PMBelCOL PEmails

From: Ray, Phillip M [pmray@tva.gov]
Sent: Monday, May 19, 2008 9:58 AM
To: Joseph Sebrosky
Subject: BLN Site Visit Presentation Info
Attachments: Flood Hydrology.pdf

Joe,

Attached is some of the presentation information.
This e-mail includes Flood Hydrology presentation.
Thank,

Phil

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 828

Mail Envelope Properties (28921B76CDD05940A918AEEC9EBCA7C0078D806F)

Subject: BLN Site Visit Presentation Info
Sent Date: 5/19/2008 9:58:21 AM
Received Date: 5/19/2008 10:02:44 AM
From: Ray, Phillip M

Created By: pmray@tva.gov

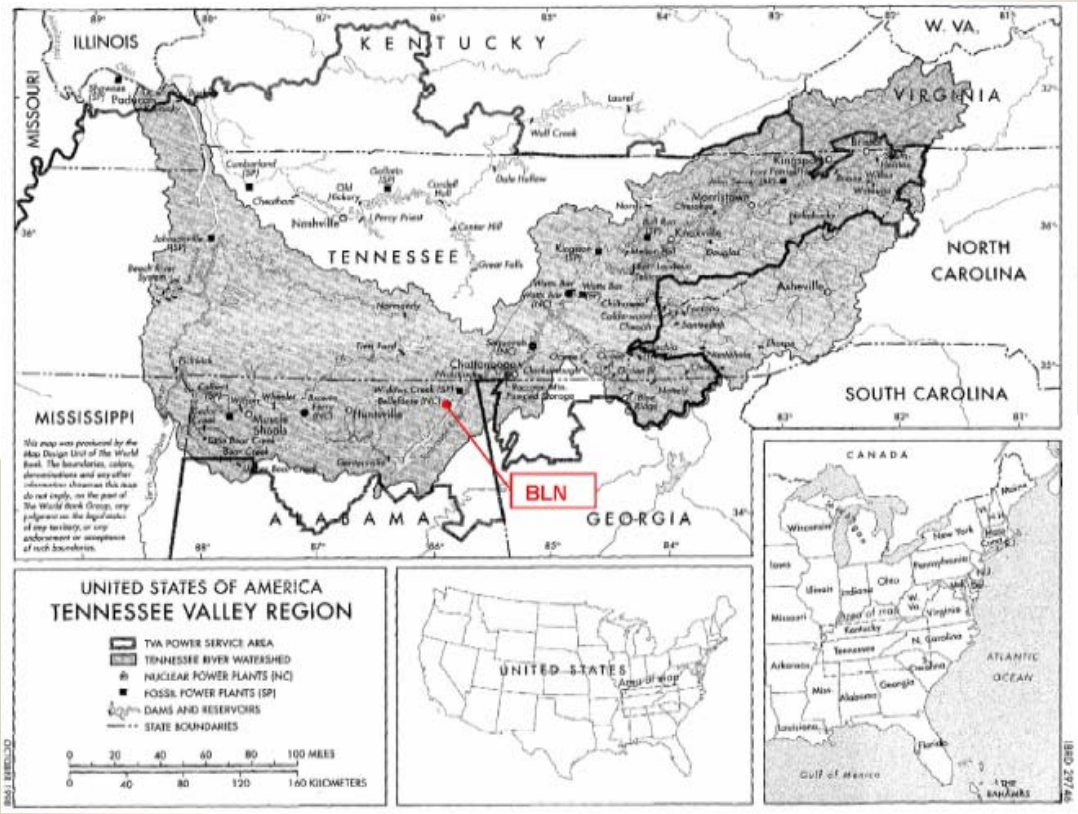
Recipients:
"Joseph Sebrosky" <Joseph.Sebrosky@nrc.gov>
Tracking Status: None

Post Office: TVACOCXVS1.main.tva.gov

Files	**Size**	**Date & Time**
MESSAGE	127	5/19/2008 10:02:44 AM
Flood Hydrology.pdf	4063735	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Flood Hydrology



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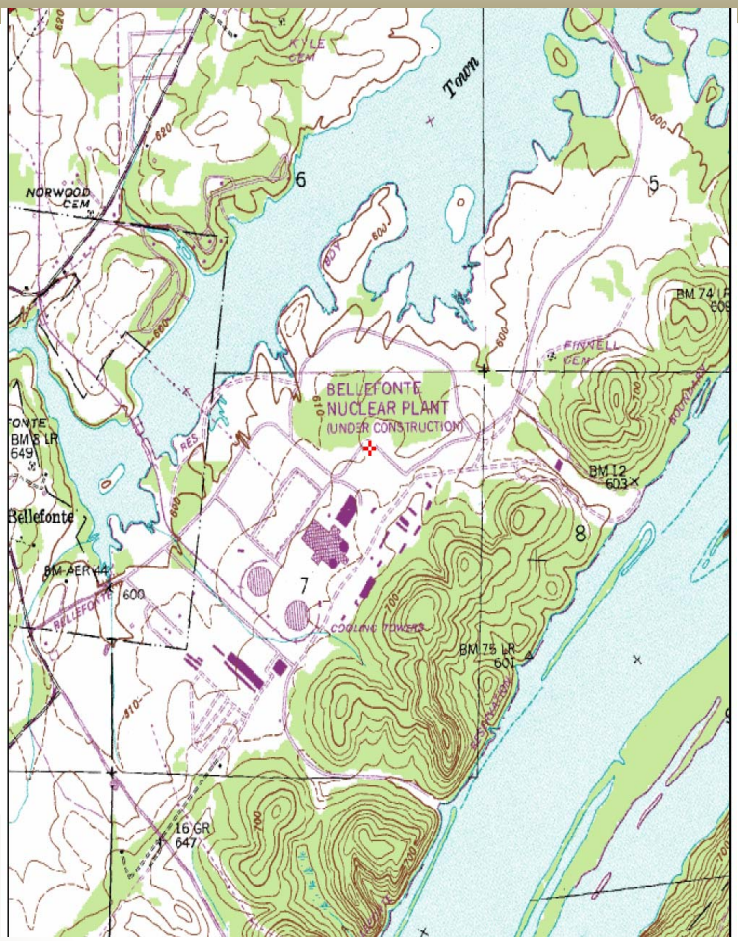
Flood Hydrology



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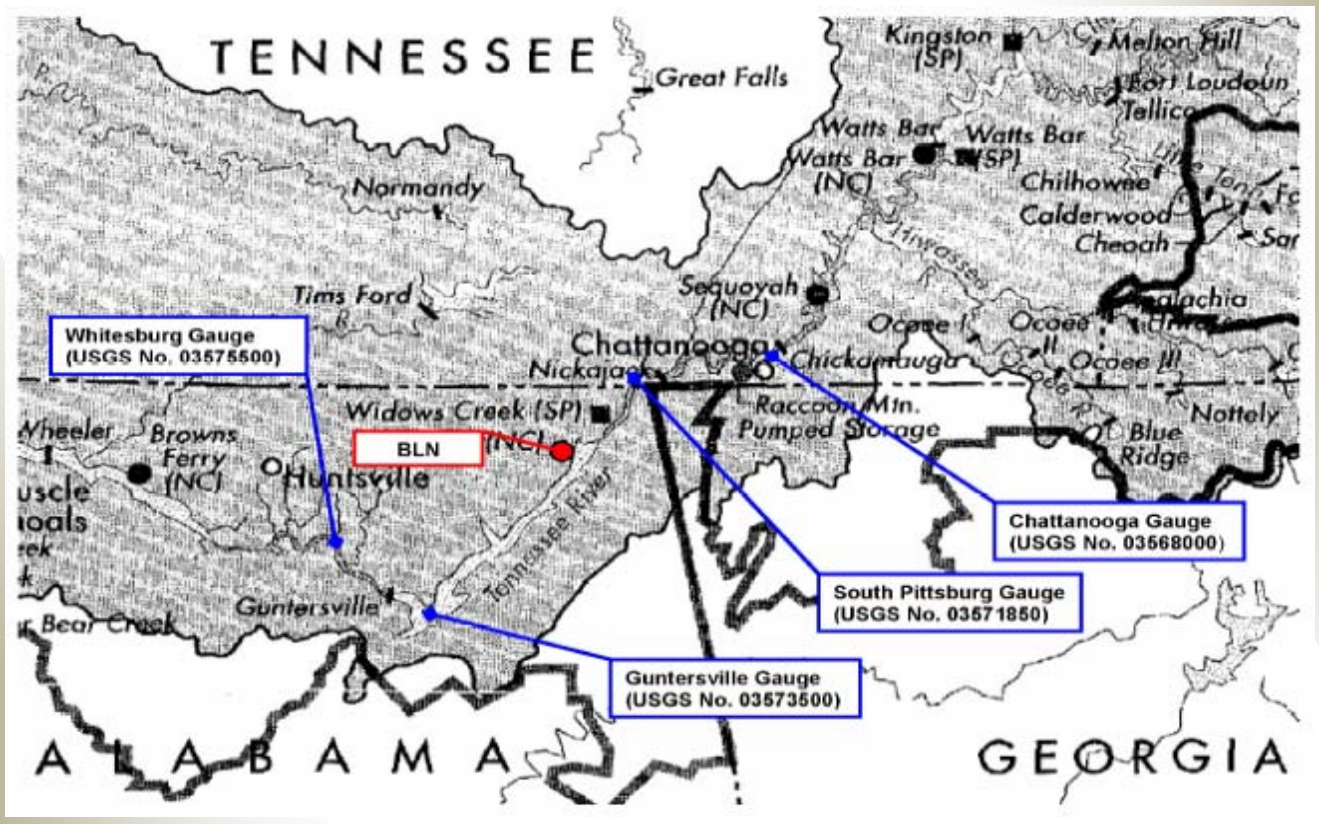
USGS Gauges

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

USGS Gauges



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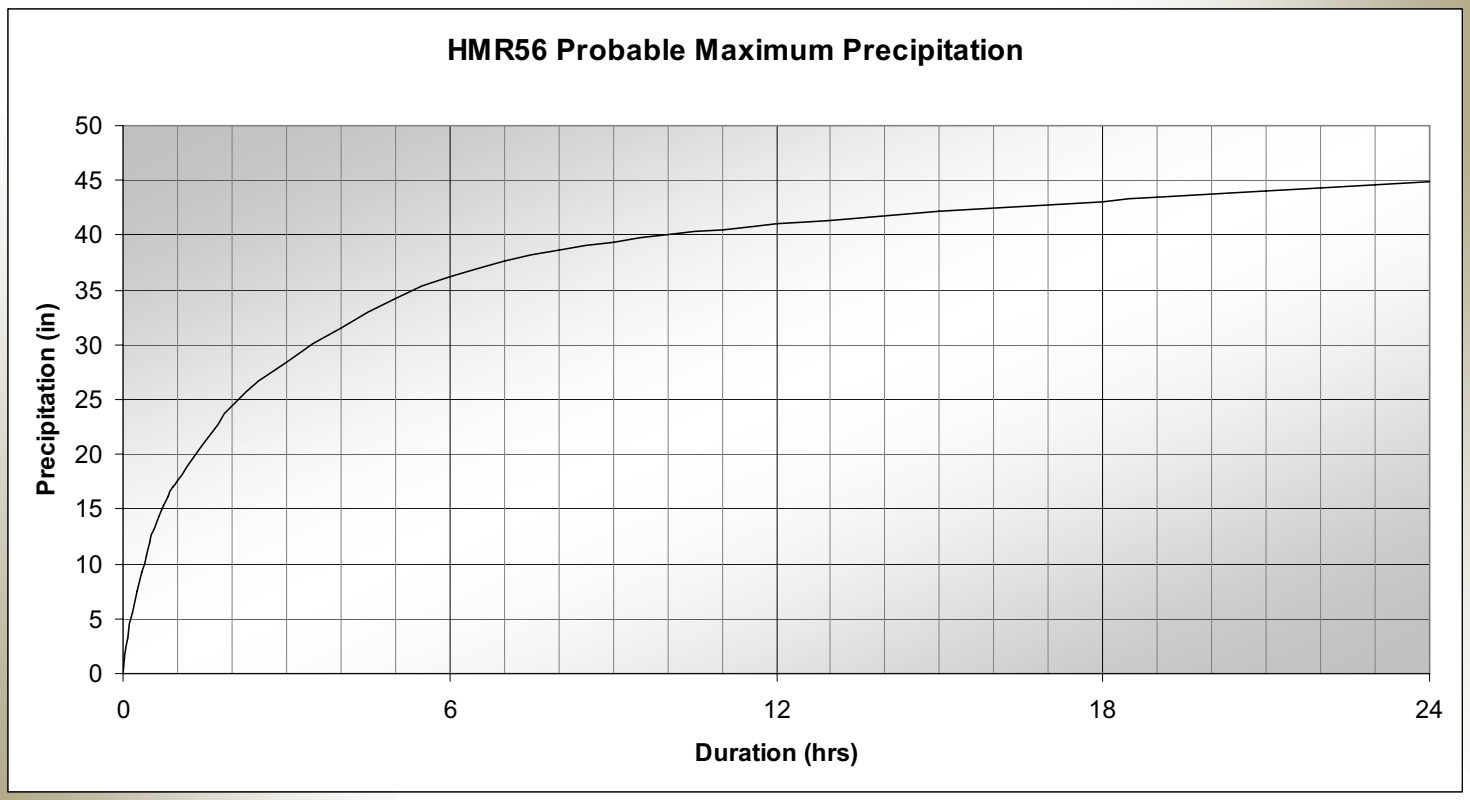
Local Intense Precipitation Depth Duration Curve



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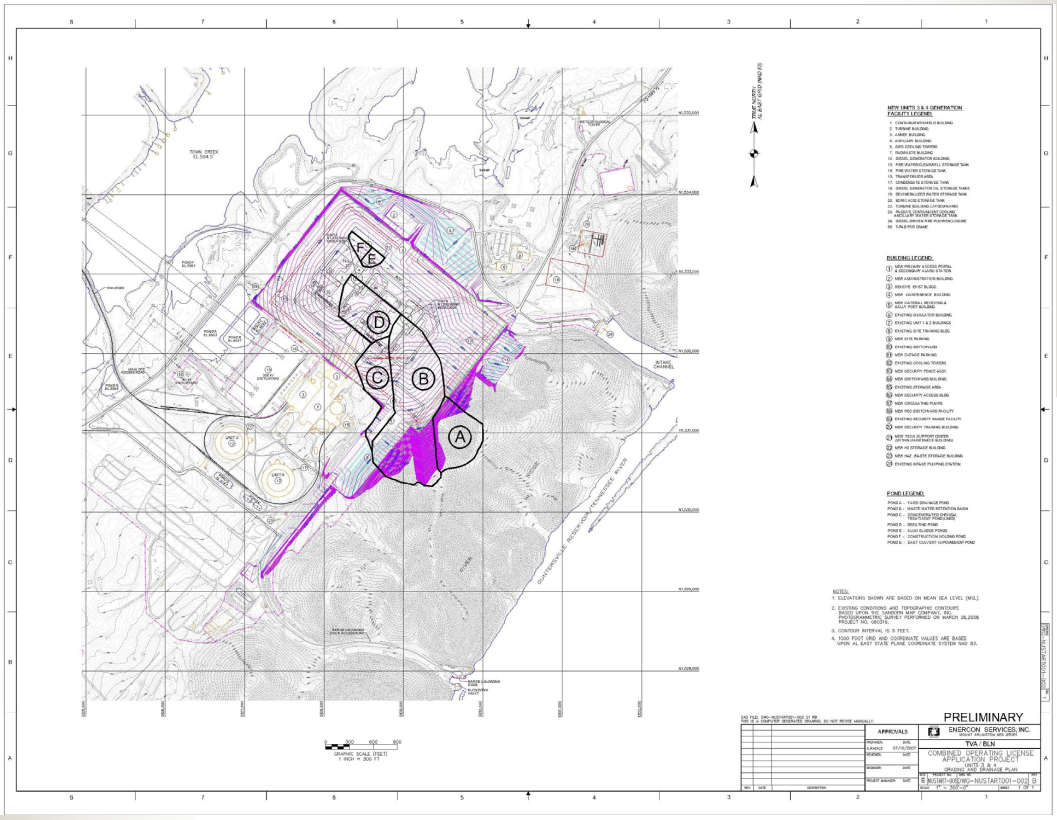
Grading and Drainage Plan



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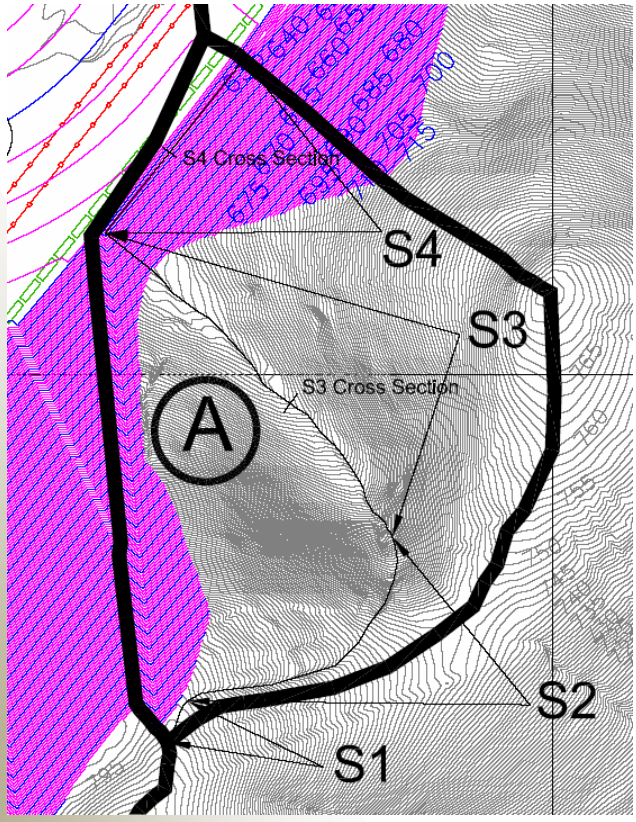
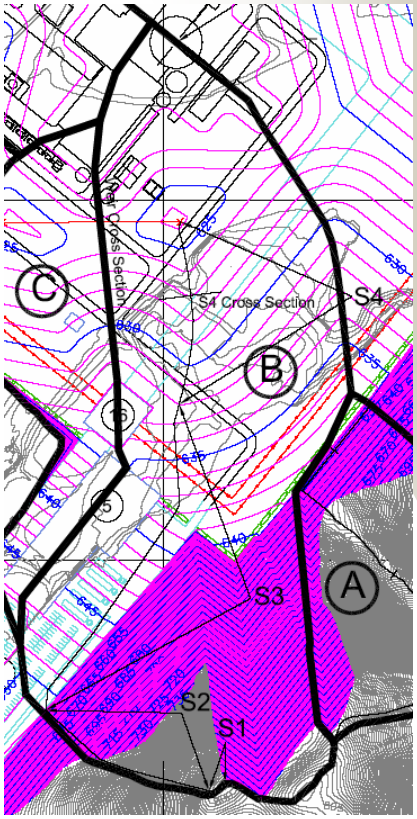
Grading and Drainage





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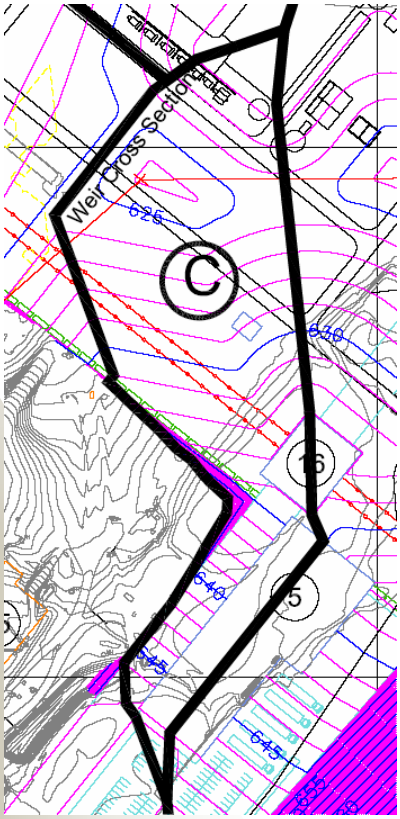
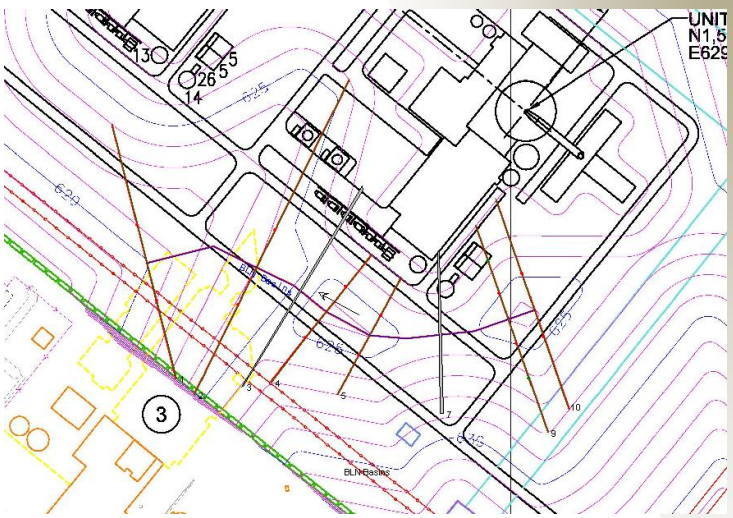
Grading and Drainage





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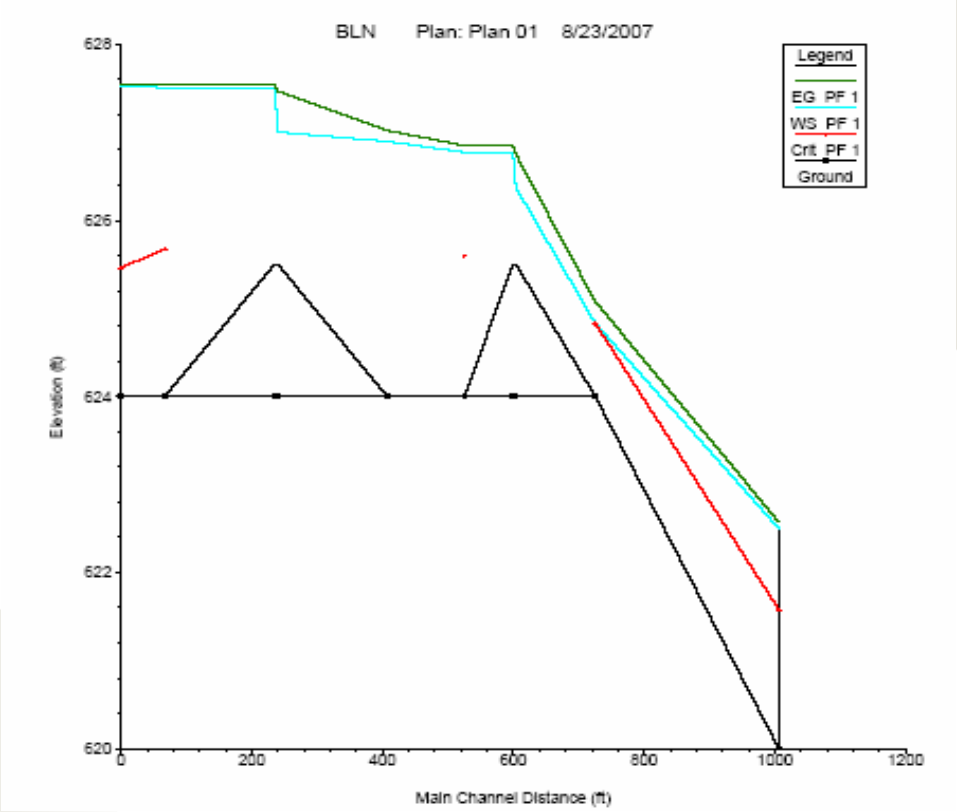

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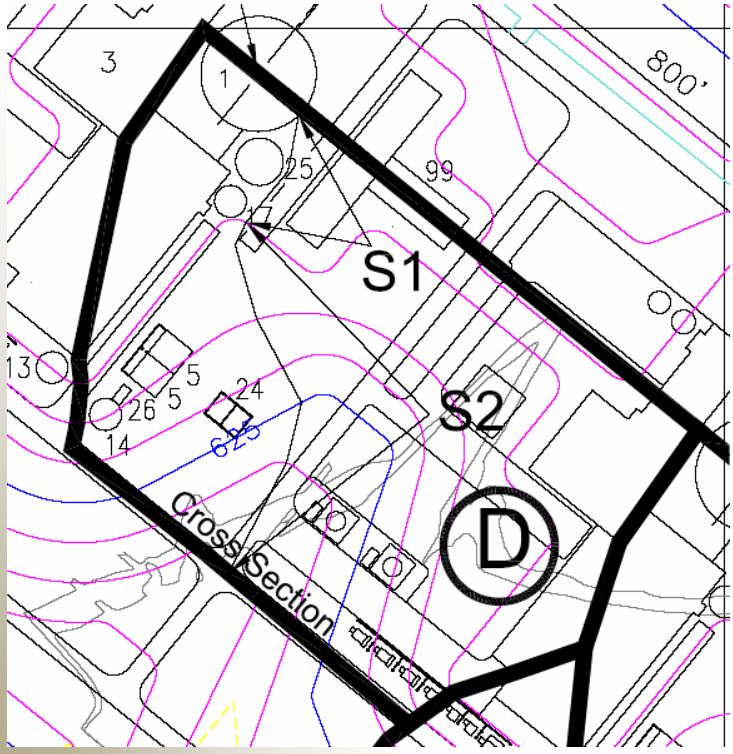

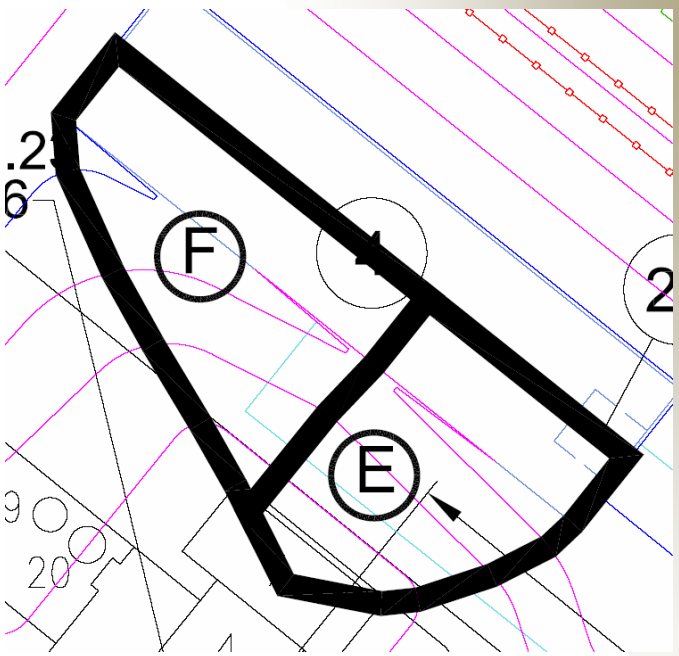

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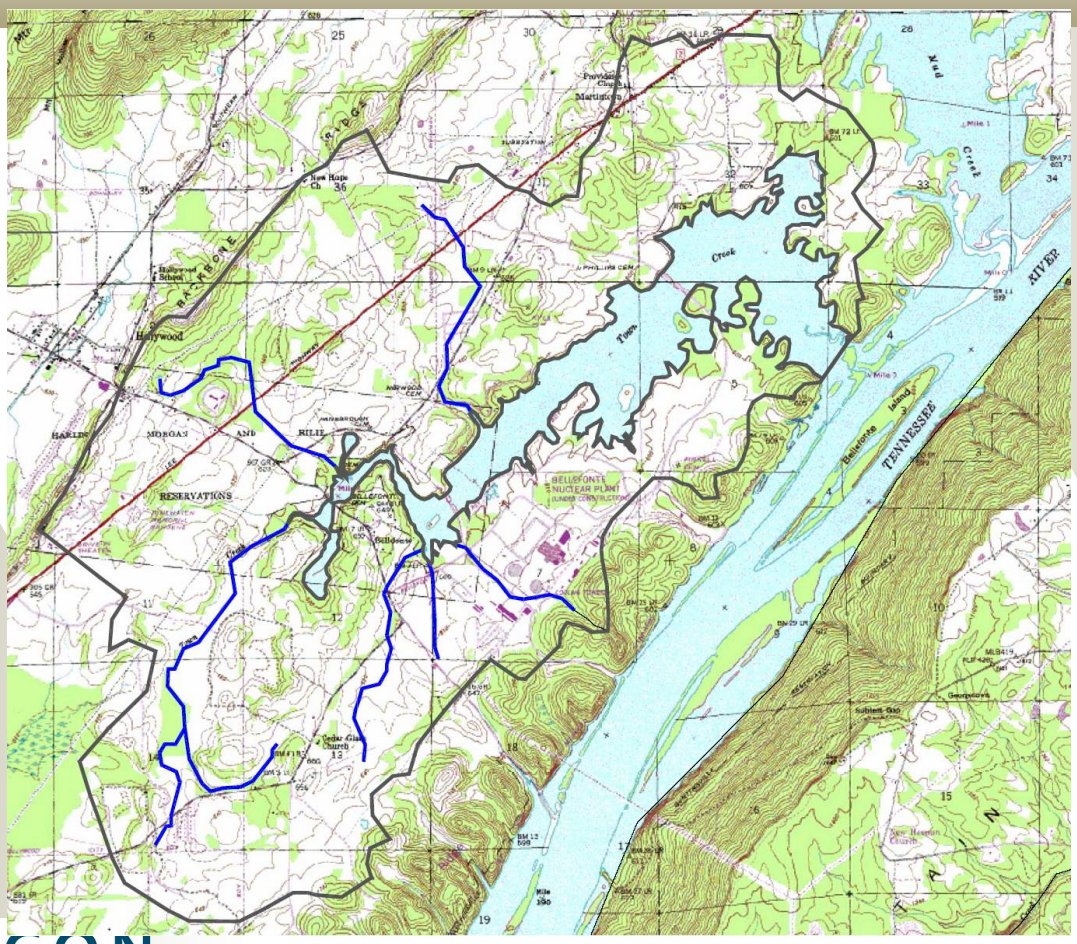
Grading and Drainage

- 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



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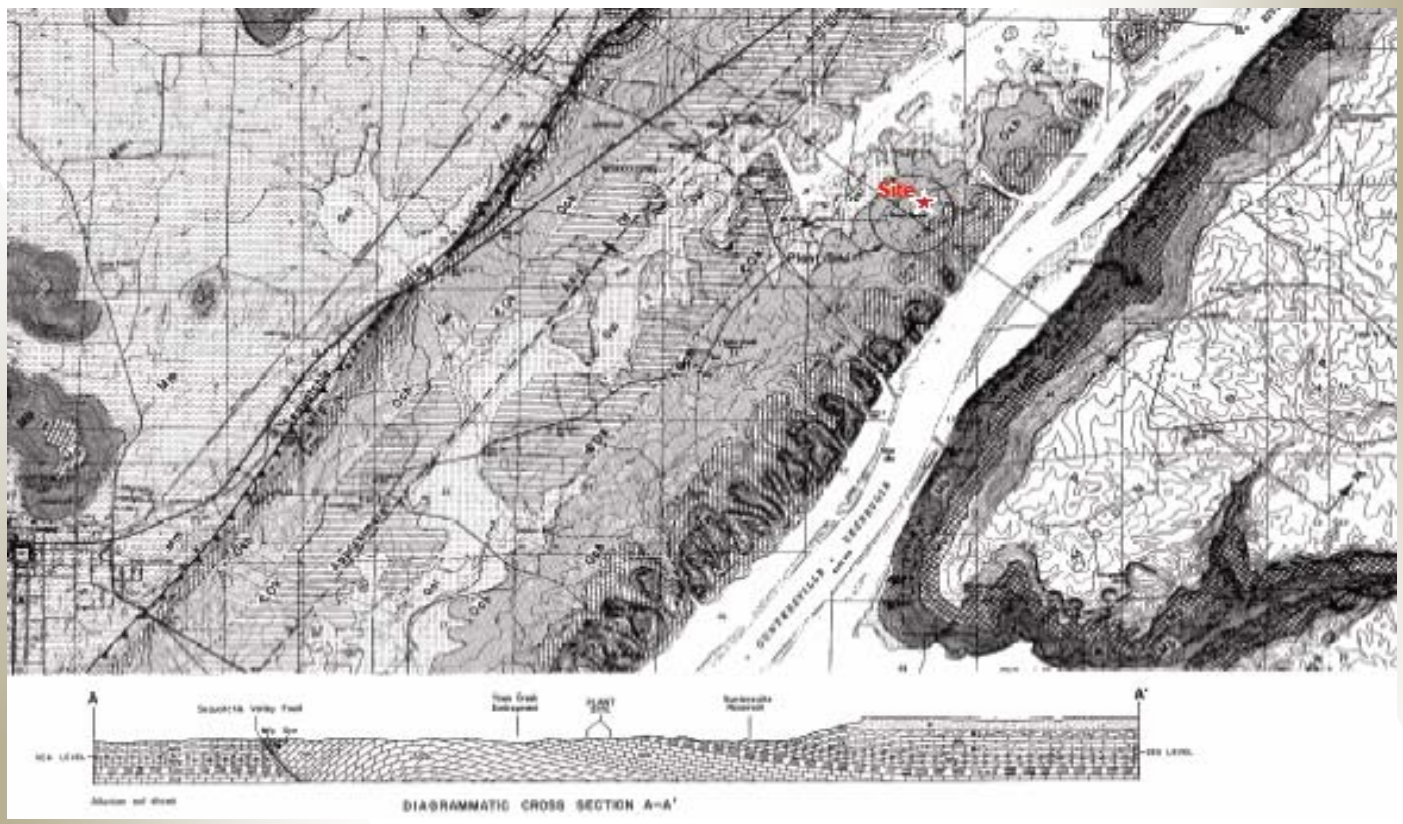
Channel Diversions



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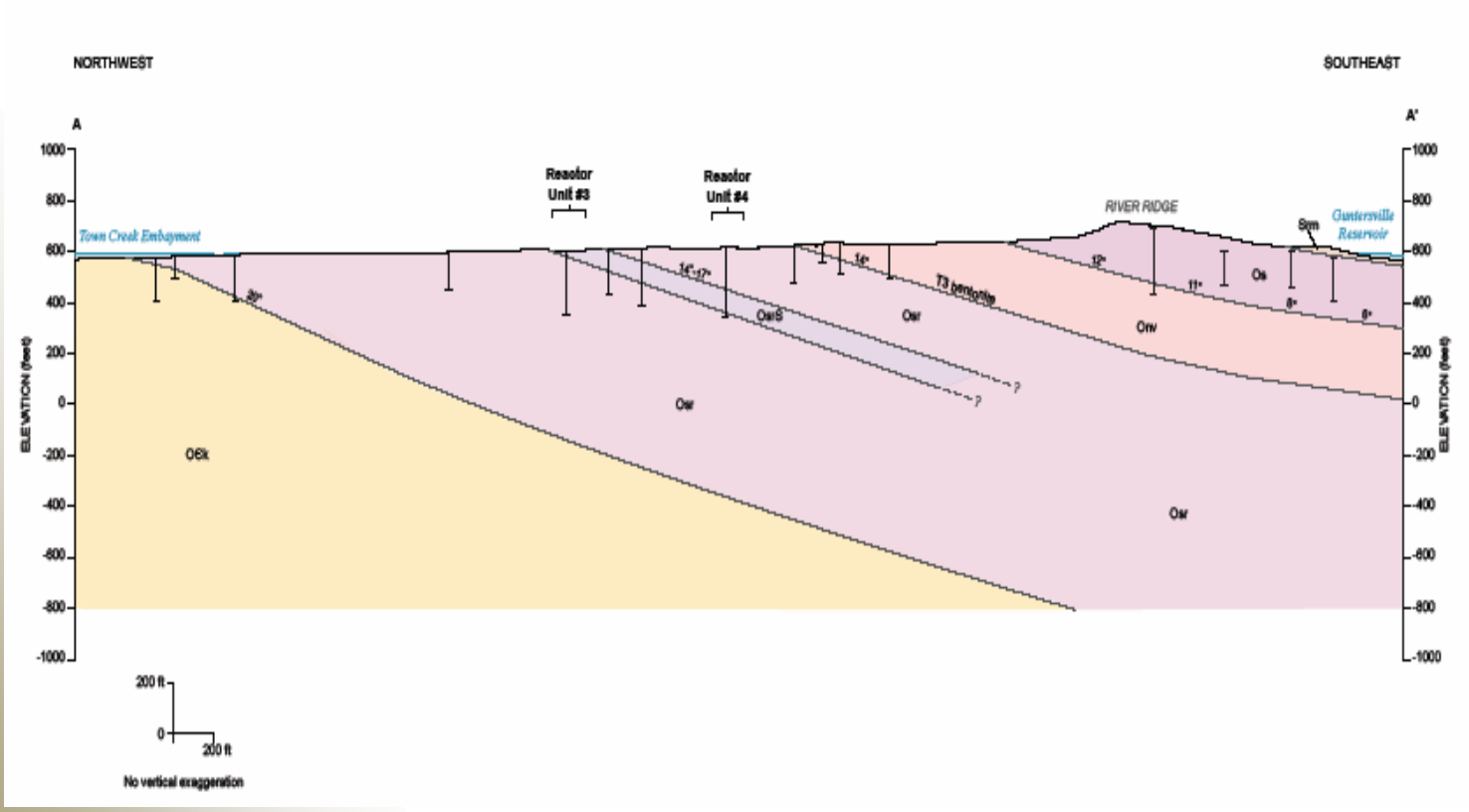
Channel Diversions



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Channel Diversions

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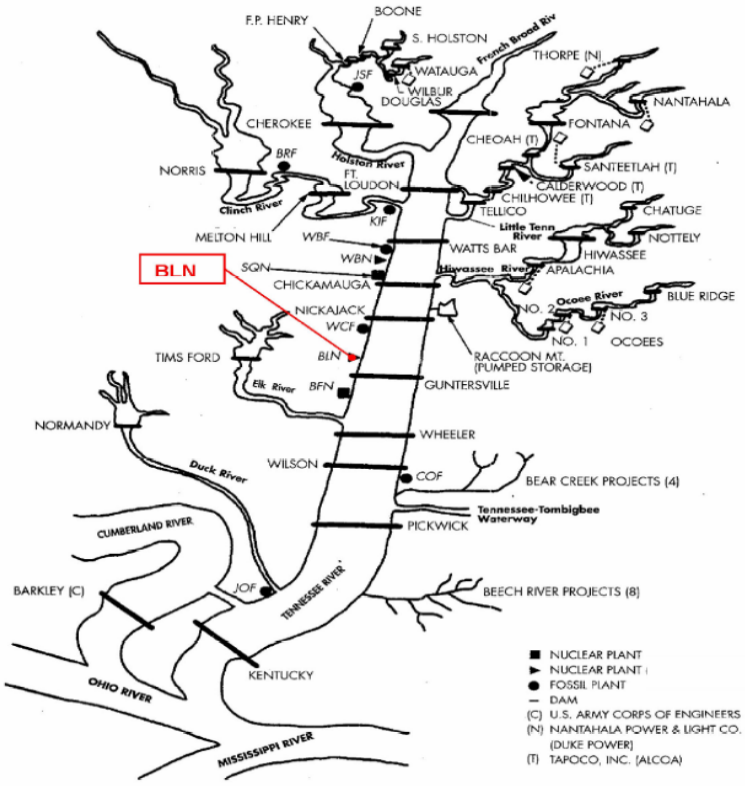
PMP/PMF/Dam Failure



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