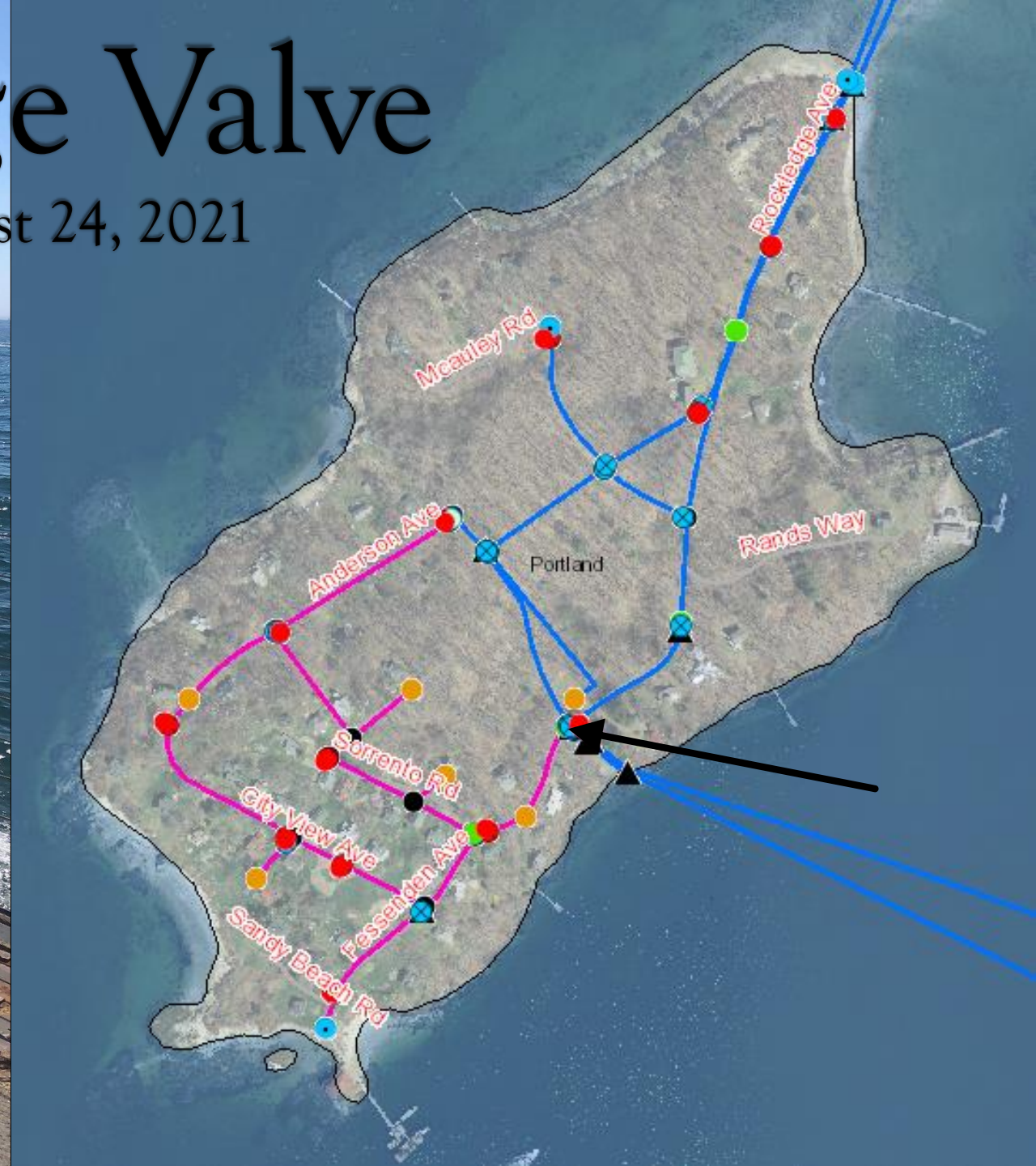


16" Interchange Valve

Little Diamond Island - August 24, 2021



Excavated Site Before Trench Box Installed

(44" between parallel mains - Existing CL2 tap centered between tees



Removing the Existing Corporation - (CL2 Tap)



- ◆ Starting to remove the existing corporation, keeping down pressure on the shaft of the tapping machine (unable to utilize yolk)



- ◆ Corporation backed out 3 turns, starting to get water to fill the tapping machine



Removing the Existing Corporation (Cont.)



◇ Corporation backed out 4 turns, getting significantly more water out of the relief valve on the tap machine.



◇ Corporation removed, system pressure extended shaft of tap machine fully up. flapper closed on tap machine and pressure relieved.



Corporation Removed – CC Plug Installed



- ◆ Corporation removed and 1" brass CC Plug tightened into the water main 5 turns.



- ◆ Using a grinder to cut off the top of the brass plug to ensure the cutting head would be able to travel the full distance to complete the tap for the insertion valve.



Cleaning the Ductile Iron & Install Valve Body



- ◇ Using 5% CL2/Water solution to clean the exterior of the 16" ductile water main



- ◇ SS Valve body installed (PowerSeal), finishing torquing the bolts on the back side (1-1/16" nuts torqued to 100 ft./lbs.). filling the sleeve with water for hydrostatic test.



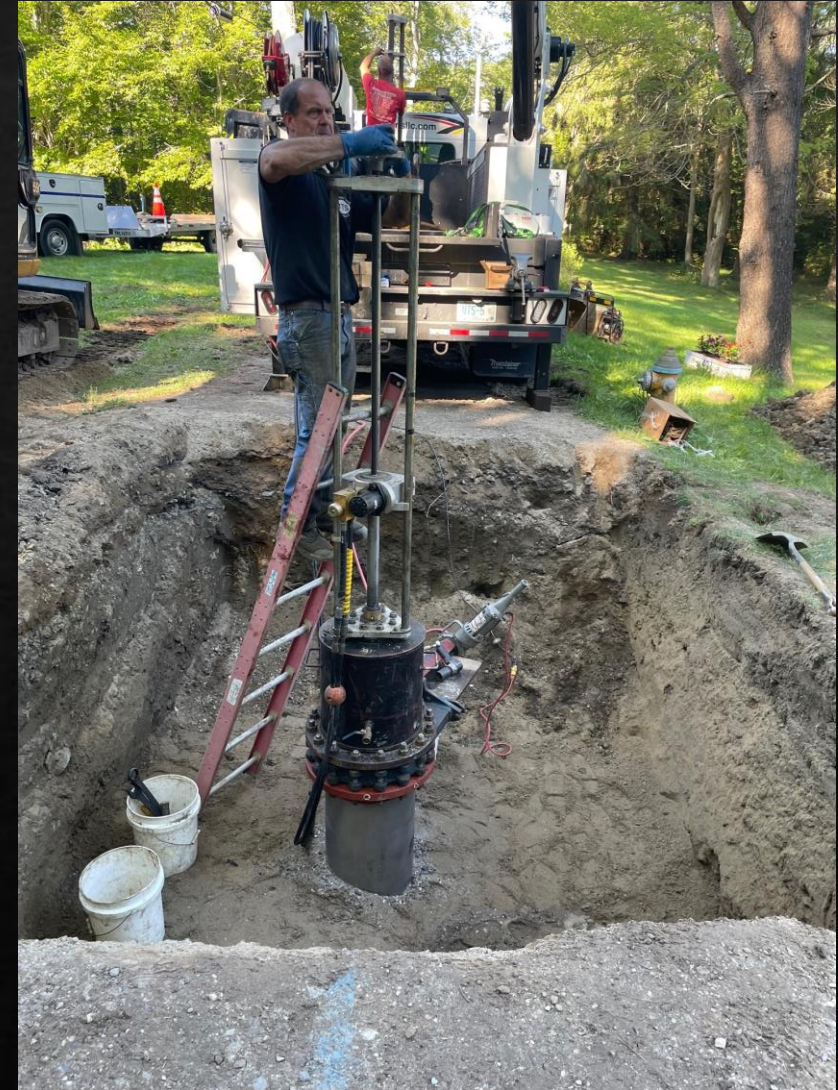
Finishing Hydrostatic Test & Tap Equipment



- ◆ Just finishing up the hydrostatic test (sleeve tested @ 130 - 145psi to ensure installation before tap)



- ◆ Tapping equipment mounted on top of the PowerSeal valve body. Equipment runs with hydraulics from PTO on UTS's service truck.



16" Coupon with Brass Plug Removed



16" Valve and Operating Nut Installed

- ◆ Valve installed and set screws holding it in



- ◆ Finished product with top plate and operating nut installed prior to backfilling



Backfilling & Compacting



Road Finish Graded - Loamed, Seeded & Hayed

