



Corridor Management Committee

June 15, 2017



Today's Topics

- Approval of Meeting Minutes
- Chair's Update
- Traffic Signal Coordination
- 60% Plans Update
 - Advanced Construction: Bassett Creek Storm Sewer Relocation
- Project Schedule Update



Chair's Update



Traffic Signal Coordination



Introduction

- Automatic Block Signaling (ABS) LRT Operation
 - Freight railroad corridor
 - Corridor is separated into sections or “blocks” and LRV spacing and movements are controlled with a series of automatic rail signals
- Bar Signals: Line-of-Sight LRT Operation
 - Olson Memorial Hwy and W Broadway Ave
 - Bars signals, which are part of the traffic signal system, control LRV movements through intersections



Transit Signal Priority and Preemption

- Transit Signal Priority (TSP)
 - Changes to traffic signal timing to assist the efficient movement of transit vehicles
- Preemption
 - Typically associated with Emergency Vehicle Preemption (EVP) or Railroad Preemption



Transit Signal Priority and Preemption

A spectrum from priority to preemption

Priority

Preemption

Coordinated
Timings

Early/Extended
Green

Modified
Signal Sequence

Disrupted
Coordination

Skipped Left-Turn or
Pedestrian Movements

Automatic
Gates



Transit Signal Priority and Preemption

- 23 intersections controlled by bar signals
 - Example: Olson Memorial Hwy and Penn Ave
- 8 highway-railroad grade crossings with automatic gates
 - Example: Corvallis Ave-railroad grade crossing
- 3 highway-railroad grade crossings with automatic gates and traffic signal preemption
 - Example: Bass Lake Rd-railroad grade crossing

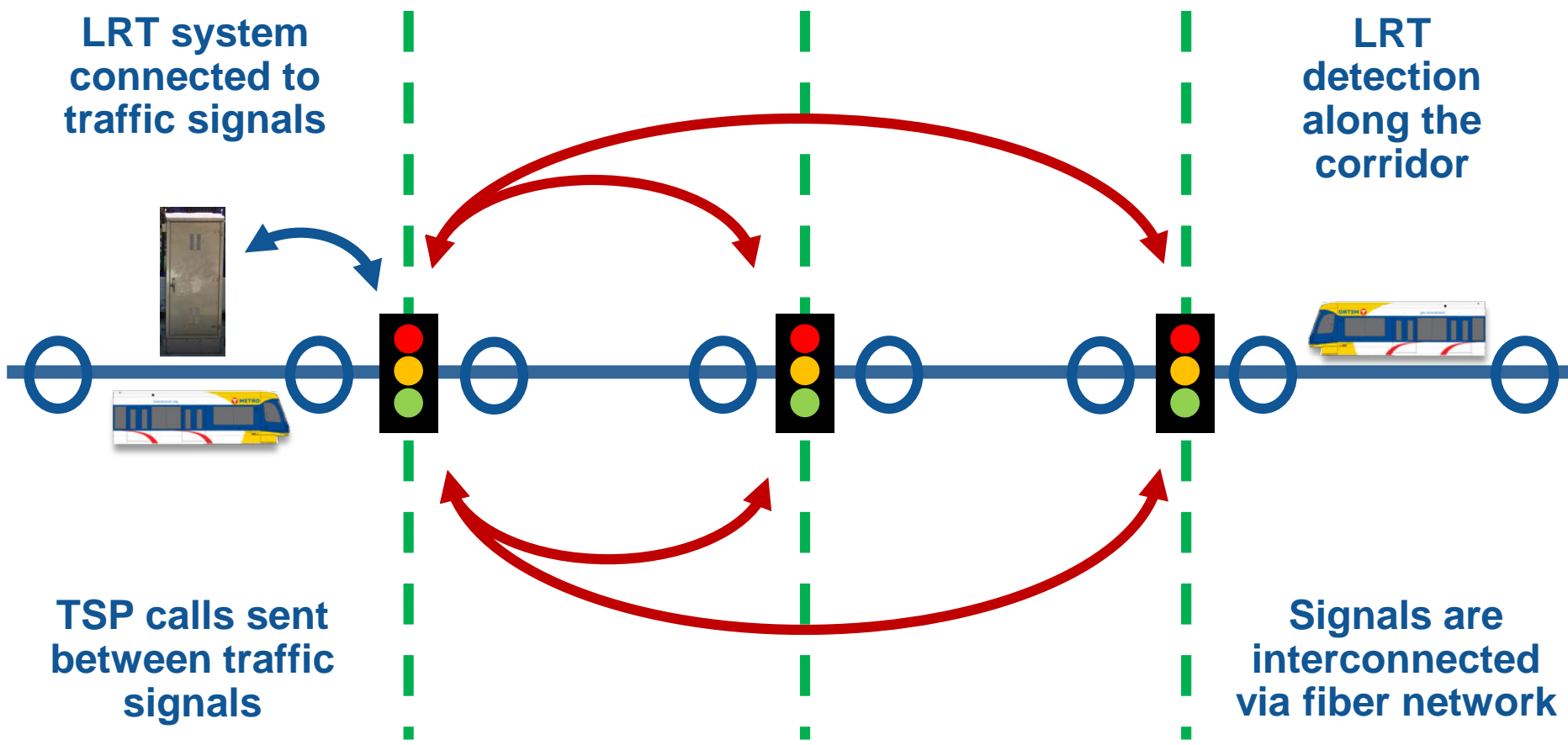


Transit Signal Priority and Preemption

- TSP Goal: Provide **efficient** and **reliable** transit travel times without unduly impacting other modes
- Each intersection is evaluated to determine the appropriate level of priority
 - LRT needs
 - Pedestrian and bicycle needs
 - Vehicle traffic needs
- Technology advances continue to improve TSP capabilities



BLRT Operations



Predictive Priority

- Use LRT detection upstream
- Serve LRT phase when the LRV arrives at the intersection, if possible
 - EVP overrides LRT call
 - Pedestrian clearance always served
 - Minimum vehicle phases always served
- Controllers can serve other phases with demand immediately after LRV clears
 - Gives left-turn and cross street traffic more opportunities to be served, especially during longer cycle lengths



Next Steps

- Design a robust detection system
 - Provides flexibility in operations
- Investigate signal controller capabilities during design and operations planning
- Work with operating agencies to identify operational priorities and understand tradeoffs
- Use a data-driven approach to identify impacts and determine if adjustments are needed



60% Plans Update



Design: 60% Plans Update

- Completed May 10
- Plans shared with project partners for review and comment
- Comments are being addressed and changes will be included in 90% plans
- Design details to resolve prior to 90% plan production
 - Robbinsdale Park and Ride
 - Oak Grove Park and Ride
 - West Broadway streetscape
 - Olson Memorial Highway streetscape

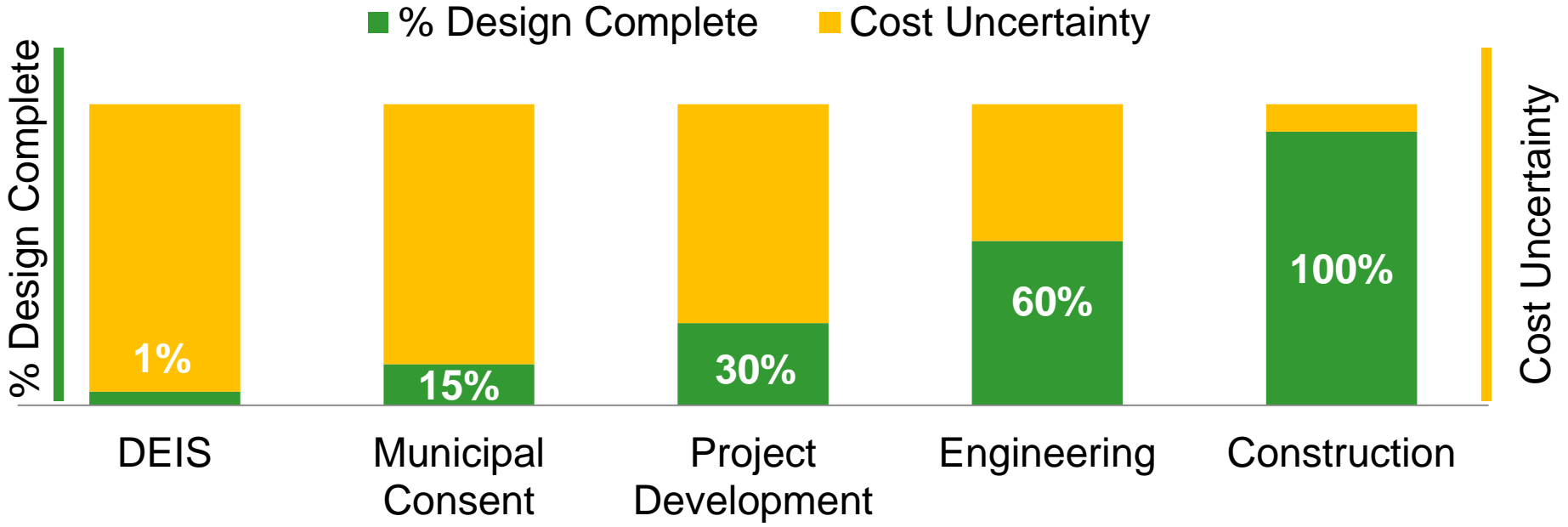


Project Budget: 60% Engineering

	30% Estimate	60% Estimate
Project Budget (Met Council Approved 9/28/2016)	\$1.536 B	\$1.536 B
Total Project Contingency	29%	25%
Escalation Factor	3%	3%
Base Year Estimate	2016	2017
Forecast Year	\$YOE (2018, 2019 and 2020)	\$YOE (2018, 2019 and 2020)



Cost Uncertainty By Project Phase



Advanced Construction: Bassett Creek Storm Sewer Relocation



Bassett Creek Culvert: Circa 1884



1884
JUN. 15

BASSETT'S CREEK CULVERT.

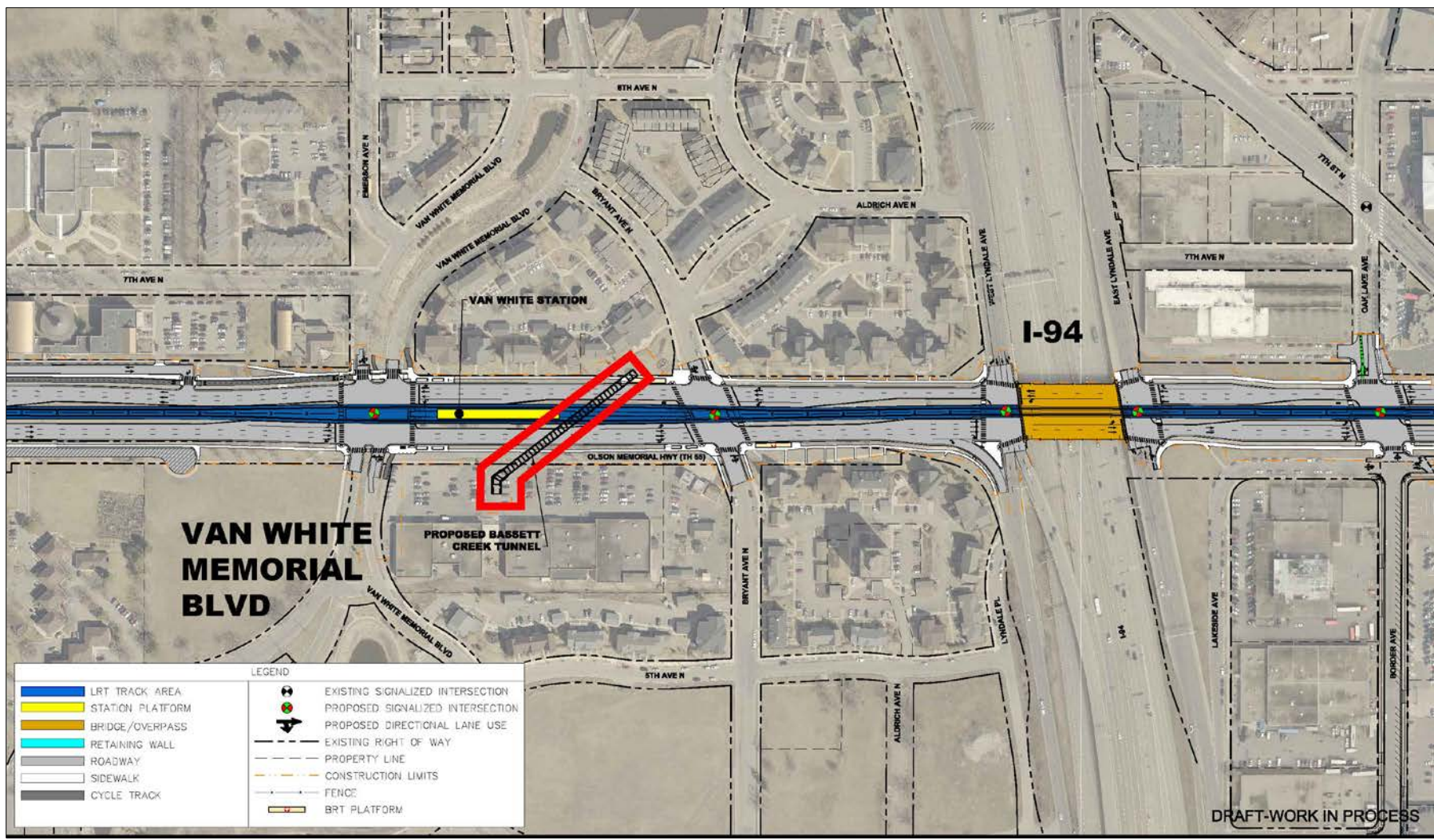


Bassett Creek Storm Sewer Relocation

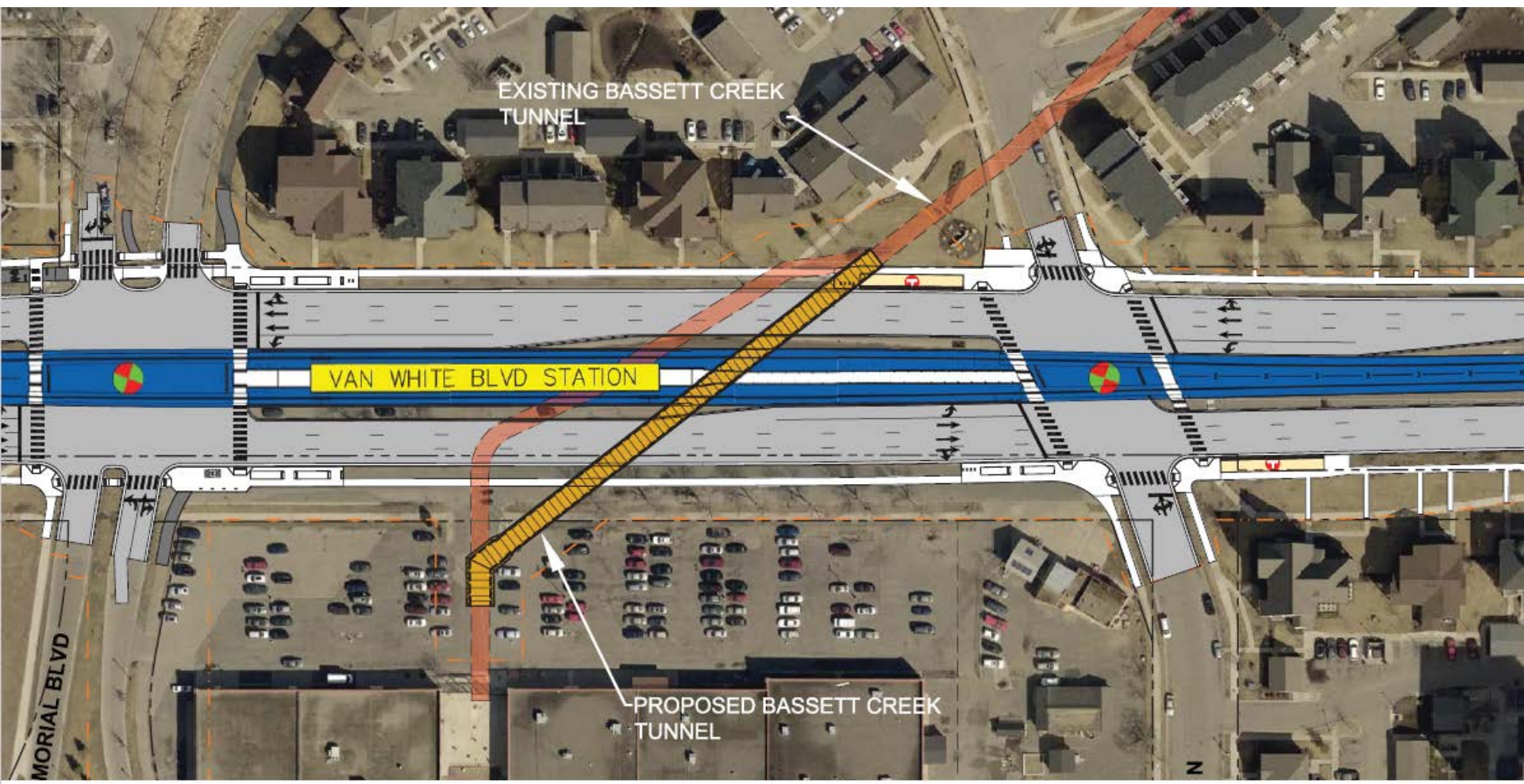
- Storm sewer conflicts with Van White Station and LRT guideway
- Critical path element: reduces construction staging and phasing of Olson Memorial Highway (OMH)
- Relocation needs to occur during storm water low flow time period: Fall/Winter
- Identified on MnDOT structurally deficient list



Bassett Creek Storm Water Overview



Bassett Creek Storm Water Overview



Bassett Creek Storm Sewer Utility Relocation

- June: Two bid packages released
 - Material procurement
 - Tunnel construction bid package
- July: Award material procurement contract
- September: Award construction package
- Fall 2017: Construction begins
 - Closure of OMH to start after Oct 27, 2017 allowing completion of I-94 work
 - Up to 12 day closure of OMH
- Estimated project cost: \$4.4M



Project Schedule Update



Major Project Milestones Achieved

- September 2016
 - Completed NEPA environmental process
 - Completed Project Development phase of the New Starts process
 - Set project scope and budget at \$1.536 B
- January 2017
 - FTA granted Entry into Engineering
- March 2017
 - Completed 60% Civil and OMF design
- May 2017
 - Completed 60% Systems design



Next Steps

- Complete 90% design
- Secure full local funding commitment
 - CTIB dissolution and increase in Hennepin County sales tax allows for Hennepin County to assume remaining local funding share
 - FTA completes Financial Capacity Assessment
- Negotiate freight rail agreements
 - Conclude negotiations with BNSF
- Secure Federal funding
 - Recognized as one of five projects in Engineering in the May 2017 Annual FTA report with Medium-High rating
 - Seek congressional appropriations in FY2018 budget
- Submit FFGA application in May 2018



Schedule Update

Milestone	Previous	Updated
Advanced Utility Work	October 2017	October 2017
90% Plans	August 2017	November 2017
100% Plans	December 2017	April 2018
Advanced Construction	October 2017	May 2018
Apply For FFGA	September 2017	May 2018
Receive FFGA	April 2018	October 2018
Heavy Construction	2018 - 2020	2019 - 2021
Operational Testing	Late 2020 - 2021	Mid 2021 - 2022
Revenue Service Date	Late 2021	Mid 2022



More Information

The screenshot shows the Metropolitan Council website with a navigation menu at the top including 'About Us', 'News & Events', 'Data & Maps', 'Publications', 'Doing Business', 'Council Meetings', 'Contact Us', and 'Employment'. Below the navigation is a secondary menu with categories: 'COMMUNITIES', 'PARKS', 'TRANSPORTATION', 'WASTEWATER & WATER', 'HOUSING', and 'PLANNING'. The 'TRANSPORTATION' category is highlighted. The main content area features a photograph of a blue and yellow METRO bus at a station with passengers. Below the photo is a sidebar with a 'METRO BLUE LINE EXTENSION' menu containing links for 'Route', 'Stations', 'Environmental', 'Timeline', and 'Project Partners'. The main text area is titled 'METRO BLUE LINE EXTENSION' and 'Bottineau Transitway – Minneapolis & Northwestern Communities'. It contains a paragraph describing the LRT route and a 'Latest News' section with the headline 'Feds: Met Council can begin designing METRO Blue Line Extension'. A 'Route' section includes the text 'Click on the map below for more information'.

Website: BlueLineExt.org

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Twitter: [@BlueLineExt](https://twitter.com/BlueLineExt)

