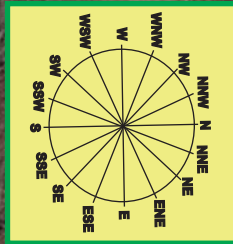
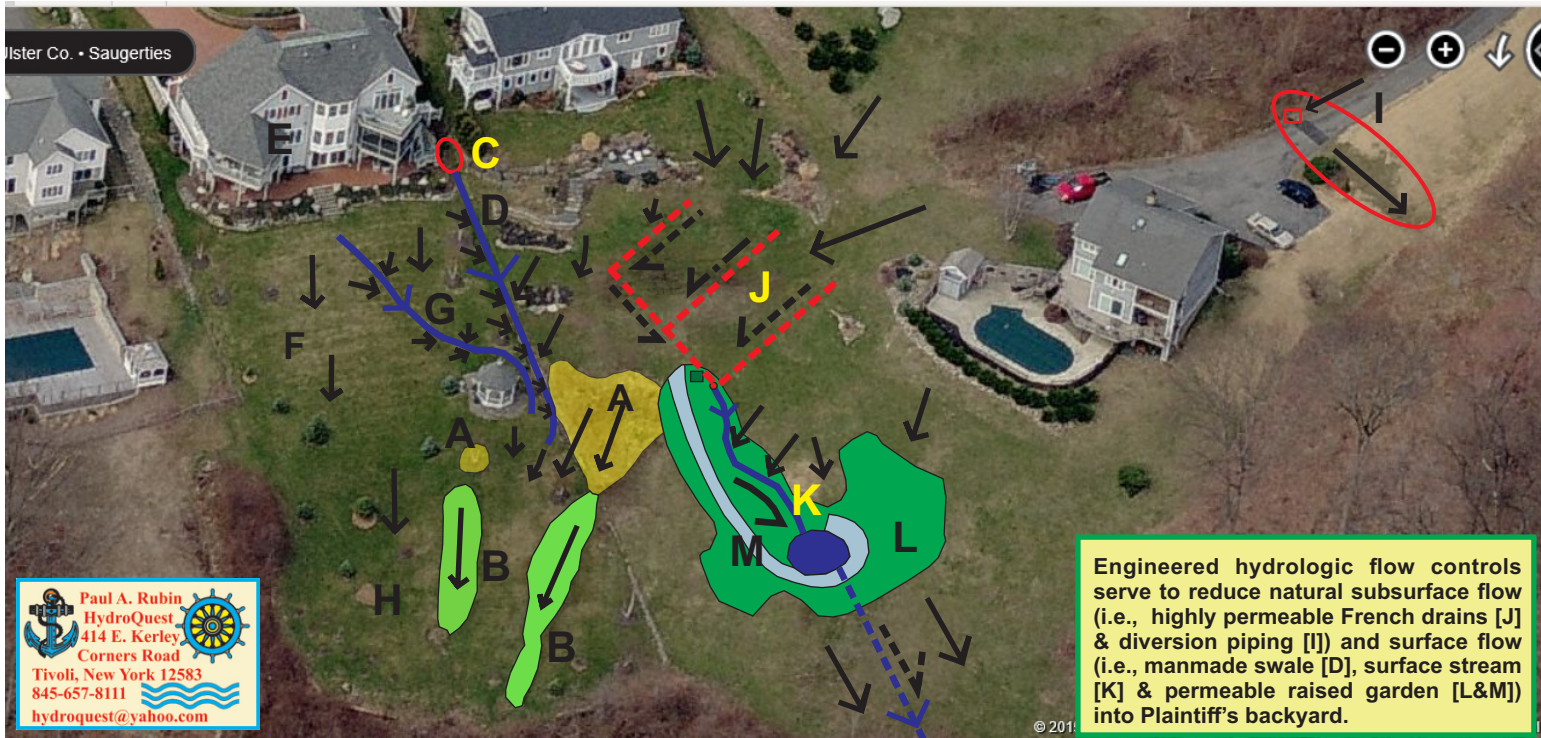


Surface & Subsurface Drainage Network



Bing photo: Approx. 2006-2007

- Timeline**
- A: Natural seep-spring areas: ~ 14,000 BP
 - B: Vegetation indicative of shallow groundwater flow: ~ 2005-2006
 - C: Plaintiff house foundation footing drain: ~ 2001
 - D: Plaintiff surface drainage swale from footing drain: ~ 2001
 - E: Plaintiff roof runoff to backyard: ~ 2001
 - F: Upper Plaintiff backyard filled & graded with downslope runoff: ~ 2001
 - G: Plaintiff cut walkway to gazebo; resulting surface drainage swale funnels backyard flow toward Defendant: ~ 2001
 - H: Lower Plaintiff backyard filled & graded with downslope runoff & infiltration: ~ 2006
 - I: Neighbor hillslope & driveway runoff capture & drainage: ~ April 2007
 - J: Defendant French drain network - groundwater infiltration, capture & diversion: ~ May 2007
 - K: French drain outflow to pond & downslope with capture of upslope runoff: Spg 2007
 - L: Defendant garden captures precipitation: 2009-2013
 - M: Permeable gravel walkway & steps: ~ 2010



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Engineered hydrologic flow controls serve to reduce natural subsurface flow (i.e., highly permeable French drains [J] & diversion piping [I]) and surface flow (i.e., manmade swale [D], surface stream [K] & permeable raised garden [L&M]) into Plaintiff's backyard.