

“Pouring the Future, Preserving the Past.” ®

QUINN CONSTRUCTION, INC.®

Tioga Marine Terminal Repair Project Philadelphia, PA

OWNER: **Philadelphia Regional Port Authority**

ENGINEER: **WSP USA, INC.**

PROJECT DESCRIPTION

Pipe Trench Repair:

- ◆ Installed 120 LF safety construction fence and safety barricades to maintain traffic around identify the work zone and to secure work zone.
 - ◆ Remove 7 existing concrete vault lids
- ◆ Construct 45 LF of protection over existing pipe lines.
 - ◆ 90 LF of demolition of existing steel angle and reinforced concrete wall ledge (20"wide by 13" deep)
 - ◆ Repair one cross beam by adding two slotted holes at anchor bolts and repair corner spall at one anchor bolt
 - ◆ Installed, drill & epoxy 160 custom dowels
 - ◆ Cleaned existing rebar & apply corrosion inhibitor and add bonding agent to concrete surface
- ◆ 90 LF of wall forming - install steel angle into form, pour and finish 4000 PSI concrete apply curing compound.
 - ◆ Re-install vault lids in new steel angle ledge

Dock Vault Repair:

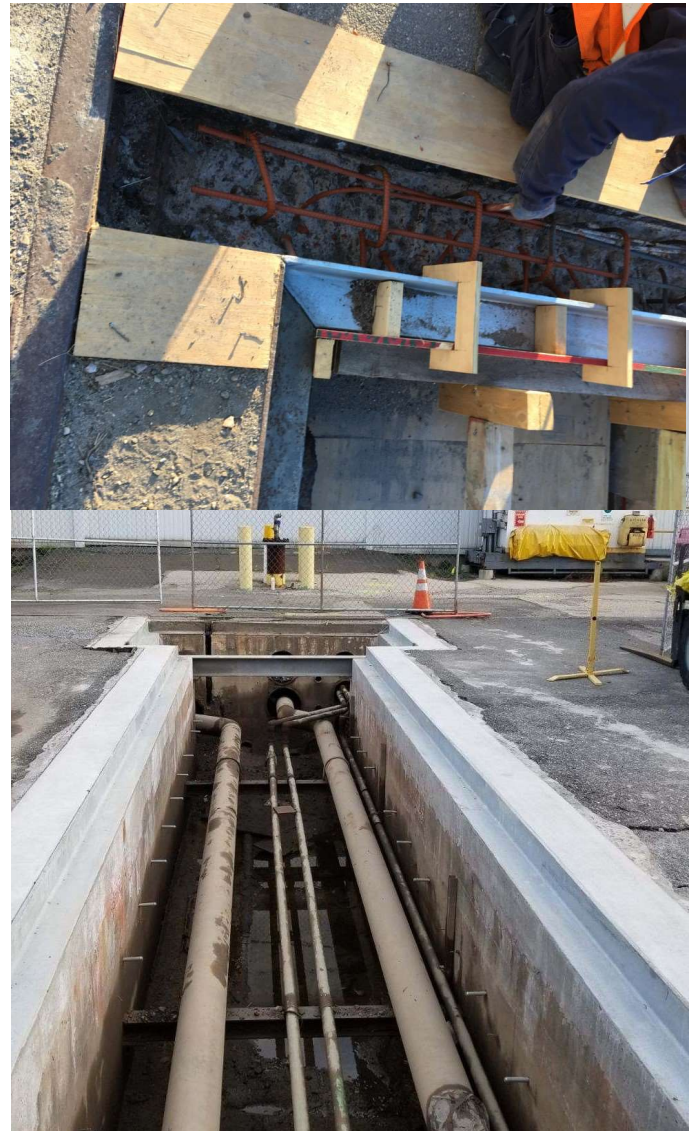
- ◆ Demo two steel cross beams and two concrete slab covers
 - ◆ Demo 50 SF x 4" deep of asphalt pavement removal
 - ◆ Install expansion fiber at the expansion gap
 - ◆ Install form in vault, pour and broom finish 4000 psi concrete, apply curing compound
 - ◆ Apply caulk at the expansion joint

CHALLENGES

At PRPA Tioga Terminal, the pipe trench walls and dock vault had deteriorated concrete that required immediate repair.

SOLUTIONS

Mobilized for urgent fence and work area protection, demo asphalt and all deteriorated concrete vault areas. Replace steel edge angles, form, pour and finish concrete in secure port areas.



“QUINN CAN DO IT ALL”

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