METRO Green Line Extension: Virtual Town Hall
City of Hopkins

Nkongo Cigolo
March 22, 2022
Today’s topics

- Project Overview
- Project Update
- 2021 Construction Recap
- 2022 Construction Highlights
- Systems Overview
- Communications & Outreach
Project Overview
METRO Green Line Extension

- Extends the Green Line with 14.5 miles of new LRT
- 16 new stations
- One seat ride from Eden Prairie to Downtown St. Paul
- Direct service to Downtown Minneapolis, U of M, stadiums
- Connections to rail and bus routes
- Downtown Minneapolis to Eden Prairie: ~35 minutes
METRO Green Line Extension Scope

- 16 new stations
- 44 structures
  - 29 new bridges: LRT, pedestrian, roadway, freight
  - 7 existing bridges with modifications
  - 6 pedestrian tunnels
  - 2 cut and cover tunnels:
    - TH 62 582 ft., Kenilworth 2,236 ft.
- 15 at-grade LRT crossings
  - Includes 5 shared crossings w/freight rail
- 127 retaining walls
- Track: ~182,000 TF
- 7.8 mi shared LRT and freight rail corridor
Project Update
Civil construction challenges: Key issues

• Corridor protection wall
  - Added to the civil construction contract by change order
  - Adds significant time to the construction schedule in Minneapolis

• Secant pile (retaining) wall
  - Unforeseen soil conditions (settling during initial tunnel construction) necessitated an alternative construction method
  - This was a major change that sets the overall completion of civil construction due to complexity of construction involved

• Eden Prairie Town Center Station
  - Added to the civil construction contract by change order
  - These issues have resulted in additional time and costs for the Project
Civil construction schedule and cost

Original civil construction schedule & cost + New civil construction agreement & change orders = Revised civil construction schedule and costs

Additional 34 months
Revised project schedule and cost process: Current step

- Taken together, these issues impact:
  - Other Green Line Extension contracts
  - Staffing, supplies, overhead, etc.
  - Overall project schedule and cost

Revised civil construction schedule and cost

Revised systems schedule and cost

Revised supporting contracts, testing schedule and cost

= Revised project opening day and cost
Revised project schedule and cost process

- Estimated project cost: $2.65B - $2.75B
- Revised costs will be known when all agreements are finalized
- Project opening day: 2027
Project budget

• The Green Line Extension has undergone cost cutting measures already, we are building a well-constructed line that meets the needs of our communities
• With the project 60% complete meaningful reductions are not available
• Additional funding will be needed to complete the project
  ▪ We are working with partners to identity available funding solutions
  ▪ We will not be asking city partners to contribute more
  ▪ Stopping the project would be more costly
How Do Costs Compare?

- Compared to our peer group of metropolitan areas including Seattle, Portland, and Houston, our costs are currently at or below their similar projects
  - Previous Green Line Extension: ~$152 million per mile
  - Revised Green Line Extension: $180 million to $190 million per mile
  - Peer projects: between $200 million and $500 million per mile
## National Comparisons

<table>
<thead>
<tr>
<th>LRT Project</th>
<th>Length in Miles</th>
<th>Number of Stations</th>
<th>Cost Per Mile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twin Cities METRO Green Line Extension</td>
<td>14.5</td>
<td>16</td>
<td>$180 - $190 million</td>
</tr>
<tr>
<td>Pittsburgh: North Shore</td>
<td>1.2</td>
<td>3</td>
<td>$560 million</td>
</tr>
<tr>
<td>Seattle: U-Link</td>
<td>3.2</td>
<td>2</td>
<td>$511 million</td>
</tr>
<tr>
<td>Seattle: East Line</td>
<td>13.9</td>
<td>10</td>
<td>$259 million</td>
</tr>
<tr>
<td>Portland: Orange Line</td>
<td>7.3</td>
<td>10</td>
<td>$243 million</td>
</tr>
<tr>
<td>Los Angeles: Expo Line Phase 2</td>
<td>6.6</td>
<td>7</td>
<td>$225 million</td>
</tr>
<tr>
<td>Houston: Green Line</td>
<td>3.2</td>
<td>7</td>
<td>$223 million</td>
</tr>
</tbody>
</table>

Source: Eno Center for Transportation, “A Blueprint for Building Transit Better”
$2+ Billion in Permitted & Planned Community Development

Elevate At SouthWest Station, Eden Prairie

The Moline at Downtown Hopkins Station

Minnetonka Station at Opus Station

Beltline Station Development, St. Louis Park
Disadvantaged Business Enterprise

<table>
<thead>
<tr>
<th>Construction Contract Description</th>
<th>DBE Billed to Date</th>
<th>DBE Percentage Achieved*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil: 16%</td>
<td>$139.0 Million</td>
<td>21.0%</td>
</tr>
<tr>
<td>Systems: 12%</td>
<td>$11.5 Million</td>
<td>16.2%</td>
</tr>
<tr>
<td>Franklin OMF: 15%</td>
<td>$7.6 Million</td>
<td>18.9%</td>
</tr>
<tr>
<td>OVERALL ACHIEVEMENT: 15%</td>
<td>$163.4 Million</td>
<td>20.3%</td>
</tr>
</tbody>
</table>

*As of December 31, 2021
Green Line Extension = Statewide Jobs

$53,170,758 IN PAY GOING TO 65 of the 87 MINNESOTA COUNTIES SO FAR

*As of July 2021
Statewide economic benefits

- Putting people to work:
  - More than 1.8 million hours worked
  - Paychecks for Minnesotans worth more than $53.1 million and growing
  - Employing folks from 75% of counties statewide
  - $134 million billed by Disadvantage and Business Enterprise companies (20.9%) for civil construction activities, exceeding the goal of 16%
  - Project will support 7,500 construction and construction related jobs and $350 million in payroll to be reinvested in communities throughout the Twin Cities and the state
2021 Construction Recap
Accomplished by end of 2021: LRT construction sequencing

- **Utilities**
  - Excavation
  - Relocation / installation

- **Site Prep**
  - Clear buildings
  - Establish work zones, detours

- **Structures, track, stations**
  - Track beds
  - Track
  - Buildings
  - Roadwork
  - Trails

- **Systems**
  - Overhead catenary
  - Safety & security
  - Ticket vending

- **Testing**
  - Safety
  - Comms
  - Operator training

- **Outreach & Communications**

- **Done!**
- **Complete**
- **Prior to revenue service**

- **60% Complete**
- **~2% Complete**

- **Done!**
Construction highlights: 2021

• Civil construction: 60% complete
• Under construction:
  ▪ 25 bridges completed or underway out of 29
  ▪ 8 tunnels underway out of 8
  ▪ 114 retaining walls completed or under construction out of 131
• 95% of 946 private utilities completed
• 75% of nearly 1,300 public utilities completed
• Completed all 15 building demolitions
• Systems contractor mobilized and in design and procurement
• Franklin Operation & Maintenance facility modifications are nearly complete
• 26 of 27 Light Rail Vehicles delivered
LRT stations underway

• 11 stations underway of 16
  ▪ When complete will allow a stress-free commute from Eden Prairie to downtown Minneapolis
    – Consistent commute time, unimpacted by traffic
  ▪ Improved connections to regional destinations such as Minneapolis Grand Rounds, Methodist Hospital, Downtown Hopkins, UnitedHealth Group's Optum corporate campus, Eden Prairie Center
Shady Oak Station Park and Ride

- The Project Office is working with City staff to optimize surface parking at the station area
- Goals include:
  - Meet Project parking demand
  - Maximize development opportunity
Beam Placement at Minnetonka-Hopkins LRT Bridge
Minnetonka-Hopkins LRT Bridge
Shady Oak Station
Roadway Reconstruction – 8th Avenue South
Track Work – West of 8th Avenue South
Track Work – East of 8th Avenue South
Downtown Hopkins Station
Excelsior Boulevard LRT Bridge
Excelsior Boulevard LRT Bridge
Excelsior Boulevard LRT Bridge
Regional Trail at Blake Road Station
Regional Trail at Blake Road Station
2022 Construction Highlights
2022 Hopkins Construction Activity Map
Hopkins: 2022 Construction Highlights

• Stations
  ▪ Shady Oak Station: advance structure, track and guideway
  ▪ Downtown Hopkins Station Area: advance Civic Plaza
  ▪ Blake Road Station Area: advance utility, trail underpass, retaining walls, begin Pierce Avenue access road construction

• Bridges
  ▪ Minnetonka-Hopkins LRT bridge: advance deck work
  ▪ Excelsior Boulevard LRT bridge: advance construction over roadway

• Traffic Impacts
  ▪ Excelsior Boulevard: closure for LRT bridge work over eastbound traffic lanes from spring through fall
  ▪ Blake Road: short-term closure(s) for freight and LRT rail crossing

Shady Oak Station
Hopkins: 2022 Construction Highlights

• Trackwork
  ▪ Advance freight rail shift between east of Blake Road and east of Excelsior Boulevard

• Systems (Electrical) Work
  ▪ Begin Traction Power Substation construction
  ▪ Begin signal and Overhead Catenary equipment installation between 11th Avenue South and the Depot

• Completion Milestones
  ▪ Open the Minnesota River Bluff trail between 11th Avenue South and the Depot this spring
Systems Contract Work
Systems Contractor

- Aldridge Parsons Joint Venture (APJV)
- Project Team Management - 25
- Project Craft Workers - 40-50
- Subcontractors - 25
Foundation work for Traction Power Substation (TPSS)
Finished TPSS Station
Note location if possible
Davies, David, 2022-03-07T20:03:41.035
Inside a TPSS Station
Note location if possible
Davies, David, 2022-03-07T20:03:41.035
Communications and Outreach
2021 Communications

• Construction updates: 16,600+ subscribers; 46% open rate

• Hotline: 23 calls from Hopkins residents
  ▪ 612-373-3933

• Hundreds more non-hotline calls and emails from community members to outreach staff
  ▪ Email: nkongo.cigolo@metrotransit.org

• Construction Information Workgroup meetings: 4

West Metro Home Remodeling Fair, Feb. 27
Is there a photo of Nkongo in action from 2021 to put on this slide?

Davies, David, 2022-02-23T22:25:57.870
Upcoming Community Outreach

✓ Hopkins Virtual Town Hall: March 22, 2022, 6-7pm
  • Public construction tours
    ▪ Running spring, summer, fall as weather allows
    ▪ Efforts to connect with schools and youth groups
    ▪ Virtual tours
  • Pop-up events
  • Continued weekly/bi-weekly construction updates
Add a bullet for coordination on historic district designation

Davies, David, 2022-02-23T22:29:12.363
MORE INFORMATION

Website: GreenLineExt.org
Email: swlrt@metrotransit.org
Twitter: @GreenLineExtMN
Instagram: @GreenLineExtMN