Project Update

March 10, 2021
Today’s Topics

• Project Update
• 2021 Construction Look Ahead
• Light Rail Vehicles
• DBE & Workforce
• Communications & Outreach
Project Update

Jim Alexander
SWLRT Project Director
METRO Green Line Extension

- 14.5 miles
- 16 stations
- Will provide single seat trips to downtown Minneapolis, U of M and St. Paul
- Connections to the Airport and Mall of America via the Blue Line
2020 Construction Highlights

• Received FFGA on September 14
• Civil construction: 35% complete
• Under construction:
  ▪ 8 stations underway out of 16
  ▪ 23 bridges underway or completed out of 29
  ▪ 5 tunnels underway out of 8
  ▪ 47% of retaining wall work completed: 127 walls total
• 94% of 946 private utilities completed
• 65% of nearly 1,300 public utilities completed
• Completed all 15 building demolitions
• Systems mobilized and in design and procurement
• Franklin O&M Facility modifications: 40% complete
• 11 LRVs delivered
2021 Construction Look Ahead
LRT Construction Sequencing

Utilities
- Excavation
- Relocation / installation

Site Prep
- Clear buildings
- Establish work zones, detours

Structures, Track, Stations
- Bridges, Tunnels, Walls
- Track
- Buildings
- Roads/Trails

Systems
- Overhead catenary
- Safety & security
- Ticket vending

Testing
- Safety
- Communications
- Operator training

Outreach & Communications
Construction Challenges - Key Issues

• Corridor Protection Wall
  ▪ Required per BNSF agreement
  ▪ Required environmental clearance which was completed after civil construction contracting
  ▪ Adding to the Civil Construction Contract by change order

• Secant Wall
  ▪ Unforeseen soil conditions (settling during initial tunnel construction) necessitated an alternative construction method
  ▪ Taking this approach out of an abundance of caution
  ▪ Adding to the Civil Construction Contract by change order

• These elements will impact the project schedule
Corridor Protection Wall

Example of section near Bryn Mawr Meadows
Secant Pile Wall

Secant wall to be constructed on the east side of the tunnel to provide support during construction of the tunnel.
Kenilworth Tunnel Construction

Original Plan

Sheet Pile Walls on each side of tunnel excavation

Modified Plan at Cedar Isles Condominium and Parking Ramp

Sheet Pile Wall

Secant Pile Wall

Sheet Pile Wall in Plan View

Secant Pile Wall in Plan View
Kenilworth Tunnel Construction

Original Plan

Modified Plan at Cedar Isles Condominium and Parking Ramp

Sheet Pile Walls on each side of tunnel

Sheet Pile Wall

Secant Pile Wall
Example of a Secant Pile Wall
Construction Challenges

- Both of these elements are major projects by themselves; when taken together, they have a significant impact to the project’s overall schedule due to their scope and complexity

- Next steps:
  - Corridor Protection Wall
    - Complete change order process
  - Secant Wall
    - Complete change order process
    - Reach agreement on tunnel construction re-sequencing
    - Complete change order process for re-sequencing
  - Update project schedule
    - Reach agreement on schedule
    - Complete change order process
Eden Prairie
Eden Prairie: 2021 Construction Highlights

• Continue SouthWest Station area piling and station/parking ramp construction

• Complete deck work and/or finishing details (piling has concluded):
  ▪ Prairie Center Drive LRT bridge
  ▪ I-494 LRT bridge
  ▪ Valley View Road LRT bridge
  ▪ Nine Mile Creek LRT bridge

• Advance Eden Prairie Town Center Station

• Complete roadway and LRT construction on Flying Cloud Drive
Eden Prairie: 2021 Construction Highlights

- Advance Golden Triangle station
- Advance Shady Oak/Hwy 212 LRT bridge
- Advance retaining walls at City West Station
- Work on the south segment of Highway 62 LRT tunnel
- Install LRT track beginning at the west end
Eden Prairie: 2021 Construction Highlights

Construction of SouthWest Station and parking deck continues through 2021

Periodic lane closures to complete Prairie Cedar Drive bridge

Temporary closure to set bridge beams on Nine Mile Creek at Flying Cloud Drive

Short term closure to set bridge beams across Valley View Road

Completion of bridge in 2022

All civil bridge construction to be completed by end of 2021

Short term closure to set bridge beams across Shady Oak Road and Hwy 212

Phase 3: One lane in each direction on Southbound Flying Cloud Drive. Northbound Flying Cloud Drive is closed.

Phase 4: One lane in each direction on Flying Cloud Drive. Median and inside lanes are closed.

LRT Station
LRT Alignment
Road Closure
Lane Closure
Bridge
Tunnel
Tunnel Construction
Trail/Sidewalk Closure
Pile Driving/Sheeting/Vibration
Building Activities
Shady Oak Road/TH 212 LRT Bridge
TH 62 LRT Tunnel
Minnetonka
Minnetonka: 2021 Construction Highlights

- Continue work at Highway 62 LRT tunnel north segment
- Advance Opus Station
- Complete Smetana Road bridge
- Continue work on Feltl Road bridge
- Advance retaining walls
Minnetonka: 2021 Construction Highlights
Opus Area Retaining Walls
Smetana and Feltl Road Bridges
Hopkins: 2021 Construction Highlights

• Continue work on Minnetonka-Hopkins LRT bridge
• Advance Shady Oak and Downtown Hopkins stations
• Continue LRT bridge construction at Excelsior Boulevard
• Complete regional trail underpass
LRT Bridge over Excelsior Boulevard
St. Louis Park
St. Louis Park: 2021 Construction Highlights

• Shift freight rail to final alignment
  – Blake Road to Wooddale Avenue
• Demo freight bridge and begin LRT bridge over Minnehaha Creek
• Louisiana Avenue Station area
  ▪ Demo freight rail bridge
  ▪ Begin LRT bridge foundations
  ▪ Continue soil correction activity at station area
  ▪ Continue retaining wall work
St. Louis Park: Construction Highlights

• Begin Wooddale Avenue Station construction
• Complete LRT bridge over Highway 100
• Beltline Boulevard Station area
  ▪ Begin station work
  ▪ Complete regional trail bridge
  ▪ Begin roadway work north of station area
  ▪ Continue retaining wall work
St. Louis Park: 2021 Construction Highlights

- Roadway impacts to demolish old freight bridge
- Pedestrian underpass construction
- Trail and freight bridge construction
- Short term roadway closures anticipated in 2021
- South Cedar Lake Regional Trail is closed

Legend:
- LRT Station
- LRT Alignment
- Bridge
- Freight Track Work
- Trail Tunnel
- Trail Bridge
- Pile Driving/Sheeting/Vibration Activity
- Building Activities
Beltline Boulevard Regional Trail Bridge
Minneapolis
Minneapolis: 2021 Construction Highlights

- Begin West Lake Street station construction
- Continue freight rail improvement work in Kenilworth corridor
- Advance Kenilworth LRT tunnel excavation and begin concrete work
- Advance Cedar Lake Channel LRT bridge
- Advance 21st Street station
- Begin retaining wall and foundation work at Bryn Mawr station
- Begin corridor protection wall
- Advance Glenwood/Royalston bridges and retaining walls
- Advance North 5th Avenue/North 7th Street LRT bridge
Minneapolis: 2021 Construction Highlights
Minneapolis: 2021 Construction Highlights
Kenilworth LRT Tunnel Excavation
Glenwood Avenue LRT Bridge
Franklin Operations and Maintenance Facility Modifications
Franklin O&M Facility Modifications
Franklin O&M Facility Modifications

- Wash/Sanding Bay Expansion
- Maintenance and Wash/Sanding Bay Expansion, and RCC Addition
Maintenance Bays: Wall Construction
West Runner: OCS Foundations
Light Rail Vehicles
Light Rail Vehicles: 13 Vehicles Delivered
Type II Design

Type III Design
Light Rail Vehicles

- LRV 301
DBE and Workforce Update

Jon Tao
Office of Equal Opportunity
## DBE Achievement as of Jan. 31, 2021

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Contract Description</th>
<th>Contract Amount</th>
<th>Contractor Billed to Date</th>
<th>DBE Billed to Date</th>
<th>DBE Date %</th>
<th>As of Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMJV</td>
<td>Civil</td>
<td>$840,066,156</td>
<td>$418,314,385</td>
<td>$84,895,072</td>
<td>20.3%</td>
<td>1/31/21</td>
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<tr>
<td>APJV</td>
<td>Systems</td>
<td>$193,819,580</td>
<td>$47,782,995</td>
<td>$7,455,628</td>
<td>15.6%</td>
<td>1/31/21</td>
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<tr>
<td>LS Black</td>
<td>Franklin O&amp;M Exp.</td>
<td>$38,704,353</td>
<td>$14,880,678</td>
<td>$2,626,223</td>
<td>17.6%</td>
<td>1/31/21</td>
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<tr>
<td>17% Goal</td>
<td>Closed Contracts</td>
<td>$404,992</td>
<td>$404,992</td>
<td>$74,610</td>
<td>18.4%</td>
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</table>

### Summary

<table>
<thead>
<tr>
<th>Contract Amount</th>
<th>Billed to Date</th>
<th>$ DBE to Date</th>
<th>% DBE to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>15% Goal</td>
<td>$1,072,995,081</td>
<td>$481,383,050</td>
<td>$95,051,533</td>
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Civil DBE Participation as of Jan. 31, 2021

*DBE Goal for the Civil Contract is 16%
Systems DBE Participation as of Jan. 31, 2021

*DBE Goal for the Systems Contract is 12%*
Franklin DBE Participation as of Jan. 31, 2021

*DBE Goal for the Franklin Contract is 15%
SWLRT Construction DBE Contracts Disaggregated*

- Total Construction Contracts: $1,071,995,081

<table>
<thead>
<tr>
<th>Ethnic Group</th>
<th>Women</th>
<th>Men</th>
<th>Total</th>
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<tbody>
<tr>
<td>Asian Pacific</td>
<td>$277,743</td>
<td>$40,020,187</td>
<td>$40,297,930</td>
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<tr>
<td>Asian Subcontinent</td>
<td>$0</td>
<td>$1,900,001</td>
<td>$1,900,001</td>
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<tr>
<td>Black</td>
<td>$43,369</td>
<td>$10,519,430</td>
<td>$10,562,798</td>
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<tr>
<td>Hispanic</td>
<td>$715,140</td>
<td>$28,426,050</td>
<td>$29,141,190</td>
</tr>
<tr>
<td>Native American</td>
<td>$3,812,256</td>
<td>$15,610,191</td>
<td>$19,422,447</td>
</tr>
<tr>
<td>White Women</td>
<td>$116,009,551</td>
<td></td>
<td>$116,009,551</td>
</tr>
</tbody>
</table>

*Contract values are as of 1/31/21 and includes: Civil, Systems, Franklin O&M Expansion, & OMF Demo*
SWLRT Construction Contracts Disaggregated*

- Construction Contracts Total: $1,071,995,081
- DBE contracts total: $217,333,918 (20.25%)

*Contract values are as of 1/31/21 and includes: Civil, Systems, Franklin O&M Expansion, and OMF Demolition.
Civil Workforce Participation*

- January 2021: 27,570 hrs
- Civil Construction Total: 1,003,354 hrs

*Based on MDHR Workforce Report for January 2021
People of Color/Indigenous (POCI)
Civil Workforce Participation*

- January 2021: 27,570 hrs
- Hours worked by category:

  - White Men: 21,217 (77%)
  - POCI Men: 4,735 (17%)
  - POCI Women: 402 (1%)
  - White Women: 1,009 (4%)
  - Unspecified: 206 (1%)

*Based on MDHR Workforce Report for January 2021
Civil Workforce Participation Cumulative*

- Total Women hours to date: 83,705 hrs
- Cumulative participation: 8.34%

*Based on MDHR Workforce Reports through January 2021
Civil Workforce Participation Cumulative*

- Total POCI hours to date: 214,128 hrs
- Cumulative participation: 21.34%

*Based on MDHR Workforce Reports through January 2021
Civil Workforce Participation Disaggregated*

PROJECT TO DATE

- Black: 6%
- Asian: 3%
- NonSpec: 0%
- Multi: 2%
- Native Am: 2%
- H/L: 9%
- White: 78%

*Based on MDHR Workforce Reports through January 2021
Civil Workforce Participation Disaggregated*

- Project Total: 1,003,354 hrs
- Total POCI: 214,108 hrs (21.34%)
- Total Women: 83,705 hrs (8.34%)

<table>
<thead>
<tr>
<th>Ethnic/Racial Group</th>
<th>Total Hours Women</th>
<th>Women Percent</th>
<th>Total Hours Men</th>
<th>Men Percent</th>
<th>Total Hours</th>
<th>Total Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian Americans</td>
<td>91</td>
<td>0.01%</td>
<td>33,344</td>
<td>3.32%</td>
<td>33,435</td>
<td>3.33%</td>
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<tr>
<td>Black Americans</td>
<td>11,400</td>
<td>1.14%</td>
<td>44,336</td>
<td>4.42%</td>
<td>55,737</td>
<td>5.56%</td>
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<tr>
<td>Hispanic Americans</td>
<td>1,824</td>
<td>0.18%</td>
<td>89,629</td>
<td>8.93%</td>
<td>91,453</td>
<td>9.11%</td>
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<tr>
<td>Native Americans</td>
<td>7,910</td>
<td>0.79%</td>
<td>11,191</td>
<td>1.12%</td>
<td>19,101</td>
<td>1.9%</td>
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<tr>
<td>Multi-Racial</td>
<td>700</td>
<td>0.07%</td>
<td>13,683</td>
<td>1.36%</td>
<td>14,383</td>
<td>1.43%</td>
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<tr>
<td>White Americans</td>
<td>61,637</td>
<td>6.14%</td>
<td>724,222</td>
<td>72.18%</td>
<td>785,859</td>
<td>78.32%</td>
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<tr>
<td>Not Specified</td>
<td>144</td>
<td>0.01%</td>
<td>3,224</td>
<td>0.32%</td>
<td>3,367</td>
<td>0.34%</td>
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</table>

*People of Color and Indigenous People (POCI) & Women participation from 12/1/18 - 1/31/2021
Franklin O&M Workforce Participation*

- January 2021: 8,549 hrs
- Franklin O&M Facility Construction Total: 36,994 hrs

*Based on MDHR Workforce Report for January 2021
People of Color/Indigenous (POCI)
Franklin O&M Workforce Participation*

- Total POCI hours to date: 8,986 hrs
- Cumulative Participation: 24.29%

*Based on MDHR Workforce Reports through January 2021. Data points are based on monthly participation percentage.
Franklin O&M Workforce Participation*

- Total Women hours to date: 3,401 hrs
- Cumulative participation: 9.19%

*Based on MDHR Workforce Reports through January 2021.
Data points are based on monthly participation percentage.
## Franklin O&M Workforce Disaggregated*

- **Project Total:** 36,994 hrs
- **Total POCI:** 8,986 hrs (24.29%)
- **Total Women:** 3401 hrs (9.19%)  

<table>
<thead>
<tr>
<th>Ethnic/Racial Group</th>
<th>Total Hours Women</th>
<th>Women Percent</th>
<th>Total Hours Men</th>
<th>Men Percent</th>
<th>Total Hours</th>
<th>Total Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian Americans</td>
<td>0</td>
<td>0.00%</td>
<td>1,299</td>
<td>3.51%</td>
<td>1,299</td>
<td>3.51%</td>
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<tr>
<td>Black Americans</td>
<td>1,413</td>
<td>3.82%</td>
<td>768</td>
<td>2.07%</td>
<td>2,181</td>
<td>5.90%</td>
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<tr>
<td>Hispanic Americans</td>
<td>156</td>
<td>0.42%</td>
<td>3,117</td>
<td>8.42%</td>
<td>3,273</td>
<td>8.85%</td>
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<tr>
<td>Native Americans</td>
<td>0</td>
<td>0.00%</td>
<td>968</td>
<td>2.62%</td>
<td>968</td>
<td>2.62%</td>
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<tr>
<td>Multi-Racial</td>
<td>0</td>
<td>0.07%</td>
<td>1,267</td>
<td>3.42%</td>
<td>1,267</td>
<td>3.42%</td>
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<tr>
<td>White Americans</td>
<td>1,832</td>
<td>4.95%</td>
<td>25,385</td>
<td>68.62%</td>
<td>27,217</td>
<td>73.57%</td>
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<tr>
<td>Not Specified</td>
<td>0</td>
<td>0.00%</td>
<td>792</td>
<td>2.14%</td>
<td>3,367</td>
<td>2.14%</td>
</tr>
</tbody>
</table>

*People of Color and Indigenous People (POCI) & Women participation from 6/1/20 - 1/31/2021
Communications & Outreach Update

Sam O’Connell
Sr. Manager, Community Affairs
2020 Construction Communications

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

• 24-hour construction hotline: 270 calls in 2020
  ▪ 612-373-3933

• Hundreds more non-hotline calls and emails from community members to outreach staff
Construction Communications

- Construction Information Workgroups:
  - Eden Prairie: 8 meetings
  - Minnetonka: 7 meetings
  - Hopkins: 4 meetings
  - St. Louis Park: 6 meetings
  - Minneapolis: 9 meetings

- 2021 Highlights:
  - February/March: Virtual community townhalls highlighting 2021 construction activities
  - Expanded use of social media to highlight construction progress
  - Return to in-person events when it is safe to do so
2021 Community Construction Videos

- Eden Prairie
- Minnetonka
- Hopkins
- St. Louis Park
Stay Updated!

Online: SWLRT.org

Twitter: @SouthwestLRT

Flickr: flickr.com/photos/metcouncil/albums

Facebook: @MetropolitanCouncil

Instagram: @southwest_lrt