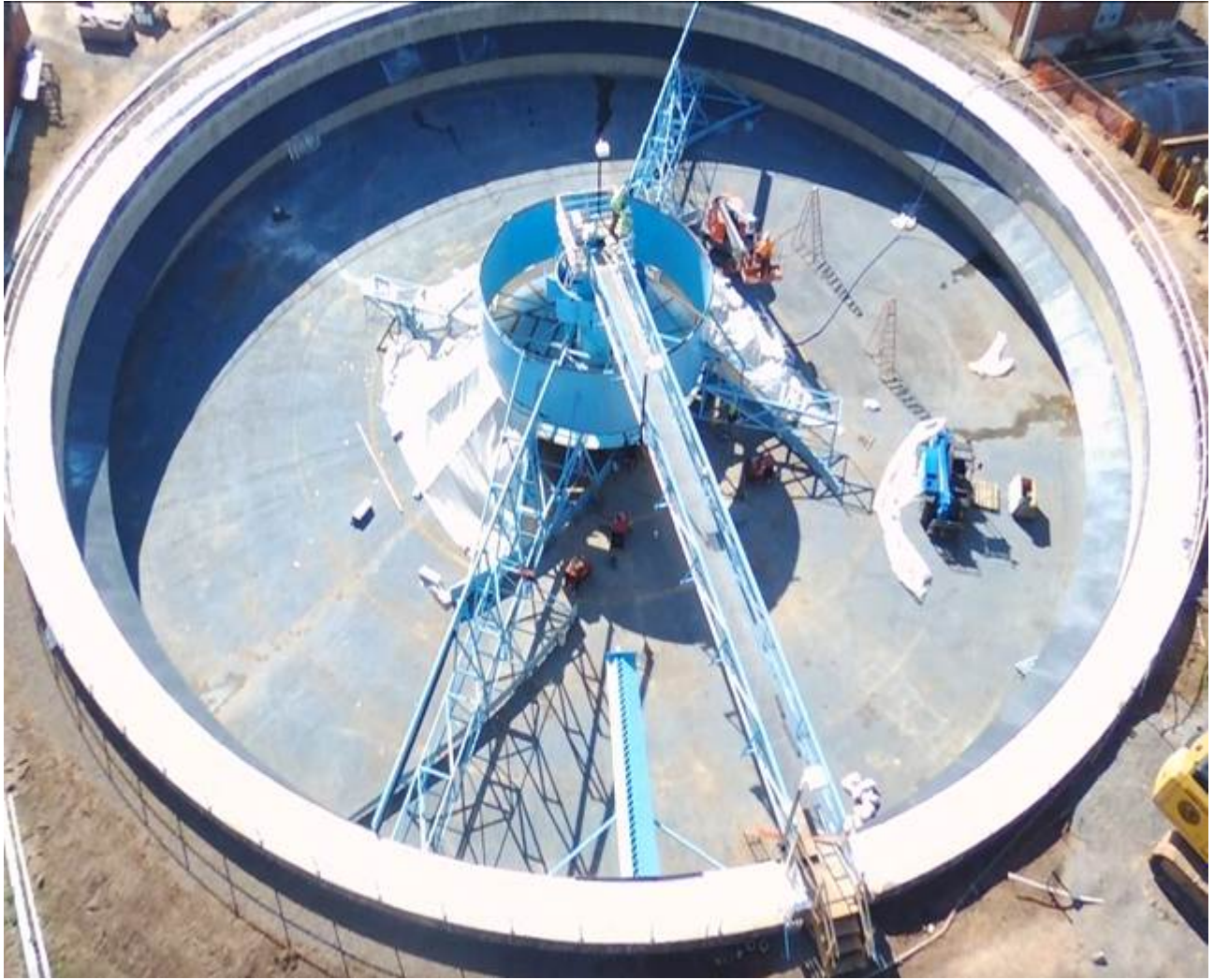


Allen-Daniel, Leslie

From: John Thompson <John.Thompson@lrwra.com>
Sent: Thursday, May 27, 2021 11:12 AM
To: Allen-Daniel, Leslie
Subject: Adams Field Improvements Update

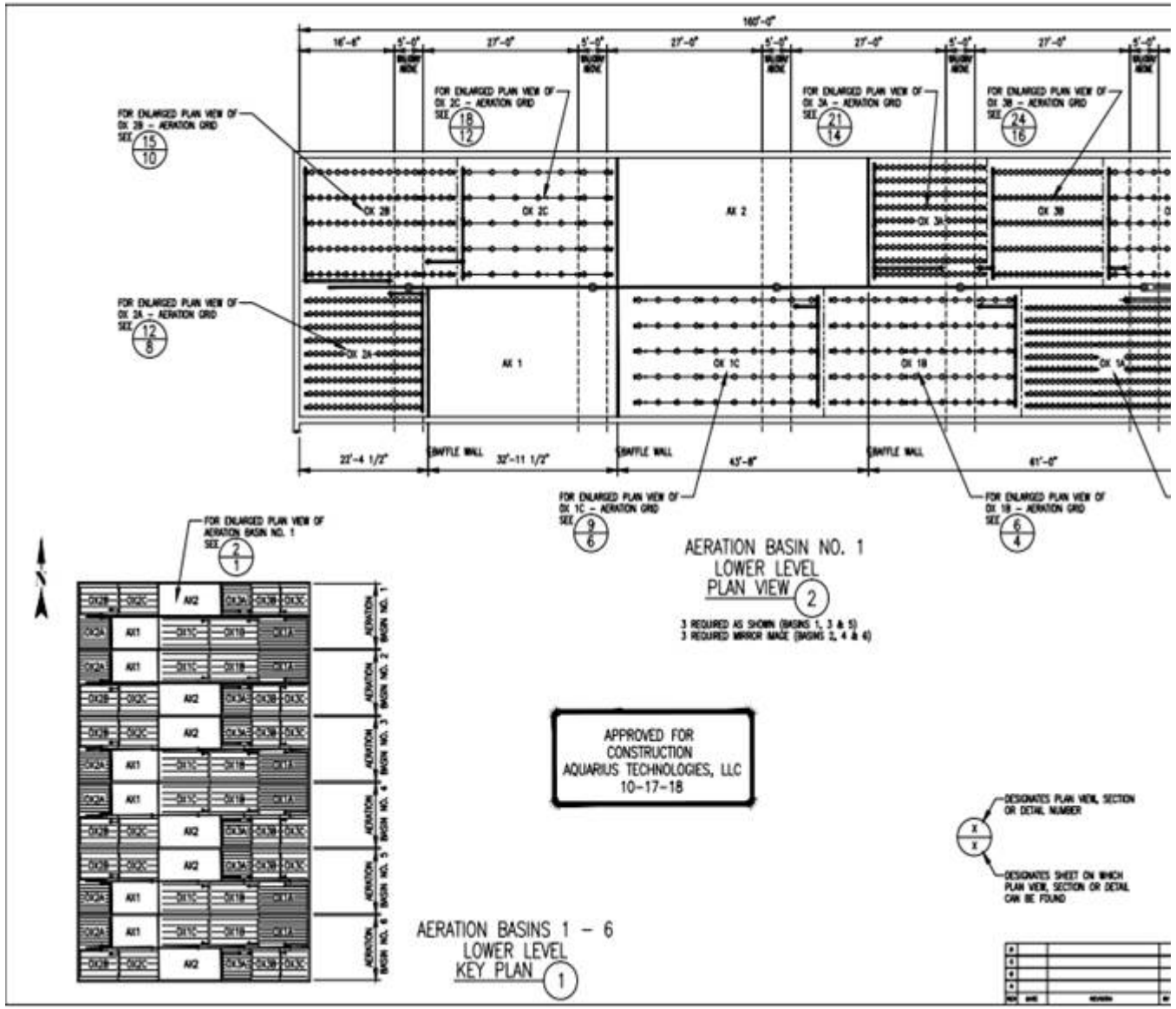
Good Afternoon, I wanted to take a moment to go over a few milestones that while late, have finally been met by the contractor doing our facility upgrades.

1. Adams Field's Secondary Clarifiers no longer have draft tubes in them for the removal of the settled sludge. Instead we have changed over to Clarifiers with spiral rakes that move the solids to the center of the floor to a sludge hoper for removal. This allows us to carry the extra solids needed to meet the new NH3 discharge limits. These clarifiers are also equipped with an Energy Dissipating Inlet (EDI) to help dissipate the energy from the inlet jets, a McKinney Baffle to turn the flow radially outwards across the top of the underlying sludge blanket and Stamford Baffles along the sidewall to turn the flow rising up the sidewall back towards the center to limit solids carry-over to the peripheral effluent weir. Secondary Clarifier #1 came online on November 1, 2020 and secondary clarifier #3 was placed in service on February 10, 2021. Secondary clarifier #2 is scheduled to be placed in service during the first week of June.



2. Adams Fields Six Aeration basins were converted from a Complete Mix Activated Sludge system to a Step Feed BNR Activated Sludge system that features two anoxic zones and three aerated zones that were designed to meet the new NH₃ discharge limits. The final upgraded basin was placed in service on March 6, 2021. The Blower Building was upgraded also. We replaced the old Hoffman Blowers with 3 new Continental Blowers and a new Blower Interface that controls the air to the Aeration Basins.

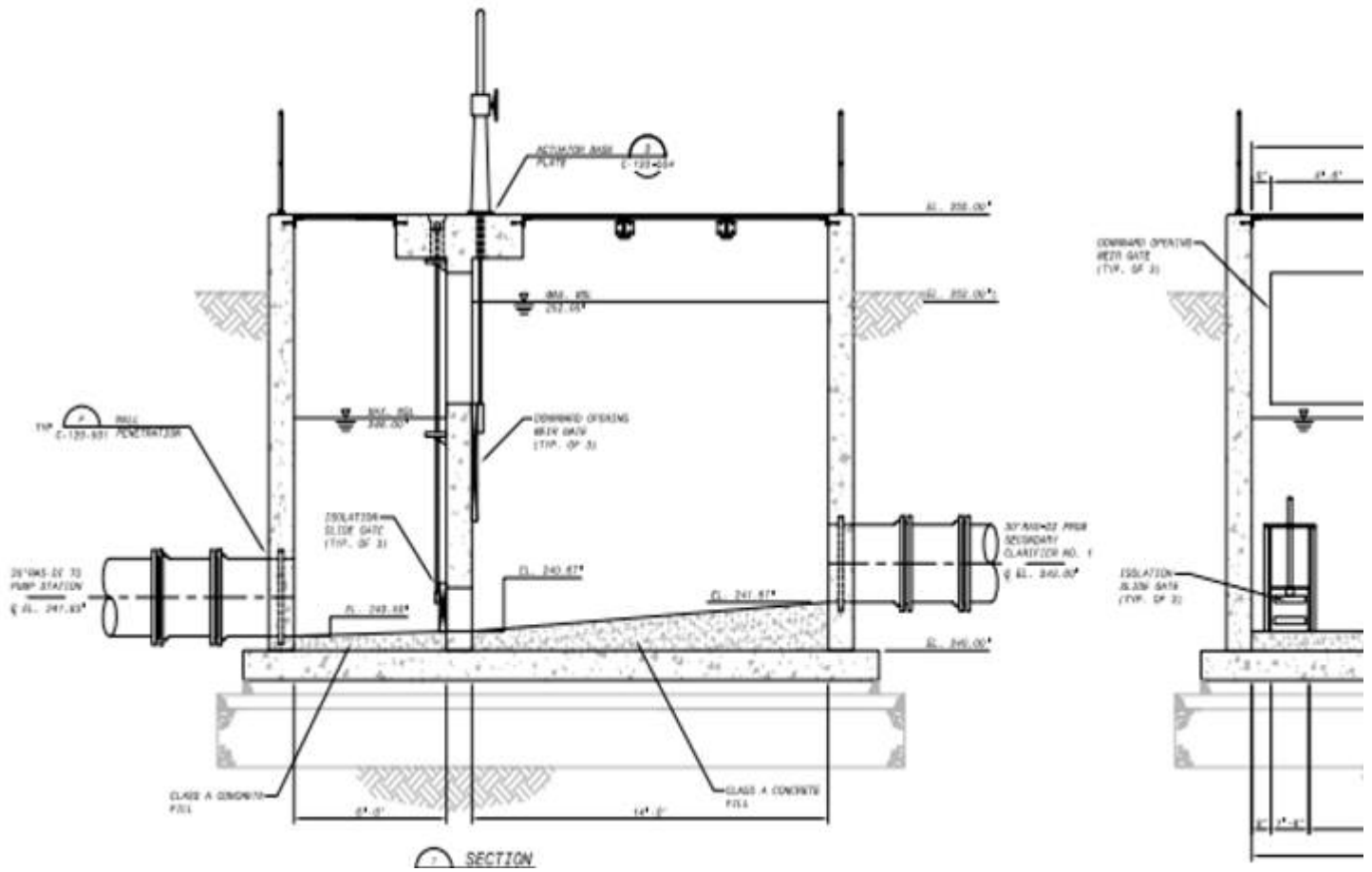


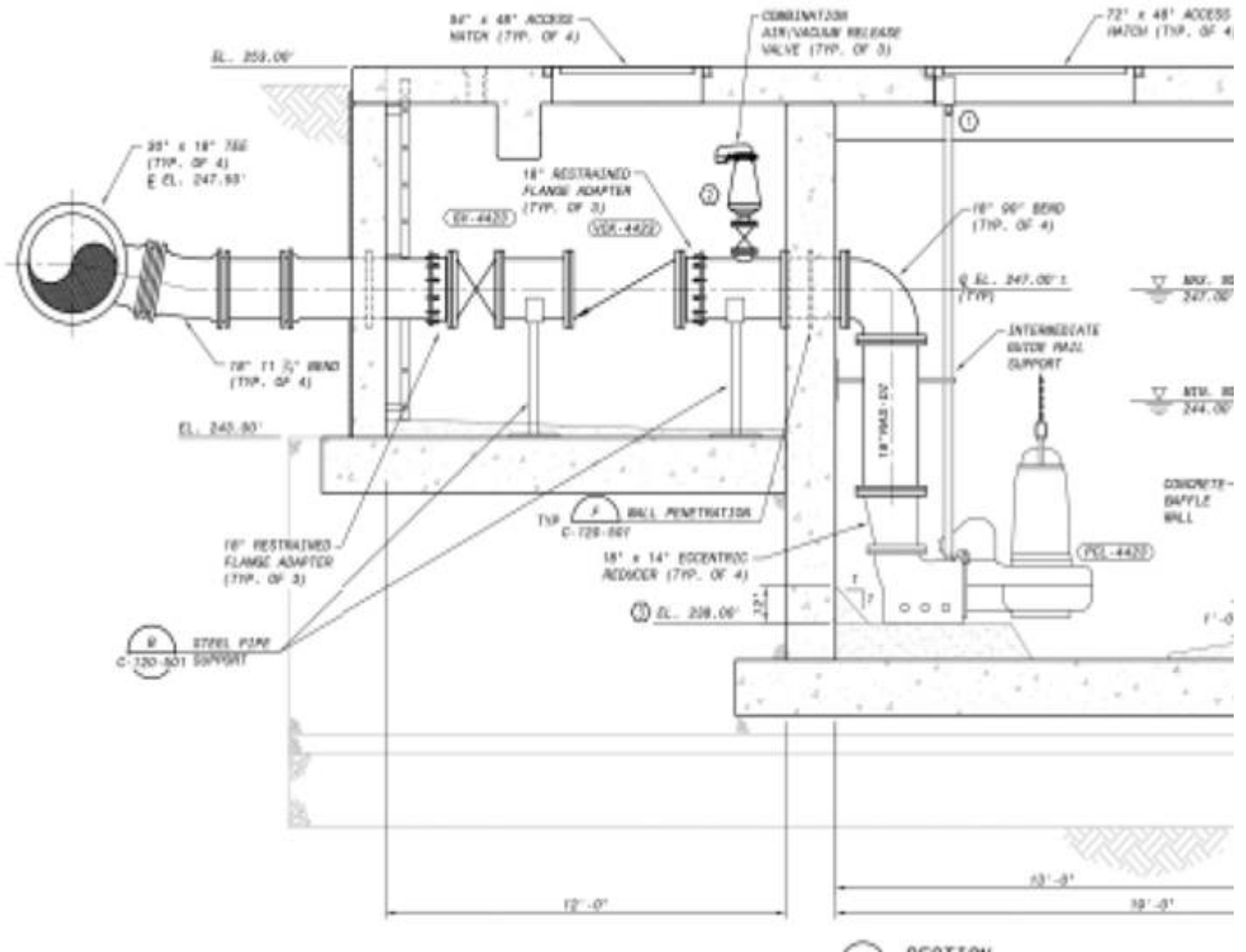


3. The old Return Activated Sludge (RAS) system has been removed and replaced with a new RAS system that consists of two parts, the Control Structure that controls the flow of solids coming from the clarifiers by raising and lowering a weir gate and measuring the head over the weir to calculate each clarifier's flow rate. After flowing over the weirs of the Control Structure the RAS then flows into the RAS Pump Station Wetwell from which it is pumped back up to our Mixing Chamber to be sent back to our Aeration Basins. Adams Field made the conversion from the old RAS system to the new RAS system on May 7, 2021.



RAS Control Structure





During this COVID-19 health crisis, LRWRA is continuing to provide customer service while implementing safety precautions to protect residents and employees. There may be a slight delay in email correspondence; but we will respond as soon as possible.

John Thompson
 Water Reclamation Facility Supervisor
 1001 Temple St.

Little Rock, AR 72202
Office: (501)688-1543
www.lwra.com



This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error, please notify the sender. This message may contain confidential information, and is intended only for the individual named.