

SOUTHWEST

Green Line LRT Extension



Business Advisory Committee Meeting

March 25, 2014



Today's Topics

- October 2013 CMC Project Scope and Budget
- Deep Shallow Tunnel under Kenilworth Channel
- Surface Transportation Board Staff Meeting Update
- BAC Recommendation to CMC Discussion
- Downtown Hopkins Station CMAQ Funding Request
- Southwest Station Update



October CMC Project Scope and Budget

SWLRT Project Development Technical Issues

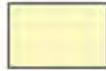
Revision 04: 28 May 2013

Technical Issues:

- 1. Eden Prairie Alignment
- 2. Nine Mile Creek Crossing
- 3. Golden Triangle Station
- 4. Shady Oak Road & TH 212 Crossing
- 5. City West Station & TH 62 Crossing
- 6. Opus Station
- 7. Opus Hill/Minnetonka-Hopkins Bridge
- 8. Shady Oak Station

- 9. PEC West/PEC East Interface Point

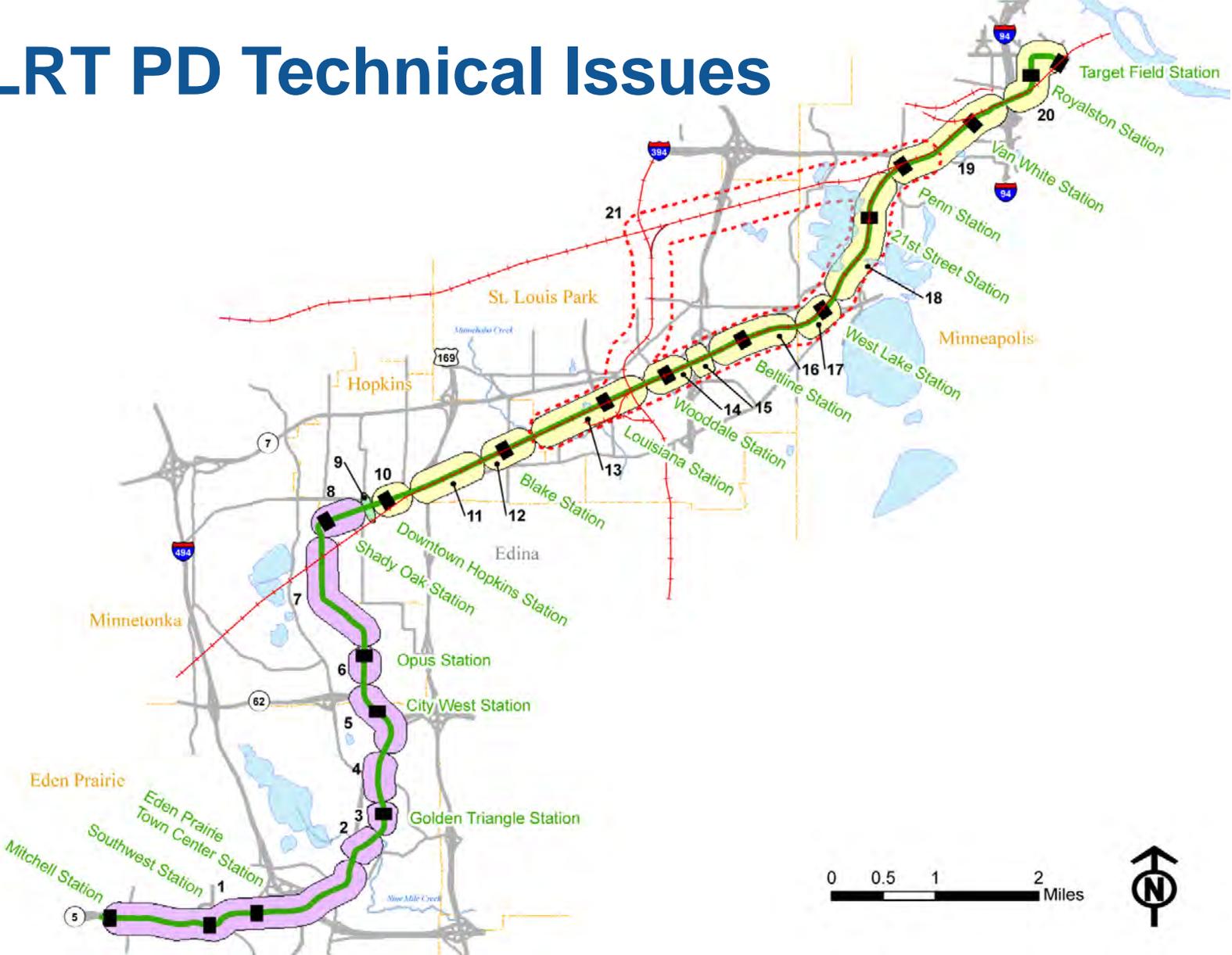
- 10. Downtown Hopkins Station
- 11. Excelsior Blvd. Crossing
- 12. Blake Station
- 13. Louisiana Station
- 14. Wooddale Station
- 15. TH 100
- 16. Beltline Station
- 17. West Lake Station
- 18. Kenilworth Corridor
- 19. Bassett Creek Valley Corridor
- 20. Royalston Station/Interchange Project Coordination
- 21. Freight Rail Co-location/Relocation Alternatives

-  PEC West
-  PEC East
-  Joint PEC West/PEC East

System-wide Technical Issues (not shown):

- 22. Traction Power Substation and Signal Bungalow Locations
- 23. Operation & Maintenance Facility (OMF) Location
- 24. Park & Ride, Kiss & Ride and Bus Layover Locations
- 25. Trails and LRT Interface Coordination

SWLRT PD Technical Issues



Technical Issues: 2-20, 22, 24 and 25

- At its October 9 meeting, the CMC voted to recommend to the Council as presented to the CMC on August 7 and August 28, 2013

Technical Issues: 2013 CMC Actions

- At its September 4 meeting, the CMC voted to recommend to the Council:
 - TI #1: Eden Prairie Alignment: Comp Plan Alignment to Southwest Station
 - TI #21: Removal of the Deep Bore LRT Tunnel option from further consideration
- At its September 11 meeting, the CMC voted to recommend to the Council:
 - TI #23: Hopkins Site 9A for the OMF location
- At its October 9 meeting, the CMC voted to recommend to the Council:
 - TI #21: Shallow LRT tunnels through the Kenilworth Corridor

Project Budget Recommendation

● SWLRT Base Project	\$1.390 B
● Freight Rail	
● Common Elements	\$.090 B
● Kenilworth Shallow LRT Tunnel	\$.160 B
● <u>Scope/Cost Reductions</u>	<u>(\$.087 B)</u>
● SWLRT Adjusted Budget	\$1.553 B*

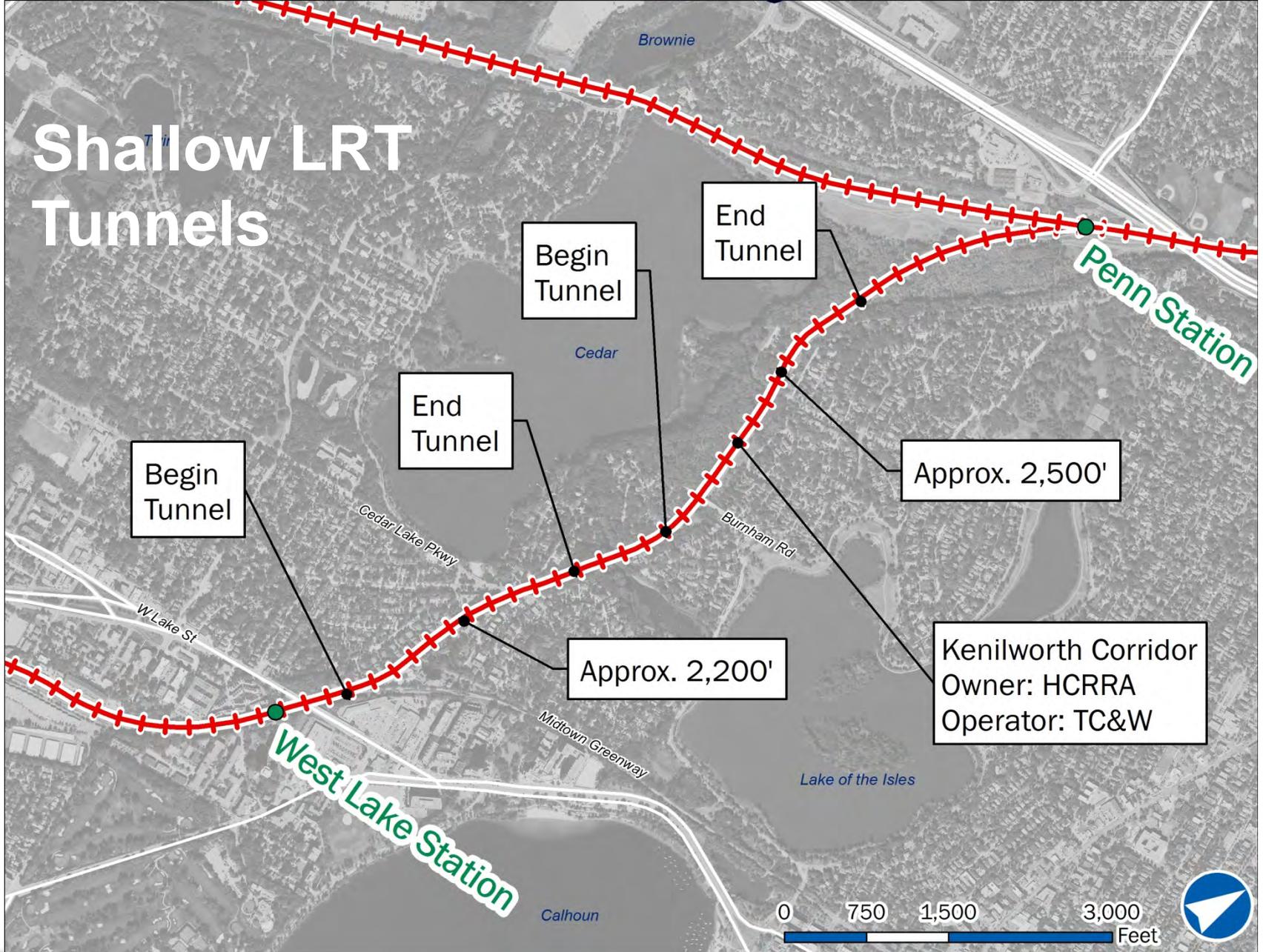
*Includes 27% contingency allowance

Deep Shallow Tunnel under Kenilworth Channel

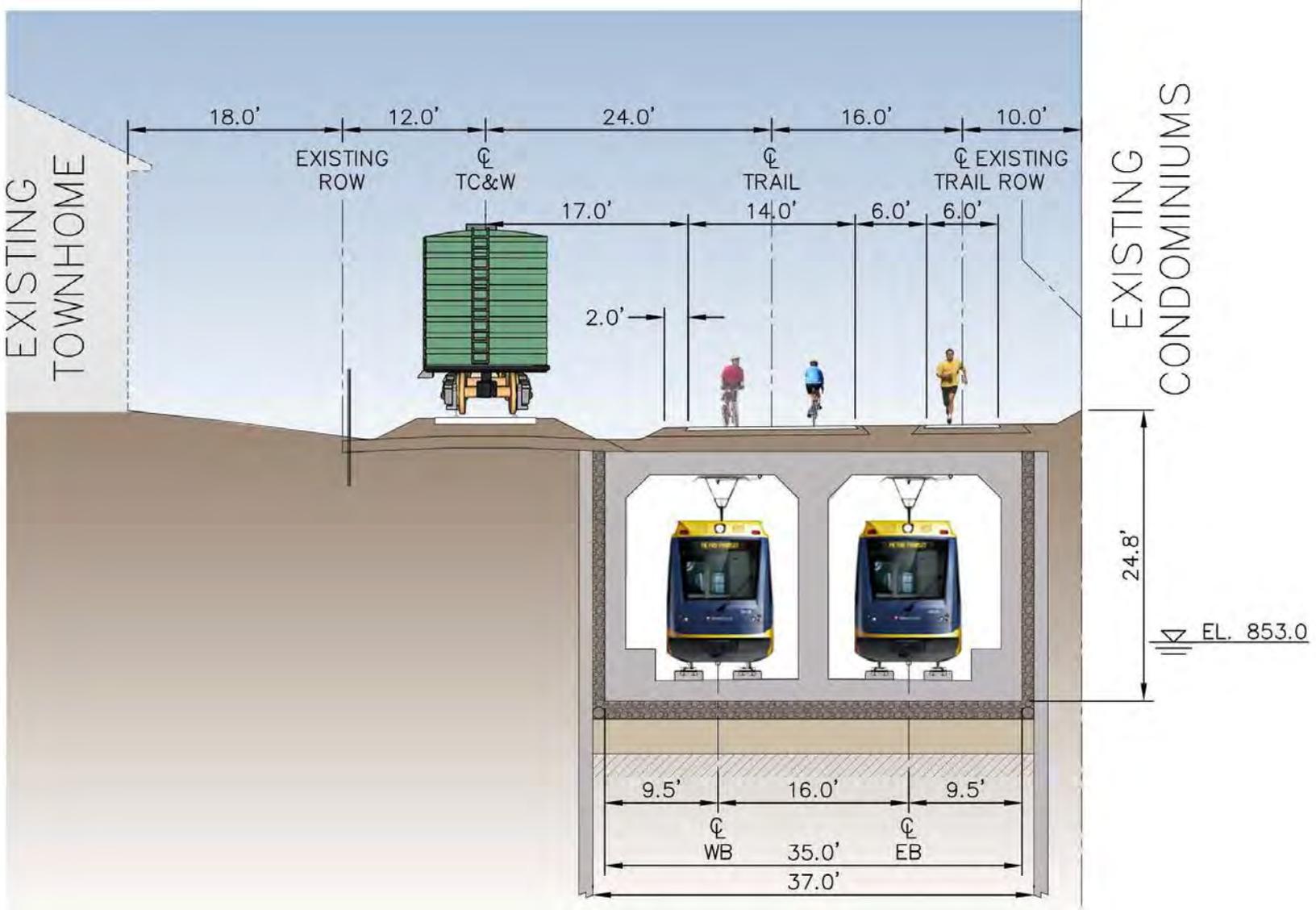
Feb 5, 2014 Minneapolis Park and Recreation Board Resolution

- Requests SPO to conduct a detailed engineering feasibility study and cost comparison of tunneling under the Kenilworth Channel as part of the shallow LRT tunnels option

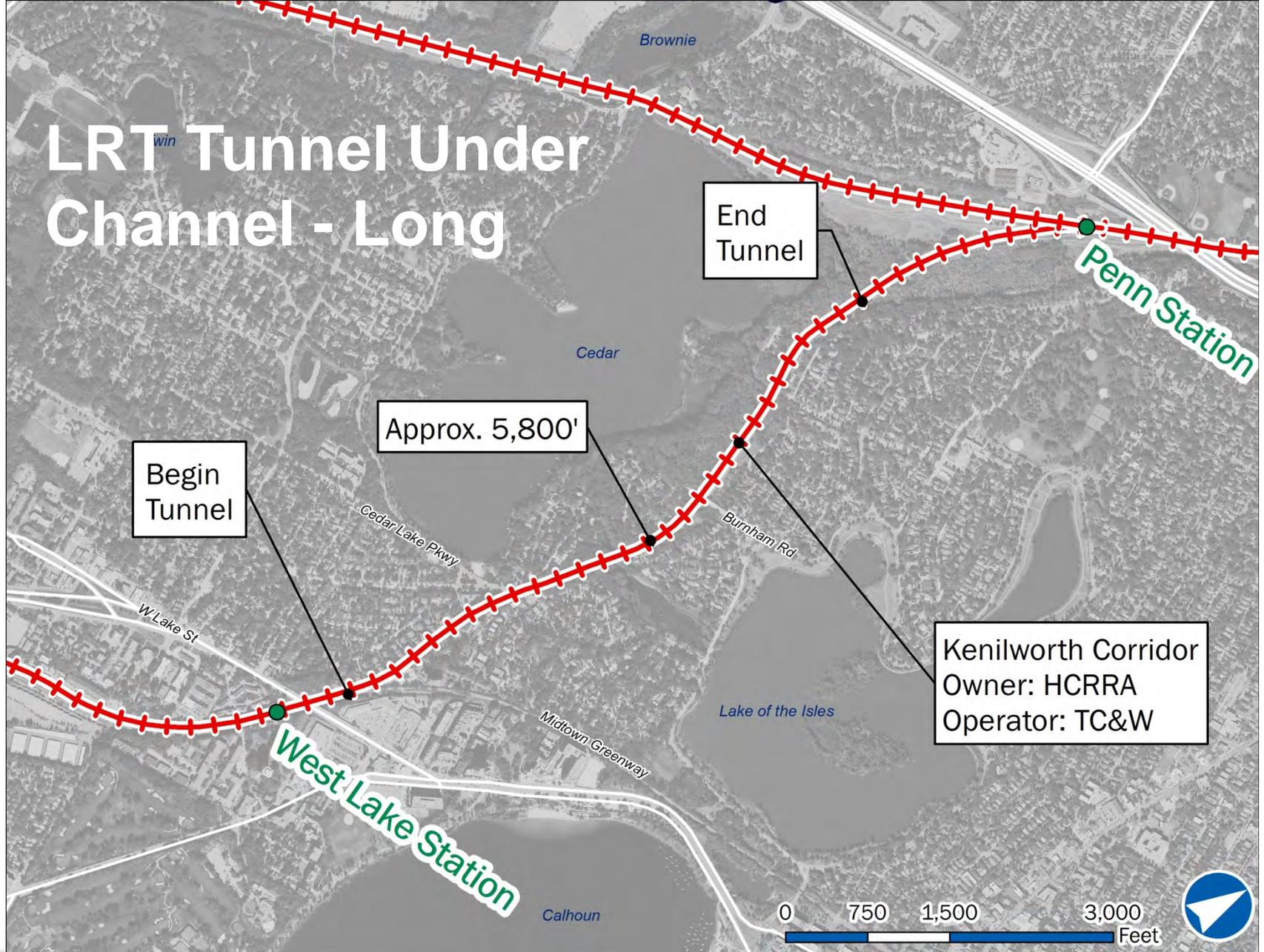
Shallow LRT Tunnels



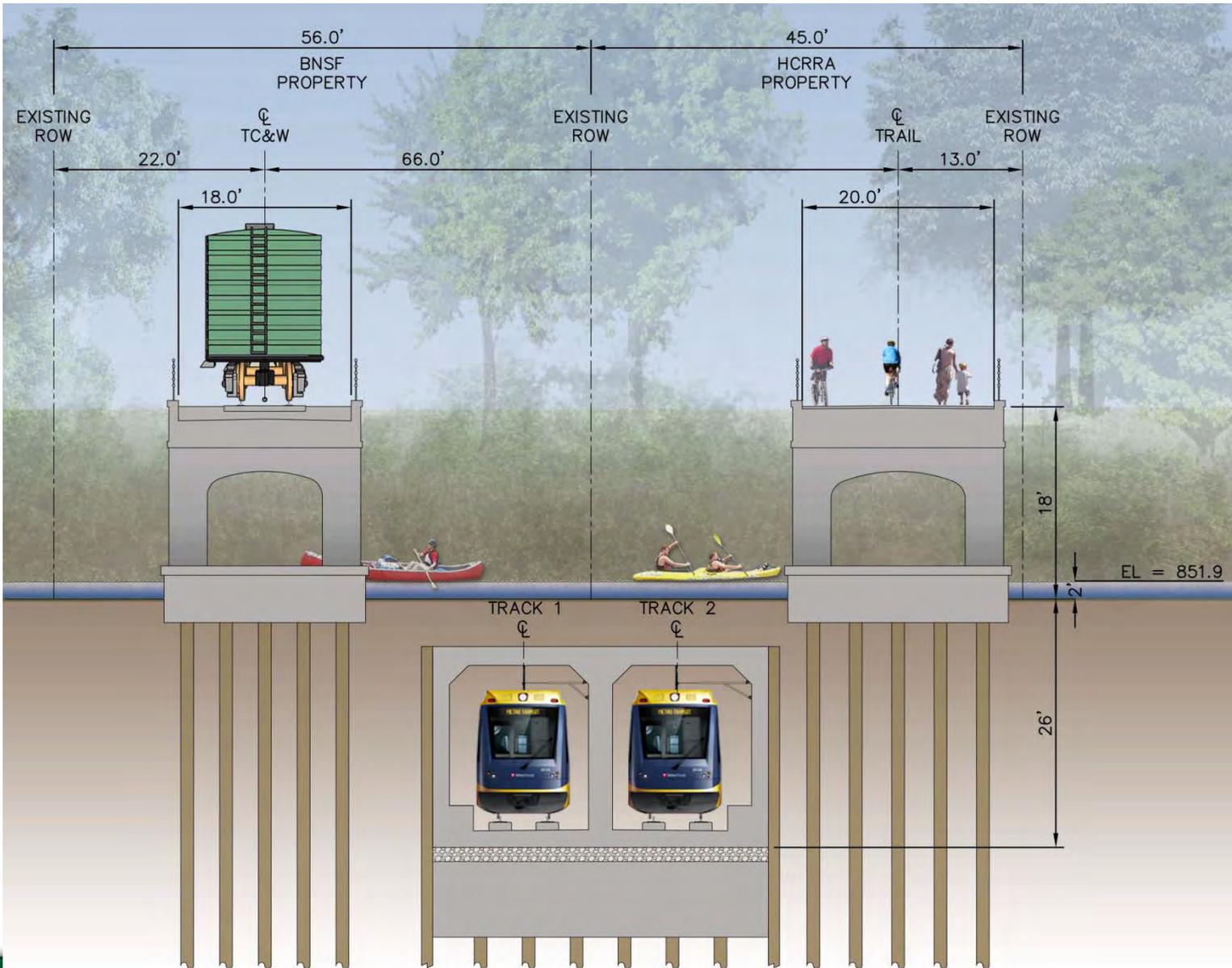
Kenilworth Shallow LRT Tunnel



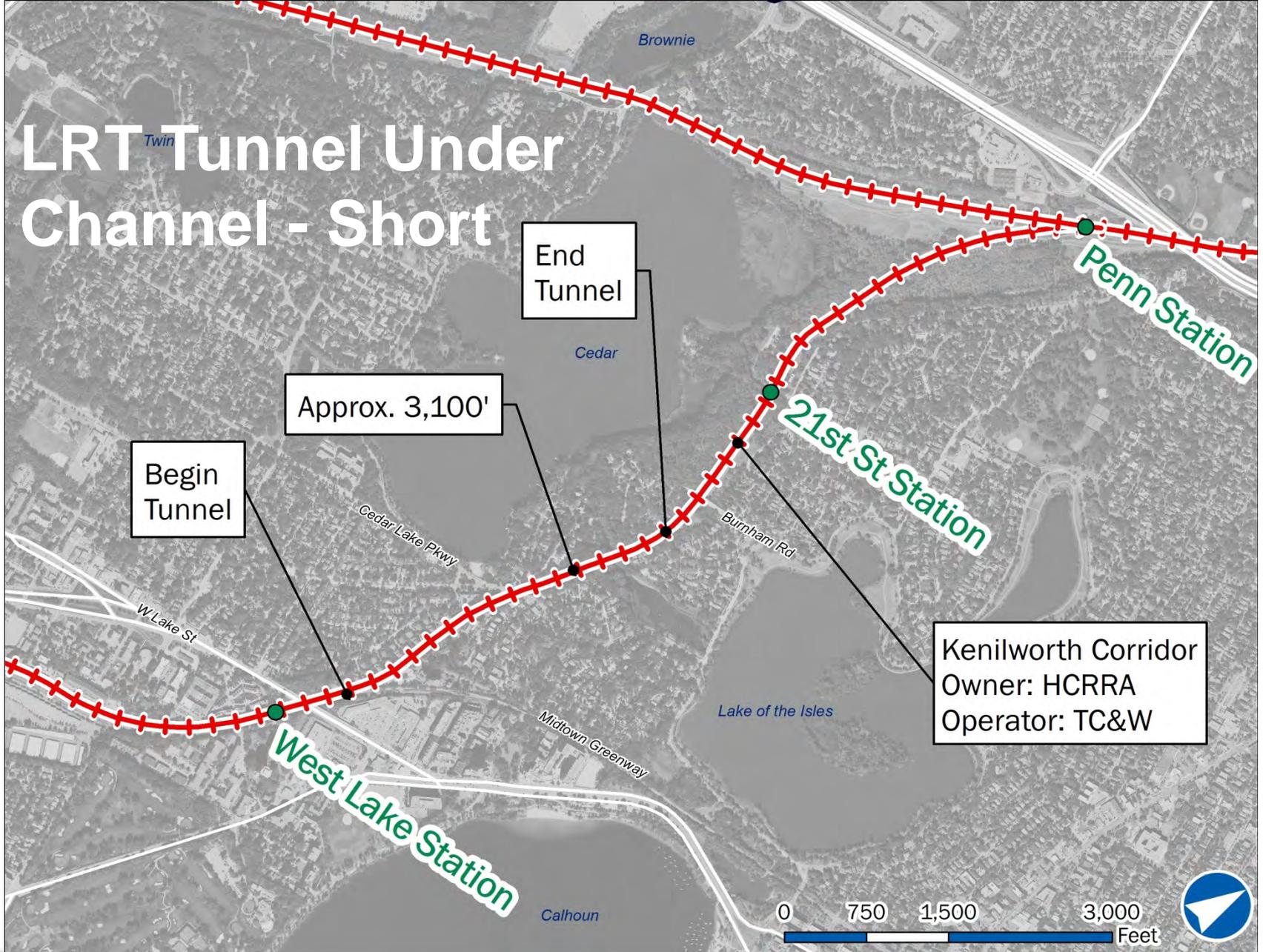
LRT Tunnel Under Channel - Long



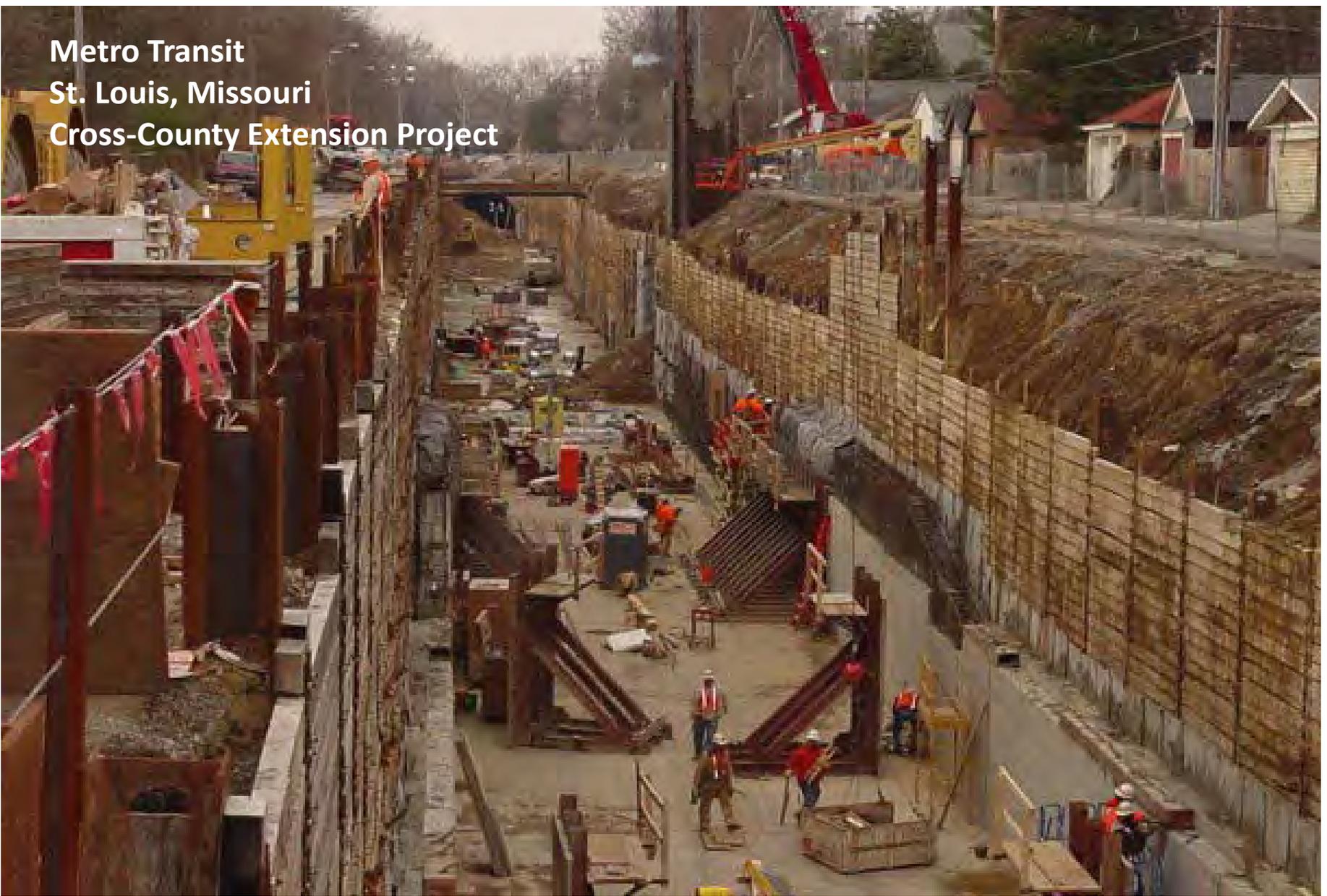
Kenilworth Shallow LRT Tunnel – Under Channel



LRT ^{Twin} Tunnel Under Channel - Short



Metro Transit
St. Louis, Missouri
Cross-County Extension Project



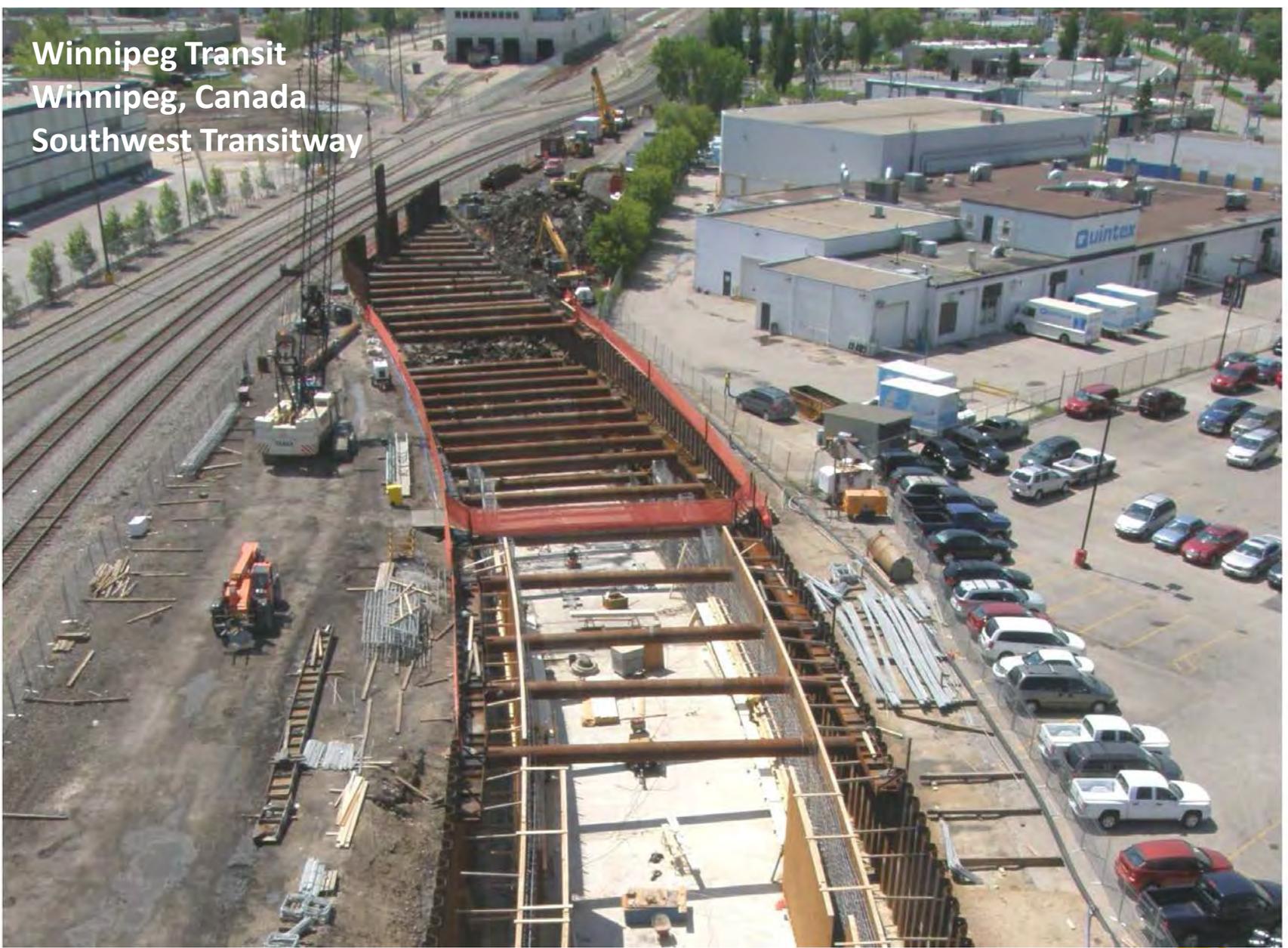
WMATA - Metrorail Blue Line Extension to Largo, Maryland





Wiener Linien (Vienna Lines)
Vienna, Austria
U-Bahn - U1 Extension

Winnipeg Transit
Winnipeg, Canada
Southwest Transitway



Deep Tunnel Under Kenilworth Channel

- Requires extensive retaining walls and bracing to support tunnel excavation
- Access to channel temporarily blocked during summer and winter conditions during construction
- Requires re-vegetation of channel embankments after the tunnel is constructed
- Requires additional one year of construction
- Requires additional cost:
 - Long Tunnel: \$65 - \$85M
 - Shorter Tunnel: \$30 - \$40M

Surface Transportation Board Staff: Meeting Recap

BAC Recommendation to CMC Discussion

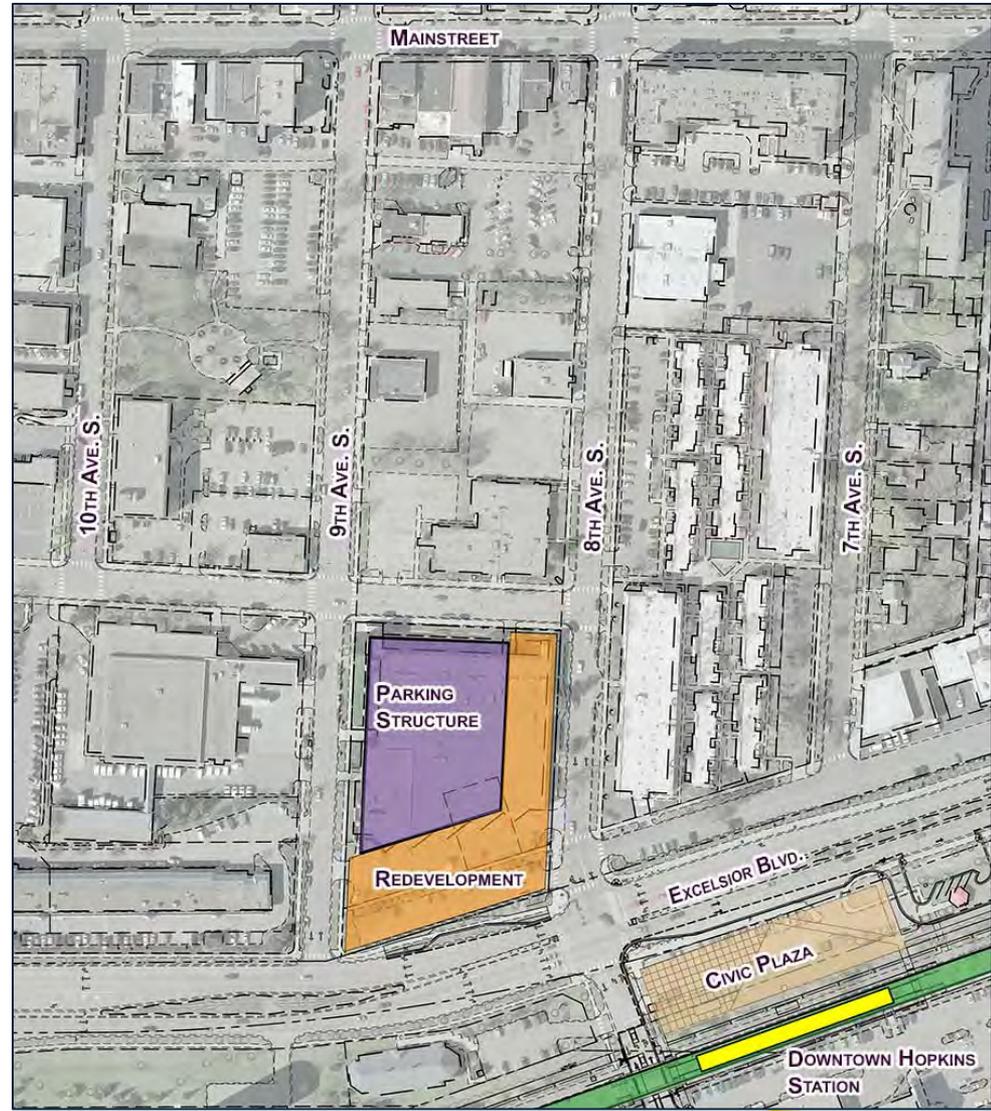
Downtown Hopkins Station CMAQ Funding Request

Hopkins: Downtown Hopkins Station

- Provide additional amenities
 - Landscape and hardscape elements
 - Enhanced bike facilities
- Prioritize additional civic plaza elements as contingency funds are available
- Identify non-project funding to help implement the ARTery project along 8th Ave from the station platform to Mainstreet

Downtown Hopkins Station

- Parking facility incorporates TOD redevelopment opportunities
- Compliments historic Mainstreet district and ARTery plans
- Improves pedestrian and bicycle facilities
- Proposed \$7 M CMAQ grant is matched with \$1.75 M of local funds



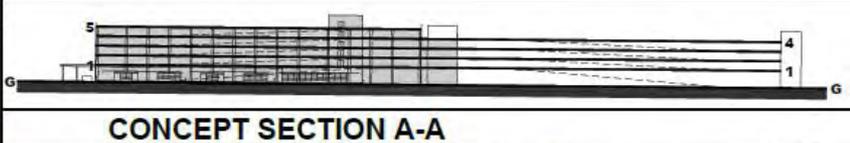
Resolution of Support: Downtown Hopkins Station CMAQ Funding Request

TI #1: Southwest Station Update

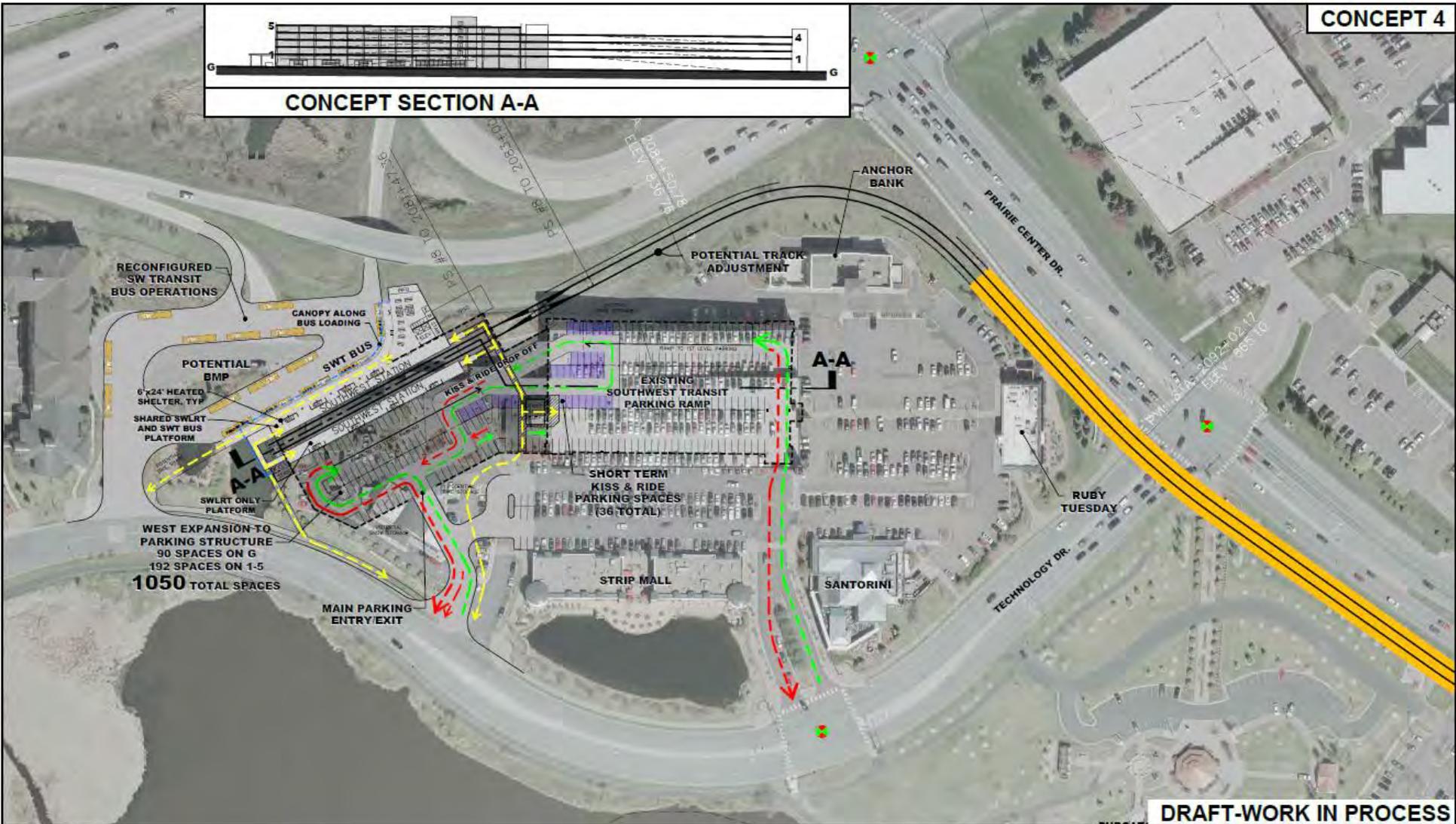
October 9, 2013 CMC Resolution

- Calls on SPO to design SWLRT so as not to preclude a future LRT extension from Southwest Station to Mitchell Road

Southwest Station: Concept #4

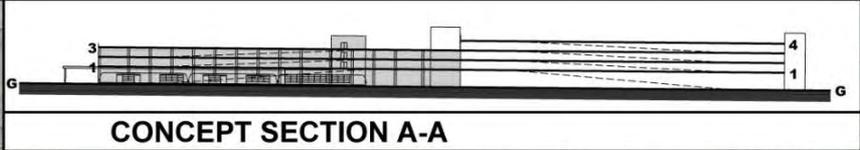


CONCEPT 4

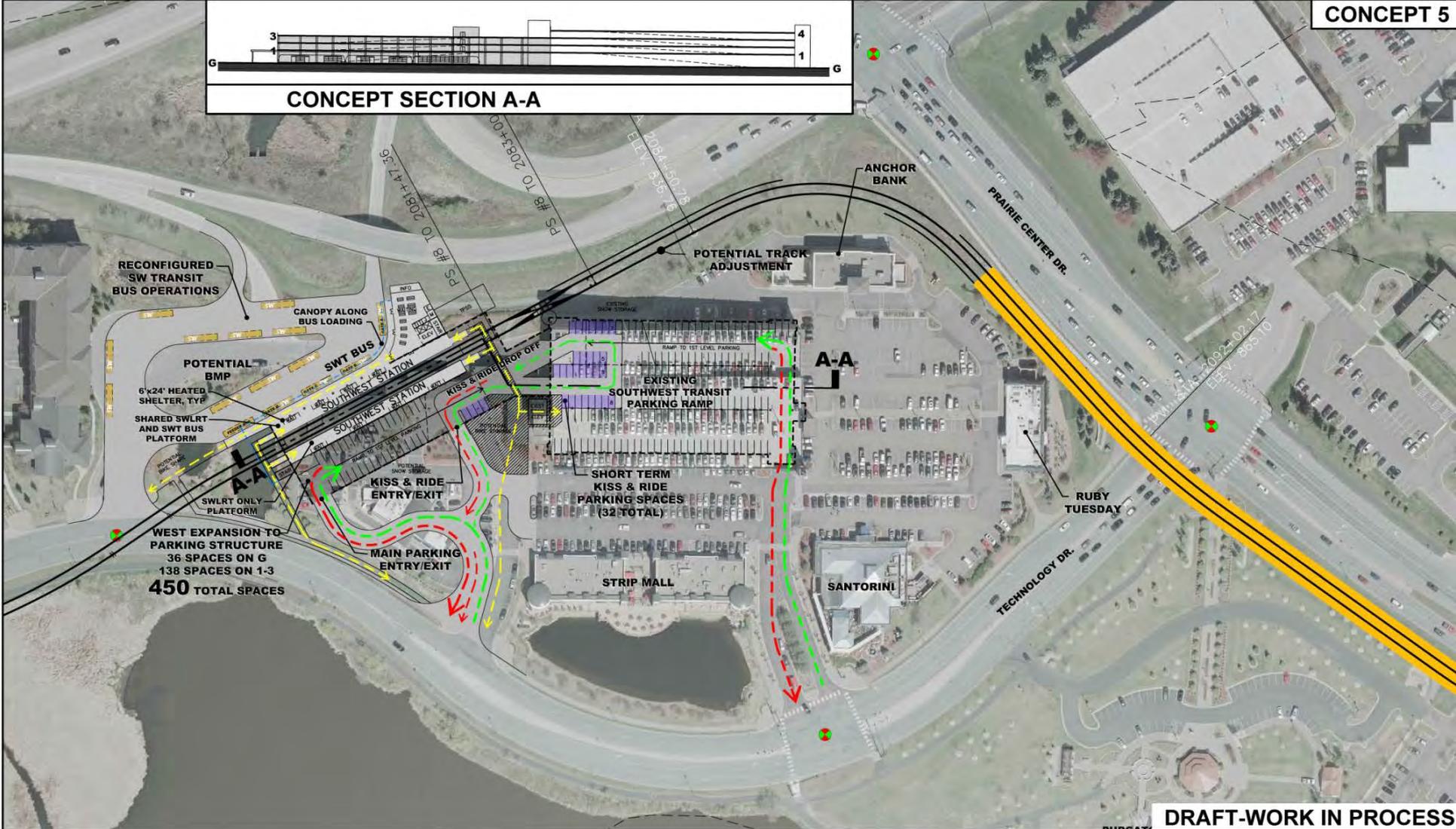


DRAFT-WORK IN PROCESS

Southwest Station: Concept #5



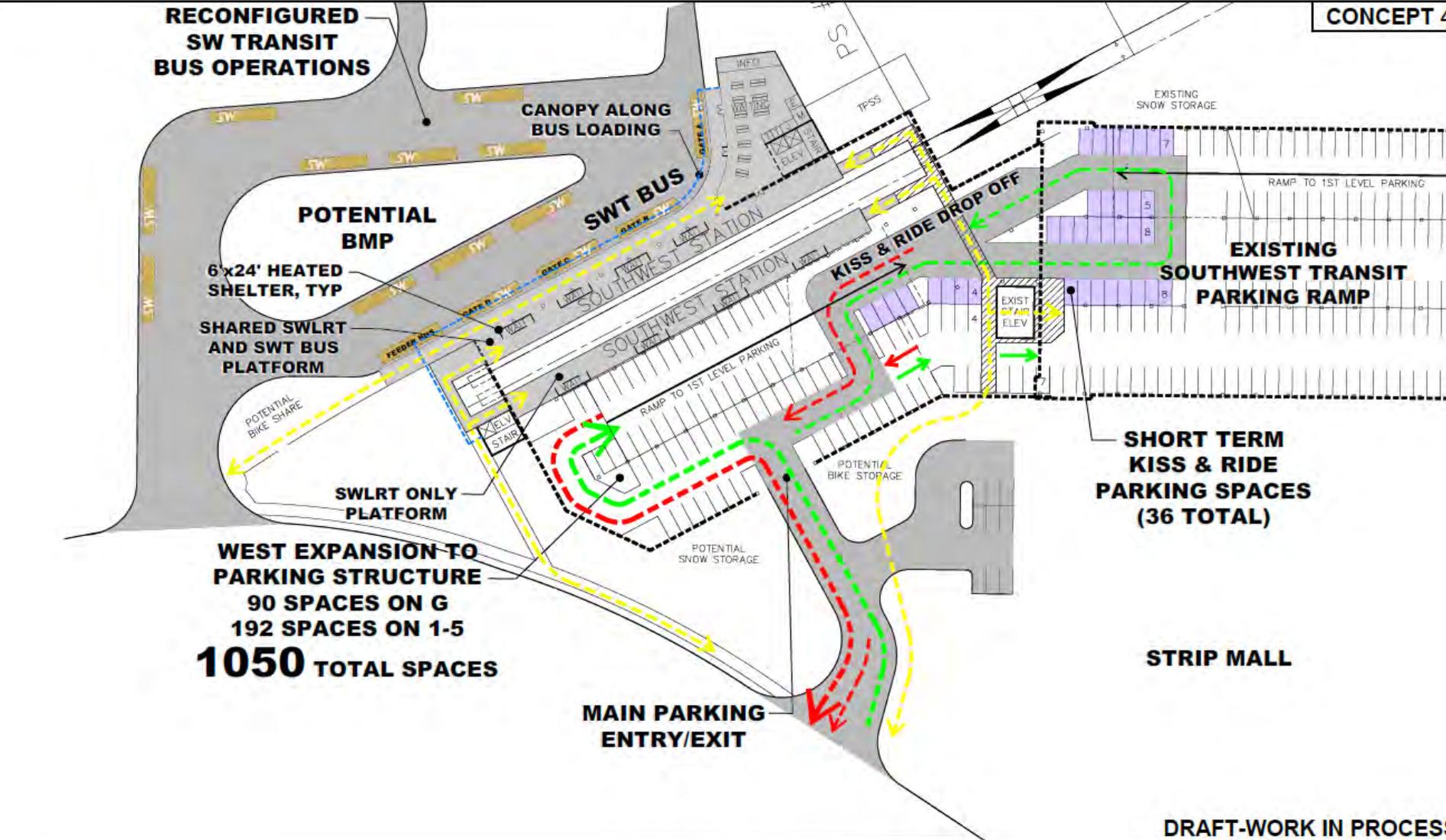
CONCEPT 5



DRAFT-WORK IN PROCESS

Southwest Station: Concept #5

CONCEPT 4



DRAFT-WORK IN PROCESS

Member and Committee Reports

More Information

Online:

www.SWLRT.org

Email:

SWLRT@metrotransit.org

Twitter:

www.twitter.com/southwestlrt

