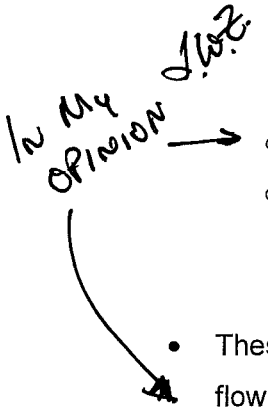
CORR-I

Jersey Village City Council Meeting August 21, 2017

Fred W. Ziehe

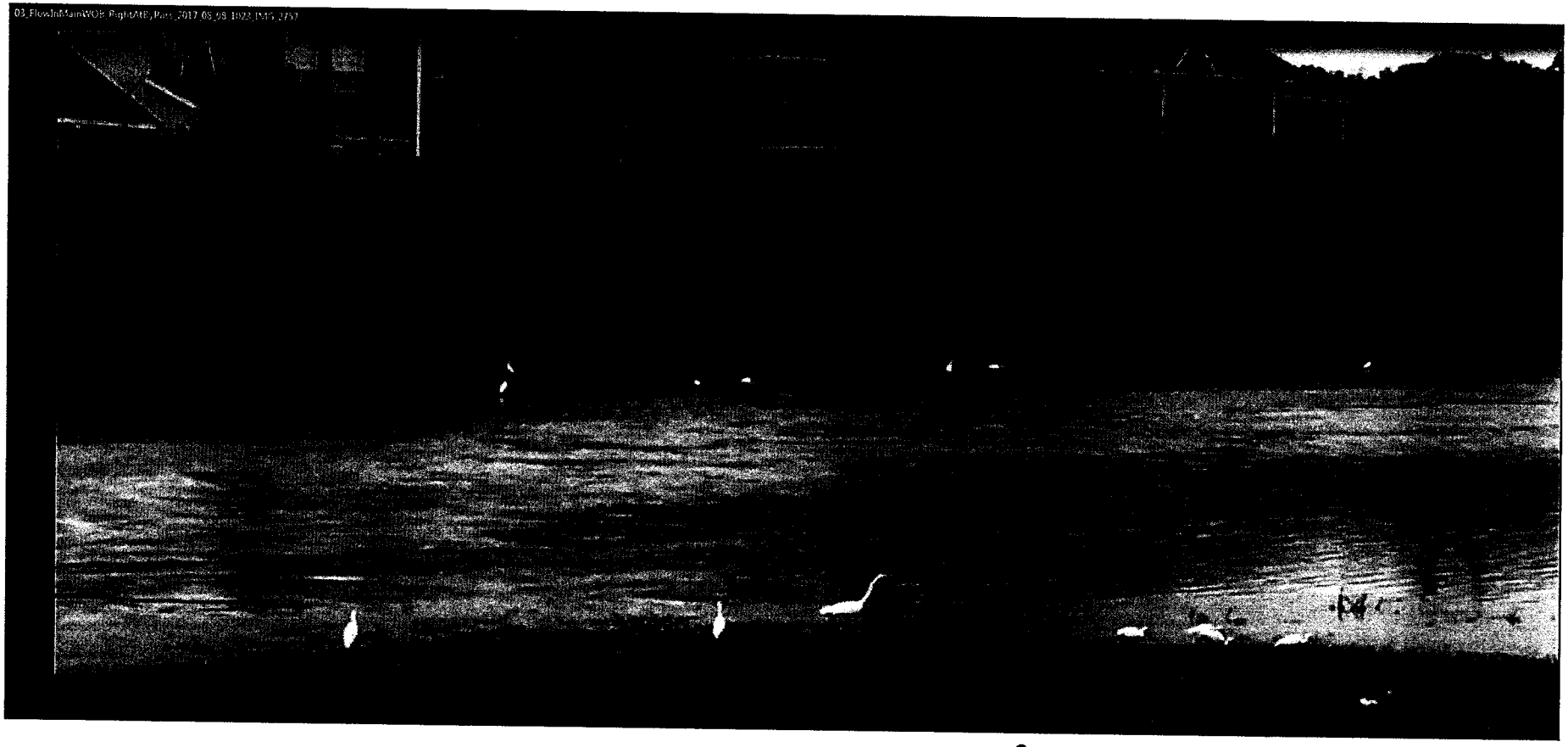
8409 Hawaii Ln

- As you will recall, last month I questioned the slope of the By-Pass
- See attached map of By-Pass
- Water has to rise at least 3 ft before it can even enter the By-Pass (See photo 01)
- After the rainstorm on August 8, 2017 I took videos of WOB at the X and By-Pass to capture how it actually performs.
    - See flow below the X (See video 02)
    - See flow in Main Channel near the By-Pass (Video 03) and in the upstream end of the By-Pass (Video 04)
    - See "flow" or lack thereof in the By-Pass at Senate, partway down the By-Pass (Video 05)
- This lack of flow in the By-Pass, even with these water levels is **NOT** what I expected from a By-Pass.
    - Dannenbaum determined that 48% of the flow down WOB was diverted to the By-Pass.
        - I disagree with Dannenbaum's assessment. It doesn't seem logical.
    - HCFCD says the By-Pass is "…only designed to take about 1/3 of the flow. It is not a full bypass or divergence."
    - They go on to say "Another way to look at the bypass is similar to an off line detention basin."
        - They are saying it's designed to let water continue flowing down the Main WOB channel, until the water gets to a certain level and THEN starts flowing down the By-Pass.
        - My contention is that it would be better if the By-Pass was taking water initially……. at the same time it's flowing in the Main Channel.
    - As a result, the By-Pass does not provide JV any benefit at the start of a storm
    - I question the 30% determination by HCFCD, since the By-Pass does not kick-in until later in the rainstorm.
        - My question would be……. **30% of WHAT? 30% of WHEN?**
- These videos confirm what we have witnessed. The design is intentionally causing the slow flow. We will continue looking at the slope as well.



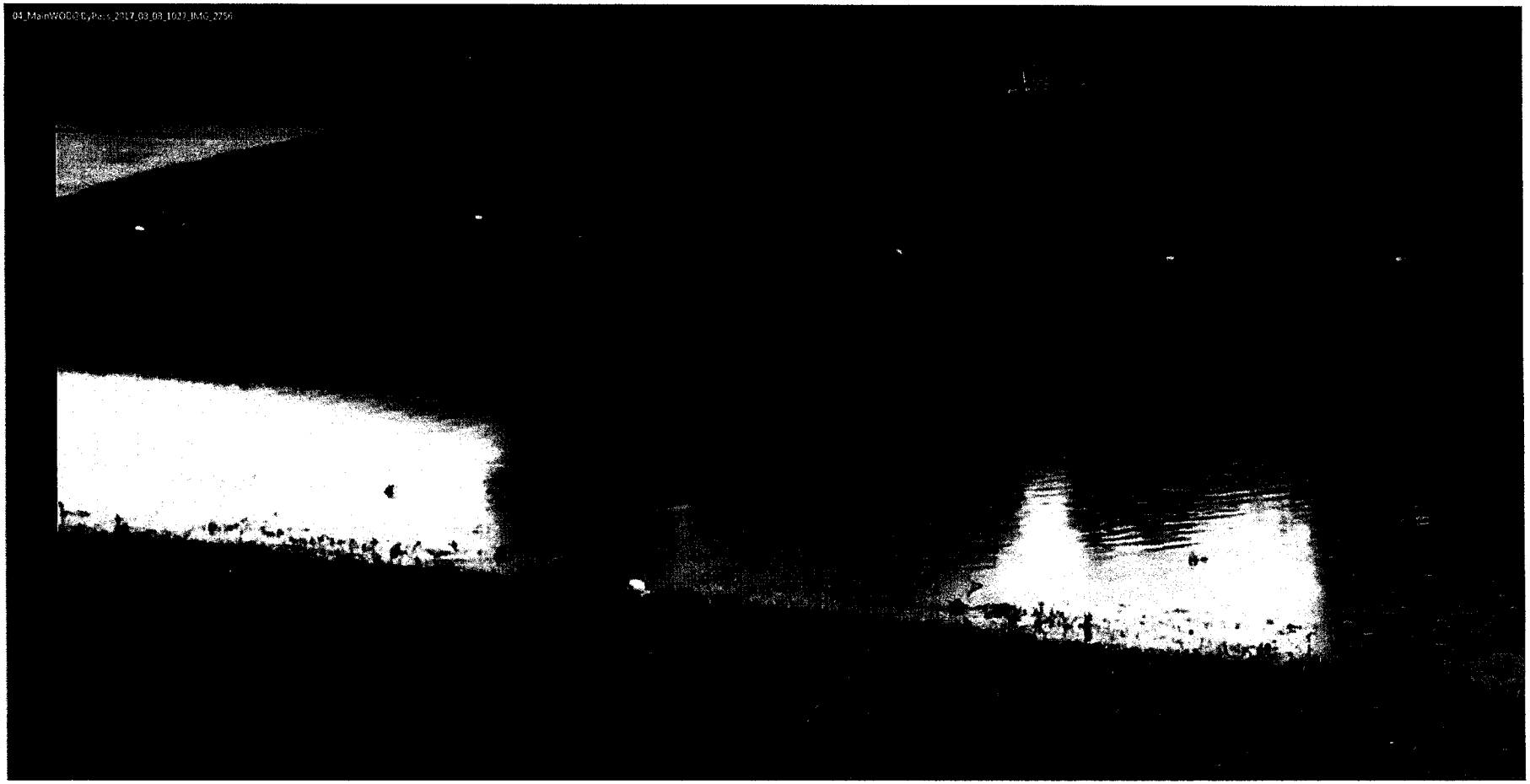
ENTRANCE TO BYPASS
ON DRY DAY

PHOTO 01



MAIN CHANNEL NEAR BY PASS

VIDEO 03



UPSTREAM END OF BY-PASS

VIDEO 04

By-Pass At Senate Ave

Video 05