




AQUA NC - UPCHURCH PLACE PROJECT BACKGROUND

Customers	64 connections
Flow Rate	2 Wells, 89 gpm Total
Fe, Raw	1.43 mg/L
Mn, Raw	0.23 mg/L
Site Challenges	Sequestering not working – Customer Complaints! Limited storage volume for BW Supply No sewer connection for BW Waste



The AdEdge APU26 Treatment System with H2Zero Backwash Recycle and Sludge Management was the perfect solution to the challenges faced by Upchurch Place.

The image shows six test tubes in a row, each containing a sample of backwash water at different stages of a 10-minute backwash event. The first tube, labeled '2 MIN UPFLOW', shows a dark brown liquid at the bottom and a lighter, turbid liquid on top. The second tube, labeled '4 MIN UPFLOW', shows a more uniform yellowish-turbid liquid. The third tube, labeled '6 MIN UPFLOW', shows a lighter yellow liquid. The fourth tube, labeled '8 MIN UPFLOW', shows a very light, almost clear liquid. The fifth tube, labeled 'START FAST RINSE', shows a clear liquid. The sixth tube, labeled '2 MIN FAST RINSE', shows a clear liquid. The tubes are labeled with their respective times in blue boxes.

2 MIN UPFLOW

4 MIN UPFLOW

6 MIN UPFLOW

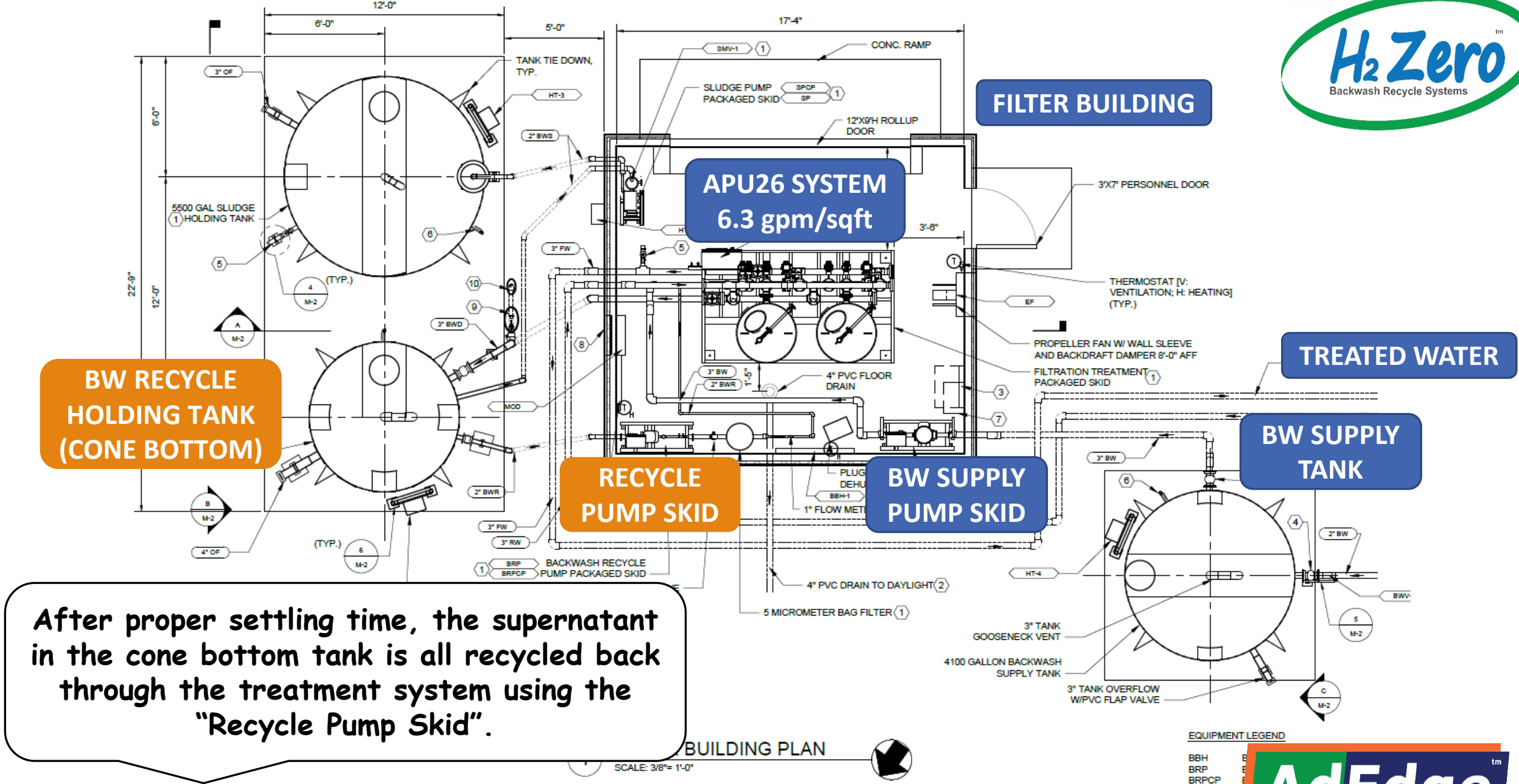
8 MIN UPFLOW

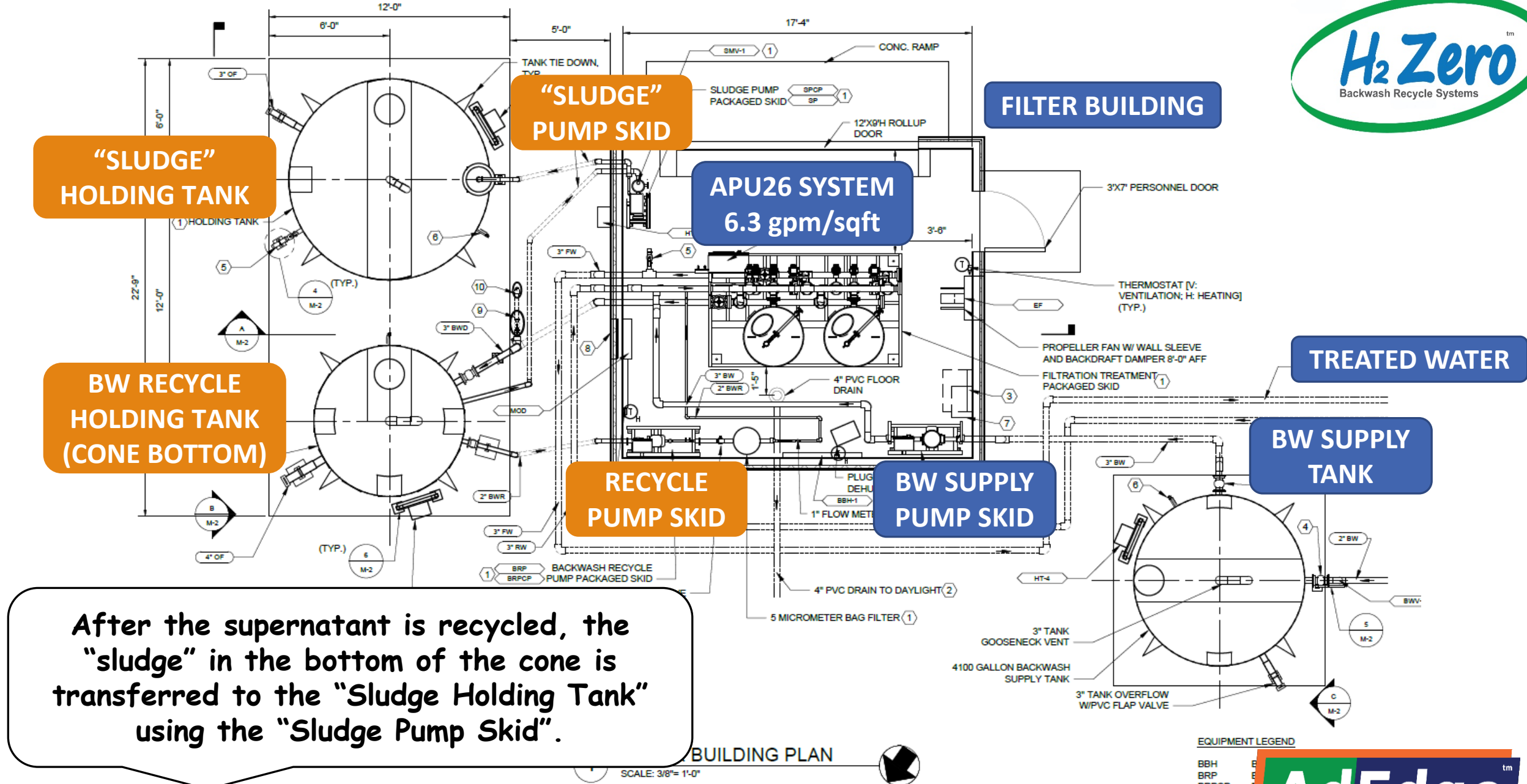
START
FAST RINSE

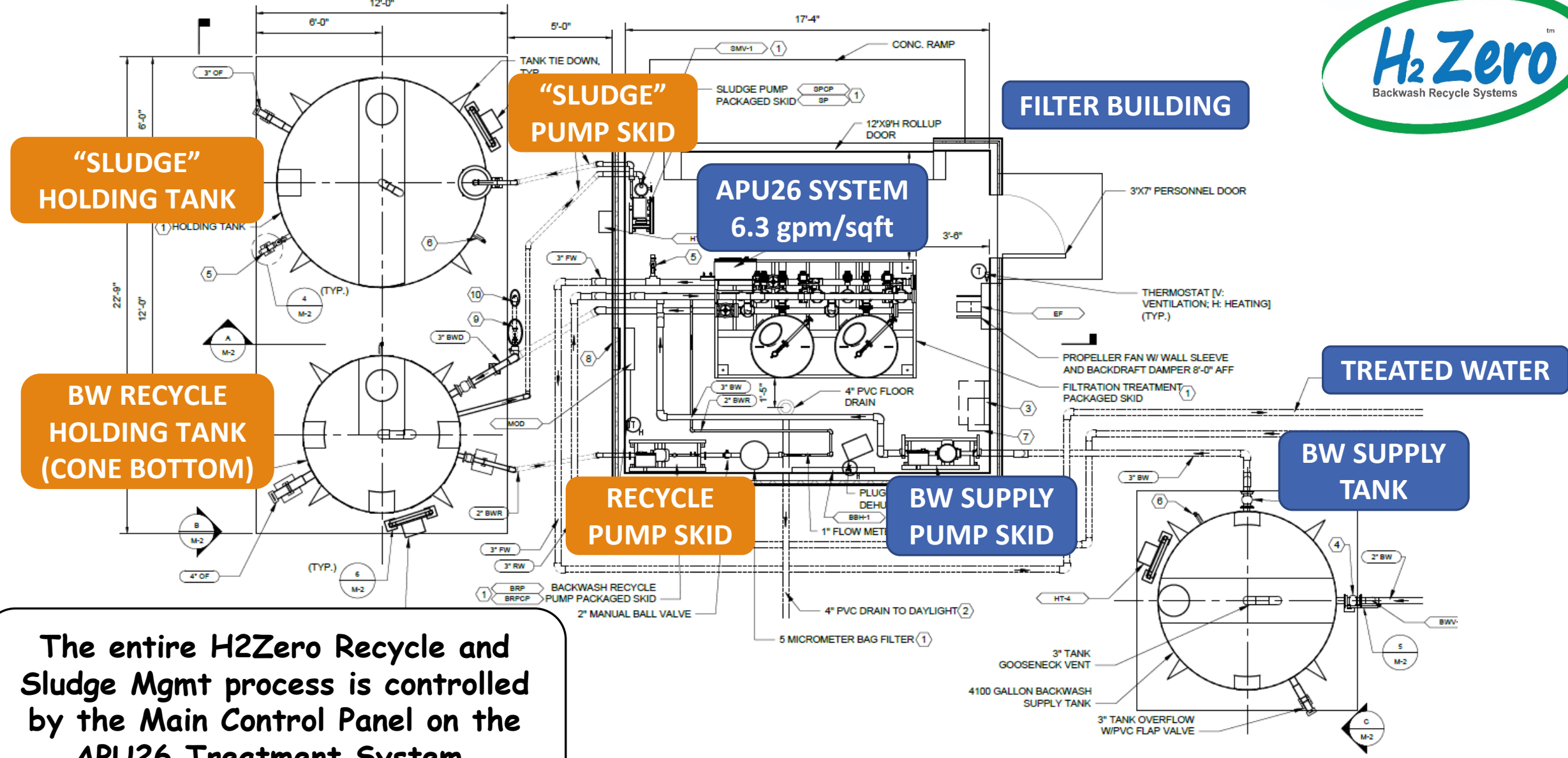
2 MIN
FAST RINSE

This is what the backwash water looks like through the 10 min backwash event. Our H2Zero system will capture this water and recycle 99.7% of it!









The entire H2Zero Recycle and Sludge Mgmt process is controlled by the Main Control Panel on the APU26 Treatment System.

1 FILTER BUILDING PLAN
SCALE: 3/8" = 1'-0"

EQUIPMENT LEGEND

- BBH
- BRP
- BRPCP
- EF

**BW RECYCLE
HOLDING TANK
(CONE BOTTOM)**

**TREATMENT
BUILDING**

**99.7% Recovery
Sludge Haul every
3 months**

**Here is what the system looks like
installed. A perfect solution for
any sites that have no place to
send backwash waste.**

**“SLUDGE”
HOLDING TANK**



COMMUNITY CELEBRATION

"My washing machine isn't stained and doesn't stink anymore"

“We may like our hot dogs a little black, but we are glad to not have our water that way anymore”

“My daughter loves take a clean bath now”



**With the water quality challenges solved
and system waste recycled and
managed, the Upchurch Place community
got together to celebrate!**



AdEdgetm
water technologies