Nogales Trunkline and IOI Projects Phasing & Status

- Phases 1-3: Rehab of 5.3 Miles of piping and 56 manholes
  - Construction Award: 7/13/21
  - Construction Completion Required: 10/29/23
  - Contractor: SAK Construction
  - Cost: $13.9 Million
  - 0.6% cost increase to add riprap for MH86
  - Mobilization and Construction Start: 4/25/22
  - Approximately 10% complete

- Phases 4 & 5: Rehab of 3.4 Miles of piping and 38 manholes
  - Solicitation in progress
  - Proposals due 7/5/22
  - Expected Construction Award Date: 9/30/22
  - Construction Duration: 660 calendar days or 22 months
  - Anticipated Construction Completion: Summer 2024
Phase 1 Progress

- Built and installed 10,400’ overall bypass piping for Phase 1
  - 27,500’ of total fused HDPE pipe
  - 5 Primary 12” pumps and 3 Standby 12” pumps
  - 1 pipe crossing under UPRR tracks
- Phase 1 bypass operation started 6/6/22
- Sewerline cleaning started 6/6/22
- Wash repairs completed at MH 93 and in progress at MH 86
Phase 1 IOI Rehabilitation

- Total 8,556 LF pipe - 30”, 36” & 42” diameter
- CIPP
  - 7 shots or installations
  - Longest installation – 1,910LF over 3 sections
  - Approximately 8 weeks
  - Final internal diameters range from 28.3” to 40.3”
- 16 Manholes - 4’, 5’ & 6’ diameter
- Manhole rehabilitation to follow after each CIPP installation
Wash Repairs at Manhole 93

- Wash repairs completed 5/23/22
- Removed debris
- Placed grouted riprap
- Provided swale for drainage of CMP to Wash
- Gabion installation along Wash
Wash Repairs at Manholes 86-87

- Wash repairs in progress; scheduled completion of 6/16/22
- Riprap installation along eroded bank completed
- Concrete encasement of bare pipeline between Manhole 86-87 started 6/6/22
Rehabilitation Phases 2&3 Progress

- Phase 3 estimated to start August/September 2022
  - Bypass planning in progress
- Phase 2 to start January 2023
  - Bypass plan completed
  - Traffic Control planning
Construction Requirements In Progress

Bypass Plan Approval
- City of Nogales (CON) approval of bypass piping plan for Phase 2 granted 2/23/22
- Pending information from CON for existing waterline by Public Works Building and at Park St.

Traffic Control Approval
- Traffic Control Plan for Phase 2 & 3 pending
- SAK to submit plans to CON for review in July/August.

Environmental Clearance for Wash Repairs
- Proceeded with Pre-Construction Notices to USACE
- Mitigation measures in place to protect endangered species in the Potrero Creek; no issues to date
Construction Requirements In Progress

UPRR Permit - Contractor Right of Entry (ROE) Status
• Contractor ROE for CIPP Rehab completed
• Contractor ROE for Manhole Rehab is pending approval for 1 of 2 subcontractors
• Permit approved for bypass piping crossing under tracks on 5/4/22 after 7 months
  • ADEQ assisted with expediting reviews from UPRR

Temporary Construction Easements Status
• Phases 1 & 3 have 11 easements within private properties shown
  • 10 easements finalized
  • 1 owner was reviewing agreement and became unresponsive but property area is minimal
Trunkline Flow Metering

- Existing flow meter at Manhole 5 requires removal during Phase 2 CIPP
- Metering to be provided through bypass system to ensure flow metering continues
- Discussion with City of Nogales pending for agreement on alternate metering
NADBank/City of Nogales Project Coordination

• Construction project for direct laterals within Phases 2-4 completed January 2022
  • Resulting work to USIBWC projects:
    • Cutting protrusions within Trunkline/IOI to allow CIPP installation in Phases 2-4
    • Removal of one non-standard manhole found in Phase 4
• Erosion protection measures along the Nogales Wash between Manholes 51-52
  • Coordinating work between erosion protection and Phase 3 bypass system setup
    • Phase 3 bypass setup to start August/September 2022
    • Erosion protection project anticipated to start after monsoon season (September/October 2022)
  • SAK has reduced their footprint for the bypass discharge downstream of MH51 to reduce conflicts
Other Improvements

Additional improvements under IBWC consideration for the IOI projects include:

• Debris screens at border
  • Reviewing requirements to build several screens at the Trunkline just north of border
  • Challenges include the size of available area near border, security measures, and impacts to nearby business and traffic
  • Various interagency agreements would be required
  • Estimating costs of design, construction, and operation & maintenance

• IOI sensors to detect flow levels and water quality changes for breach or “plug” monitoring
  • Reviewing requirements for sensors and the need for this data
Questions?

Additional questions may be sent to:
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