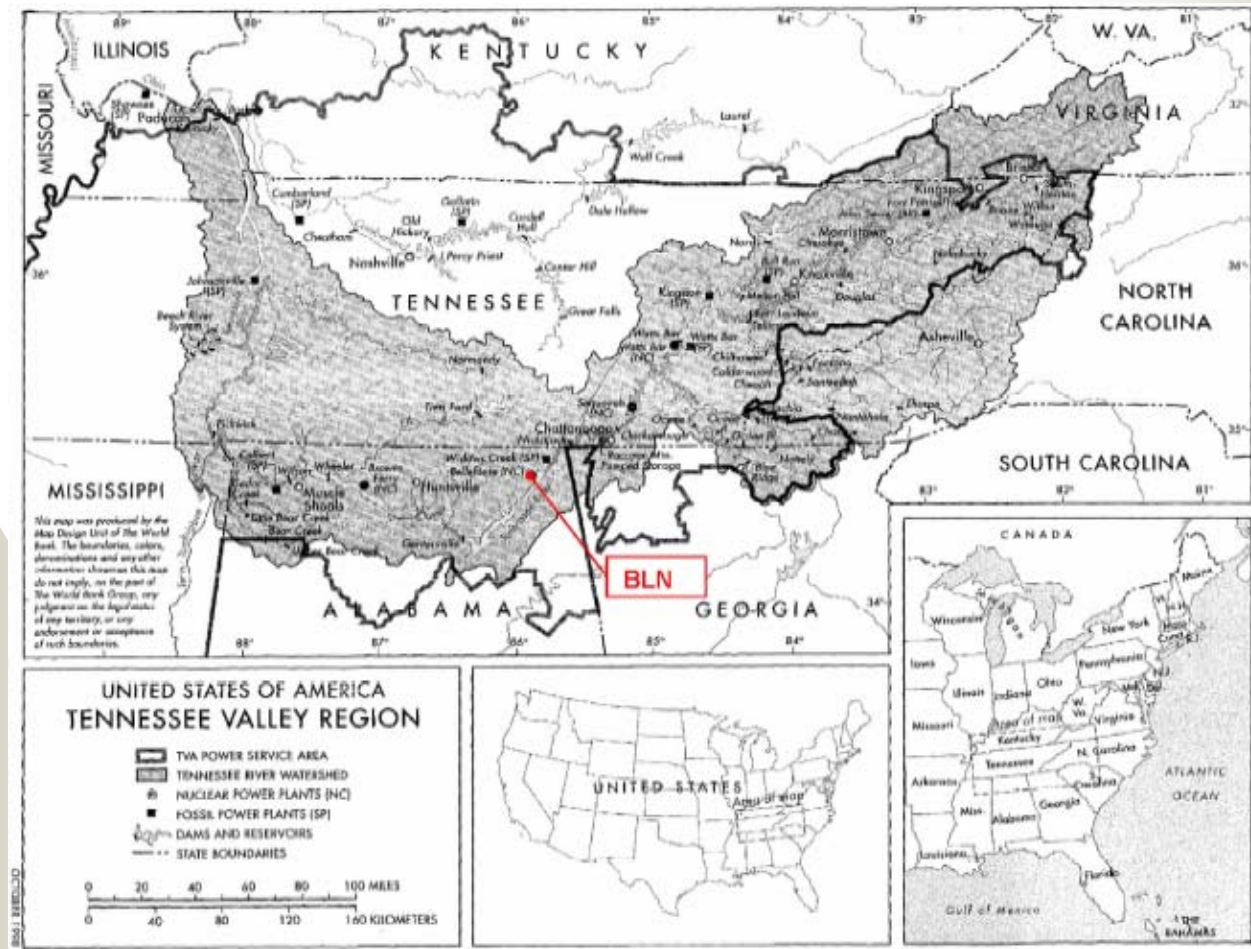


Flood Hydrology



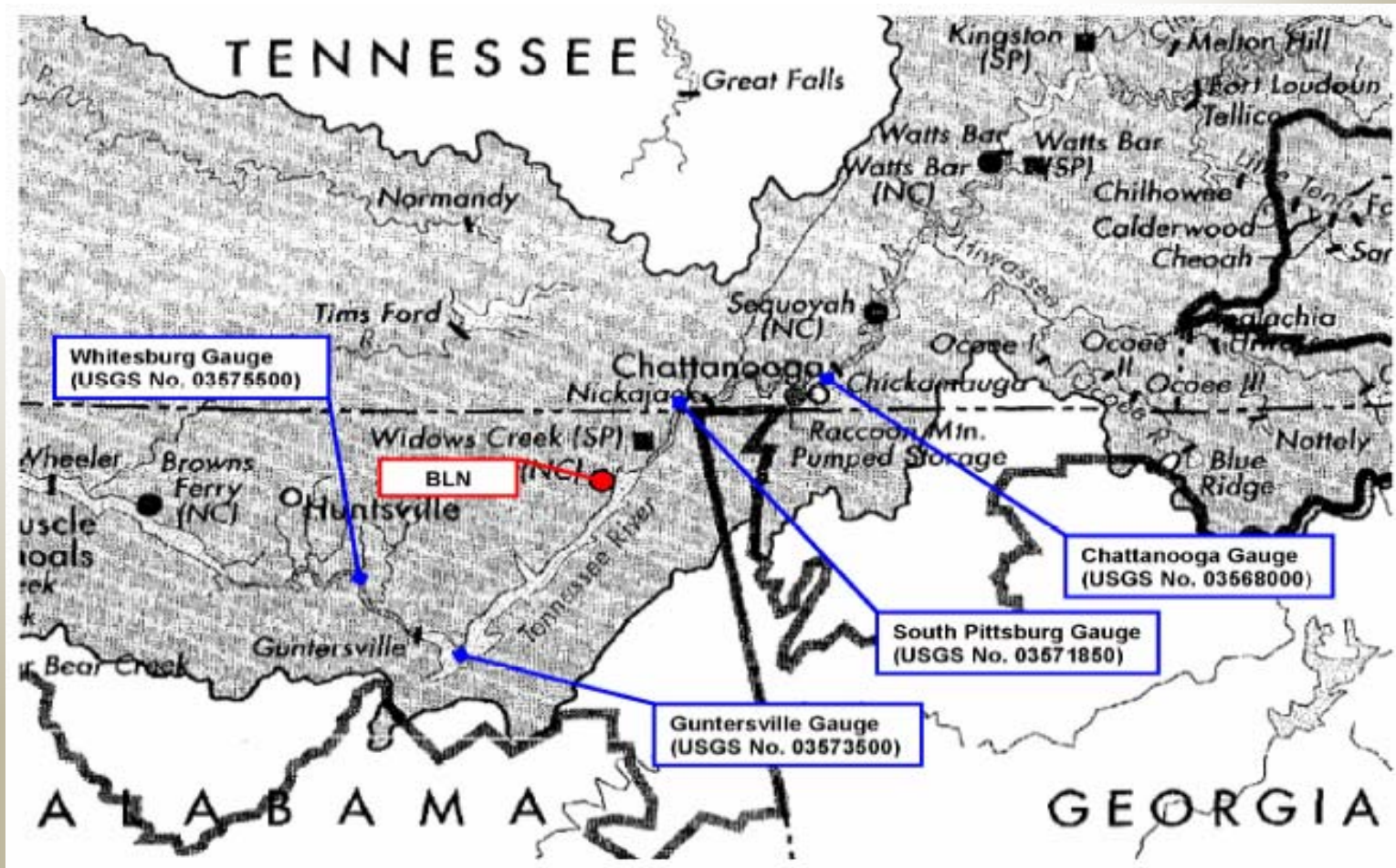
Flood Hydrology



USGS Gauges

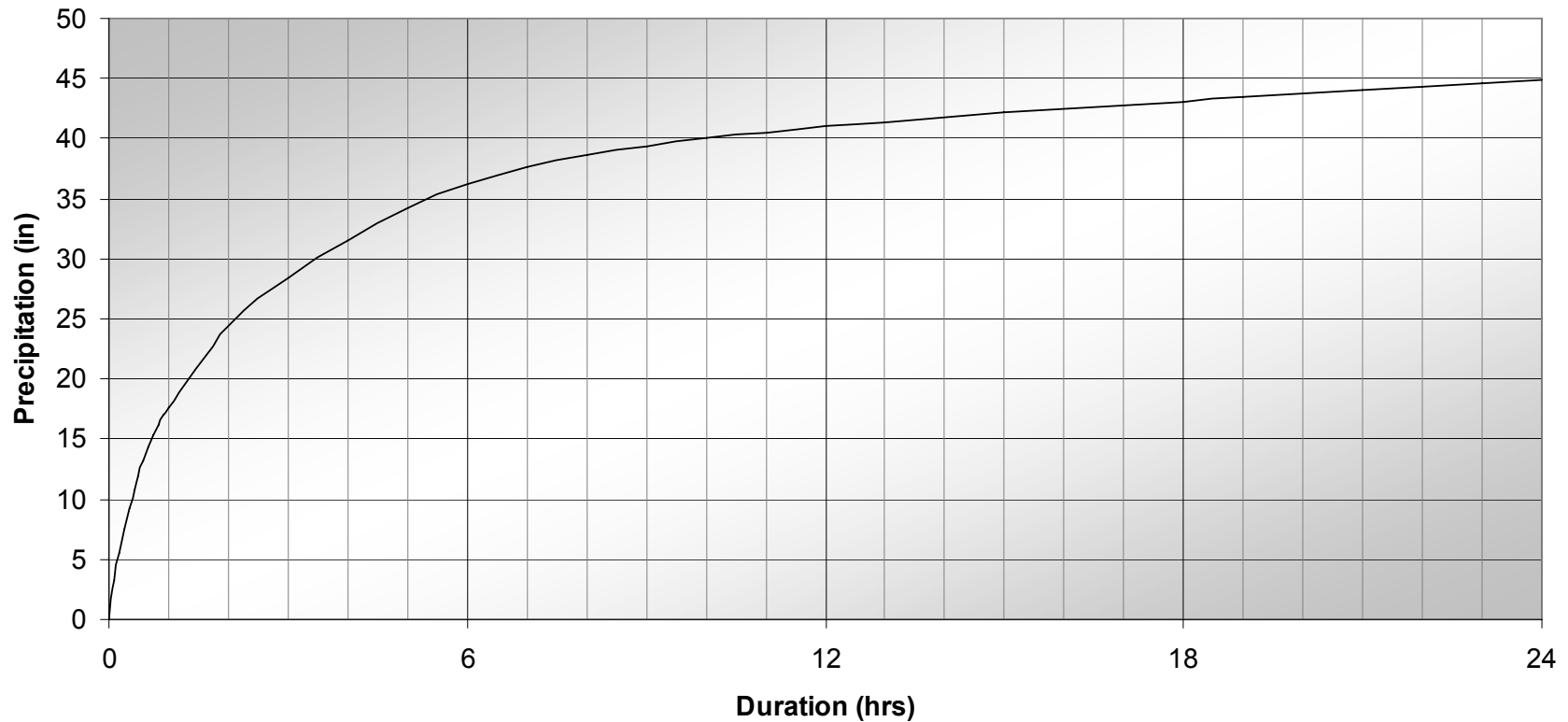
- Chattanooga (1867-2005)
- South Pittsburg (1917-1987)
- Guntersville (1867-1938)
- Whitesburg (1925-2005)

USGS Gauges



Local Intense Precipitation Depth Duration Curve

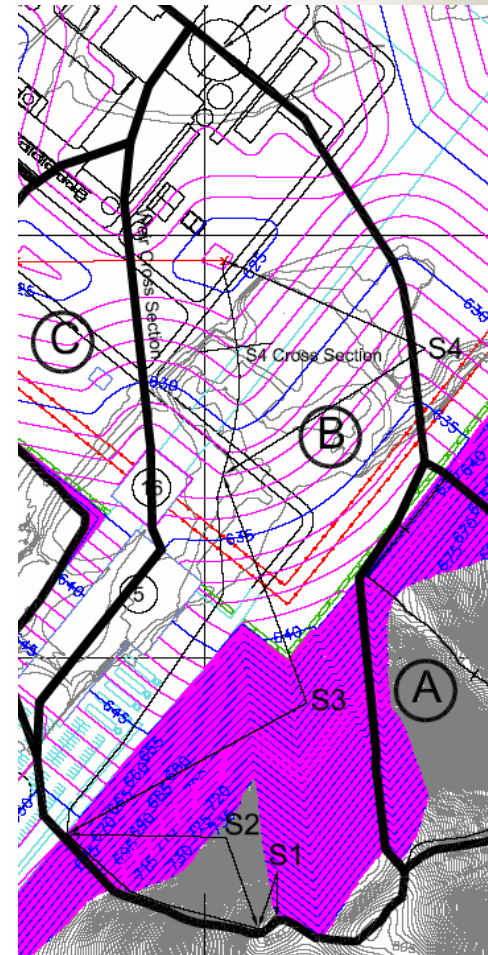
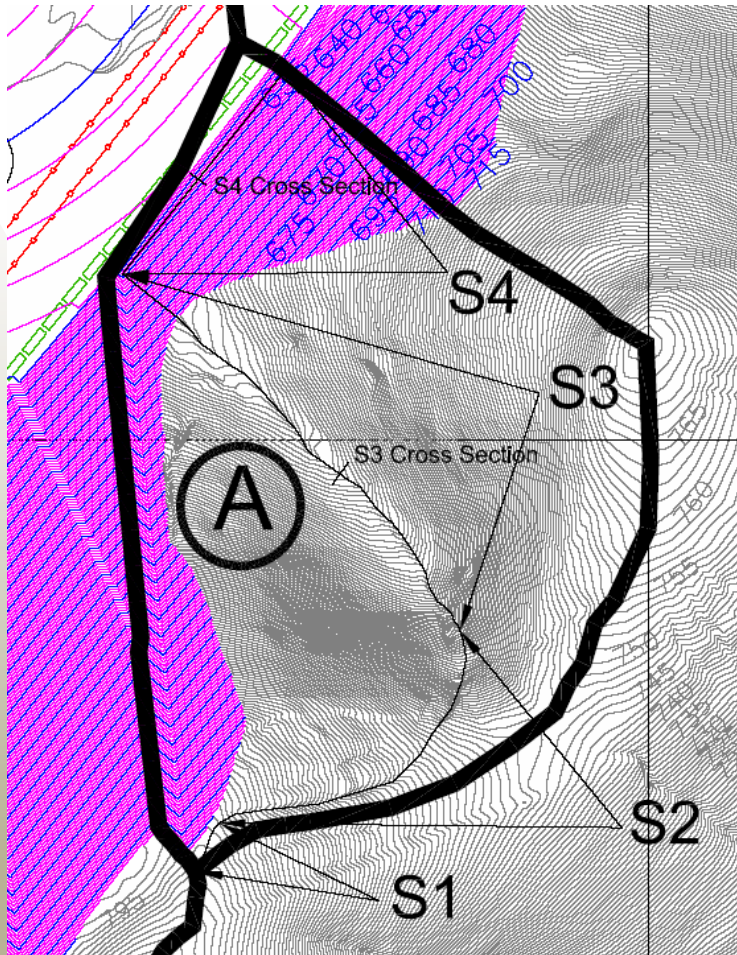
HMR56 Probable Maximum Precipitation



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[illegible]

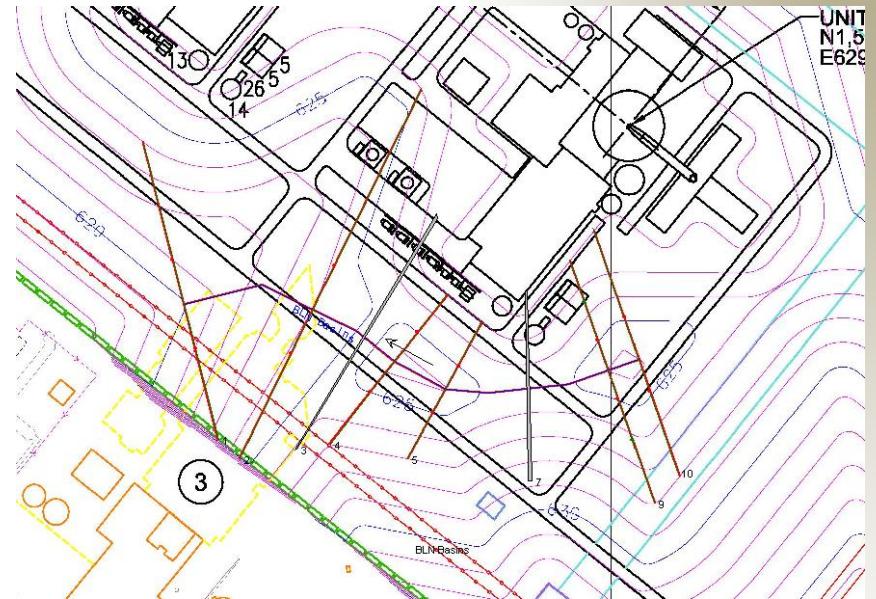
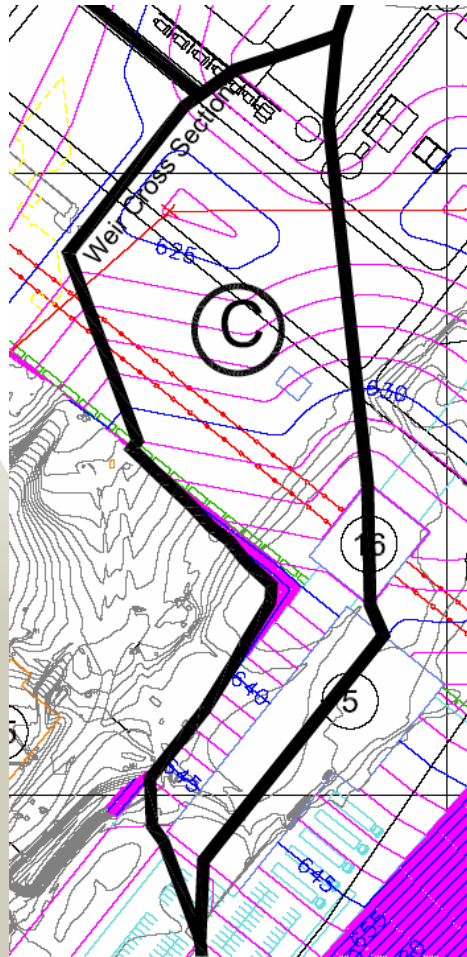
Grading and Drainage



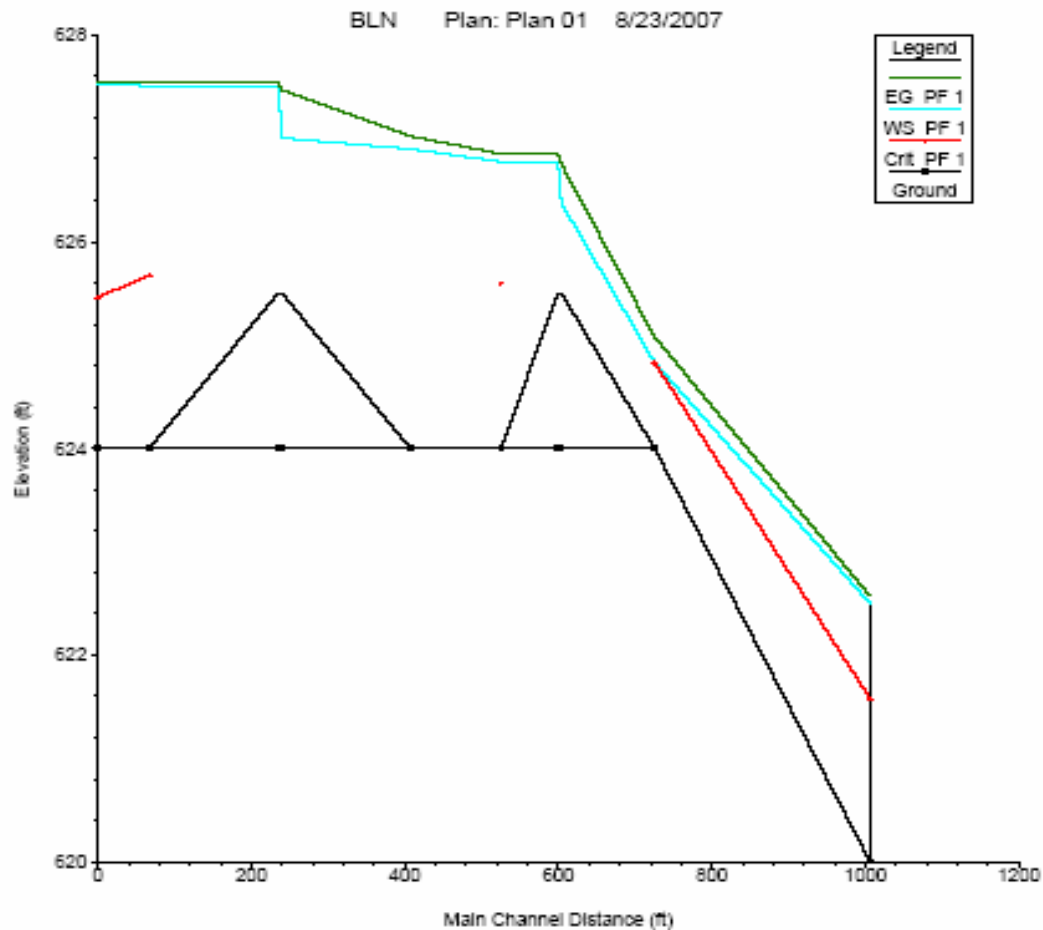
ENERCON

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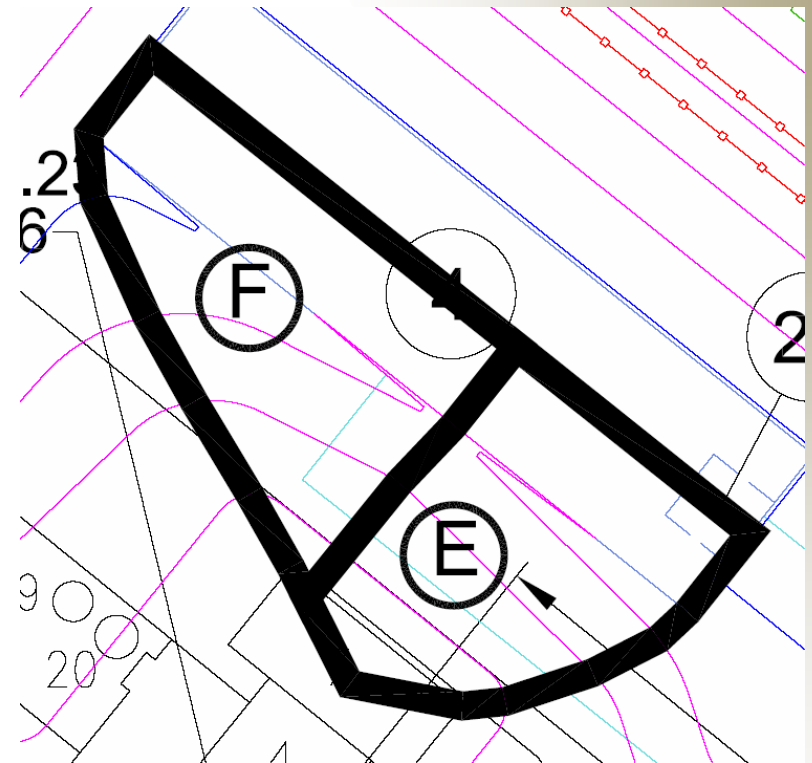
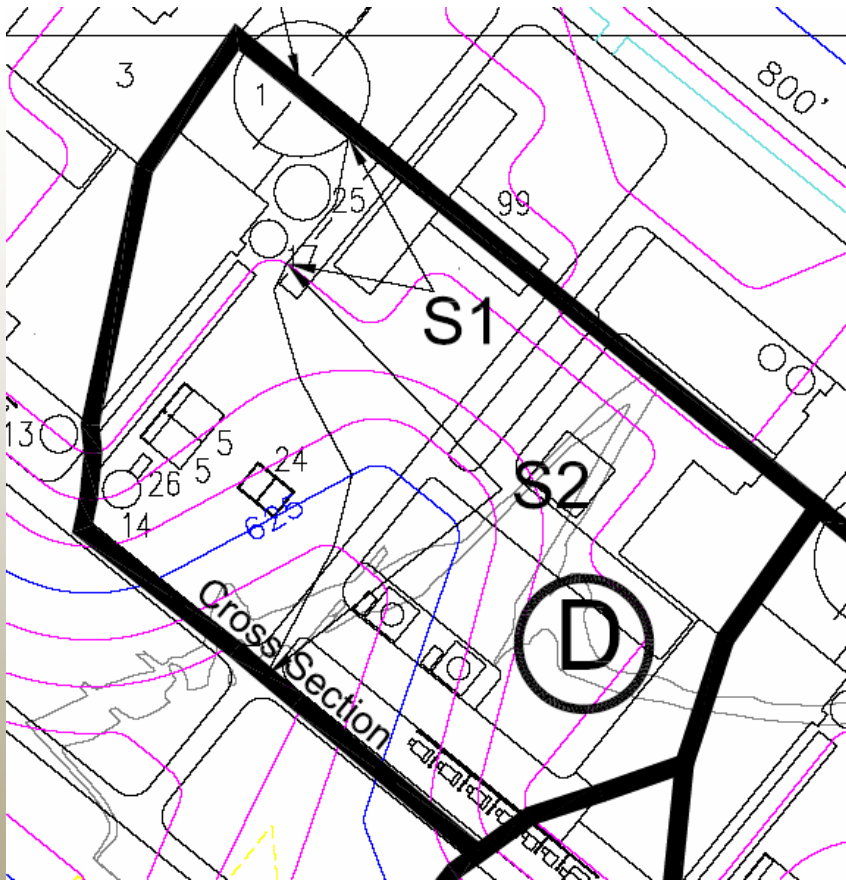
Grading and Drainage



Grading and Drainage



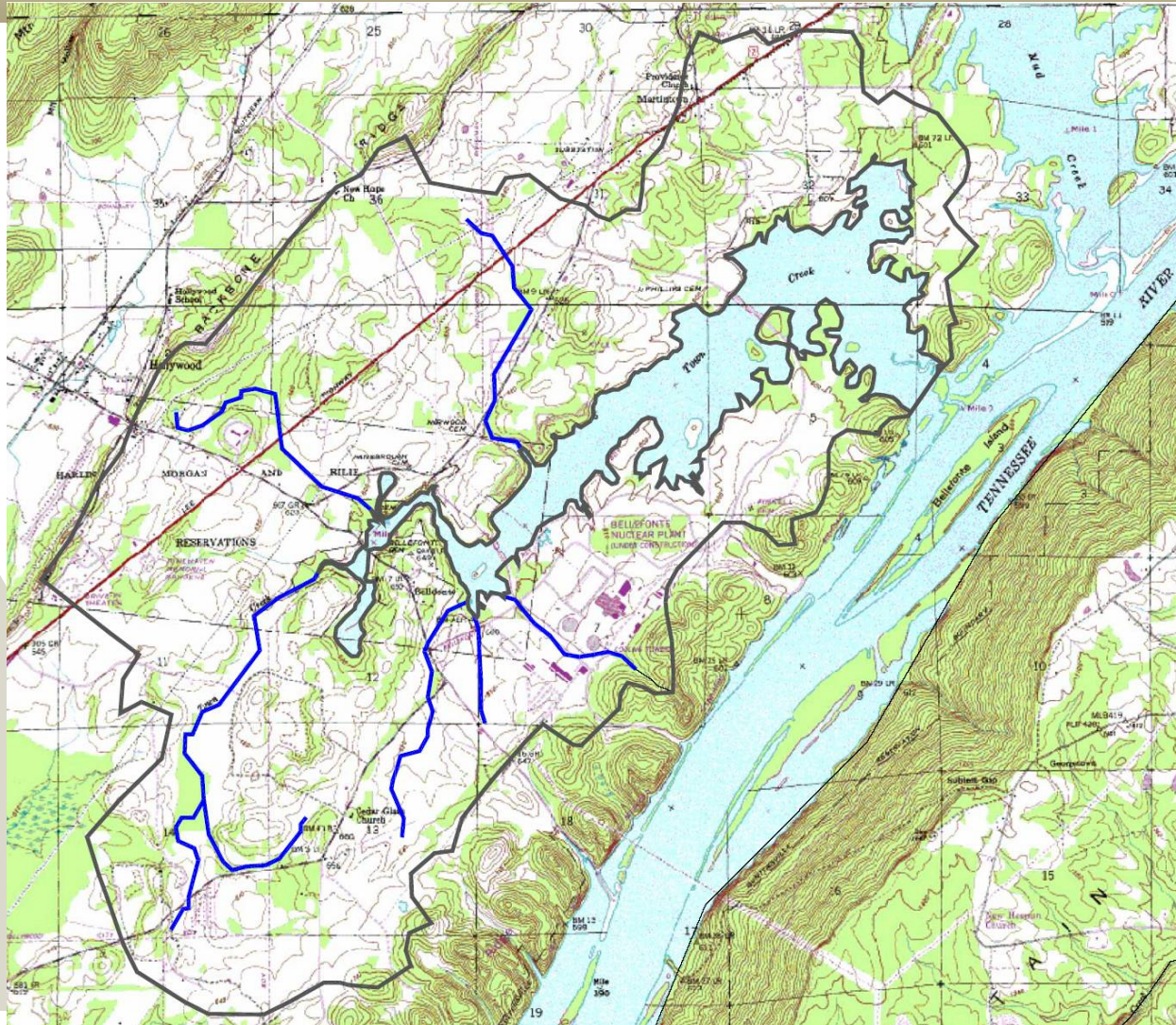
Grading and Drainage



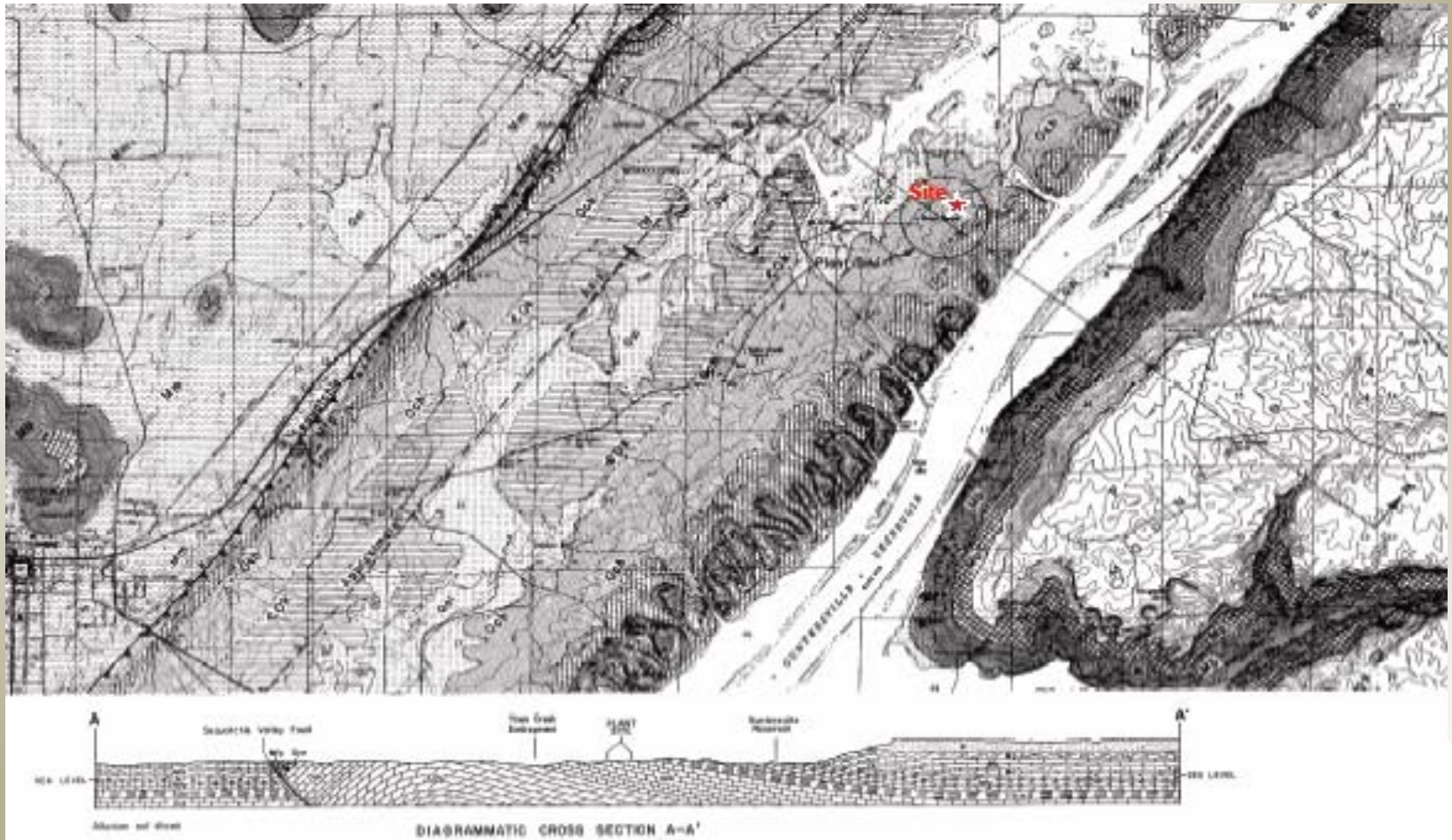
Grading and Drainage

- Manning's Roughness Coefficient
- Developed Areas, $n = 0.035$
- Undeveloped Areas, $n = 0.05$
- Sensitivity Increase/Decrease 50%
- Area B
 - $n = 0.035$, WSEL = 627.51 ft.
 - $n = 0.053$, WSEL = 627.57 ft.
 - $n = 0.018$, WSEL = 627.47 ft.

Town Creek Watershed



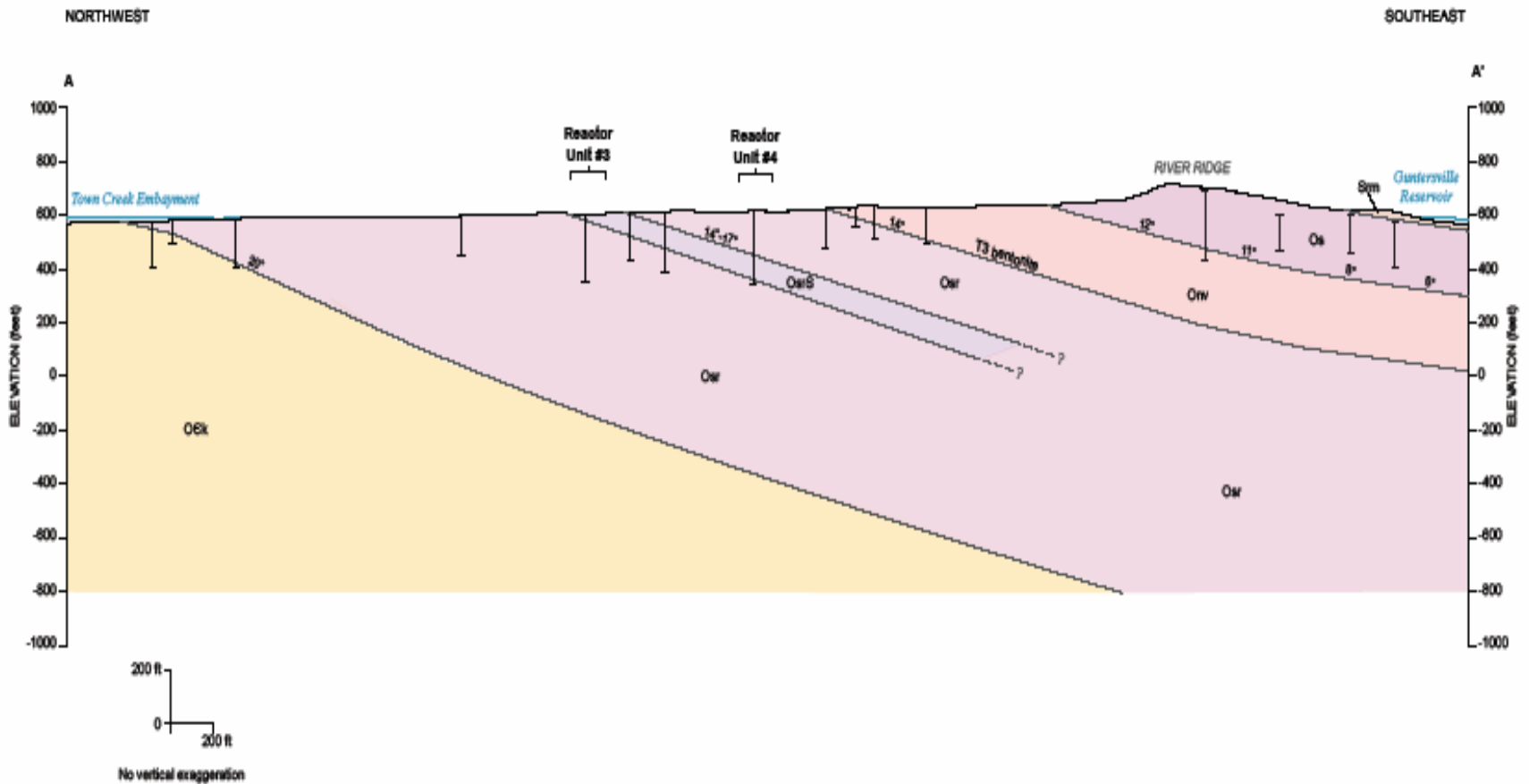
Channel Diversions



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Channel Diversions



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Channel Diversions



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PMP/PMF/Dam Failure

