METRO Green Line Extension: Virtual Town Hall
City of Eden Prairie

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March 10, 2022
Today’s topics

- Project Overview
- Project Update
- 2021 Construction Recap
- 2022 Construction Highlights
- Systems Contract Work
- Safety and Security
- Communications & Outreach
Project Overview
METRO Green Line Extension

- 14.5 miles
- 16 stations
- Single seat trips to downtown Minneapolis, U of M, St. Paul
- Connections to Airport and Mall of America via Blue Line
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 cost and schedule

Original civil construction schedule & cost

+ New civil construction agreement & change orders

= Revised civil construction schedule and costs
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
Project costs & schedule

- Revised project costs will be known when all agreements are finalized
- Project opening day in 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>Pittsburg: 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>$134.2 Million</td>
<td>20.9%</td>
</tr>
<tr>
<td>Systems: 12%</td>
<td>$10.9 Million</td>
<td>16%</td>
</tr>
<tr>
<td>Franklin OMF: 15%</td>
<td>$7.5 Million</td>
<td>19.1%</td>
</tr>
<tr>
<td>OVERALL ACHIEVEMENT: 15%</td>
<td>$152.8 Million</td>
<td>20.4%</td>
</tr>
</tbody>
</table>

*As of November 30, 2021
Green Line Extension = Statewide Jobs

$531,70,758
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!
  - Done!
  - 60% Complete
  - ~2% Complete
  - Prior to revenue service

Prior to revenue service
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
SouthWest Station

Looking east: construction of the parking ramp, station & waiting area

Looking east: pile supports for bus loop
SouthWest Station
Prairie Center Drive LRT Bridge
Prairie Center Drive LRT Bridge
Prairie Center Drive LRT Bridge
Eden Prairie Town Center Station
Eden Prairie Town Center Station
Town Center Place Road
Valley View Road LRT Bridge
Golden Triangle Station
Golden Triangle Station
TH212/Shady Oak Road LRT Bridge
City West Station
TH 62 LRT Tunnel
TH 62 LRT Tunnel
2022 Construction Highlights
2022 Eden Prairie Construction Activity Map
Eden Prairie: 2022 Construction Highlights

• Stations
  ▪ Southwest Station: finish piling, advance station/parking ramp
  ▪ Town Center Station: advance station construction, fixtures, track
  ▪ Golden Triangle Station: advance station construction, fixtures, track
  ▪ City West Station: advance station construction, fixtures, track

• Bridges
  ▪ Prairie Center Drive LRT bridge: deck/track work, finishing details
  ▪ I-494 LRT bridge: deck/track work, finishing details
  ▪ Valley View Road LRT bridge: deck/track work, finishing details
  ▪ Nine Mile Creek LRT bridge: deck/track work, finishing details
  ▪ Highway 212/Shady Oak Rd bridge: deck/track work, finishing details

• Trackwork
  ▪ Trackwork will continue between Valley View Bridge and City West Station
Eden Prairie: 2022 Construction Highlights

• Traffic Impacts
  • Eastbound Highway 212 off-ramp to Prairie Center Drive will be closed for 4-8 weeks (summer)
  • West 70th Street will be closed to install track infrastructure (summer)
    ▪ WB Hwy 212 off-ramp to Shady Oak Road will close for the season (spring)
    ▪ LRT track crossings at Technology Drive and Viking Drive intersection with Flying Cloud Drive will experience temporary lane closures to complete trackwork
    ▪ Periodic lane closures on Hwy 212 between Shady Oak Bridge and Hwy 62 to complete overhead bridgework
Eden Prairie: 2022 Construction Highlights

• Systems (Electrical) Work
  ▪ Systems contractor will continue constructing foundations for Traction Power Substations (TPSS)

• Completion Milestones
  ▪ The Prairie Center Drive, Valley View Road, Nine Mile and Shady Oak-212 LRT bridges will be substantially completed this year
  ▪ The relocation of SouthWest Transit to the permanent indoor waiting area is expected to occur by the end of the year
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 TPPS Stations
Inside a TPSS Station
Safety and Security
GLE Safety and Security

• MTPD is made up of 141 sworn full-time transit police officers, and about 50 part-time officers

• Metro Transit facilities are staffed 24 hours a day and cover security for all bus and rail routes, including transit centers, stations and platforms

• Officers work closely with law enforcement partner agencies in the communities in which we provide service
GLE Safety and Security

• GLE has been working closely with local law enforcement and emergency services to ensure well planned safety and security coordination
• GLE will conduct safety education outreach a year before revenue service begins, including wide-spread communication and community presentations
GLE Safety and Security

During Green Line Extension/GLE design and engineering, the Southwest Project Office added the following measures to ensure passenger, pedestrian and trail user safety:

- Site designs follow Crime Prevention Through Environmental Design (CPTED) best practices
- Safety lighting and cameras on all station platforms, and pathways to station platforms
- Emergency blue light phones on all station platforms
- Safety lighting and cameras at all park and ride lots
- Public address (PA) system at all station platforms
- Accommodations for Metro Transit Police Department parking at stations
- Modified station-waiting areas to better accommodate people in assisted mobility devices
- Designated pedestrian and bike crossings at all at-grade LRT tracks
Communications and Outreach
2021 Communications

- Construction updates: 16,600+ subscribers; 46% open rate
- Hotline: 31 calls from Eden Prairie residents
  - 612-373-3933
- Hundreds more non-hotline calls and emails from community members to outreach staff
  - Email: James.Mockovciak@metrotransit.org
- Construction Information Workgroup meetings: 4
- Public Walking Tours - 3

West Metro Home Remodeling Fair, Feb. 27
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
MORE INFORMATION

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