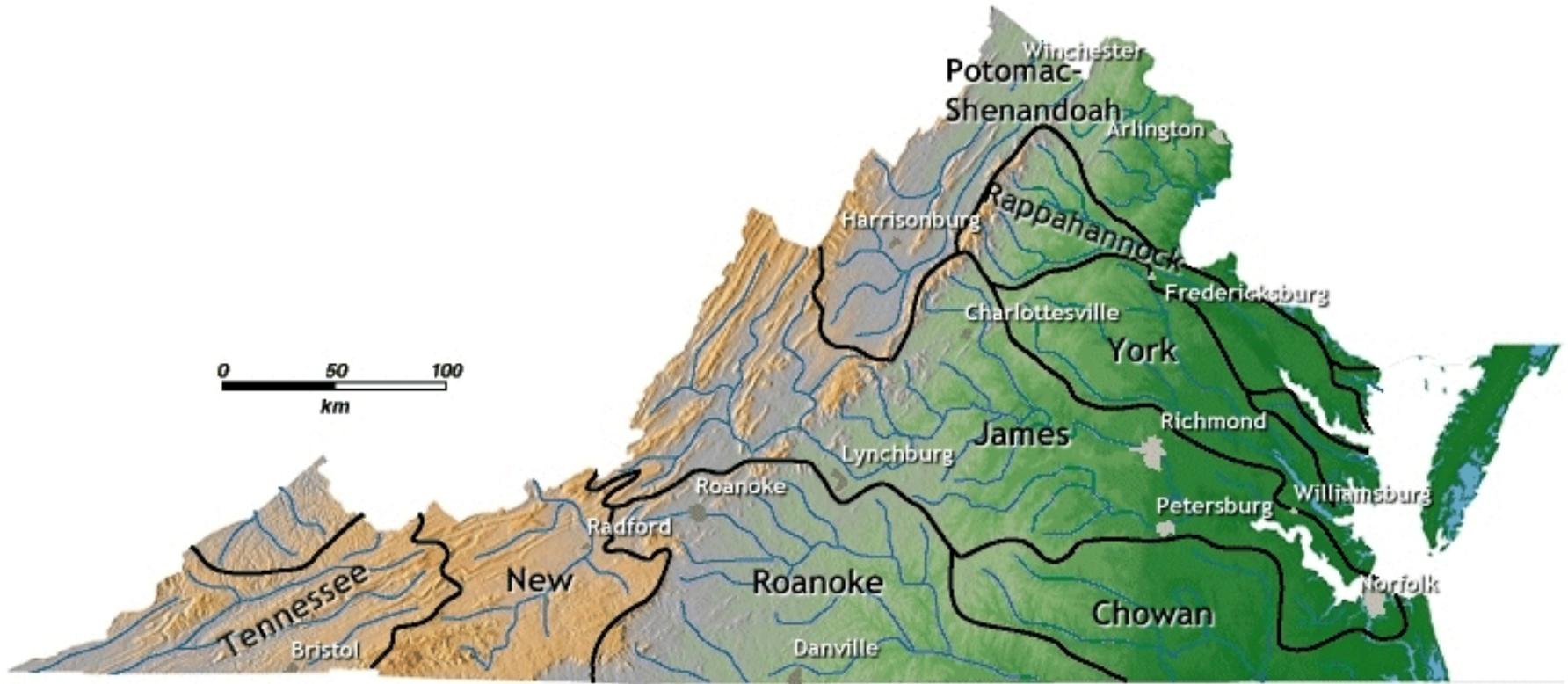
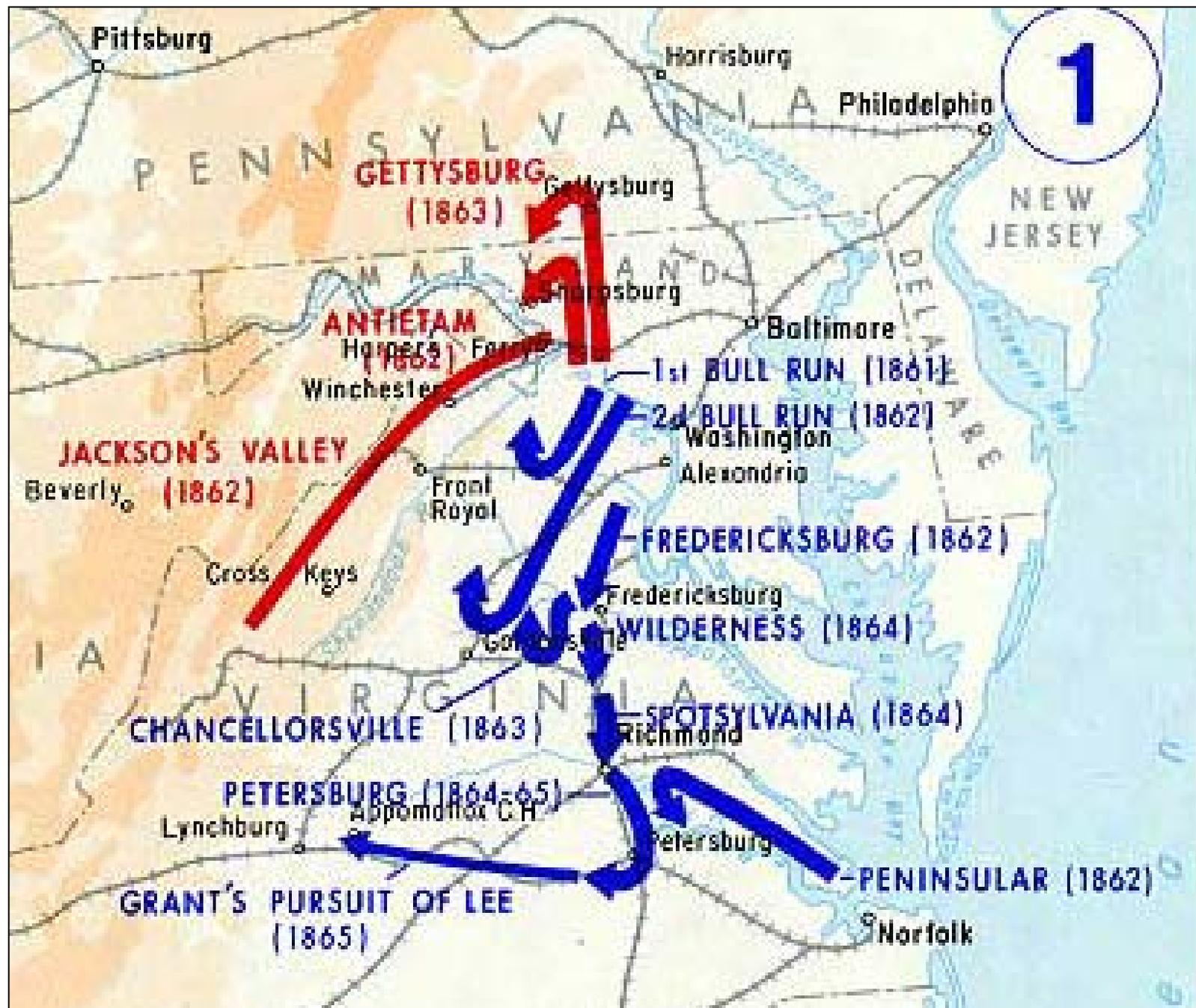


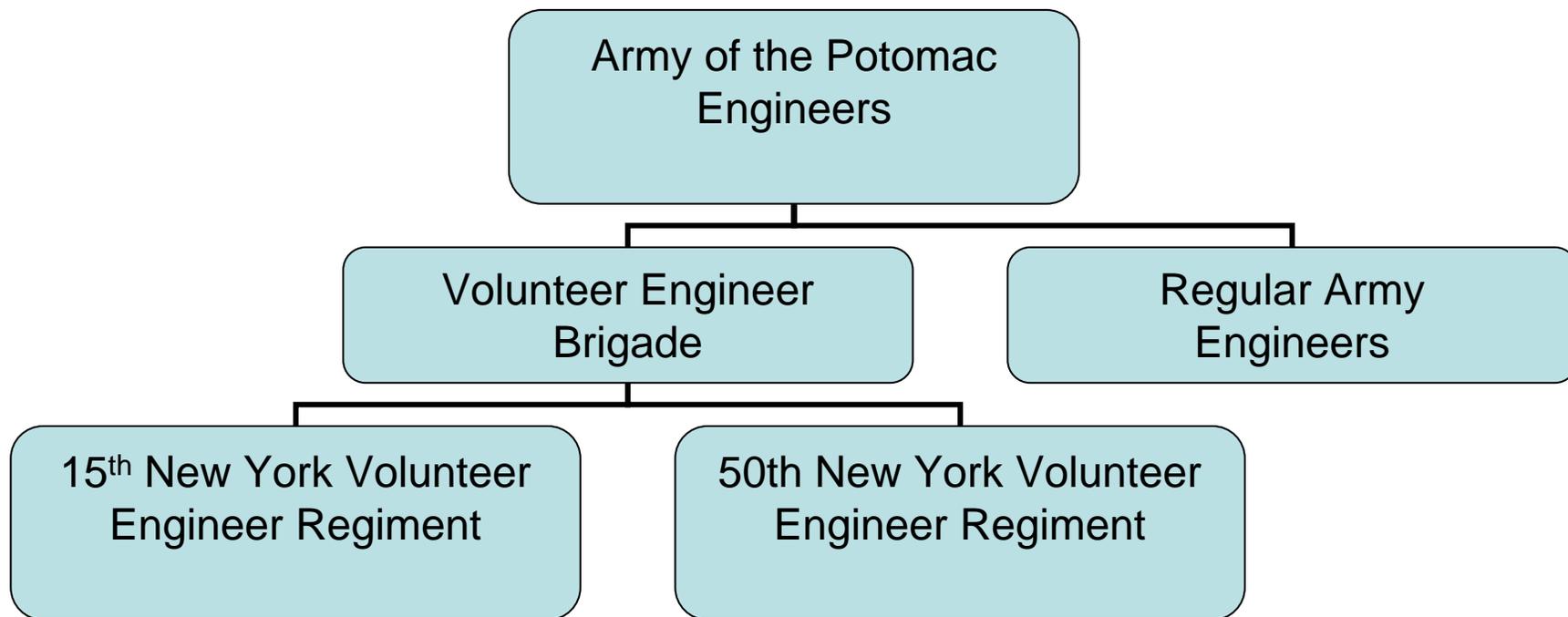
**A Brief History of the  
50<sup>th</sup> New York  
Volunteer  
Engineer Regiment**

# Drainage Basins in Virginia





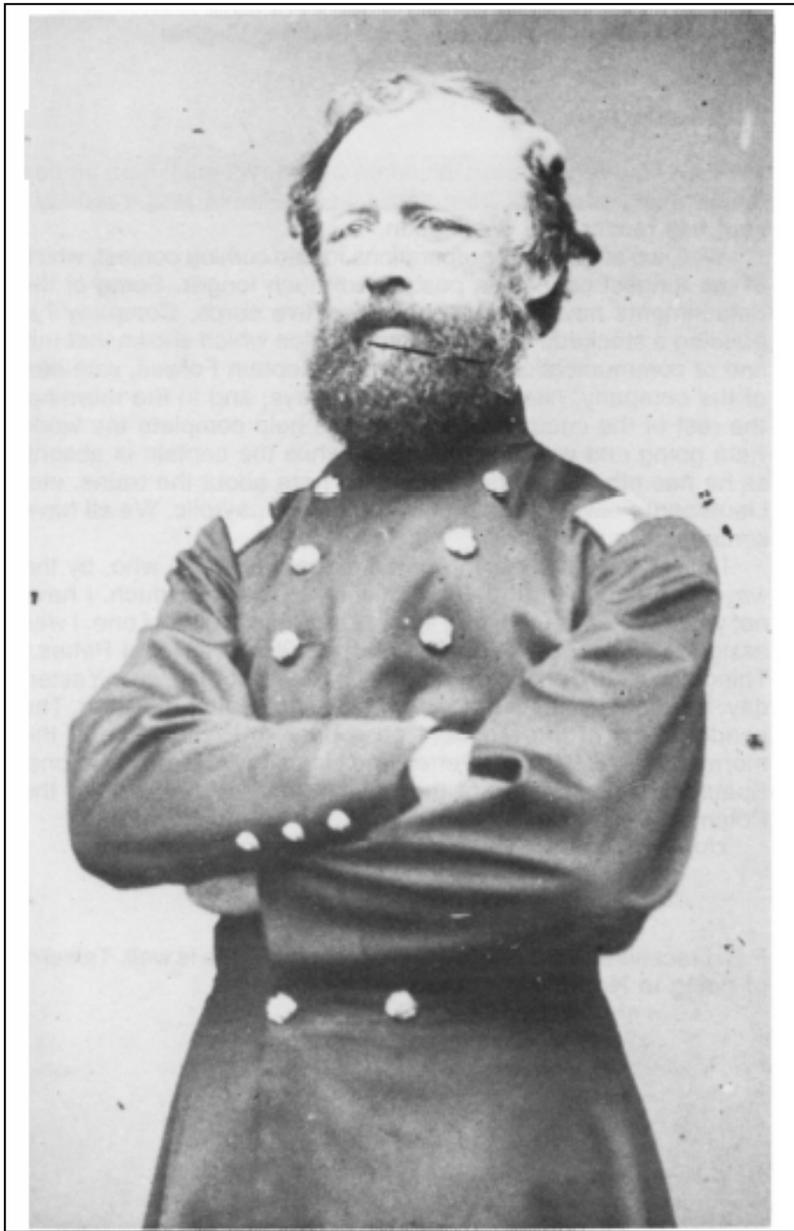
# Civil War Union Army Engineers Organization Chart





**Thomas James Owen wrote a book describing his unit's experiences during the Civil War**





**Colonel William H. Pettes**  
**Regimental Commander**



**General Barton S. Alexander**  
**Brigade Commander**



**Example of battery breastworks, fascines, and soil-filled gabions constructed in Peninsular Campaign near Yorktown, Virginia in March 1862**



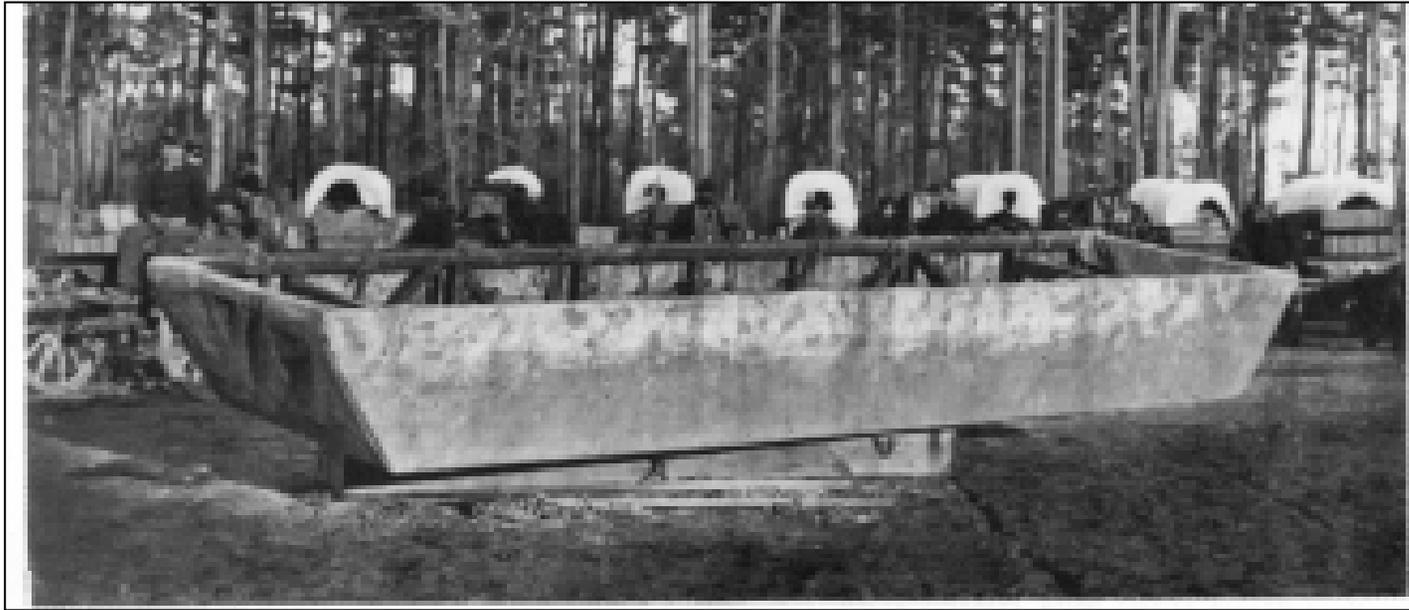
**Building a wooded “corduroy road” in the muddy realms of the James River Estuary during the Peninsular campaign in June 1862**



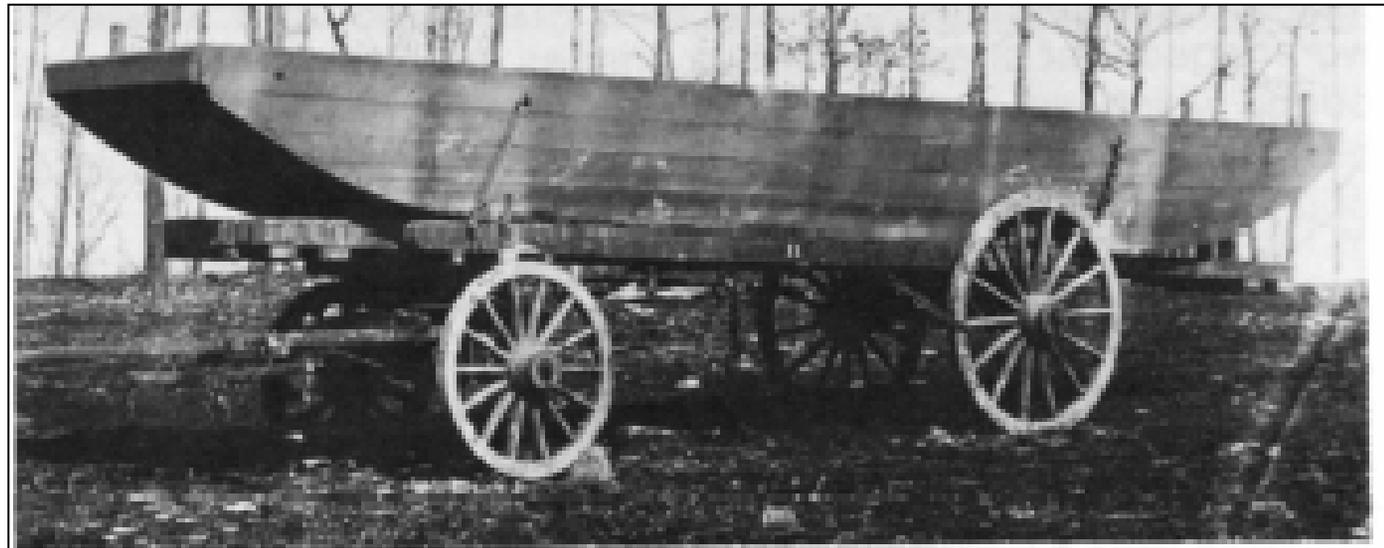
**Constructing the first pontoon bridge under enemy fire during the Battle of Fredericksburg, Virginia on 11 December 1862**



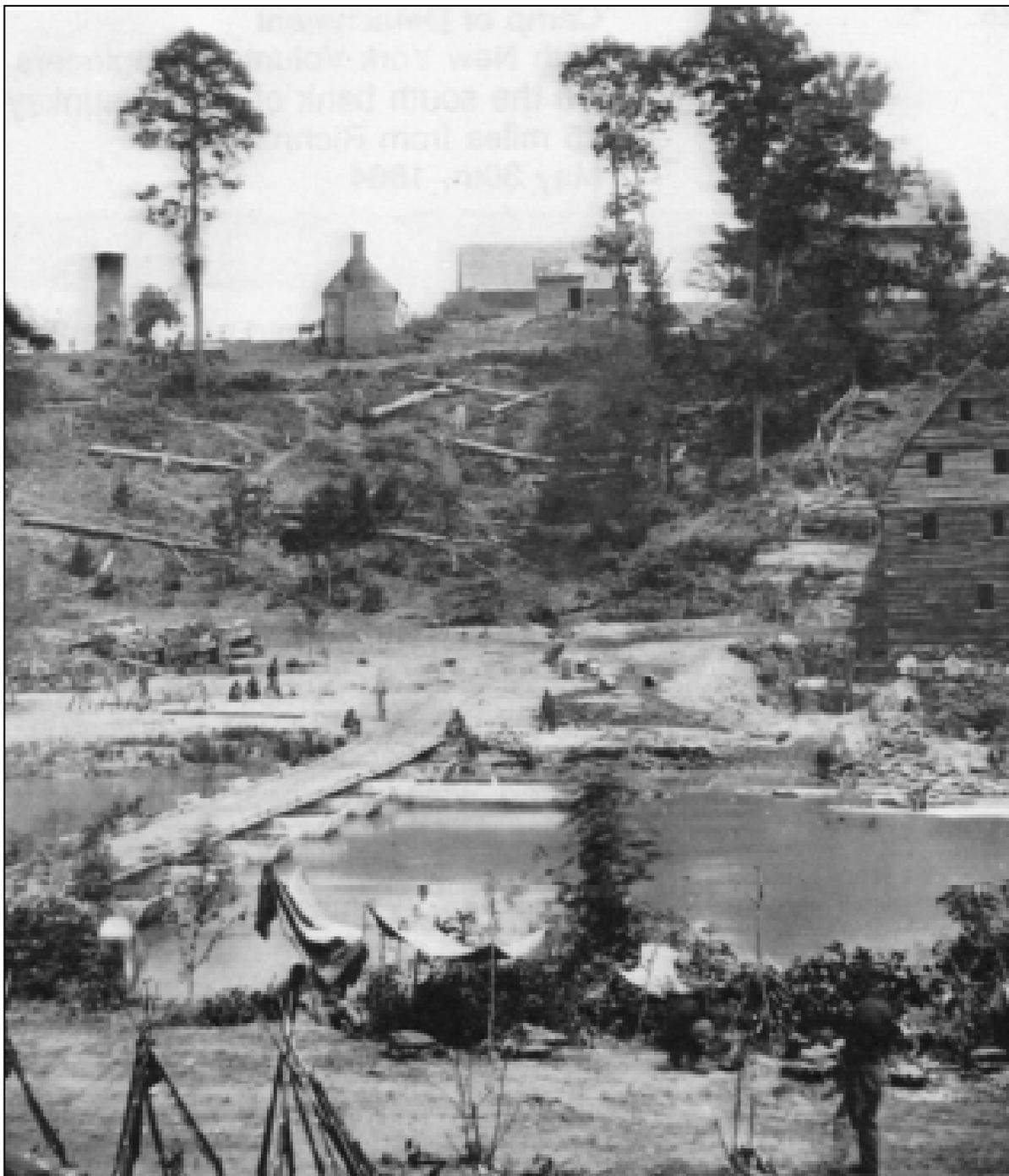
**Union engineers transporting bridge pontoons on specially built caissons; from Frank Leslie's *Illustrated News* on 3 January 1863**



**Canvas  
Pontoon**



**Wooden  
Pontoon**



**Union  
pontoon  
bridge  
across  
unnamed  
Virginia  
River  
1864**



**Longest Union pontoon bridge of the Civil War:  
2, 170 feet across the James River**



**Entrance to 50<sup>th</sup>  
New York  
Volunteer Engineer  
Regiment; winter 1864-65**



**Winter Camp  
March 1864**



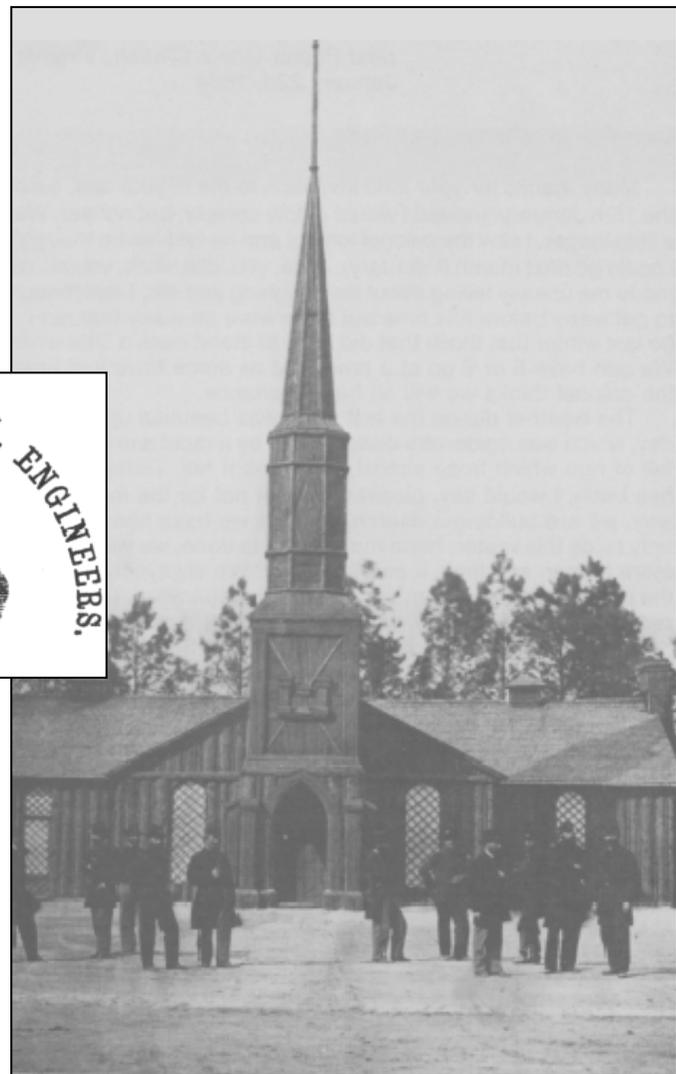
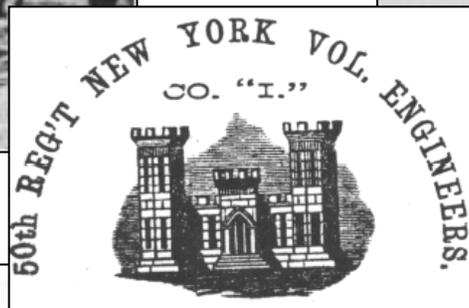
**Officer's Wintering Over Quarters  
March 1864**

**Rappahannock Station, Virginia  
March 1864**



**Base Chapel  
constructed by 50<sup>th</sup>  
New York Engineers  
at Poplar Grove,  
Virginia  
March 1865**





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- **War of the Rebellion, Official Records, U.S. War Department, Series 1, Volume 5, Serial No. 5.**
- **Supplement to the Official Records of the Union and Confederate Armies, 1997, Part II, Volumes 43, 44, Broadfoot Publishing Company, Wilmington, NC.**
- **[www.wm.edu/geology](http://www.wm.edu/geology)**