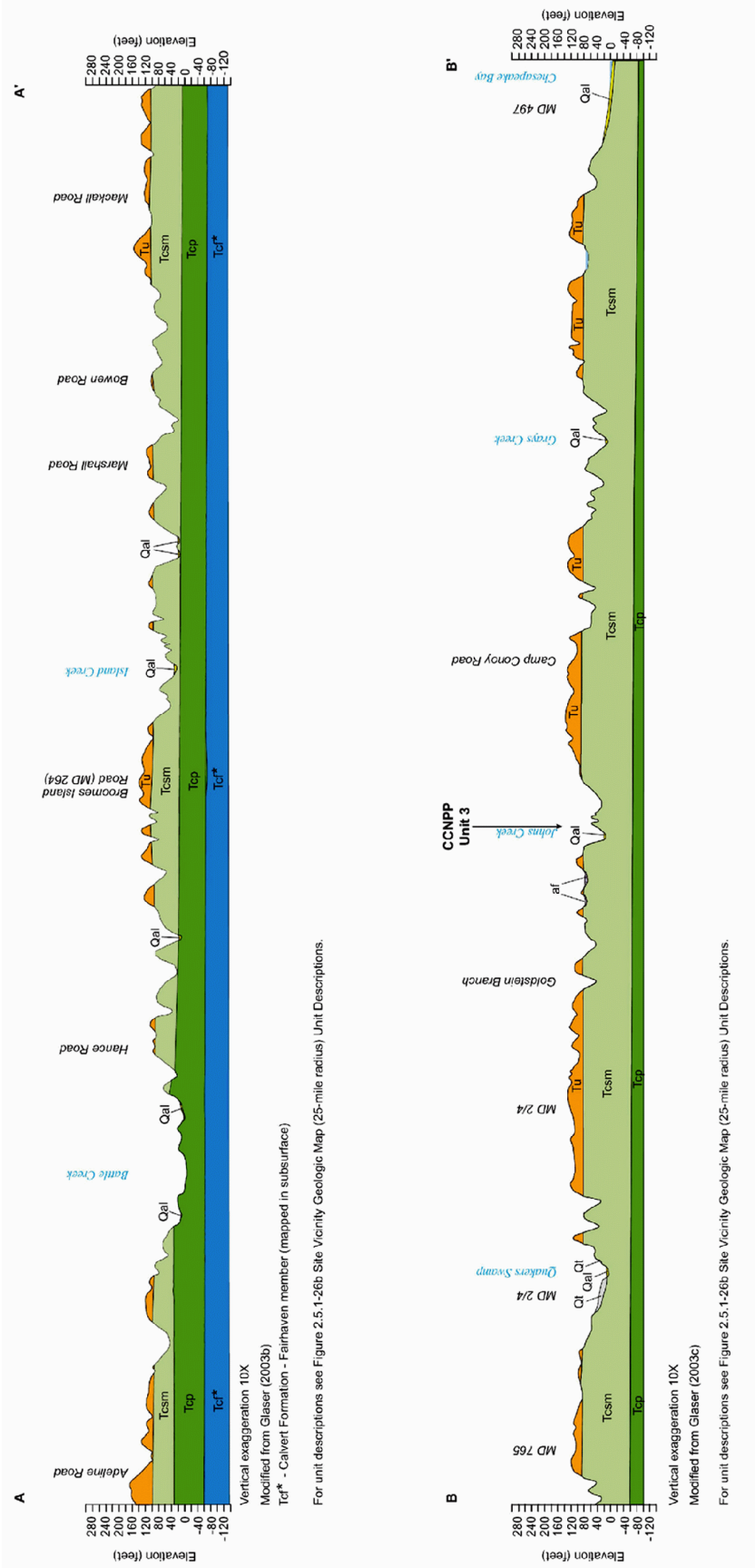

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Figure 2.5-34— {Site Geologic Map 0.6-mi (1-km) Radius}

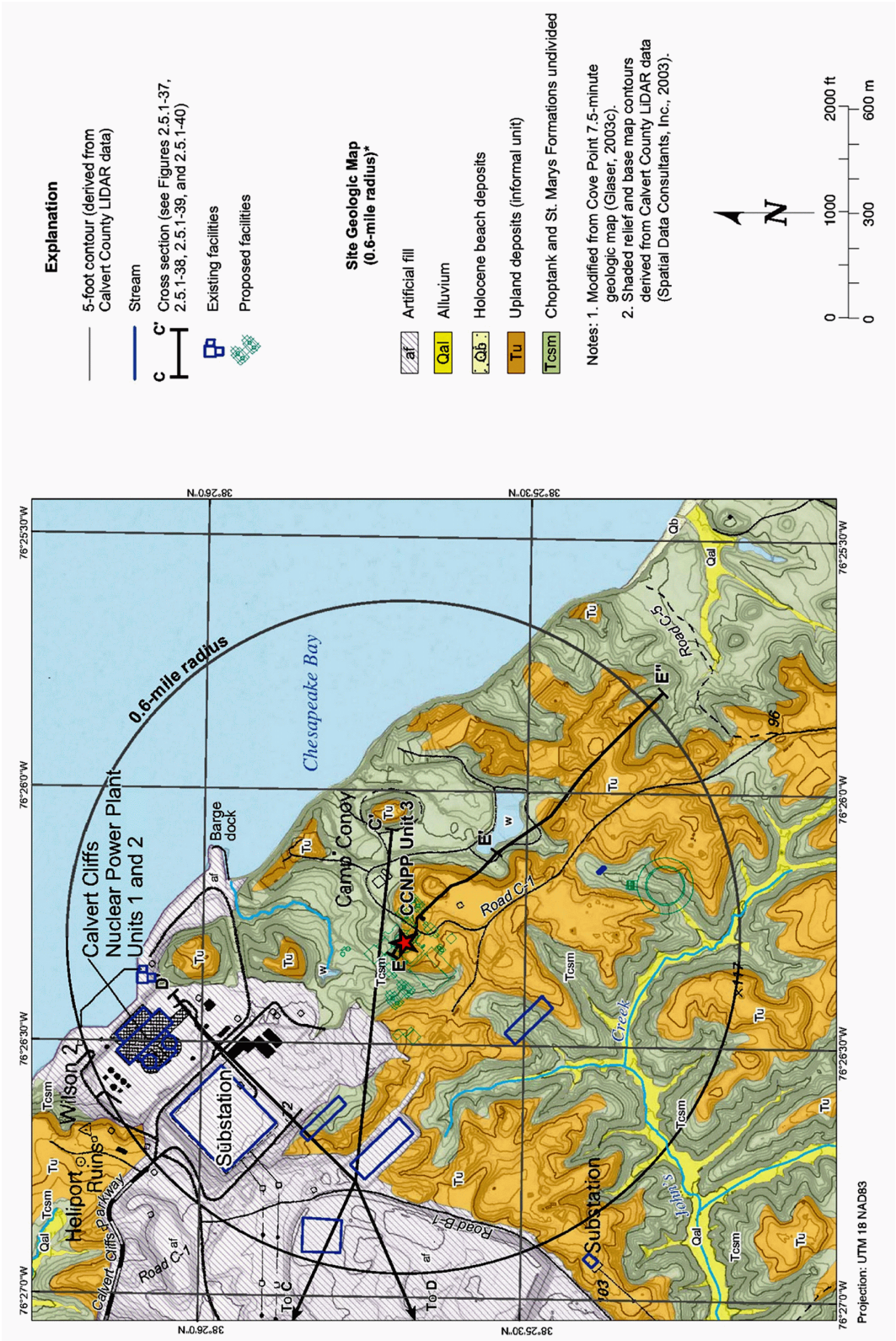

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Figure 2.5-35— {Boring Location Map CCNPP 3 from 2007 Drilling Program}

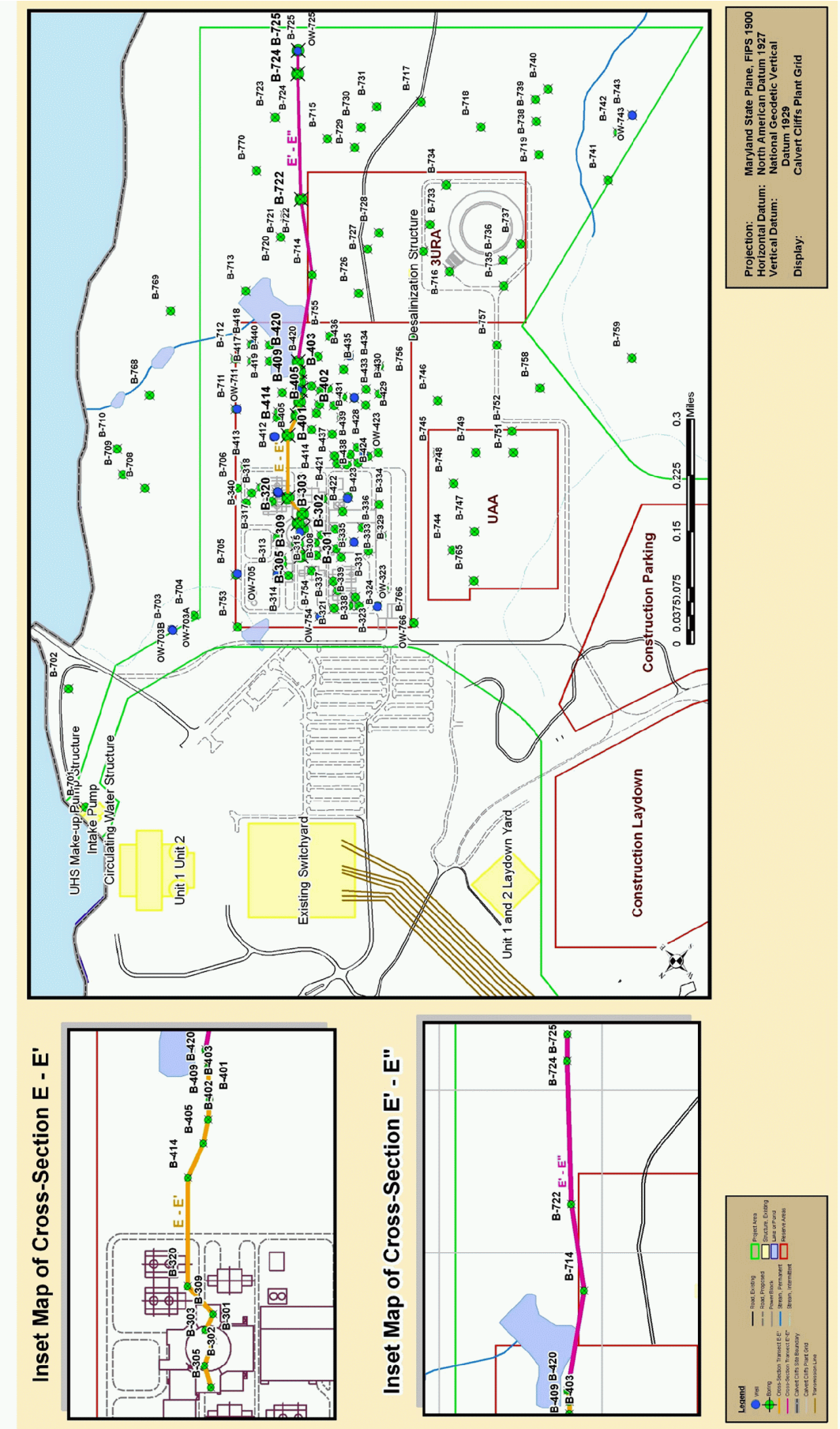

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Figure 2.5-36— {CCNPP Site Specific Stratigraphic Column}

ERA	PERIOD	EPOCH		AGE (Ma)	UNIT	THICKNESS (FT)
Cenozoic	Quarter-nary	Holocene		0.01	**Alluvium & Beach Deposits**	0-50
		Pleistocene		1.8	**Terrace & Lowland Deposits**	
	Tertiary	Pliocene		5.3	**Upland Deposits**	0-50
		Miocene	Upper	11.2		
			Middle	16.4	**Chesapeake Group** St. Marys Formation Choptank Formation Calvert Formation	245-280
		Eocene	Middle	49	**Piney Point Formation**	20
			Lower	54.8	**Nanjemoy Formation**	180
		Paleocene	Upper	61	**Marlboro Clay** **Aquia Formation**	165-170
			Lower	65	**Brightseat Formation**	10-20
Mesozoic	Cretaceous	Upper		99	**Magothy, Monmouth, Matawan Formations undifferentiated**	30?
		Lower		144	**Potomac Group** **Patapsco Formation** **Arundel/Patuxent Formations (undivided)**	1000-1100 750-900
Proterozoic/ Paleozoic				543+	**Metamorphic/Igneous**	

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Figure 2.5-37— {Boring B-301, Caliper, Natural Gamma, Resistivity and SP Logs}

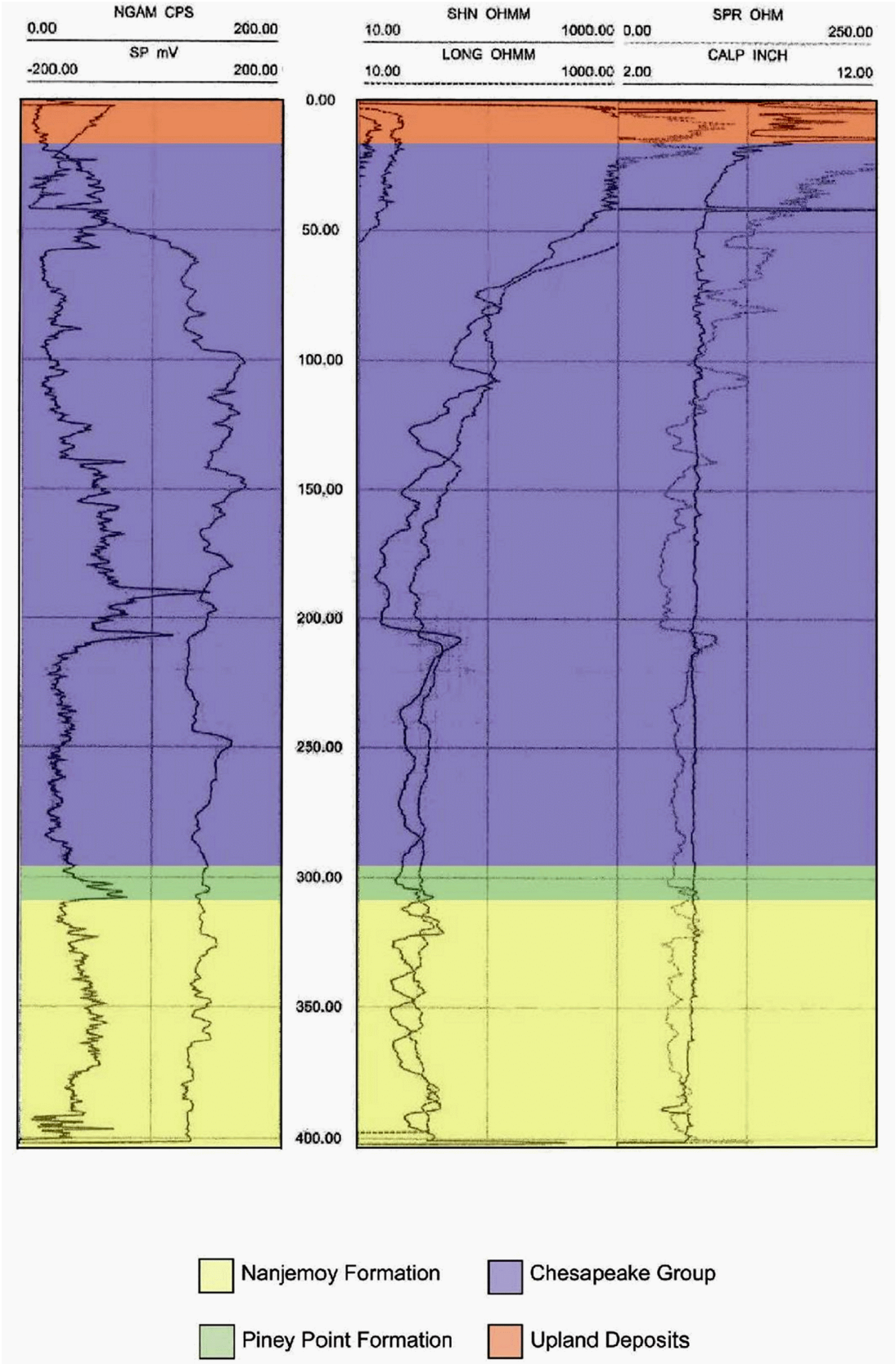

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Figure 2.5-38— {Boring B-401, Caliper, Natural Gamma, Resistivity and SP Logs}

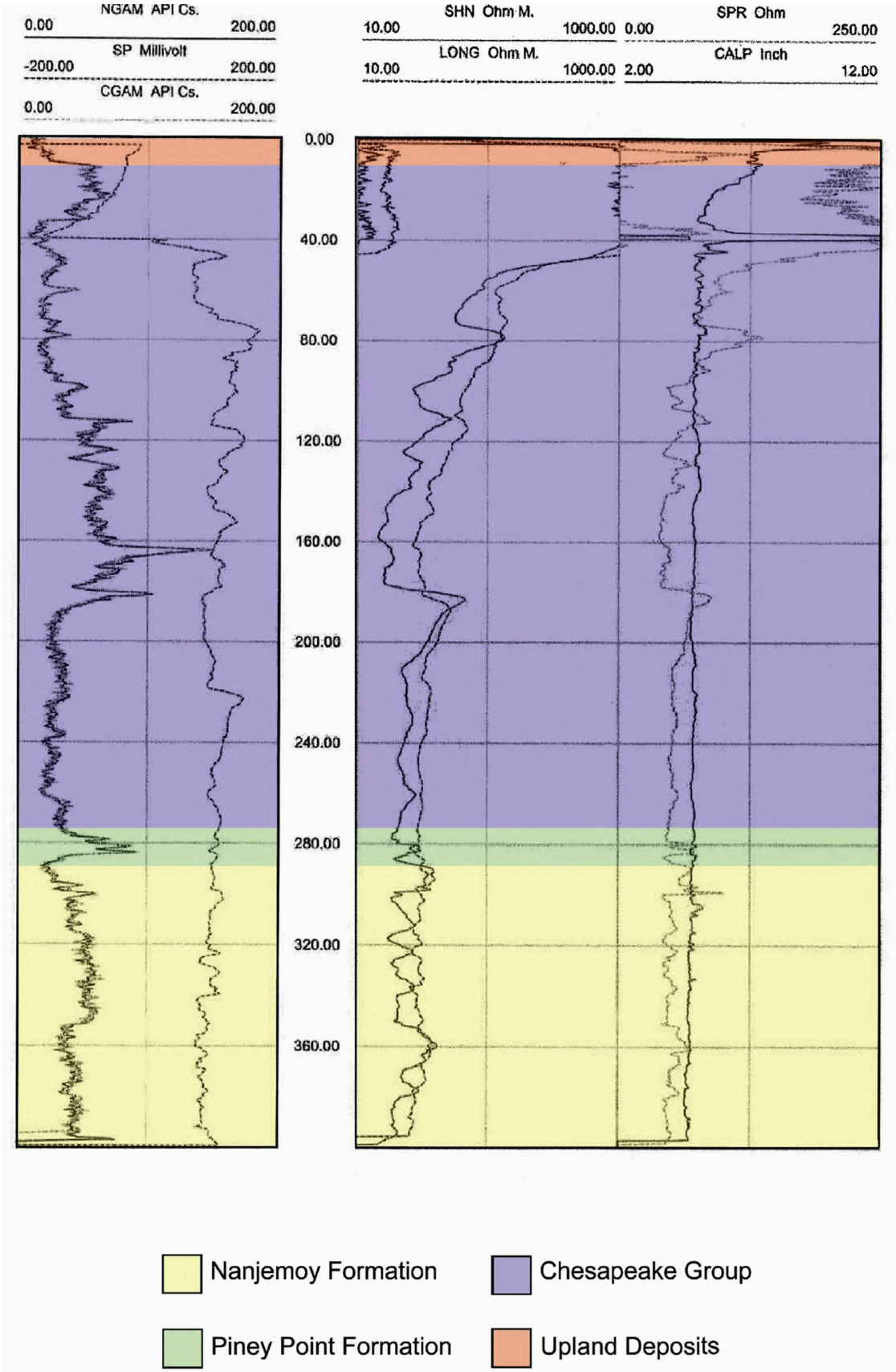

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Figure 2.5-39— {Subsurface Profile E-E'}

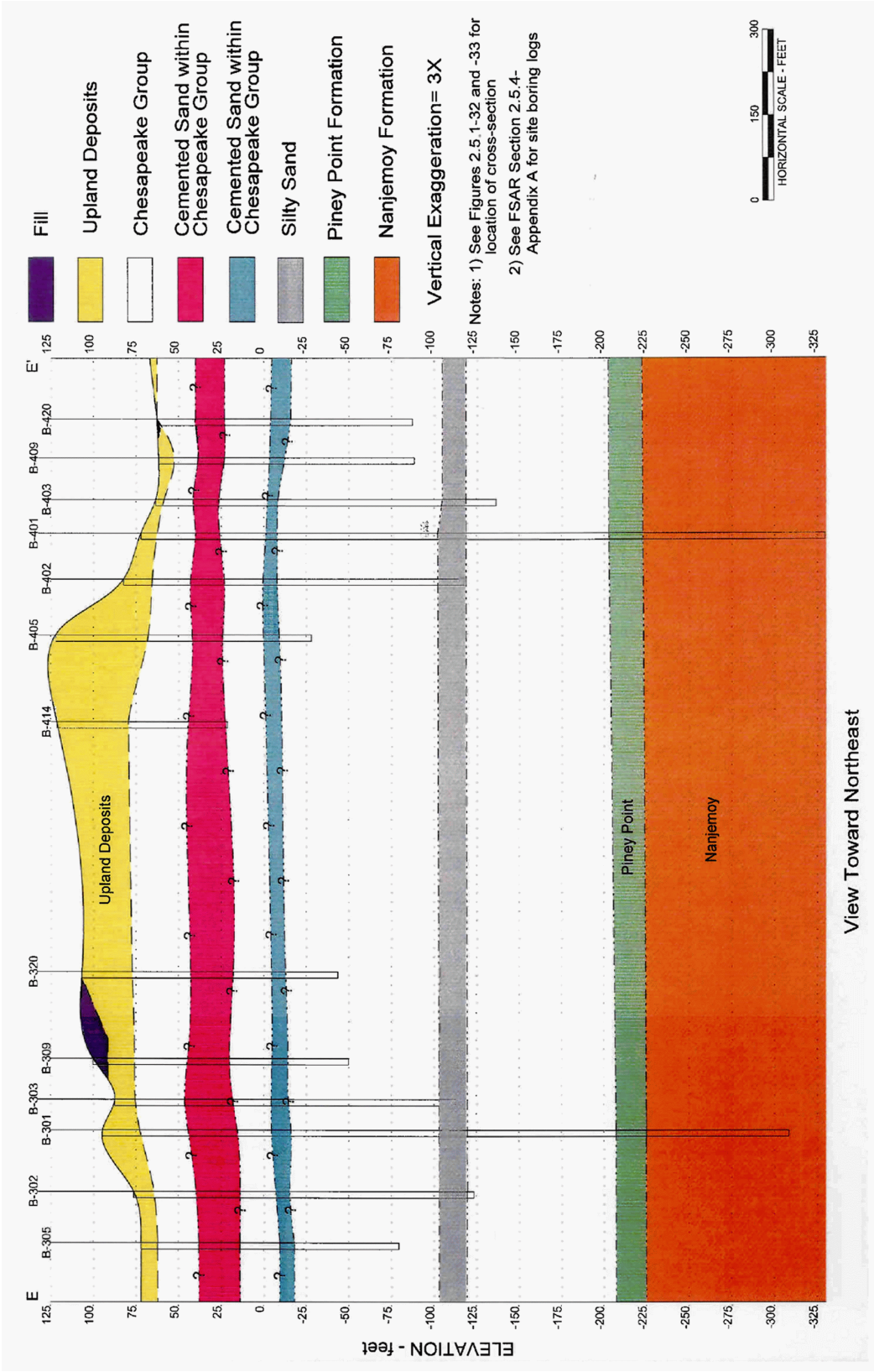

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Figure 2.5-40— {Cross Section}

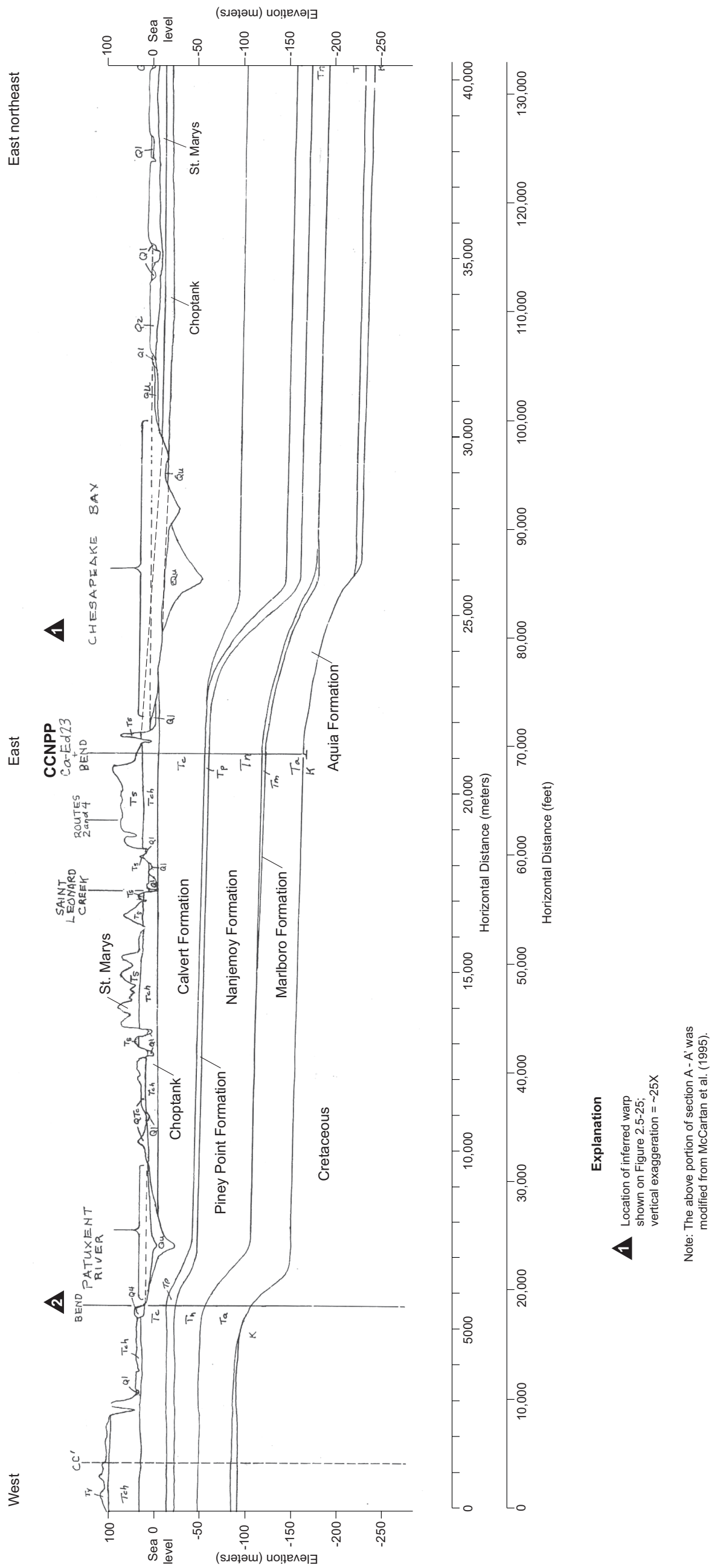

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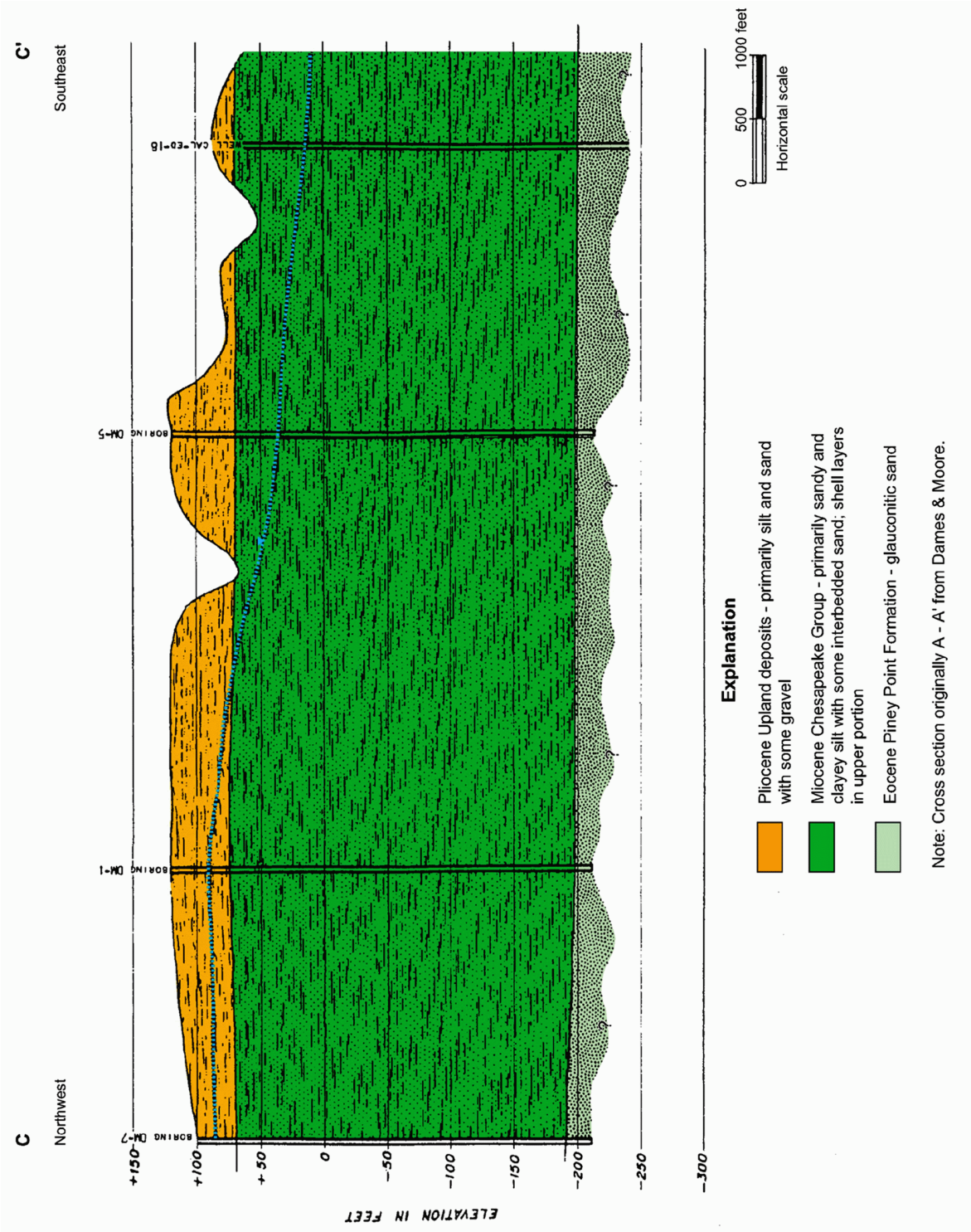
Figure 2.5-41— {Geologic Section C-C'}



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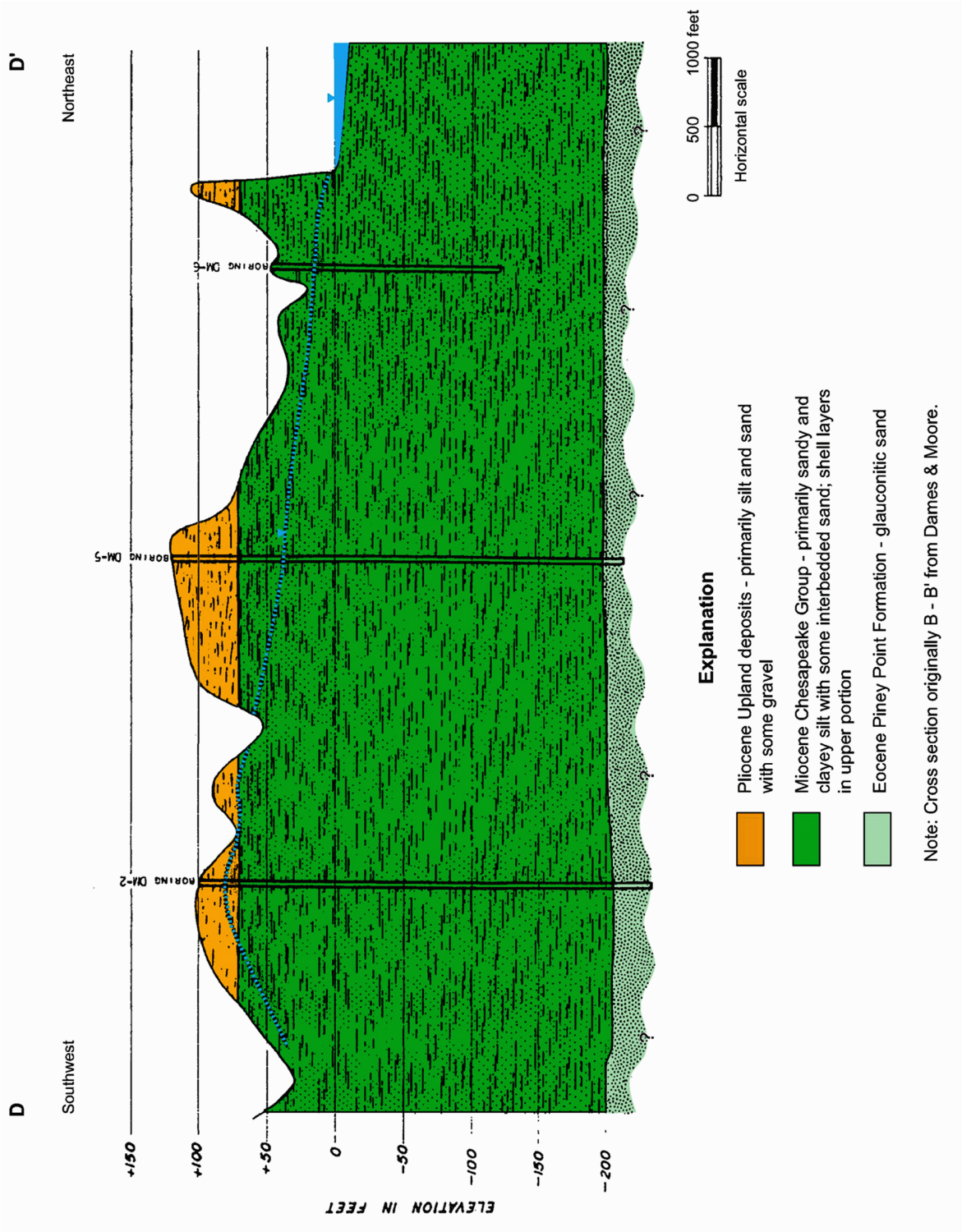

Figure 2.5-42— {Geologic Section D-D'}

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Figure 2.5-43— {Subsurface Profile E-E'}

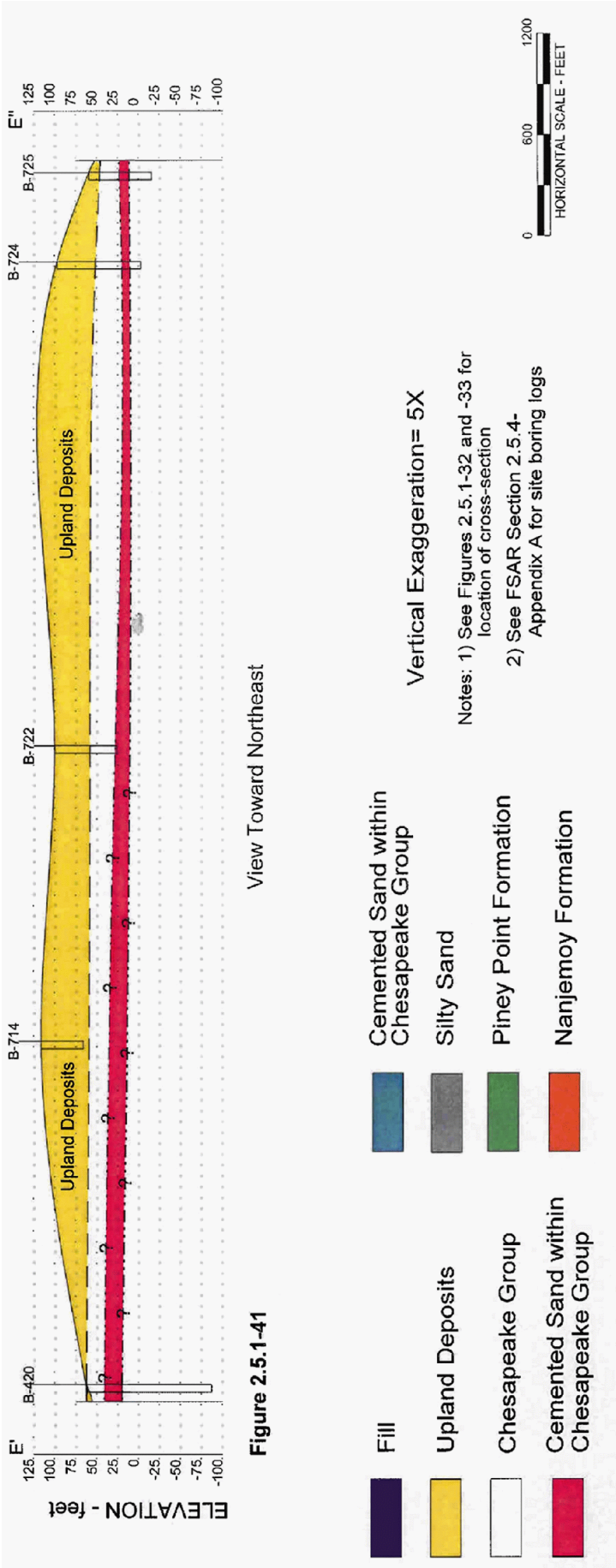

Figure 2.5.1-41

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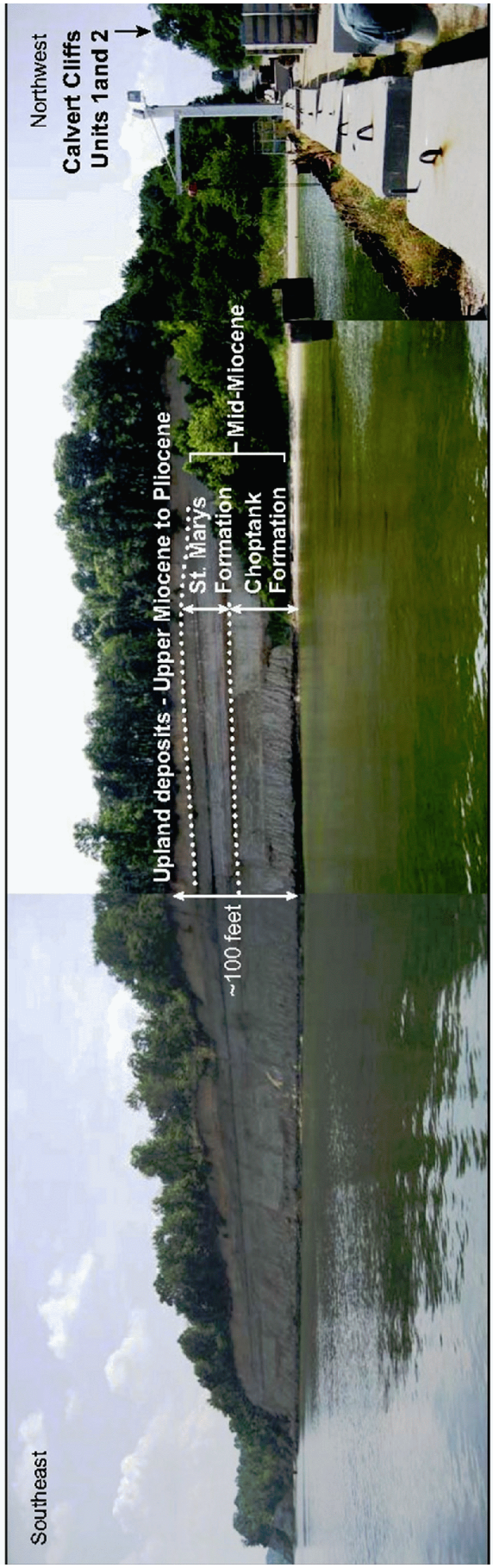

Note: St. Marys and Choptank Formation contact from Kidwell (1977).

Figure 2.5-44— {View of Calvert Cliffs Toward the Southwest from the Barge}

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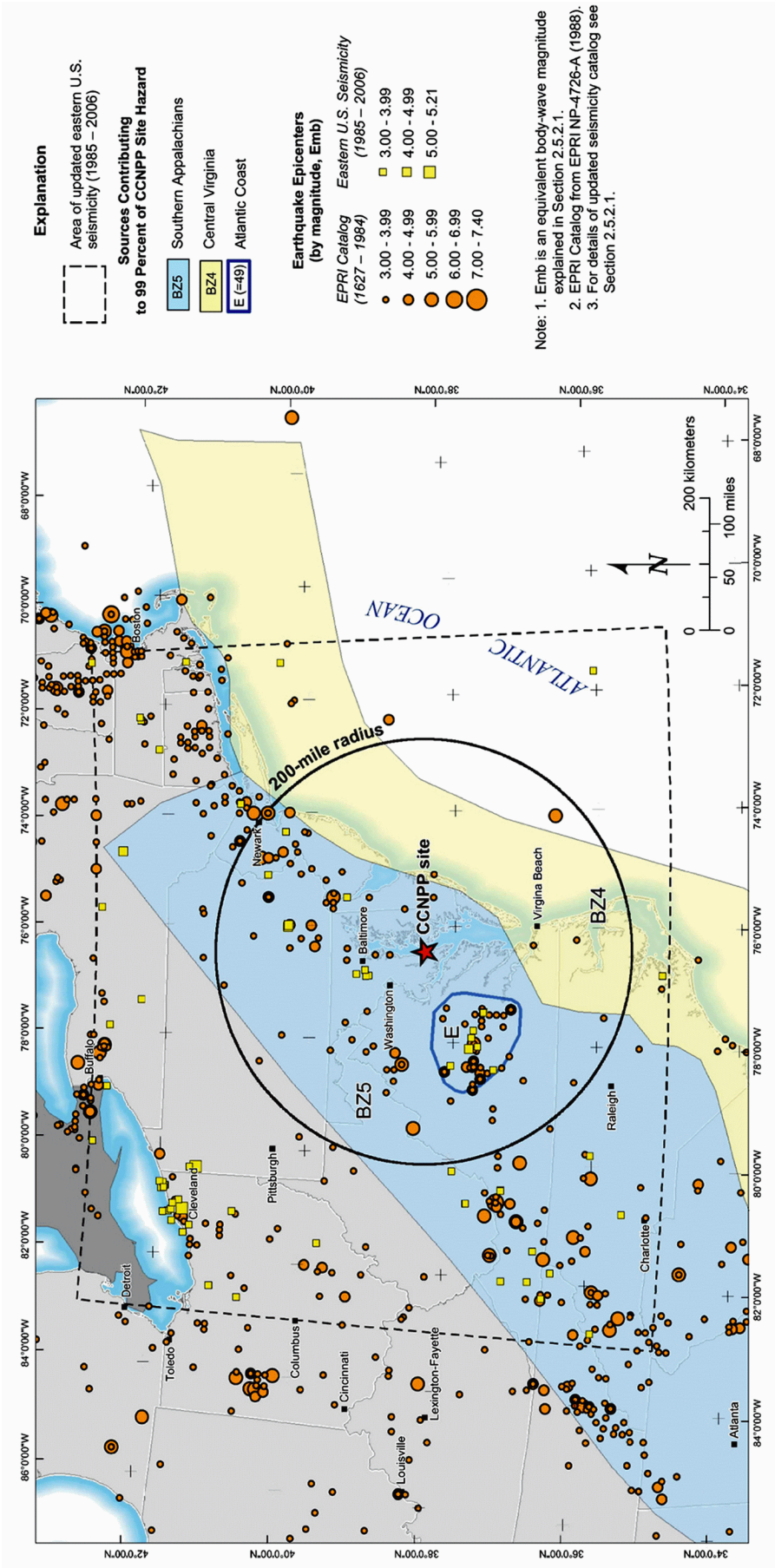

Figure 2.5-45— {Bechtel Group EPRI Source Zones}

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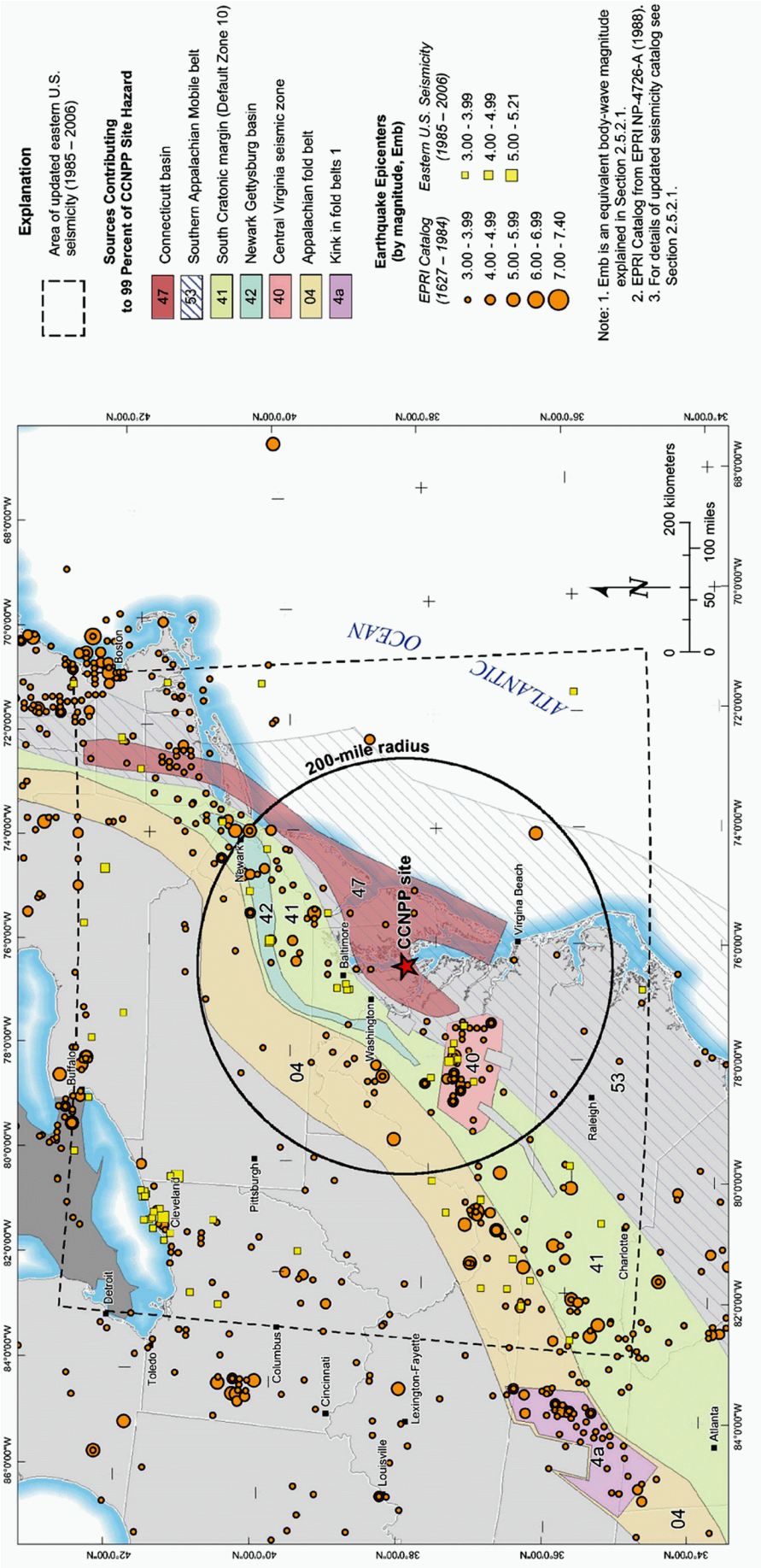

Figure 2.5-46— {Dames & Moore EPRI Source Zones}

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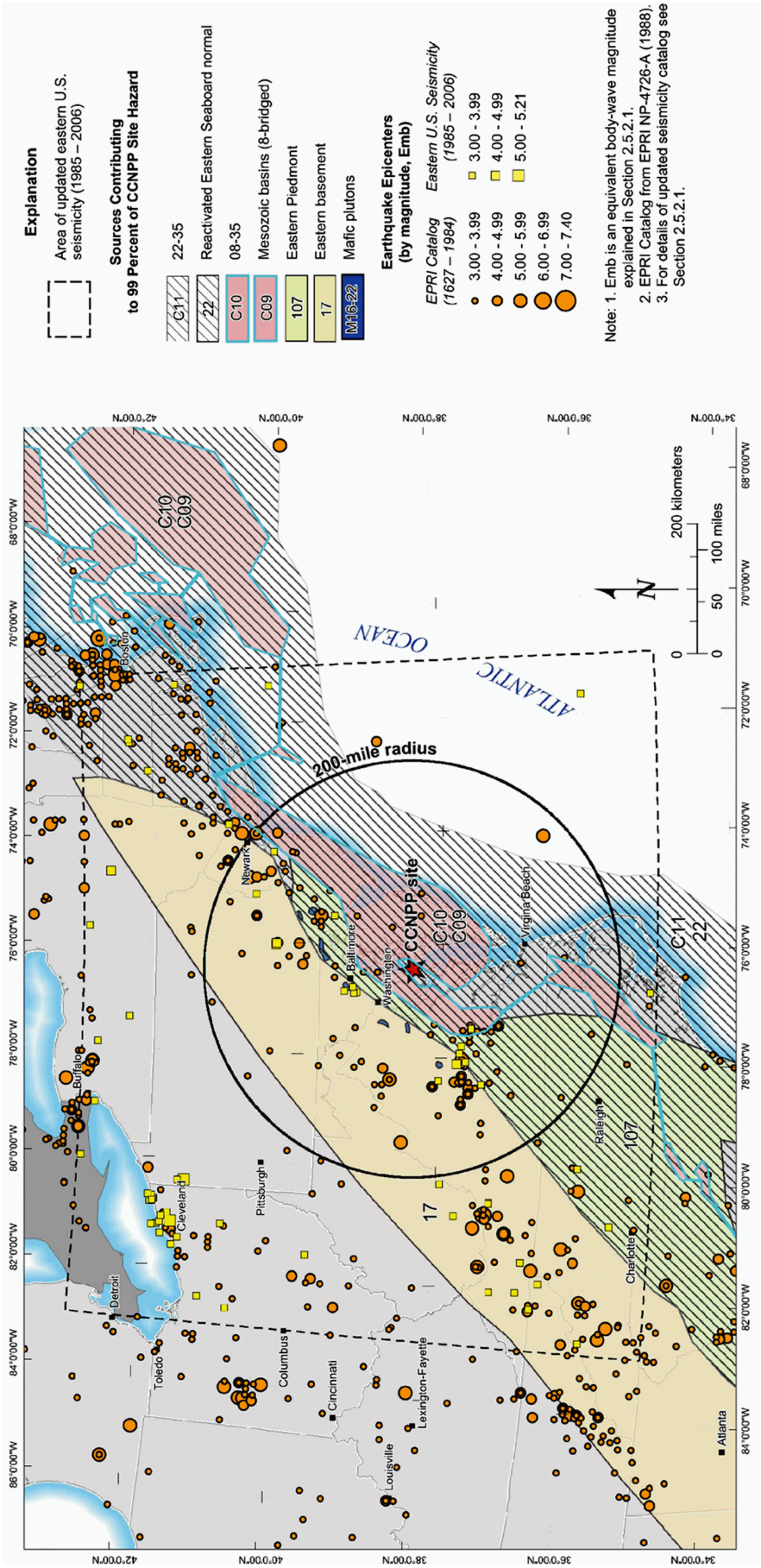

Figure 2.5-47— {Law Engineering EPRI Source Zones}

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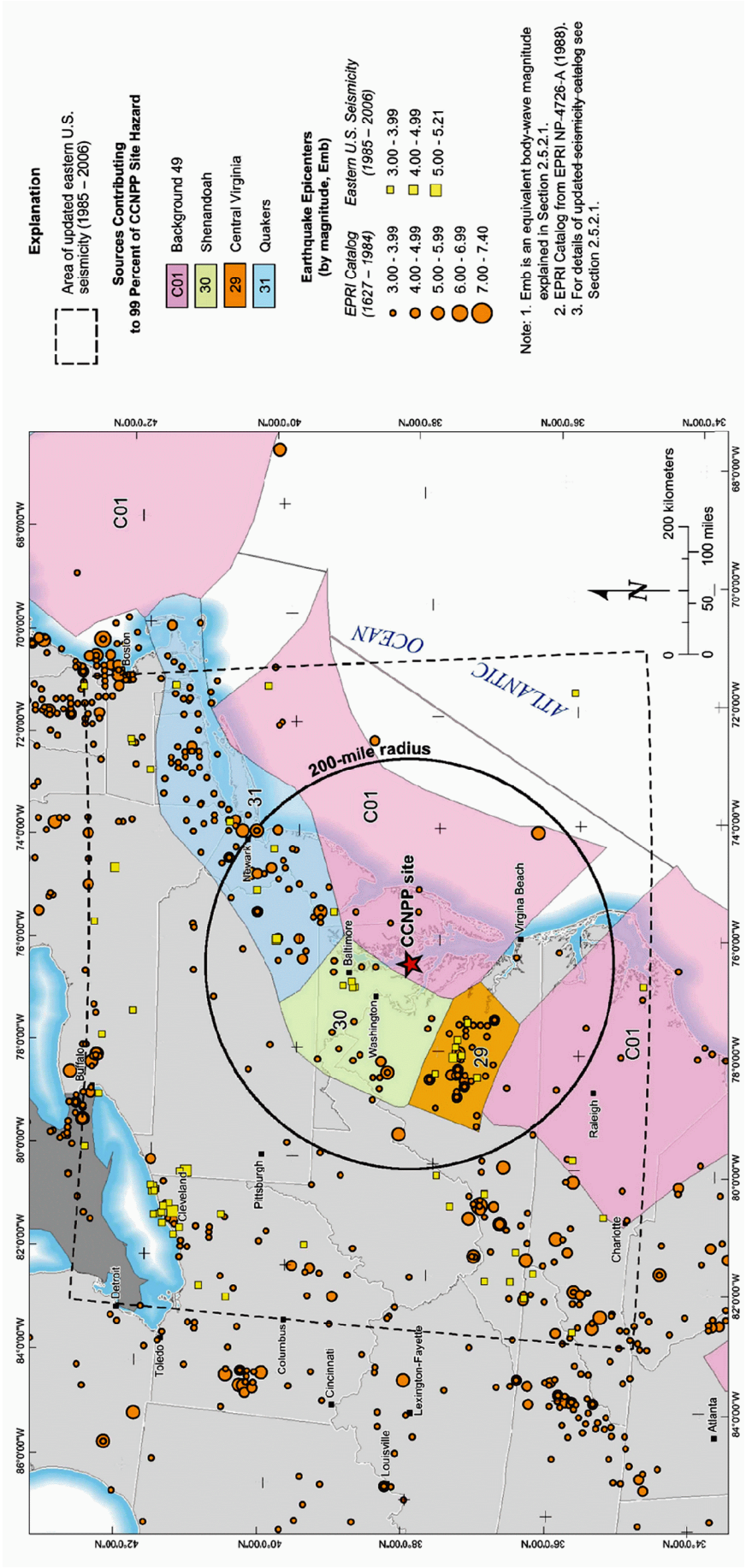

Figure 2.5-48— {Rondout EPRI Source Zones}

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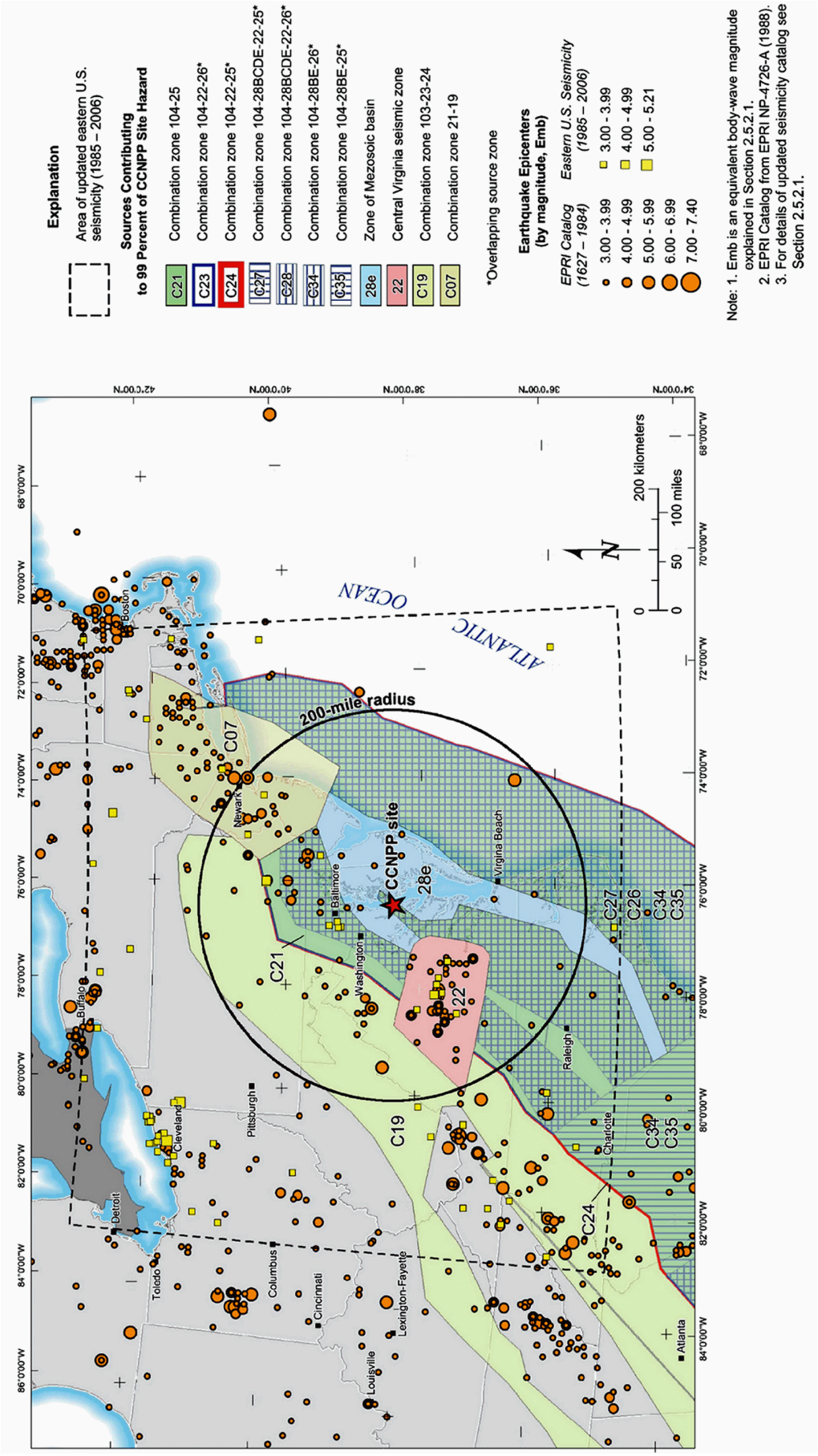

Figure 2.5-49— {Weston Geophysical EPRI Source Zones}

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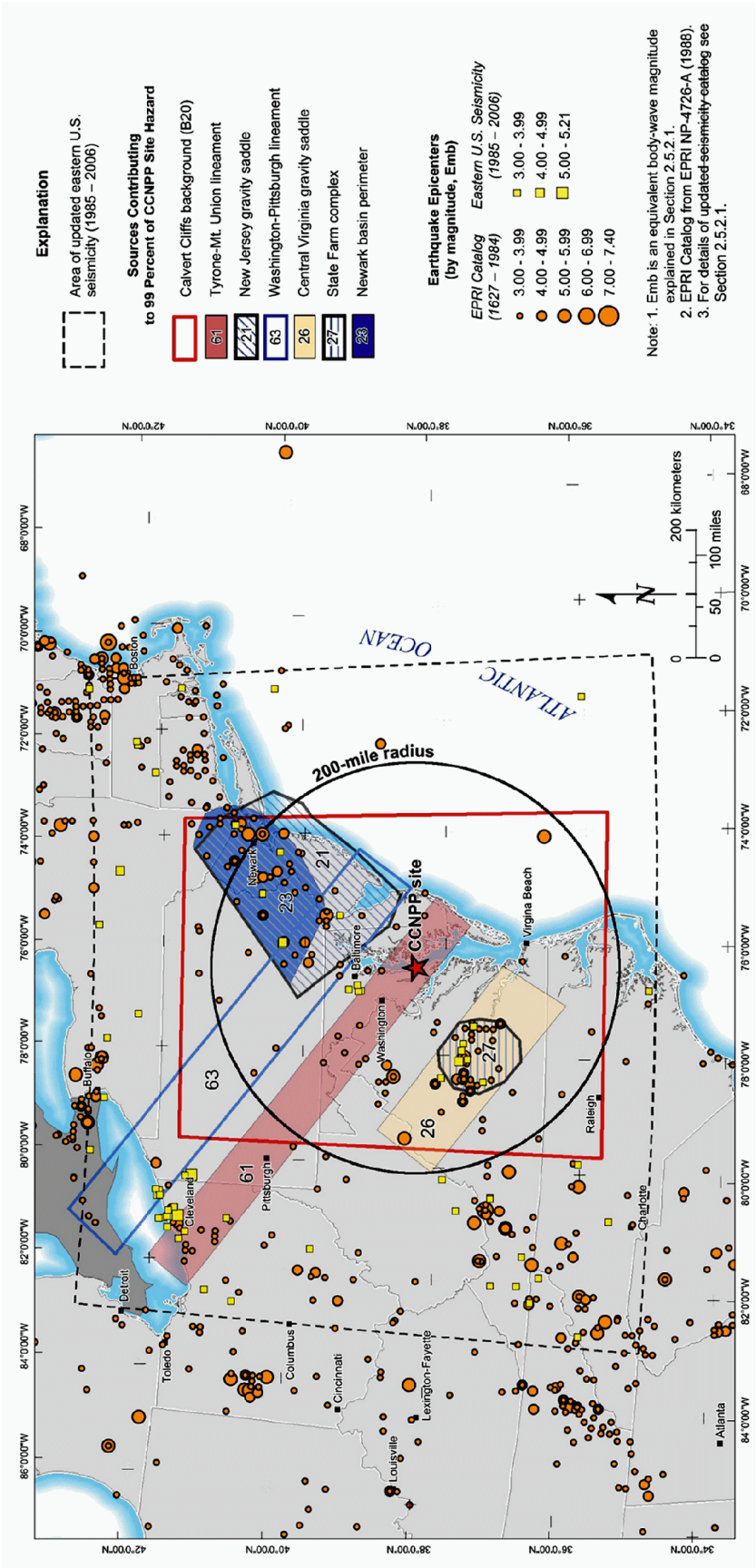

Figure 2.5-50— {Woodward-Clyde Consultants EPRI Source Zones}

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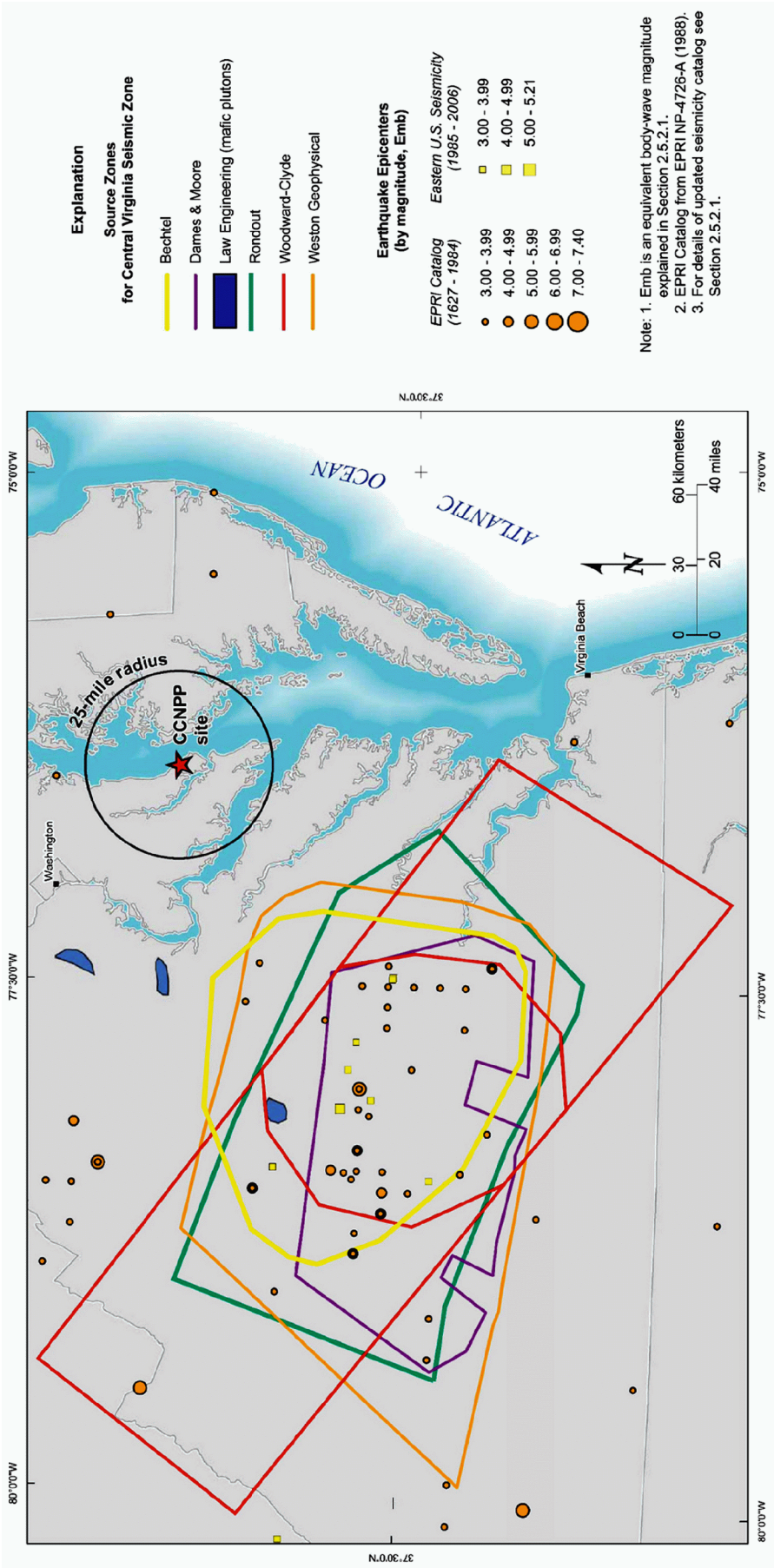

Figure 2.5-51— {Various EPRI Geometries of the Central Virginia Seismic Zone}

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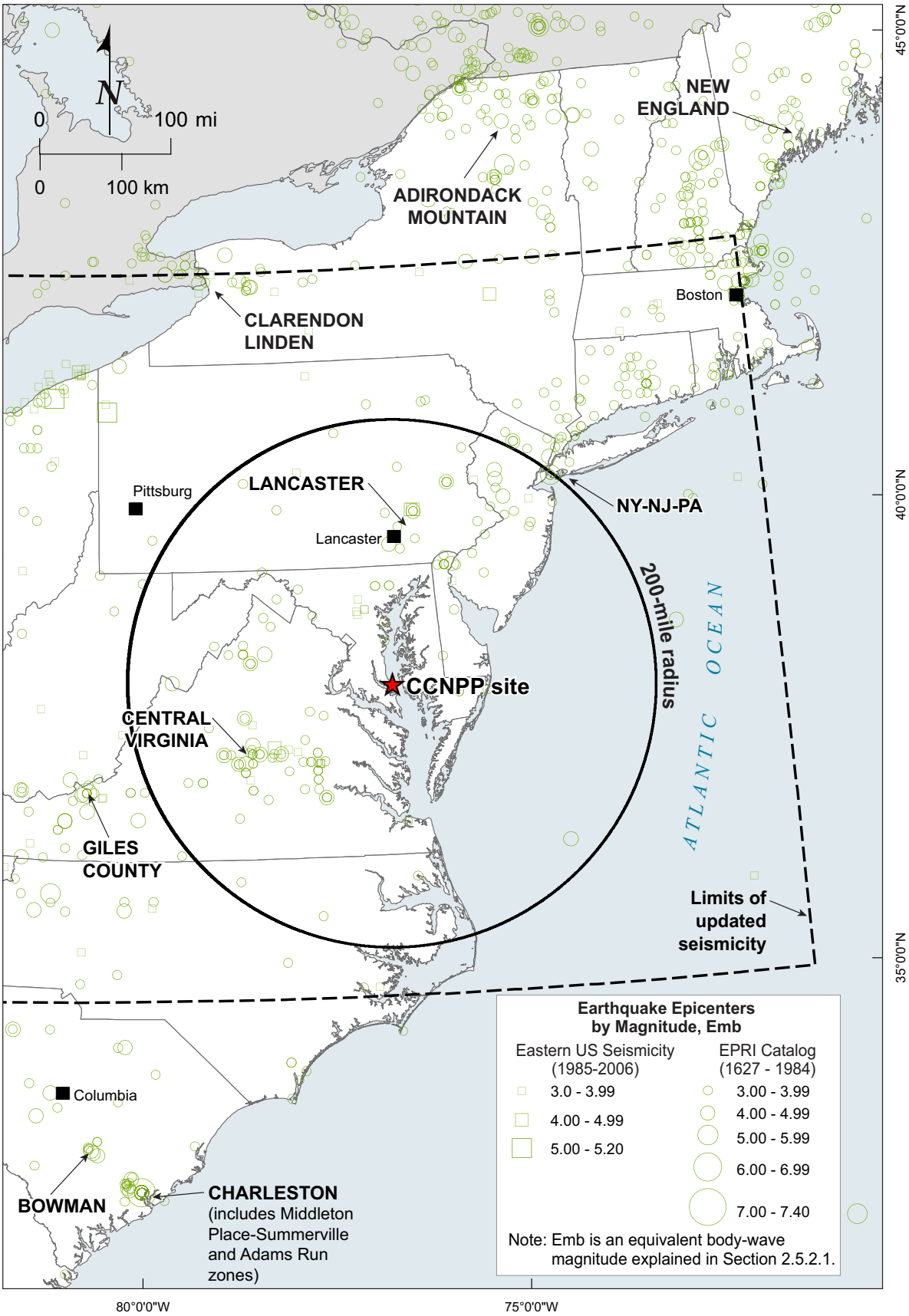
Figure 2.5-52— {Seismic Zones and Seismicity in CEUS}



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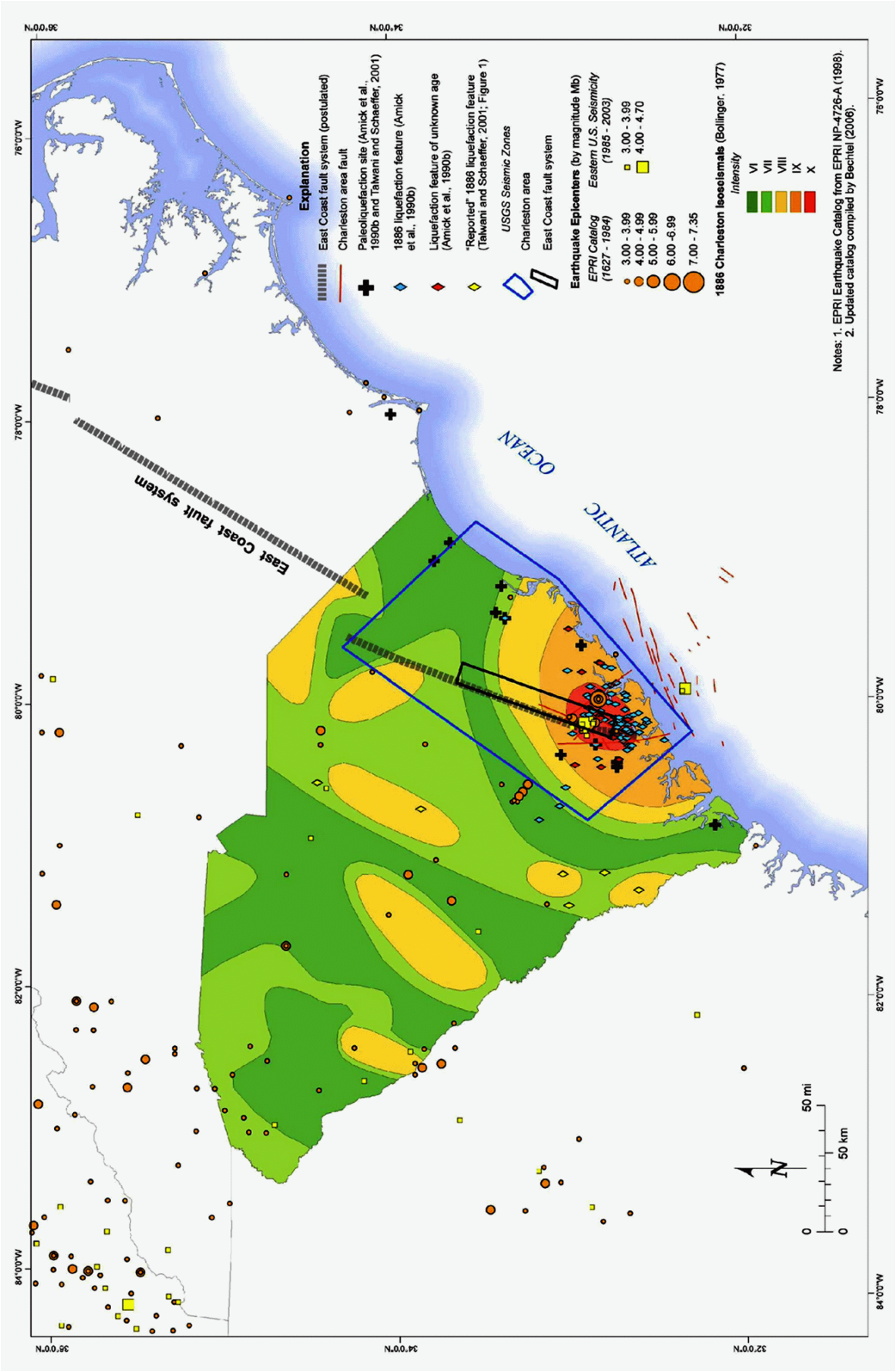

Figure 2.5-53— {USGS Model}

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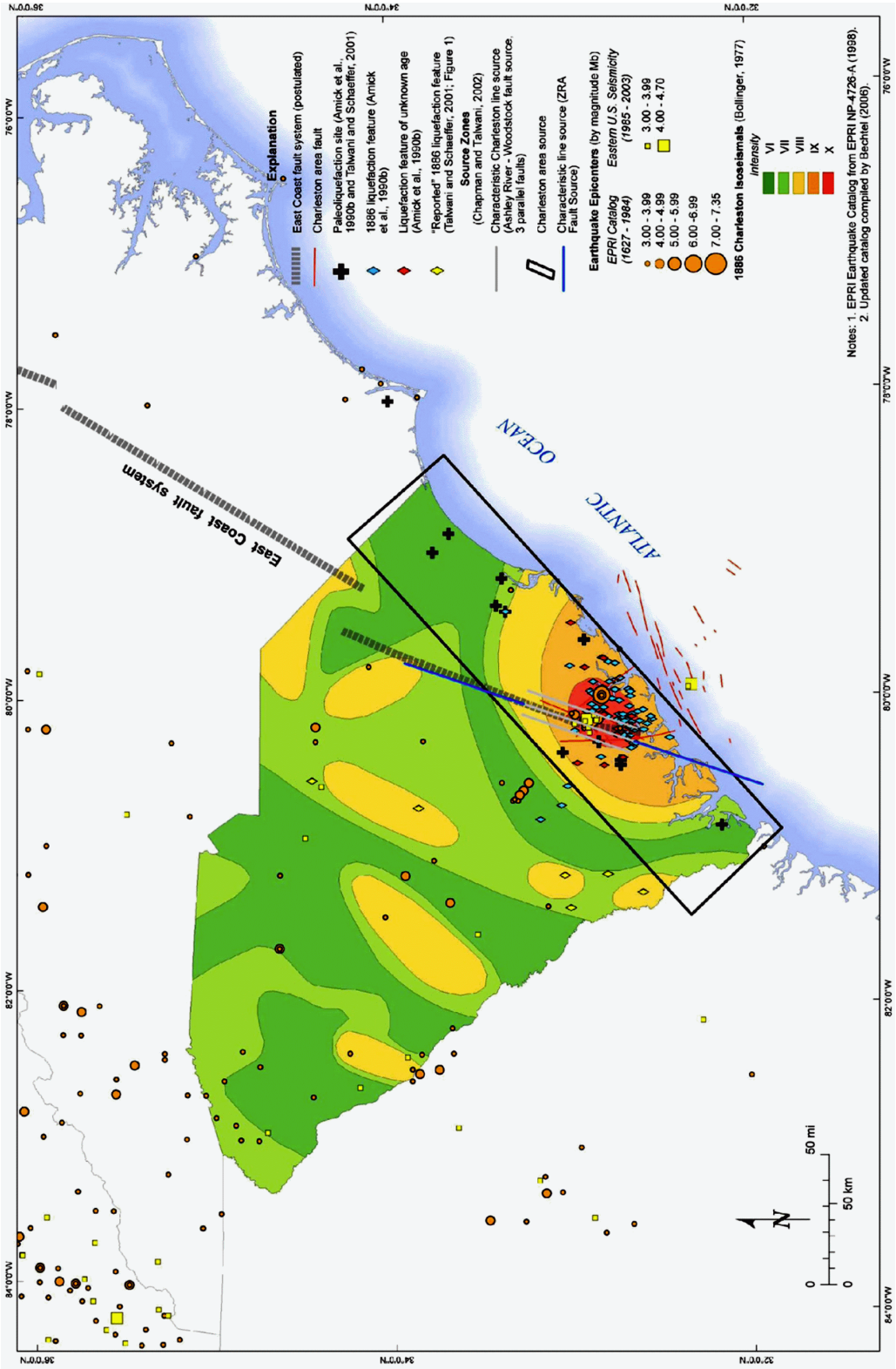

Figure 2.5-54— {SC DOT Model}

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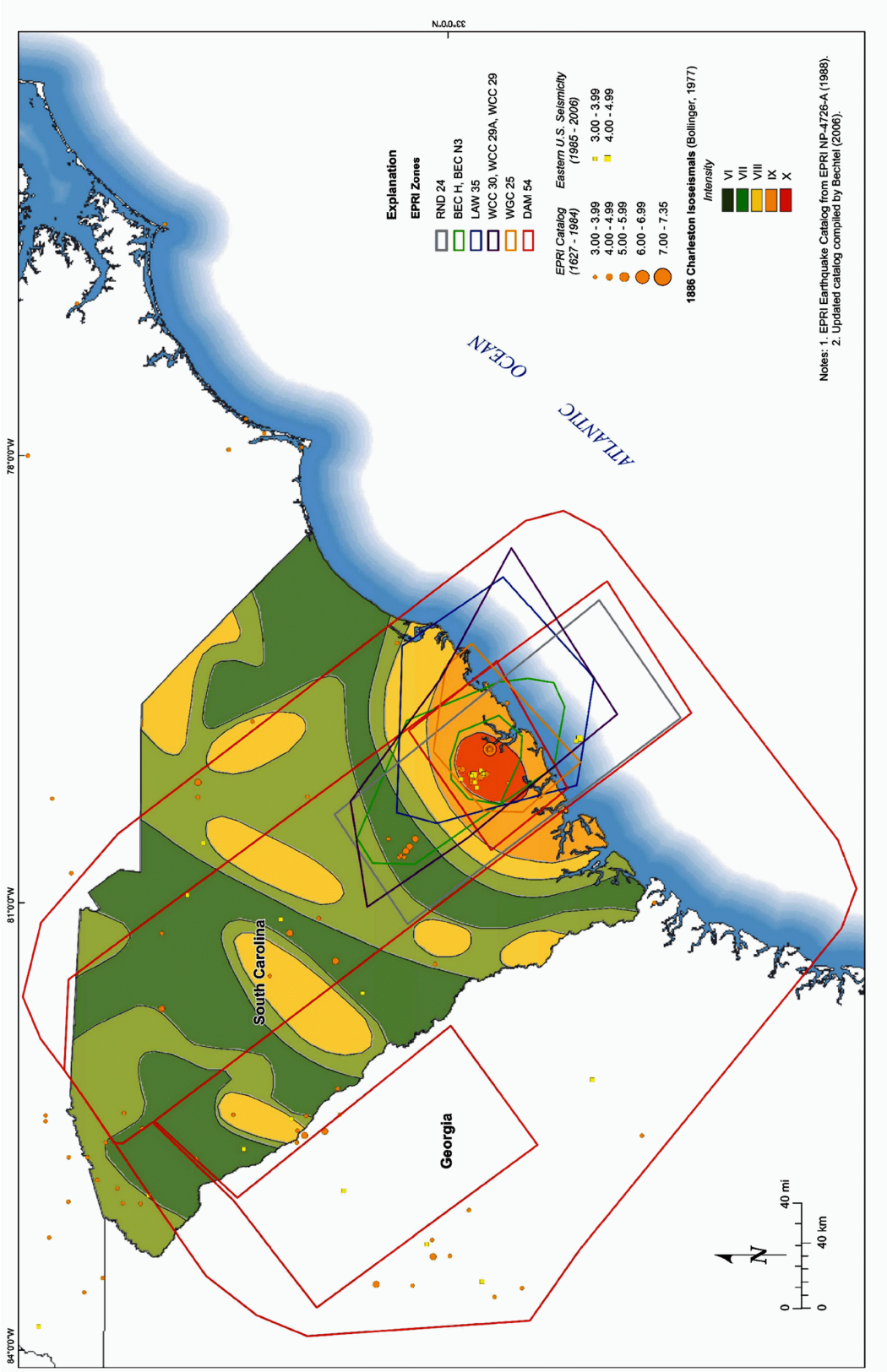
Figure 2.5-55— {EPRI (NP-6452-D 1989) EST's Charleston Map}



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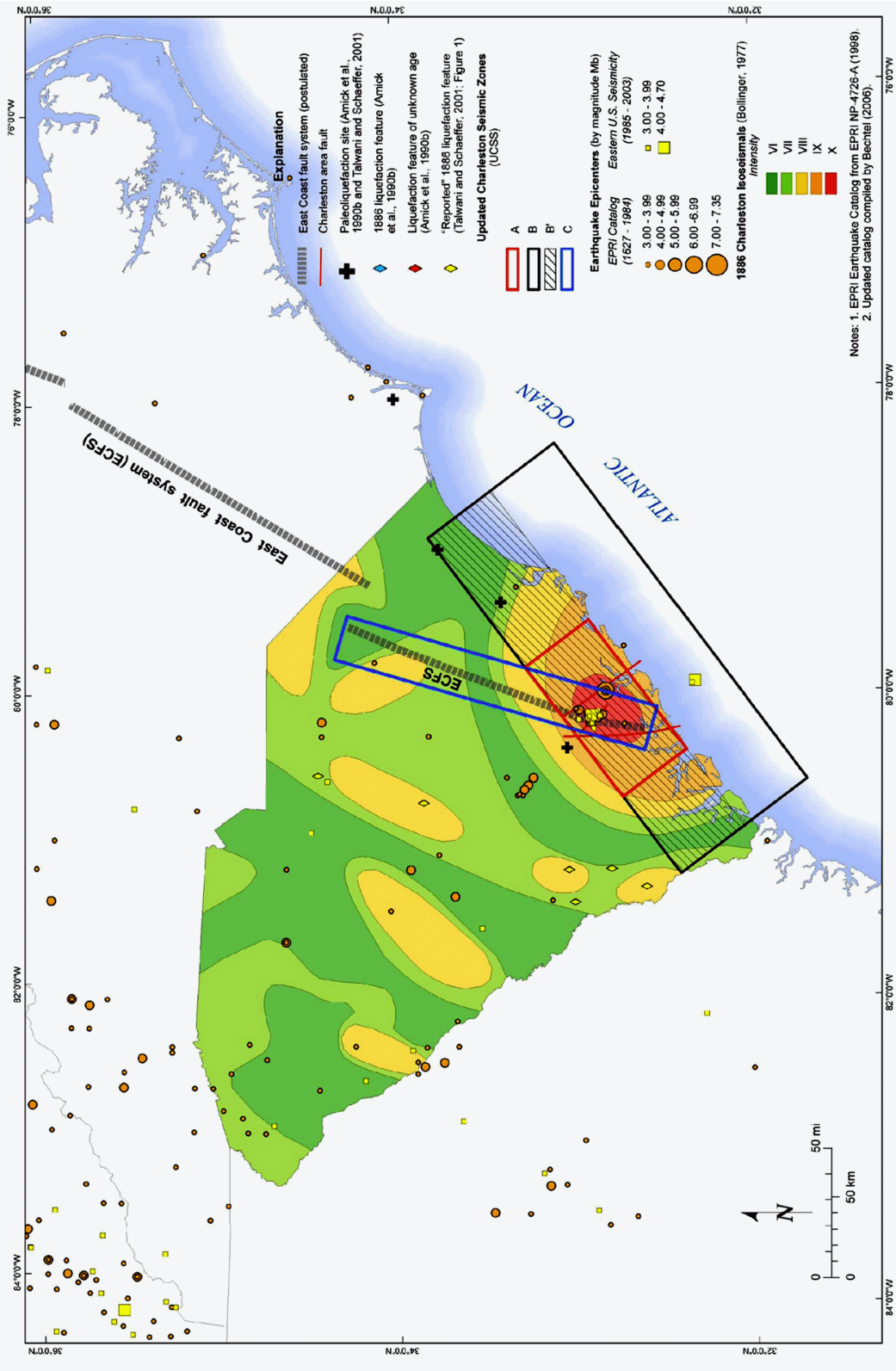

Figure 2.5-56— {UCSS Map}

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Figure 2.5-57— {Regional Charleston Tectonic Features}

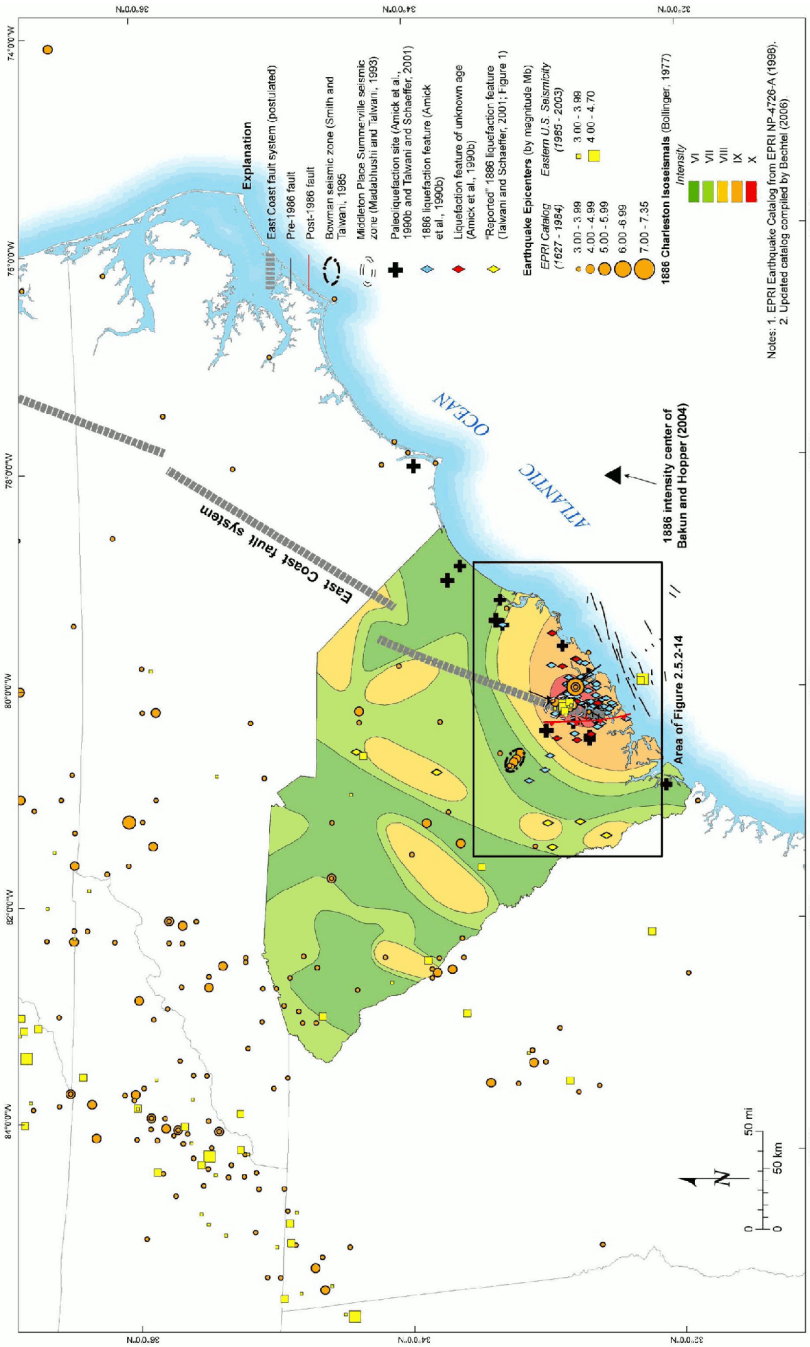

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Figure 2.5-58— {Local Charleston Tectonic Features}

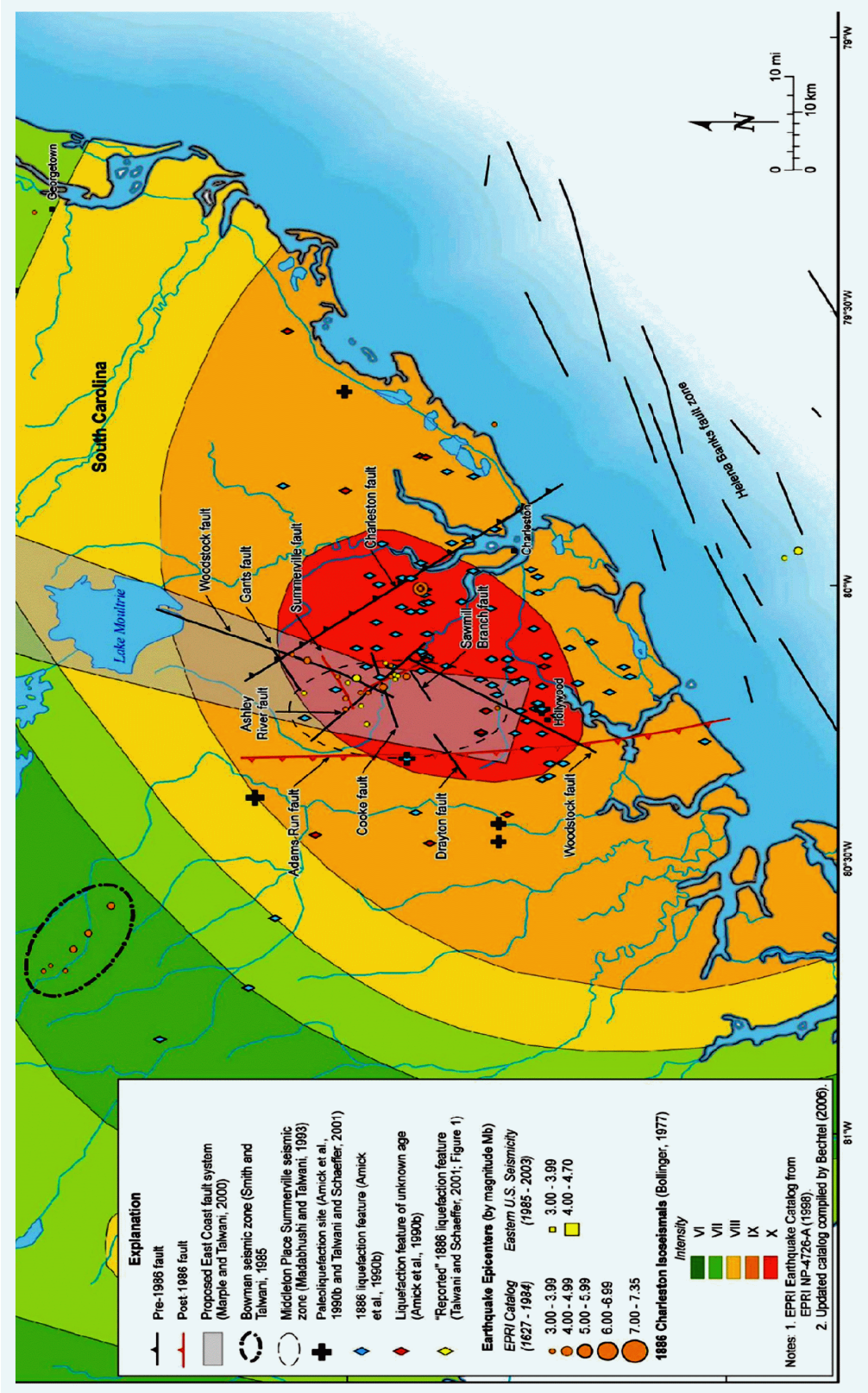

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Figure 2.5-59— {Updated Charleston Seismic Source (UCSS) Logic Tree with Weights for Each Branch Shown in Italics}

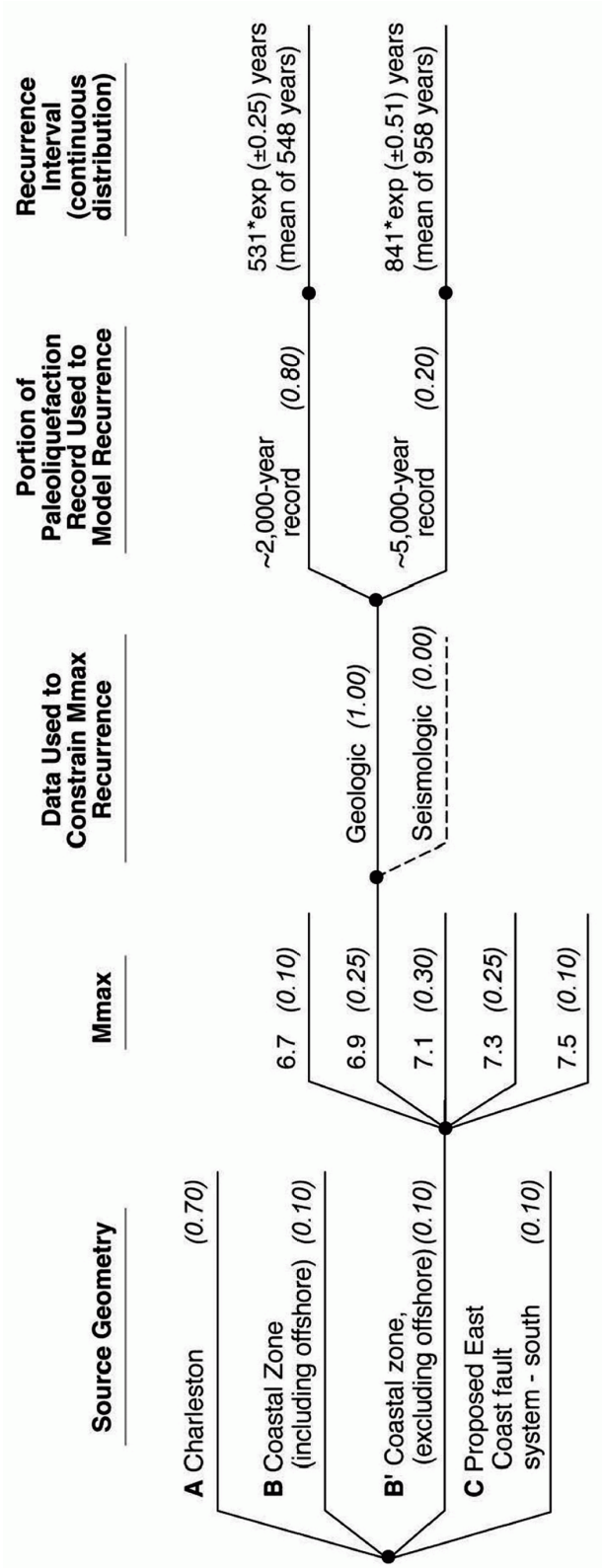

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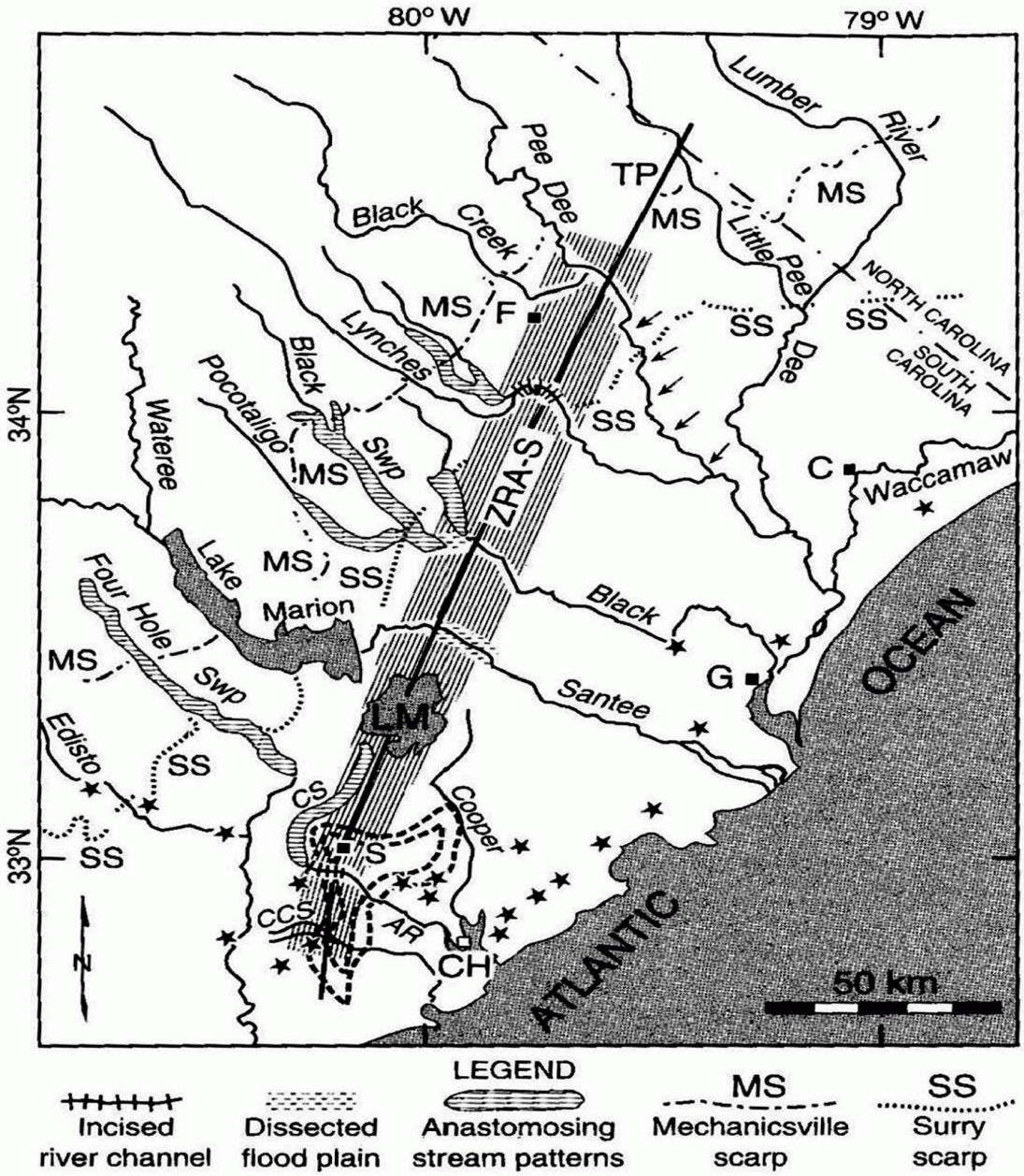
Figure 2.5-60— {Map of ZRA-S}



Map of ZRA-S. Figure shows southern zone of river anomalies (ZRA-S; striped area), anastomosing stream patterns, pre 1886 sand blow sites (stars), and topographic profile (TP, bold line) approximately along the ZRA-S axis. Arrows along Pee Dee River denote reach flowing against southwest valley wall. Closed dashed contours near Summerville are highest intensity isoseismals of the 1886 Charleston, South Carolina, earthquake (from Dutton, 1889). Abbreviations are as follows: AR - Ashley River, C - Conway; CCS - Caw Caw Swamp; CH - Charleston; CS - Cypress Swamp; F - Florence; G - Georgetown; LM - Lake Moultrie; MS - Mechanicsville littoral scarp; S - Summerville; SS - Surry littoral scarp.

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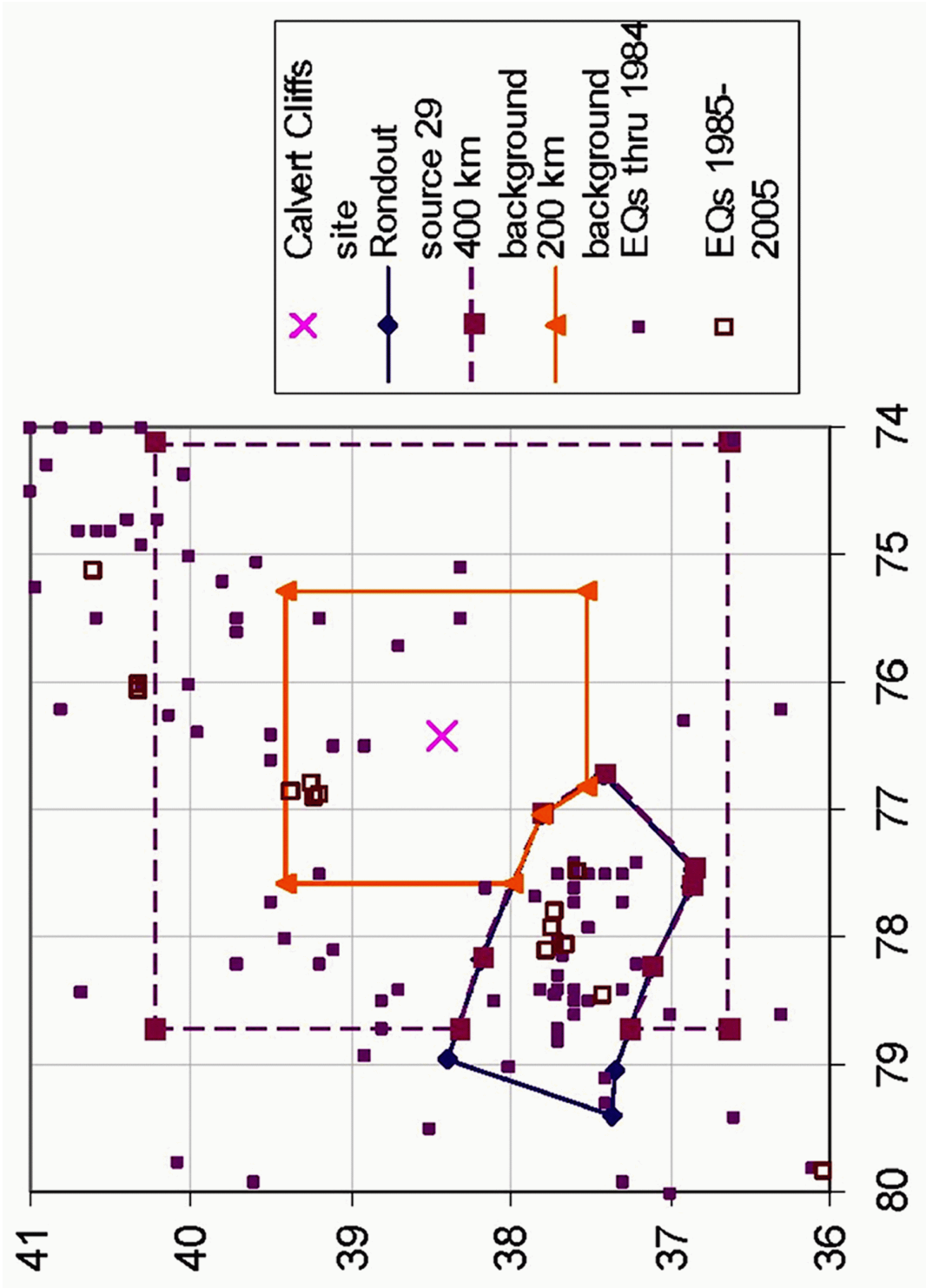

Figure 2.5-61— {Region Surrounding CCNPP Unit 3 Site Showing Rondout Source 29, A 200 km Square Background, A 400 km Square Background, and Historical Earthquakes}

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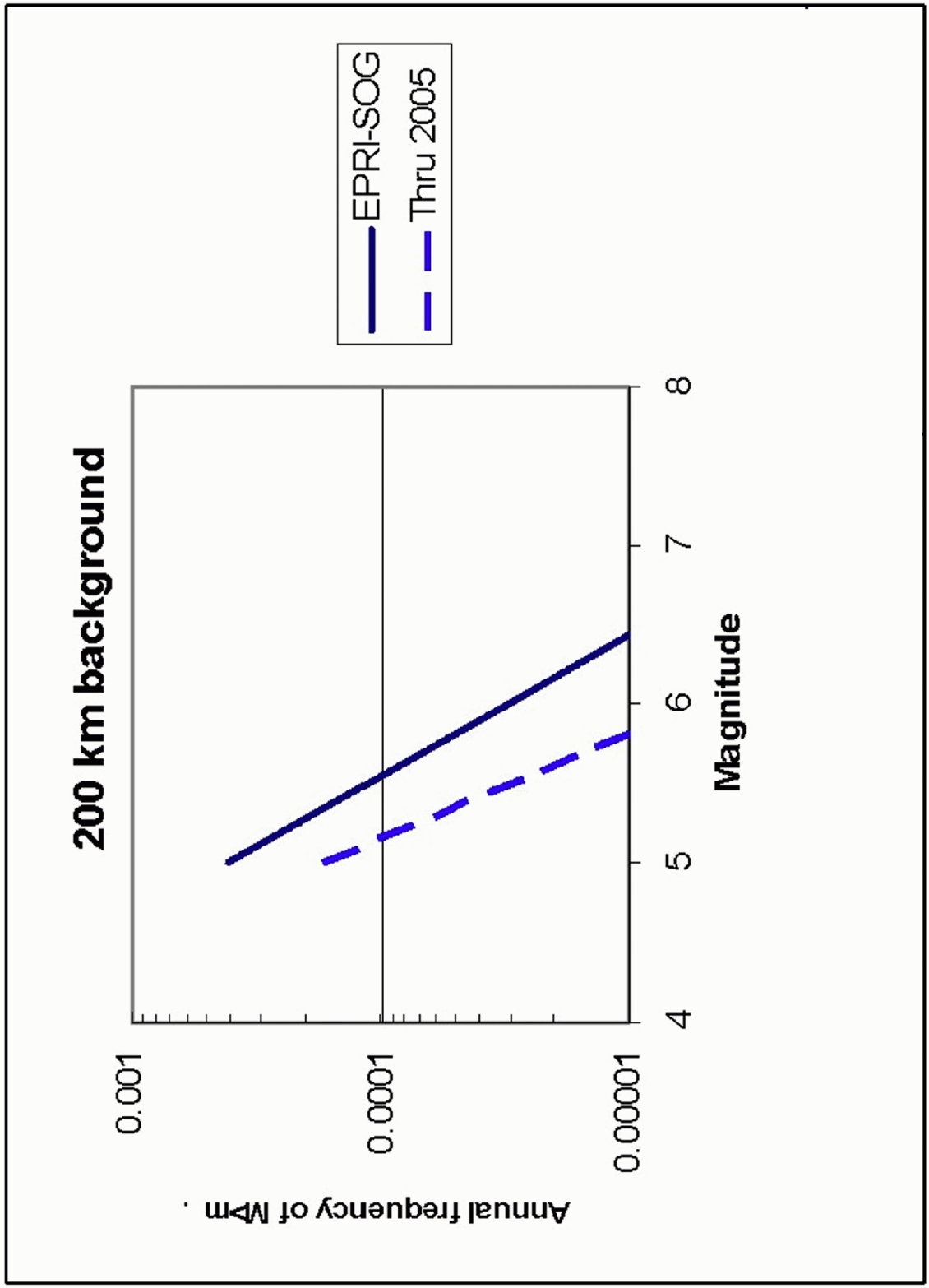

Figure 2.5-62— {Comparison of Seismicity Rate for 200 km Square Background Surrounding CCNPP Unit 3 Site, Using EPRI-SOG Earthquake Catalog and Using Earthquake Catalog Updated Through 2005}

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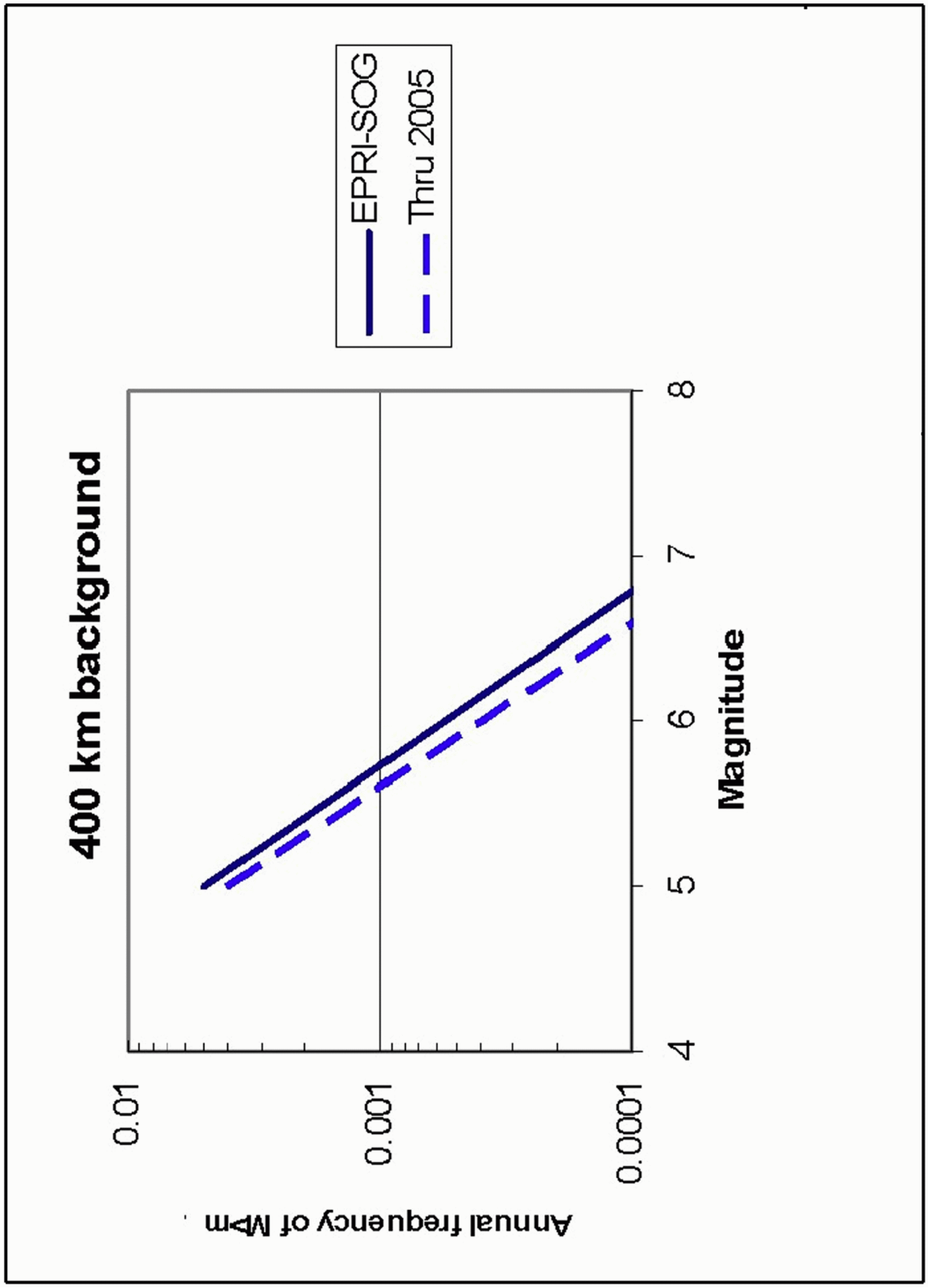

Figure 2.5-63— {Comparison of Seismicity Rate for 400 km Square Background Surrounding CCNPP Unit 3 Site, Using EPRI-SOG Earthquake Catalog and Using the Earthquake Catalog Updated Through 2005}

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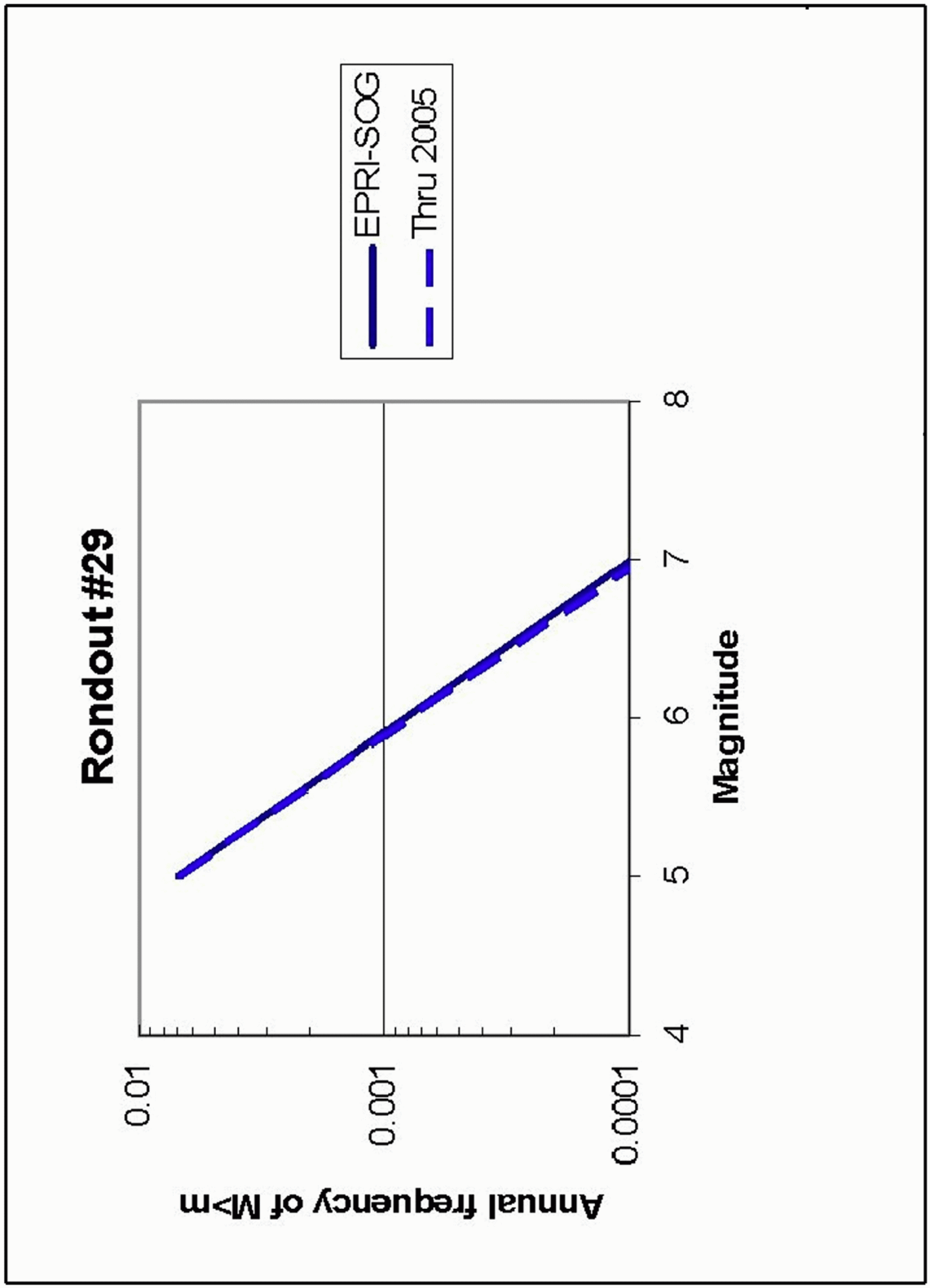
Figure 2.5-64— {Comparison of Seismicity Rate for Rondout Source 29, Using EPRI SOG Earthquake Catalog and Using Earthquake Catalog Updated Through 2005}



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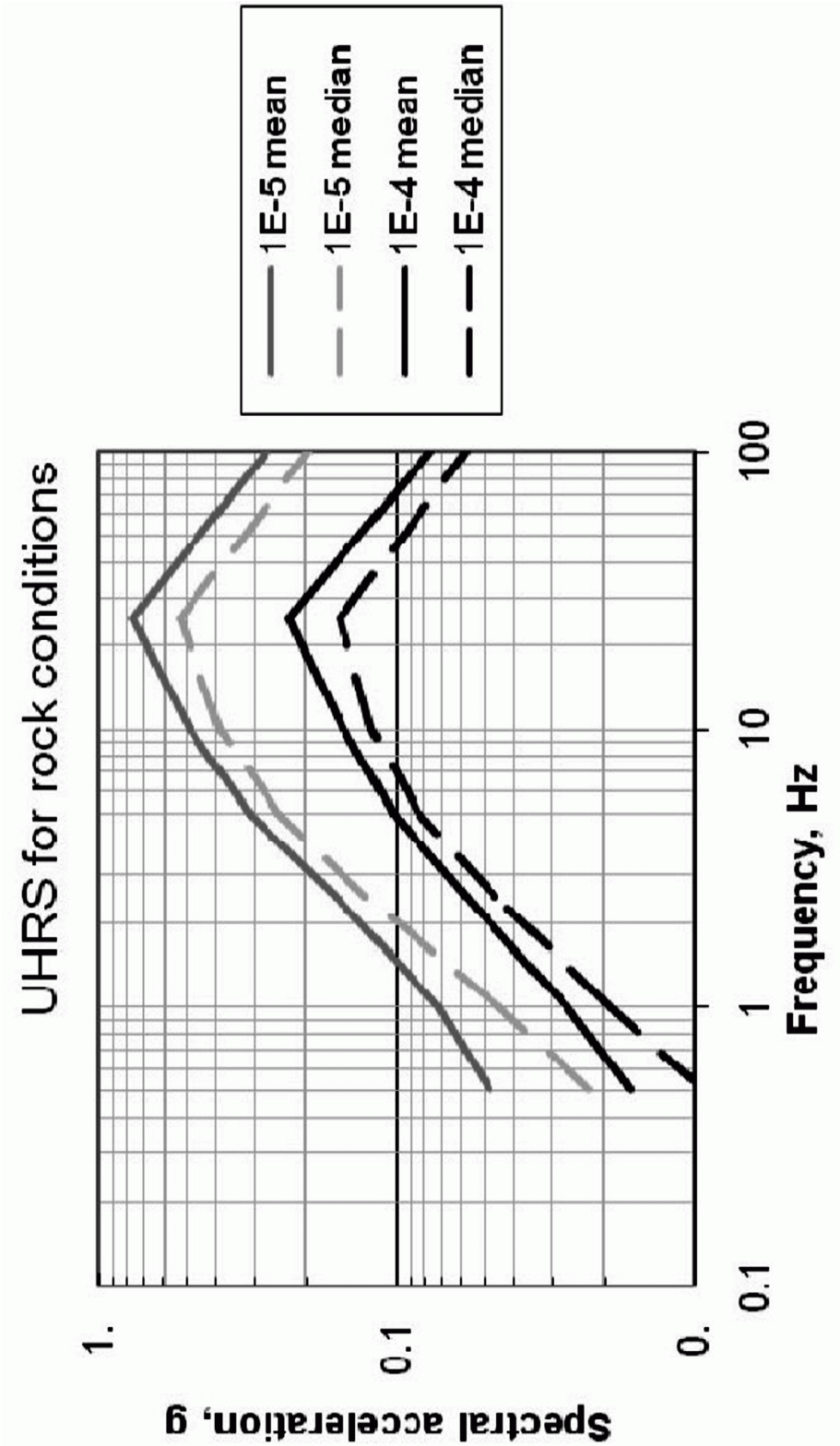

Figure 2.5-65— {Uniform Hazard Spectra for Rock Conditions at Seven Structural Frequencies for which Ground Motion Equations are Available}

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Figure 2.5-66— {Mean 10^{-4} Rock Deaggregation for 1 and 2.5Hz}

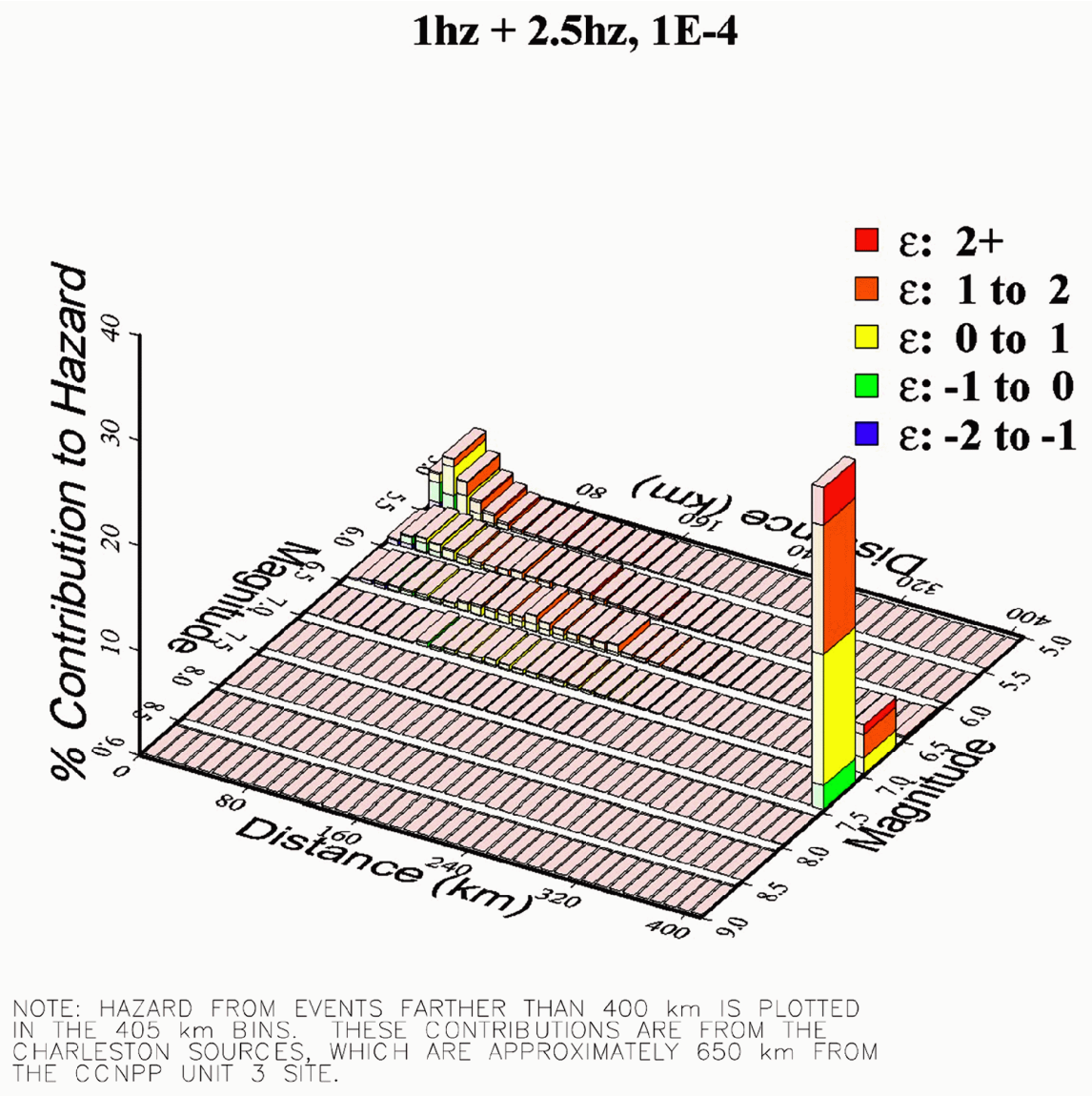

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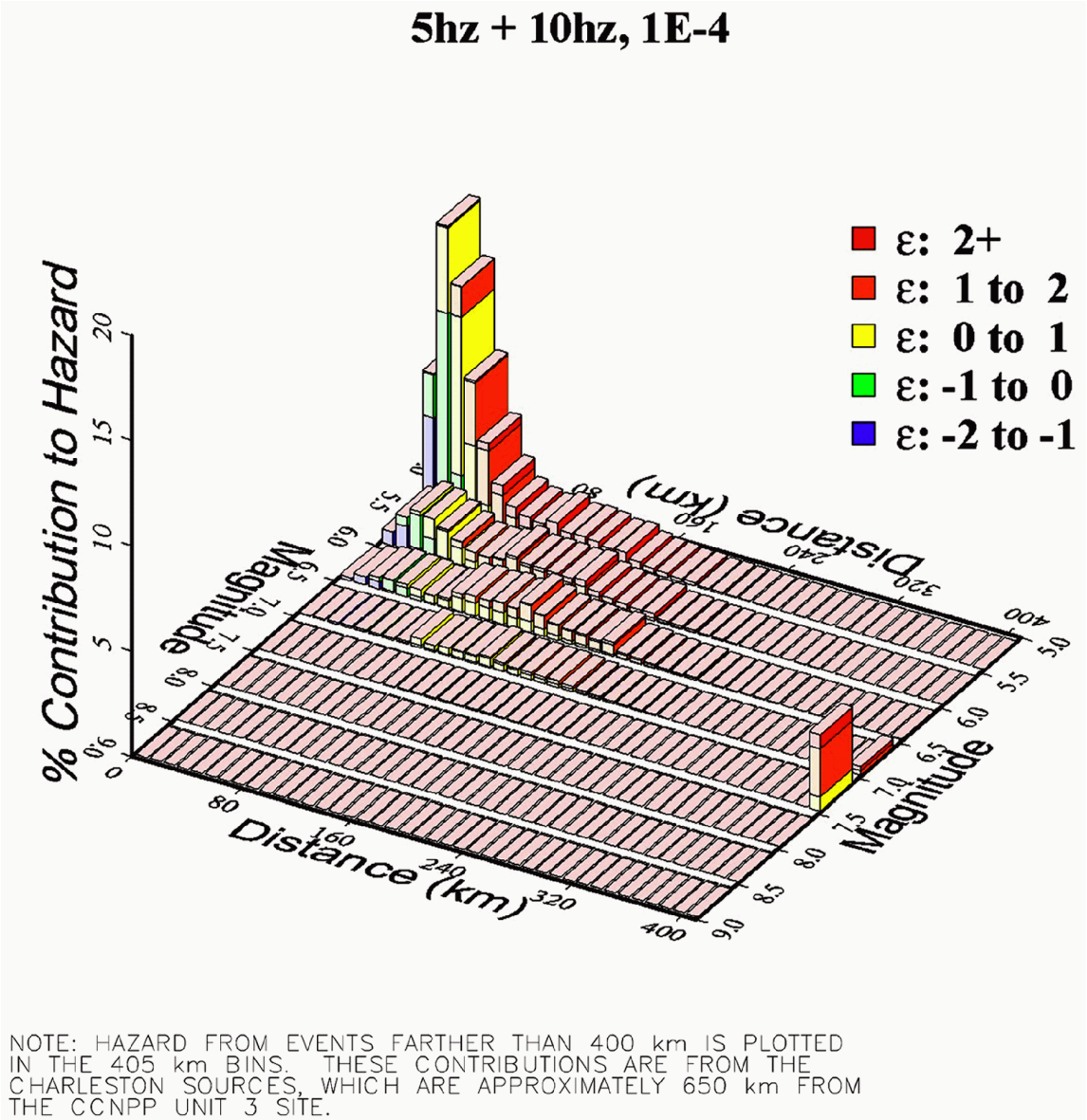
Figure 2.5-67— {Mean 10^{-4} Rock Deaggregation for 5 and 10 Hz}



NOTE: HAZARD FROM EVENTS FARTHER THAN 400 km IS PLOTTED IN THE 405 km BINS. THESE CONTRIBUTIONS ARE FROM THE CHARLESTON SOURCES, WHICH ARE APPROXIMATELY 650 km FROM THE CCNPP UNIT 3 SITE.

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Figure 2.5-68— {Mean 10^{-5} Rock Deaggregation for 1 and 2.5 Hz}

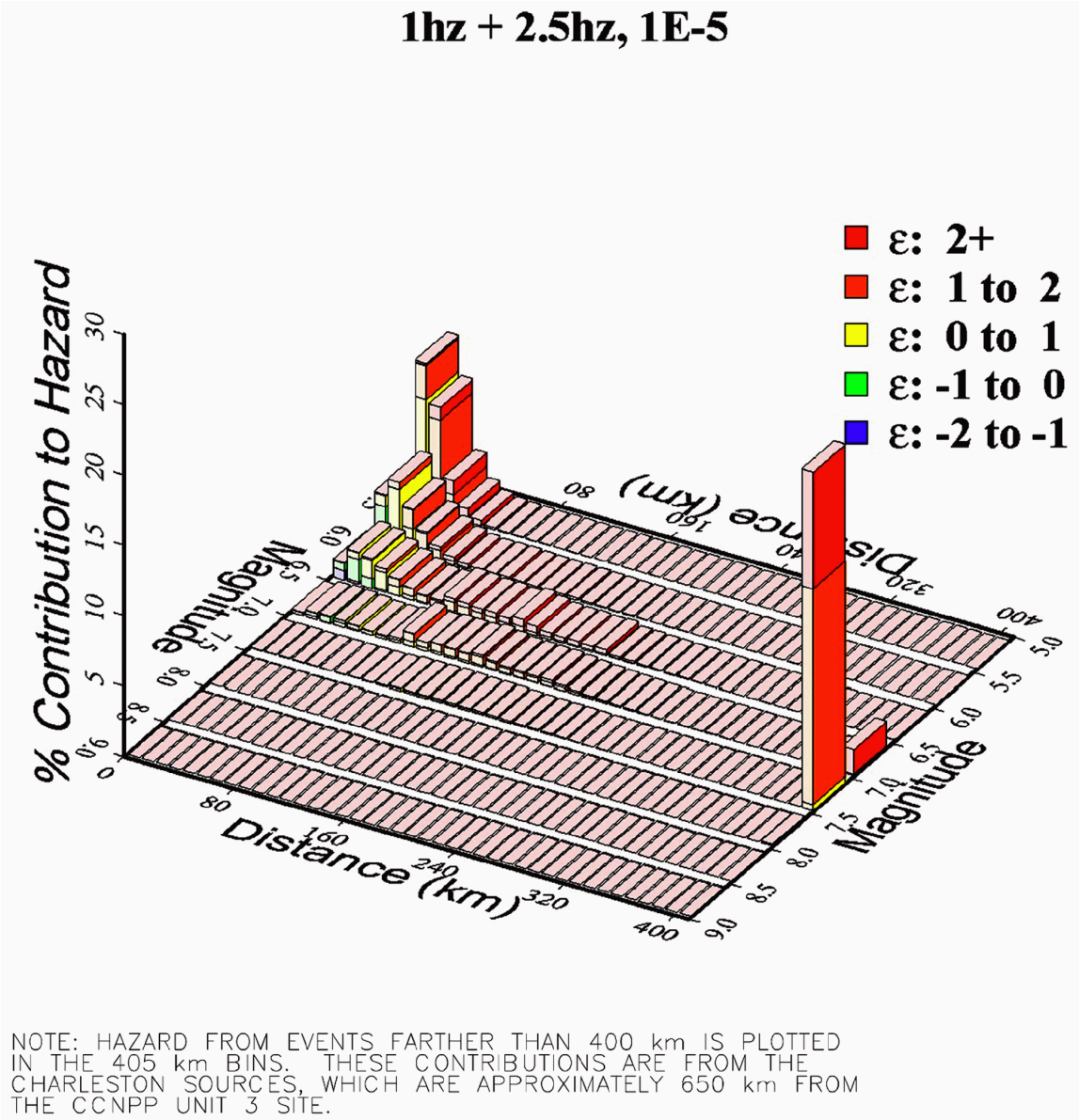

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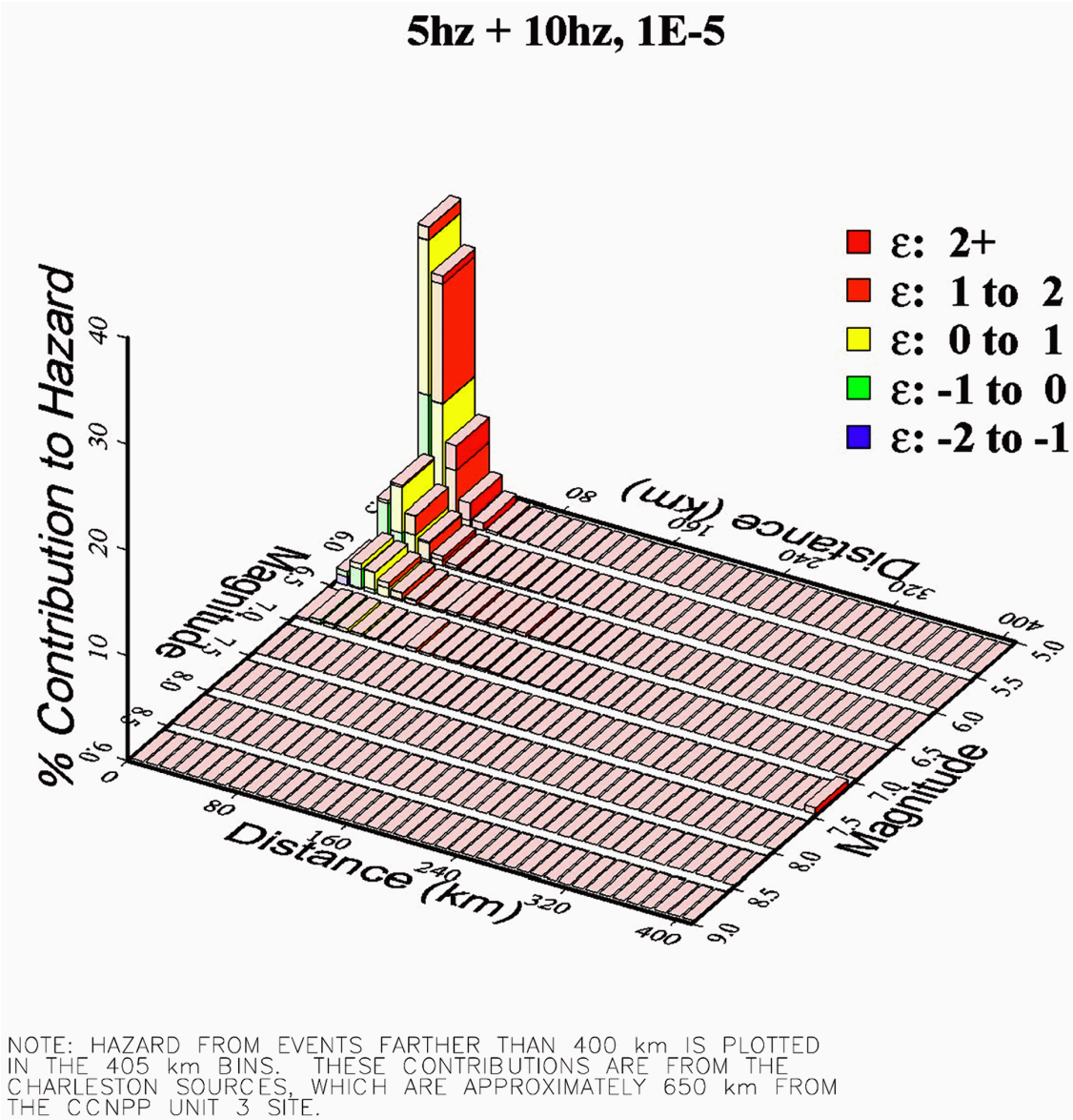
Figure 2.5-69— {Mean 10^{-5} Rock Deaggregation for 5 and 10 Hz}



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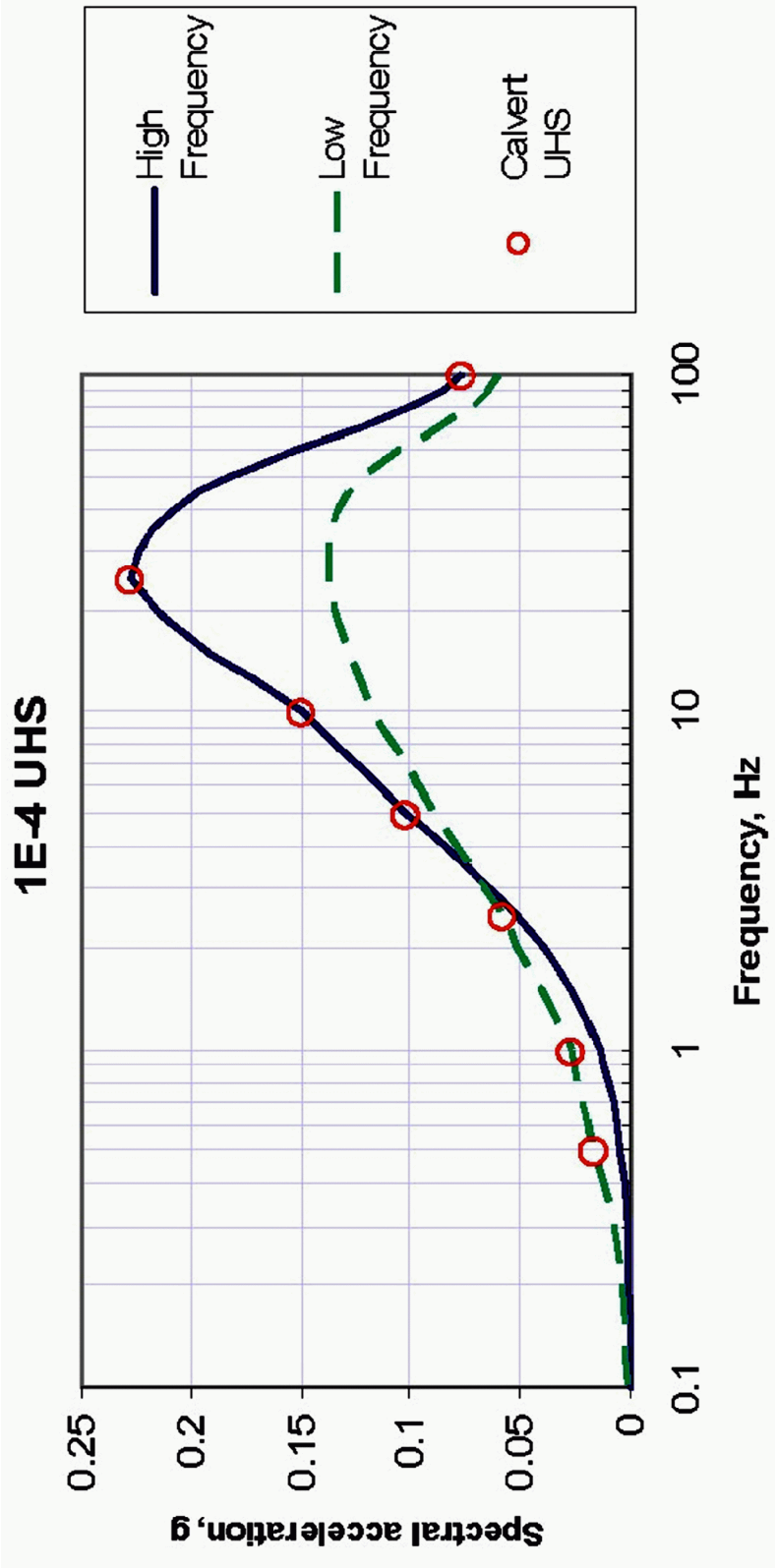

Figure 2.5-70— {10^{-4} Rock UHS Valus and Smooth Spectra Fit to HF and LF Spectral Shapes}

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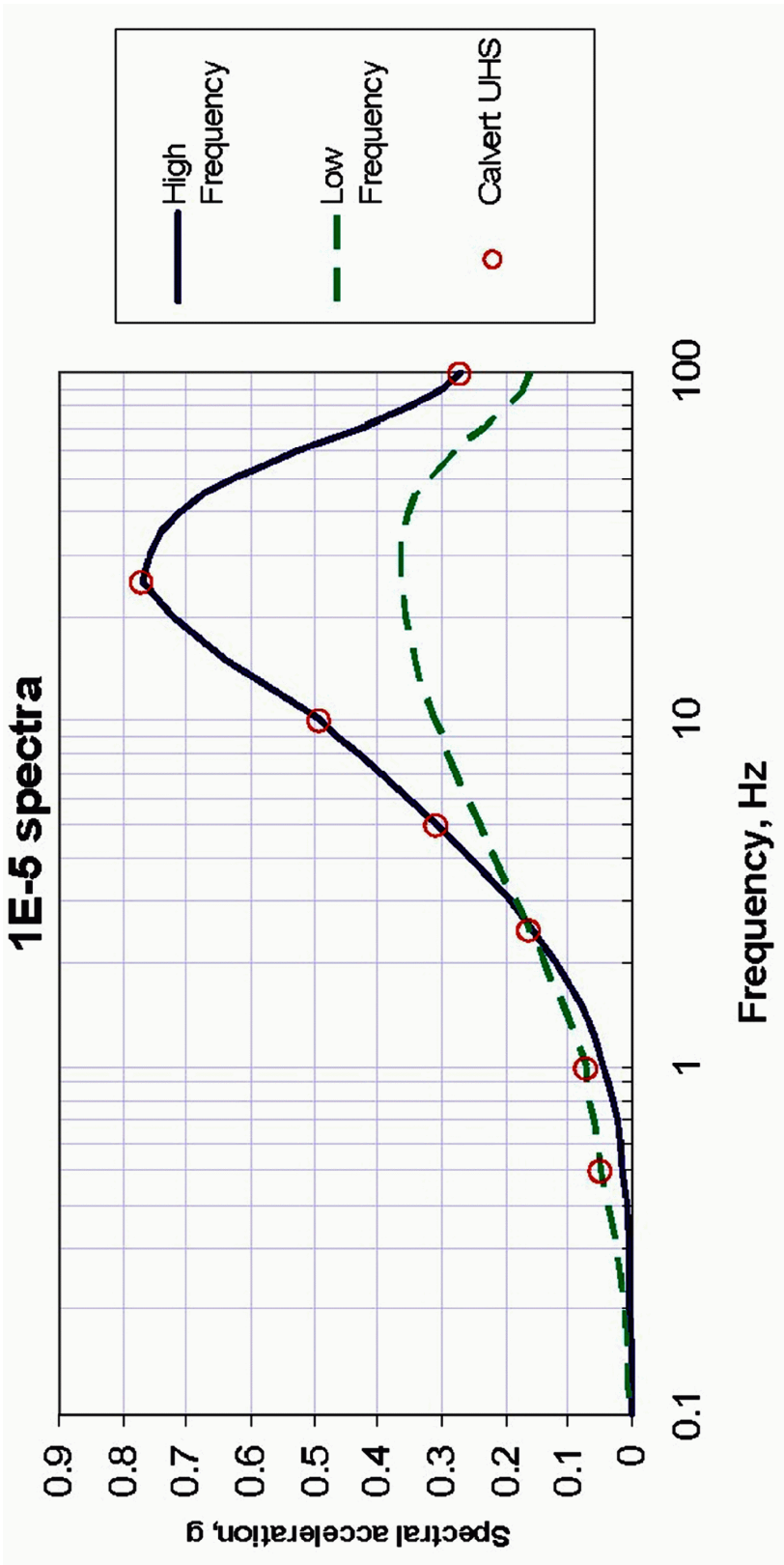

Figure 2.5-71 — {10^{-5} Rock UHS Values and Smooth Spectra Fit to HF and LF Spectral Shapes}

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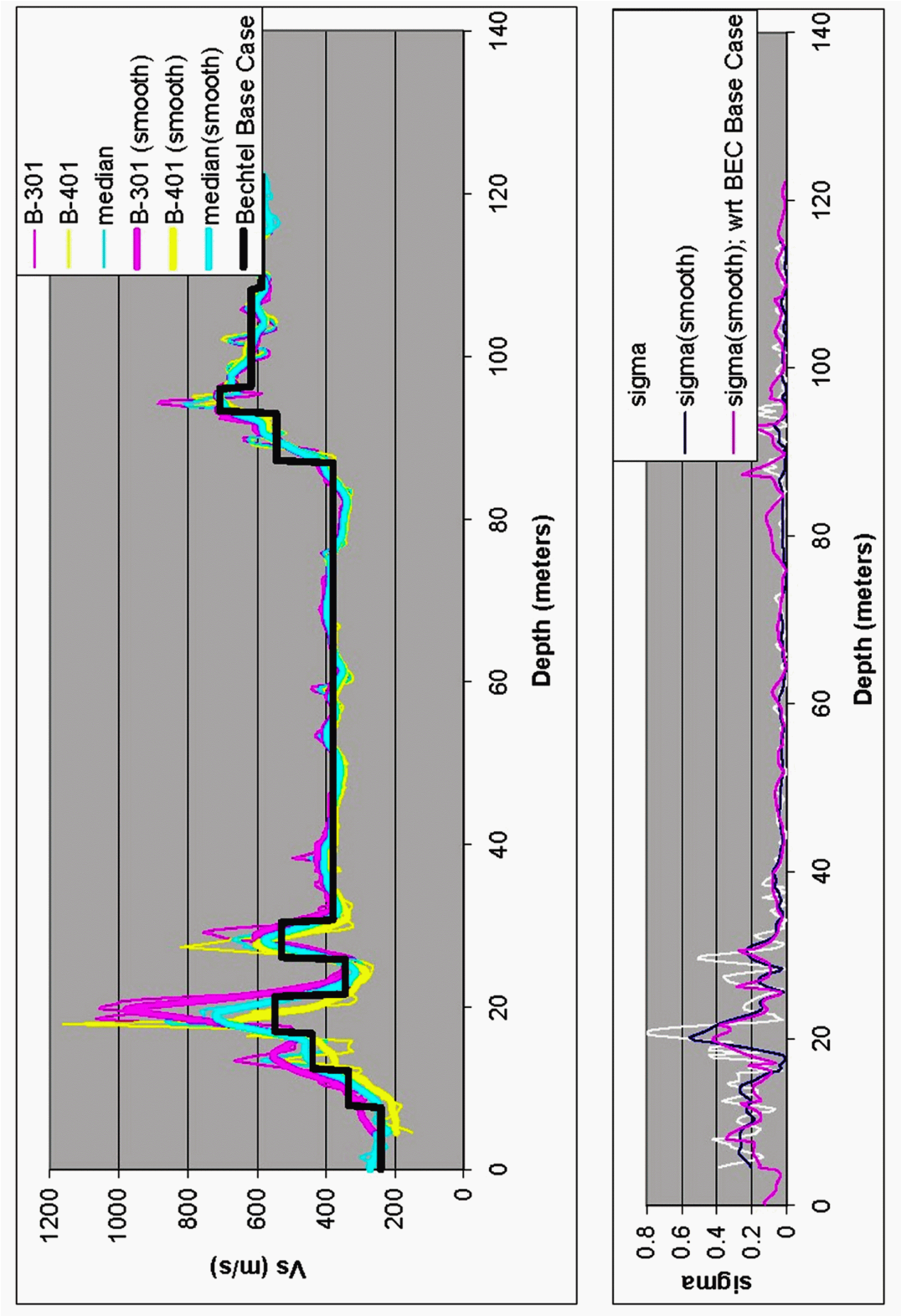

Figure 2.5-72— {Shear Wave Velocity (V_S) and Its Logarithmic Standard Devision for the Top 140 m}

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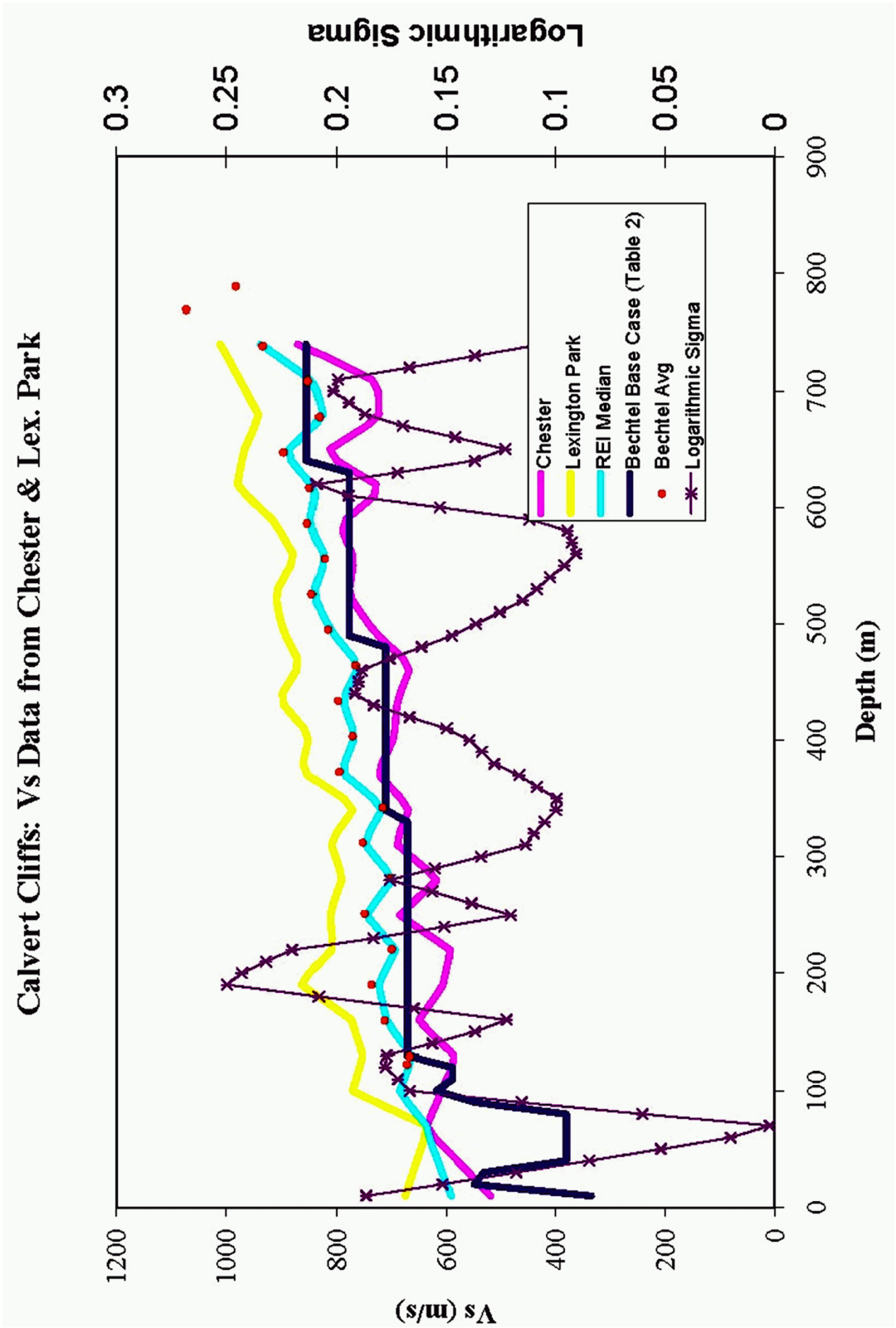

Figure 2.5-73— {Shear-Wave Velocity (Vs) and It's Logarithmic Standard Deviation, Used for depths from 140 m to 800 m Using Data From Chester and Lexington Park Wells}

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Figure 2.5-74— {Shear-Wave Velocity (Vs) vs Depth or Profiles 1 through 10}

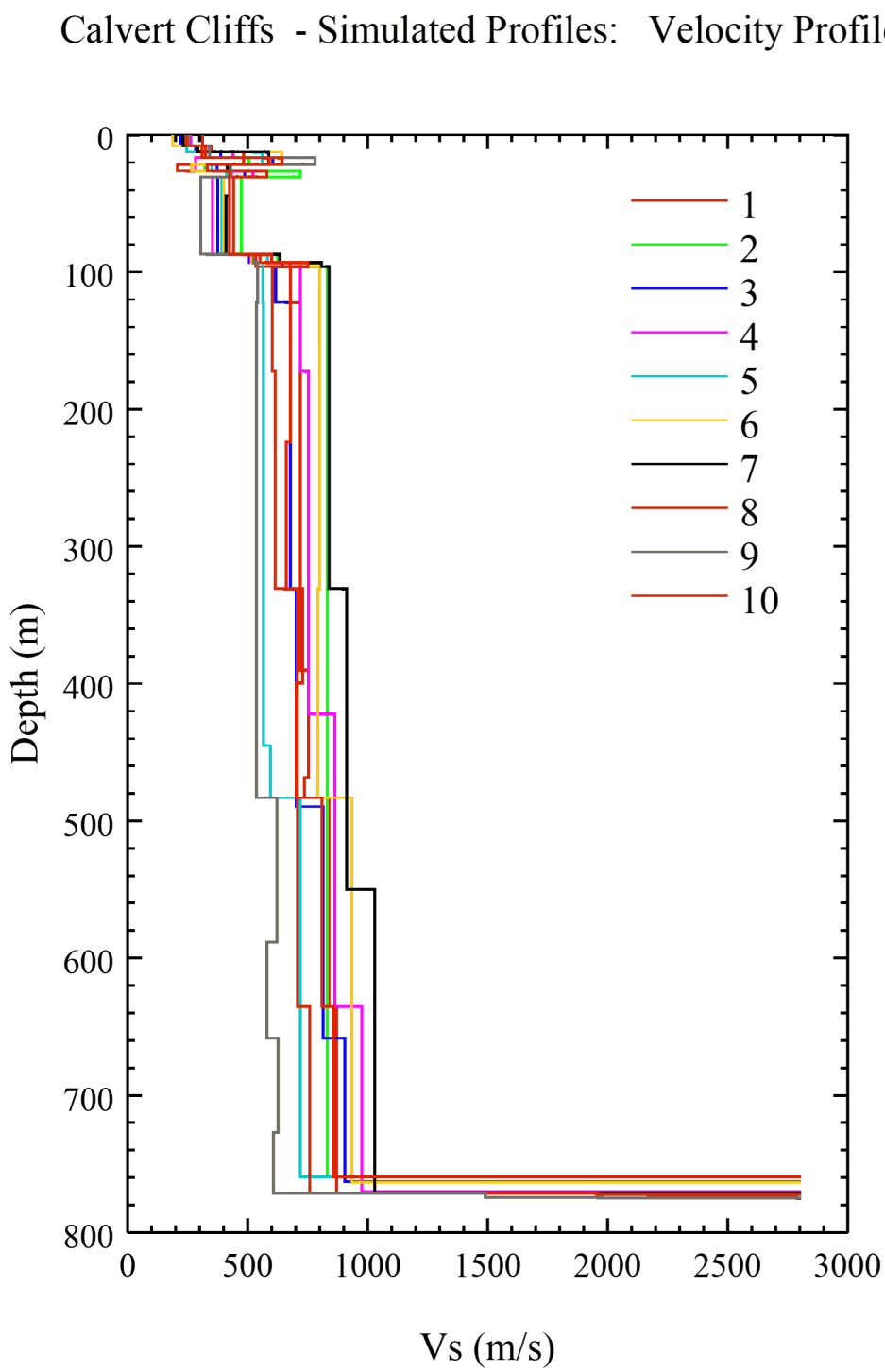

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Figure 2.5-75— {Median (Mean of Logarithmic Values) ±Standard Deviation (ó of Log Values) of Shear Wave Velocity (VS) vs Depth for All 60 Profiles (Thin Solid and Dashed Lines, Compared to Median VS Profile (red)}

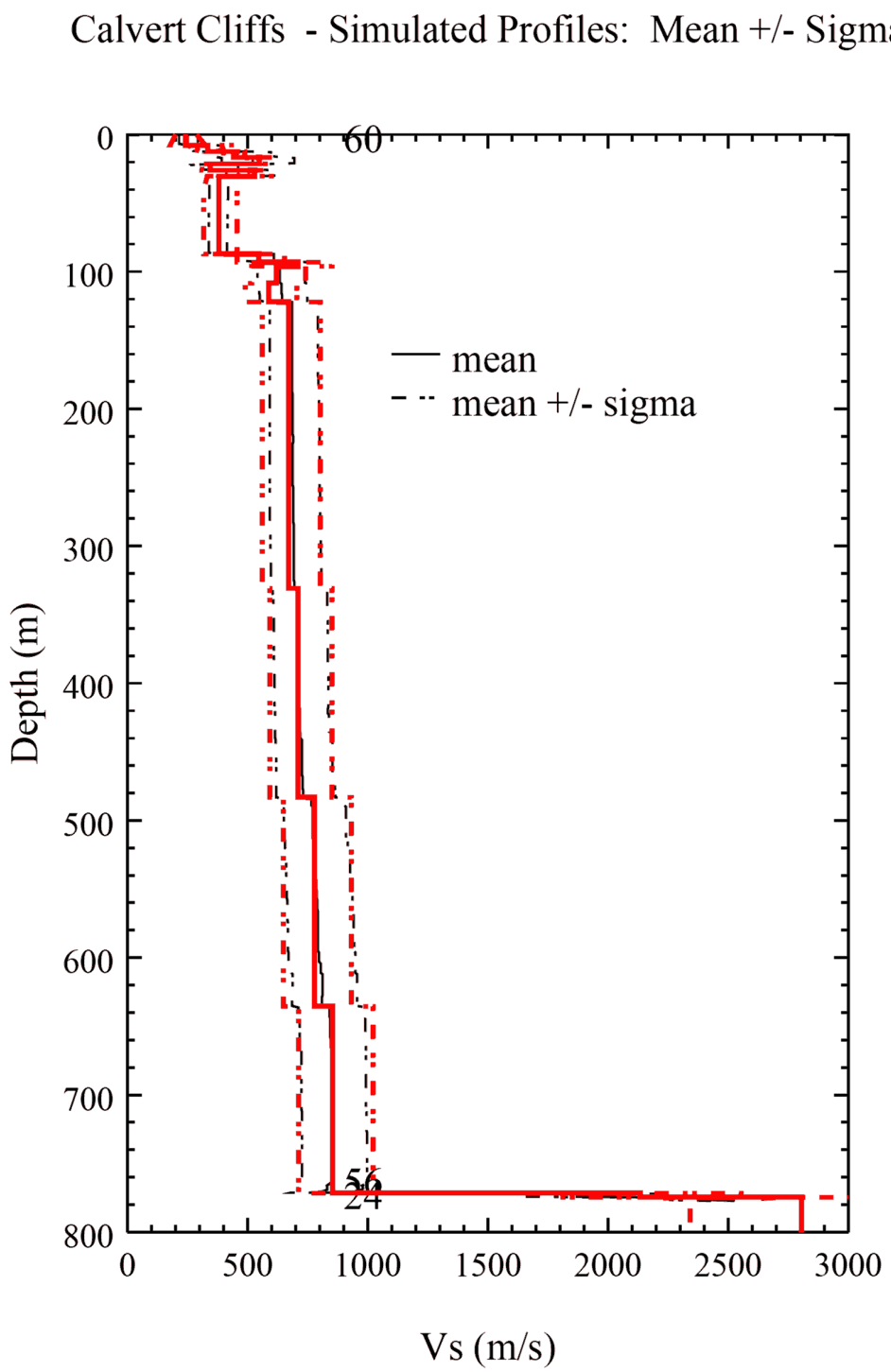

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Figure 2.5-76— {G/G$_{max}$ Curves Representing Uncertainty in Shear Stiffness for Soil Type 2 (Chesapeake Clay/Silt}

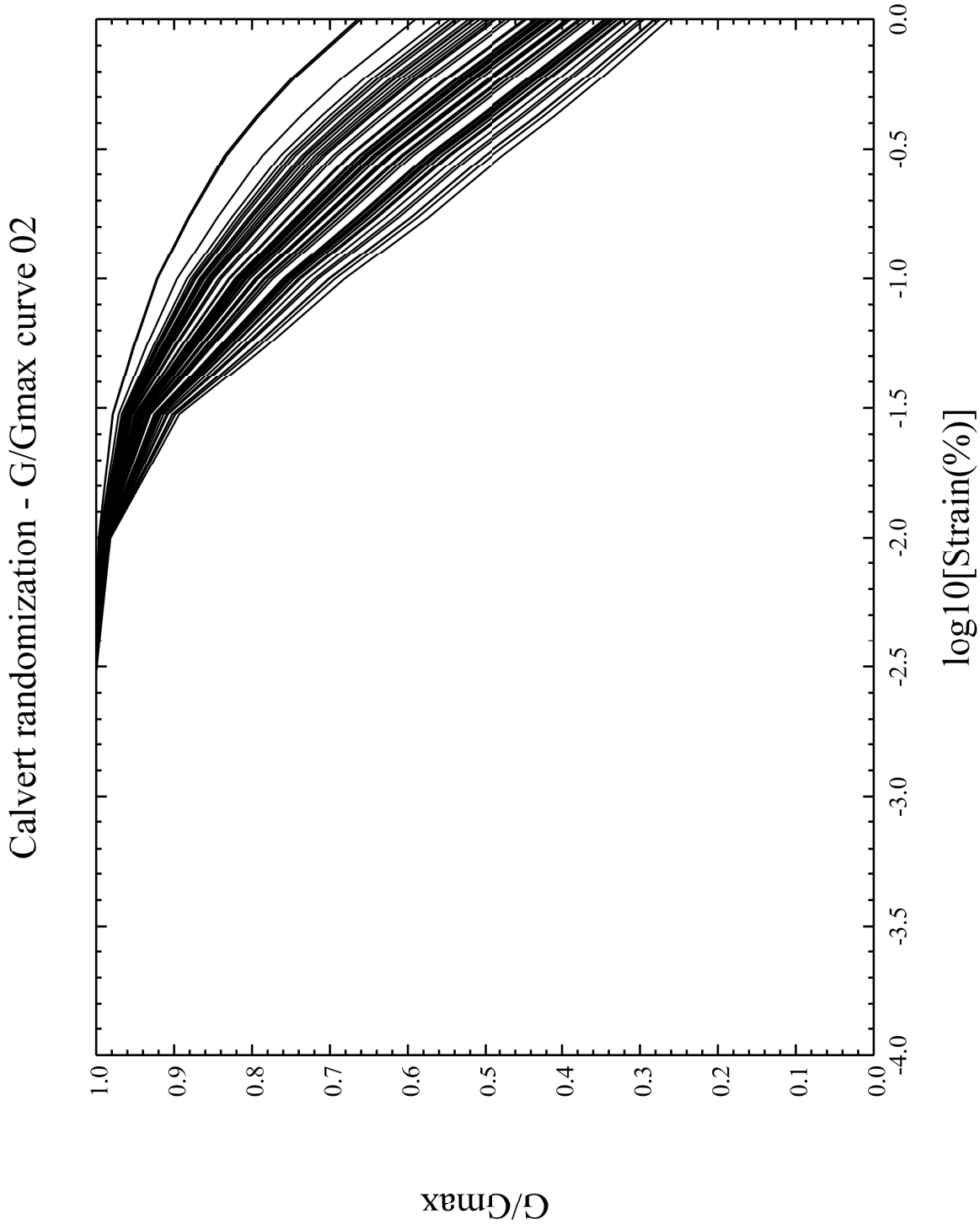

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Figure 2.5-77— {Damping Curves Representing Uncertainty in Shear Stiffness for Soil Type 2 (Chesapeake Clay/Silt)}

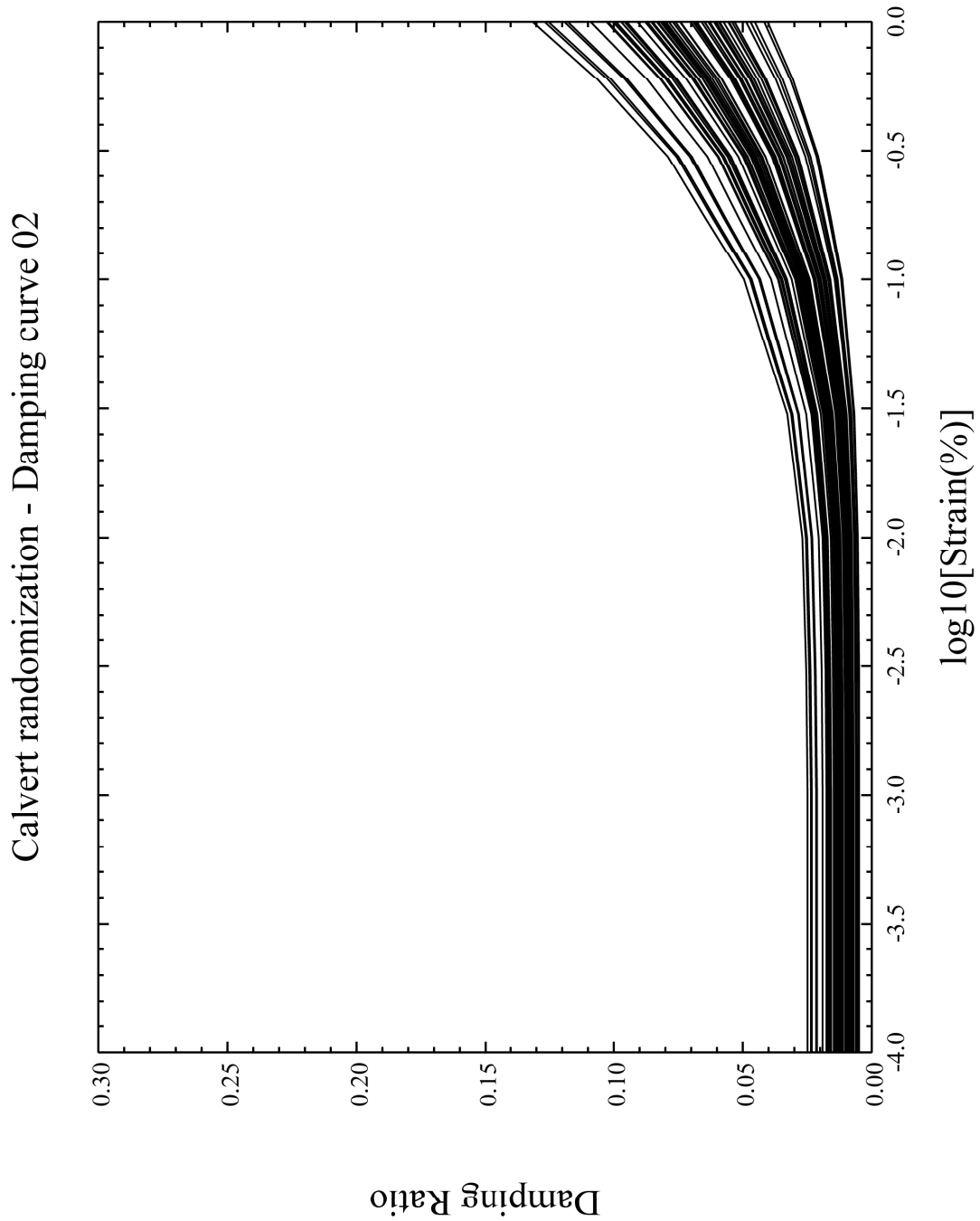

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Figure 2.5-78— {Logarithmic Mean Site Amplification Factor and Standard Deviation at the Top of a Soil Column with no Backfill for 10^{-4} HF Input Motion}

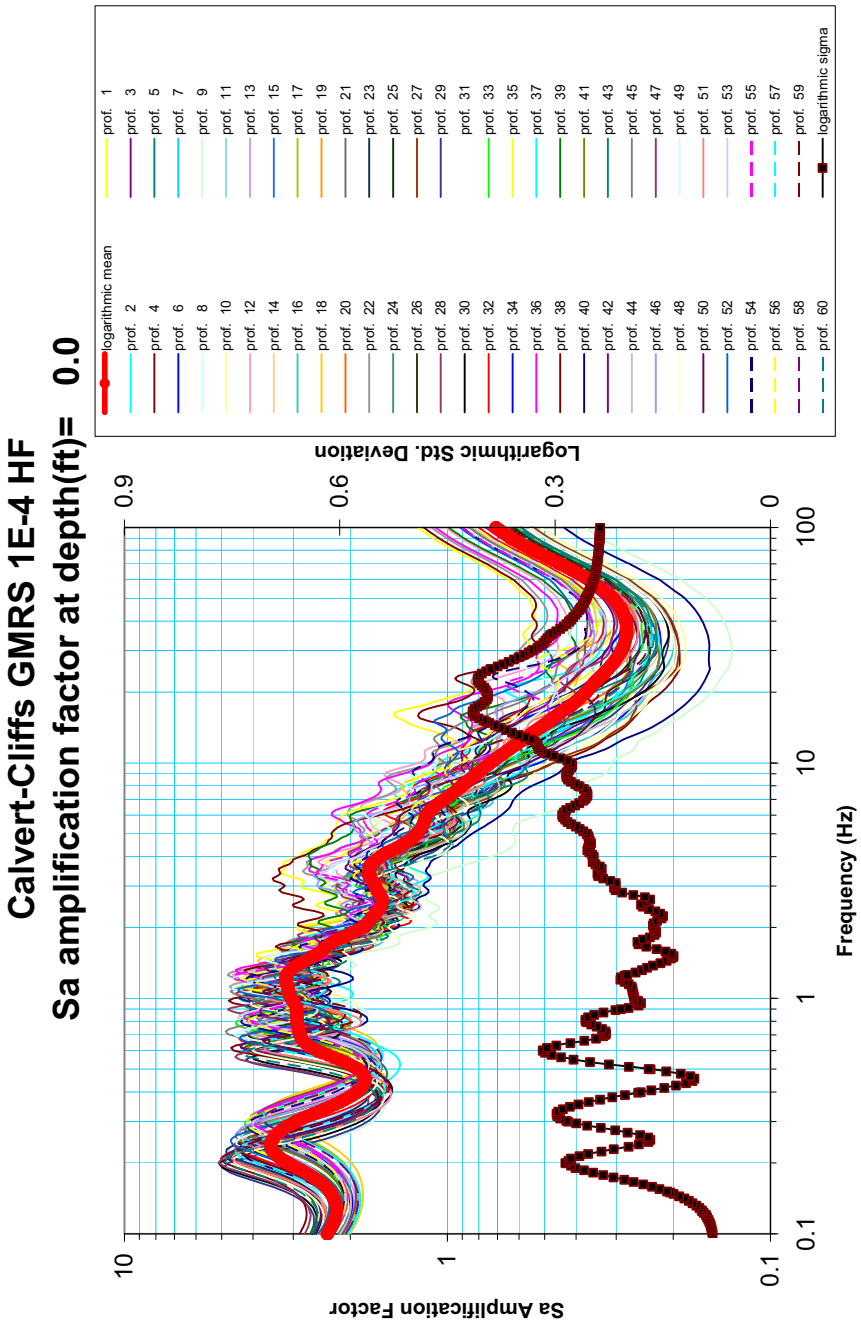

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Figure 2.5-79— {Maximum Strains vs. Depth for 10^{-4} HF Input Motion}

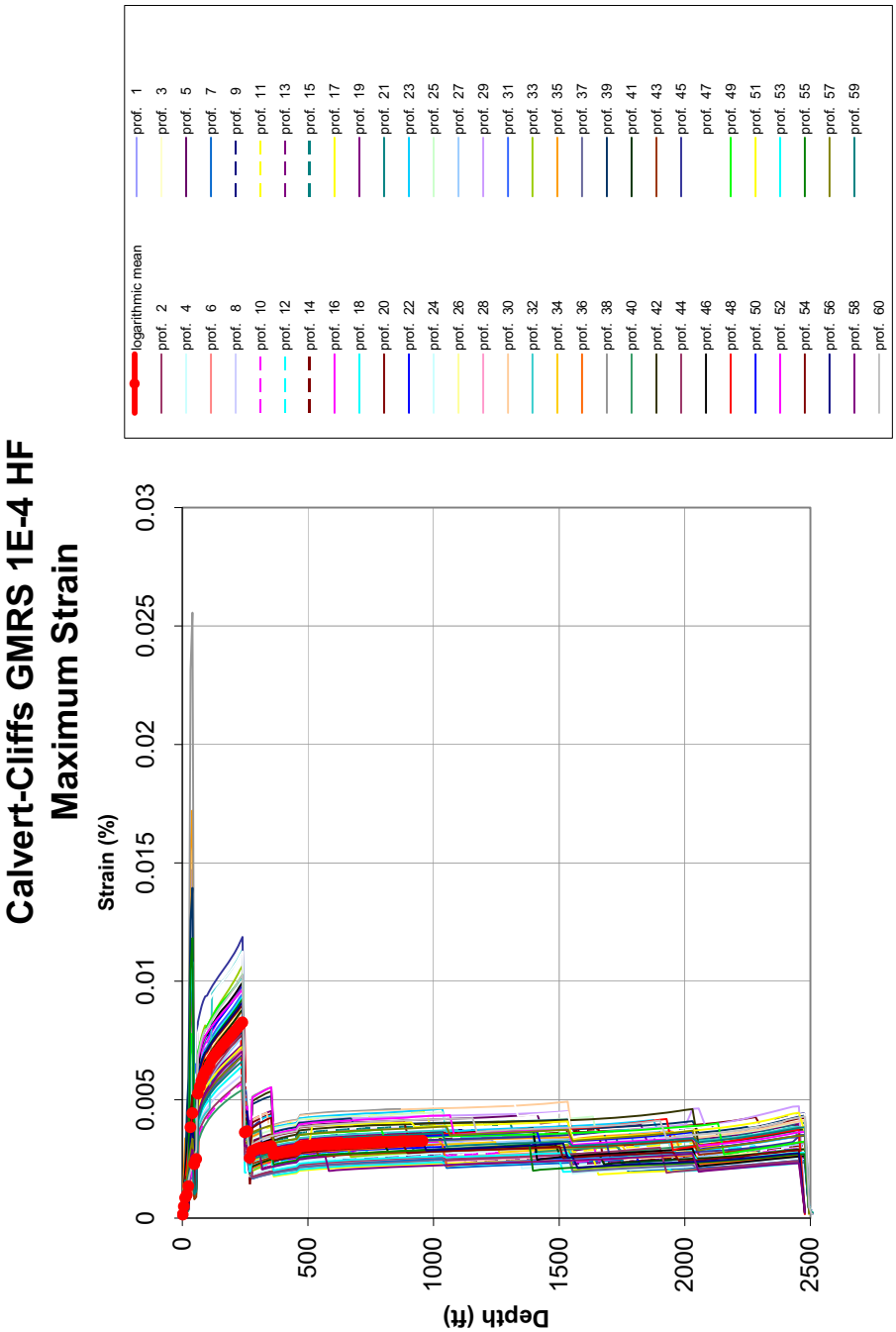

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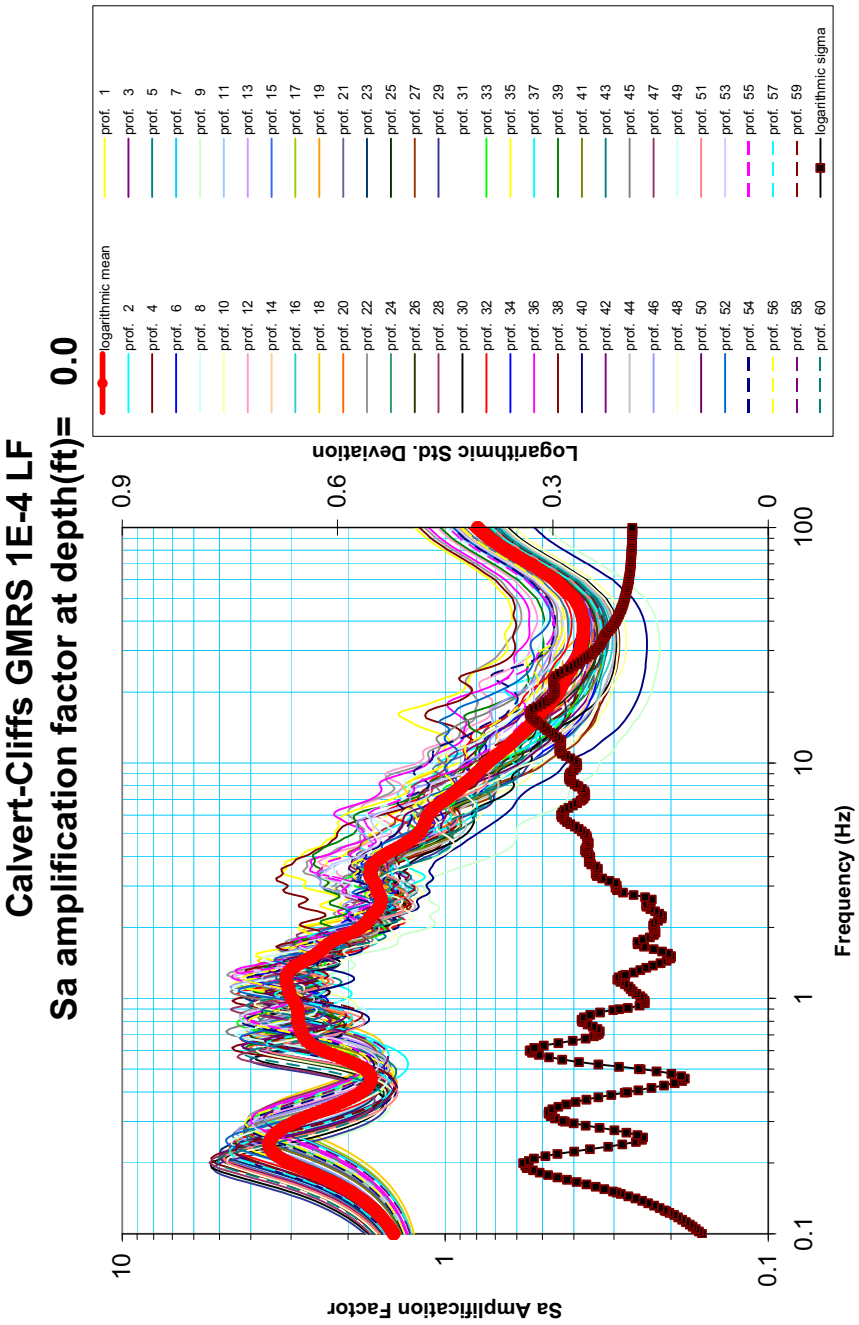
Figure 2.5-80— {Logarithmic Mean Site Amplification Factor and Standard Deviation at the Top of a Soil Column with no Backfill for 10^{-4} LF Input Motion}



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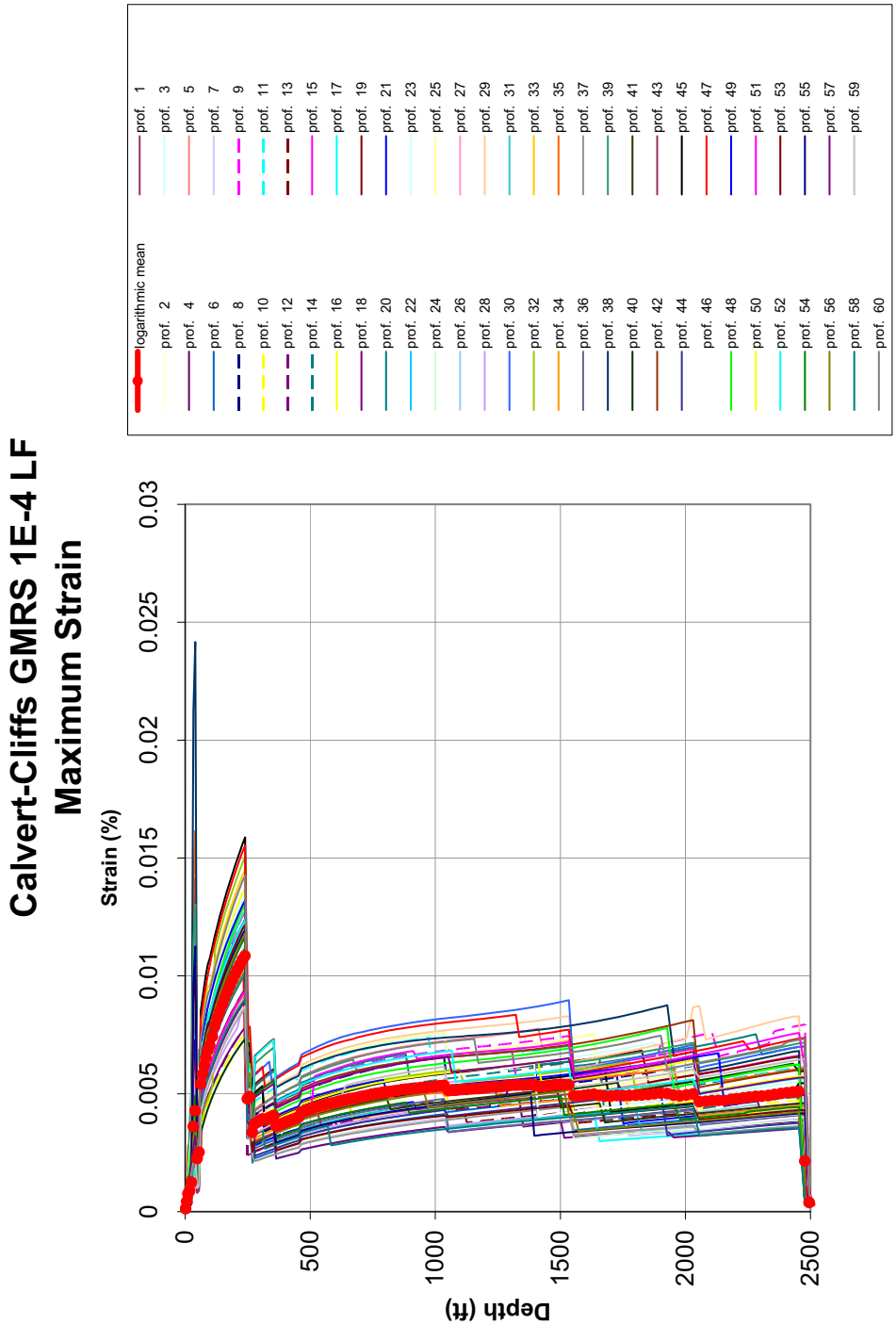

Figure 2.5-81— {Maximum Strains vs. Depth for 10^{-4} LF Input Motion}

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Figure 2.5-82— {Logarithmic Mean Site Amplification Factor and Standard Deviation at the Top of a Soil Column with no Backfill for 10^{-5} HF Input Motion}

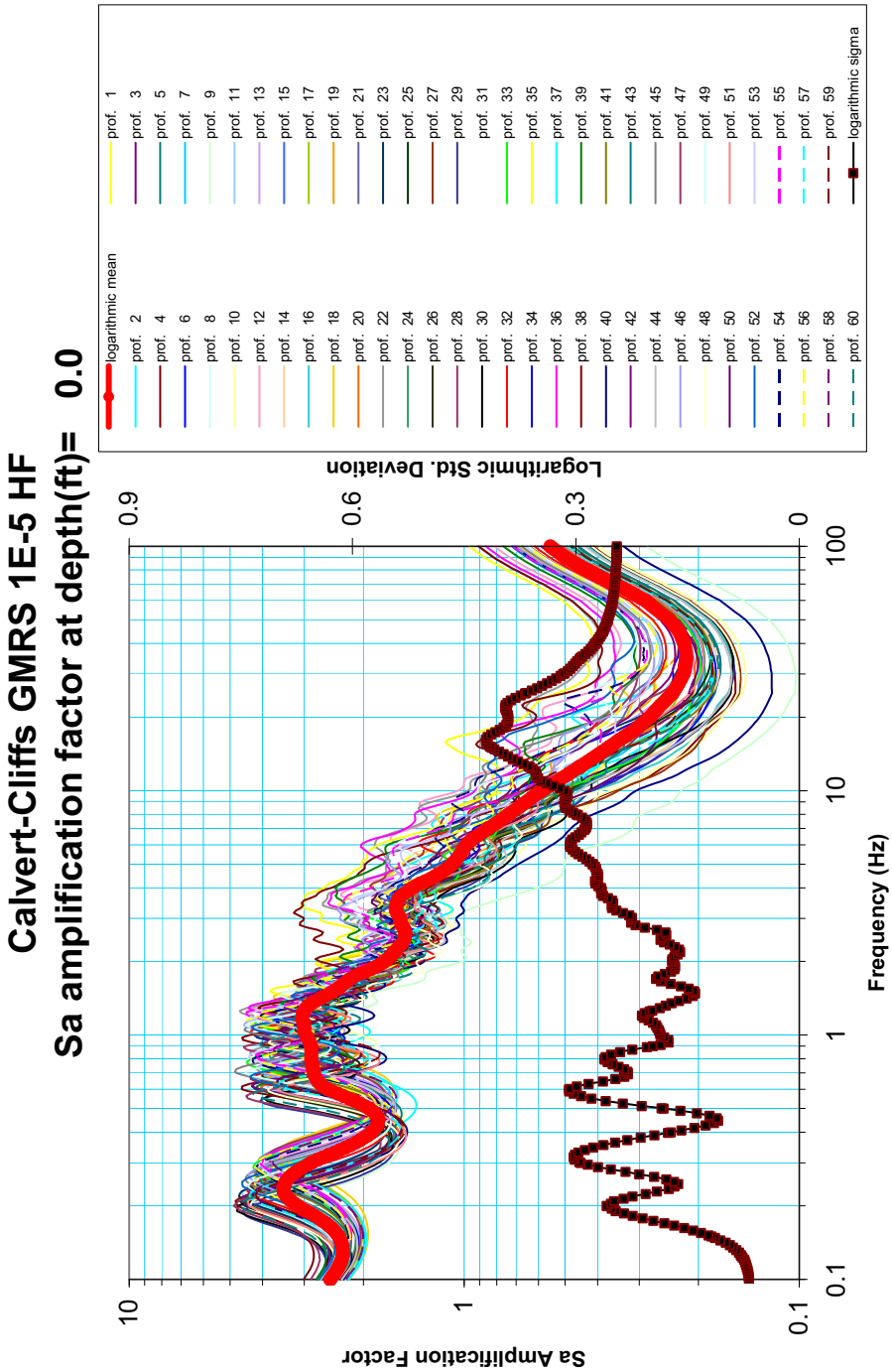

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Figure 2.5-83— {Maximum Strains vs. Depth for 10^{-5} HF Input Motion}

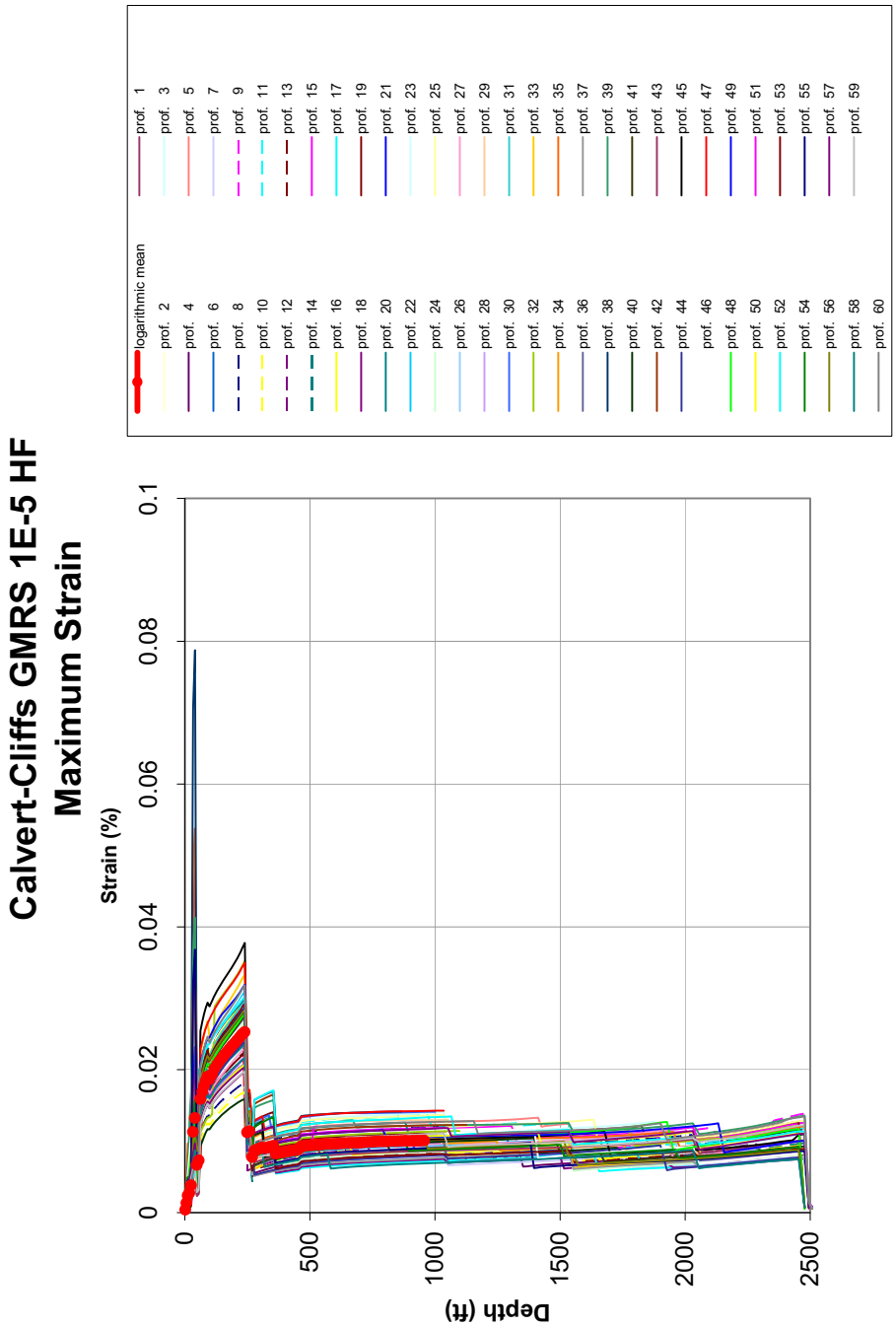

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Figure 2.5-84— {Logarithmic Mean Site Amplification Factor and Standard Deviation at the Top of a Soil Column with no Backfill for 10^{-5} LF Input Motion}

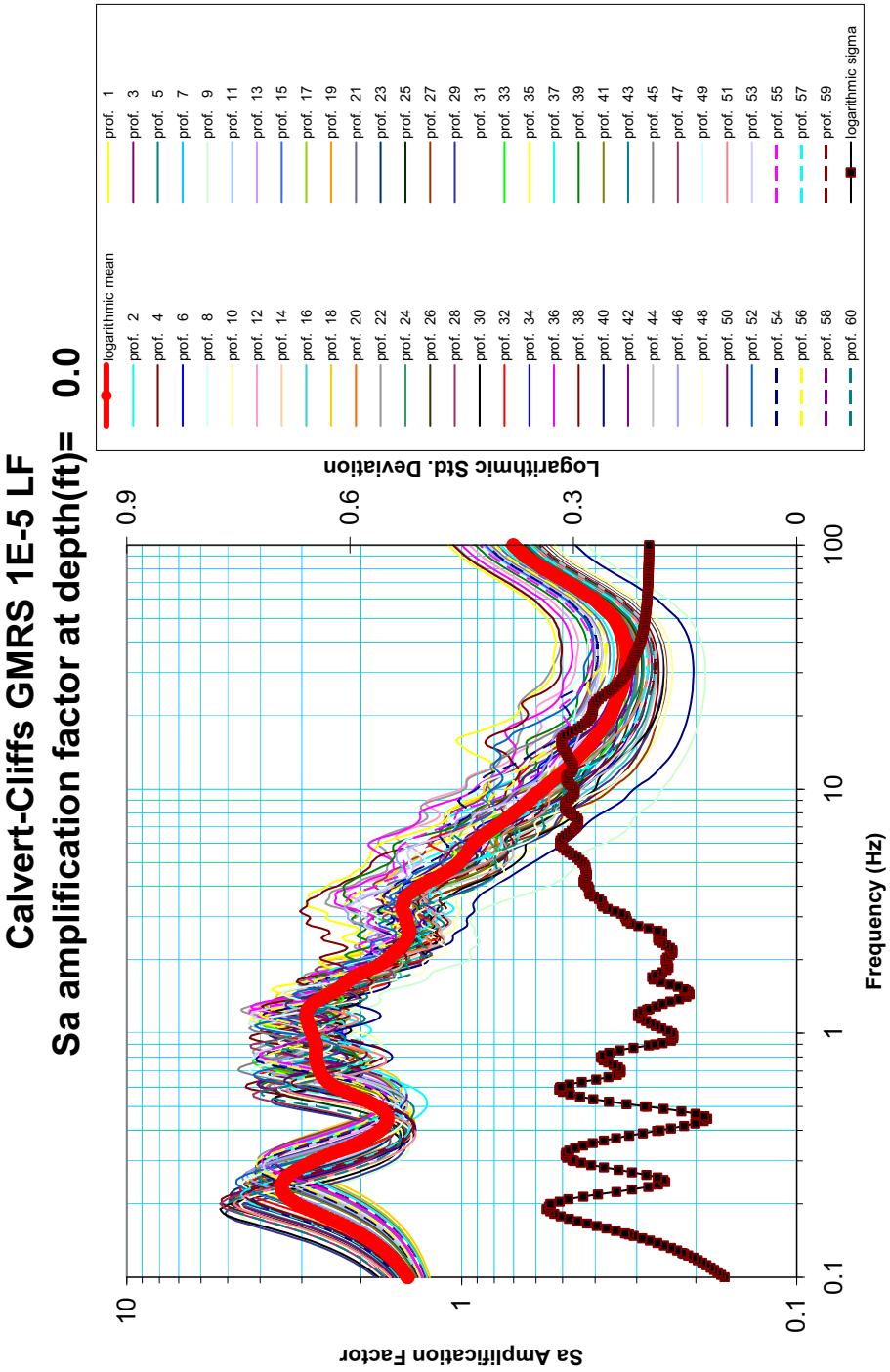

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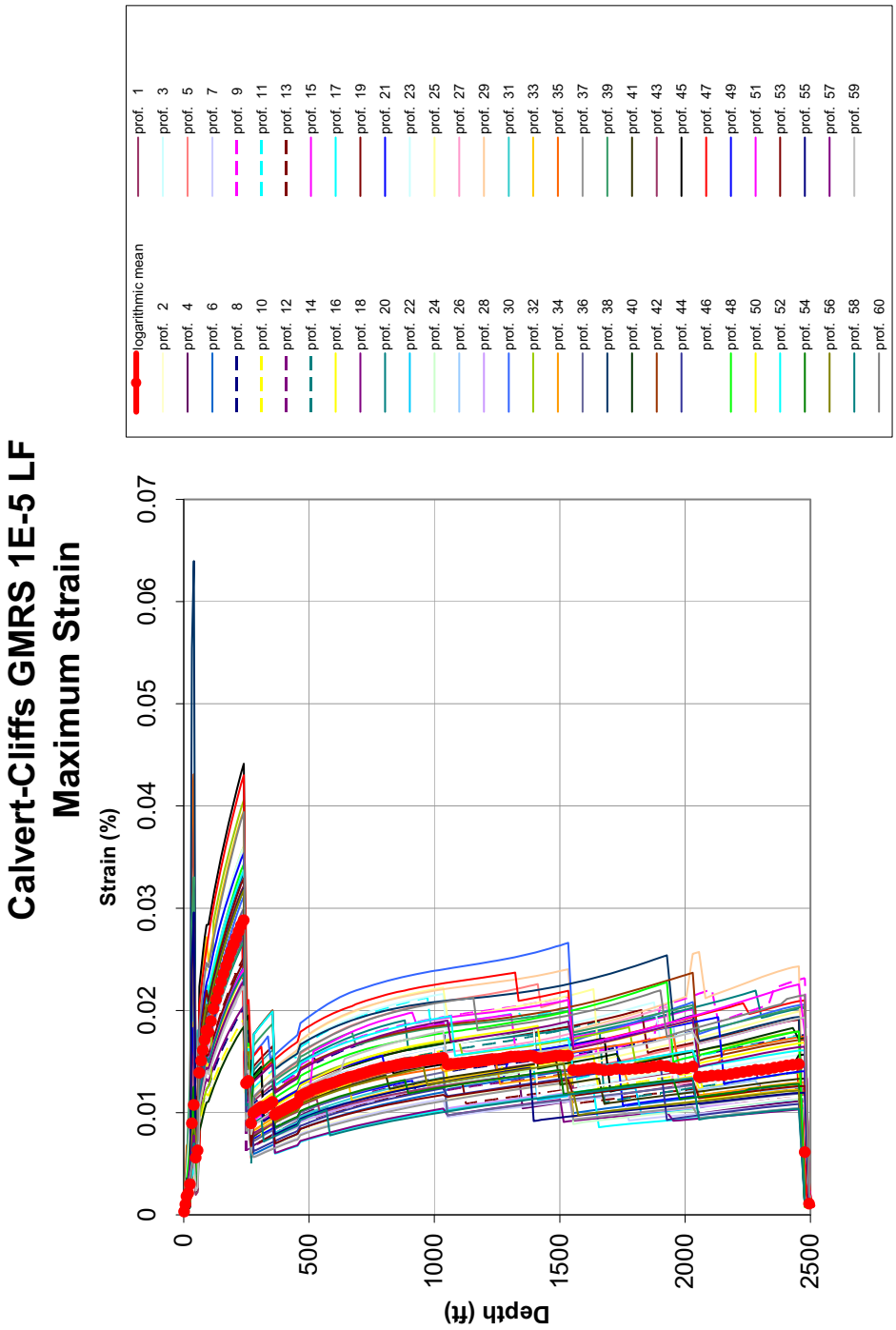
Figure 2.5-85— {Maximum Strains vs Depth for 10^{-5} LF Input Motion}



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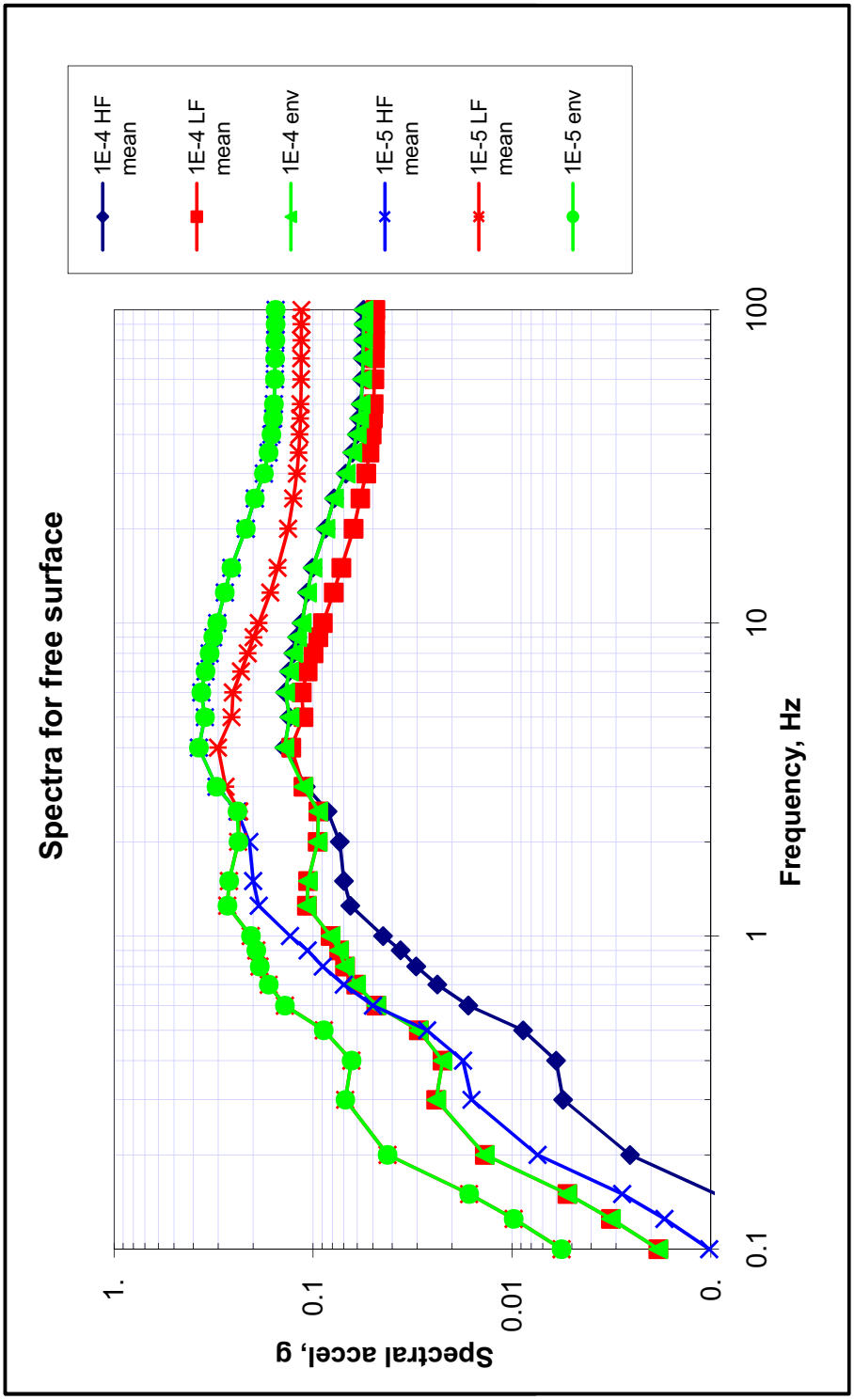

Figure 2.5-86— {HF and LF Spectra and Envelopes for 10^{-4} and 10^{-5}}

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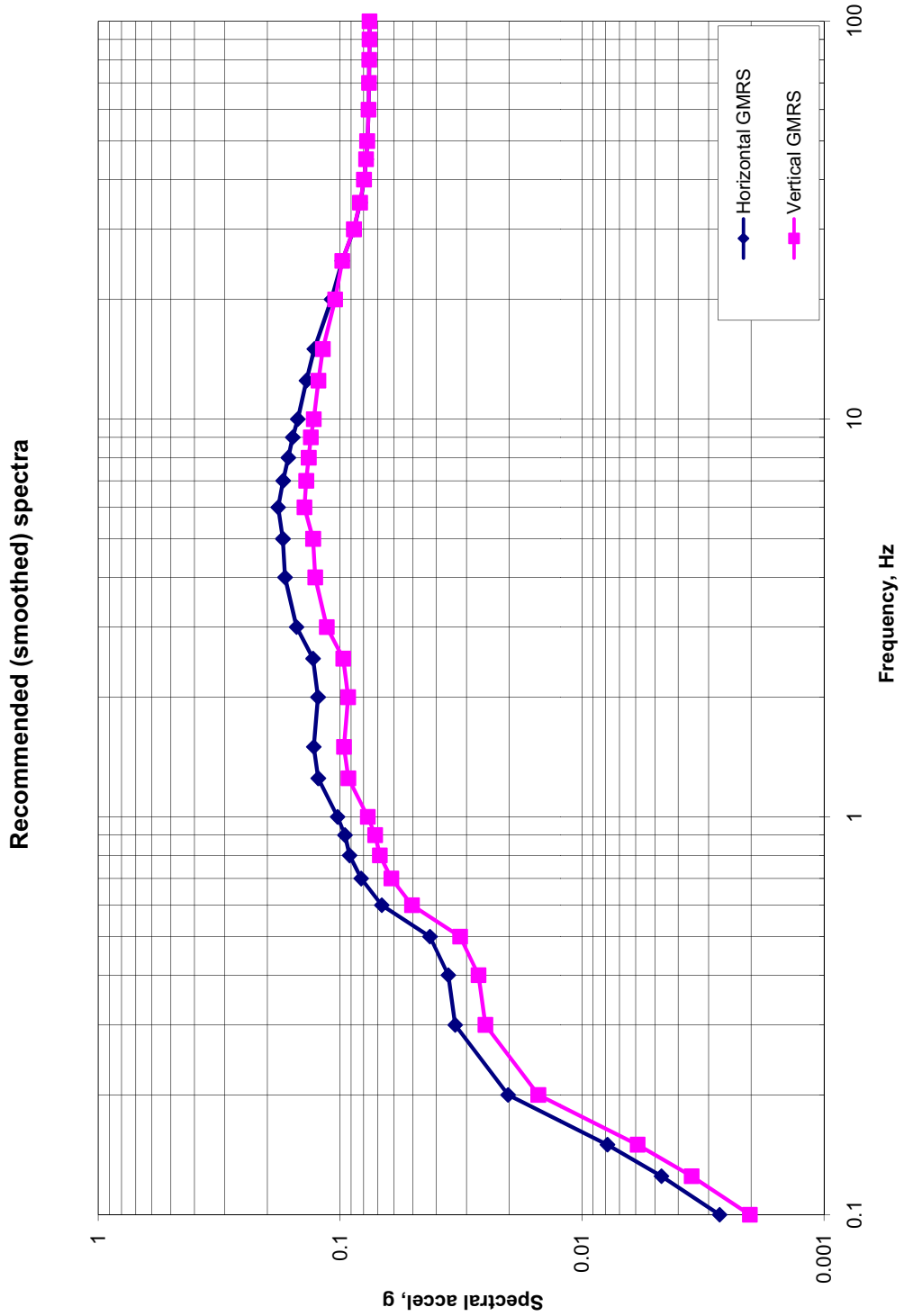
Figure 2.5-87— {Recommended Horizontal and Vertical GMRS}



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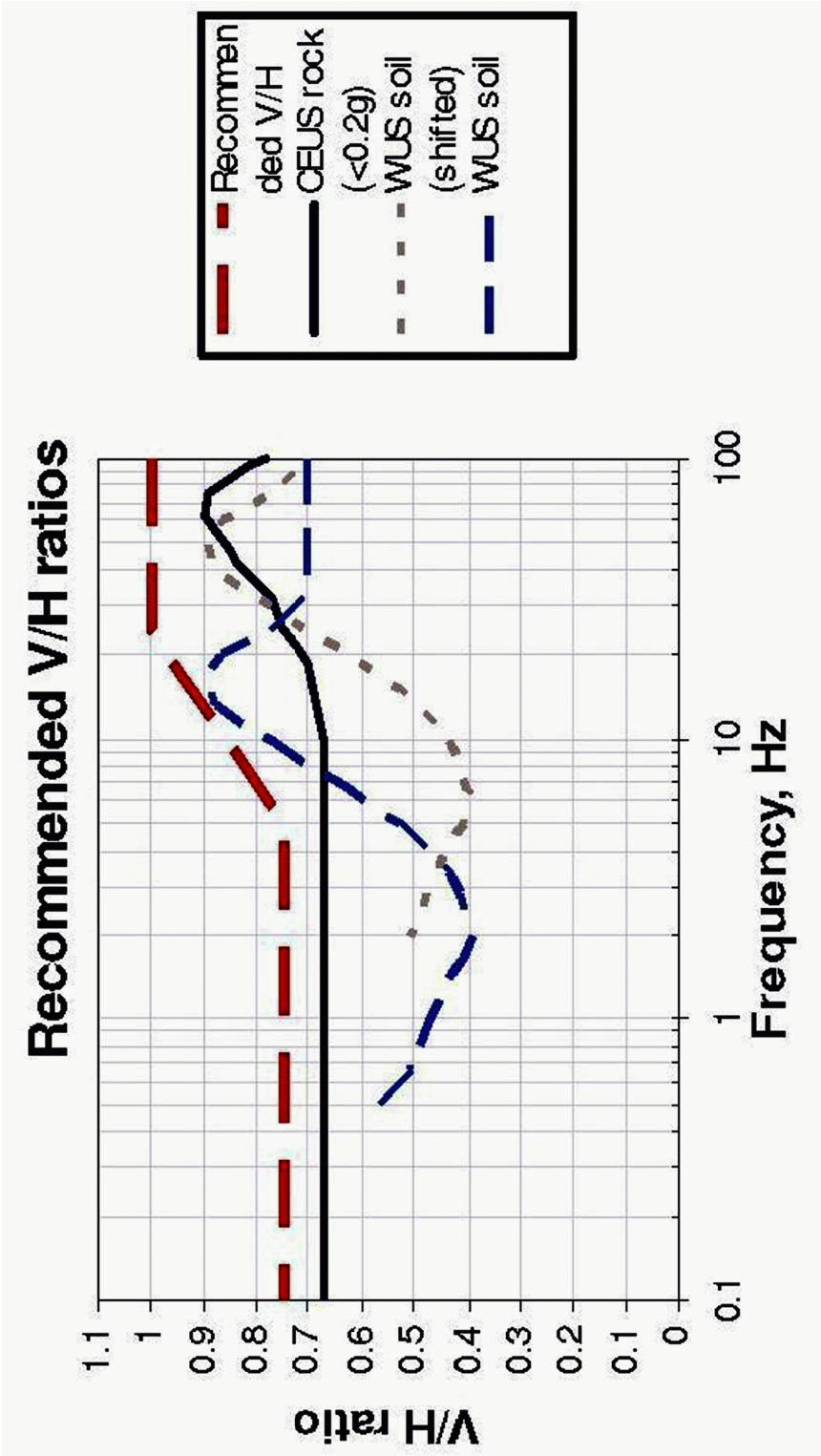

Figure 2.5-88— {V/H Ratios from Several Publications and Recommended V/H Ratios}

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Figure 2.5-89— {Mean Seismic Hazard by Source for Rondout Team, 10 Hz Spectral Acceleration}

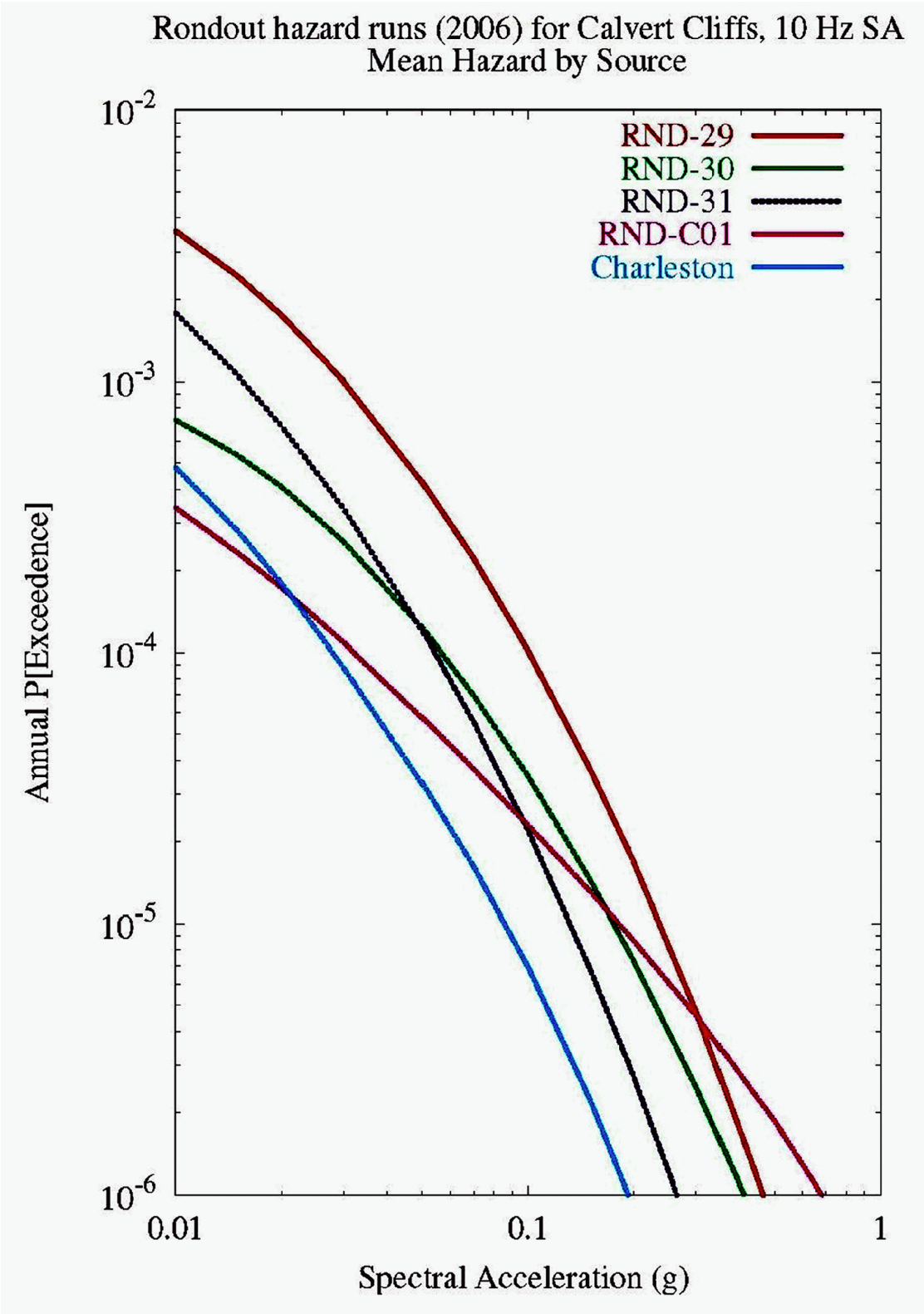

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Figure 2.5-90— {Mean 10^{-6} Deaggregation Plot for 5 and 10 Hz}

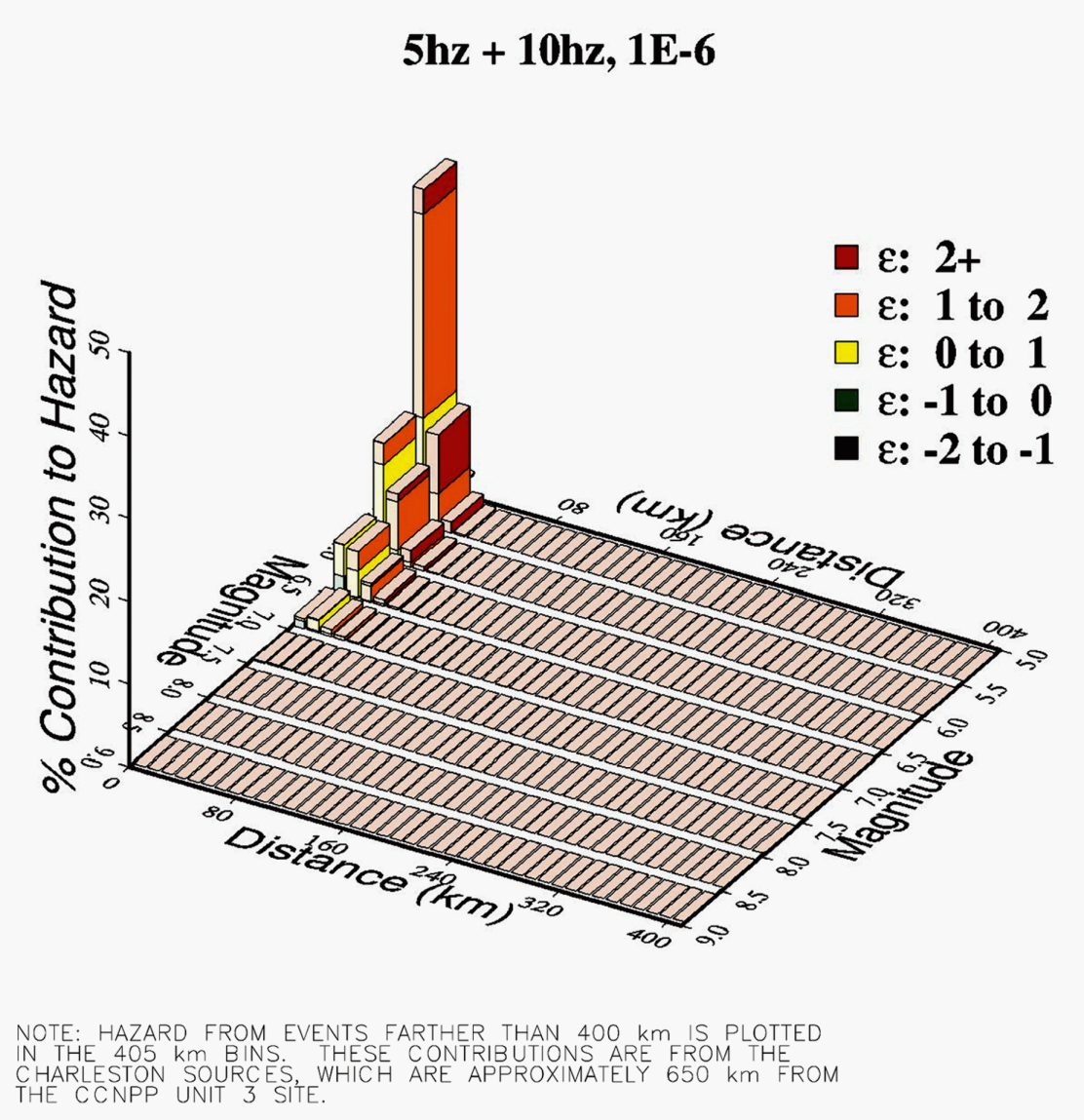

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Figure 2.5-91— {Mean Seismic Hazard by Source for Rondout Team, 10 Hz Spectral Acceleration}

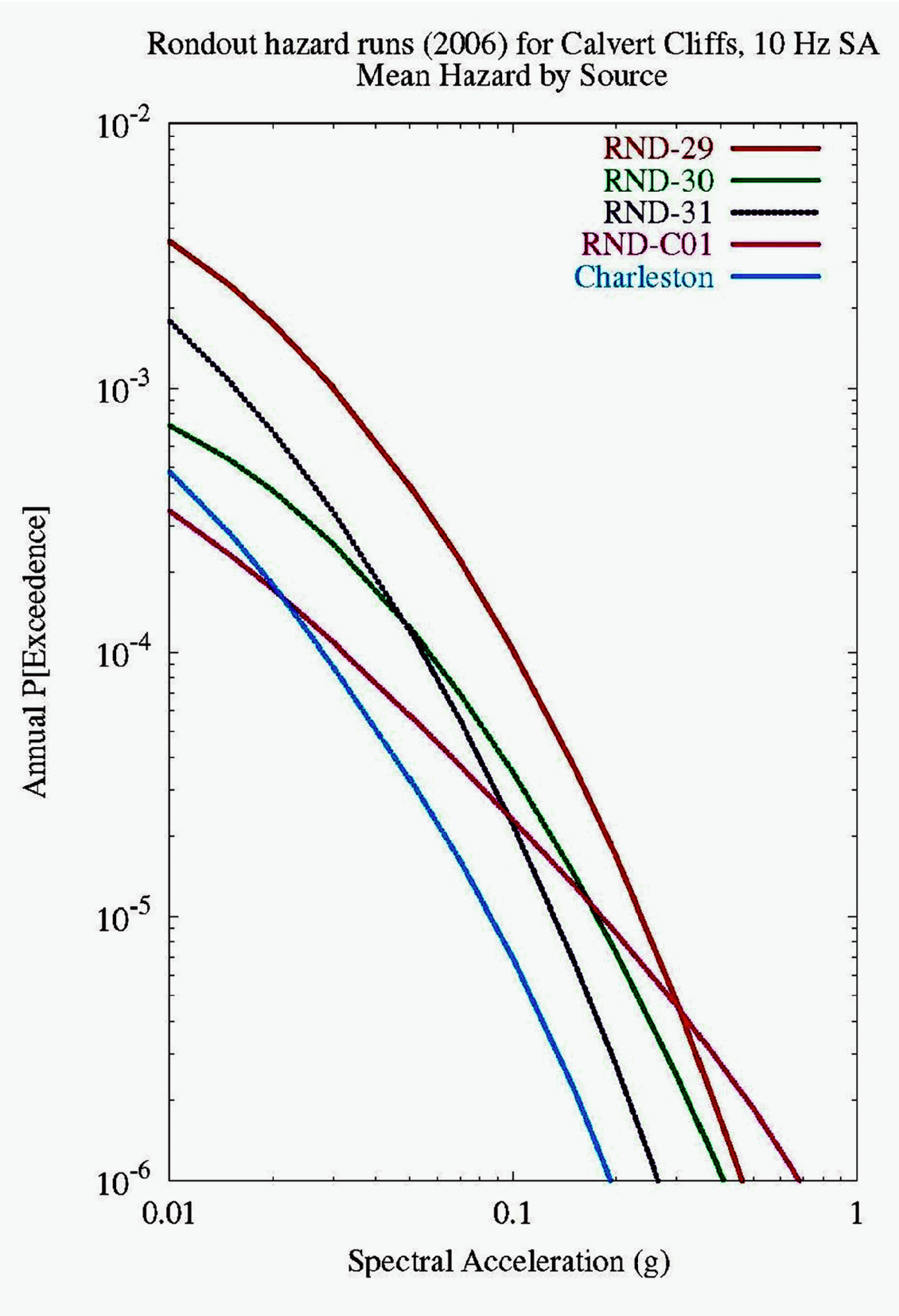

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Figure 2.5-92— {Mean Seismic Hazard by Source for Rondout Team, 1 Hz Spectral Acceleration}

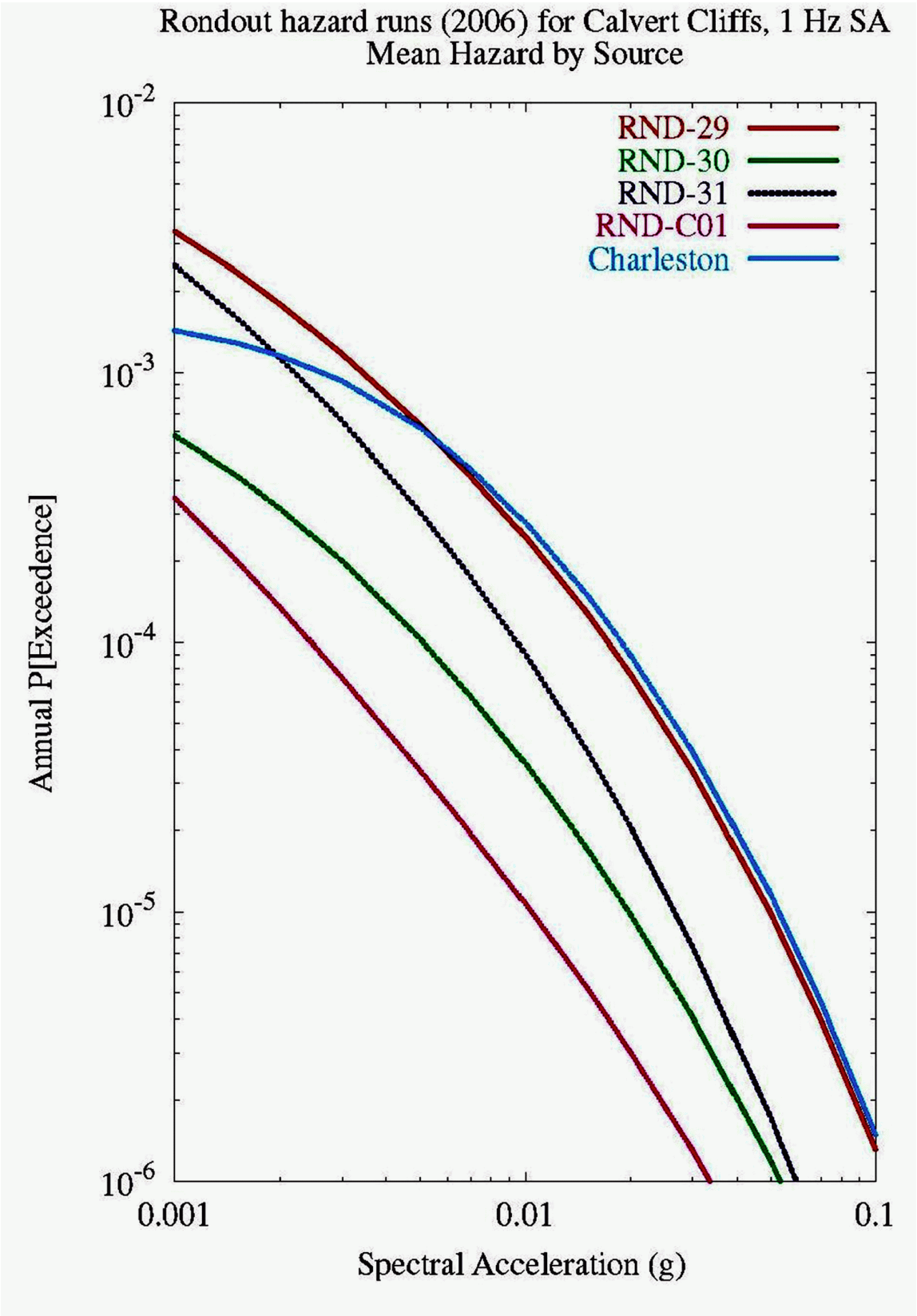

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Figure 2.5-93— {Median Seismic Hazard by Source for Rondout Team, 10 Hz Spectral Acceleration}

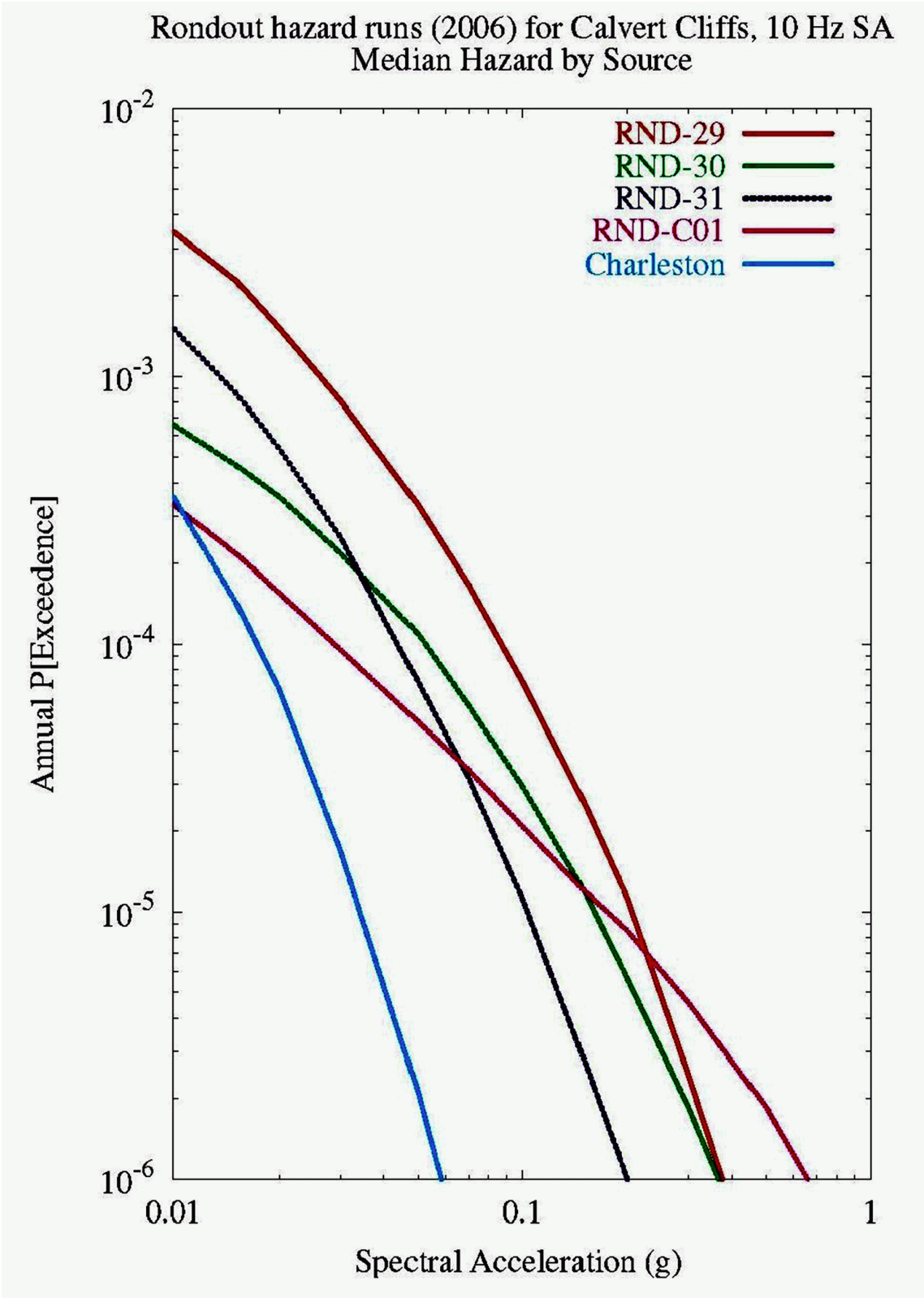

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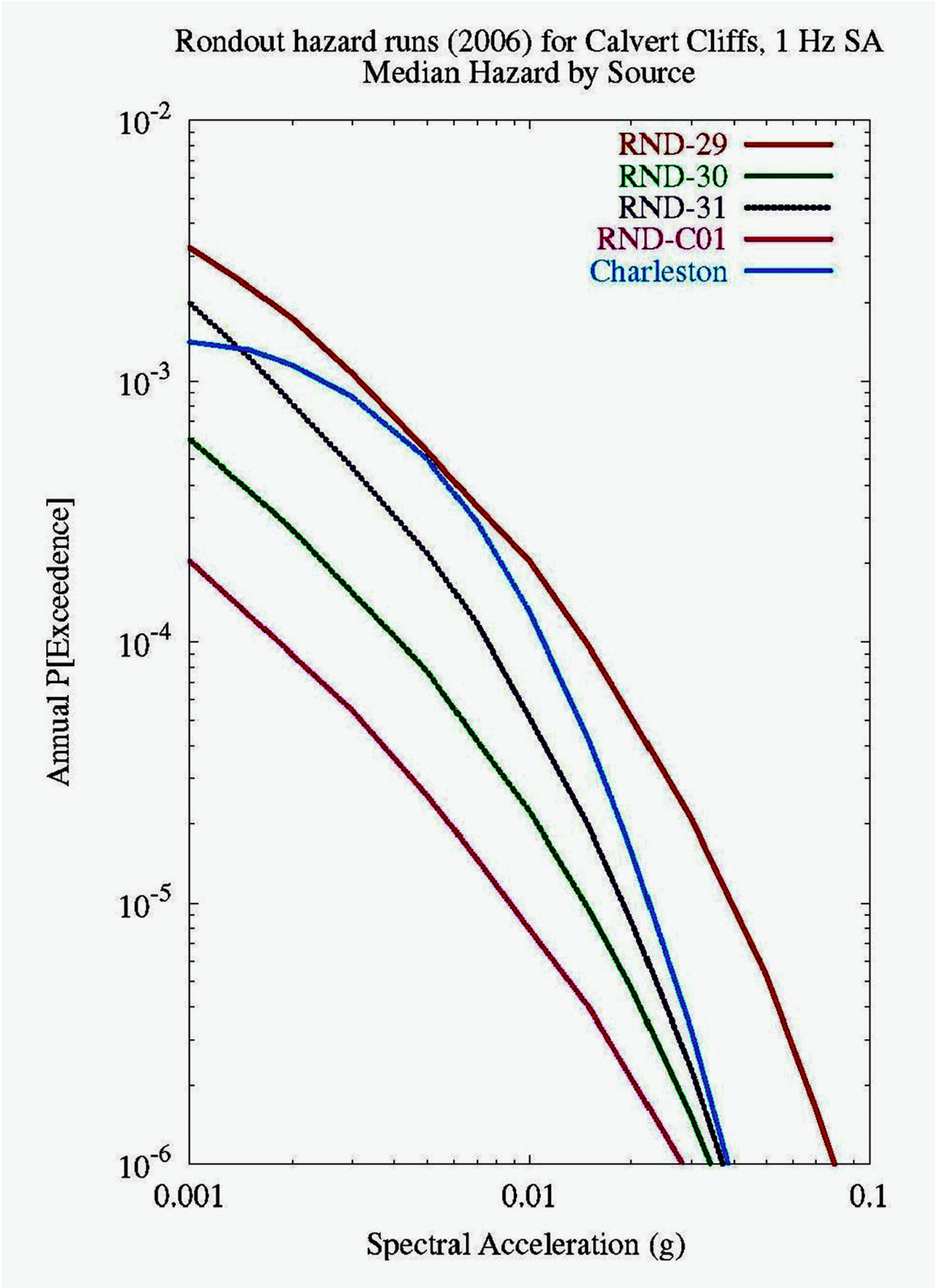
Figure 2.5-94— {Median Seismic Hazard by Source for Rondout Team, 1 Hz Spectral Acceleration}



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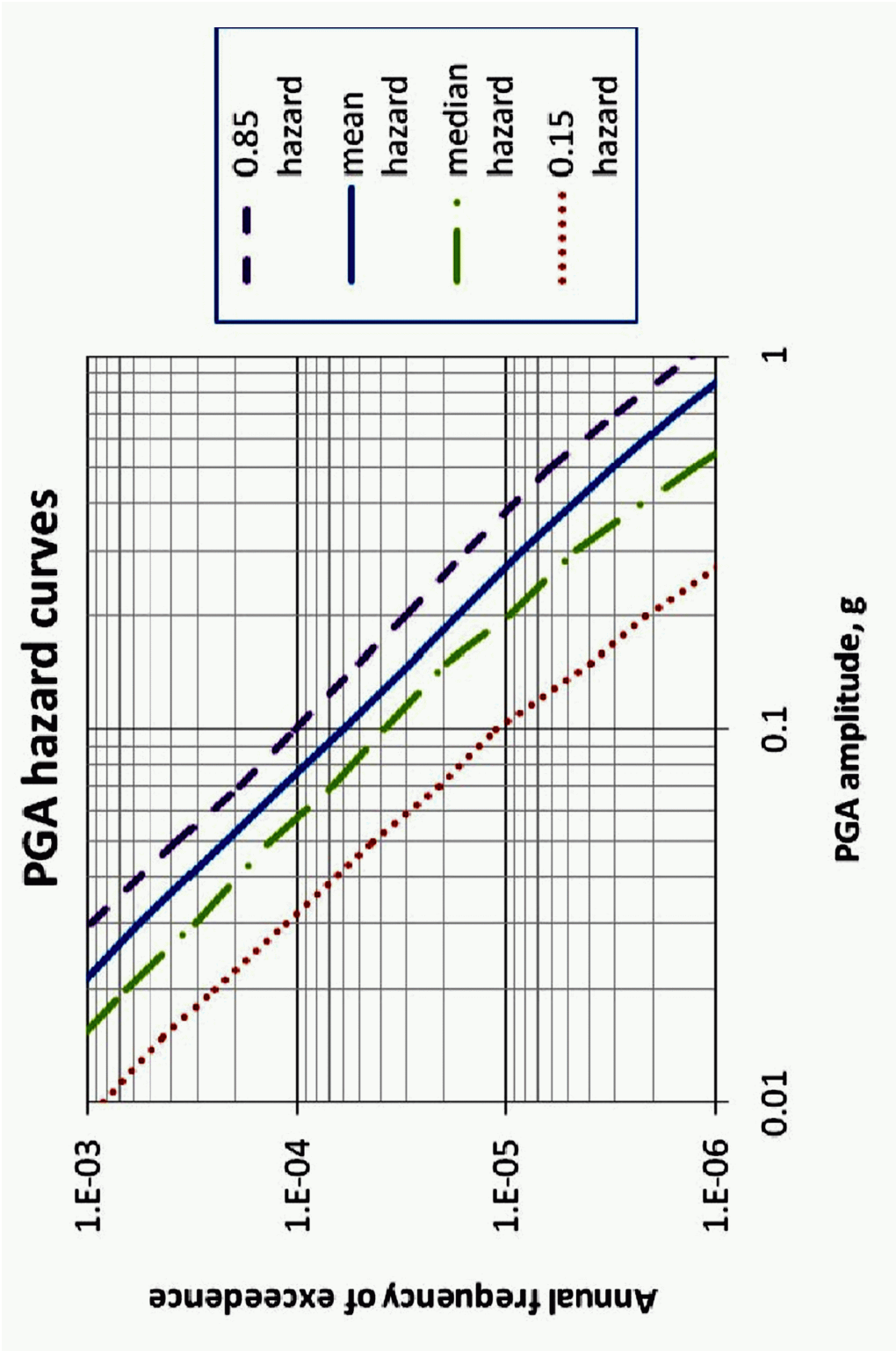

Figure 2.5-95— {Mean and Fractile Rock Hazard Curves for PGA}

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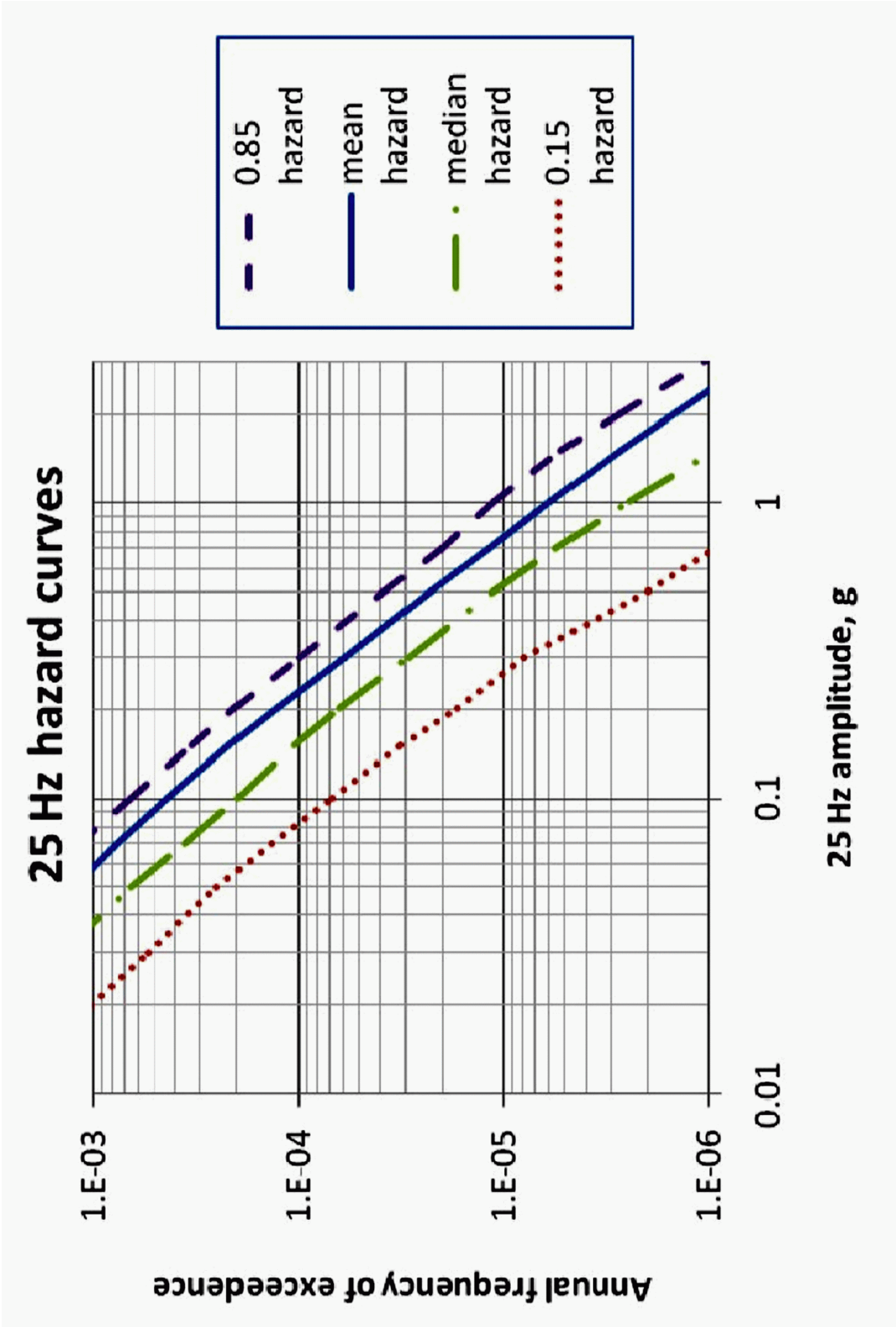

Figure 2.5-96— {Mean and Fractile Rock Hazard Curves for 25 Hz}

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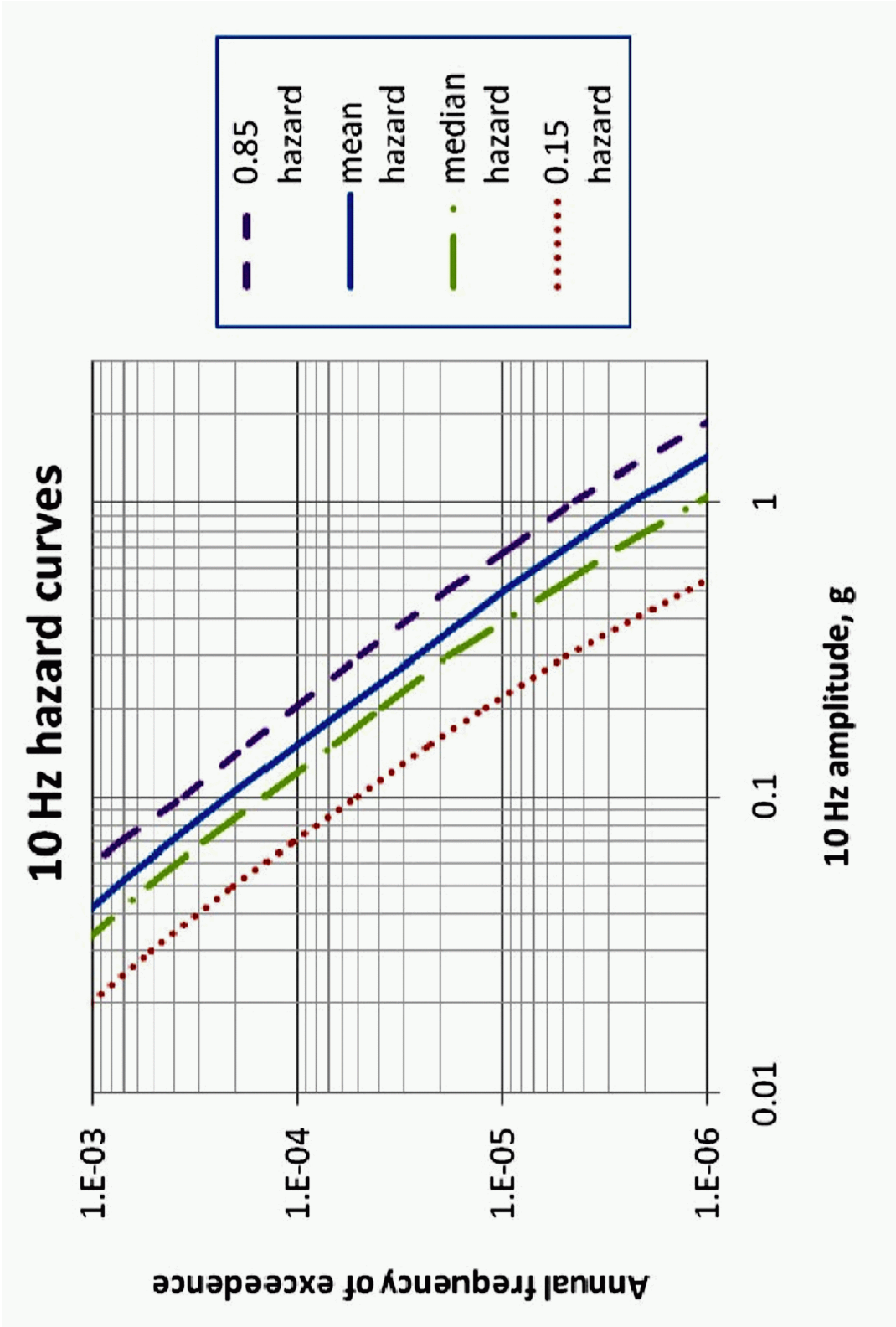

Figure 2.5-97— {Mean and Fractile Rock Hazard Curves for 10 Hz}

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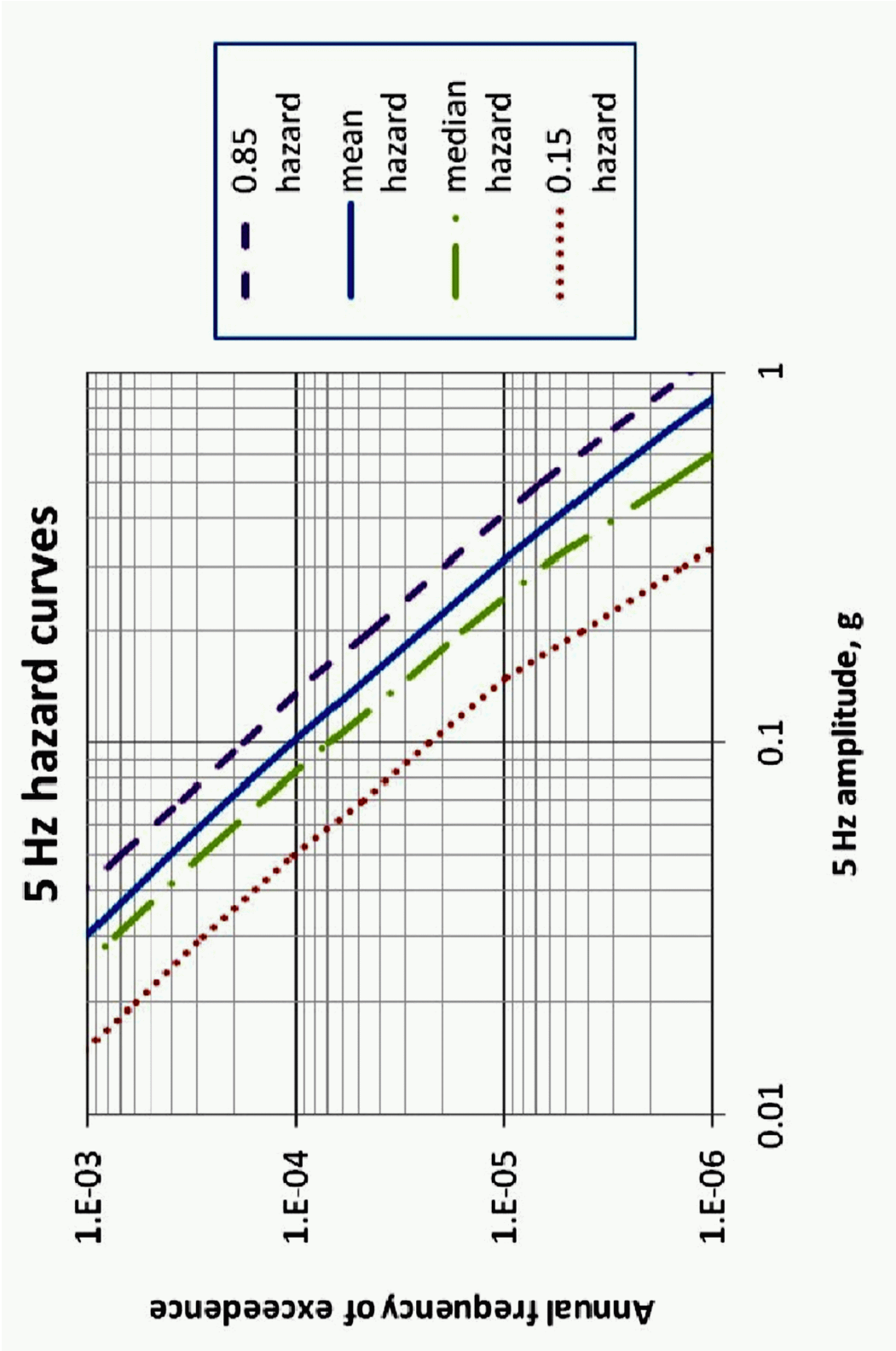

Figure 2.5-98— {Mean and Fractile Rock Hazard Curves for 5 Hz}

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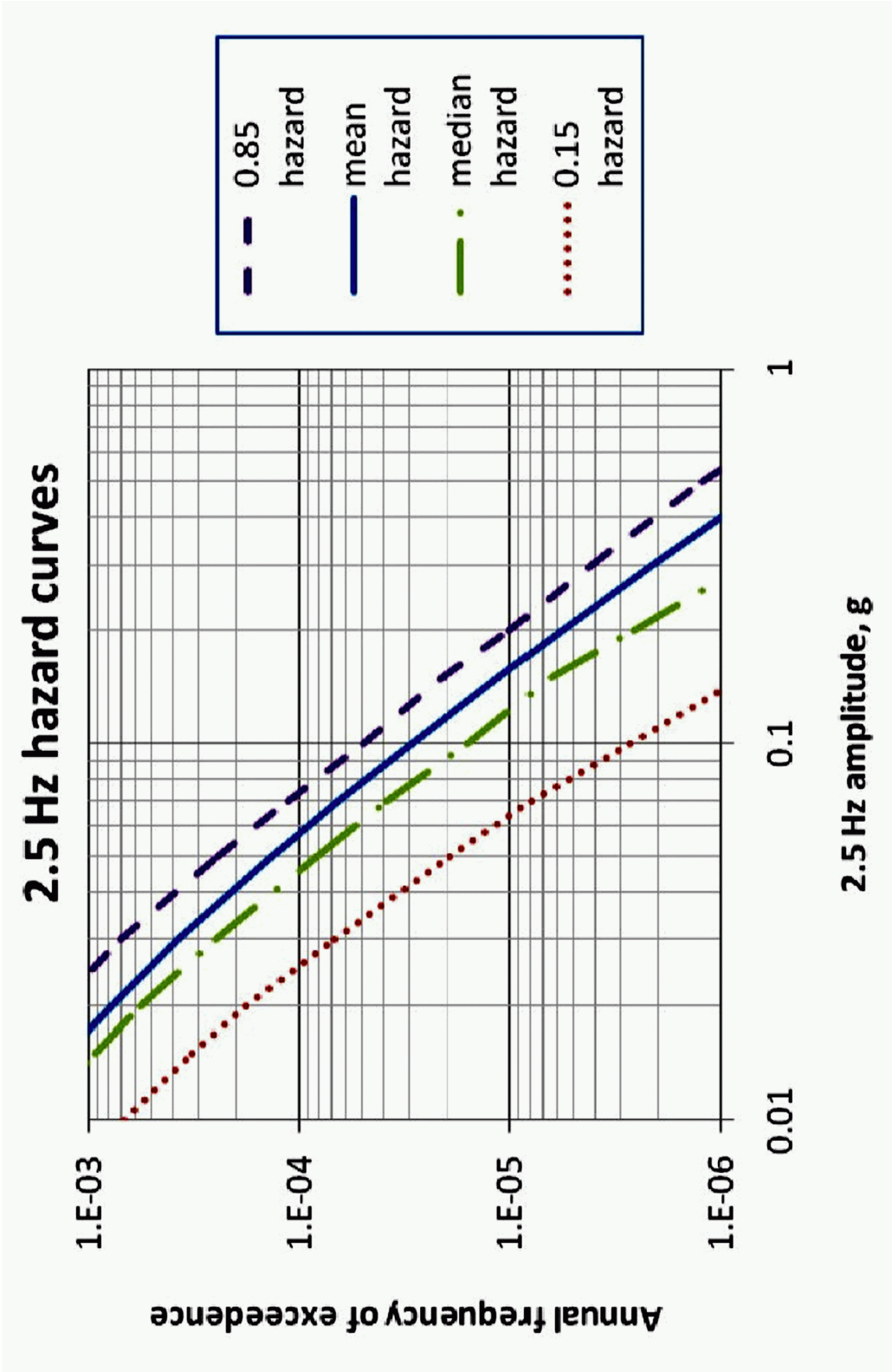

Figure 2.5-99— {Mean and Fractile Rock Hazard Curves for 2.5 Hz}

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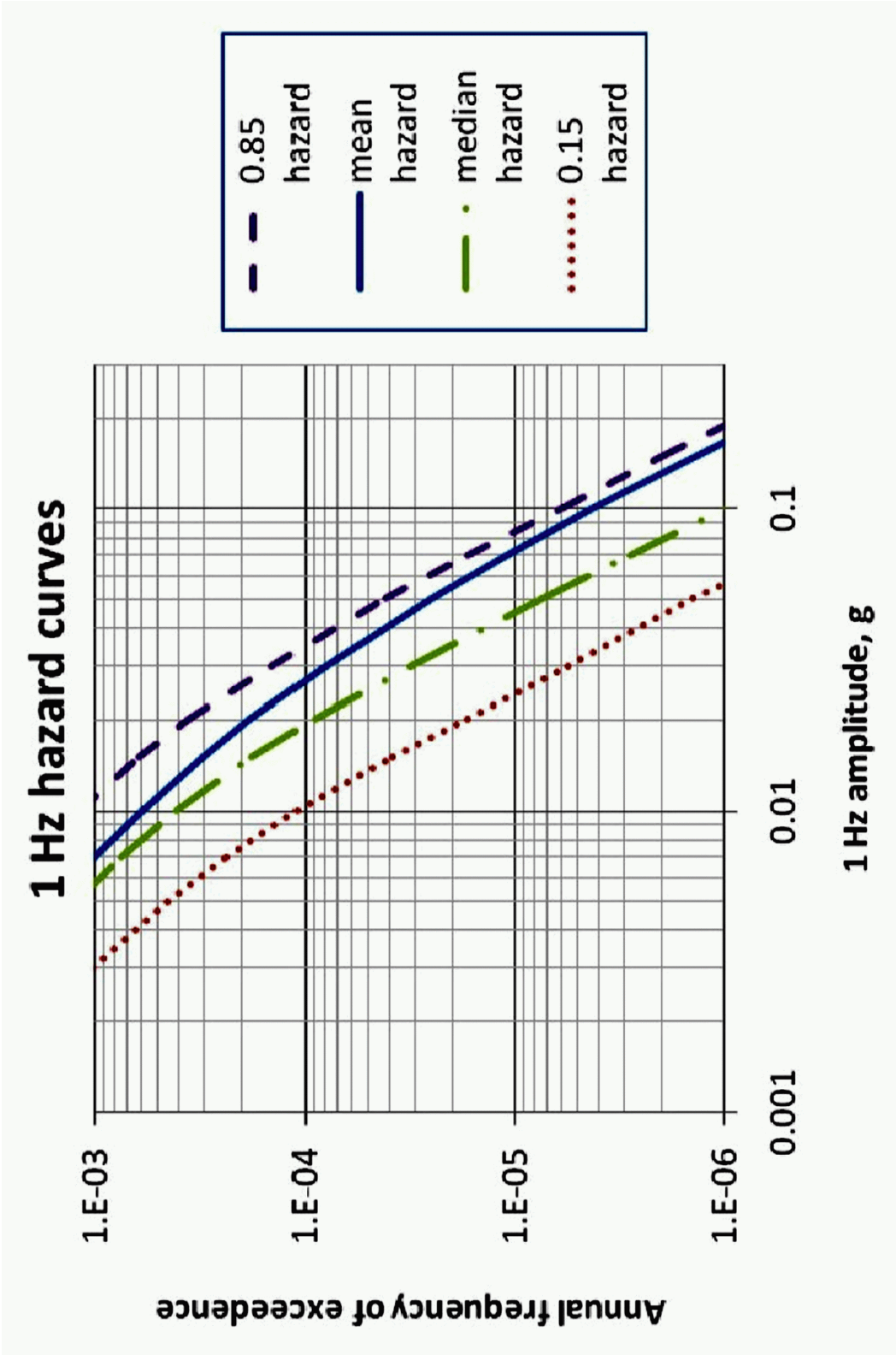

Figure 2.5-100— {Mean and Fractile Rock Hazard Curves for 1 HZ}

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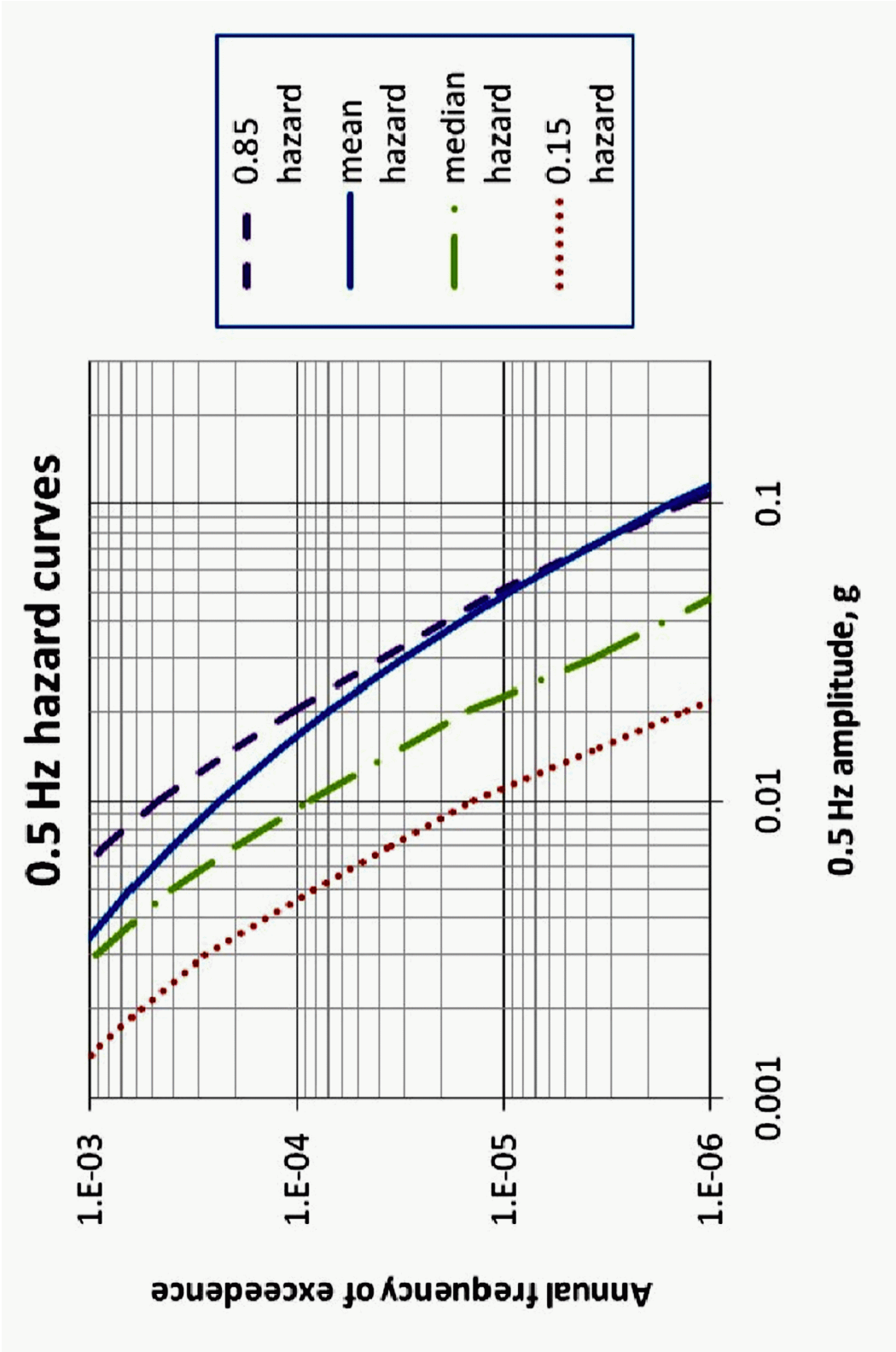

Figure 2.5-101 — {Mean and Fractile Rock Hazard Curves for 0.5 Hz}

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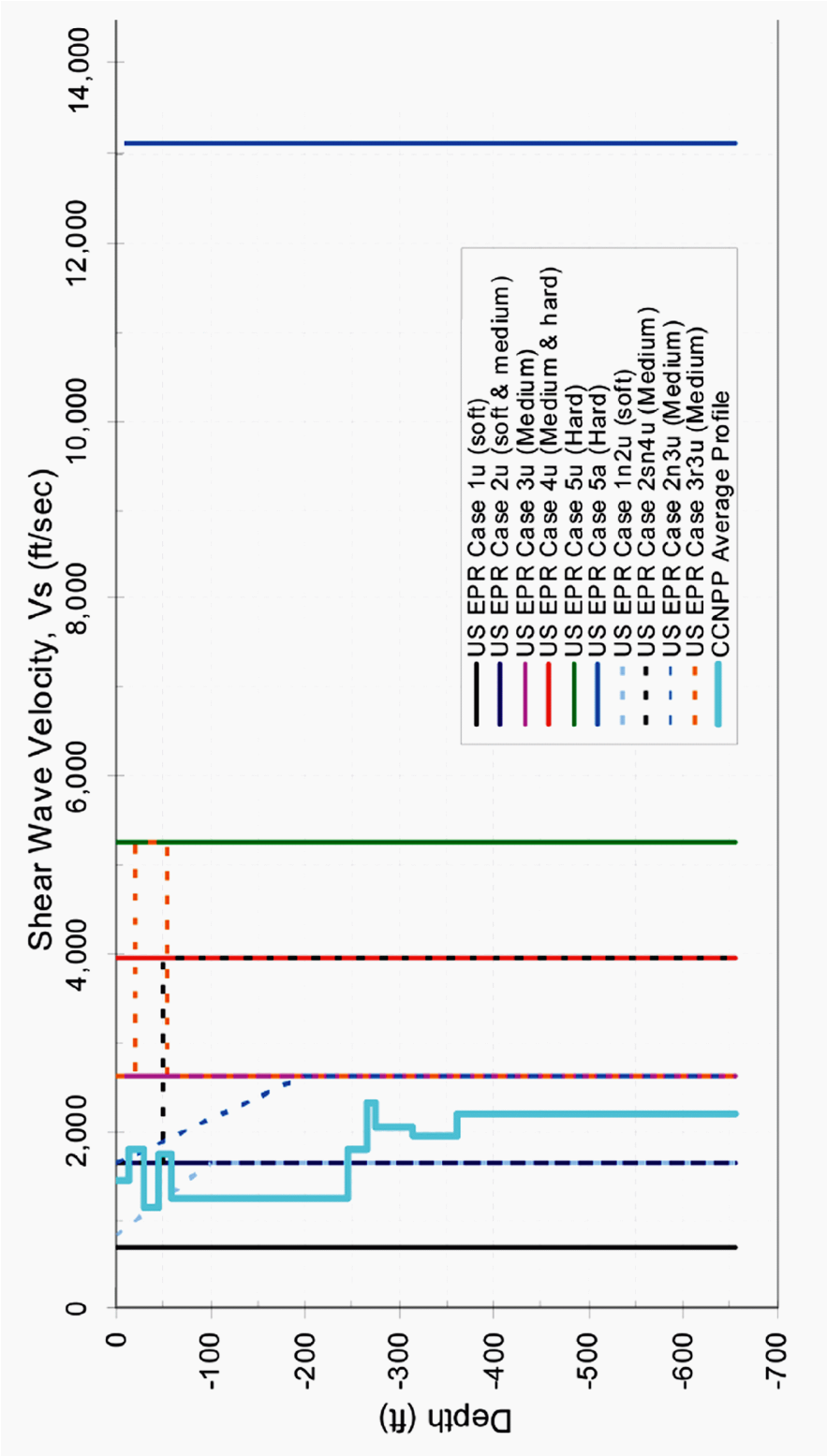

Figure 2.5-102— {CCNPP Unit 3 10 Generic Soil Profiles}

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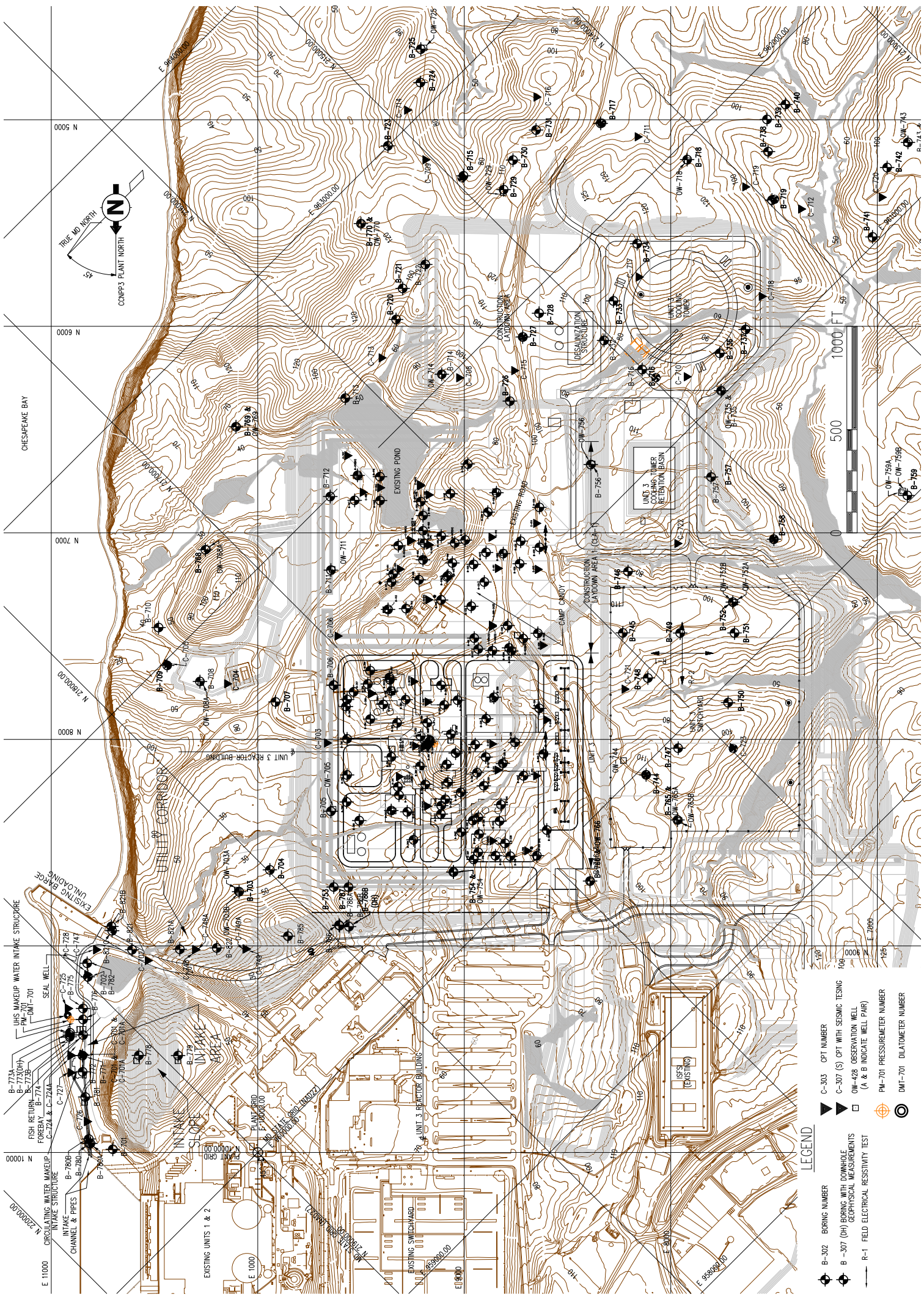
Figure 2.5-103— {Site Utilization Plan with Boring Locations}



See Figure 1.1-3 and Figure 1.2-1 for Site and Powerblock layout

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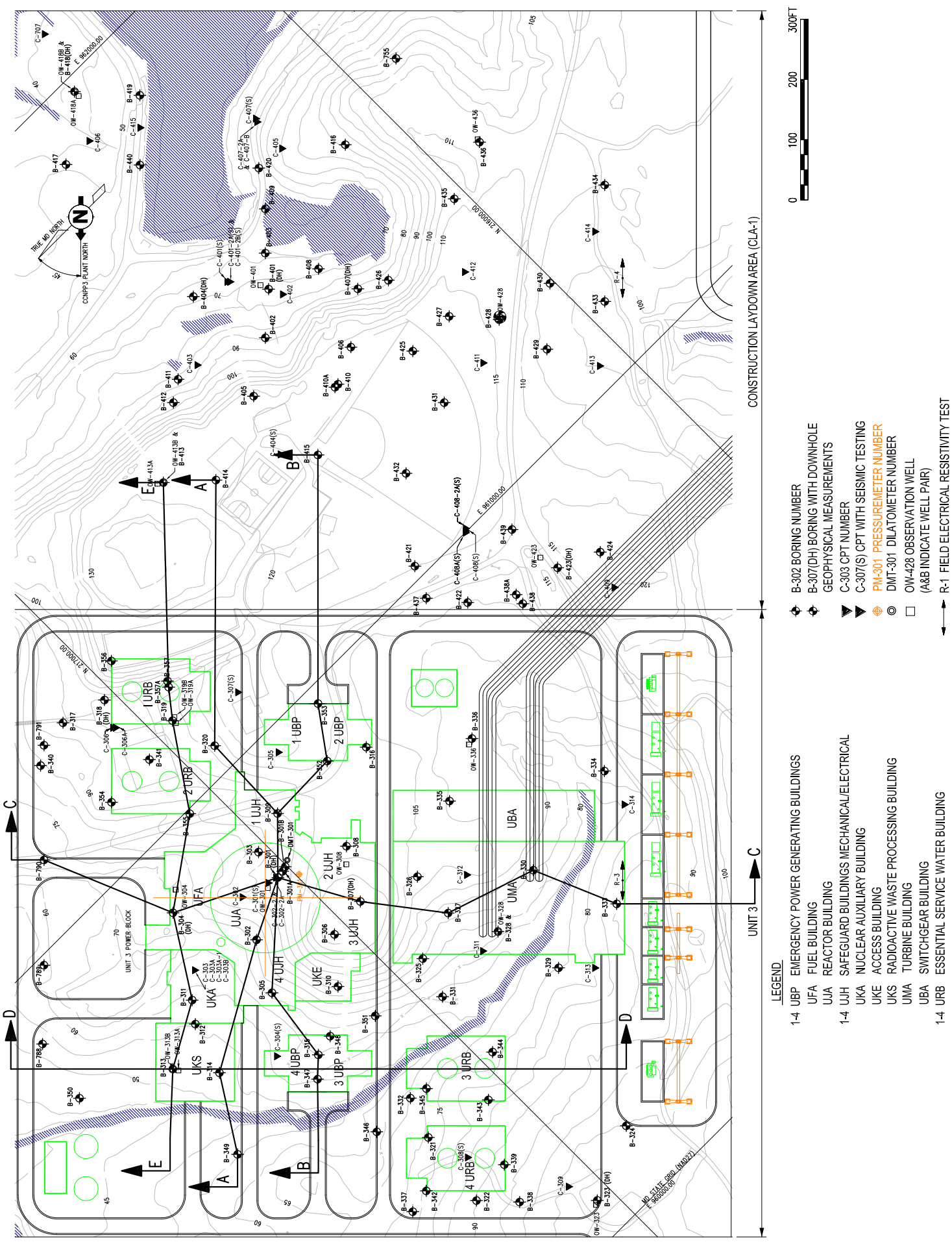
Figure 2.5-104— {Powerblock Area Profile Locations}



See Figure 1.1-3 and Figure 1.2-1 for Site and Powerblock layout

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Figure 2.5-105— {Intake Area Profile Location}

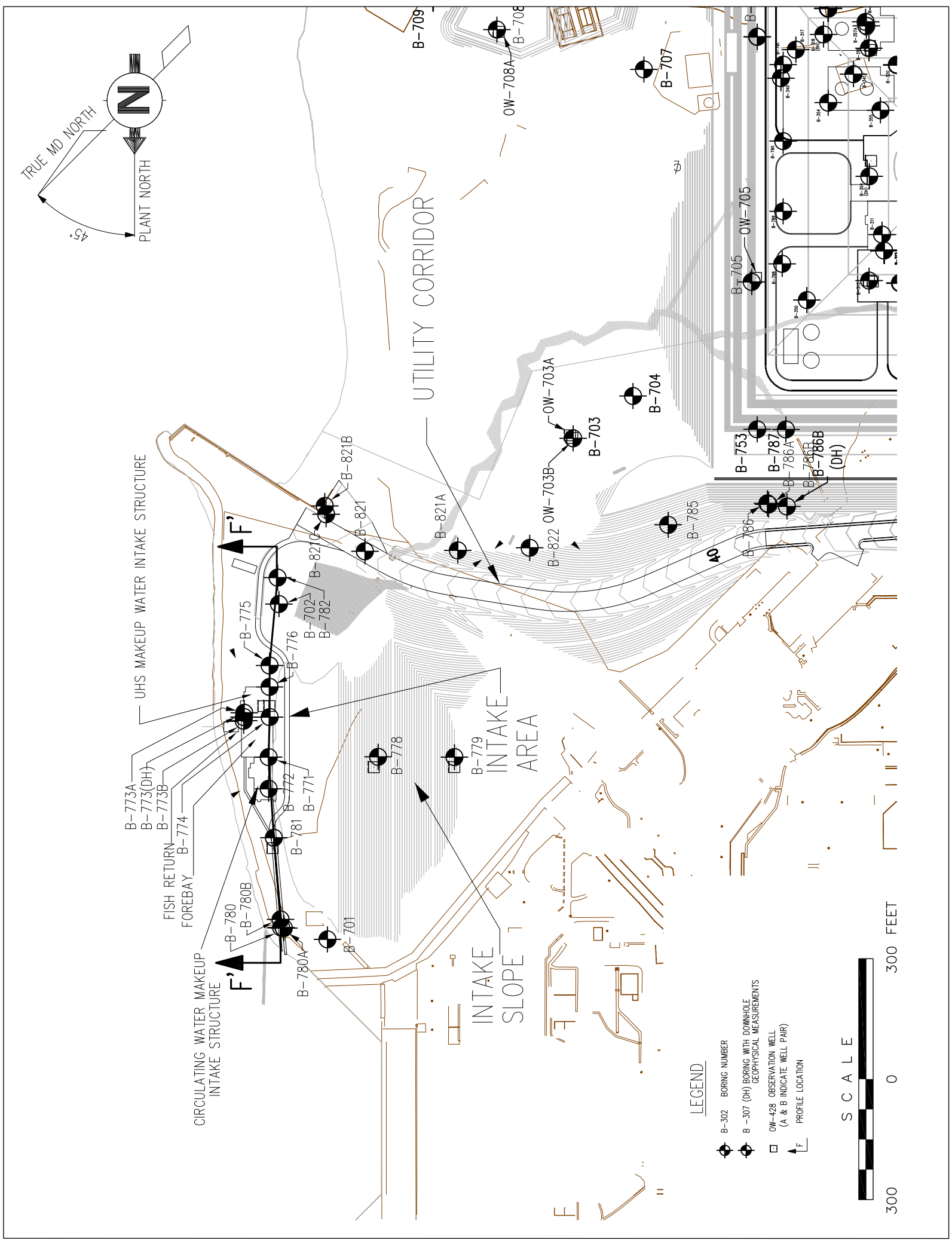

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Figure 2.5-106— {Generalized CCNPP Soil Column}

UNIT	THICKNESS [ft]		
	MIN	MAX	AVG
STRATUM I - TERRACE SAND	1	68	28
STRATUM IIa - CHESAPEAKE CLAY/SILT	4	36	19
STRATUM IIb - CHESAPEAKE CEMENTED SAND 1	3	69	24
STRATUM IIb - CHESAPEAKE CEMENTED SAND 2	3	55	23
STRATUM IIb - CHESAPEAKE CEMENTED SAND 3	4	39	16
STRATUM IIc - CHESAPEAKE CLAY/SILT (FROM B-301 AND B-401) INTERBEDDED SAND LAYERS	190	195	193
STRATUM III - NANJEMOY SAND (FROM B-301 and B-401)	>101	>115	>108

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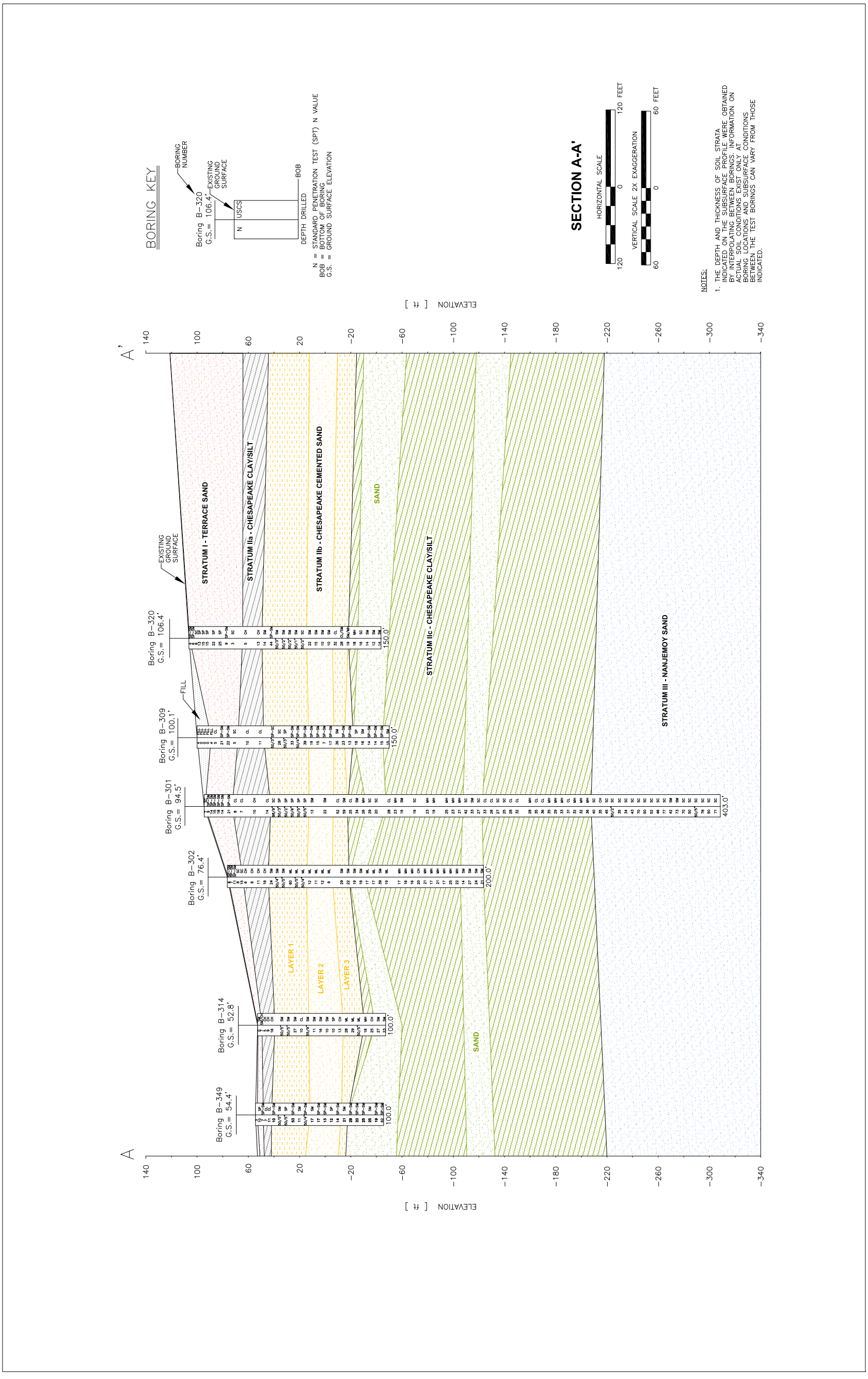
Figure 2.5-107— {Subsurface Profile A-A'}



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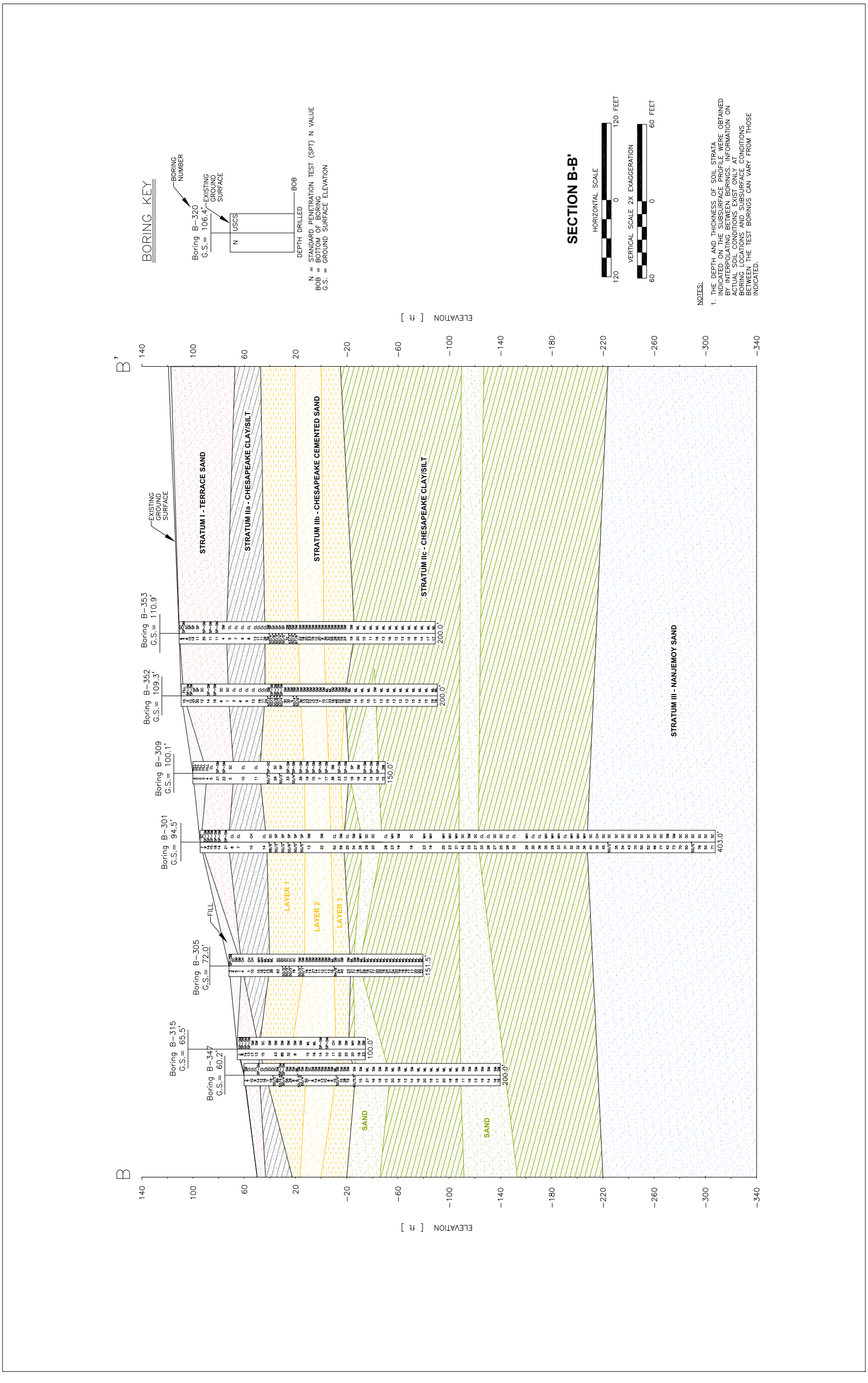

Figure 2.5-108— {Subsurface Profile B-B'}

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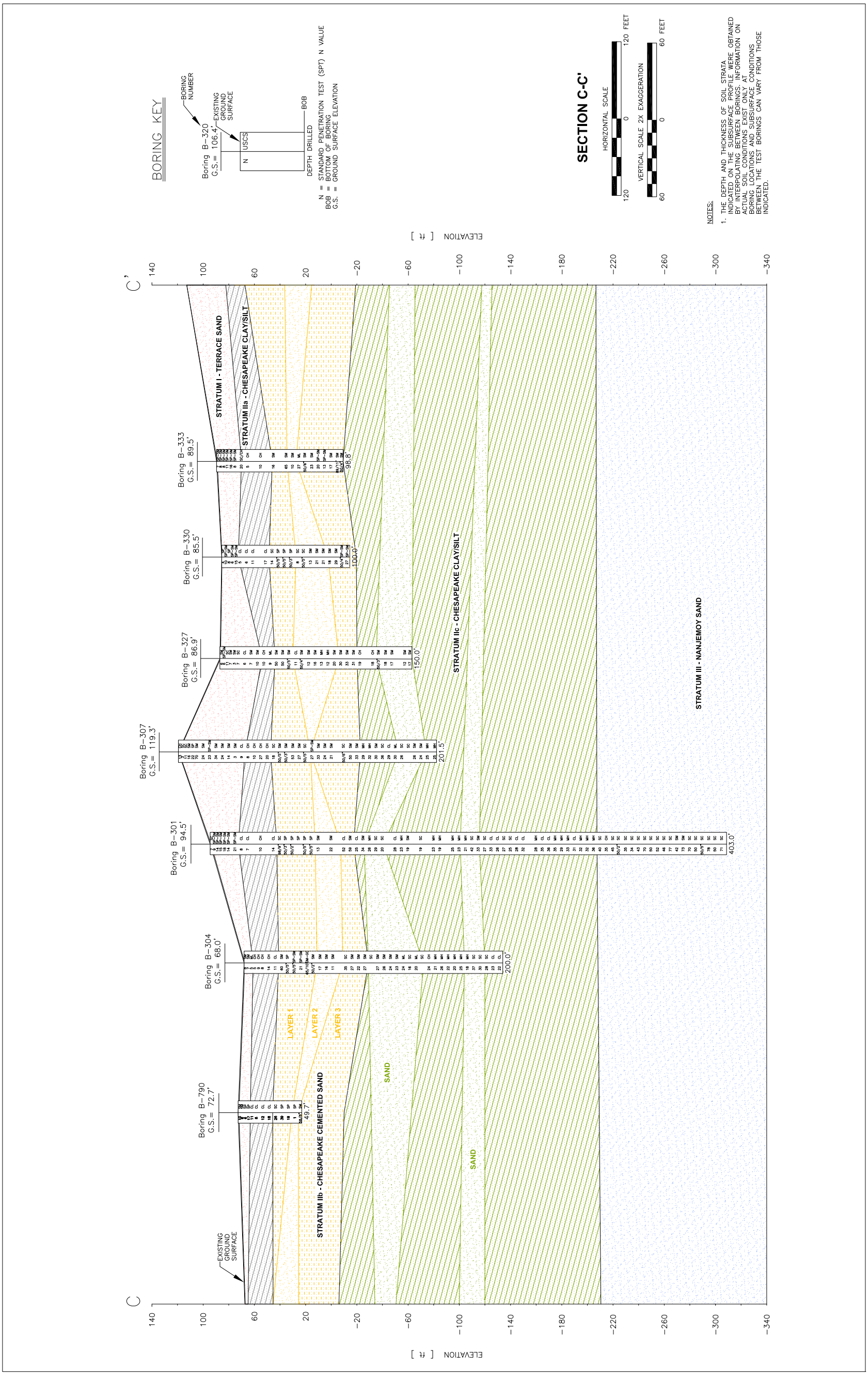

Figure 2.5-109— {Subsurface Profile C-C'}

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Figure 2.5-110— {Subsurface Profile D-D'}

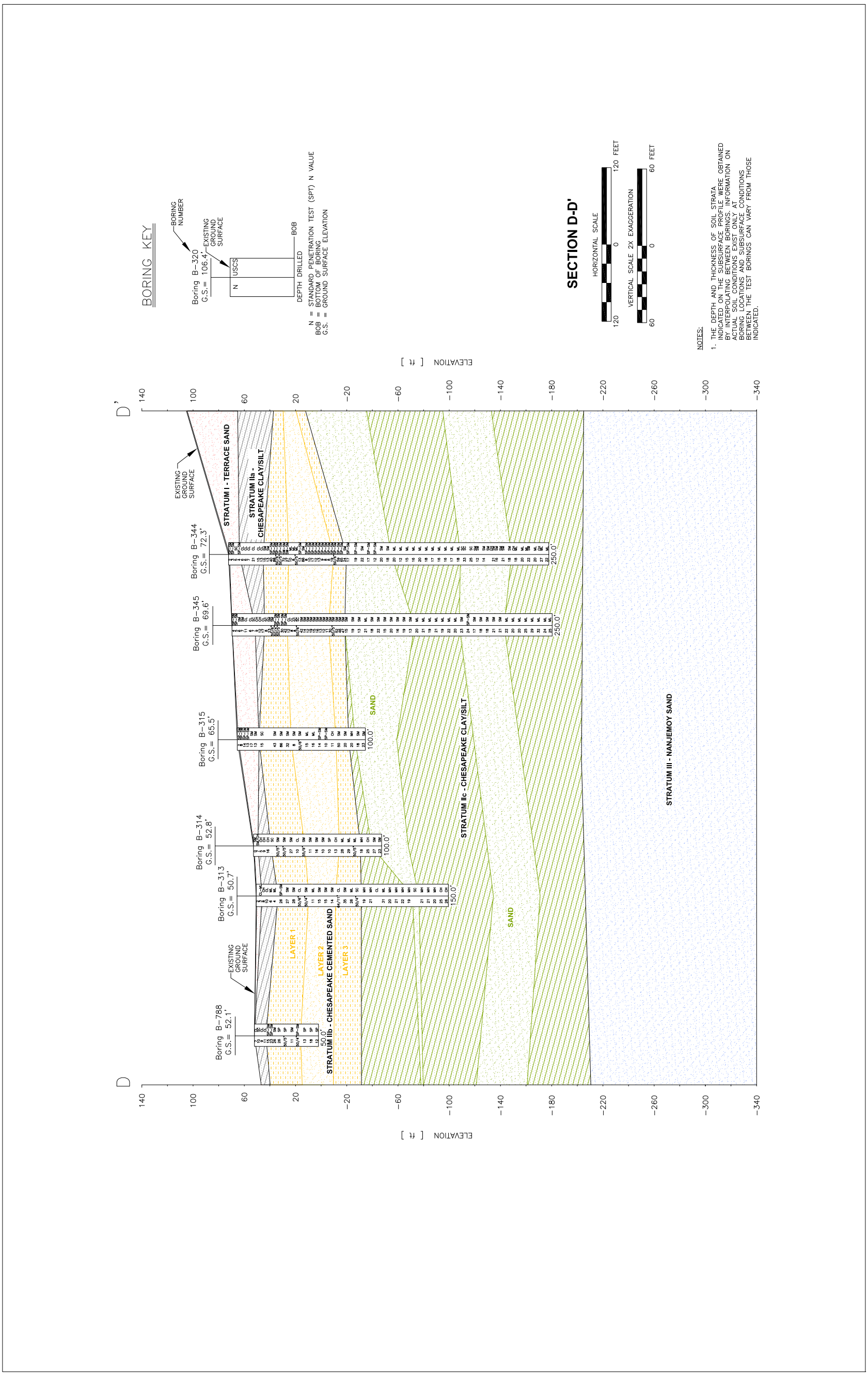

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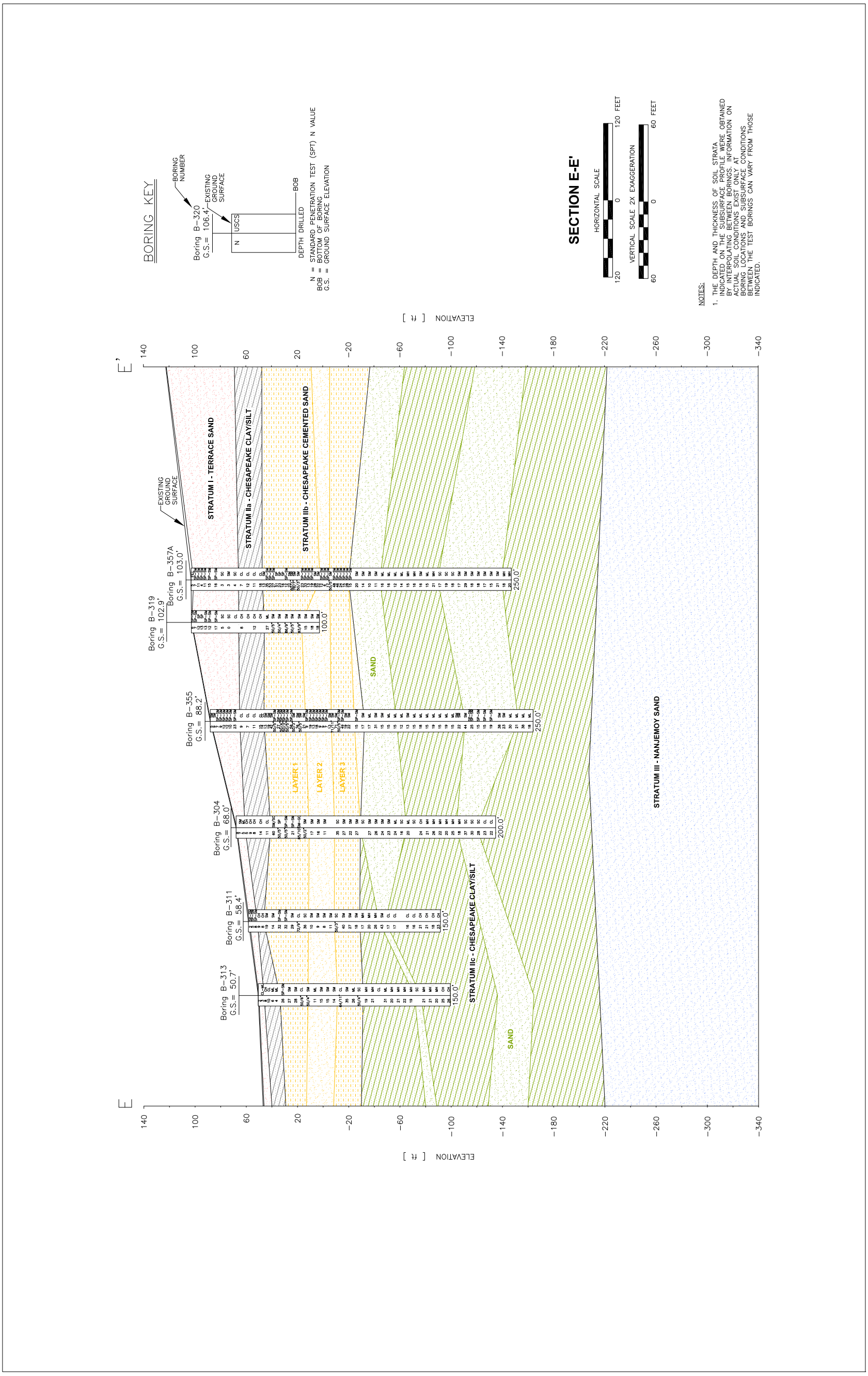
Figure 2.5-111— {Subsurface Profile E-E'}



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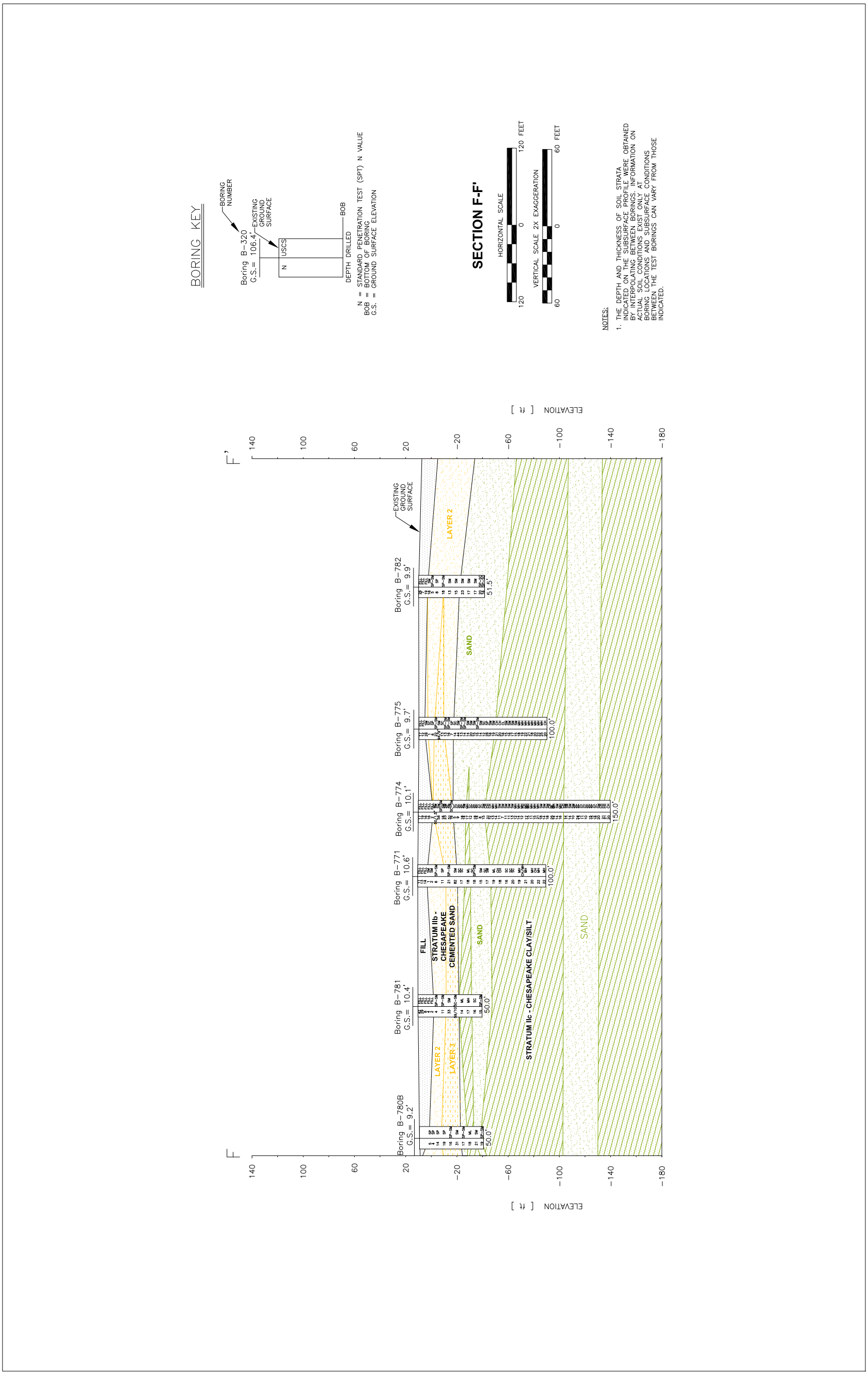

Figure 2.5-112— {Subsurface Profile F-F'}

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Figure 2.5-113— {SPT Data for Powerblock Area}

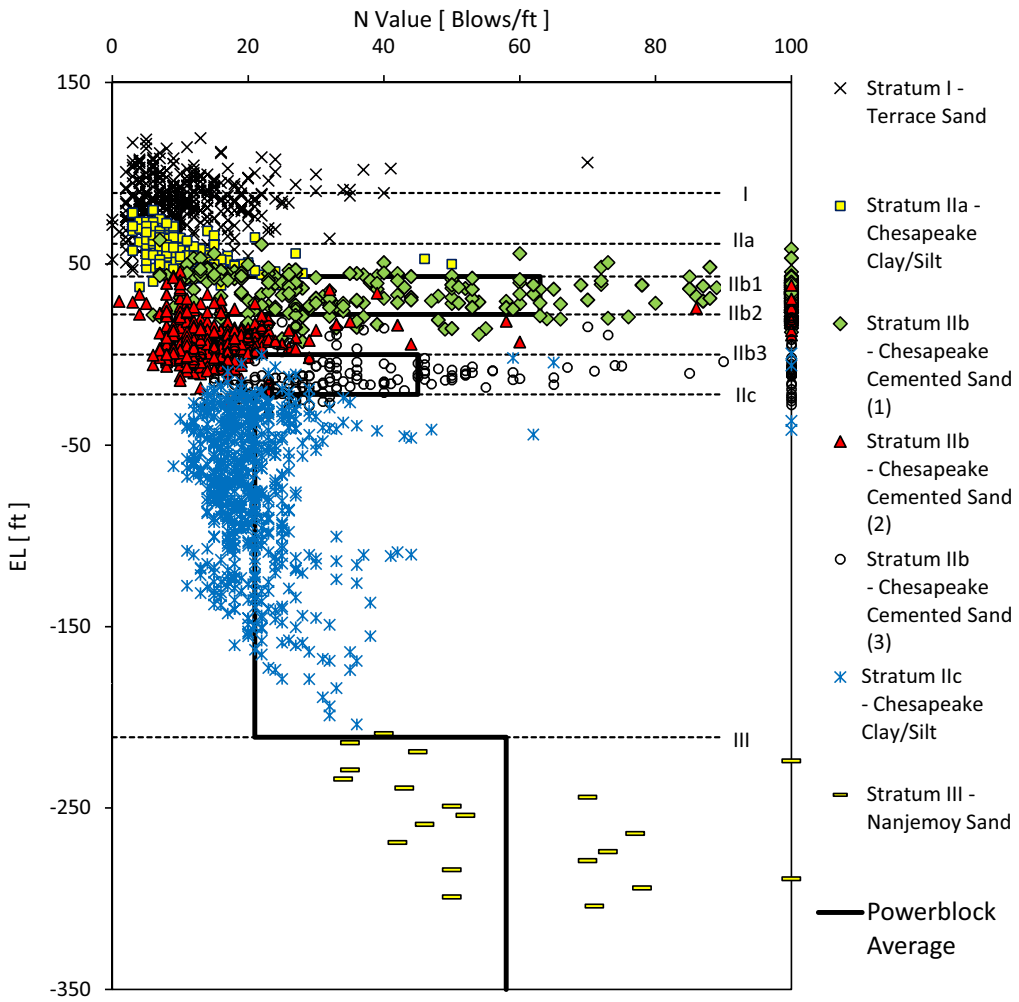

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Figure 2.5-114— {SPT Data for Intake Area}

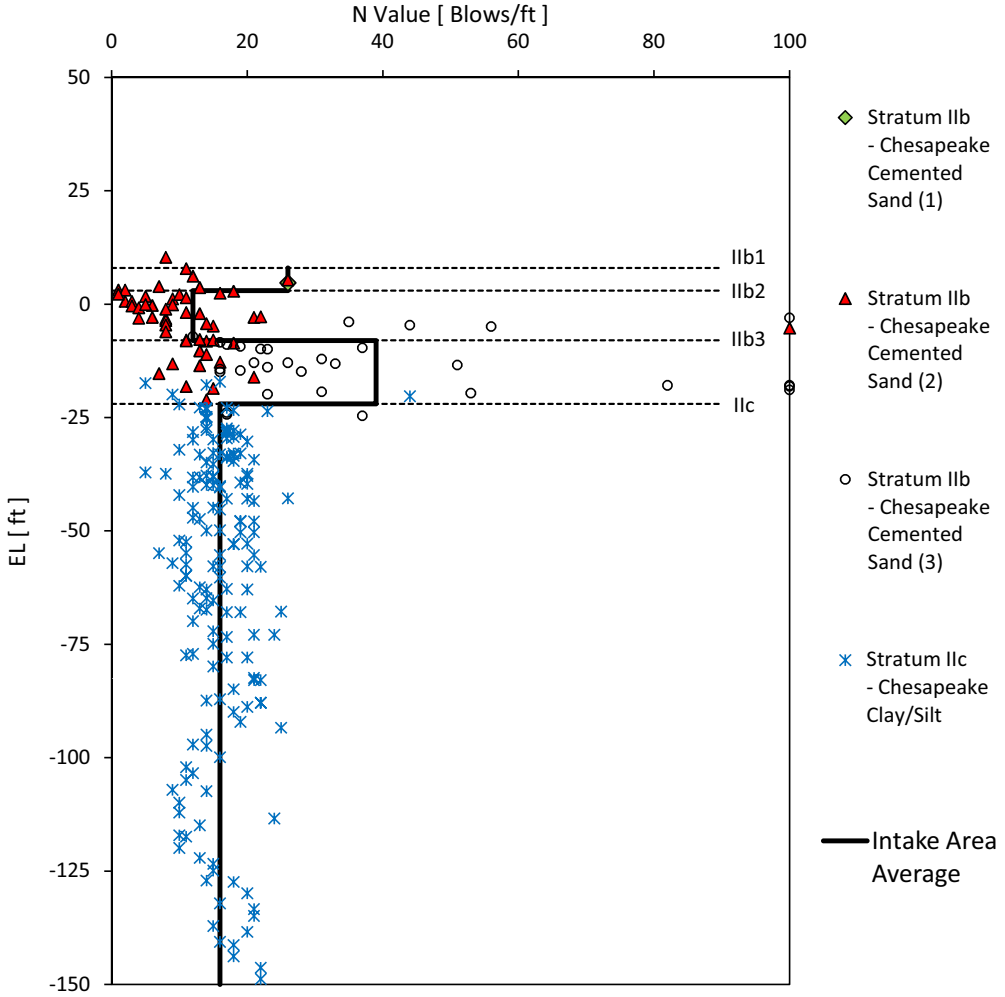

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Figure 2.5-115— { CPT Tip Resistance, Powerblock Area}

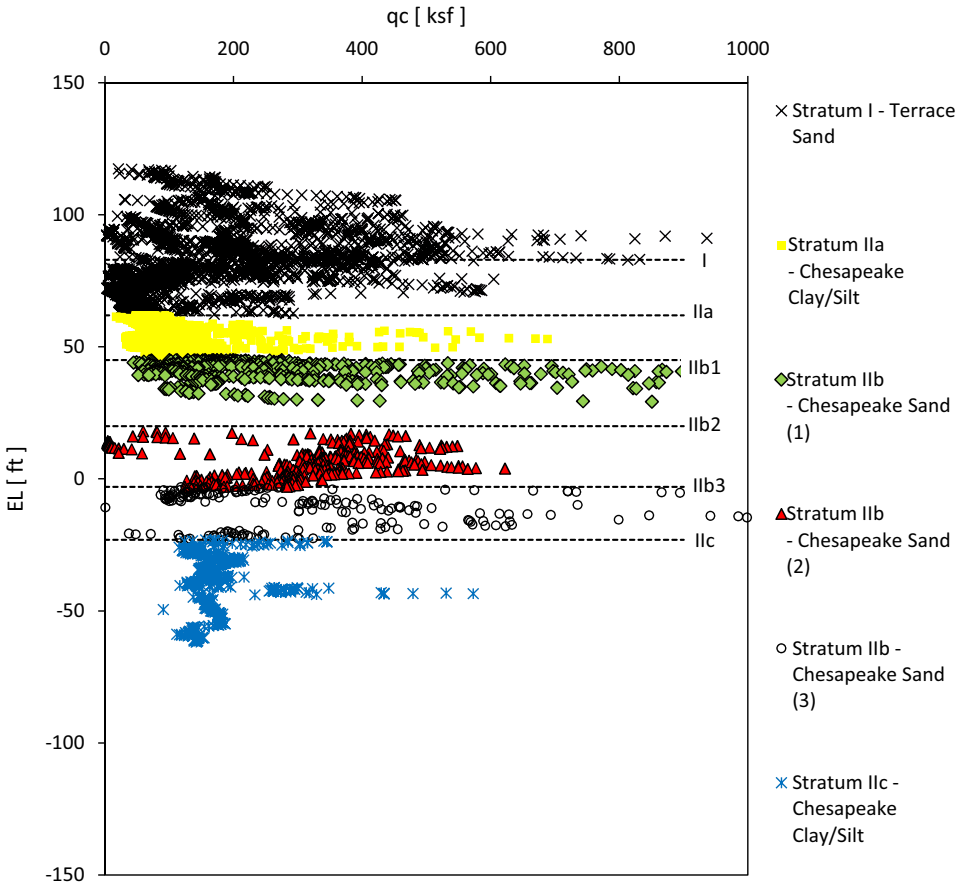

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Figure 2.5-116— {CPT Tip Resistance, Intake Area}

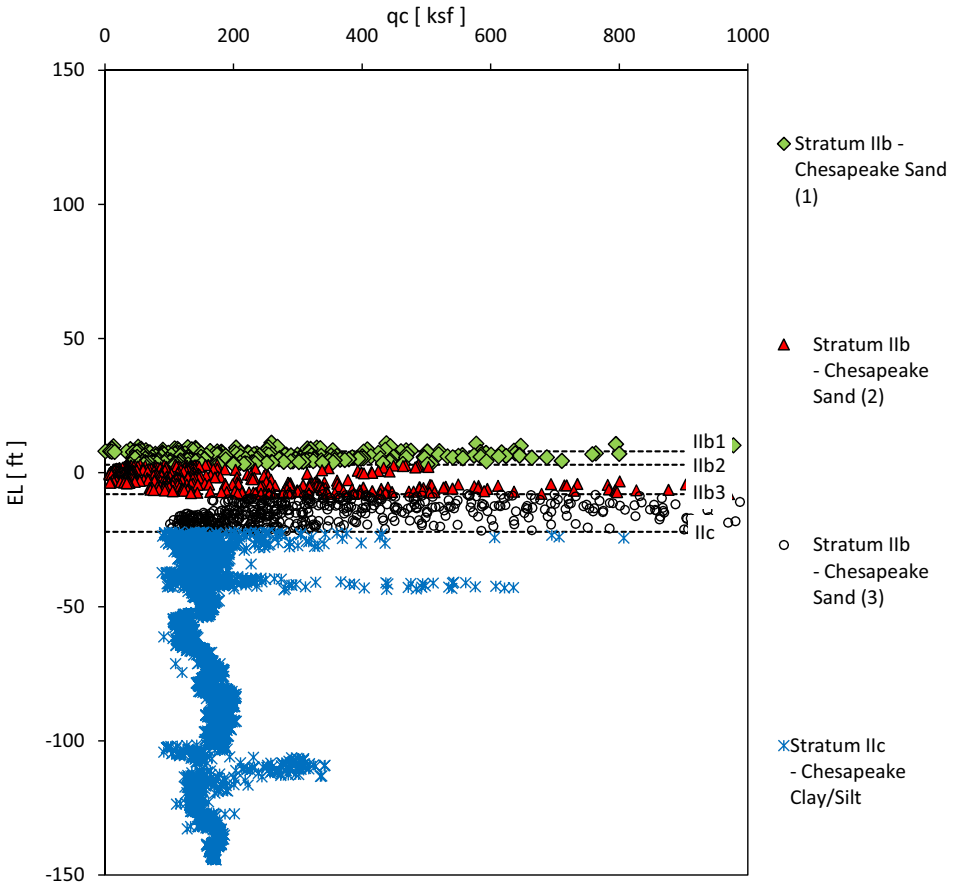

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Figure 2.5-117— {V_p Measurements from Suspension P-S Velocity Logging}

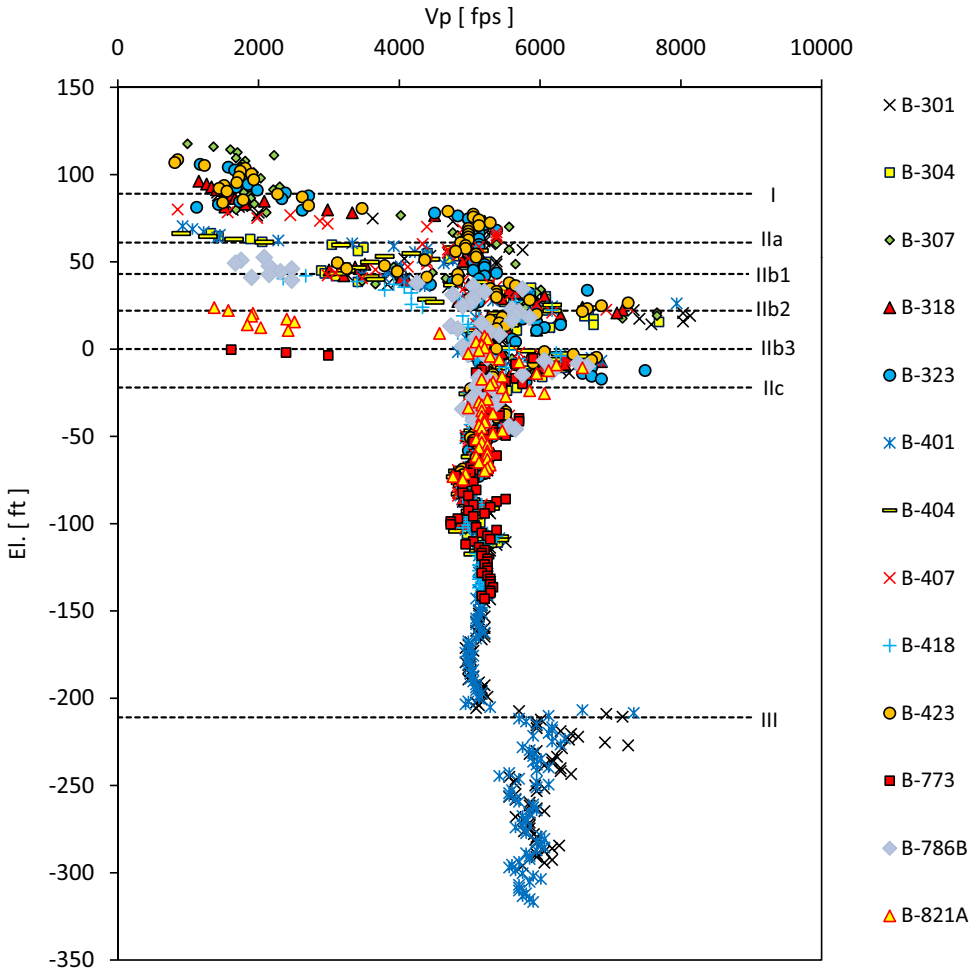

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Figure 2.5-118— {V_s Measurements from Suspension P-S Velocity Logging}

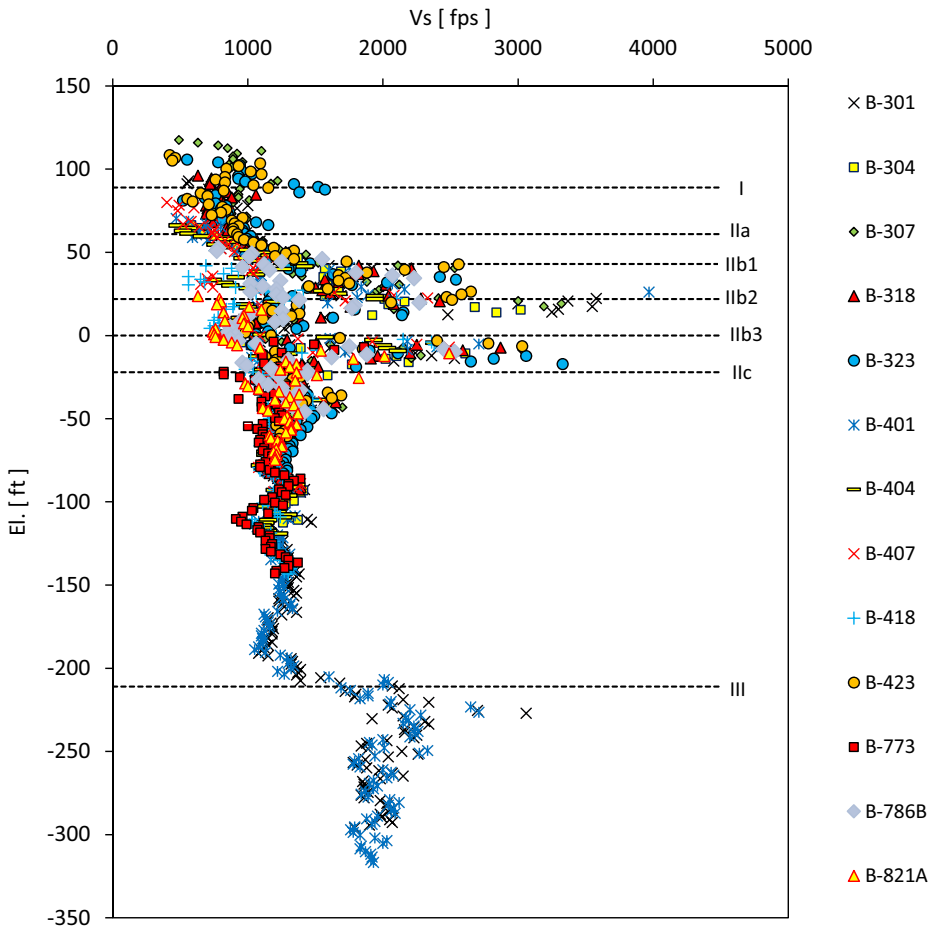

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Figure 2.5-119— {PS Logging Test at Intake Area B-773}

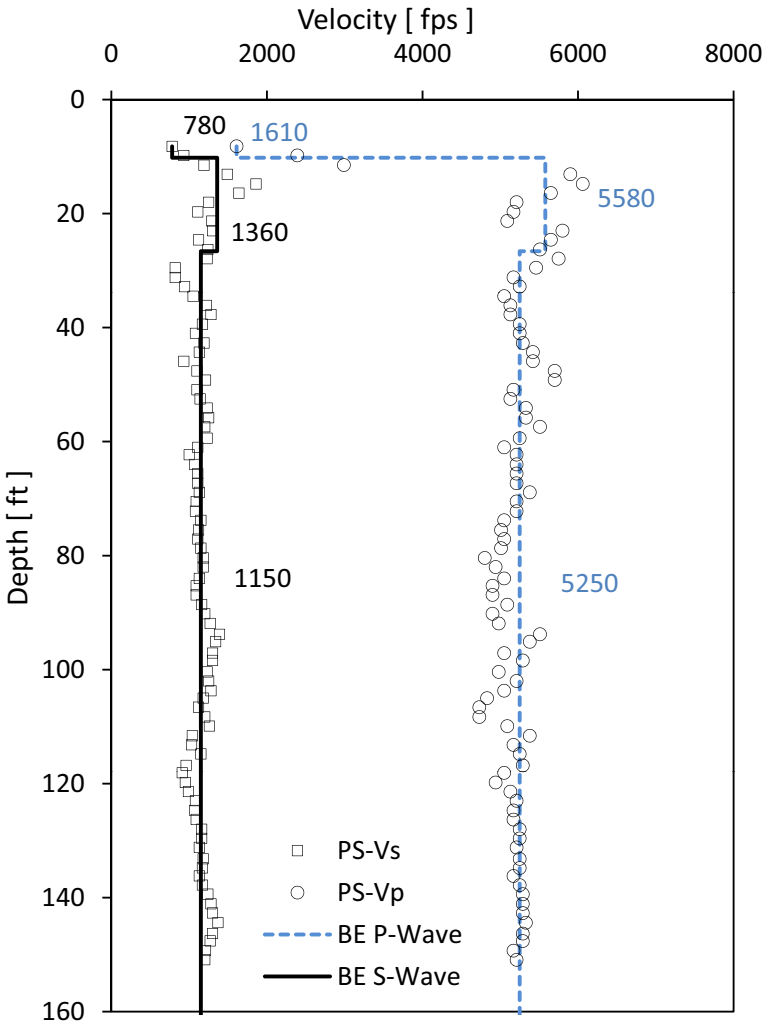

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Figure 2.5-120— {Uphole Seismic Survey Results from CCNPP Units 1 and 2 UFSAR}

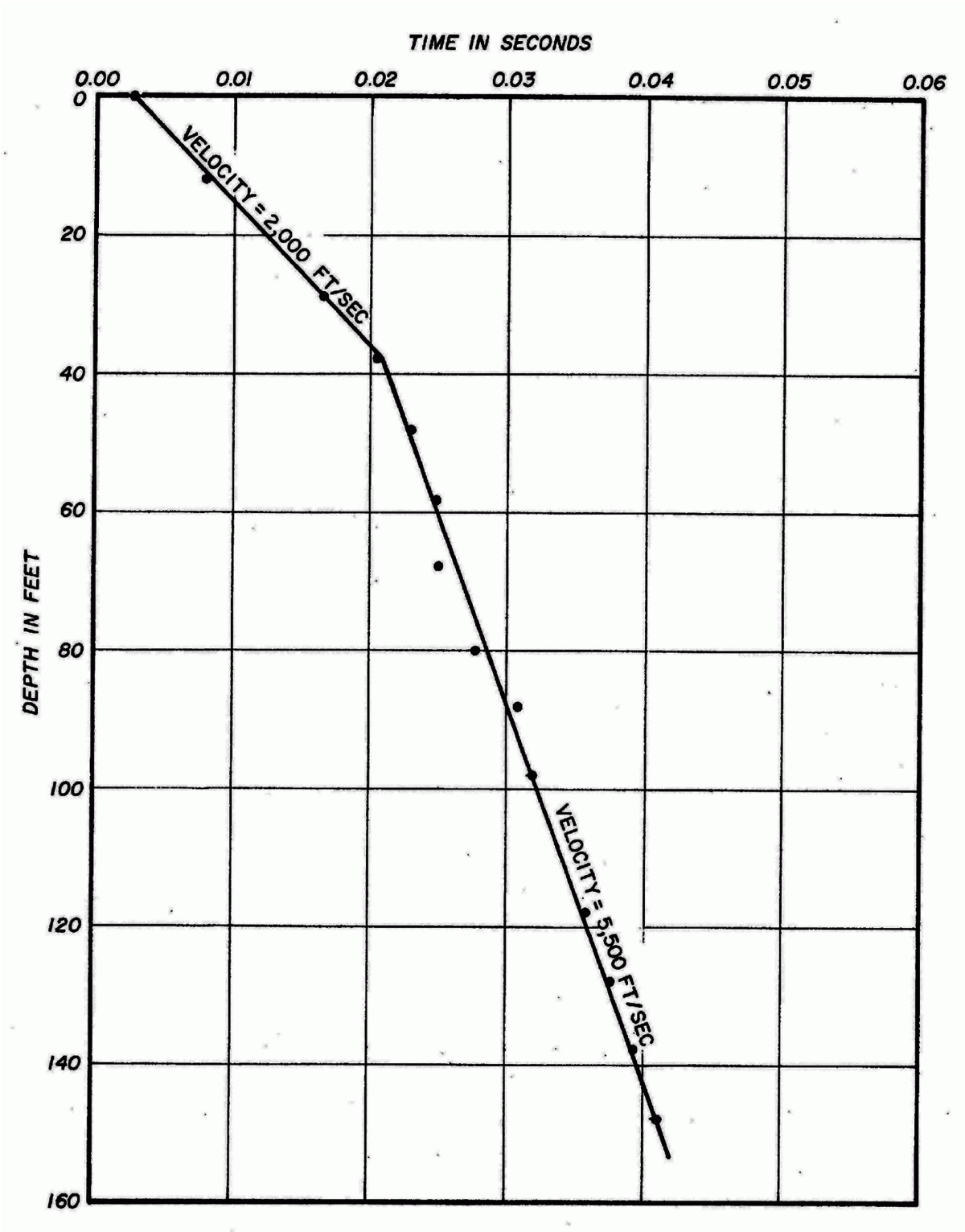

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Figure 2.5-121— {Pressuremeter Data}

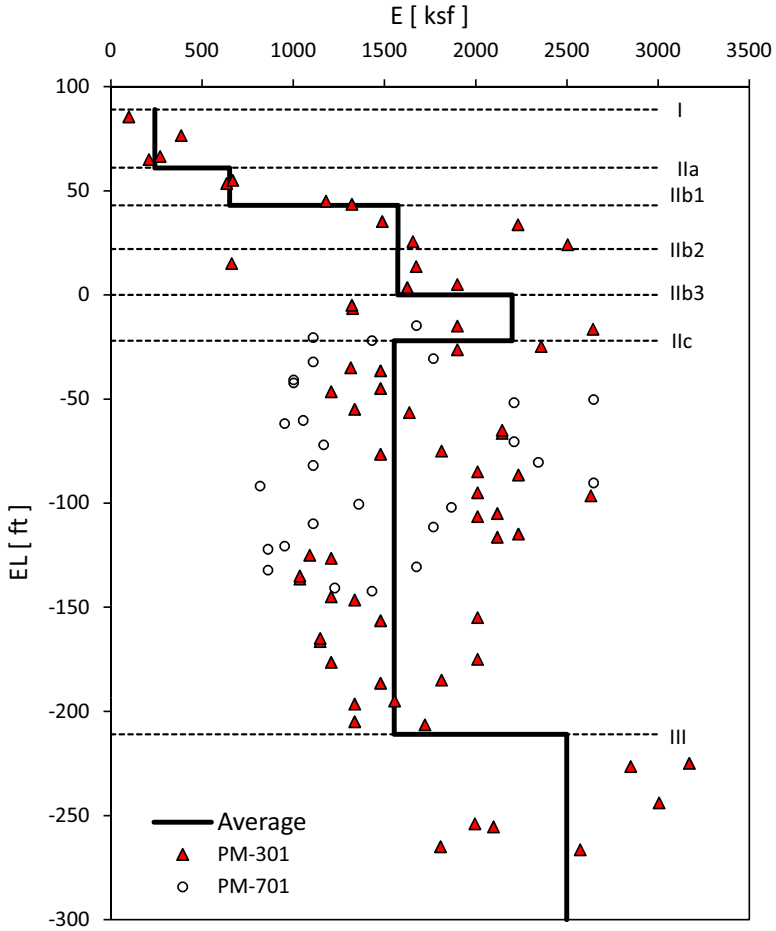

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Figure 2.5-122— {Moisture Content and Atterberg Limits, Powerblock Area}

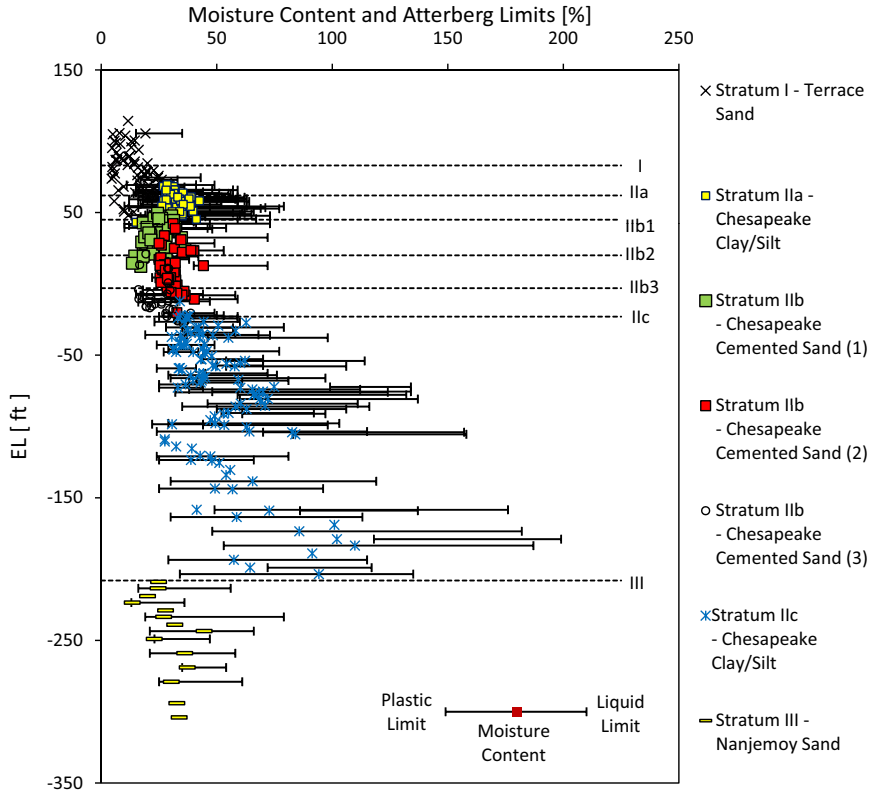

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Figure 2.5-123— {Moisture Content and Atterberg Limits, Intake Area}

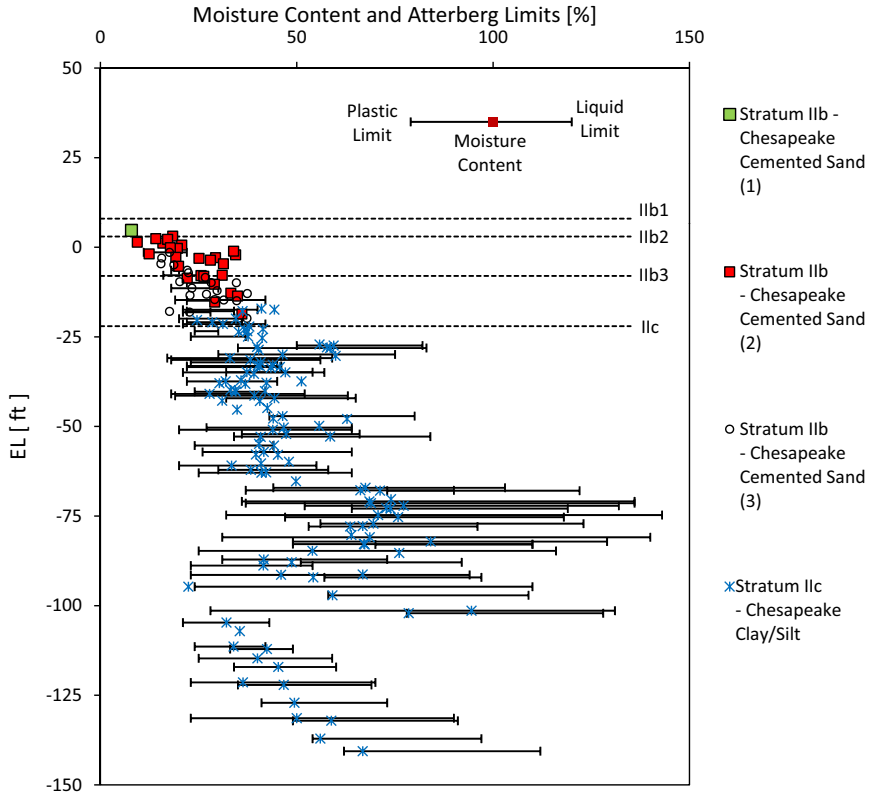

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Figure 2.5-124— {Plasticity Chart, Powerblock Area}

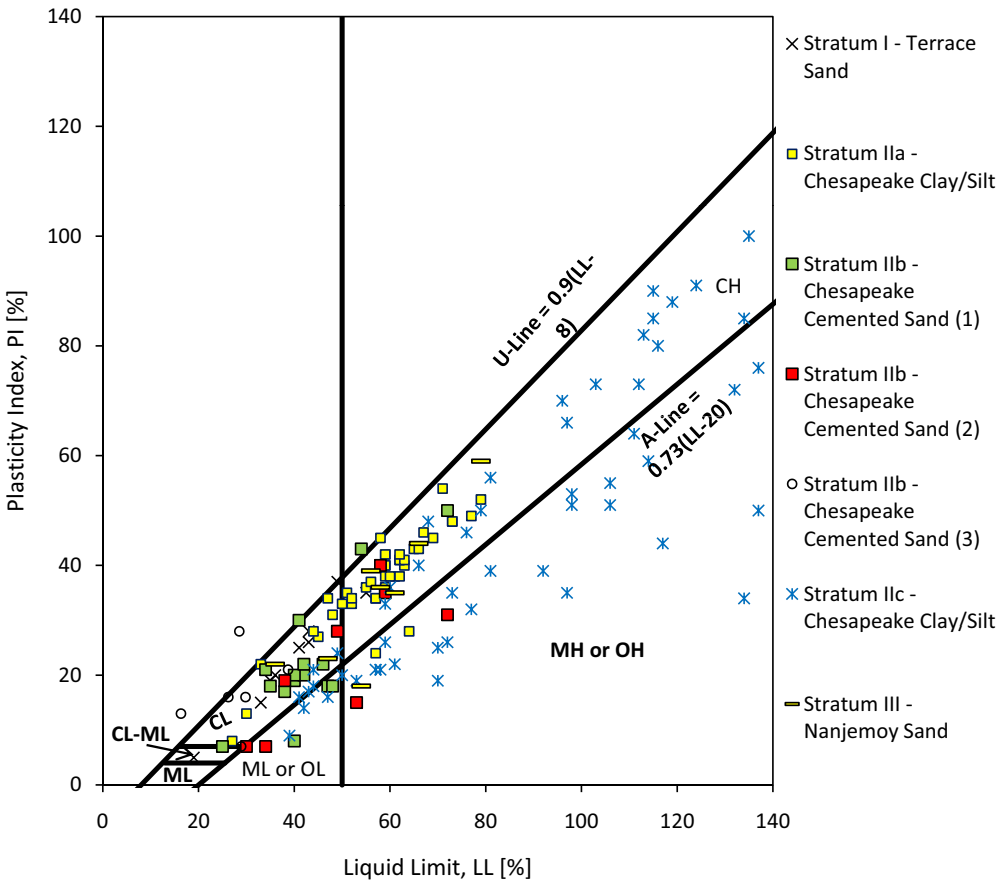

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Figure 2.5-125— {Plasticity Chart, Intake Area}

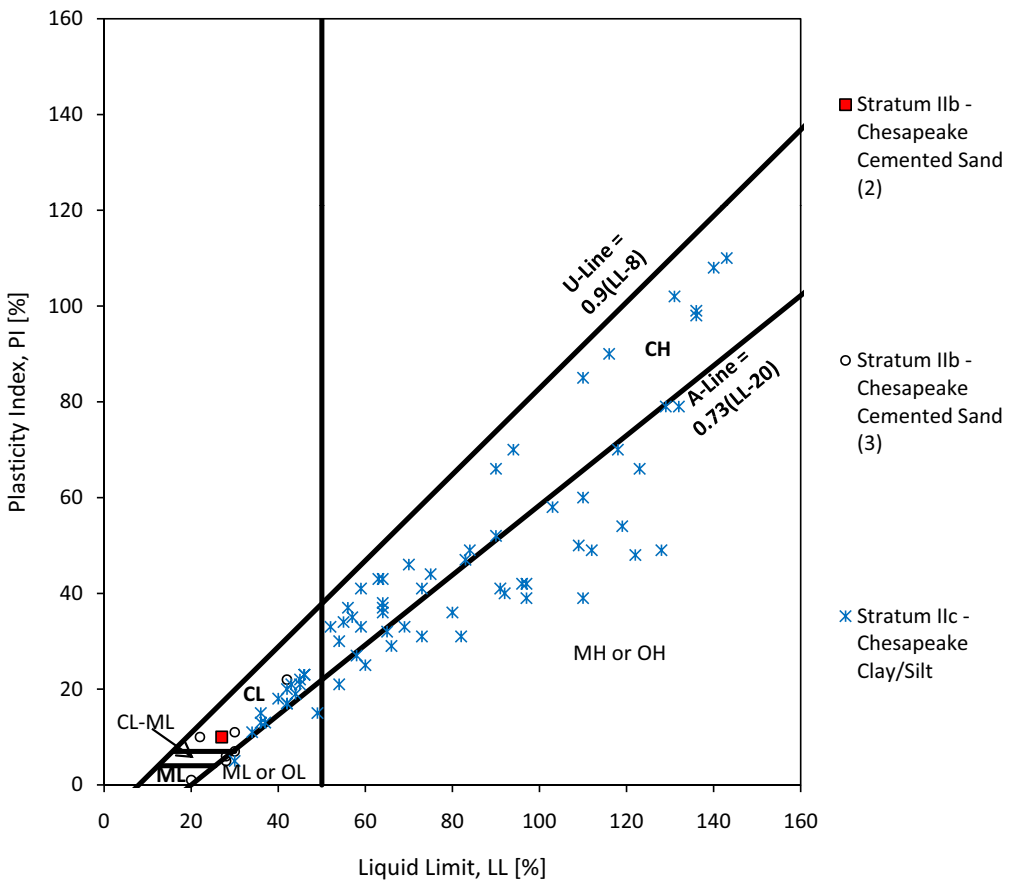

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Figure 2.5-126— {RCTS Testing Sample B-437-6, Powerblock Area}

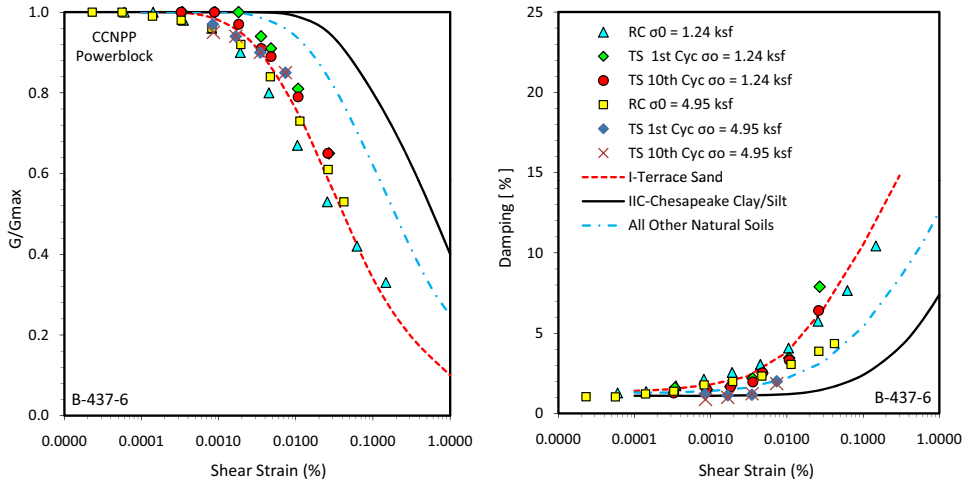

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Figure 2.5-127— {RCTS Testing Sample B-301-10, Powerblock Area}

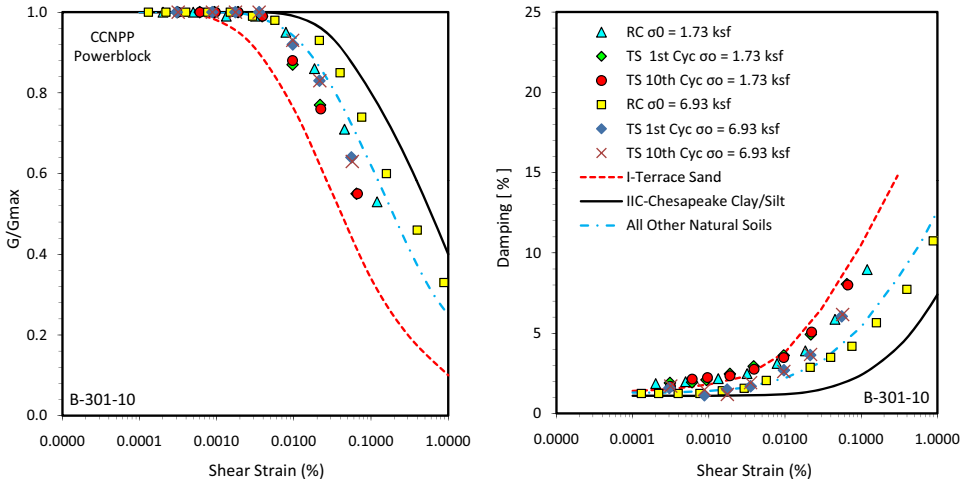

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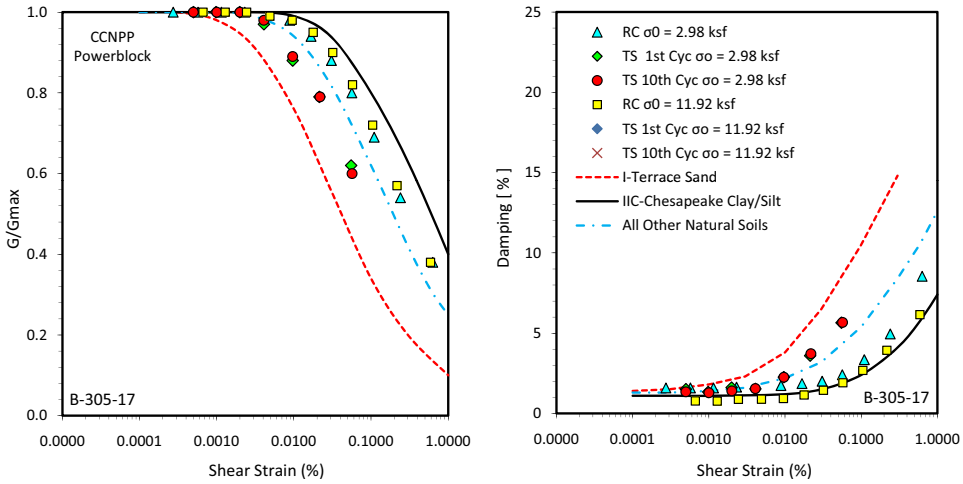
Figure 2.5-128— {RCTS Testing Sample B-305-17, Powerblock Area}



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