Meeting of Scarsdale Neighborhood Association Presidents

Replacement of

THE CRANE ROAD BRIDGE

April 30, 2012

Westchester gov.com

THE Crane Road Bridge PROJECT

Existing Conditions

Existing Parkway Conditions

Replacement of the Crane Road Bridge

Existing Structural Conditions

Replacement of the Crane Road Bridge

- **Historically Significant Bridge Designed by Delano & Aldrich Architects & Constructed in 1924**
- **Bridge is in Poor Condition**

Existing Structural Conditions

Replacement of the Crane Road Bridge

- Bridge Designed by Delano & Aldrich Architects & Constructed in 1924
- Bridge is in Poor Condition
- Outdated Bridge Type

Existing Structural Conditions

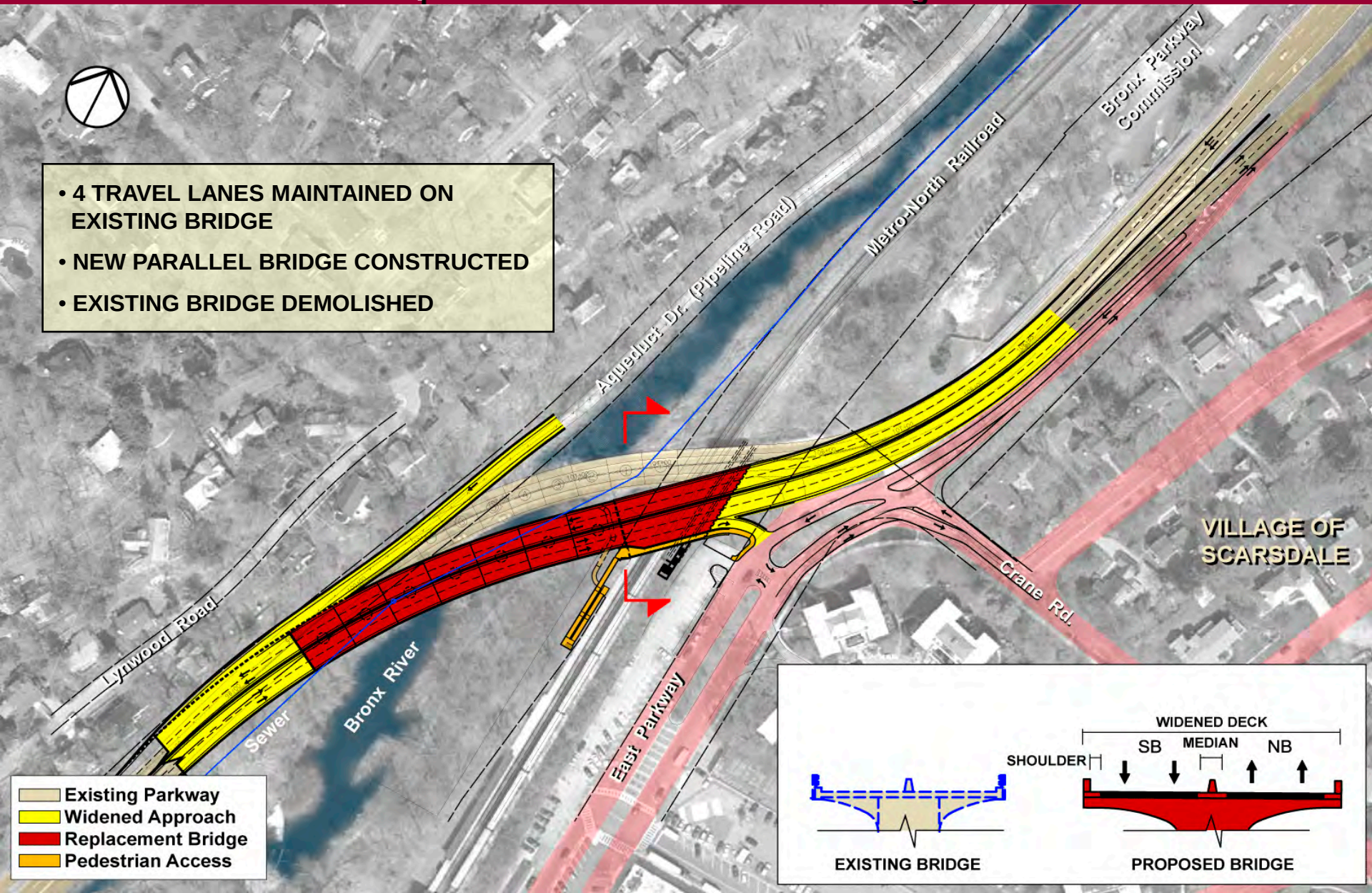
Replacement of the Crane Road Bridge

- Deck Repairs / Rehabilitation (2007 – 2009)
- Temporary Repairs to Maintain Traffic
- Short Term Lane Closures
- Costly

Preferred Alternative

Preferred Alternative – Concept Plan

Replacement of the Crane Road Bridge



Preferred Alternative

Replacement of the Crane Road Bridge

- Eliminates Structural Deficiencies in the Bridges
- Improves Traffic Operation and Safety Deficiencies
- Maintains Traffic on Parkway
- Enhances Pedestrian Access to BRPR & SB Metro-North Train Platform
- Construction Duration – 34 Months
- Construction Cost - $39,425,000

Rendering – Elevation View

Replacement of the Crane Road Bridge

Rendering – Elevation View

Replacement of the Crane Road Bridge

Design & Construction Schedule

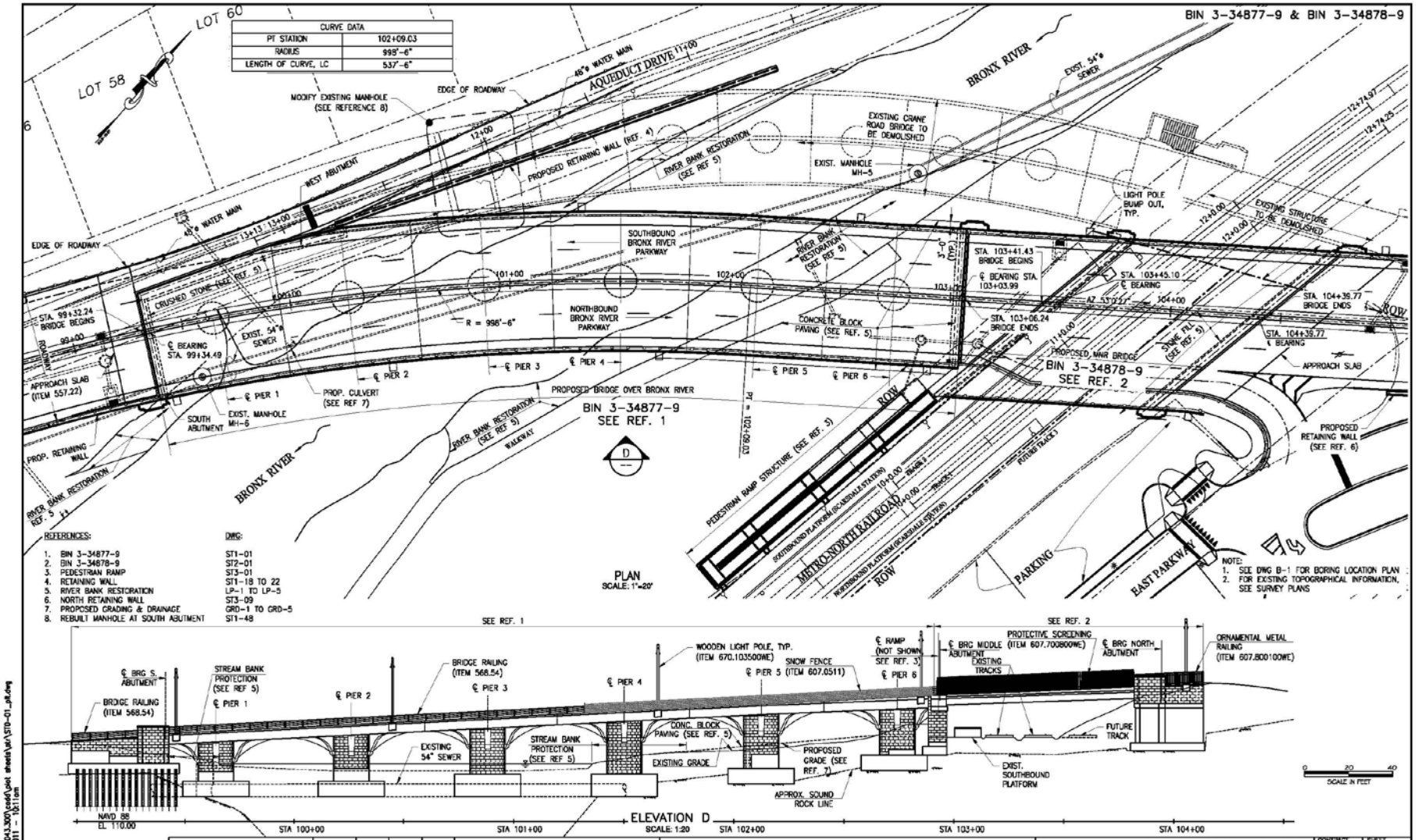
Replacement of the Crane Road Bridge

- Final Design Commenced – February 2010
- Plans Submitted to NYSDOT for Approval – Aug 2011
- Advertisement – November 2011
- Bids Received – January 2012
- Contract Award – April 2012
- Construction Start – May 2012
  - Construction Duration – 34 Months
- Construction Completion – February 2014

Next Steps

Plan and Elevation

Replacement of the Crane Road Bridge



Construction Schedule

Replacement of the Crane Road Bridge

- Stage 1 – 10 Months
  - Major Activities
    - Construct Piers 4, 5 & 6 (& Superstructure) of Mushroom Bridge & Construct Southern ½ of Railroad Bridge
  - Ramp Closures
    - Pipeline Rd Entrance to SB BRP Closed
  - BRP
    - 2 lanes NB & 2 Lanes SB

Construction Schedule

Replacement of the Crane Road Bridge

- Stage 2 – 6 Months
  - Major Activities
    - Construct Piers 2 & 3 (& Superstructure) of Mushroom Bridge
  - Ramp Closures
    - Pipeline Rd Entrance to SB BRP Closed
    - NB BRP Exit to Crane Road Closed
  - SB BRP Exit to Crane Road Closed
  - BRP
    - 1 lane NB (no signal) & 2 Lanes SB

Construction Schedule

Replacement of the Crane Road Bridge

- Stage 3 – 6 Months
  - Major Activities
    - Construct Pier 1 (& NB ½ of Superstructure) of Mushroom Bridge
  - Ramp Closures
    - Pipeline Rd Entrance to SB BRP Closed
    - NB BRP Exit to Crane Road Closed
    - SB BRP Exit to Crane Road Closed
  - BRP
    - 1 lane NB (no signal) & 1 Lane SB

Construction Schedule

Replacement of the Crane Road Bridge

- Stage 4 – 12 Months
  - Major Activities
    - Complete Mushroom Bridge, Demolish Existing Bridges, Construct Northern ½ of Railroad Bridge
  - Ramp Closures
    - Pipeline Rd Entrance to SB BRP Closed
    - NB BRP Exit to Crane Road Closed
    - SB BRP Exit to Crane Road Closed
  - BRP
    - 1 lane NB (no signal) & 1 Lane SB

Construction Schedule

Replacement of the Crane Road Bridge

- Detours
  - Limited BRP Midday Closures - 10 AM to 2 PM
    - Harney Rd to Crane Rd
      - via Scarsdale Ave & East Parkway
      - One direction at a time (police control at key points)
  - Night & Weekend BRP Closures
    - 10 PM Friday to 6 AM Monday
    - Via Sprain Brook Parkway & Rt. 100 to County Center
    - One Direction or Both Directions may be closed