Downtown East / Vikings Stadium Transit Planning

Transportation Committee August 25, 2014



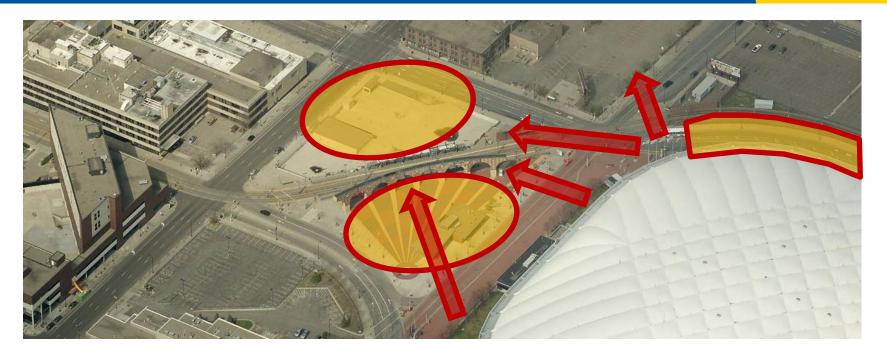
Jim Harwood, Principal Engineer

Engineering & Facilities



Key Transit Issues





- Capacity for queuing of customers
 - 40% transit mode split target
 - 26,000+ customers w/ Southwest & Bottineau LRT
- Pedestrian access especially at Chicago & 4th Street
- Permanent bus layover facility for regular service



Event Operations





Operations and Queuing

- Downtown East Ramp block required for queuing post event to accommodate projected ridership.
- Northwest corner of the block to be developed as open plaza for LRT operations and non event day functions.
- Southeast corner of block to undergo minimal renovations to improve LRT queuing operation and platform access.



Event Operations





LRT Operations

- Regular Revenue Service = 5 minute combined headways
 - A train will pass through the intersections of 4th and Chicago Avenue and 5th Street and Park Avenue every 2.5 minutes on average
- Game Day "special" trains
 - Increased frequency = train passing intersection every 2 minutes on average



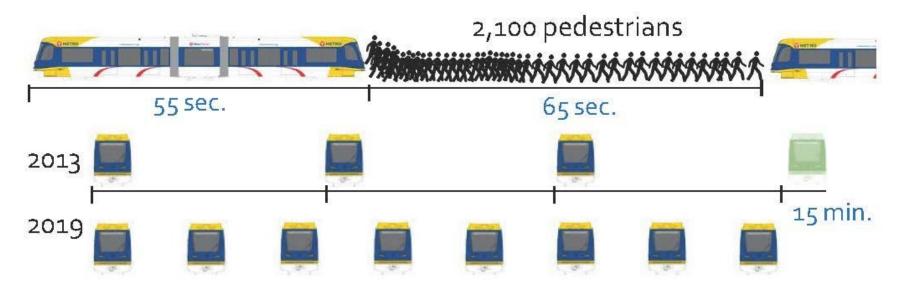
Pedestrian LRT Crossing



12 trains per hour per direction

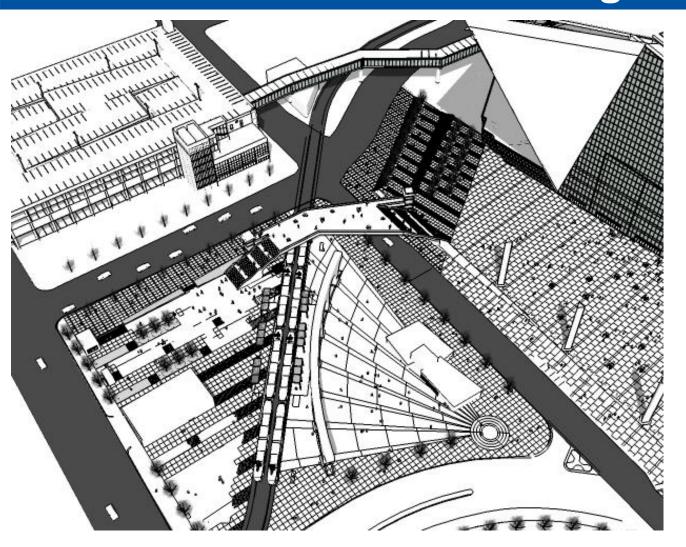
- + 5 special event trains
- = Average 120 seconds headway (two-way)







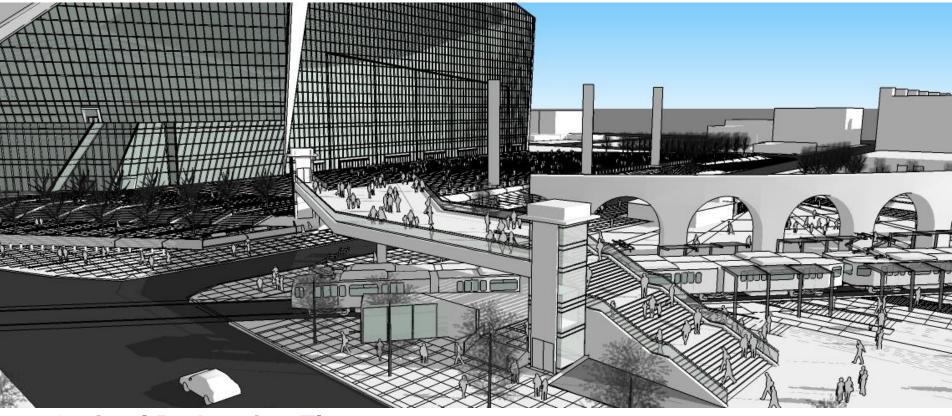




- Pedestrian bridge integrated with LRT queuing and operation
- Provide control of 4th St. at-grade crossing



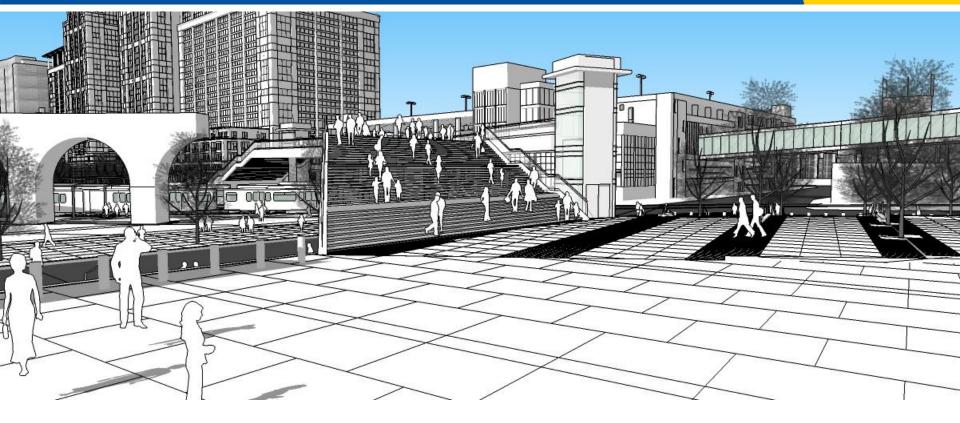




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- Clearly visible from stadium doors
- Safely conveys people across LRT tracks







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- Extends the plaza experience
- Clearly visible from stadium doors



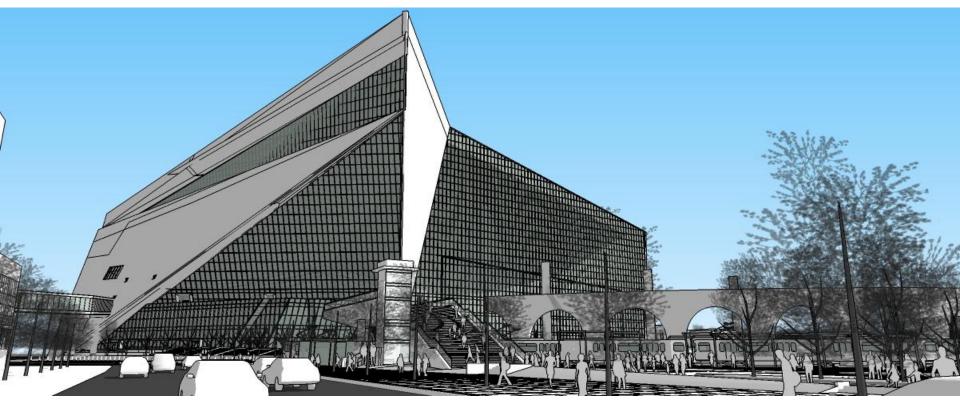




- Extends the plaza experience
- Maintains ample queuing space for LRT boarding





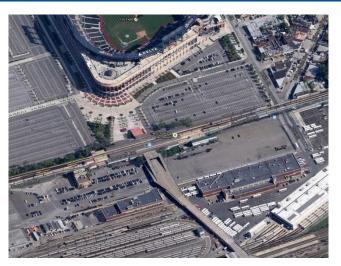


- Safely conveys people across LRT tracks
- Alignment with 4th Avenue clearly indicates travel pattern

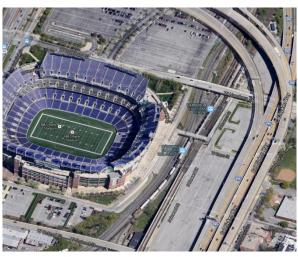


Examples of Pedestrian Bridges





Citi Field, New York, NY



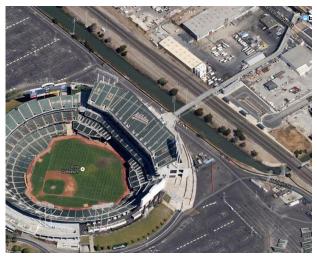
M&T Bank Stadium, Baltimore, MD



Caxton Roma, Brisbane, AU



Apogee Stadium, Denton, TX



County Coliseum, Oakland, CA

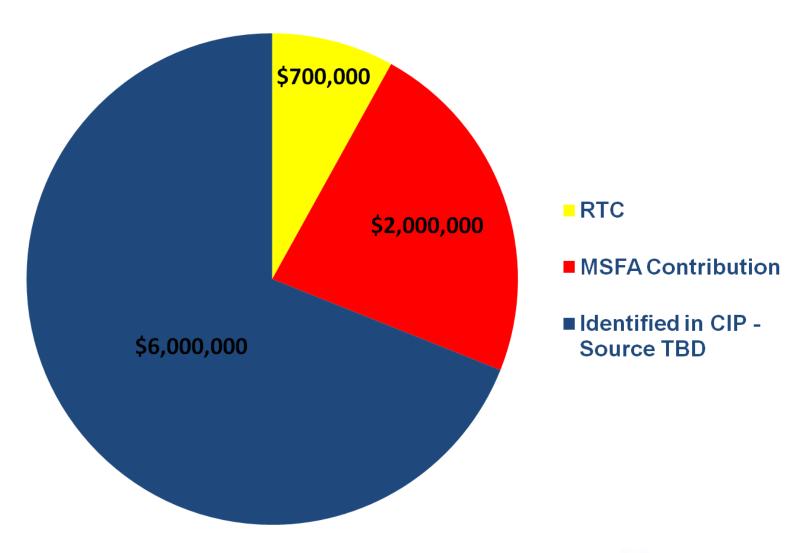


Giants Stadium, Rutherford, NJ



DTE Area Enhancement Funding







Summary and Next Steps





- Memo of Understanding with MSFA
- Issue Request for Proposals
- Execution and recording of agreements
 - Development Agreements
 - Easements
 - Operation and Maintenance Agreements
- Coordinate with project stakeholders to integrate LRT Station with area improvements & pedestrian crossings

Questions?

