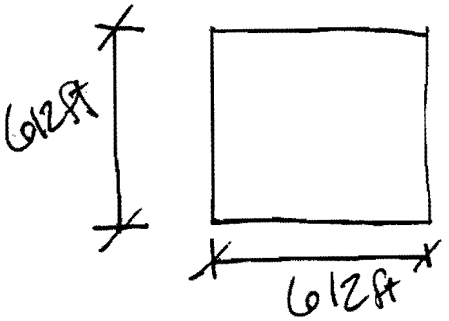
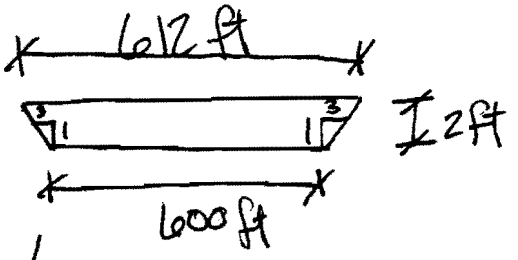
APG160045C

662,247 ft³ is needed for a 25yr, 24hr storm.

* 8.6 acre pond represented as a square:

8.6 acres. $\frac{43560 ft^2}{1 acre} = \underline{374616 ft^2}$ $\sqrt{374616 ft^2} = \underline{612.06 ft}$

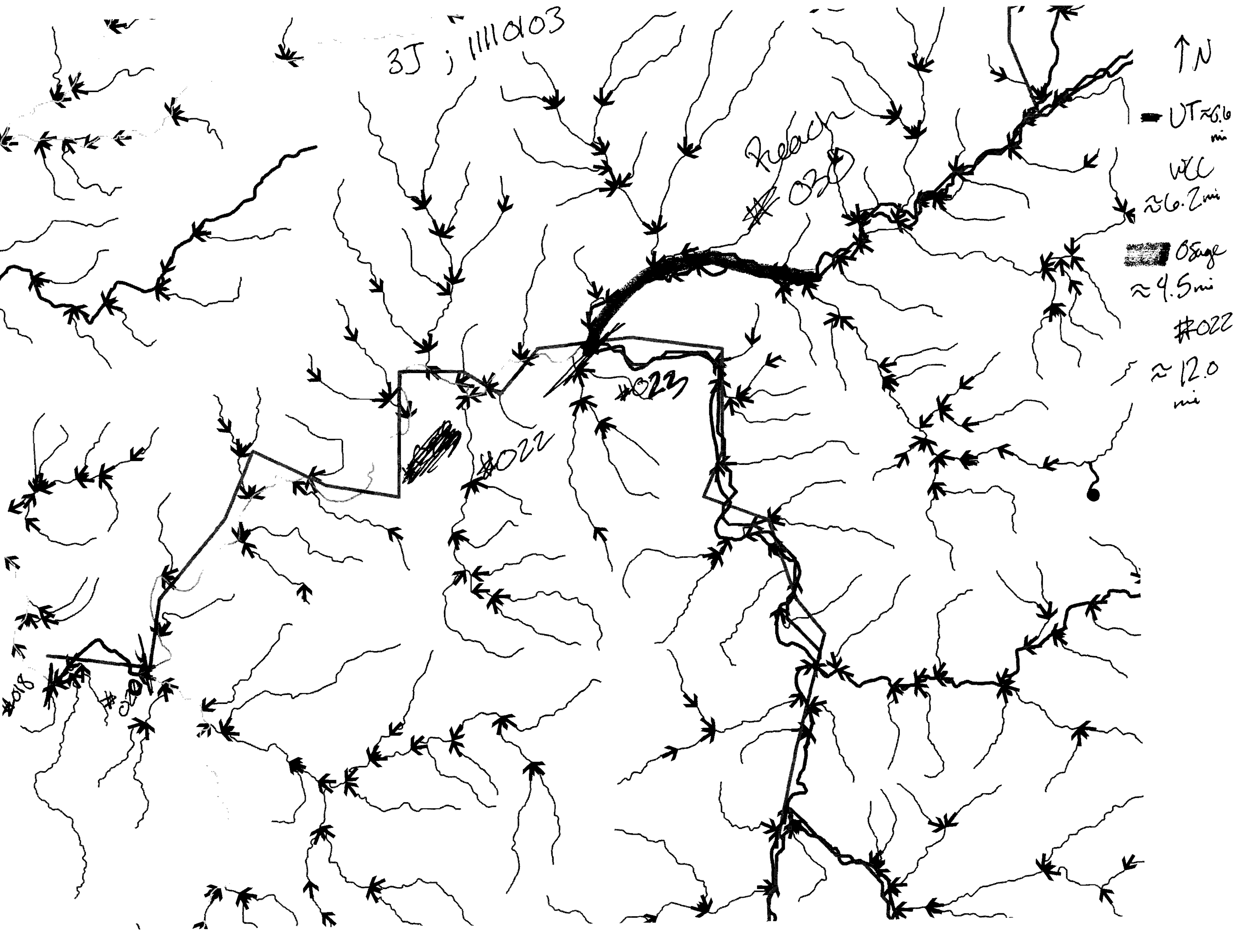




↳ $V = (600ft)^2 \cdot (2ft) + \frac{1}{2}(6)(2)(600ft)(4)$
$+ \frac{1}{3}(12ft)^2 \cdot (2ft)$
$= \underline{734,496 ft^3}$

As 734,496 ft³ > 662,247 ft³, it seems having 2ft of freeboard will be adequate room to handle a 25year, 24hr storm event.

2-26-14


3J ; 1111003
↑N
UT ≈ 6.6 mi
WCC ≈ 6.2 mi
Osage ≈ 4.5 mi
#022 ≈ 12.0 mi
Reach #020
#023
#022
#020
#018

[redacted] Osage Creek @ Reach #030

→ Pathogens & Total Phosphorus
- Category 5g
- Unknown Sources
- Low priority

Illinois River @ Reaches #018, #020, & #022

Illinois River @ Reach 020

→ Siltation
- Category 5d
- Surface Erosion is source
- Low priority