



O.N. Stevens Water Treatment Plant Raw Water Influent Improvements

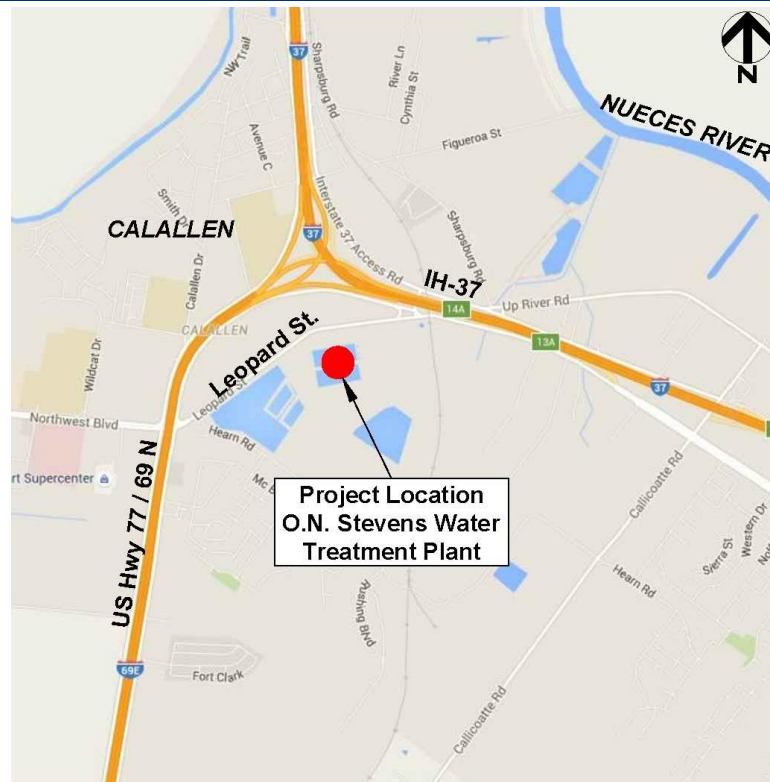
Project No. 8643



Council Presentation
April 12, 2016

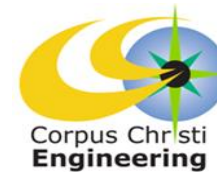


Project Location





Project Location





Original Project Concept

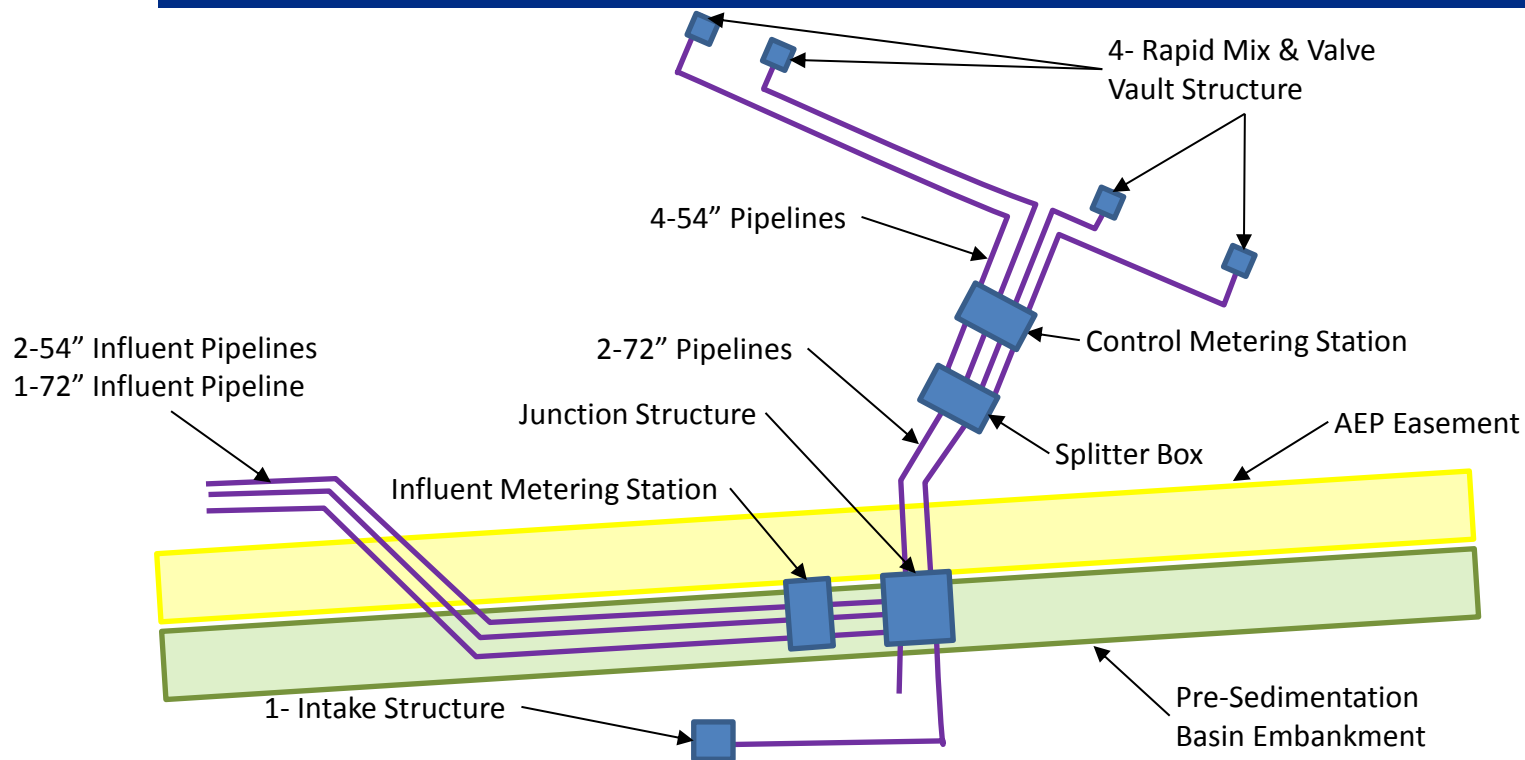
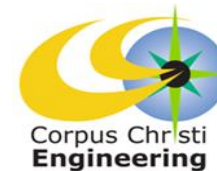


Implements modifications to the plant hydraulics that will increase the potential plant capacity from approximately 160 MGD to approximately 200 MGD

- Maximum Permitted Flow = 161.5 MGD
- Correct a Hydraulic Issue limiting plant capacity when considering future needs
- Future Needs = Approximately 200 MGD

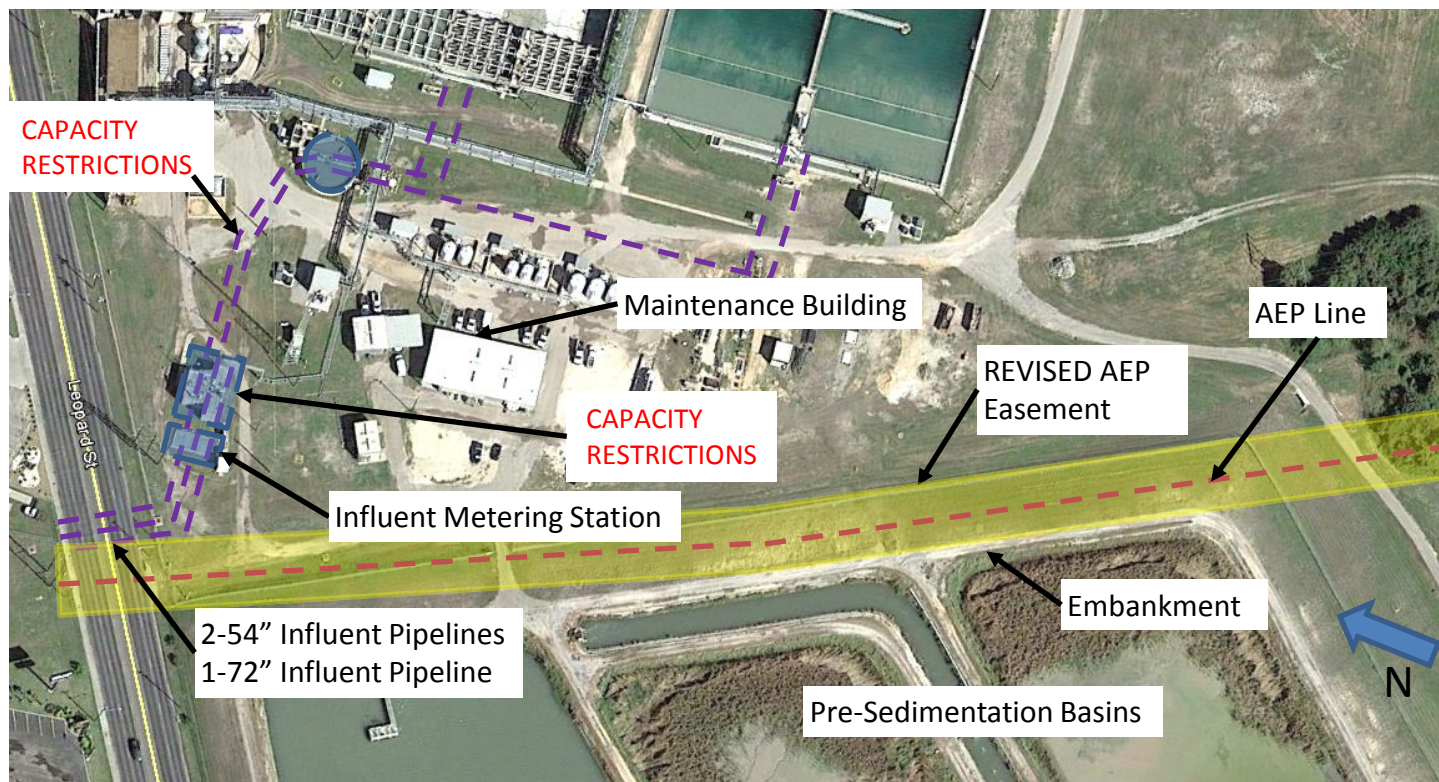


2008 Original Project Concept



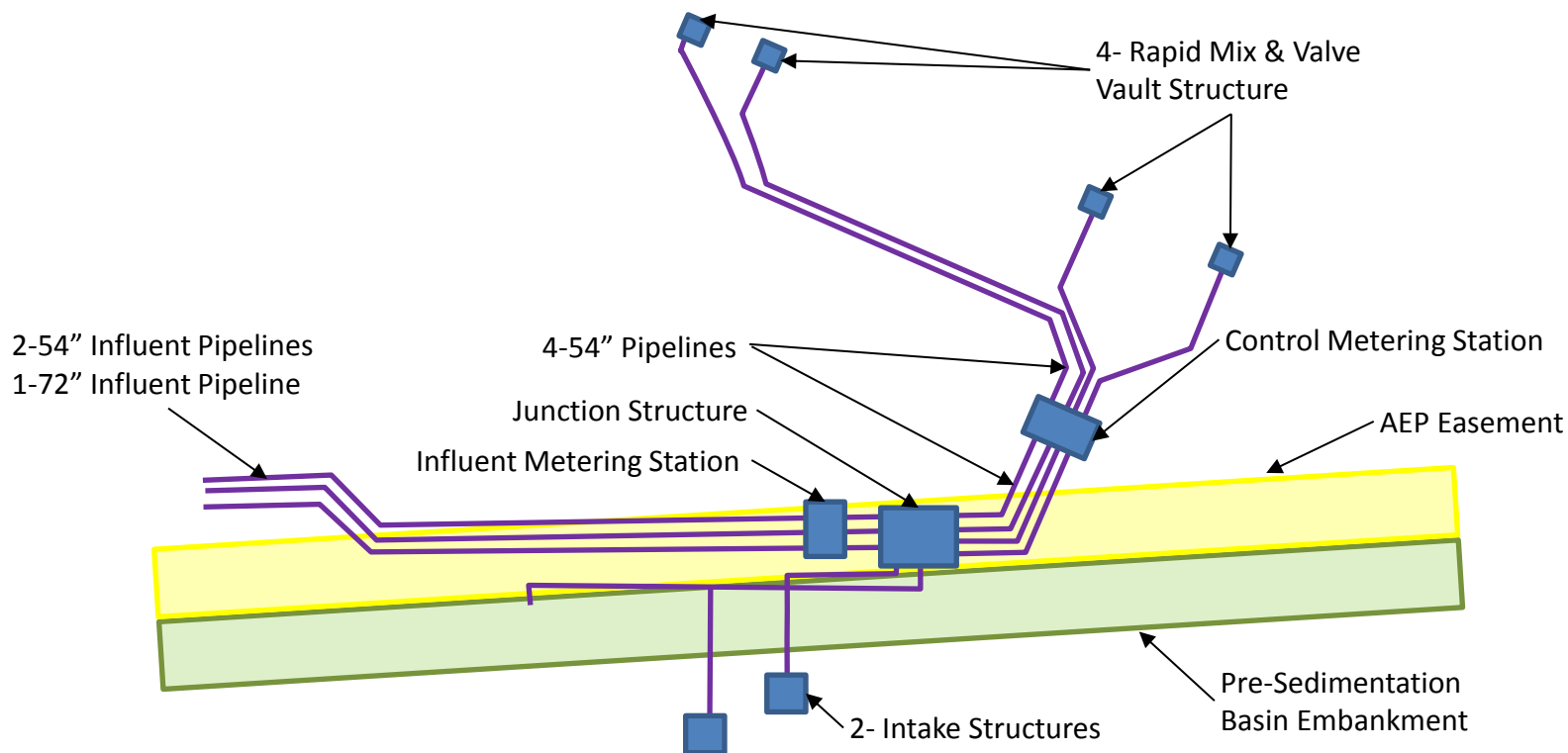


Existing Conditions





Preferred Project Concept





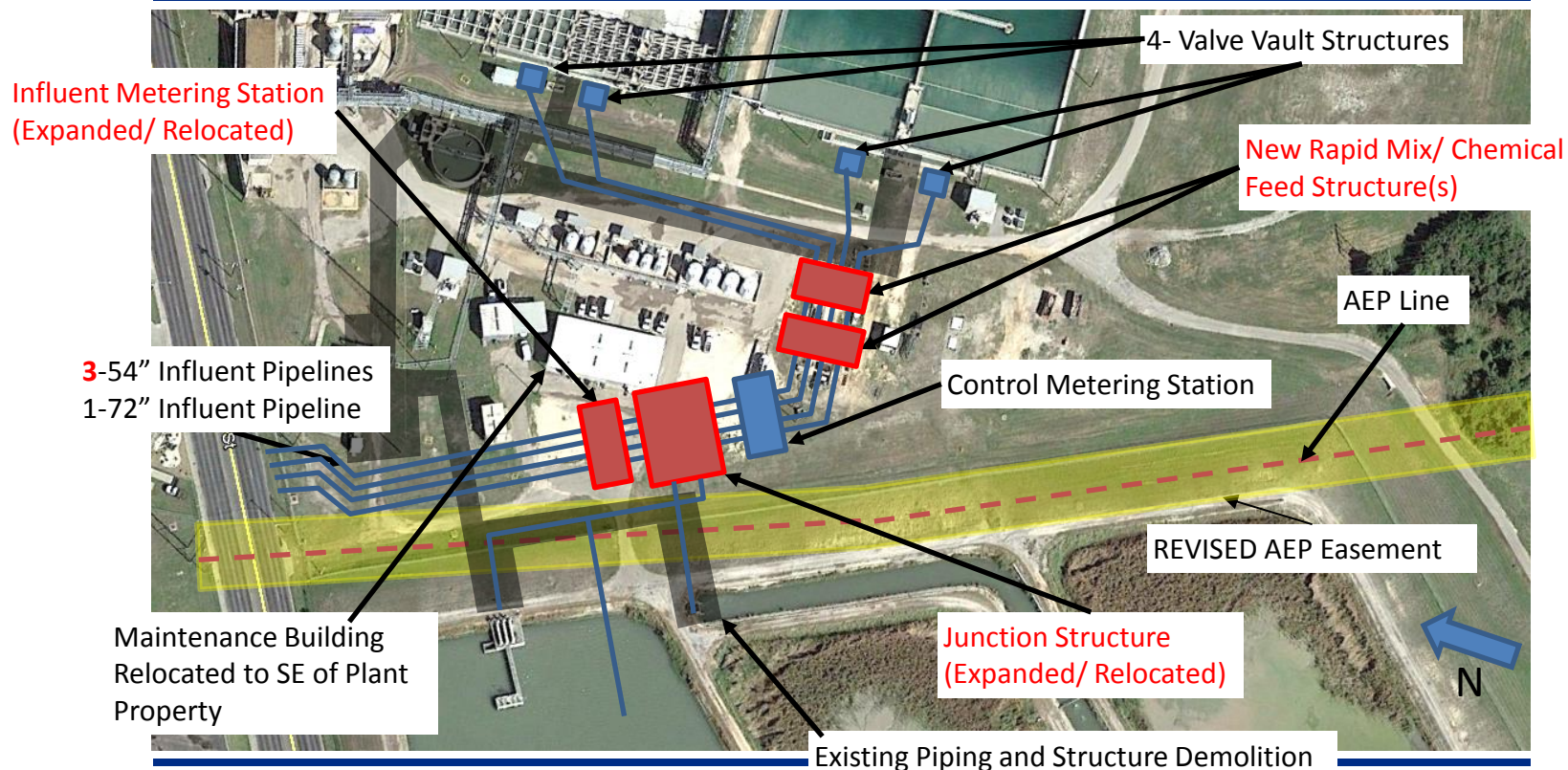
Project Halt



- Conflict with AEP transmission line identified during preliminary design.
- City decision to proceed forward because of Las Brisas water need.
- Design was halted at approximately 40% in 2010 awaiting for relocation of AEP transmission line.
 - Easement pre-dated the WTP
 - Prevented full City use of plant property
- Agreement reached with AEP during 2012-2014
- AEP re-engineered and relocated the line
 - Original Budget of \$5.6M > Actual Cost of \$3.4M
 - Relocation Substantially Complete February 2016



Proposed Site Improvements





Proposed Amendment Scope



- Update the site plan with the AEP line and 4th influent pipeline
- Update hydraulic model for the plant with the additional influent pipeline
- Expand influent metering station and junction structure
- New chemical injection vaults and rapid mix structures
- Upgrade power distribution
- Demolition and relocation of existing maintenance building
- Coordination of the construction documents with the Chemical Feed Optimization project



Project Schedule



2016												2017												2018												2019											
M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D				
Design													Bid & Award		Construction																																

Project Estimate: 1,290 Calendar Days = 43 Months

Projected Schedule reflects City Council award in April 2016 with anticipated construction completion by December 2019.