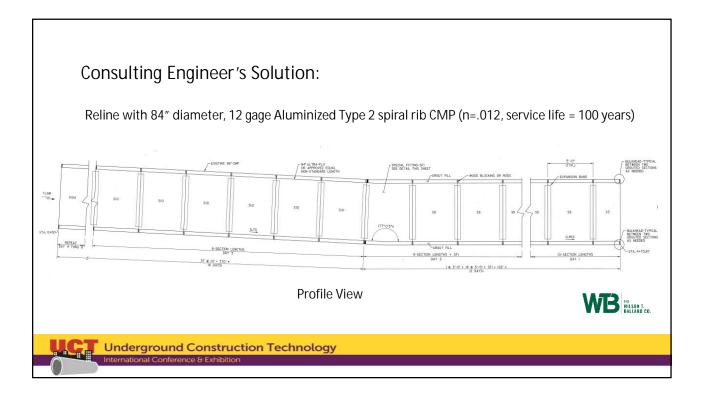
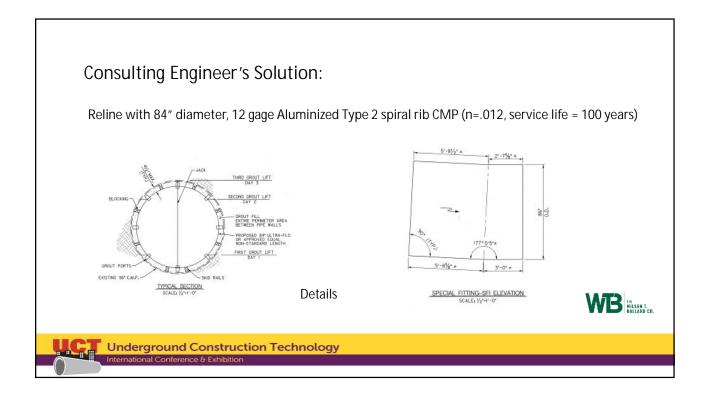
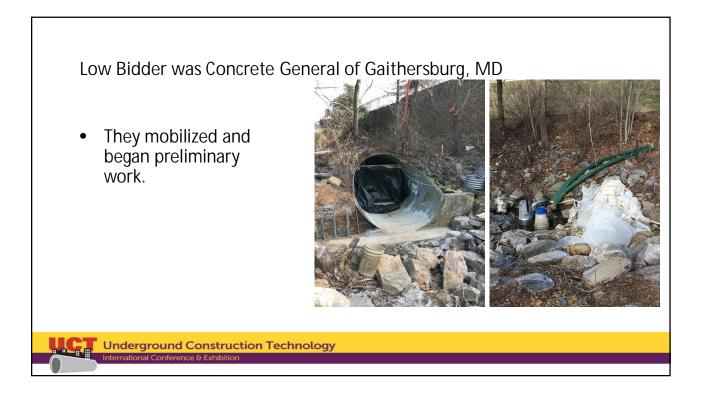




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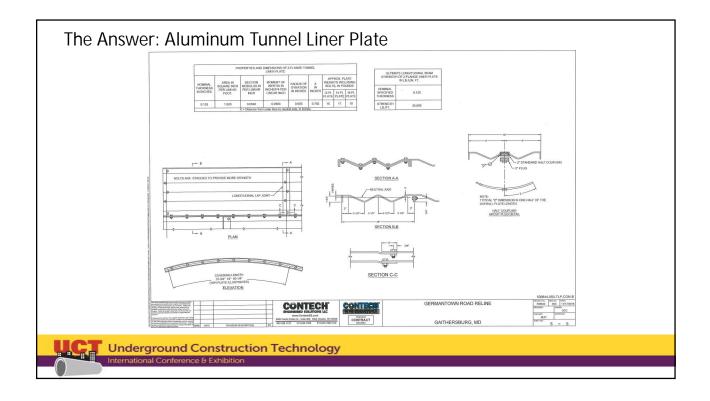
A 20' long section of the 96" host pipe shifted

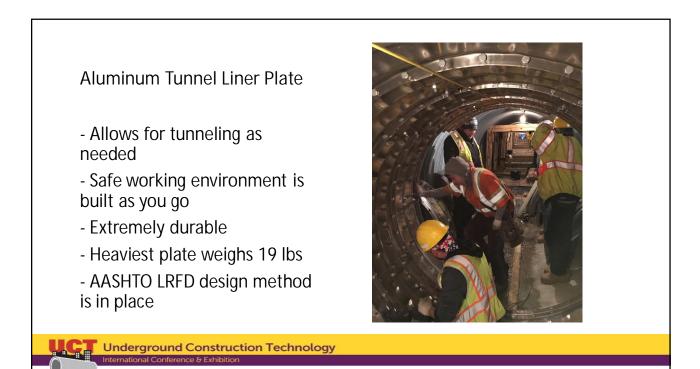
- Workers were inside that section at the time
- Soil arch had sheared
- Safety of workers became a higher risk
- New 84" pipe no longer a clean fit

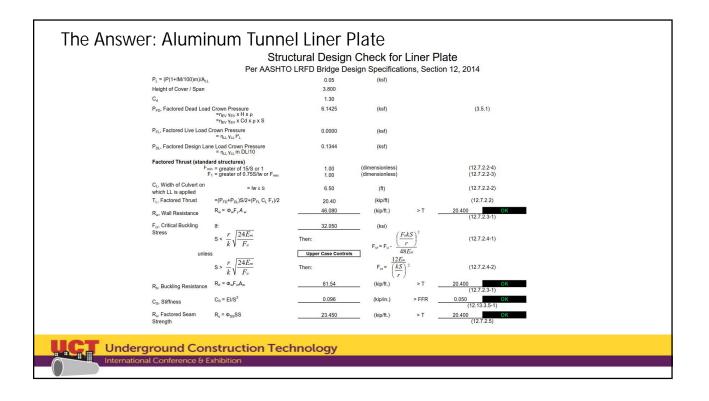
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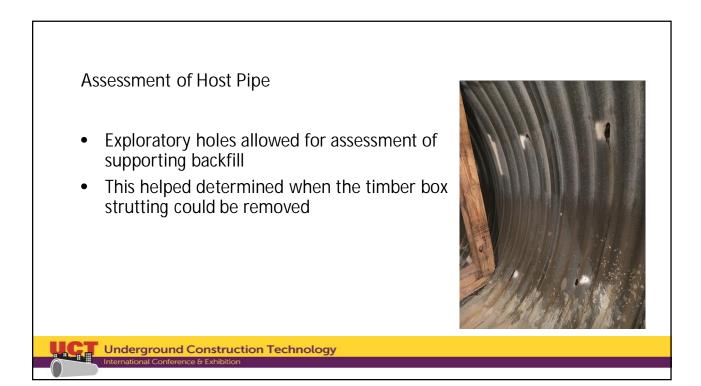


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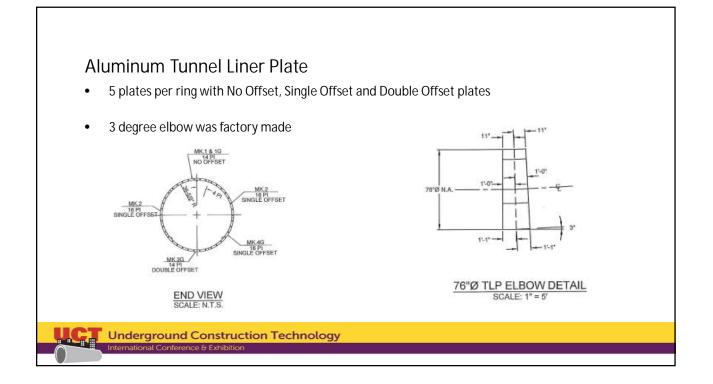






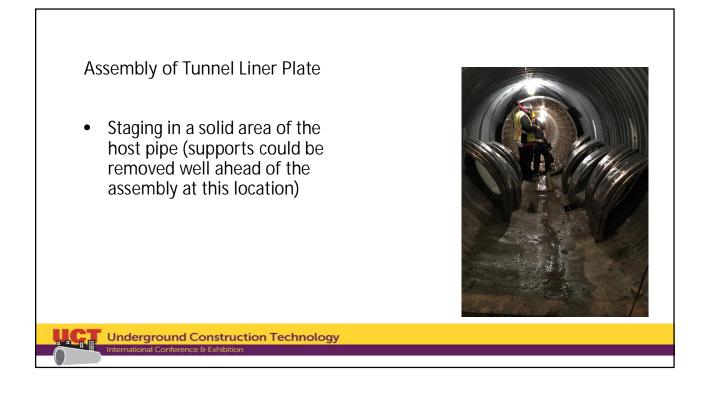


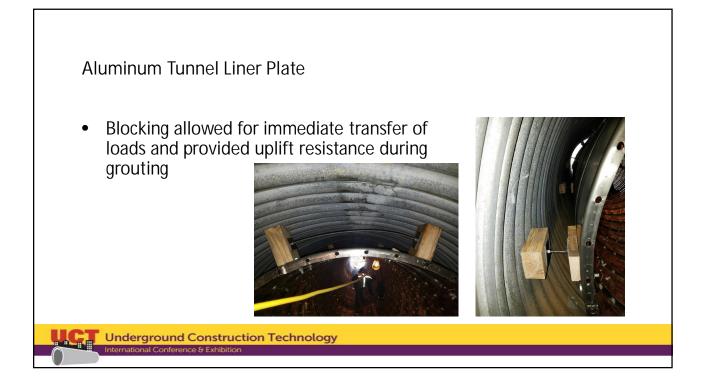
Assessment of Host Pipe If voids were found, a 'U' shaped cut allowed for the host wall to be opened up at the time of liner plate assembly and blocking Openings were located at top of voids Openings allowed grout to fill the voids during liner grouting

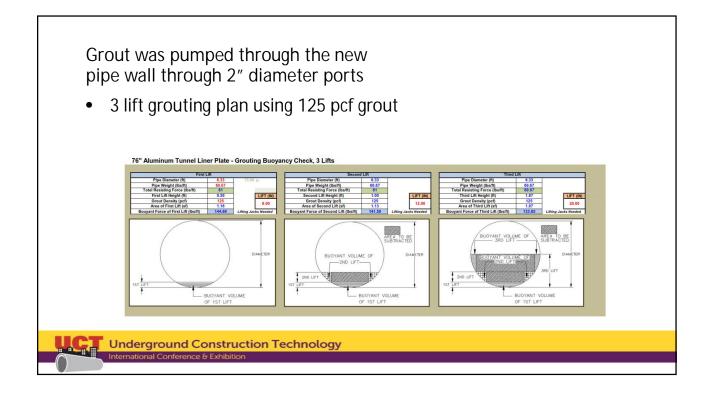
















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