METRO Green Line Extension: Virtual Town Hall City of St. Louis Park

Nkongo Cigolo
March 14, 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
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 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 identify 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><strong>OVERALL ACHIEVEMENT: 15%</strong></td>
<td><strong>$163.4 Million</strong></td>
<td><strong>20.3%</strong></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
LRT Construction Sequencing and Status

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

Initiated Prior to revenue service

✓ Done!

60% Complete
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
Minnehaha Creek LRT Bridge
Louisiana Avenue LRT Bridge
Louisiana Avenue Station Pedestrian Tunnel
Southerly Connector – Louisiana Station Area
Southerly Connector – Louisiana Station Area
Wooddale Avenue Station
TH 100 LRT Bridge
Beltline Boulevard Station
2022 Construction Overview
2022 St. Louis Park Construction Activity Map
2022 St. Louis Park Piling Activity Map

SWLRT RETAINING WALLS LOUISIANA STATION AREA

- Retaining Wall XXXX: Work is substantially complete
- Retaining Wall XXXX: Work is in progress
- XXXX: Estimated dates of work with potential vibration

- Retaining Wall E209
  - Storm Sewer ST-6304
  - Install sheets mid-March to early April

- Retaining Wall E208
  - Expect pile driving late February to mid-April

- Retaining Wall E207
- Retaining Wall E214
- Retaining Wall E215
- Retaining Wall E216
- Retaining Wall E217
- Retaining Wall E218
- Retaining Wall E230

- Block landscape wall
  - Expect sheet pile installation no sooner than 2023

Indeko Plastics Corporation

T Metro Green Line EXTENSION
St. Louis Park: 2022 Construction Highlights

• Stations
  ▪ Louisiana Avenue Station: advance station, guideway and trackwork
  ▪ Wooddale Avenue Station: advance station, guideway and trackwork
  ▪ Beltline Boulevard Station: advance station, guideway and trackwork

• Bridges
  ▪ Minnehaha Creek LRT bridge: advance follow-on work
  ▪ Louisiana Avenue LRT bridge: set beams, advance follow-on work
  ▪ Southerly Connector: pile driving, advance retaining walls
St. Louis Park: 2022 Construction Highlights

• Traffic Impacts
  ▪ Louisiana Avenue: periodic short-term closures for road reconstruction and LRT bridge work
  ▪ Wooddale Avenue: periodic short-term closures for LRT trackwork across intersection
  ▪ Beltline Boulevard: periodic short-term closures for LRT trackwork across intersection

• Systems (Electrical) Work
  ▪ Begin TPSS construction

Retaining Wall Construction at Louisiana Avenue LRT Bridge
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
Inside a TPSS Station
Communications and Outreach
2021 Communications

• Construction updates: 16,600+ subscribers; 46% open rate
• Hotline: 17 calls from “St. Louis Park” 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
• Public Walking Tours: 2
Upcoming Community Outreach

• 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

Louisiana Ave in St. Louis Park

Prairie Center Drive in Eden Prairie
MORE INFORMATION

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