

Committee of the Whole January 30, 2008

Improving mobility

Easing congestion

Strengthening our communities



Today's Agenda



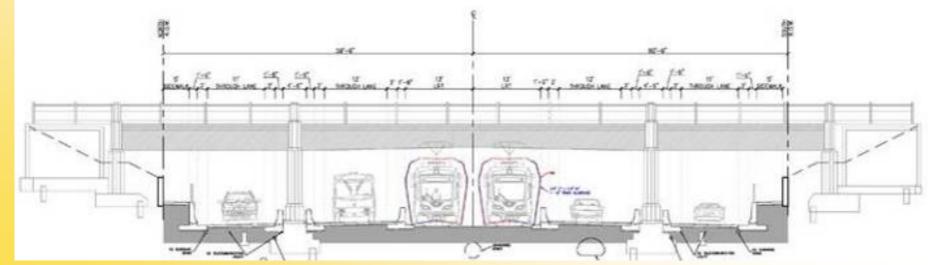
- Bridges
- 2 or 3-car trains/platforms
- Reconstruction of right-ofway
- Traffic signals and pedestrian crossings
- Design Criteria



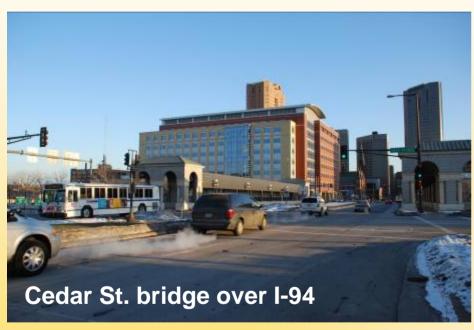
Bridges

Minnesota Commercial Rail Road Bridge





Bridges in St. Paul







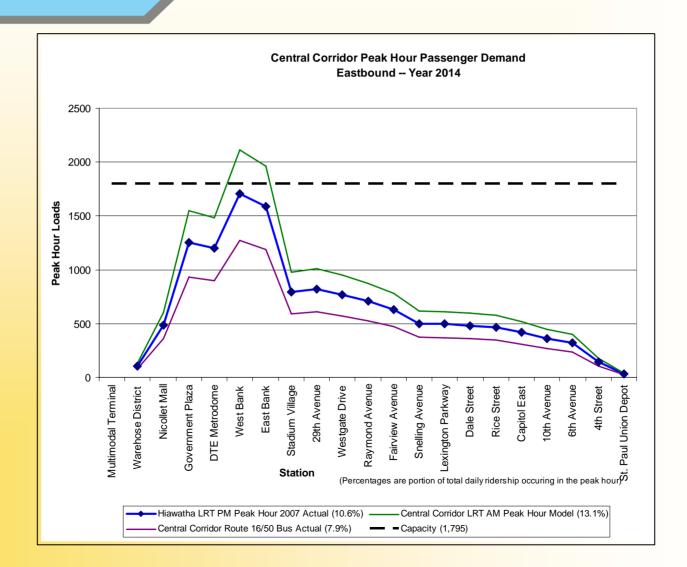
2 or 3-car Trains and Platforms

2 or 3-Car Trains and Platforms

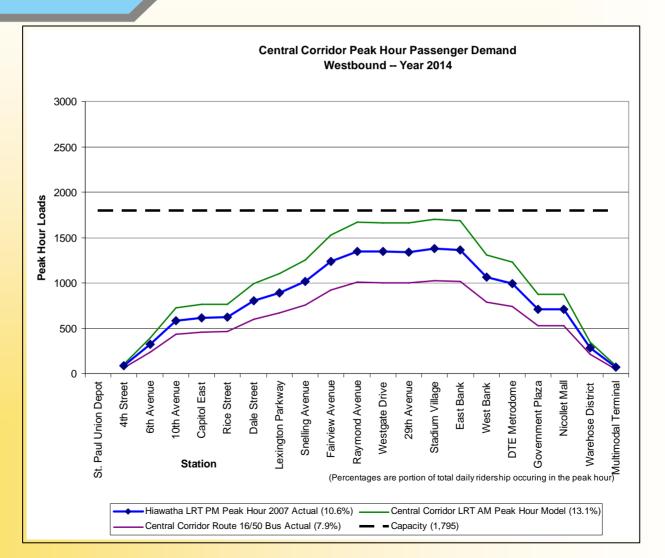


- 2-car train capacity
- Peak hour passenger demand
- Capacity is adequate in 2014
- 2-car platforms adequate in short-term
- Need 3-car platforms in longterm

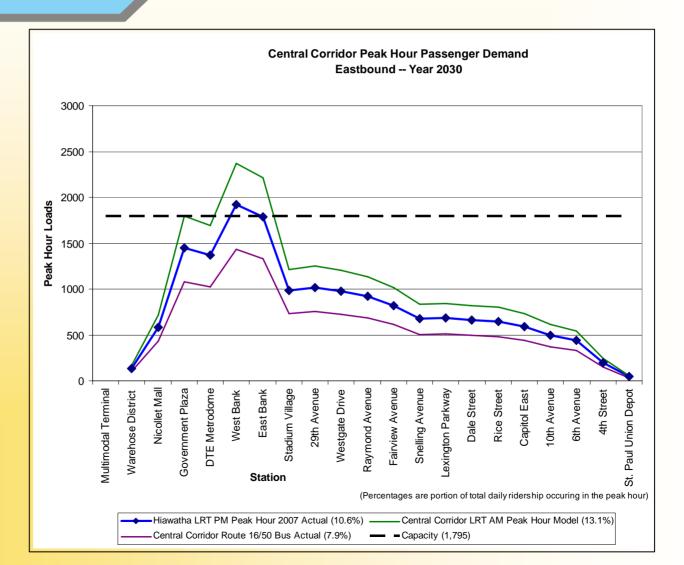
Peak Hour Passenger Demand Eastbound -- Year 2014



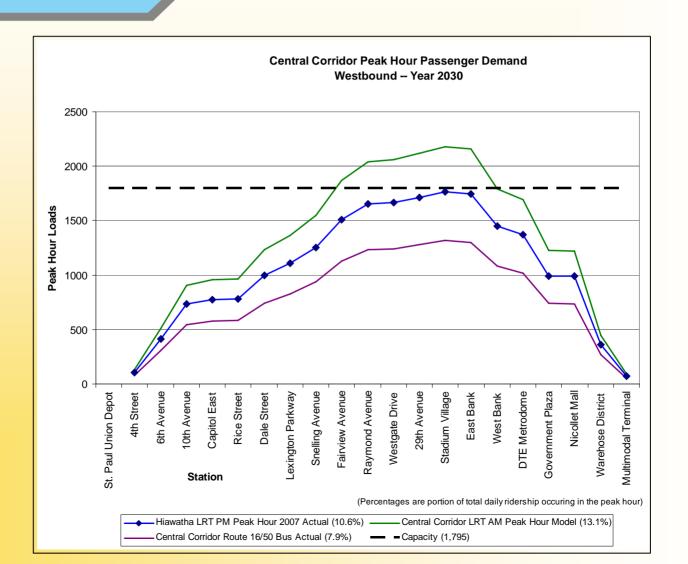
Peak Hour Passenger Demand Westbound -- Year 2014



Peak Hour Passenger Demand Eastbound -- Year 2030



Peak Hour Passenger Demand Westbound -- Year 2030





University Ave. Reconstruction, Traffic Signals and Pedestrian Crossings

University Ave. Reconstruction



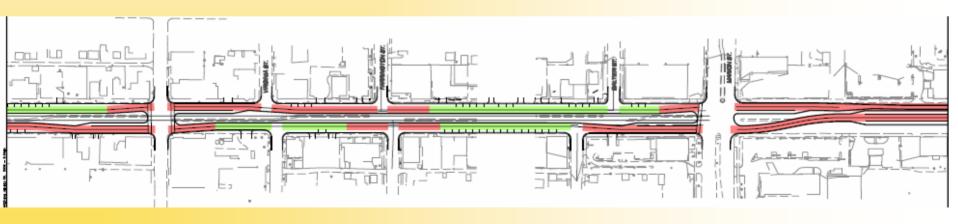
DEIS

- Assumed full reconstruction including street, curb and sidewalk
- Preliminary Engineering findings
 - Roadway condition
 - Amount of impacted curb/sidewalk
 - Utility relocations
 - Storm water issues

University Ave. Reconstruction

University Avenue	Westbound (north curb)		Eastbound (south curb)		Total	
(1) UNAFFECTED	3,850 LF	15%	3,815 LF	15%	7,665	15%
(2) AFFECTED	21,750 LF	85%	21,685 LF	85%	43,435	85%
Total Length	25,600 LF	100%	25,500 LF	100%	51,100	100%

- UNAFFECTED Length of curb and sidewalk unaffected by the LRT construction (shown as GREEN in the graphic – Appendix C)
- (2) AFFECTED Length of curb and sidewalk affected by the LRT construction (shown as RED in the graphic Appendix C)



University Ave. Reconstruction



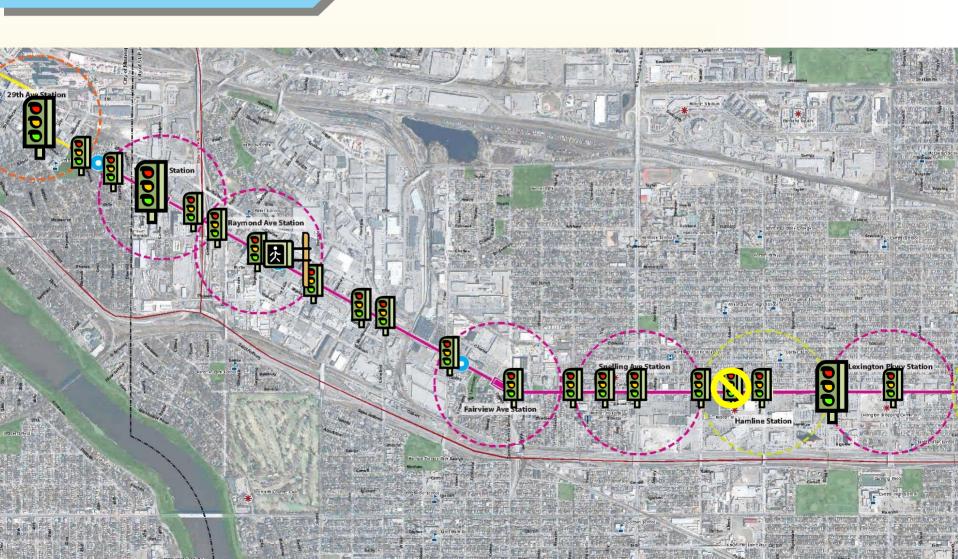
- Mill & overlay vs. full reconstruction
 - Savings \$24-27 Million
 - Reduces construction time and impacts
- Curb & sidewalk replacement
 - Local cost share

University Ave. Reconstruction Next Steps

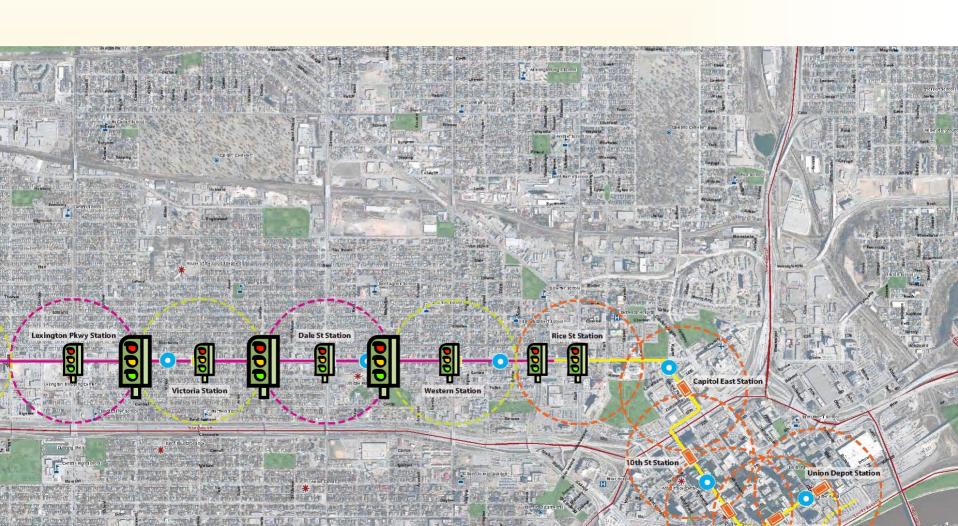


- Continued soil borings
- Utility impacts
- Review section from 29th Ave. to city limits (Mpls. Section)

Traffic Signals on University



Traffic Signals on University



Traffic Signals on University



- Left turns
 - Protected phasing (green arrow)
 - U turns
- Cross street signal phasing
- Pedestrian accommodations
 - Accessible pedestrian signals

Traffic Signals on University Priority vs. Pre-Emption



- Hiawatha operation
- Signal priority for LRT
- Cross street impacts

Traffic Signals on University Next Steps



- VISSIM traffic modeling
 - Cross streets
 - LRT travel time
- Hardware and software specifications
- Continue evaluation in downtown Mpls. and downtown St. Paul

University Avenue Pedestrian Crossings



- Signalized Crossings
 - ¼ Mile Spacing
 - "Walk/Don't Walk"
 - Pedestrian Activation

University Avenue Pedestrian Crossings

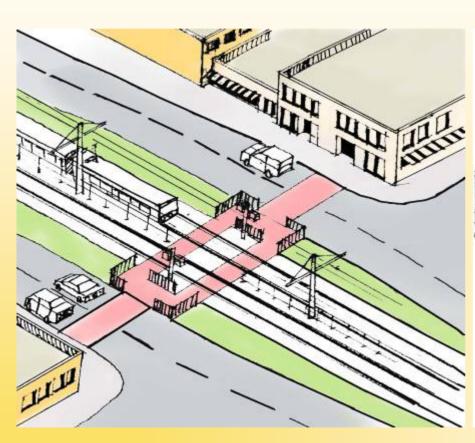


- Unsignalized Crossings
 - 1/8 mile spacing
 - Street crossing vs. track crossing
 - Active warning devices
 - Impacts to on-street parking

University Avenue Pedestrian Crossings Possible Spacing



University Avenue Pedestrian Crossings Possible Designs







Design Criteria

Design Criteria



- Update to current codes, laws and regulations
- Increase emphasis on local standards
- Standardize stations

Design Criteria



- Increase emphasis on providing safe and consistent access and crossing opportunities
- Comply with Homeland Security guidelines
- Add inter-operability features for safety at Hiawatha and Central Corridor connection

More Information



Check out our website:

www.centralcorridor.org

Contact Central Corridor Project Office:

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