Adaptive Innovation to Design and Construct Trapac Oakland's Expansion within an Operating Terminal

Port & Terminal Technology USA 2019



Team Members









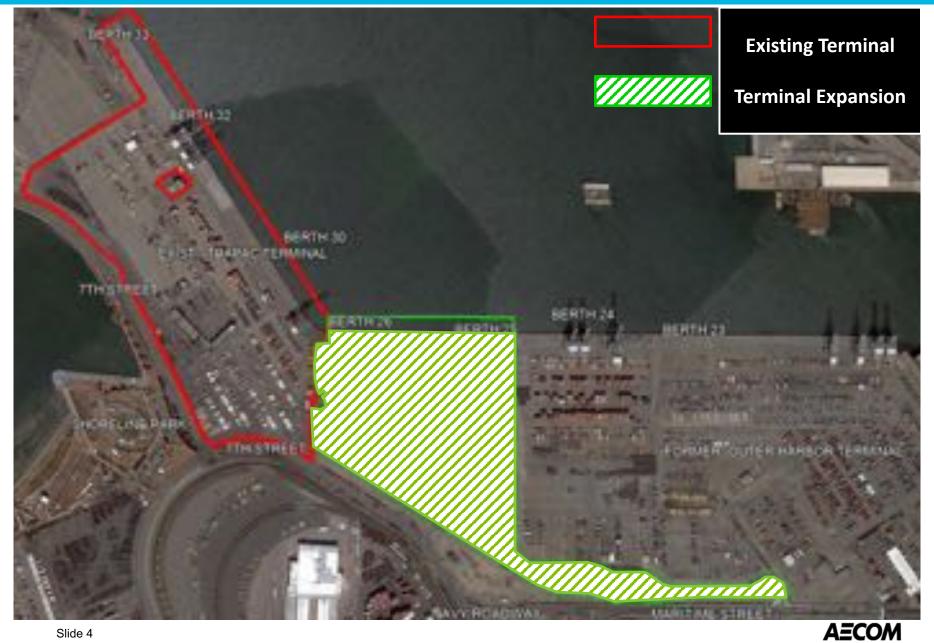




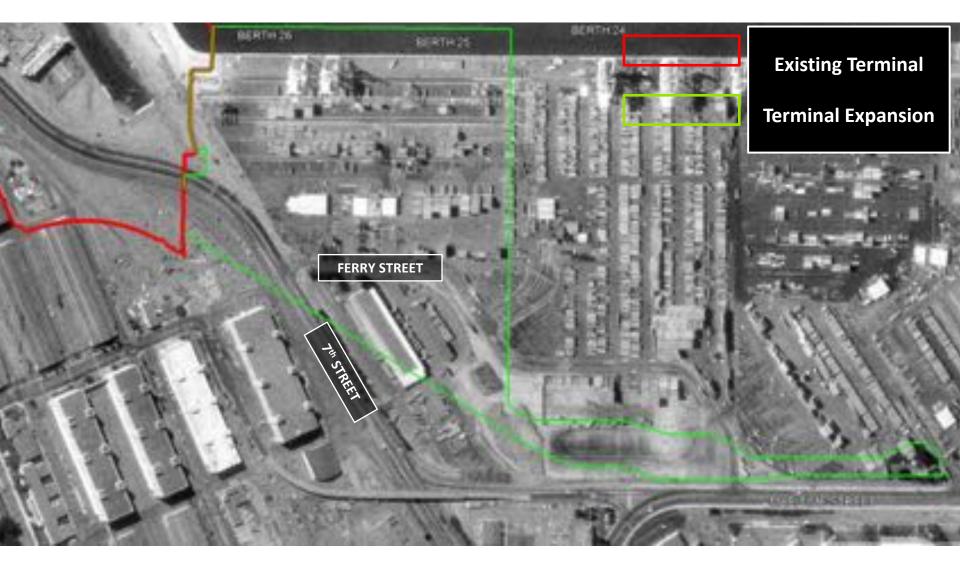
Project Location



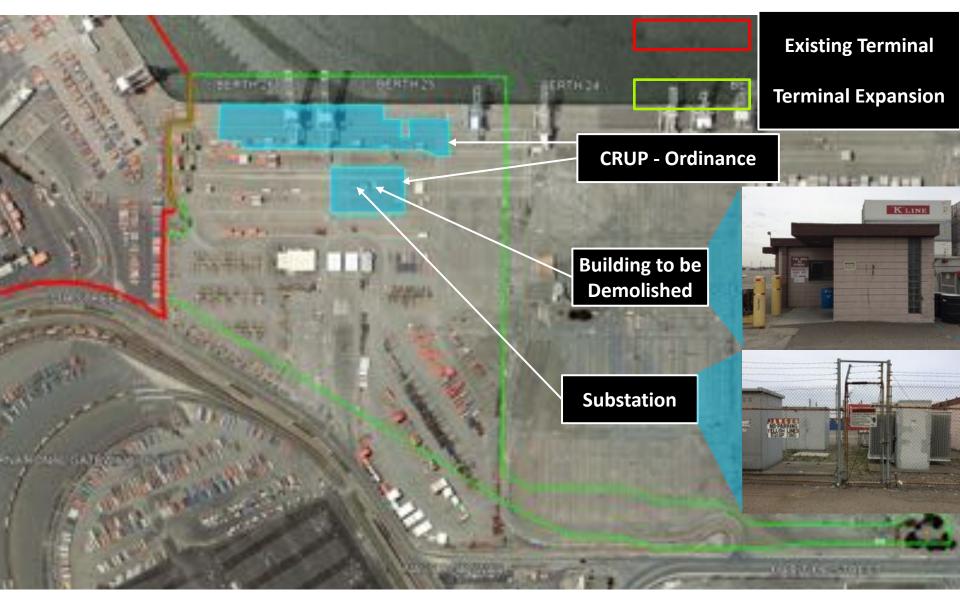
Project Location



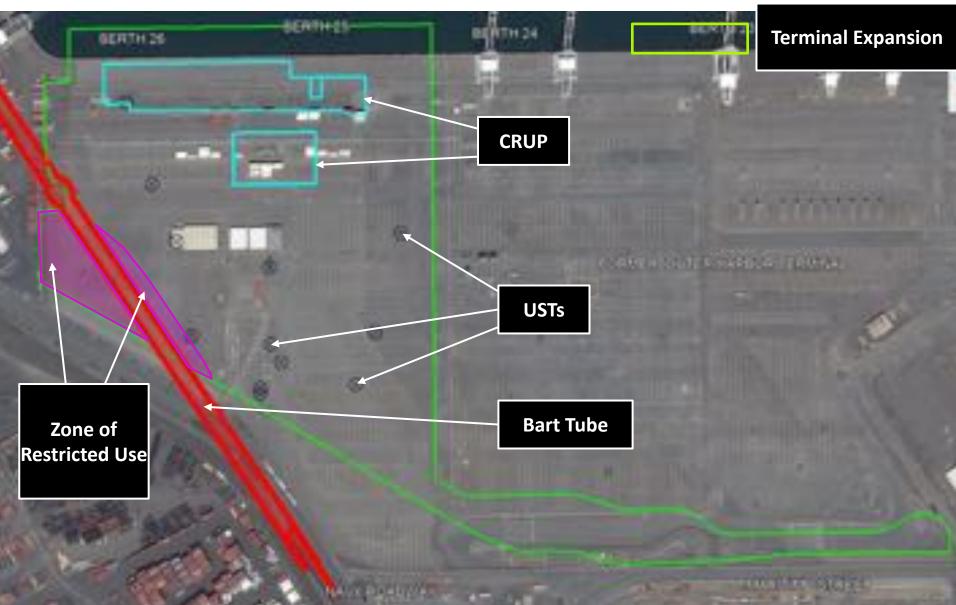
Google Earth: 1993



CRUP Ordinance : 2007 - 2009



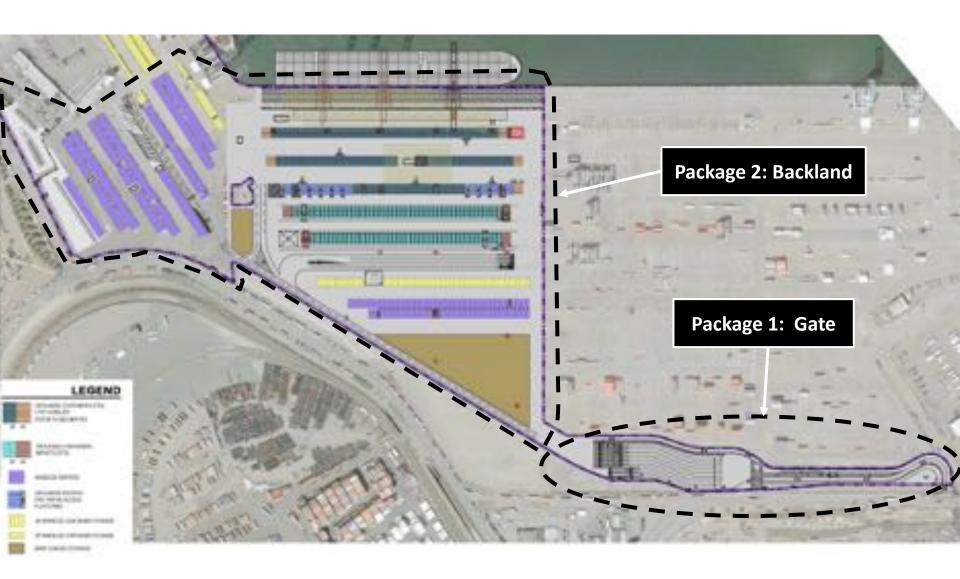
Site Constraints



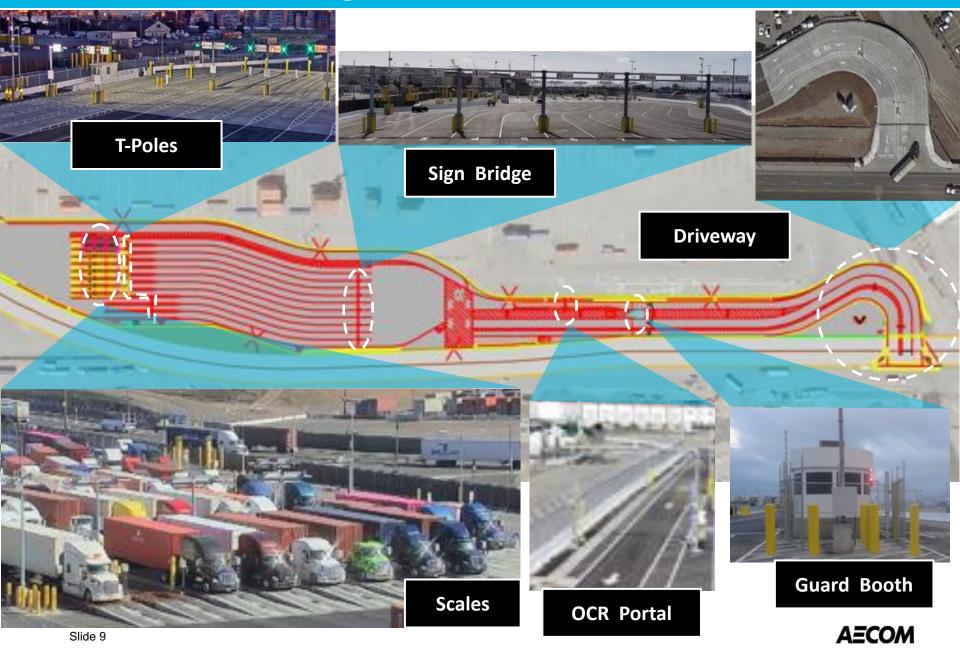
Slide 7

A=COM

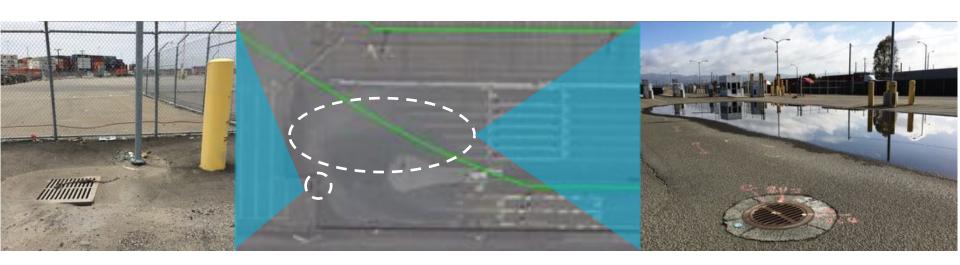
Project Layout



Gate – Walk Through

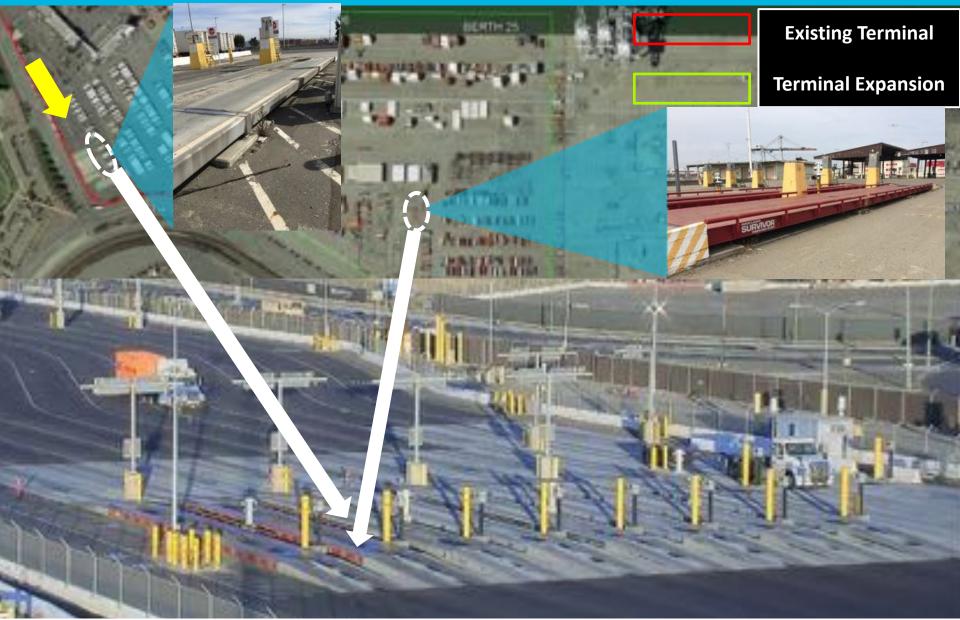


Gate - Drainage

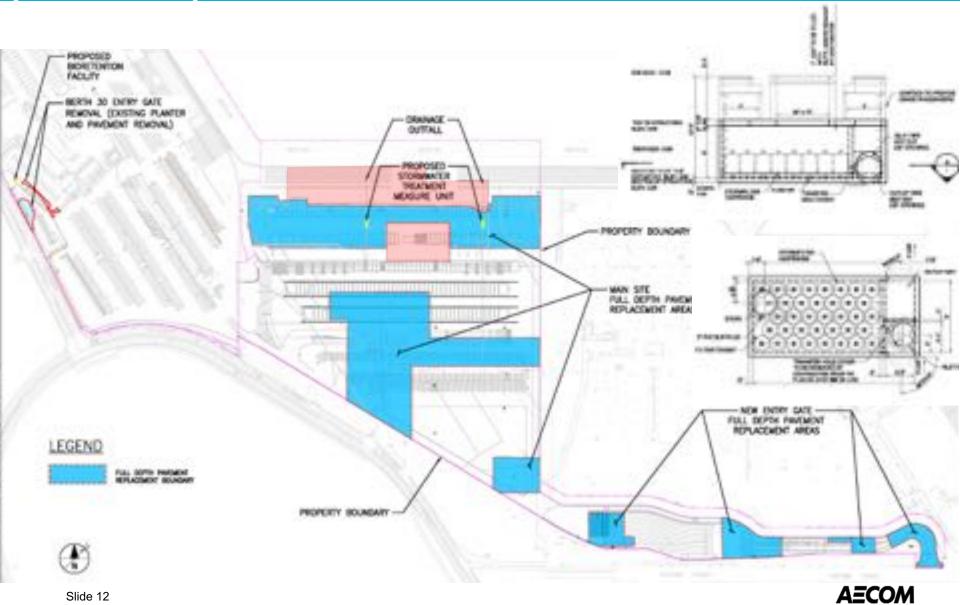




Gate - Scales



Post Construction Stormwater Management Plan (PCSWMP) – At Bid

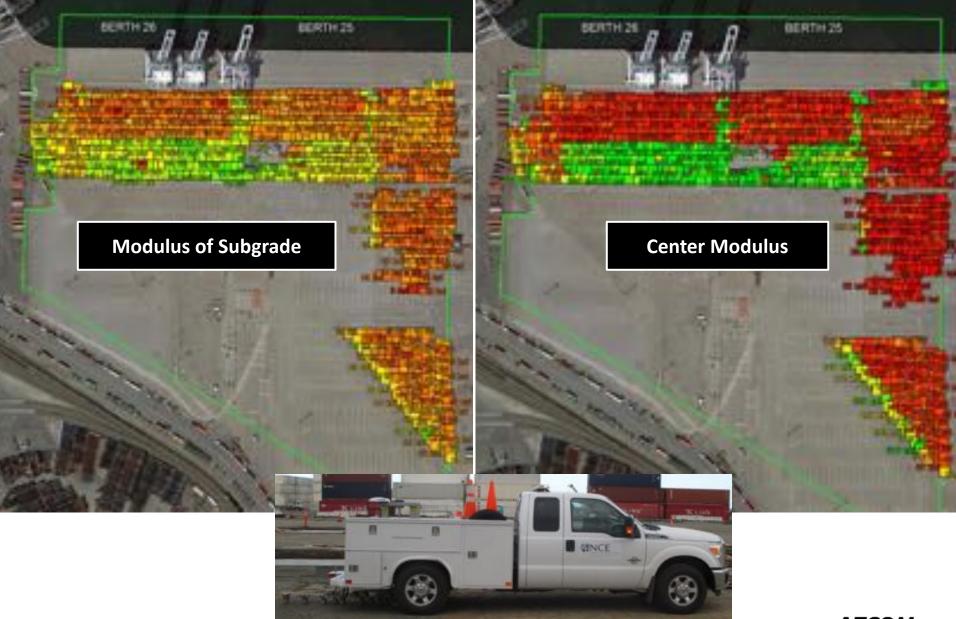


Unforeseen Subsurface Condition

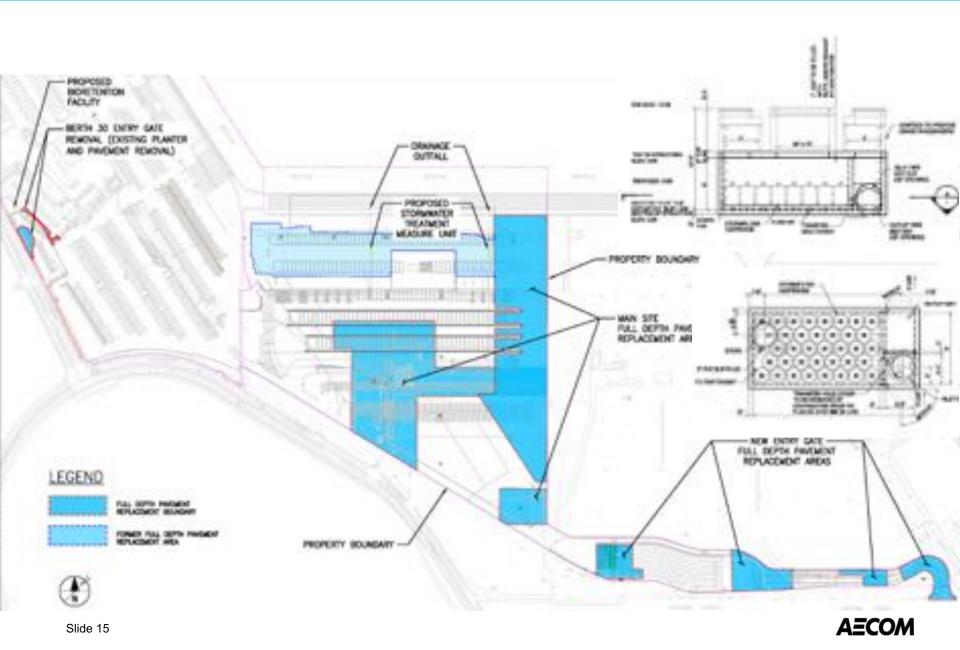




Falling Weight Deflectometer Analysis



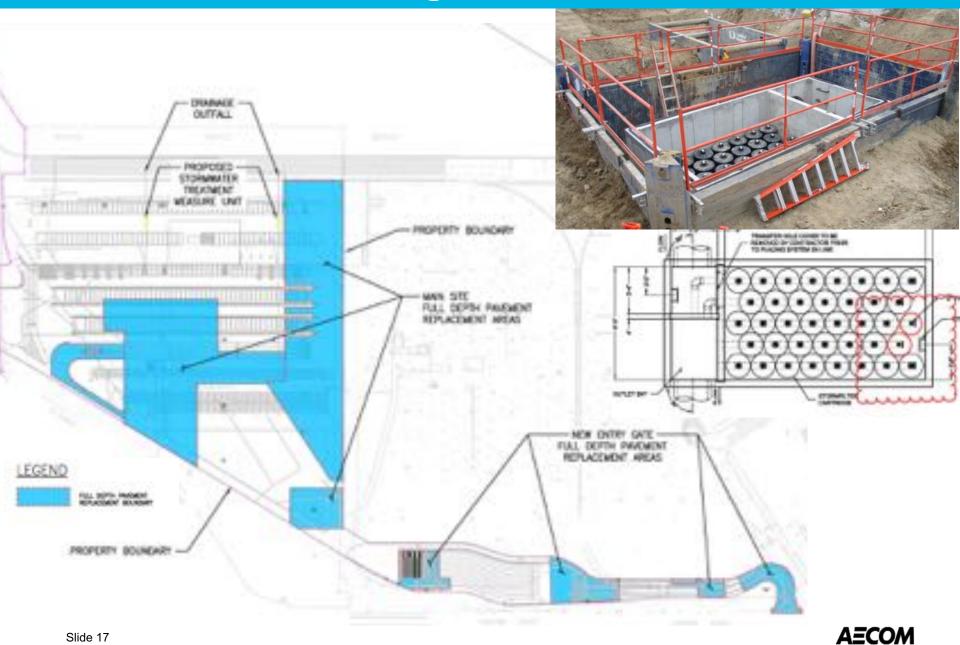
PCSWMP – Midway Through Construction

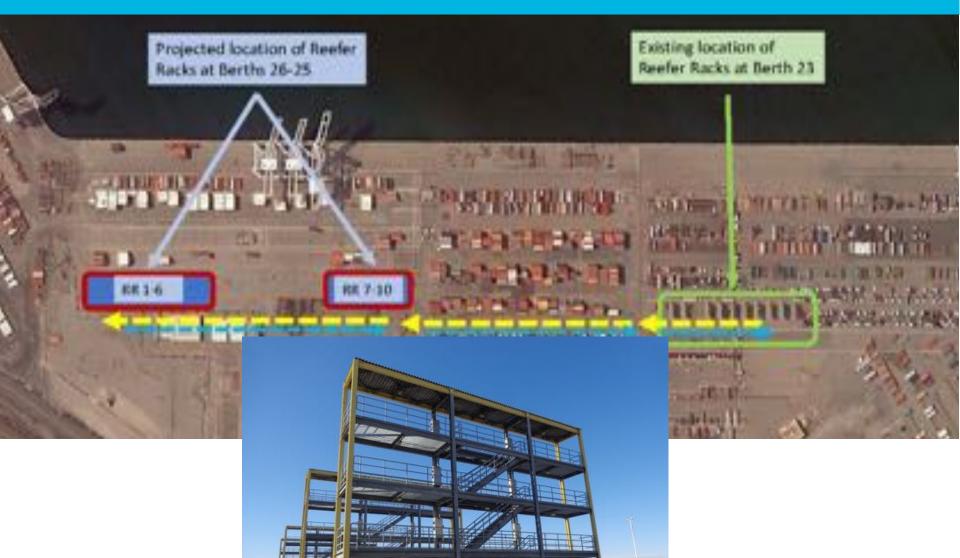


Soil Cement Mixing



PCSWMP – Amended Again



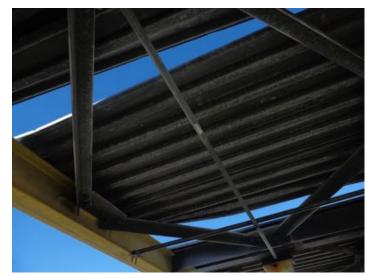




Mechanical damage to column



Bent column Flange



Gaps in roof deck



Bent beam flange



Damaged beam flanges



Bent beam flanges and guardrails

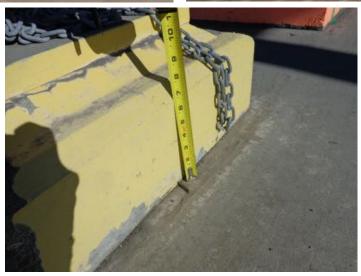






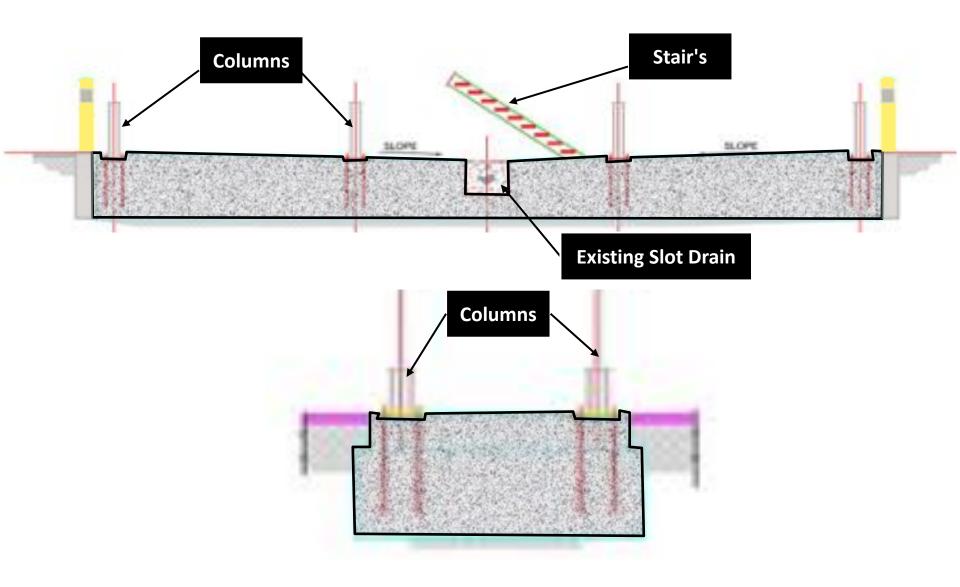






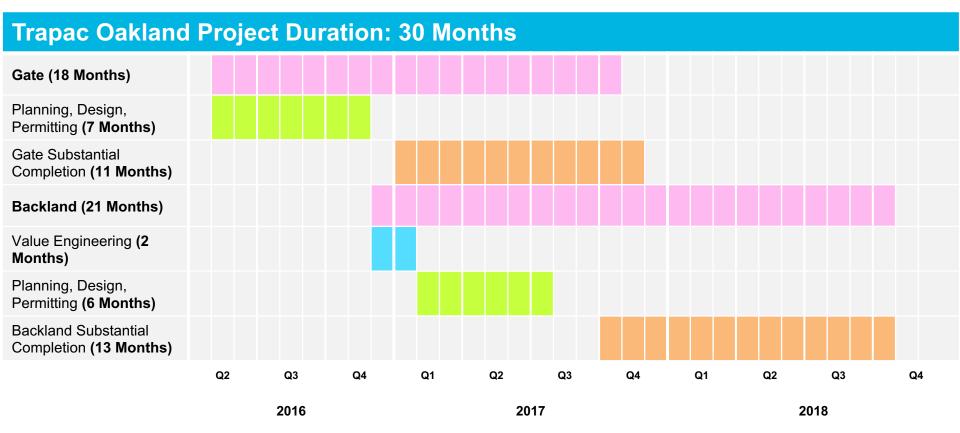
Foundation height varies







Schedule





Partnering – The Key

- Respect

- Responsibility

- Trust

Questions?

