

Special Joint Business and Community Advisory Committee Meeting

June 6, 2013

Metro Transit

Metropolitan Council

EDEN PRAIRIE | MINNETONKA | EDINA | HOPKINS | ST. LOUIS PARK | MINNEAPOLIS

FTA

Transit



Today's Topics

- Welcome and Introductions
- Technical Issue Presentations:
 - Freight Rail: Co-location and Relocation Options
 - SWLRT Stations: Louisiana, Beltline, West Lake and 21st
 - TH 100 and Cedar Lake Parkway
 - Next Steps/Open Houses
- Technical Issues Workshop/Discussion
- Adjourn



SWLRT Project Development Technical Issues

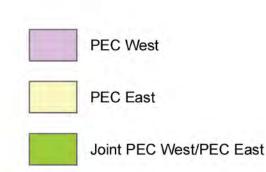
Revision 04: 28 May 2013

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

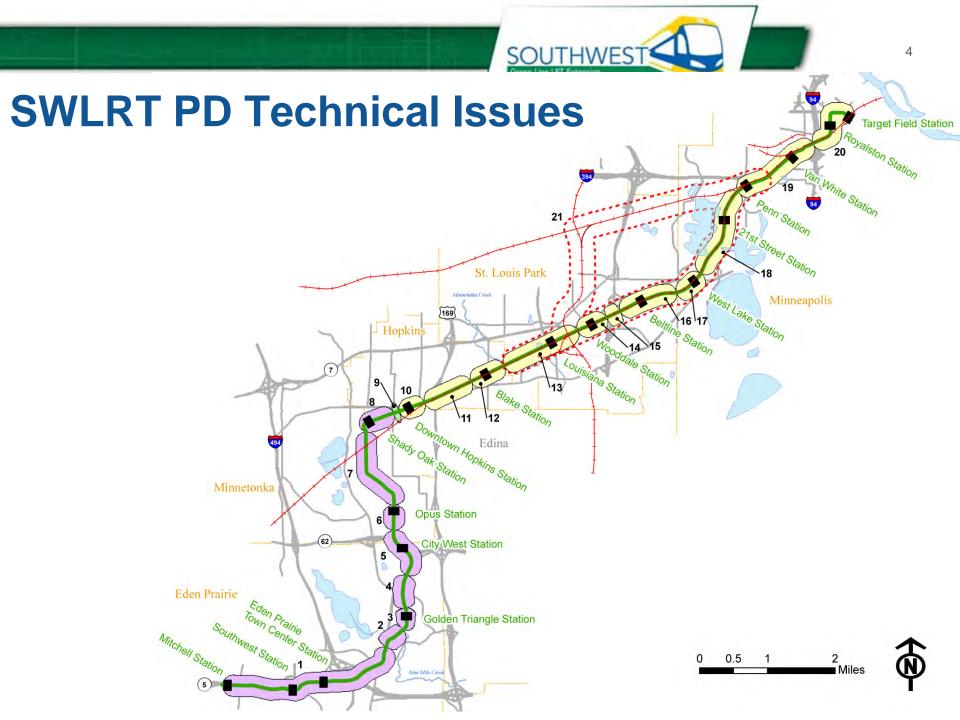
9. PEC West/PEC East Interface Point

- 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



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





Technical Issue #21: Freight Rail Co-location / Relocation

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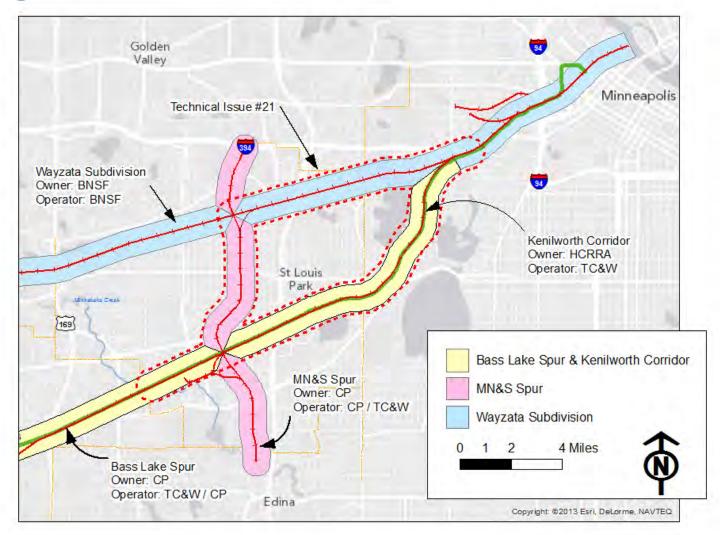


- Background:
 - Co-location and relocation analysis required by FTA as a condition to enter PE
 - Part of the Metropolitan Council's due diligence and responsibility as project sponsor



- Review existing information
 - Freight Rail lines
 - Train volumes
- Technical Issue overview
- Freight Rail co-location design options
- Freight Rail relocation design options





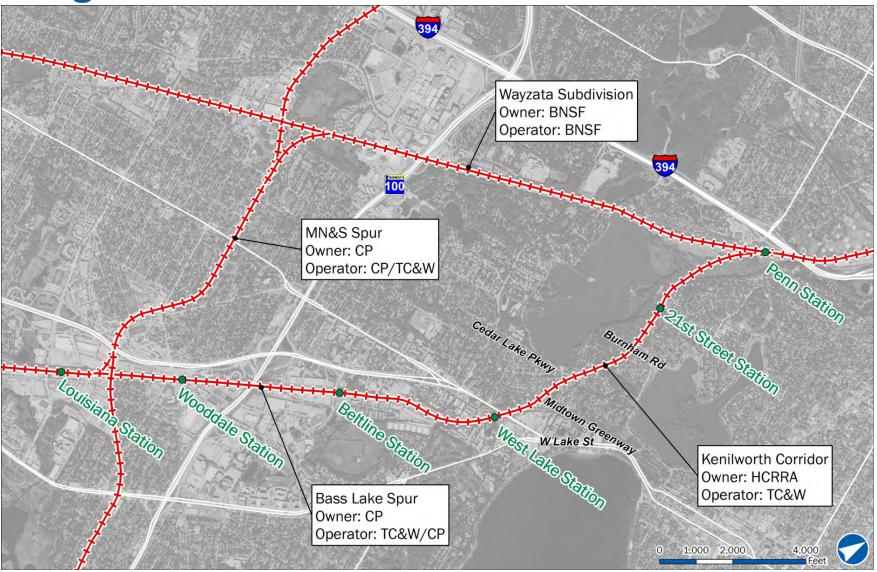


Freight Rail Technical Issue #21 Existing Train Volumes

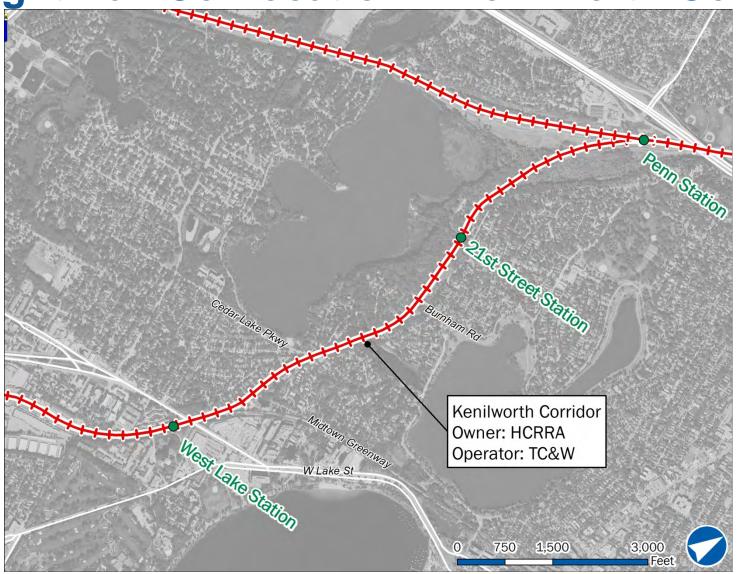
Railroad and Route	Avg. Weekly Trains	Avg. Number of Cars Per Train	Typical Commodities
TC&W/ Bass Lake and Kenilworth	14	65 – 75	Agri-goods
	5 – 6	80 – 125	Ethanol, Grain, Coal
CP/ MN&S	10	10 – 25	Local Services
BNSF/ Wayzata Subdivision	91	80 – 125	Wide Variety



Freight Rail Technical Issue #21 - Overview

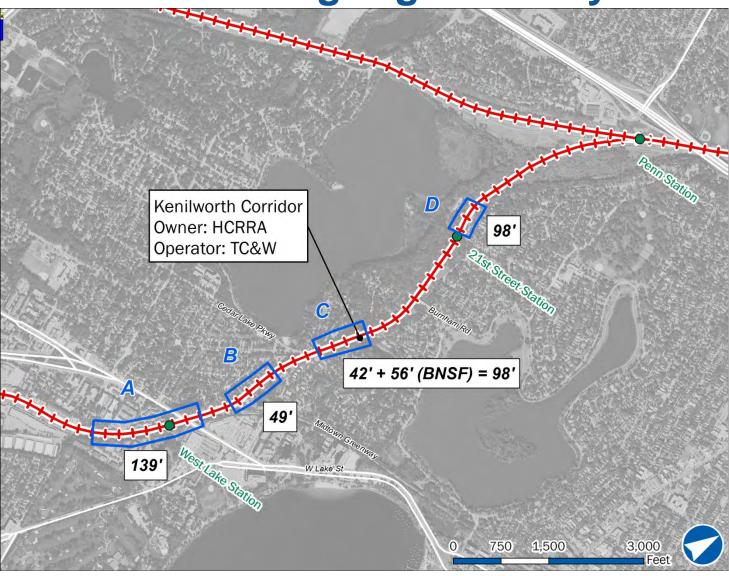








Kenilworth – Existing Right-of-Way Widths

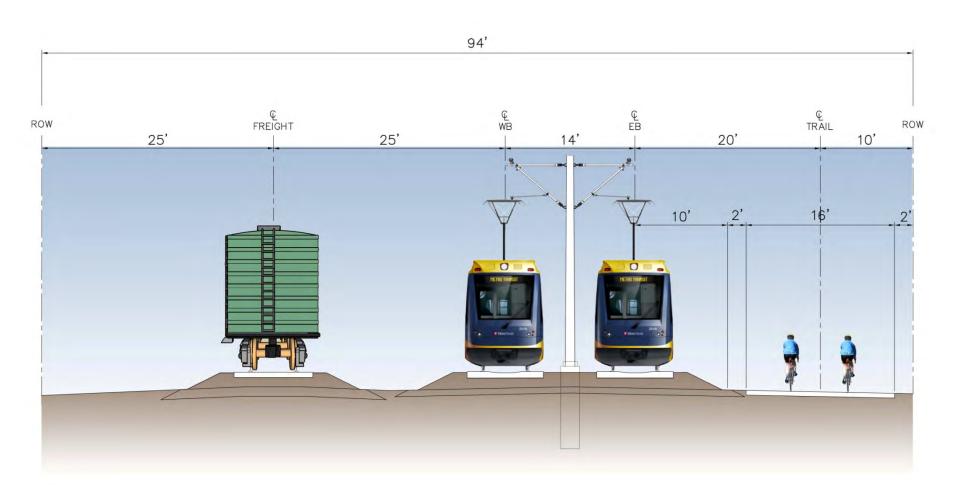




- Freight Rail Co-location Design Options
 - All modes at-grade
 - Trail relocated
 - Trail elevated
 - LRT elevated
 - LRT in tunnel
 - Shallow tunnel
 - Deep bored tunnels

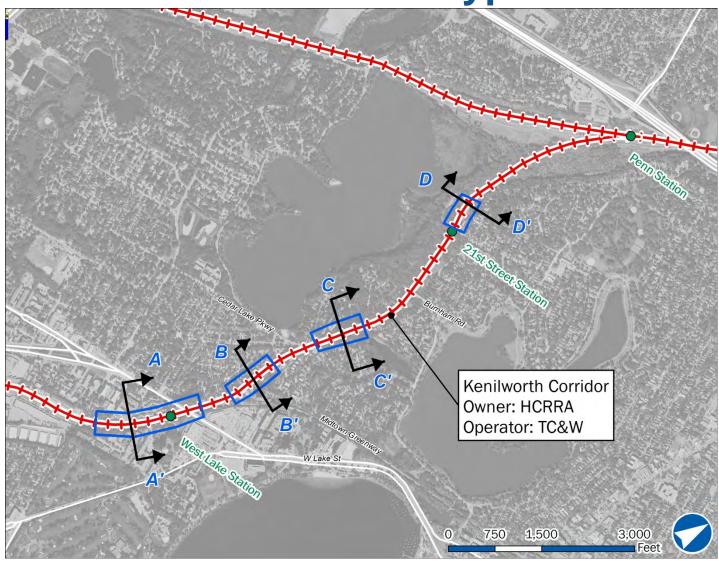


All Modes At-Grade - 94 ft Section



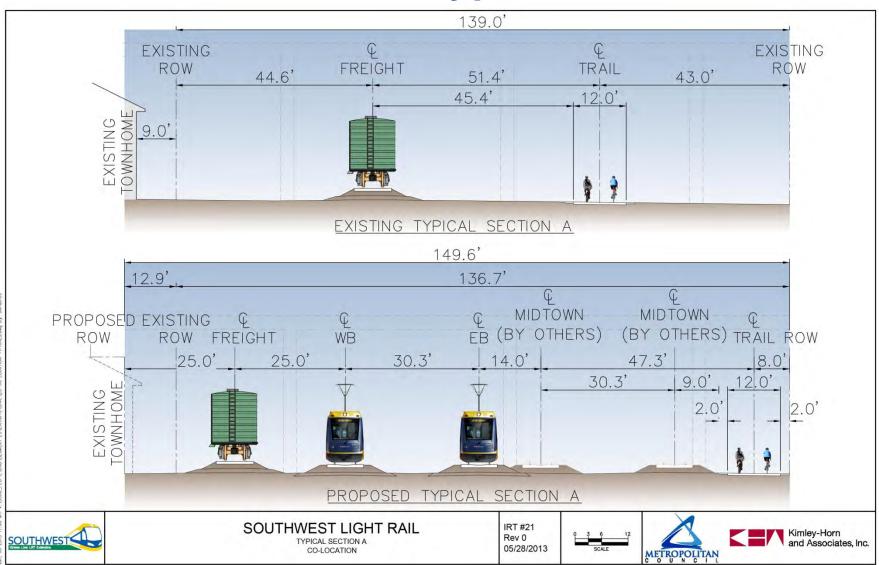


All Modes At-Grade – 94 ft Typical Sections



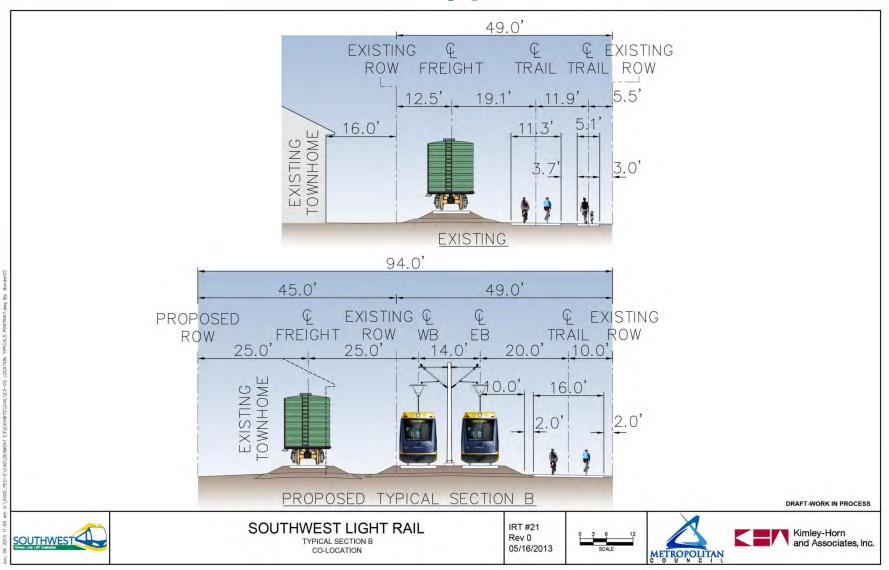


All Modes At-Grade - Typical Section A-A'



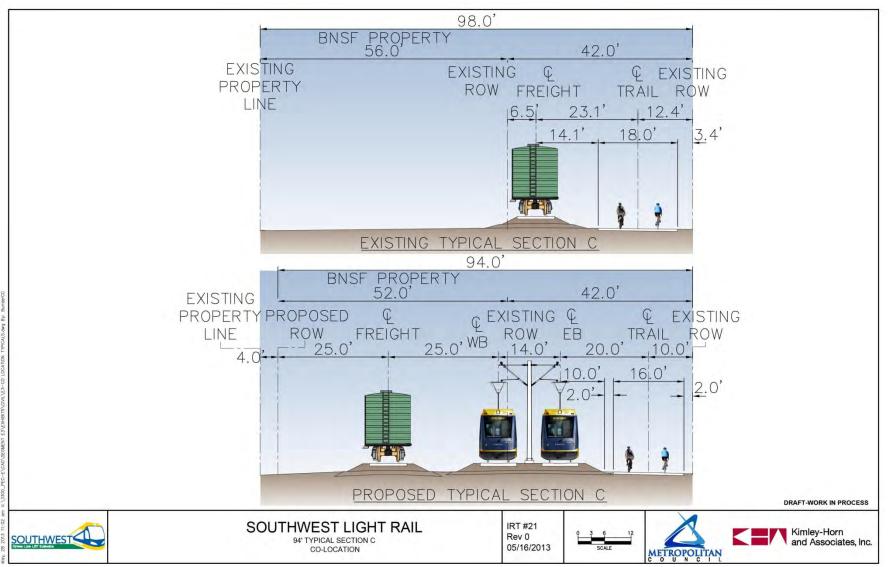


All Modes At-Grade - Typical Section B-B'



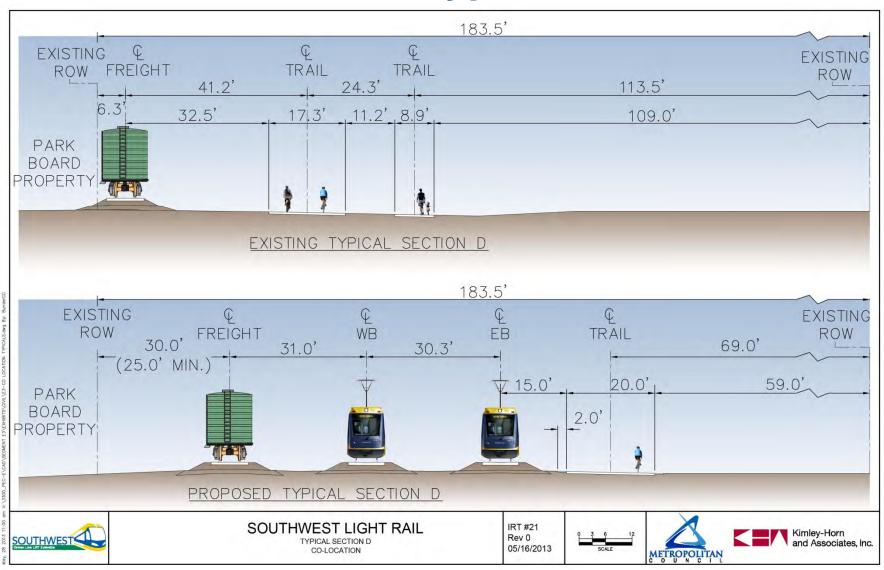


All Modes At-Grade - Typical Section C-C'





All Modes At-Grade - Typical Section D-D'

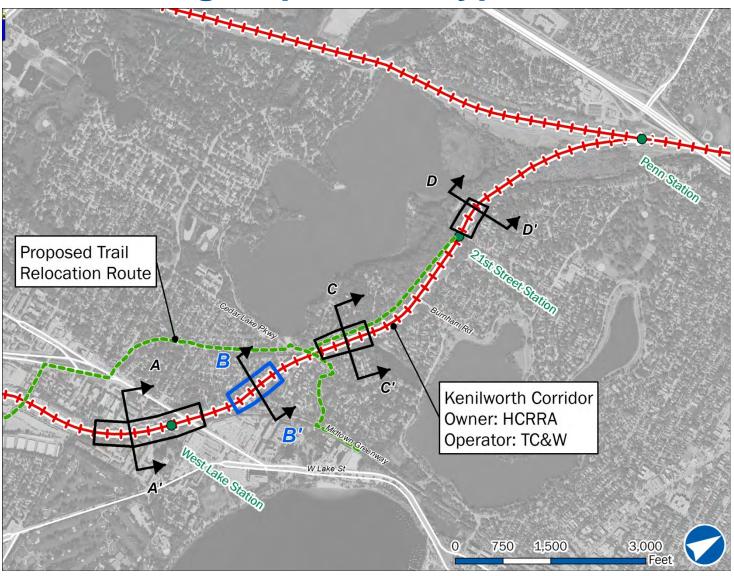




- Freight Rail Co-location Design Options
 - All modes at-grade
 - Trail relocated Midtown Greenway to Cedar Lake Pkwy.
 - Trail elevated West Lake Station to North side of Burnham Bridge
 - LRT elevated Lake Street Bridge to North side of Burnham Bridge
 - LRT in tunnel
 - Shallow tunnel: Lake Street Bridge to North of Cedar Lake Pkwy.
 - Deep twin bored tunnels: West of West Lake Station to South of 21st Street Station

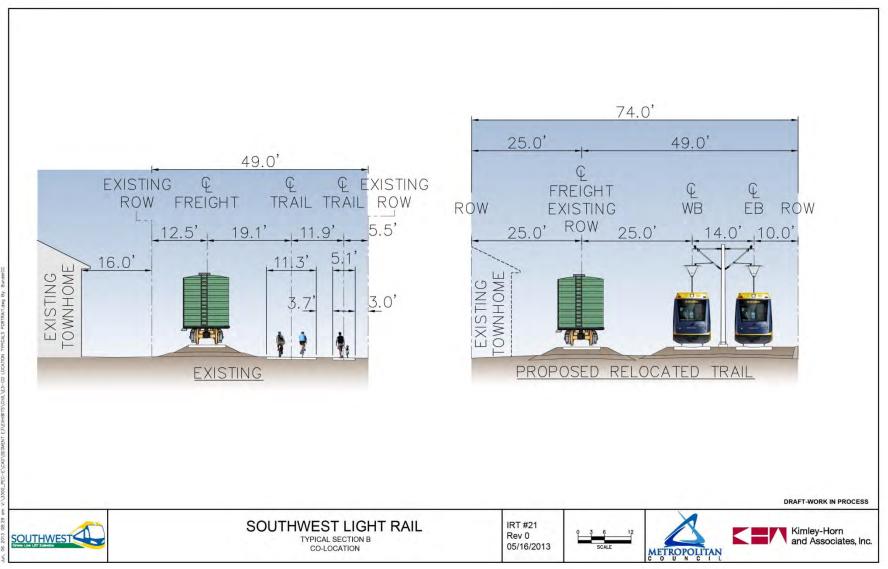


Additional Design Options – Typical Section B-B'



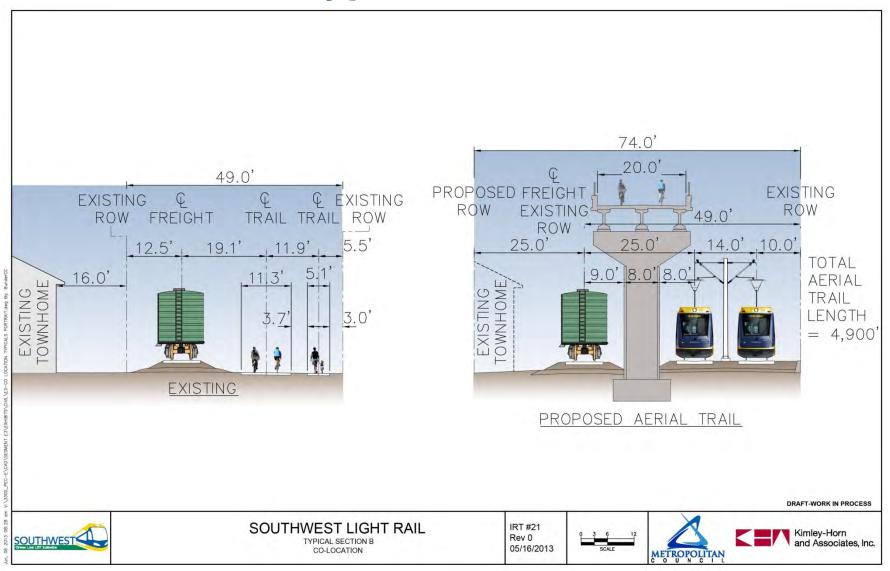


Trail Relocated - Typical Section B-B'



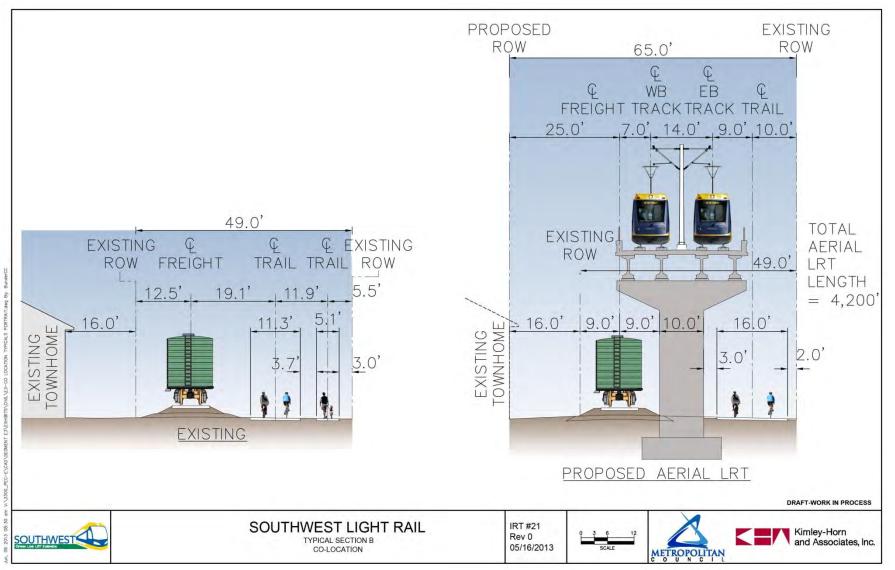


Trail Elevated - Typical Section B-B'



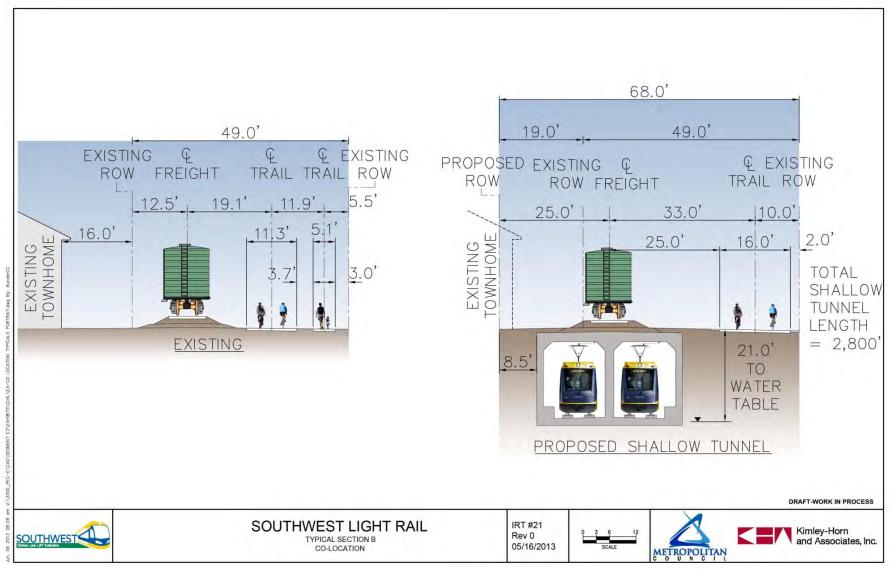


LRT Elevated - Typical Section B-B'



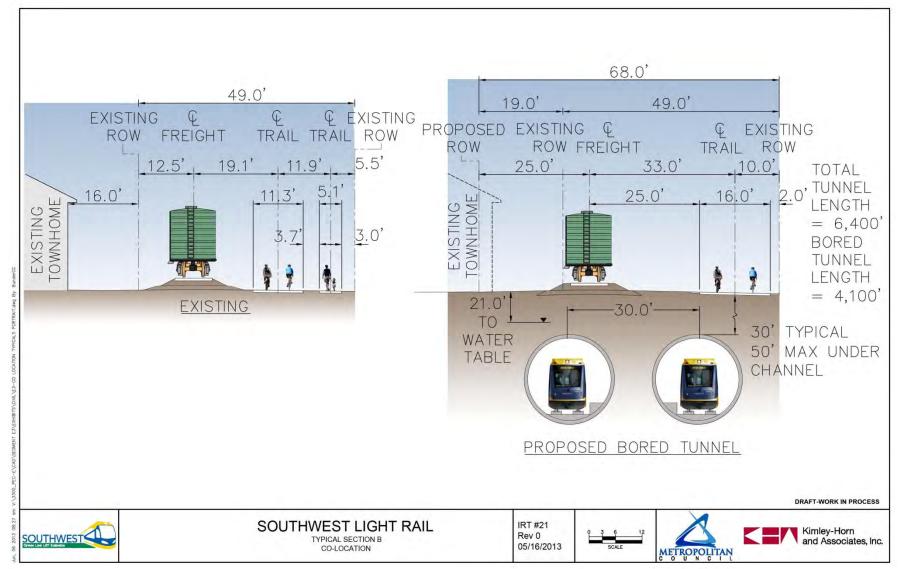


LRT in Shallow Tunnel - Typical Section B-B'

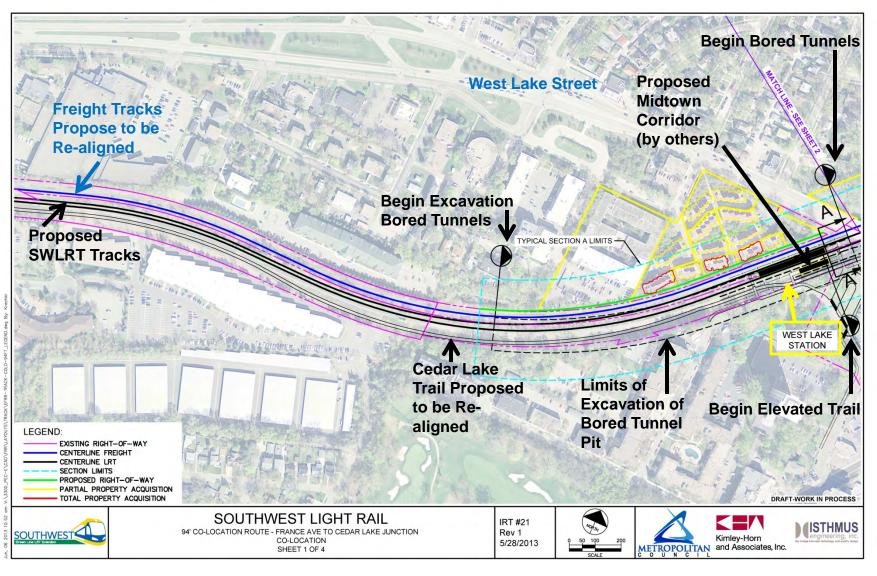




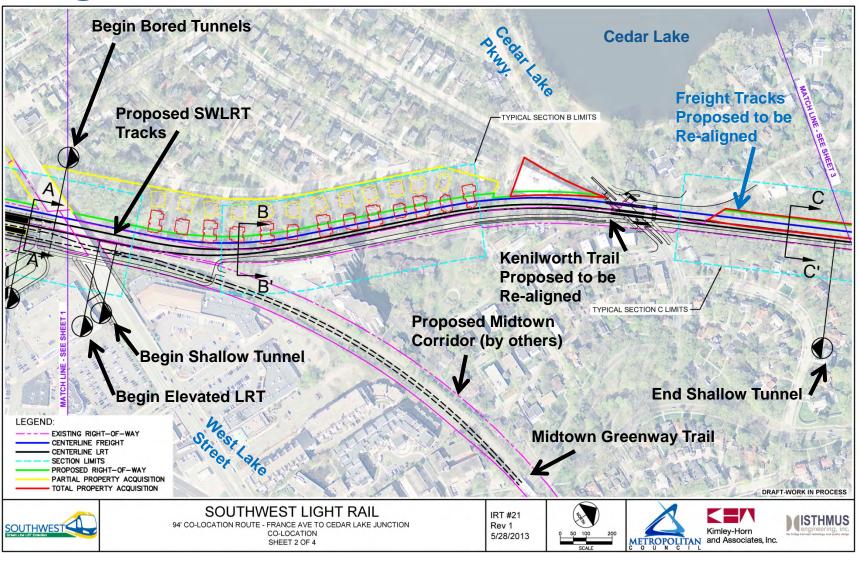
LRT in Deep Twin Tunnels-Typical Section B-B'



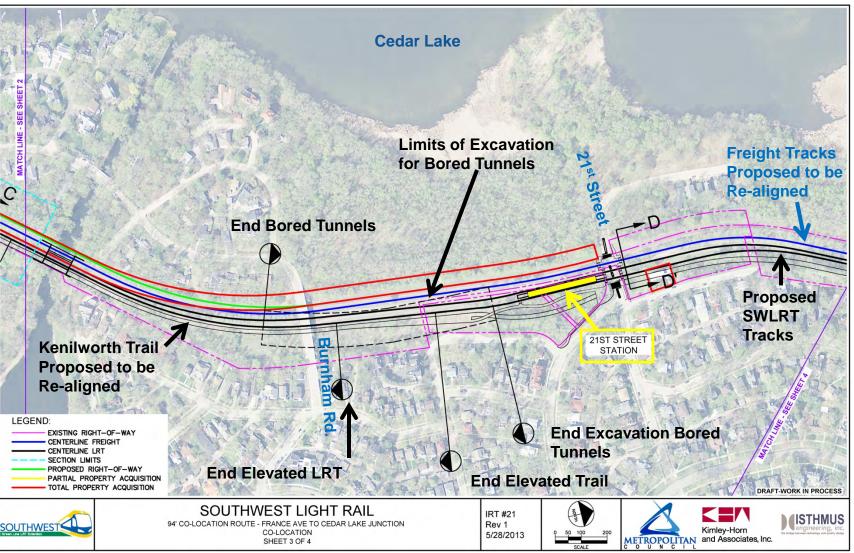






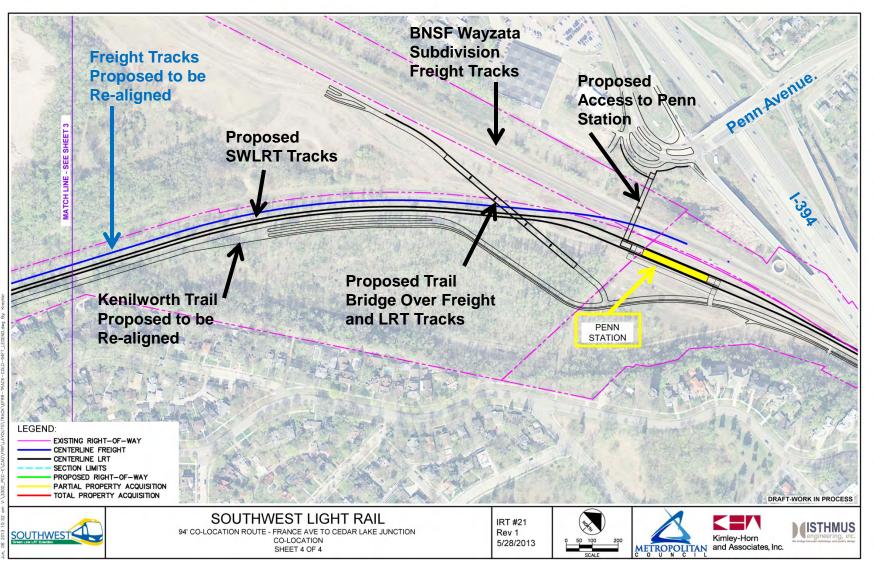








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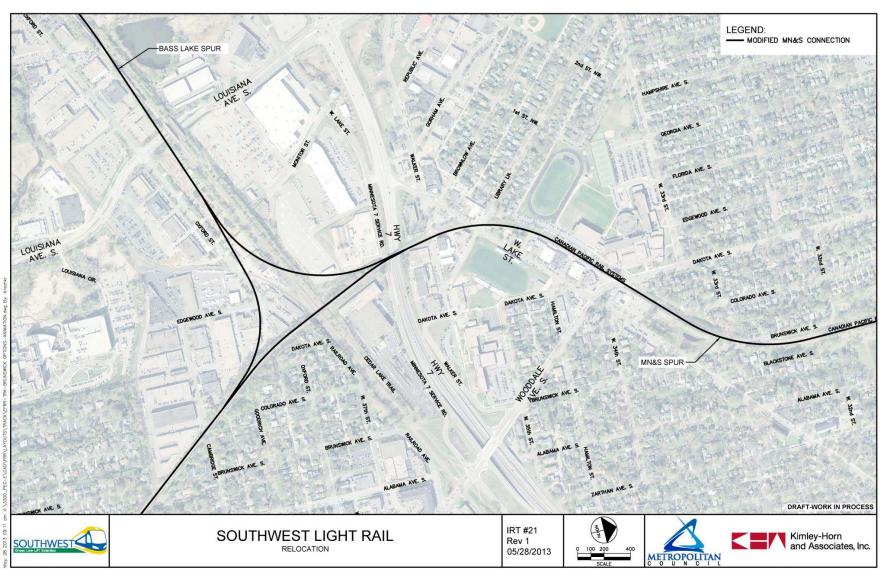




- Freight Rail Relocation Design Options
 - Modified MN&S connection
 - Brunswick West
 - Brunswick Central

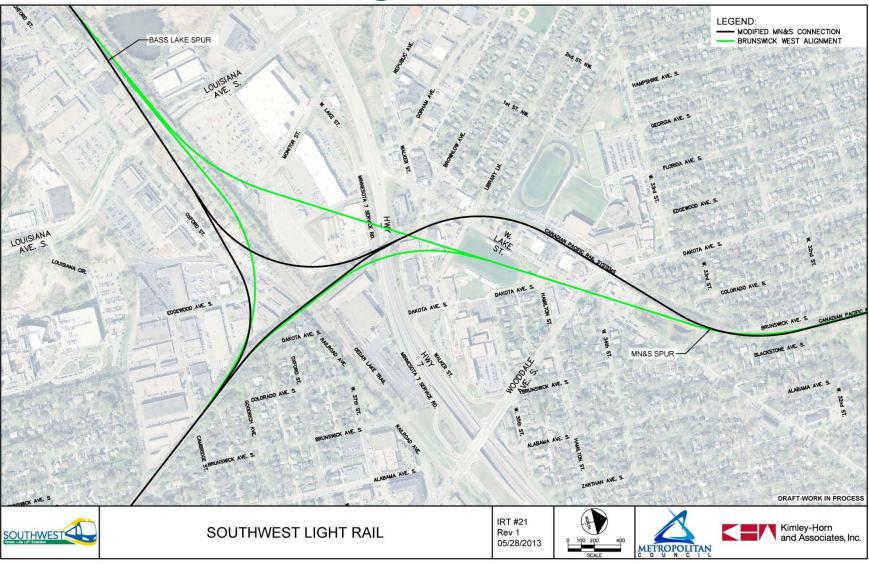


Modified MN&S Connection



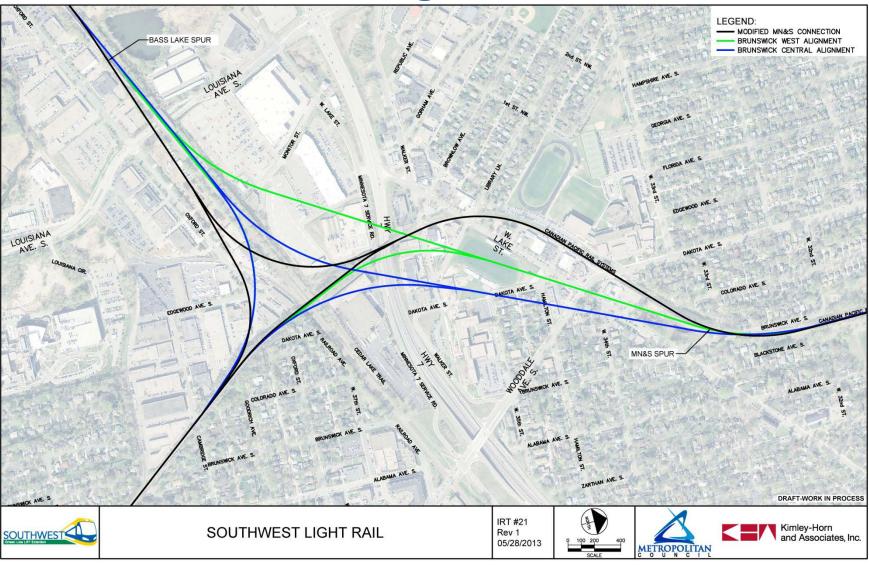


Brunswick West Alignment



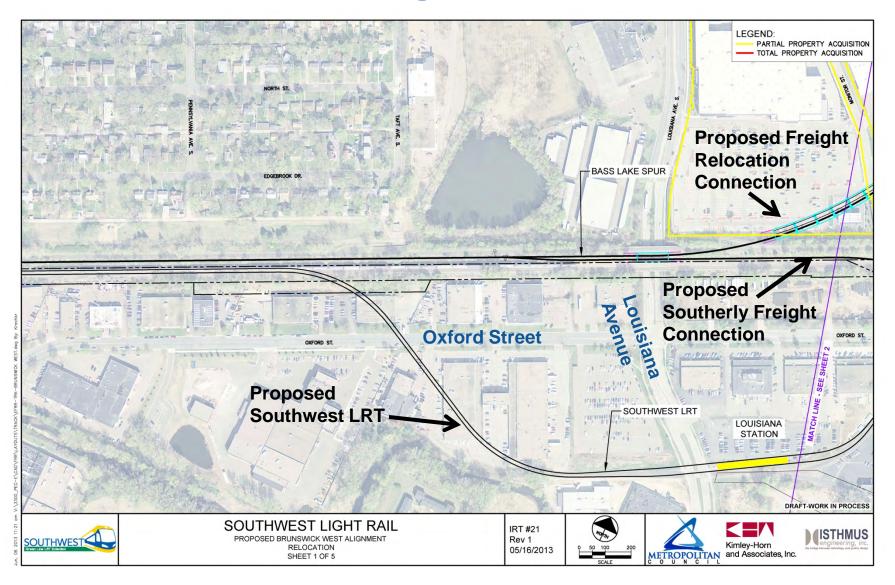


Brunswick Central Alignment



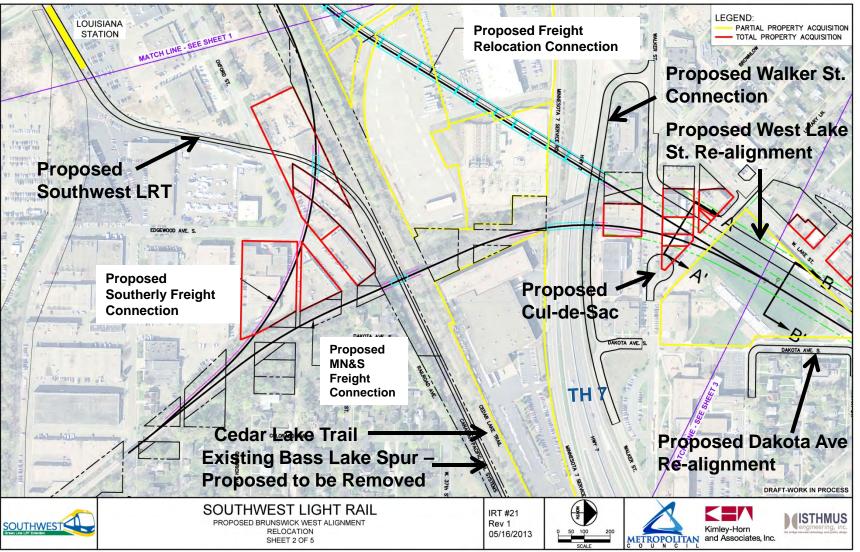


Brunswick West Alignment



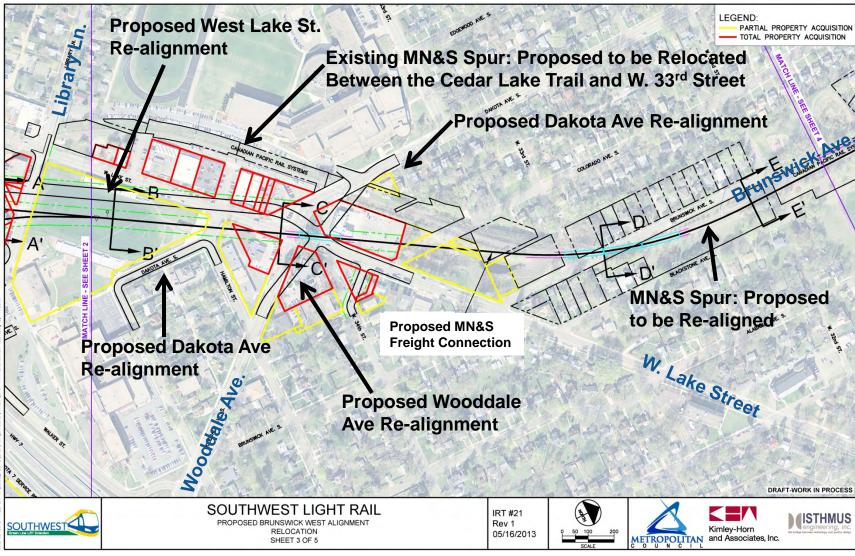


Brunswick West Alignment



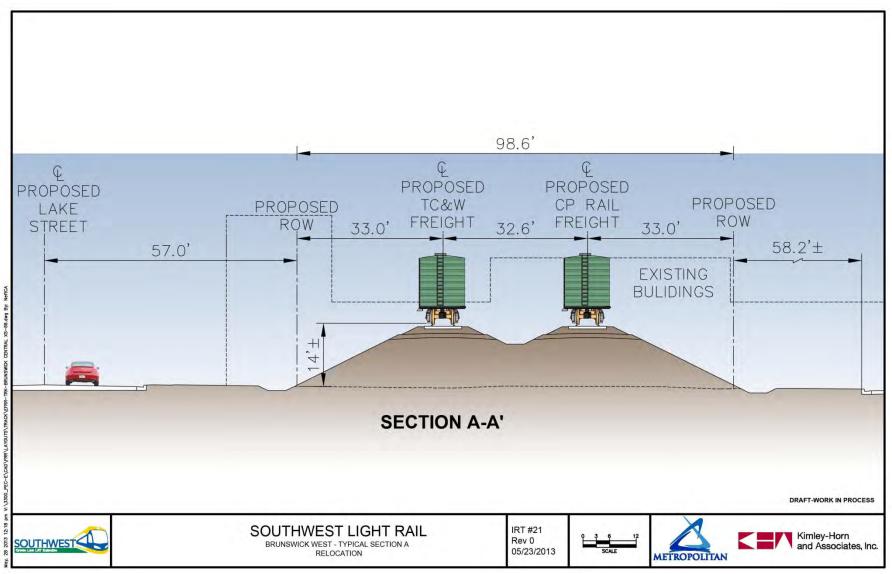


Brunswick West Alignment



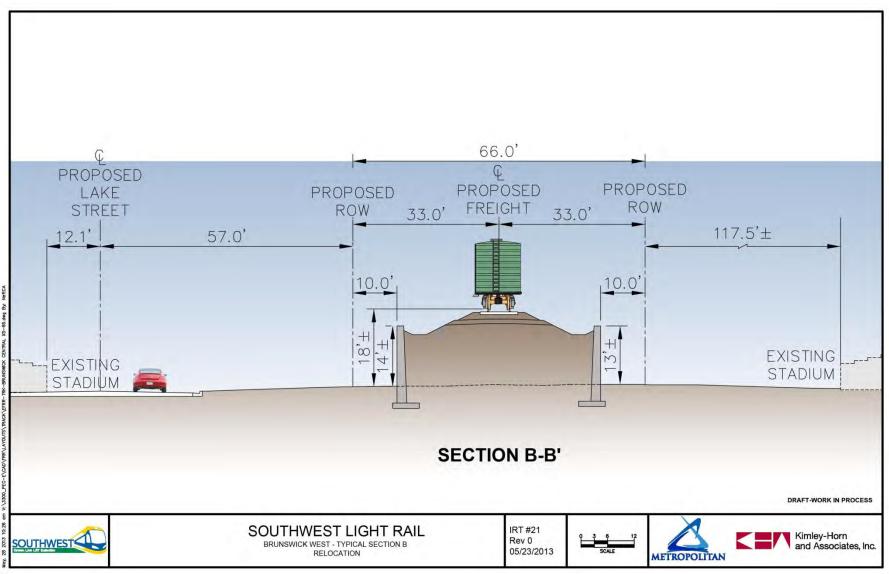


Brunswick West Alignment – Typical Section A-A'



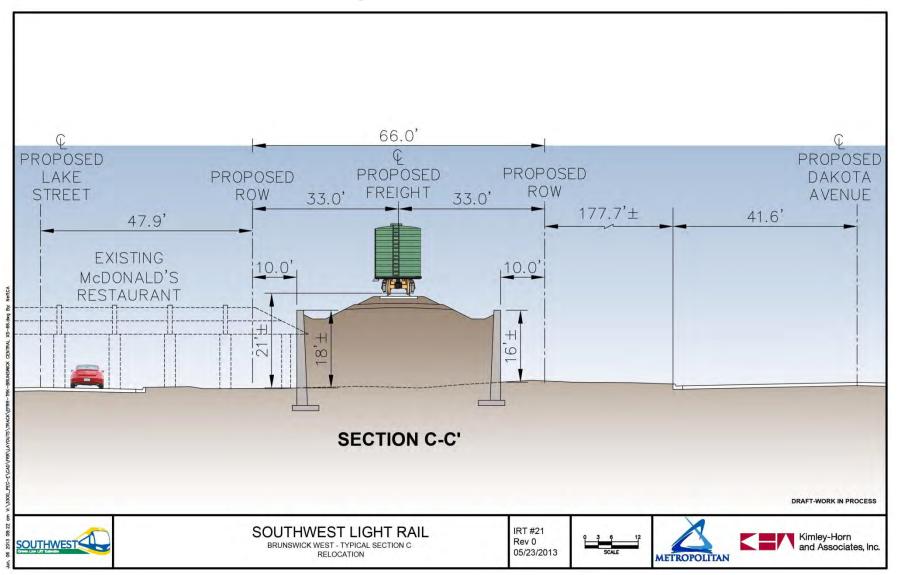


Brunswick West Alignment – Typical Section B-B'



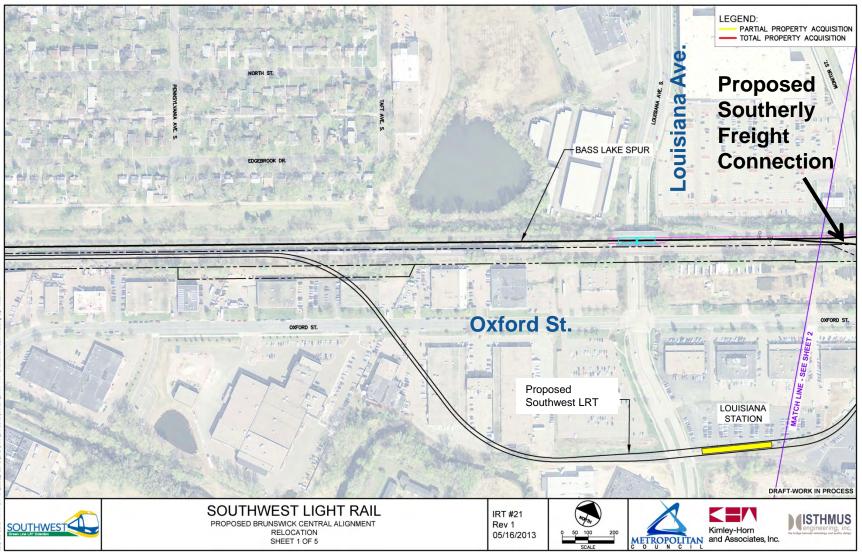


Brunswick West Alignment – Typical Section C-C'



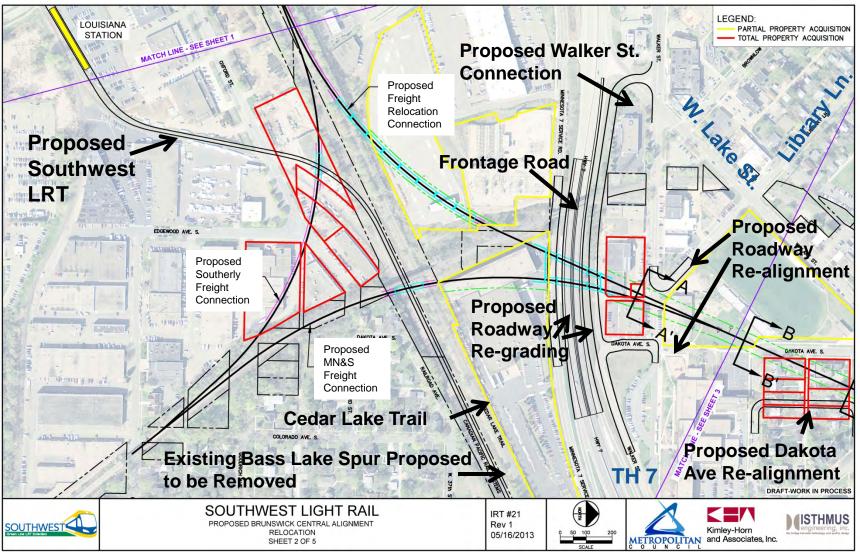


Brunswick Central Alignment



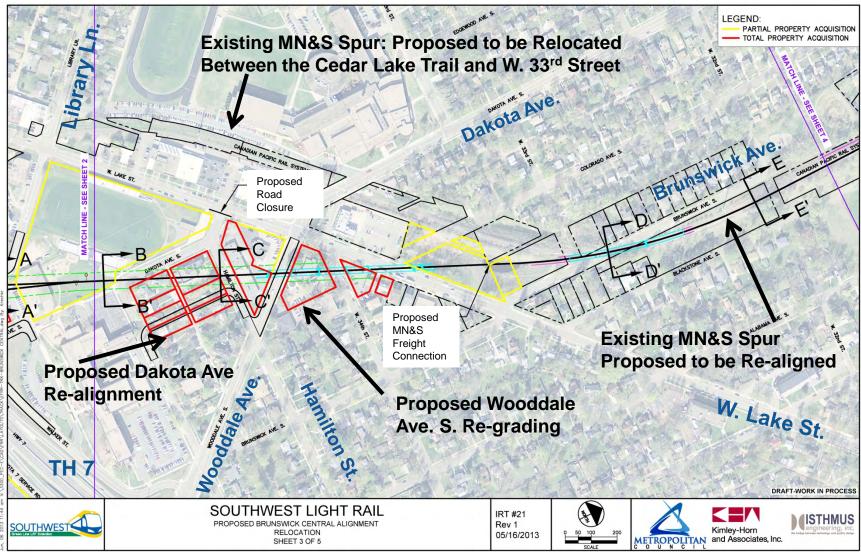


Brunswick Central Alignment



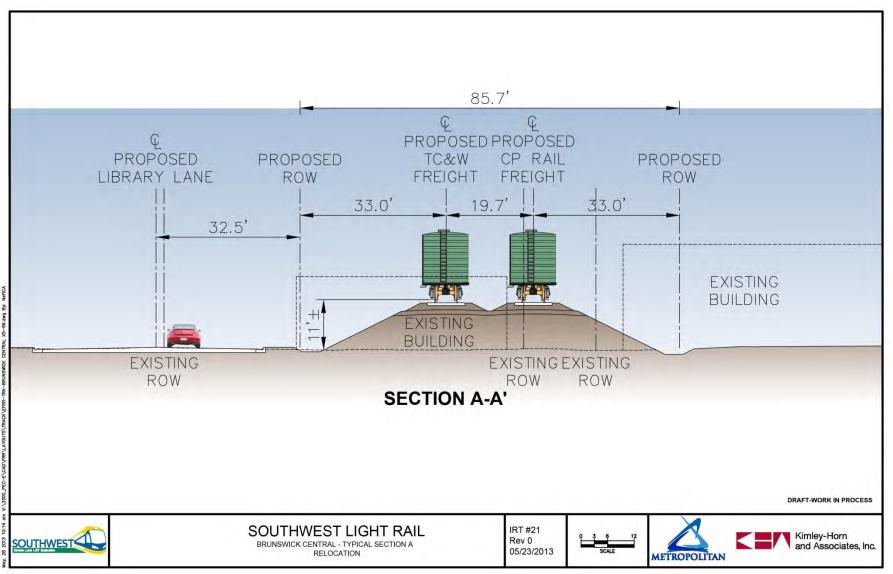


Brunswick Central Alignment



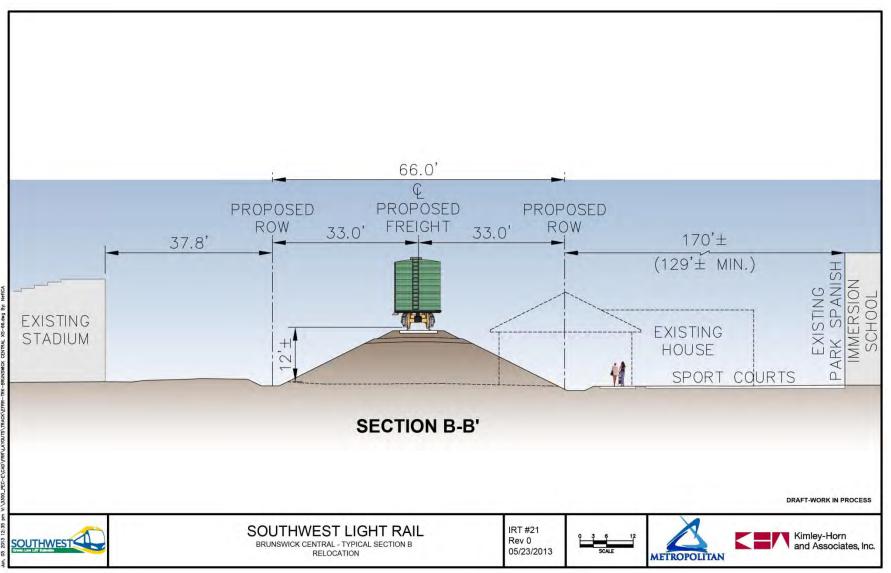


Brunswick Central Alignment – Typical Section A-A'





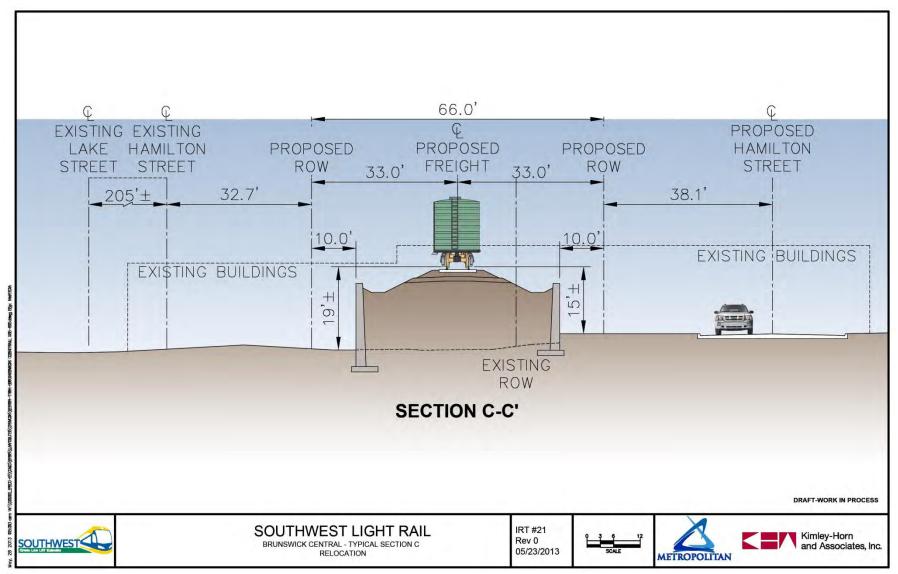
Brunswick Central Alignment – Typical Section B-B'



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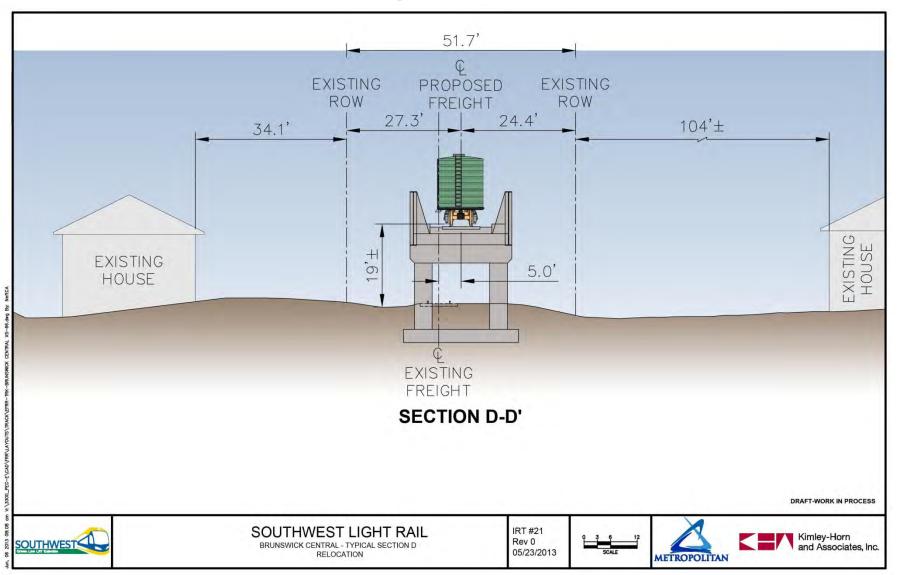


Brunswick Central Alignment – Typical Section C-C'





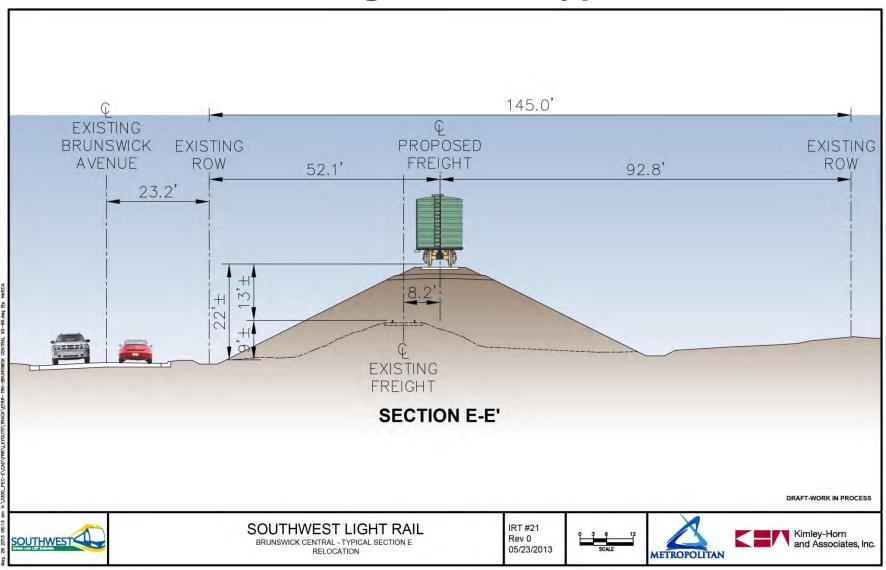
Brunswick Central Alignment – Typical Section D-D'



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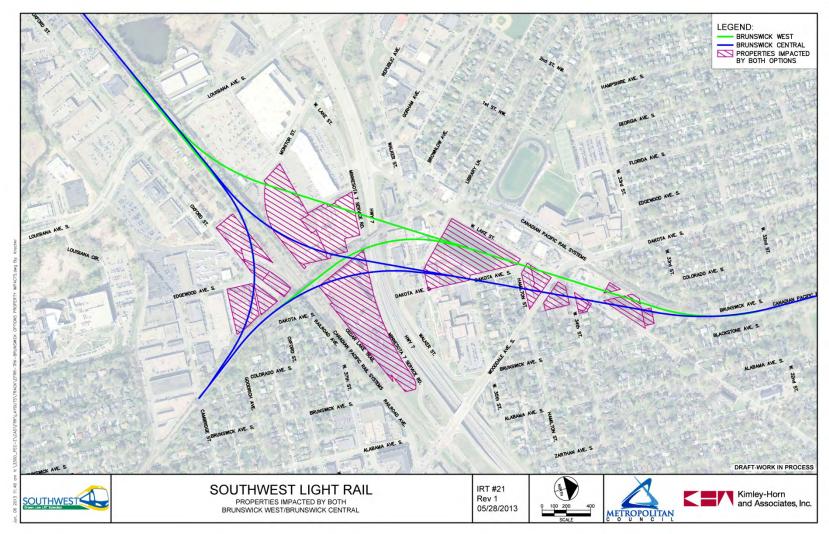


Brunswick Central Alignment – Typical Section E-E'



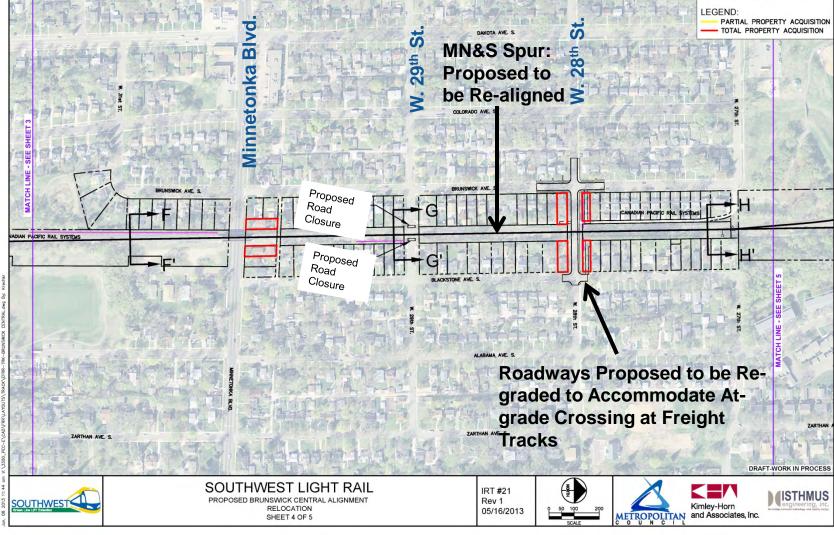


Brunswick West/Central Alignments: Property Impacts Common to Both Options



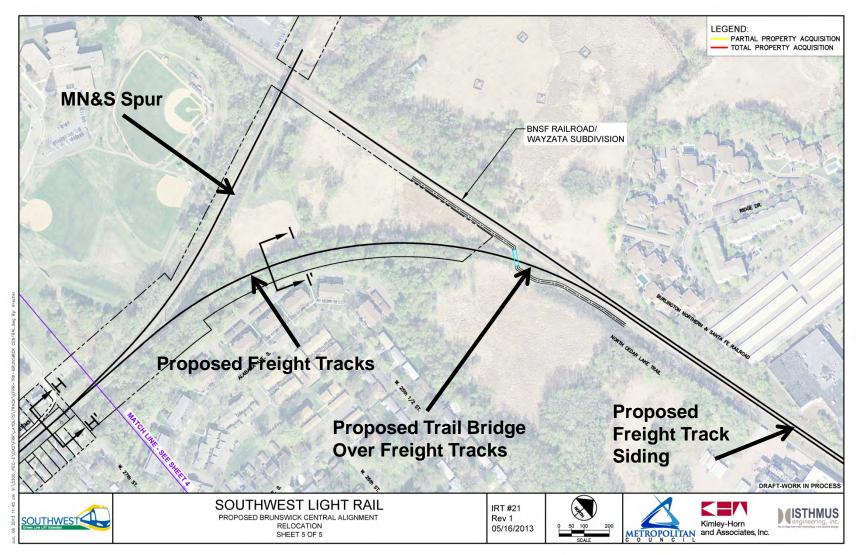


Brunswick Alignment: Segment Common to Both West and Central Options



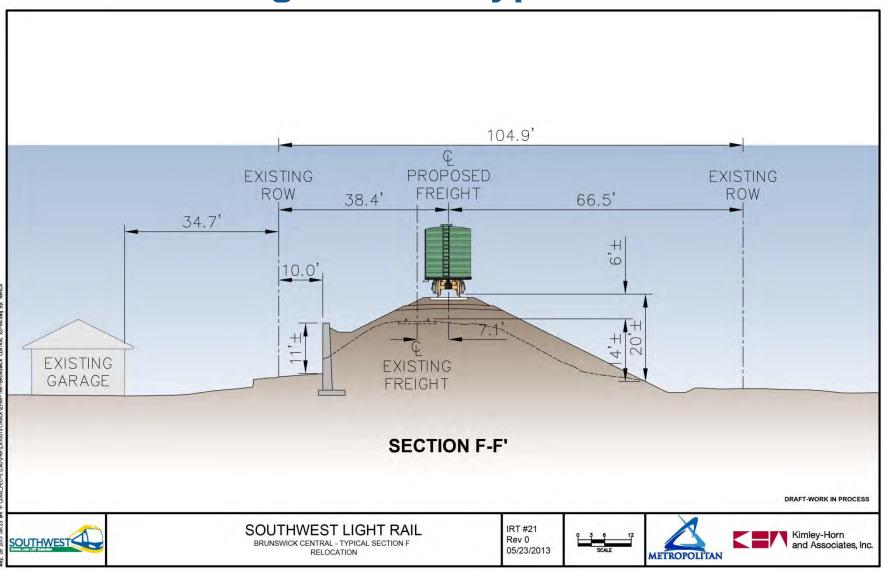


Brunswick Alignment Segment Common to Both West and Central Options



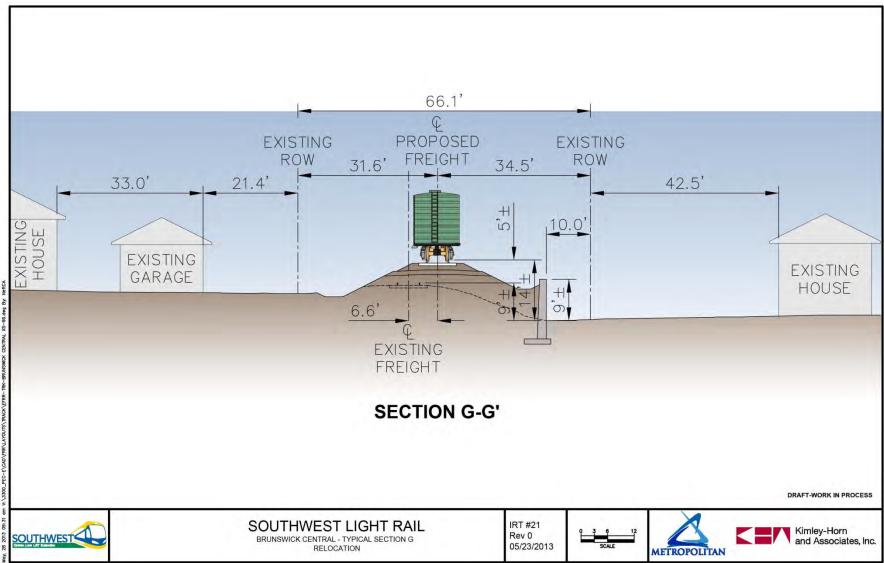


Brunswick Alignment – Typical Section F-F'



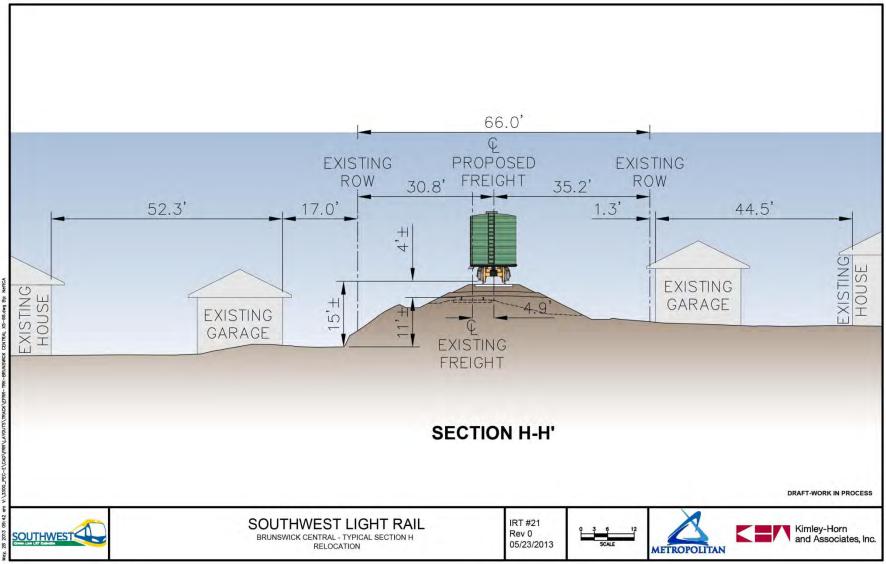


Brunswick Alignment – Typical Section G-G'



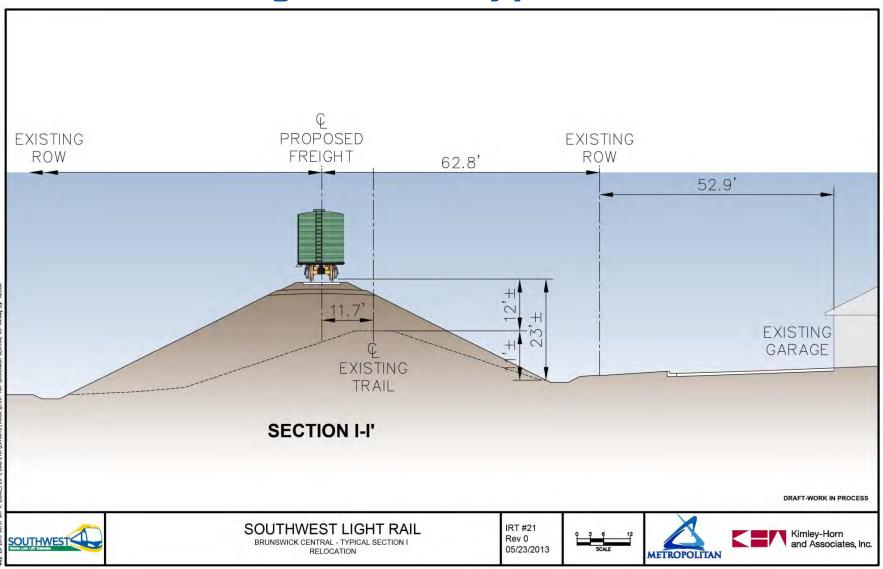


Brunswick Alianment – Typical Section H-H'





Brunswick Alignment – Typical Section I-I'





Feedback from You

- Please think about:
 - Potential opportunities of the freight options
 - Potential challenges of the freight options
 - Other ideas





Freight Rail Technical Issue #21 Next Steps

- Review co-location and relocation designs / seek input
 - St. Louis Park School Board May 28
 - Minneapolis Transportation & Public Works Committee June 4
 - Special Joint SWLRT Business/Community Advisory Cmt. June 6
 - SWLRT Corridor Management Committee June 12
 - Public Open Houses June 13
- Develop cost estimates / Continue design refinement environmental evaluation – June/July
- Present recommended design option
 - Business Advisory Committee July 24
 - Community Advisory Committee July 25
 - SWLRT Corridor Management Committee August 7
 - Metropolitan Council August
- Continue design refinement environmental evaluation

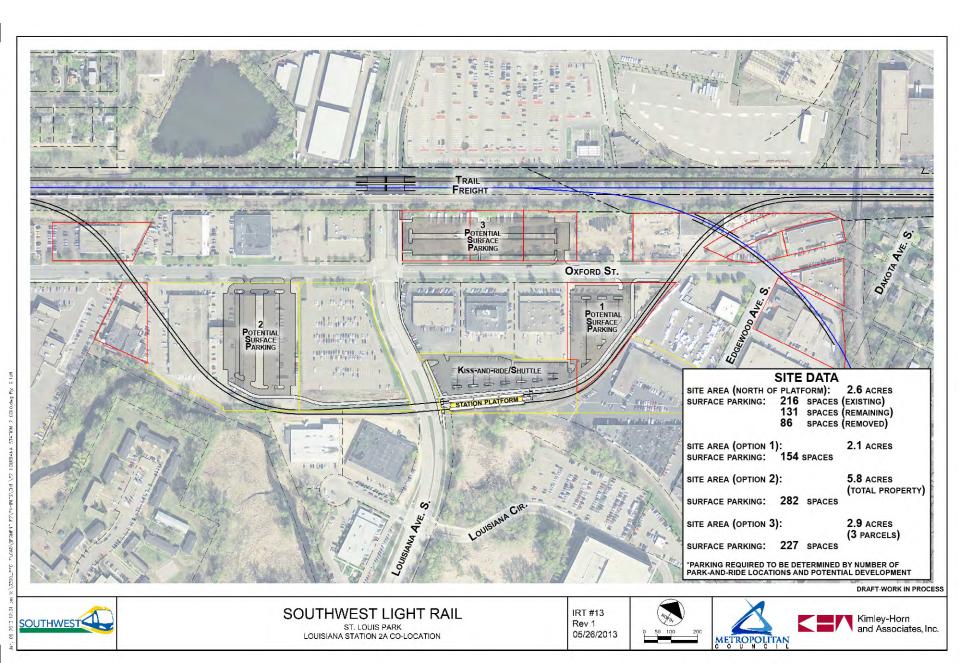


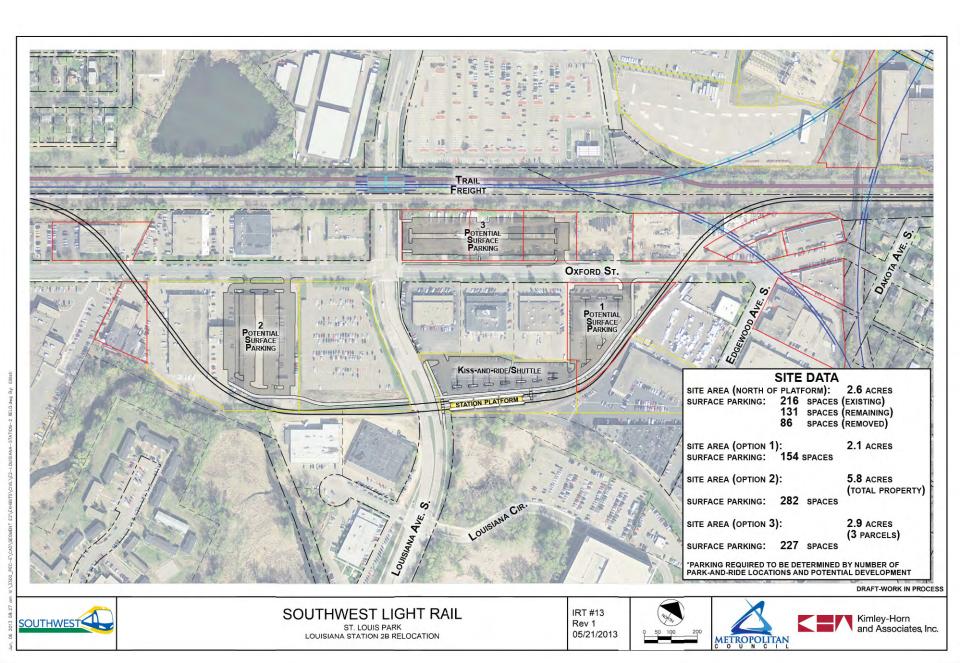
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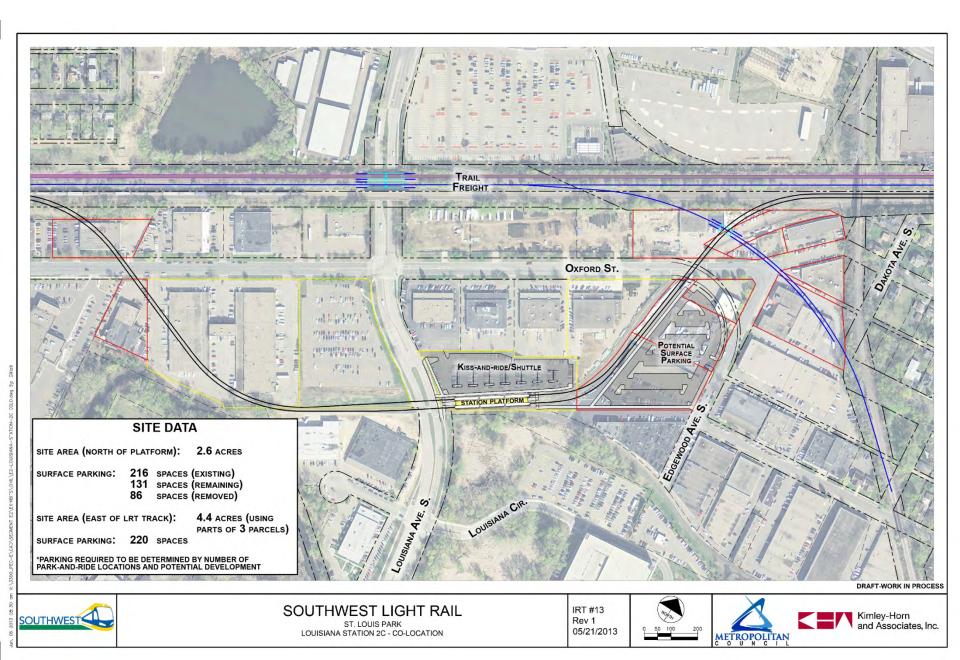
Technical Issues 13, 16, 17, 18: Louisiana, Beltline, West Lake and 21st Street Stations

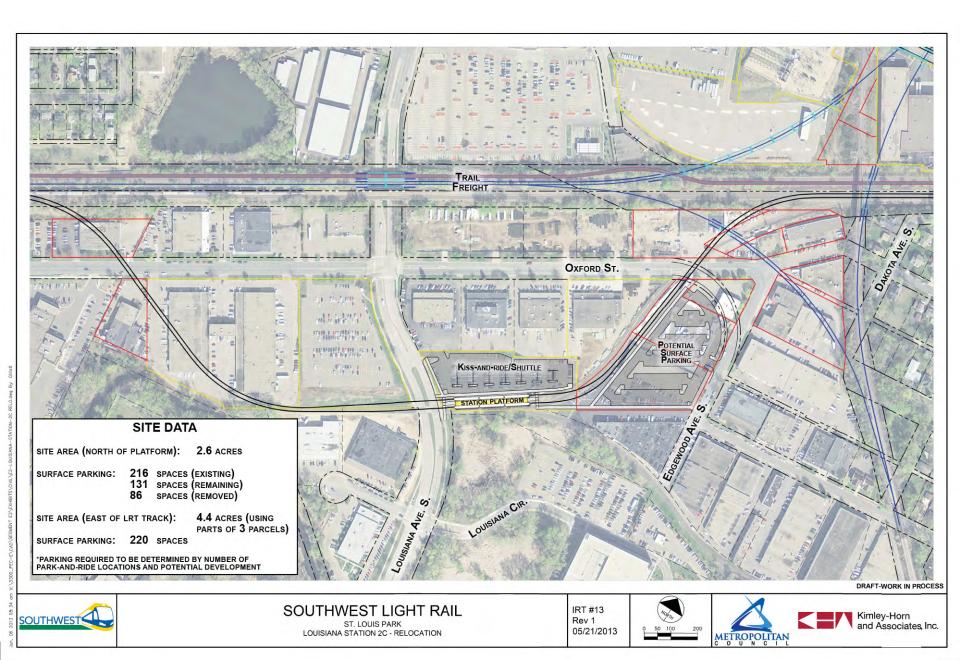


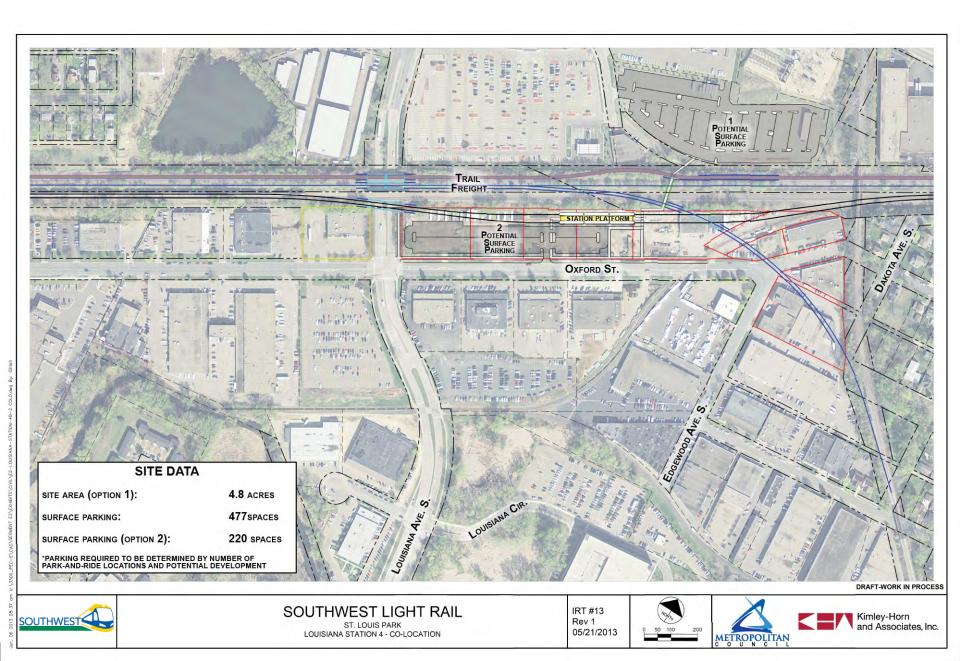
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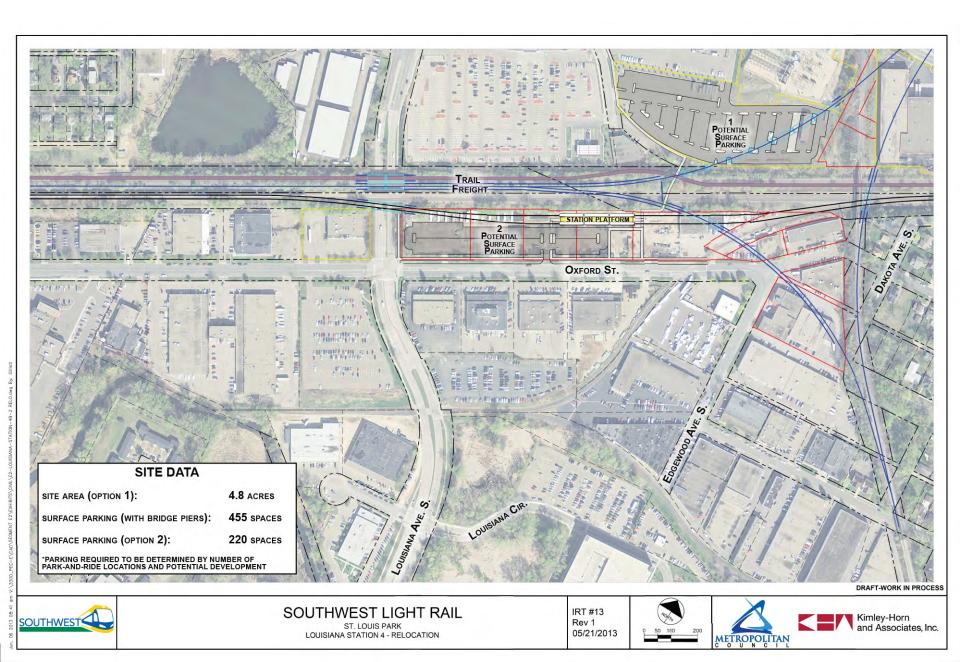


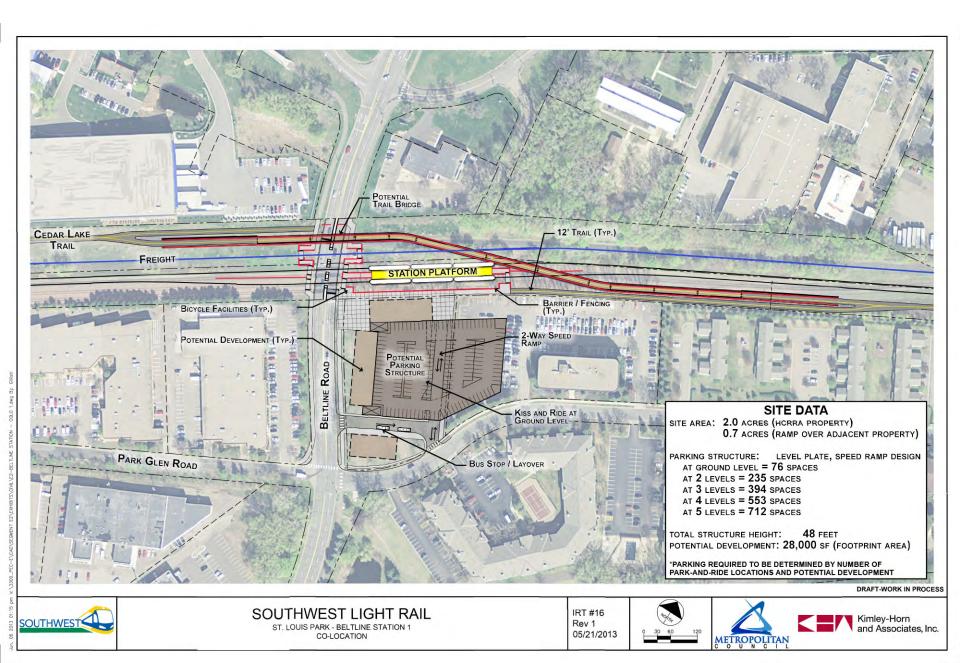


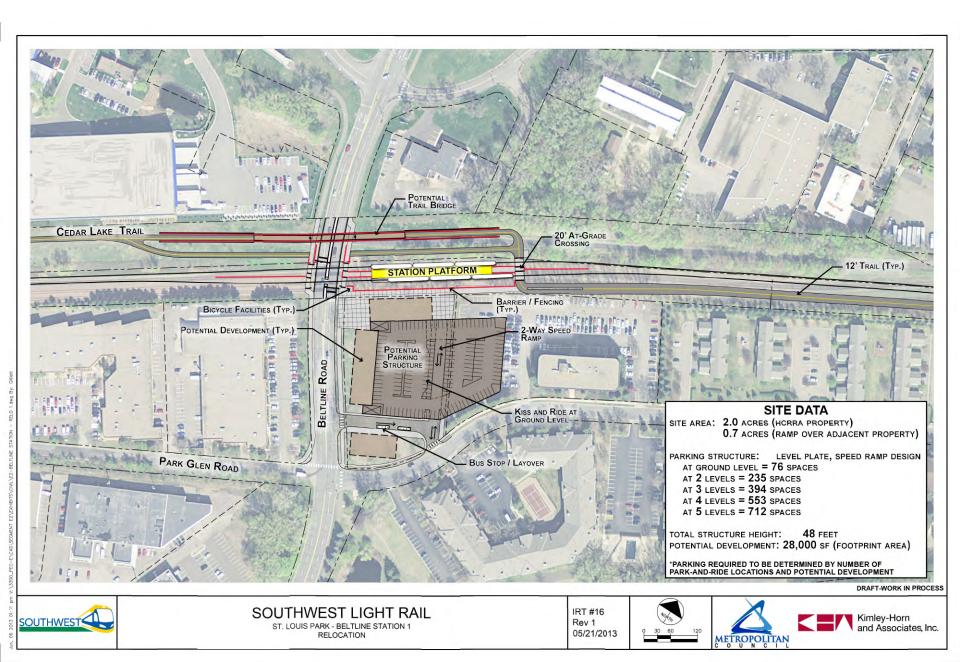


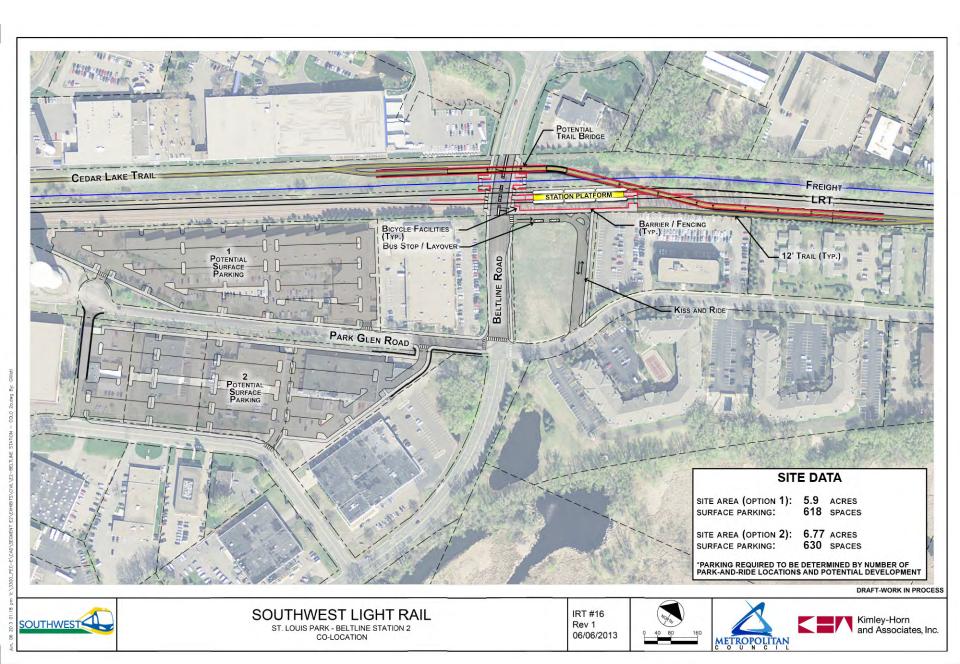


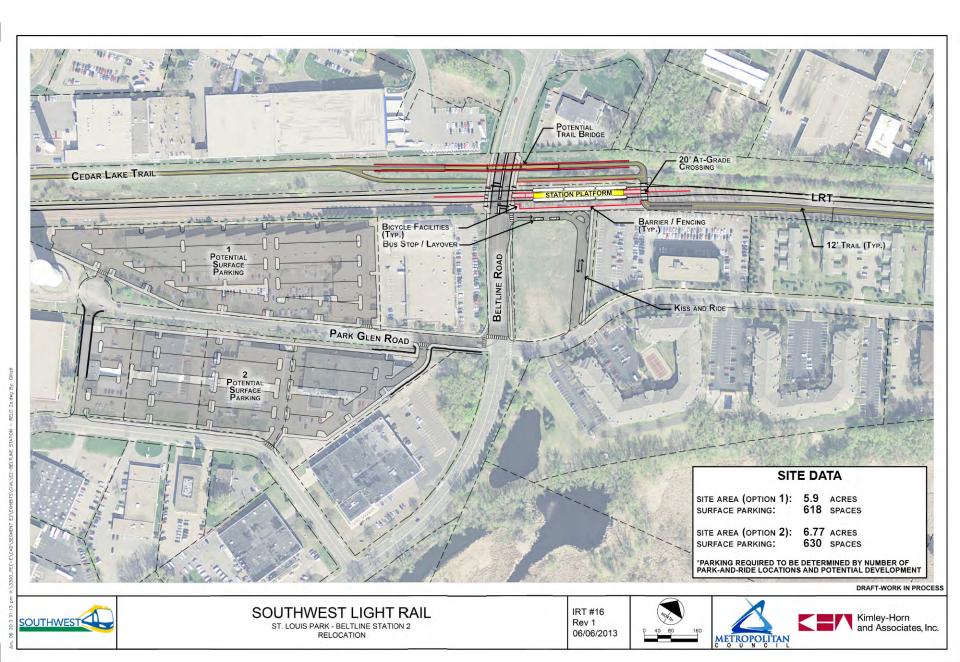


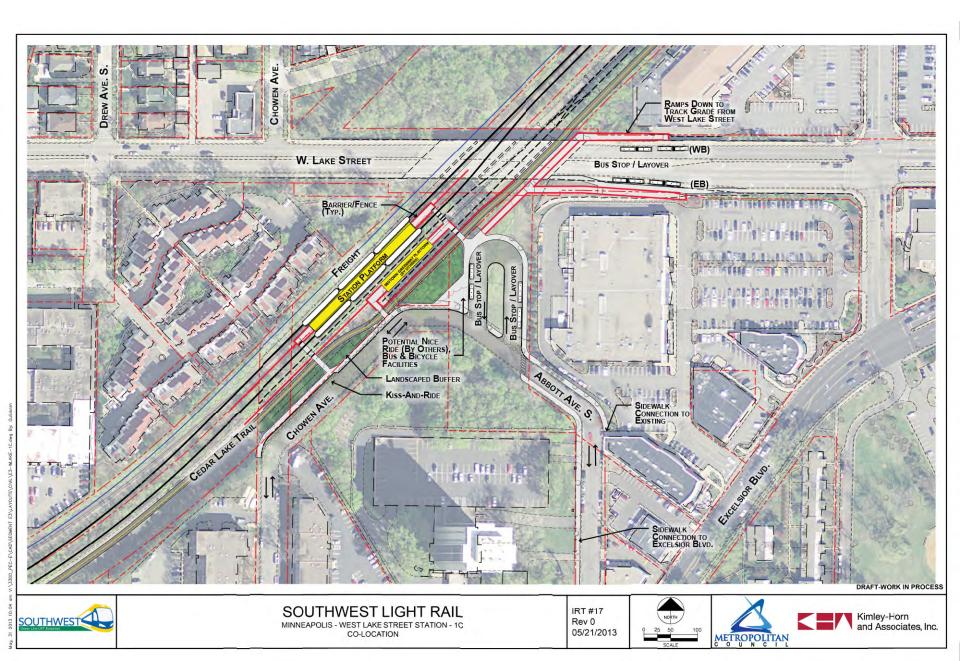


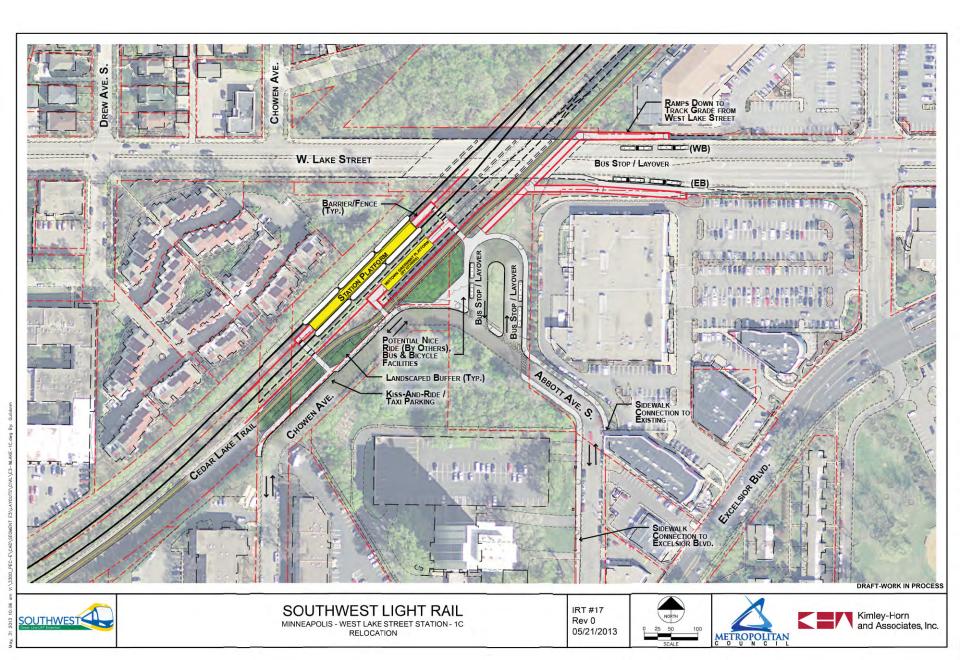


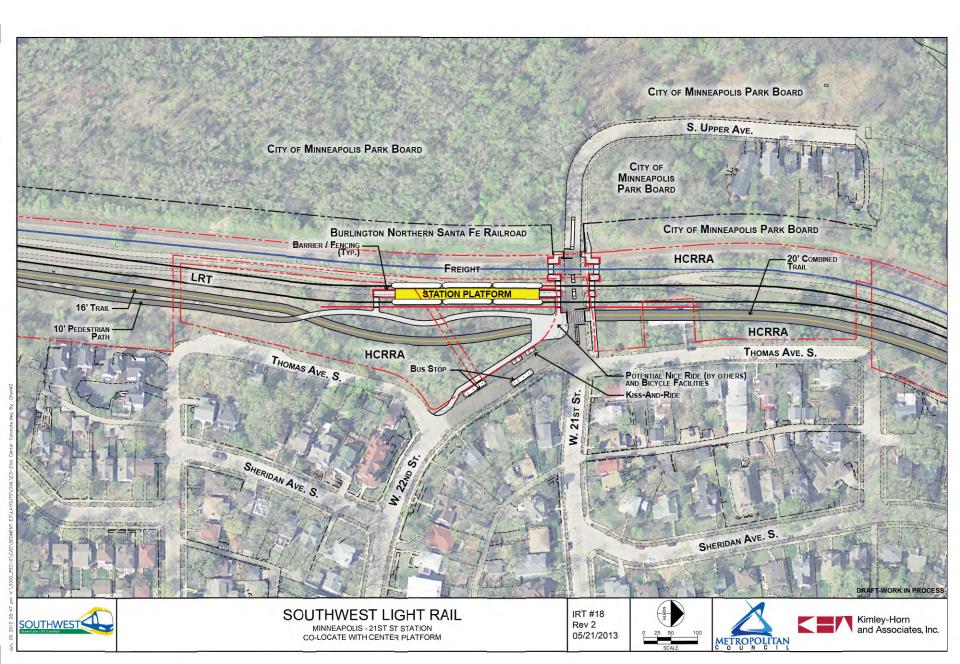


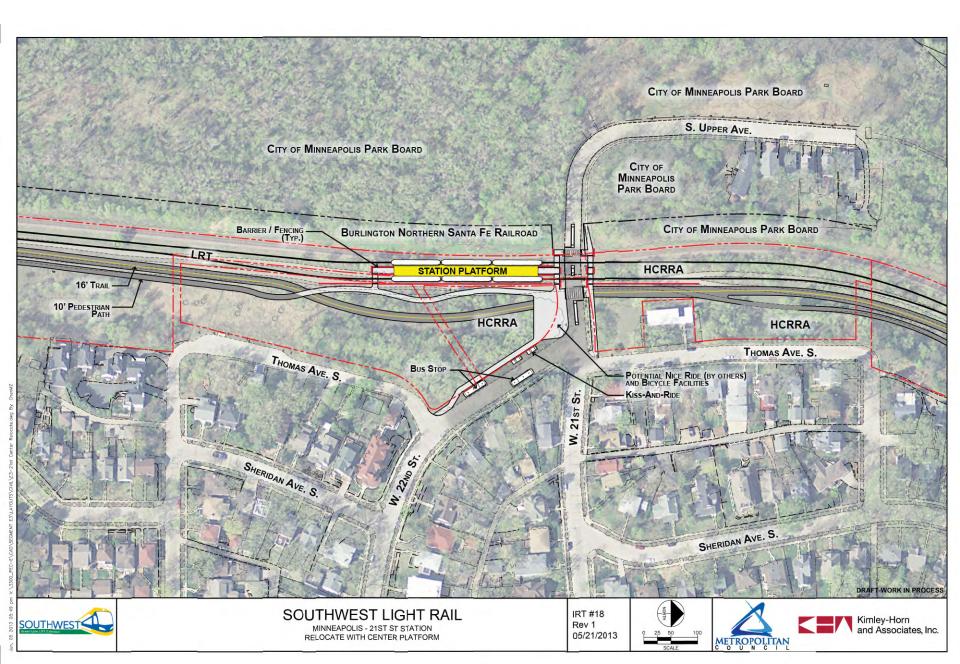


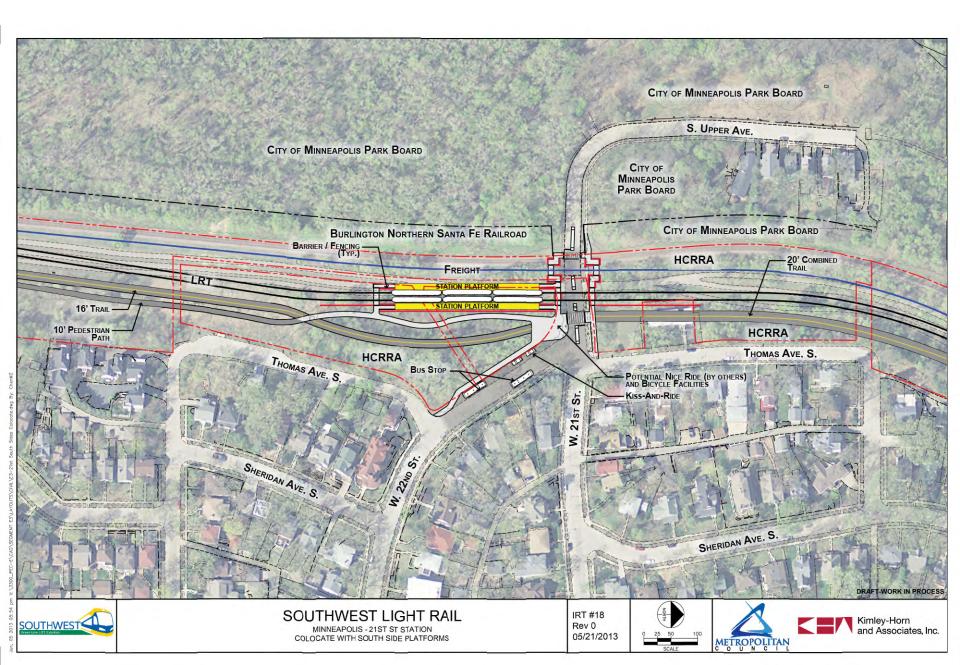


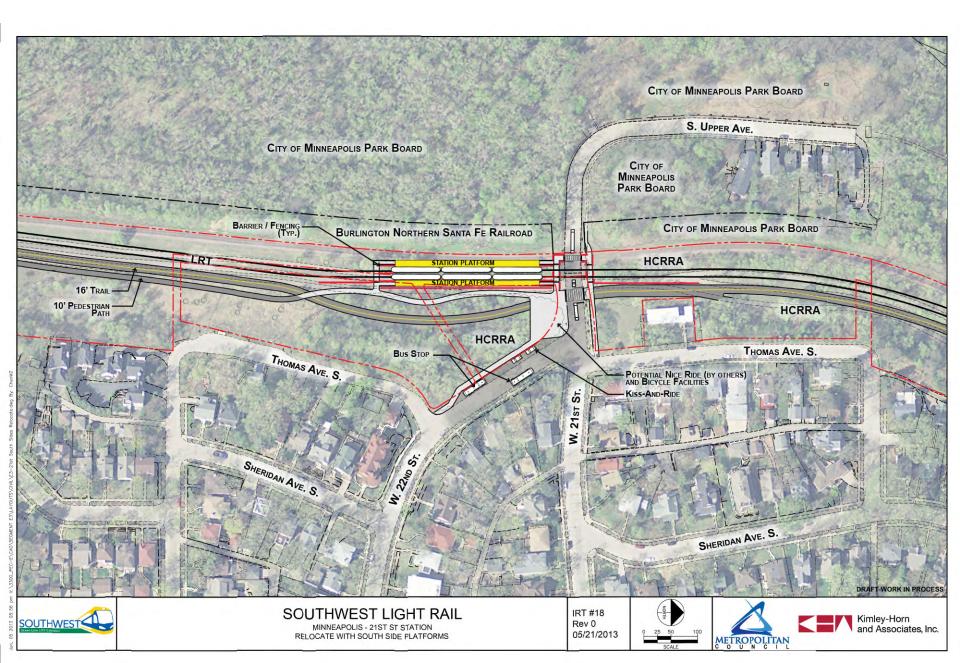














Feedback from You

- Please think about:
 - Location of the station and platforms
 - Bus, pedestrian and bike connections/access to the station
 - Parking and kiss and ride locations
 - Other ideas

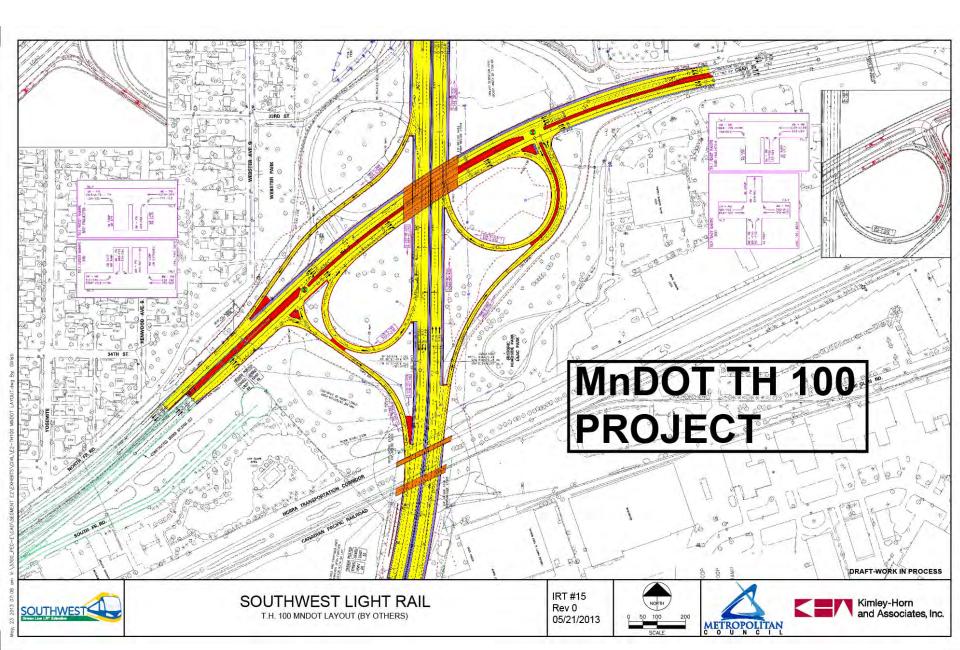


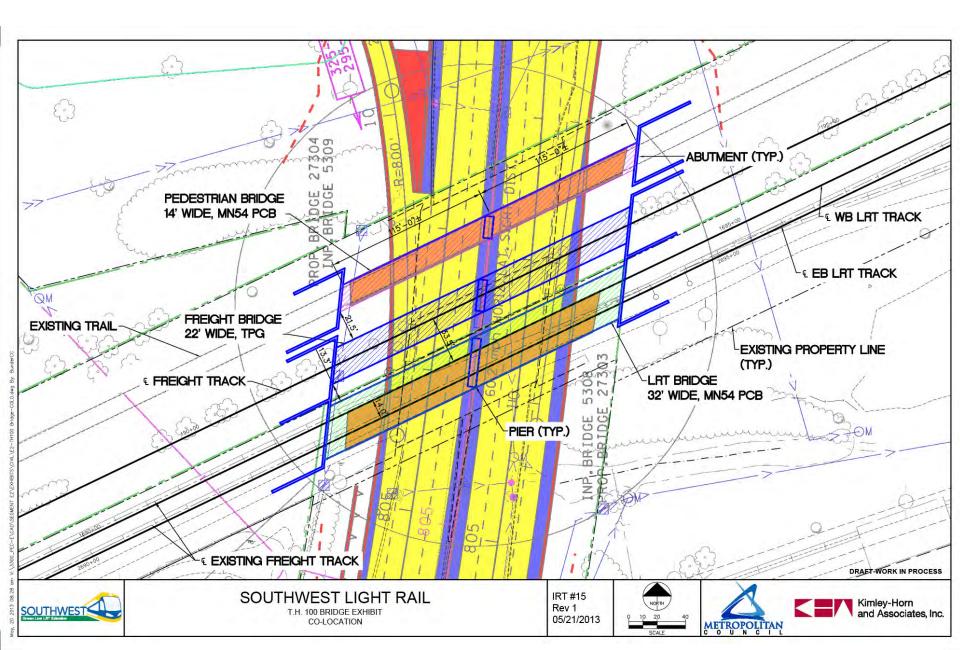


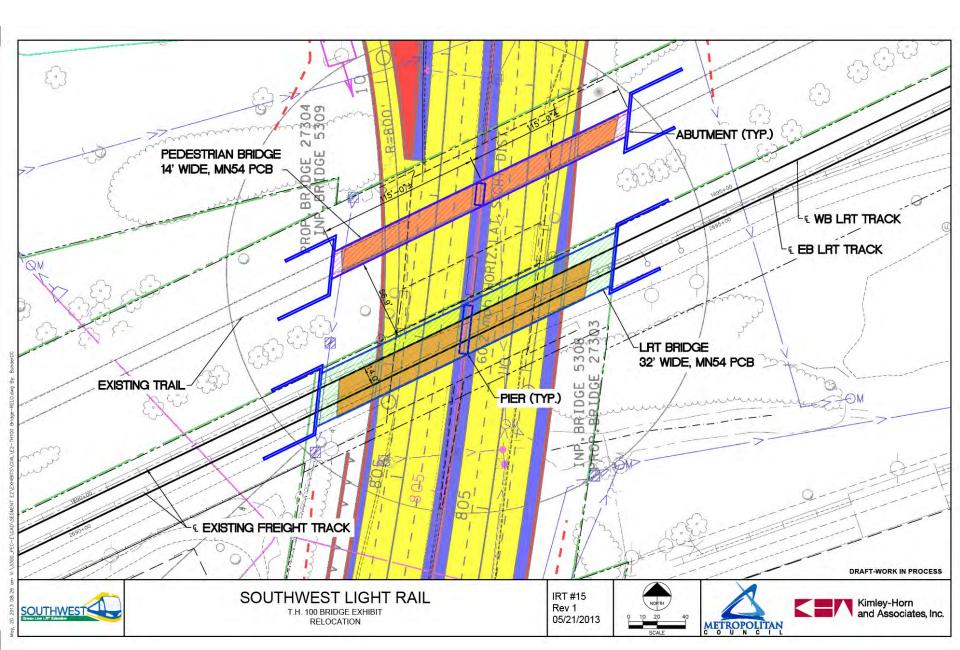
Technical Issues 15 and 18: TH 100 and Cedar Lake Parkway

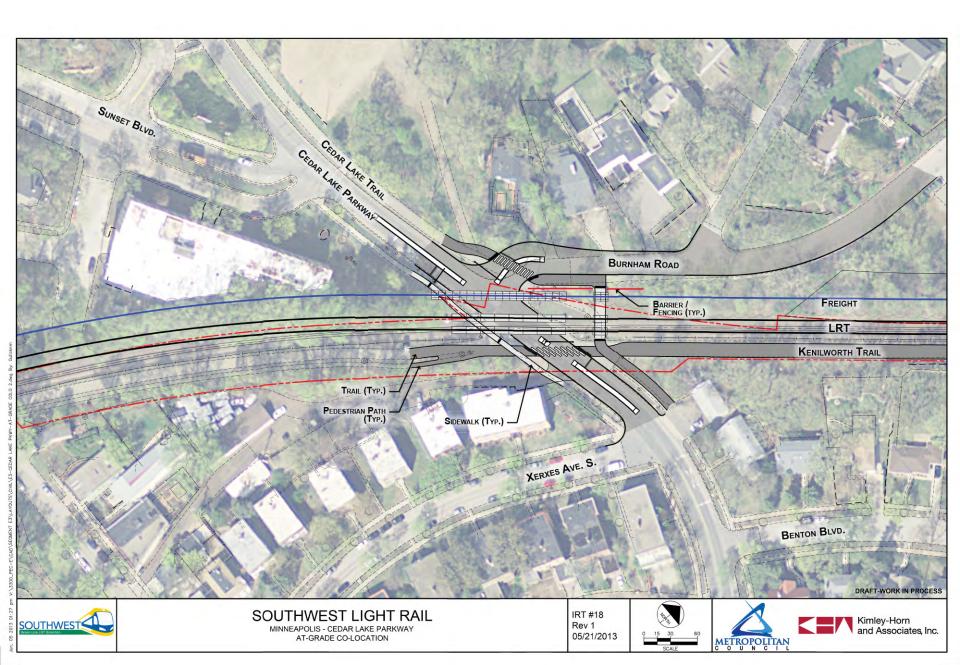


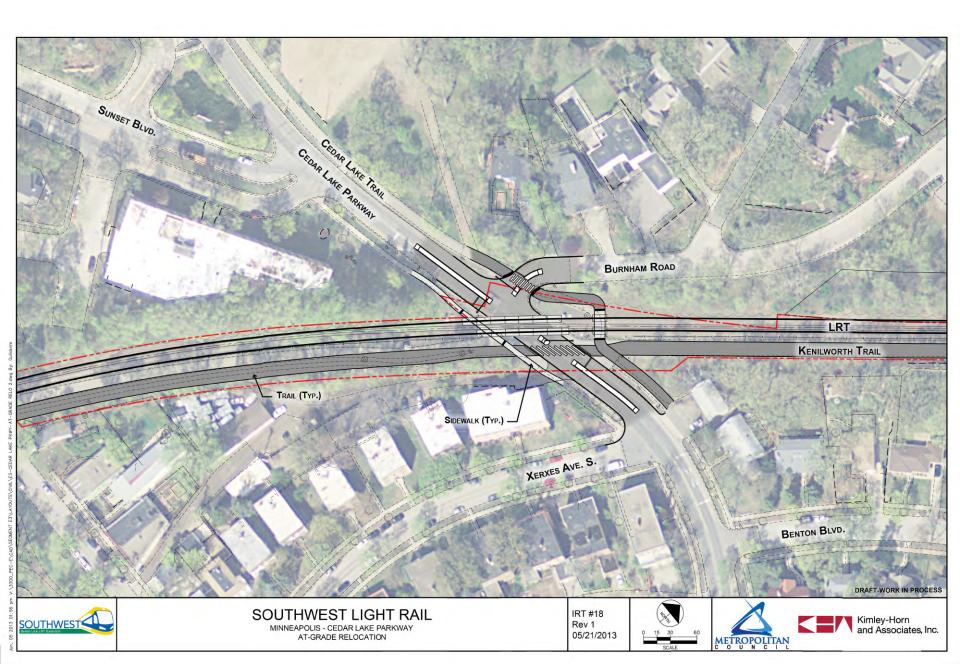
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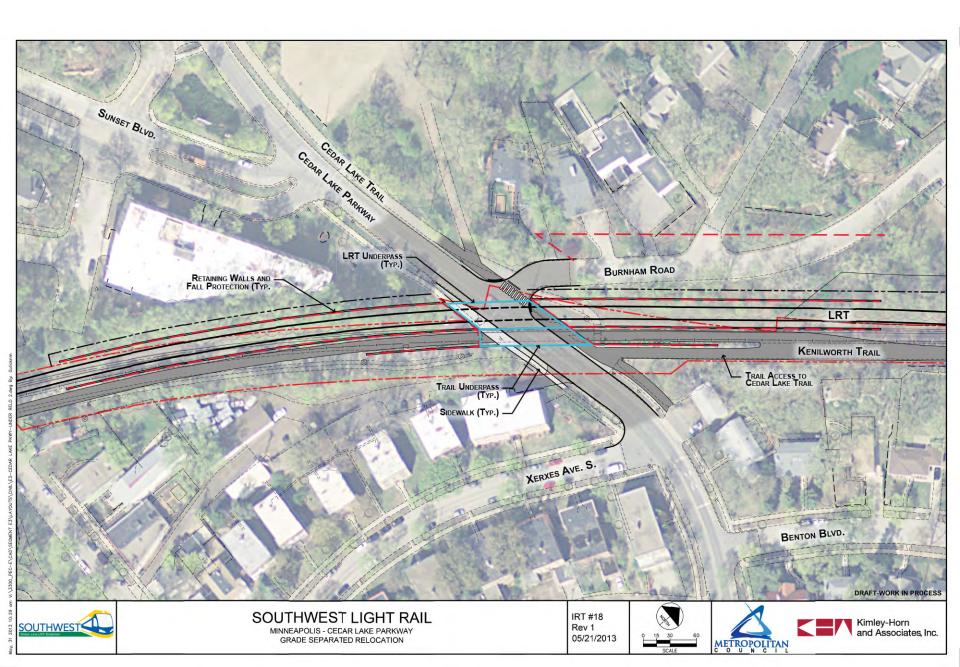














Feedback from You

- Please think about:
 - Potential opportunities of the proposed options
 - Potential challenges of the proposed options
 - Other ideas





Next Steps/Look Ahead: Design & Engineering

- June 2013: Hold Freight Rail and Station Public Open Houses
- Q3 2013: Submit Municipal Consent SWLRT Plans for City Review
- Q4 2013: Complete Municipal Consent Approval Process
- Q1 2014: Finalize 30% Design Plans and Specs

SWLRT Open Houses

- Freight Rail Open Houses: June 13
 - Location: Benilde-St. Margaret's School
 - 8:00 9:30 AM
 - 4:30 7:00 PM
- Station Open Houses: June 17 June 26
 - June 17: Minneapolis/Royalston (8:00 9:30 AM)
 - June 17: Minneapolis/Harrison (4:30 7:00 PM)
 - June 18: Minnetonka/Hopkins (4:30 7:00 PM)
 - June 20: St. Louis Park (4:30 7:00 PM)
 - June 24: Minneapolis/Kenilworth (4:30 7:00 PM)
 - June 26: Eden Prairie (4:30 7:00 PM)



Next Meeting

BAC: June 26

- Time: 8:00 9:30 AM
- Location: Southwest Project Office

• CAC: June 27

- Time: 6:00 8:30 PM
- Location: Southwest Project Office



St. Louis Park & Minneapolis Stations: Royalston, Van White, Penn, 21st St, West Lake, Beltline,

Wooddale, Louisiana



Sophia Ginis 612-373-3895 Sophia.Ginis@metrotransit.org

Minnetonka, Hopkins & Edina Stations: Blake, Hopkins, Shady Oak, Opus



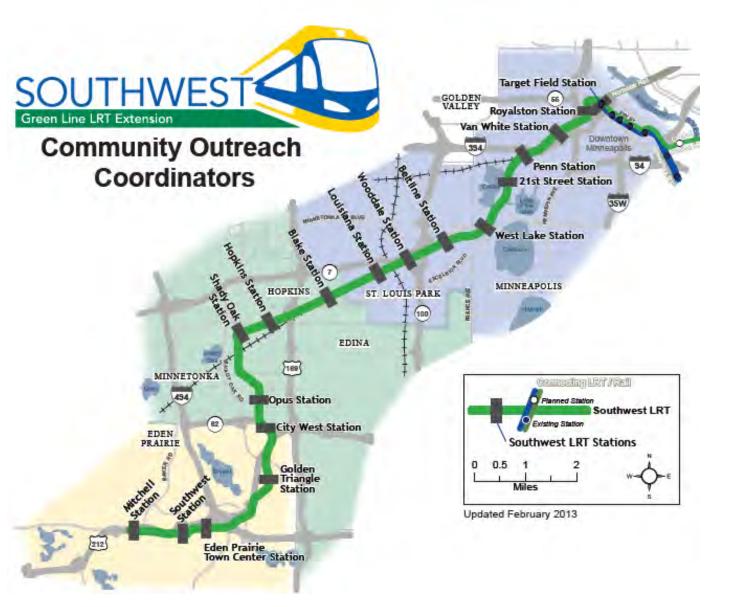
Dan Pfeiffer 612-373-3897 Daniel.Pfeiffer@metrotransit.org

Eden Prairie

Stations: City West, Golden Triangle, Eden Prairie Town Center, Southwest, Mitchell



Daren Nyquist 612-373-3894 Daren Nyquist@metrotransit.org





More Information

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