East Rail Line Update
Stapleton Development Corp.
Jan. 22, 2015
Today’s Agenda

- Safety
- RTD FasTracks plan
- FasTracks status
- Eagle P3 Project
- Commuter rail vehicle
- East Rail Line
- Central Park Station
- Peoria Station
- Public Information efforts
- Economic impacts
- DBE/SBE/WIN status
- Progress Photos
- Questions

Overhead contact system (OCS) is complete near the Denver Airport Station, as well as the track work and most of the platform.
Stay Safe Around Trains

• East Rail Line will start a year-long testing program in late spring
• Pay attention to signs, gate arms and flashing lights before crossing any train track
• Never trespass on any train track – it is illegal and can result in serious injury or death
• Commuter rail vehicles and trains always have the right of way – drivers and pedestrians must pay attention to avoid collisions
  • Trains and commuter rail vehicles cannot swerve to avoid trespassers and although they can stop, it can take up to a mile to reach a full stop
Electrification – Commuter Rail

• Commuter rail vehicles are powered by overhead electrical lines
• The wires carry 25,000 volts of electricity and are deadly to anyone who gets too close to them
• Follow at-grade crossing safety signage and stay away from the power lines
• Do not touch, climb toward or come into any contact with the power lines

If the wires are up, they are LIVE!
Quiet Zones

• In a Quiet Zone corridor, commuter rail and freight trains will not blow their horns when approaching intersections except in an emergency
• The East Rail Line and Gold Line are planned to be full Quiet Zones
• All vehicle and pedestrian crossings have safety measures in place so you’ll know when a train is coming even if it doesn’t blow their horn
• Always pay attention to safety signage
• Cross the tracks only at designated crosswalks when it is safe to do so
RTD FasTracks Plan

- 122 miles of new light rail and commuter rail
- 18 miles of Bus Rapid Transit (BRT) service
- 31 new Park-n-Rides; more than 21,000 new parking spaces
- Enhanced Bus Network & Transit Hubs (FastConnects)
- Redevelopment of Denver Union Station
- 57 new rail and/or BRT stations
- Opportunities for Transit Oriented Communities
FasTracks Status

- **West Rail Line (W Line)**—First FasTracks line to open—April 2013
- **Denver Union Station**—Bus Concourse opened May 9, service began May 11
- **East/Gold/Northwest Rail Lines (EAGLE)**—63% complete
- **I-225 Line**—31% in construction progress; 93% in design progress
- **U.S. 36 BRT**—Phase 1 of managed lanes 74% complete, Phase 2—34.5%
- **North Metro Line**—Design underway, early work to begin in fall
- **Southeast Rail Extension**—Advanced basic engineering complete
Eagle P3 Project

- East Rail Line offers 35-minute travel time to DIA
- Gold Line offers 25-minute travel time to Ward Road
- Northwest Rail Westminster Segment offers 11-minute travel time to Westminster
Eagle P3 Project Status

Design & Construction

- Civil design work almost 100 percent complete
- Safety certification of the designs progressing well
- Construction 71 percent complete and on schedule for revenue service in 2016

Systems

- Energizing testing from the Xcel grid complete at Argo and Sandown substations
- Wherever you see wires up on the poles, assume power is live and STAY CLEAR!
Commuter Rail Vehicle

- 201 passenger capacity per car (91 seated, 110 standing)
- 79 mph maximum operating speed
- 85 feet long, 10 feet wide, 15 feet tall
- Stainless steel exterior
- Two doors on each side of car
- Clear passage on each door is 50” in width
- ADA-compliant level boarding (no steps, roll-on/roll-off)
- Increased safety features
  - Positive train control
  - Vehicle monitoring systems
- Improved security with video surveillance
Commuter Rail Vehicle

- 50 car bodies from base order and 6 option cars for North Metro delivered from Hyundai Rotem in South Korea to Philadelphia assembly plant
- Eight completed cars in Denver
- Eight more cars ready to be shipped from Philadelphia
- 10 additional car body shells now under fabrication; six for North Metro, four for Eagle
- Public unveiling and open house drew 6,500 people to Union Station in December
Commuter Rail Vehicle

Commuter rail vehicles at Union Station, December 2014
Commuter Rail Vehicle

Commuter rail maintenance facility, December 2014
East Rail Line

38th/Blake Station platform looking toward downtown
East Rail Line

- Connects downtown Denver to DIA via Aurora
- Complete in 2016

- 22.8 miles commuter rail
- Electric Rail Cars
East Rail Line

- Station canopies complete at Peoria, under way at 38th/Blake and Central Park
- Roadway reconstruction under way on Moline & 33rd, Albion & 40th
- Smith Road reopened to two-way traffic east of Dahlia
- Installation of glass on 38th/Blake pedestrian bridge starting soon
- Overhead wire installation moving toward Union Station platform
Central Park Station
Central Park Station
Central Park Station

- 1,500 parking spaces on opening day
- 14 minutes to and from Union Station; 21 minutes to and from DIA
Peoria Station
Public Information/Previous Quarter

- Project tours: 23 tours totaling 385 attendees
- Website page views: 79,801
- Stakeholder contacts: 568 personal touches via phone, email or in-person
- Printed newsletter distribution: 2,000 English, 500 Spanish
- Email newsletter distribution: 21,021
- Individual notifications by door hanger, flyer or email: 49,736
- Business impact mitigation, digital detour mapping to locate businesses

PI team member Christina Zazueta conducts public construction tour of the Gold Line
Economic Impacts

Through December 2014, the project has added $1.13 billion to the local economy:

- DTP Wages Paid               $171 million
- Equipment, services and supplies $390 million
- Subcontractors               $569 million

- DTP currently has more than 1,600 employees, with a total of 5,857 employees working on the project to date
- DTP has subcontracted to more than 625 firms that employ crews and purchase supplies from local distributors
- DTP directly contracts with local certified Disadvantaged Business Enterprises (DBEs)/Small Business Enterprises (SBEs)
DBE/SBE/WIN

- DTP has hired a total of 48 project employees through the RTD Workforce Initiative Now (WIN) program
- DBE/SBE commitments have exceeded goals (see chart)
- DTP has paid out $239.4 million to disadvantaged and small design and construction firms and has contracts for remaining work that will push construction payouts over the project goals

### Disadvantaged and Small Business Enterprises

Through December

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<th>Construction DBE</th>
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Disadvantaged and Small Business Enterprises Through December
Construction Progress

View inside Westin Hotel structure at Denver Airport, above train station
Construction Progress

Looking north toward airport station and hotel from within “X Box” commuter rail underpass
Construction Progress

Looking south from exit of underpass toward Third Creek and Peña-New Castle bridges
Construction Progress

View north from Peña Boulevard outbound drive, above “X Box”
Construction Progress

Systems crew conducting inspection of overhead catenary system installation
Construction Progress

56th Avenue commuter rail bridge, with OCS installation under way
Construction Progress

40th Avenue/Airport Blvd • Gateway Park Station in Aurora
Construction Progress

A track tamper at work along Smith Road, lifts the rails and settles the ballast around the concrete ties.
Construction Progress

Looking at track installation facing east, under new Peoria Street bridge in Aurora.
Construction Progress

Aerial view of new Peoria grade separation over Union Pacific and RTD East Rail Line alignments; Peoria station platform at left along tracks.
Construction Progress

Installation of canopies at the Central Park Station in the Stapleton neighborhood.
Construction Progress

Gantry flanks the tracks at Sandown Substation along the tracks east of Quebec Street, where the 25kV AC power feed will enter the catenary system.
Construction Progress

Track worker uses a device that lifts the rails straddling the ties and places them within the e-clips; this was taken between York and Steele streets.
Construction Progress

38th/Blake Station pedestrian bridge is hauled into place to be picked up by two cranes
Construction Progress

38th/Blake Station pedestrian bridge in place on piers, will allow safe passage over Union Pacific yard and East Rail Line tracks from Park-n-Ride to station platform.
Questions?

For more information on RTD’s Eagle P3 Project:

www.rtd-fastracks.com/ep3_2