

Business Advisory Committee Meeting

February 26, 2014













Today's Topics

- Welcome & Introductions
- TC&W Railroad Company Presentation
- Project Update
 - Solution
 Draft Reports
 - § February Town Hall Recap
- Member and Committee Reports/Public Forum
- Adjourn





TC&W Railroad Company President Mark Wegner

Water Resources Draft Report Discussion

Independent Consultant's Draft Conclusions / Recommendations

- No fatal flaws with the shallow LRT tunnel design
- Add lateral and nested piezometers
- Collect seasonal water level data
- Complete a comprehensive capacity analysis for sanitary and storm sewer systems
- Design the underground infiltration chambers for the 100-year design storm event



Independent Consultant's Draft Recommendations (continued)

- Incorporate stormwater pre-treatment devices in the design
- Complete a Phase II Environmental Site Assessment
- Revise the draft Water Monitoring Plan
 - 5 Determine key monitoring locations
 - 5 Define parameter and threshold criteria
 - Monitor infiltration chamber system
 - Sample groundwater quality near chambers and sites in the corridor away from the chambers
- Sample and analyze groundwater for hydrocarbons, chlorides, other potential contaminants



Barr Engineering Memo

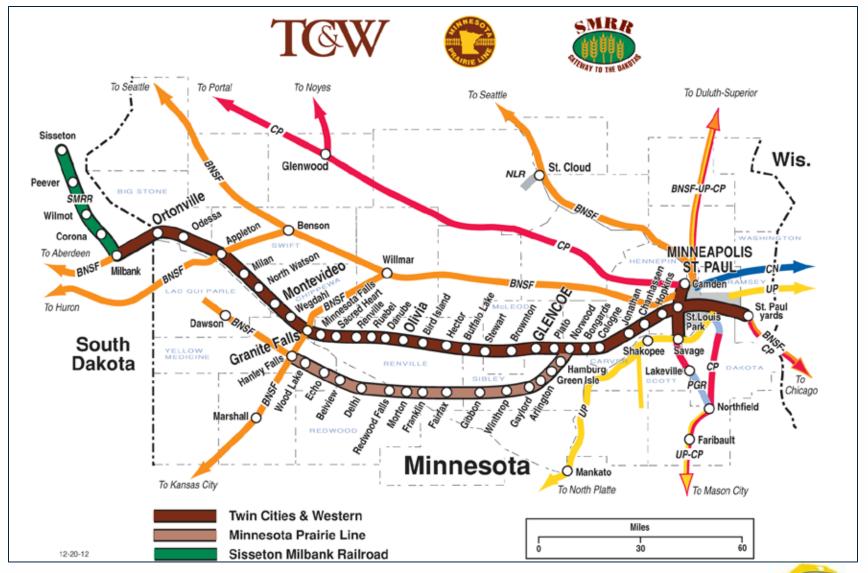
- Prepared for City of Minneapolis and MPRB
- Received by SPO Jan. 16, 2014
- Issues and Questions in Memo
 - § Effectiveness of sheet pile sealing and seal pour performance
 - § Groundwater and surface water
 - § Proposed bored twin tunnels
 - § Ground movements and impacts to adjacent structures
 - Vibration impacts of freight and LRT on shallow LRT tunnels
 - Maintenance considerations
- Response sent to City and MPRB Feb. 14, 2014



Freight Rail Relocation Draft Report Discussion

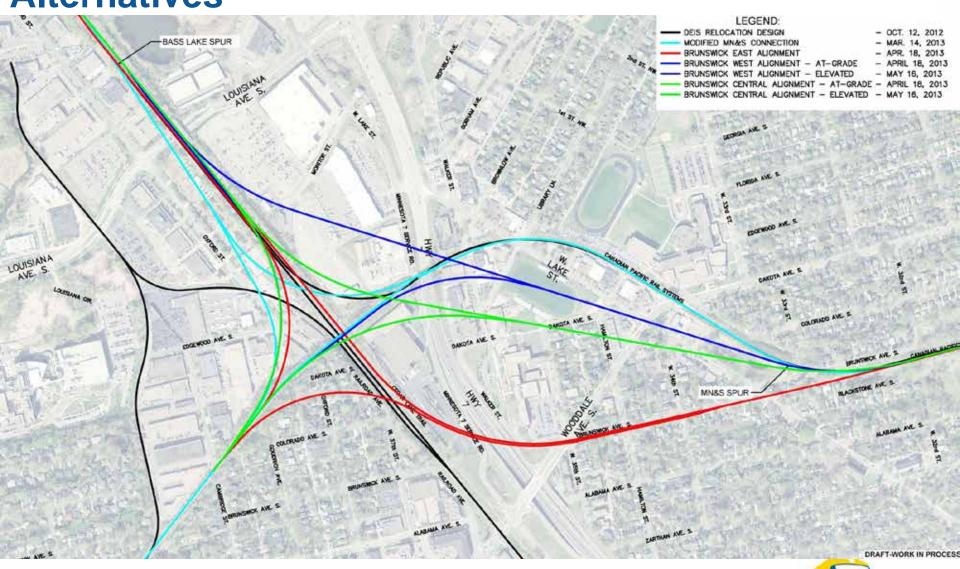


TC&W Railroad Network





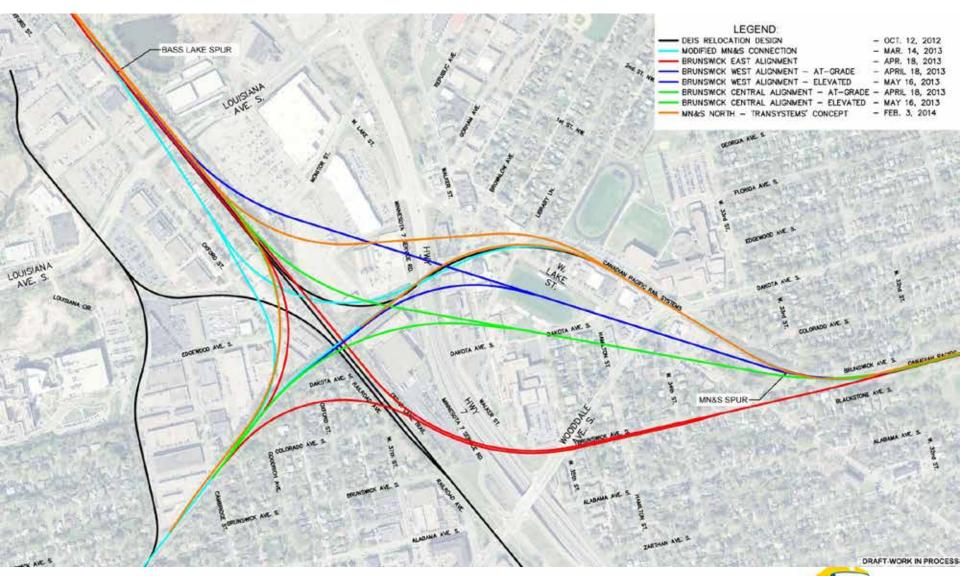
DEIS & SPO Freight Rail Relocation Designs Alternatives

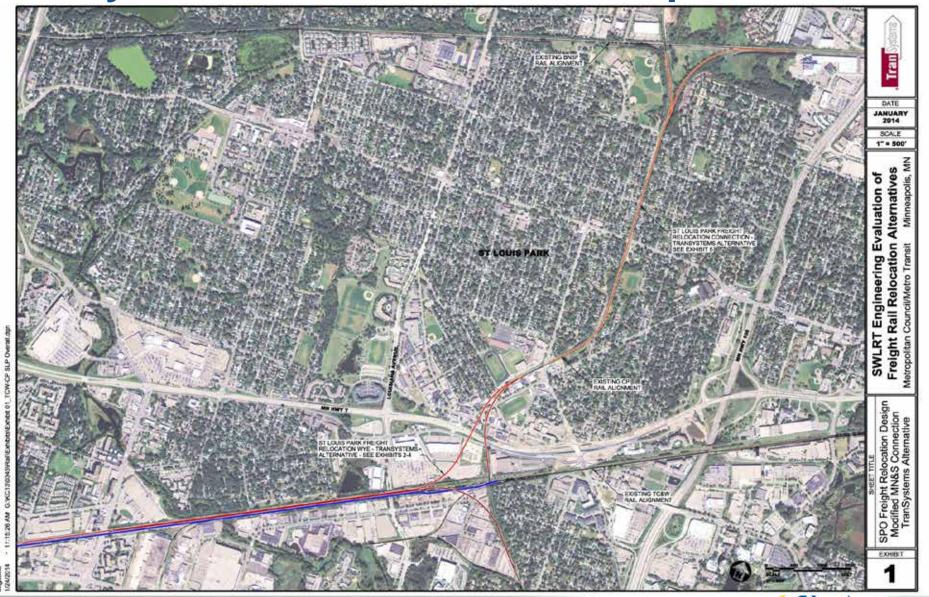


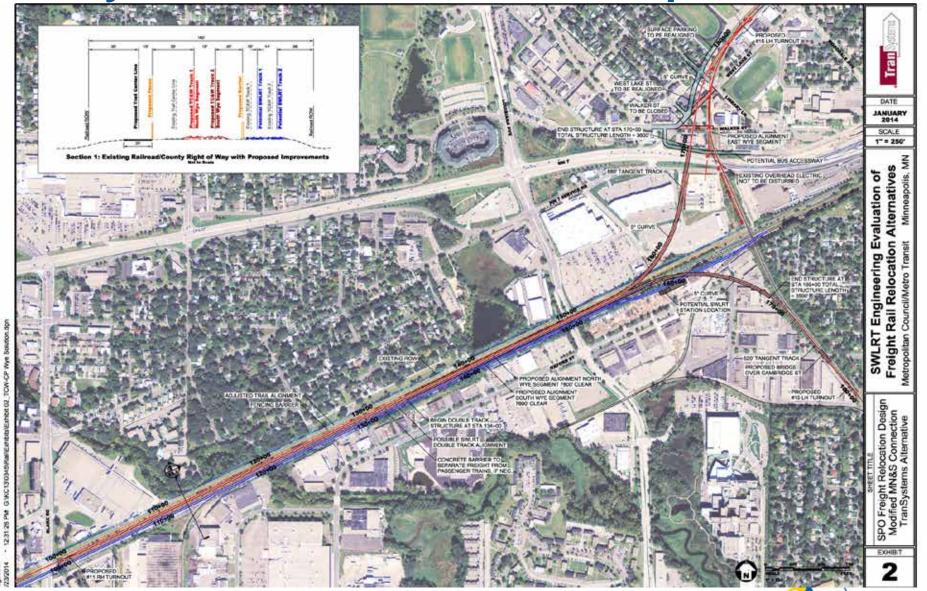
TranSystems' Draft Report Preliminary Conclusions

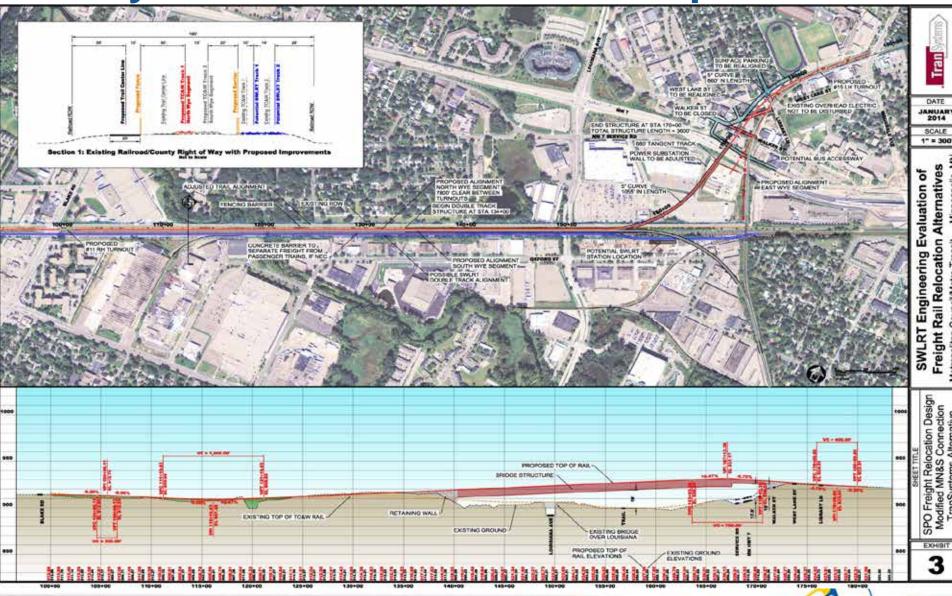
- Identified two viable routes
 - § Kenilworth Corridor (current route)
 - § MN&S North concept

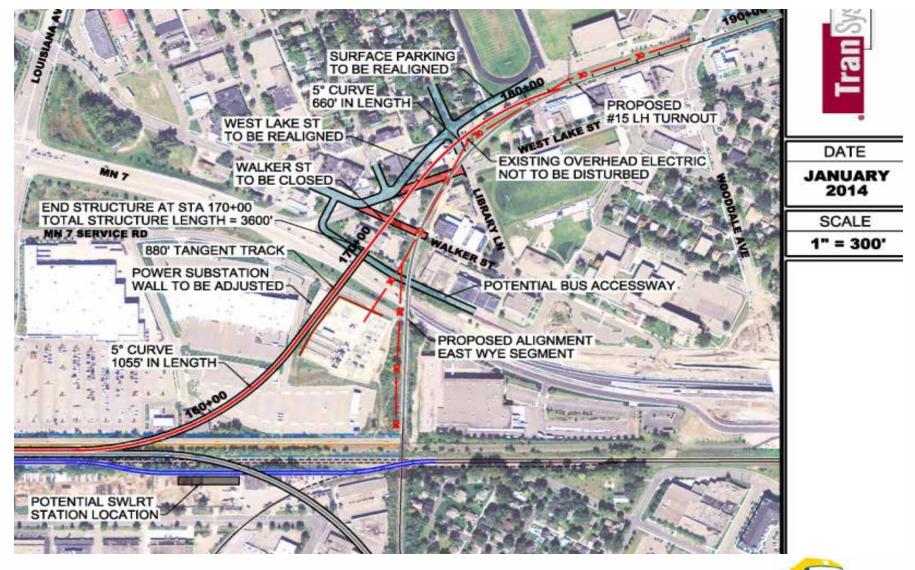


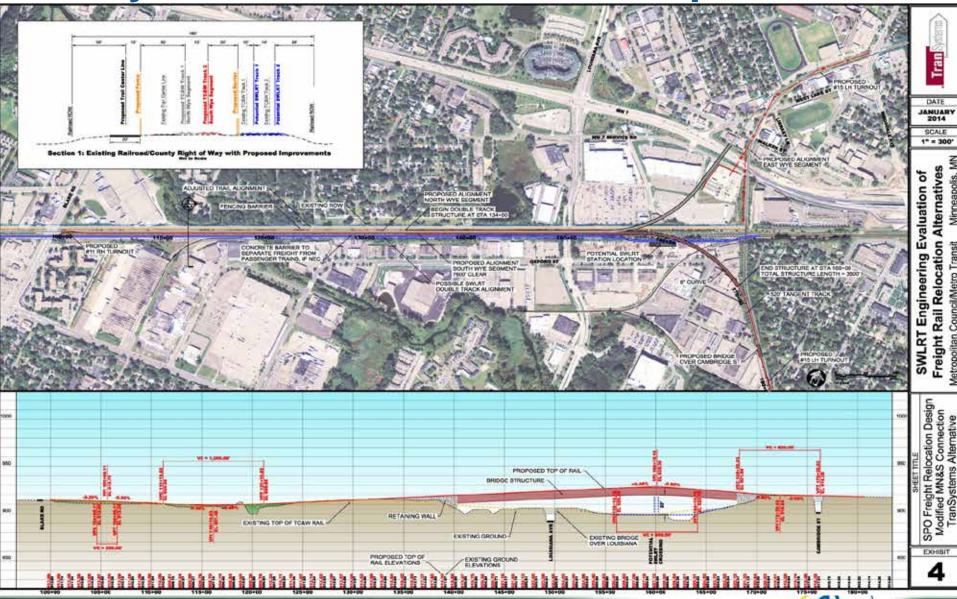


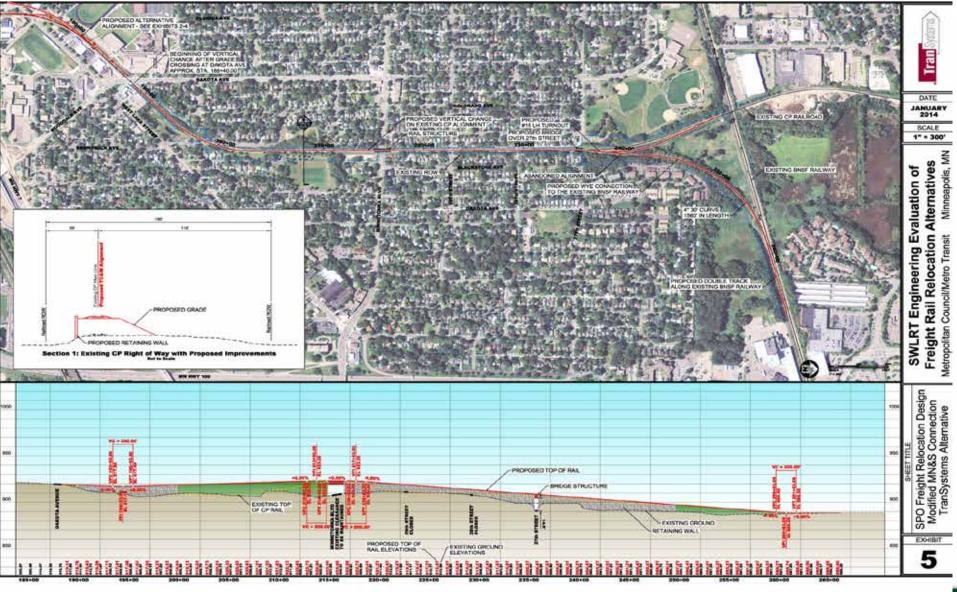












Freight Rail Relocation Draft Report Discussion

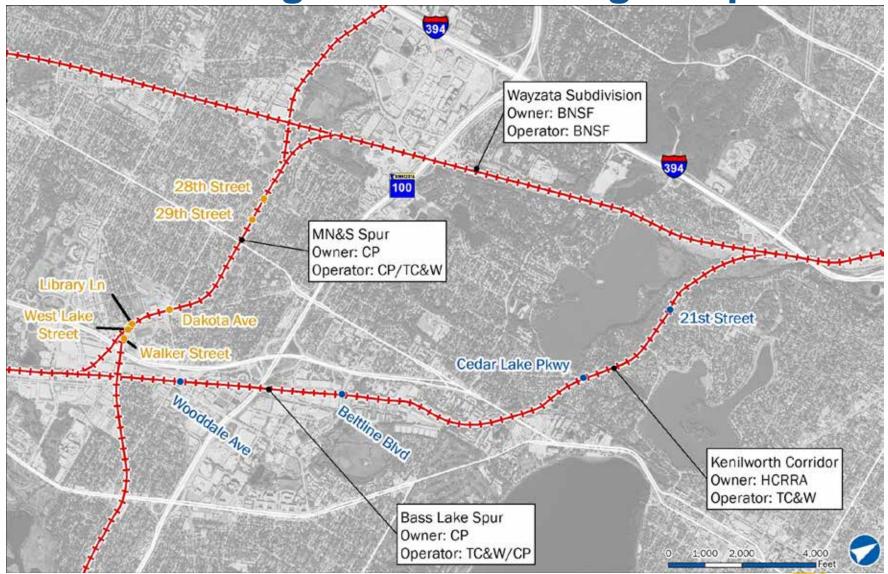
- Safety considerations
- Property impacts
- Cost
- Operational considerations



Safety Considerations



At-Grade Freight Rail Crossings Map



At-Grade Freight Rail Crossings Comparison

Element	Kenilworth Route	MN&S North Route
Existing No. Crossings	4•Wooddale•Beltline•Cedar Lake•21st	• Walker • Library • Lake • Dakota • 29 th • 28 th
Proposed No. Crossings	4•Wooddale•Beltline•Cedar Lake•21st	LibraryDakota

At-Grade Freight Rail Crossings Comparison

Element	Kenilworth Route	MN&S North Route
TranSystems Average Daily Traffic (ADT)	22,000	14,000
SPO 2013 ADT	33,600	15,000
TranSystems Average Daily Trains One Way	5	7
SPO Average Daily Trains One Way	3	5



Proximity to Schools and Residential Units

Element	Kenilworth Route	MN&S North Route
TranSystems No. of schools within 150' of tracks	0	2
SPO No. of schools within 150' of tracks	0	2
TranSystems No. of residential units within 150' of tracks	367	140
SPO No. of residential units within 150' of tracks	SLP: 250 MPLS: 500	

Property Impacts



Property Impacts Requiring Relocation Comparison

Full Permanent Acquisition*	Kenilworth Route	MN&S North Route
Residential	0	6
Private Business**	0	7
School***	0	1

^{*} Numbers do not include acquisitions required for Southerly Connection, which are common to both routes



^{**} Includes STEP Food Shelf property

^{***} Metropolitan Open School

Cost



Cost Terminology

- \$2013: Capital improvement costs
 - Sased on 2013 unit costs
- \$YOE: Year of expenditure costs
 - § Includes:
 - Capital improvements and ROW based on 2013 unit costs
 - Contingency costs
 - Design related costs



Kenilworth Corridor Shallow LRT Tunnels

Element	\$YOE (M)
Base Costs	\$150 – \$160
Common Elements	\$85 - \$90
TOTAL	\$235 - \$250

- Common elements' primary cost drivers:
 - § Freight rail track
 - Freight rail bridges
 - S CP ROW swap
 - Southerly connection (Bass Lake Spur to MN&S Spur)

TranSystems' MN&S North Concept Cost Estimate

Element	\$2013 (M)
Capital Improvements	\$60
Common Elements	\$26
Right-of-Way	\$0*
Engineering (5%)	\$4
Contingency (25%)	\$22
TOTAL	\$112

^{*} TranSystems' estimate does not include ROW costs



TranSystems' MN&S North Concept Cost Estimate: SPO Identified Additions and Adjustments

- Right-of-Way in \$2013:
 - § Add \$20-\$25M
- Additional Common Elements in \$2013:
 - § Add \$40-\$45M:
 - Freight track from TH 169 to Blake
 - CP ROW swap (ROW cost)
 - Southerly connection (ROW cost)
- Adjust engineering and contingency:
 - § Add \$35-\$40M
- Adjust to \$YOE:
 - § Add \$15-\$20M



TranSystems' MN&S North Concept Cost Estimate

Element	Original \$2013 (M)	Adjusted (M)
Capital Improvements	\$60	\$60*
Common Elements	\$26	\$65-\$70*
Right-of-Way	\$0	\$20-\$25*
Engineering/Contingency	\$26	\$60-\$65*
YOE	\$0	\$15-\$20
TOTAL	\$112	\$220 - \$240

^{* 2013} Costs



TranSystems' MN&S North Concept Unaccounted Costs

- Additional retaining walls for LRT
 - § Blake to Louisiana
- Additional Right-of-Way
 - Skunk Hollow Rail Customer
 - § Property along North Frontage Road
 - § 27th Street Properties
- Freight track removal Bass Lake Spur/Kenilworth
 - MN&S to Cedar Lake Junction
- North Cedar Lake Trail Bridge (Iron Triangle)
- Xcel Substation Impacts



Cost of Project Delay

- The cost of project delay assumptions:
 - § \$1.553 B project
 - § 3% escalation per year
 - § \$45 \$50 M



Freight Rail Cost Comparison (\$YOE)

Element	Kenilworth Route (M)	MN&S North Route (M)
Base Costs	\$150 – \$160	\$130 - \$140
Common Elements	\$85 - \$90	\$90 - \$100
TOTAL	\$235 - \$250	\$220 - \$240

February Town Hall Community Meetings



February 10 & 12 Town Hall Community Meetings

- Opportunity to:
 - § Ask questions and provide verbal testimony on draft water resources and freight rail relocation studies
 - § Share community concerns with public officials
- 625+ attendees

75+ written comments received



February 10 and 12 Town Hall Meetings

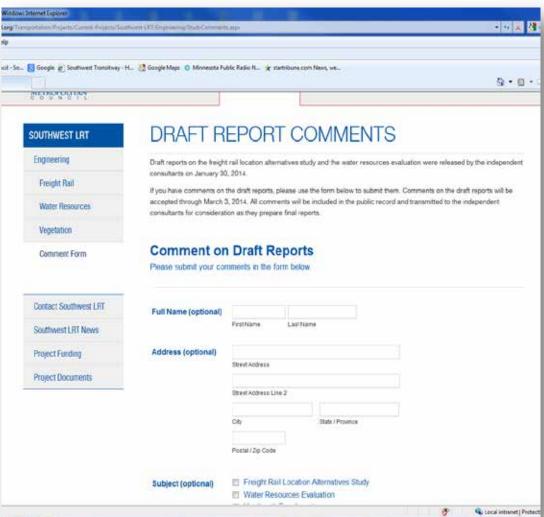


February 10 and 12 Town Hall Meetings



Comments on Draft Reports Due March 3, 2014

- Online: www.SWLRT.org
- Email: <u>SWLRT@metrotransit.org</u>
- U.S. Mail
- Filling out a comment card



Next Steps

- Independent consultants publish final reports
- SWLRT Corridor Management Committee recommends project scope and budget to the Met Council
- Met Council votes on project scope and budget
- Met Council submits Municipal Consent plans to cities/county

Member and Committee Reports/ Public Forum

Member and Committee Reports

- CMC Update
- BAC Representative on CMC
- Response to LRT Done Right Letter



More Information

Online:

www.SWLRT.org

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SWLRT@metrotransit.org

Twitter:

www.twitter.com/southwestlrt

