Dallas Area Rapid Transit (DART) Silver Line Project

Quarterly Community Meeting – City of Richardson
Monday, November 16, 2020
Welcome!
We Will Begin Momentarily

Please submit all questions and comments via the chat room.

If you have called into this meeting and wish to submit questions or comments please email CottonBelt@DART.org.

If we do not respond to your question/comments tonight, it will be responded to within 30 days of receipt. Your question and answer will then be posted on www.DART.org/SilverLine

Thank You
Notice

Audio and Video Recording in Progress
DART Community Engagement Representative

Chris Walters

CottonBelt@DART.org

214-749-3280
COVID-19 Update

Due to the current pandemic, all public involvement sessions will take place via video conference.

DART urges you to follow the guidelines from the Centers for Disease Control and Prevention (CDC) to keep your family healthy and safe.

Stay up to date by attending public involvement sessions online, signing up for construction alerts, visiting DART.org/SilverLine or calling 214-749-2543.
How To Stay Informed

- Visit www.DART.org/SilverLine
- Email CottonBelt@DART.org
- Attend meetings virtually
- Sign up for project alerts at www.DART.org/SilverLine
- DART HOTLINE 972-833-2856
- Mail your Community Engagement Representative
Questions and Answers

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Thank You
DART Silver Line Project Facts

- $1.266 Billion Design-Build Project
- 26 Mile alignment servicing the following cities/towns:
  - Addison
  - Carrollton
  - Coppell
  - Dallas
  - Grapevine
  - Plano
  - Richardson
- 10 Rail stations
- 4 Rail connections (Green, Orange, Red Light Rail, TEXRail)
- March 2023 Revenue Service
- The design-build status for Silver Line is 70% complete as of October 22, 2020
- The Silver Line vehicle design is 100% complete as of October 22, 2020
DART Silver Line Segment Map

Silver Line Regional Rail Project
Design-Build Update
Design–build alternative project delivery method is used in the construction industry. Design-build is a method of project delivery in which an entity (Archer Western Herzog, AWH), works under a single contract with the project owner (Dallas Area Rapid Transit, DART) to provide design and construction services.

- Design Builder – Archer Western Herzog (AWH)
- Owner – Dallas Area Rapid Transit (DART)
Design-Build Schedule

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
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<td>Design/Build: 30%</td>
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<td>Design/Build: 60%</td>
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<td>Design/Build: Final Design</td>
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<td>Design/Build: Construction</td>
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<tr>
<td>Testing</td>
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<td>Revenue Service</td>
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</tbody>
</table>

November 2020
Design-Build Update
US75 Bridge Design – Trapezoidal Arch / White Paint
Design-Build Update
US75 Bridge Design – Trapezoidal Arch / White Paint
Design-Build Update
US75 Bridge Design
Design-Build Update
Waterview Pkwy. Intersection
Design-Build Update
Rutford Ave. Intersection
Design-Build Update
Synergy Park Blvd. Intersection

No road construction at Synergy Blvd, bridge will go over the at-grade street.

Metal Basem Guard Fence to be added under bridge.
Design-Build Update
Renner Rd. Intersection

No road construction at W Renner Rd., bridge will go over the at-grade street.
Design-Build Update
Custer Pkwy. Intersection

Road modifications, bridge will go over Custer Pkwy.
Design-Build Update
Alma Rd. Intersection
Design-Build Update
CityLine Dr. Intersection
Design-Build Update
President George Bush Intersection
City-Led Betterments
Program Update
The City of Richardson is a city-led Betterments Program. Both the neighborhood and trackside walls located in Richardson will be the following color and finish:

- **Bush Hammer**
- **1082D Tan**
City-Led Betterments Program Update

Neighborhood Wall Finish and Color
City-Led Betterments Program Update
Alignment Map
City-Led Betterments Program Update
Alignment Map
City-Led Betterments Program Update
Alignment Map, Walls and Landscape

- Enhanced Pavers at Trail Crossing
- Extend Tall Wall 200' East (15' Betterment Wall)
- Add Trail Connection
- Add Missing Sidewalks @ Renner (1100 LF)
City-Led Betterments Program Update
Renner Rd. Intersection
City-Led Betterments Program Update
Renner Rd. Intersection
City-Led Betterments Program Update
Alignment Map, Walls and Landscape

- Enhanced Pavers at Trail Crossing
- Betterment Wall Included
- Enhanced Custer Road Bridge
City-Led Betterments Program Update
Custer Pkwy. Intersection (Standard Rail)
City-Led Betterments Program Update
Custer Pkwy. Intersection (Enhanced Rail)
City-Led Betterments Program Update
Custer Pkwy. Intersection (Standard Rail)
City-Led Betterments Program Update
Custer Pkwy. Intersection (Enhanced Rail)
City-Led Betterments Program Update
Custer Pkwy. Intersection (Standard Rail)
City-Led Betterments Program Update
Custer Pkwy. Intersection (Enhanced Rail)
City-Led Betterments Program Update
Alignment Map

Add Missing Sidewalk
City-Led Betterments Program Update
Alignment Map

- Enhanced Pavers at Trail Crossing
- Add Missing Sidewalk
City-Led Betterments Program Update

Alignment Map

Enhanced Pavers for Street Crossing and Additional Landscape

Enhanced Pavers for Street Crossing and Additional Landscape
City-Led Betterments Program Update
Alignment Map

Enhanced Pavers for Street Crossing and Additional Landscape

Aura One90 Plano
Betterments Program Update

Sound Wall Mock-up Viewing Schedule

You are invited to participate in the DART Silver Line Betterments Sound Wall Mock-up Viewing in your city to see in person what the wall color and finish will look like in your neighborhood. The viewing will be available from Friday, November 20, 2020 – Friday, January 28, 2021.

The betterments sound wall color and finish for each neighborhood were voted on by residents and stakeholders through a robust and inclusive community engagement process. All Betterments Sound Wall Mock-up Viewing locations will provide the community an up-close look at the various wall color and finish options. Attendees will see the Daniel Acoustic Wall System that will be used on the rail-side of the alignment and the Precast Concrete Reflective Wall to be used on the neighborhood-side of the alignment.

To confirm wall color and finish for your neighborhood, please visit DART.org/SilverLine.

Viewing Location

[cities listed with addresses]

For additional information, please visit DART.org/SilverLine or contact DART Community Engagement at 214-749-2543.
DART Station
Art & Design Program
Richardson Art & Design Program
UT Dallas Station

Station Facts
Platform Type: Center
Parking Spaces: 248
Bus Bays: 5
Bus Routes: 3
Projected Daily Ridership:
Opening Day: 700
2040: 850
Mode of Access:
Bus Transfer: 63%
Drive: 5%
Walk: 32%

Station Benefits
• Access to UT Dallas campus
• Near-term shared use parking with UTD opportunity for shared structure parking long-term
• Transit-oriented development adjacent to platform
• Adjacent to two large employers

Key Community Comments
• Supported by City of Richardson
• Supported by UT Dallas
• Seen as a compliment to planned development
• Serves future students but not current students
Richardson Art & Design Program
UT Dallas Station
Richardson Art & Design Program
UT Dallas Station
Richardson Art & Design Program
UT Dallas Station
Richardson Art & Design Program

UT Dallas Station
Richardson Art & Design Program

UT Dallas Station
Richardson Art & Design Program
UT Dallas Station
Richardson Art & Design Program
UT Dallas Station
Station Facts
Platform Type: Side
Parking Spaces: Existing
Bus Bays: Existing
Bus Routes: 4
Projected Daily Ridership:
Opening Day: 1,000
2040: 1,380
Mode of Access:
Rail Transfer: 70%
Bus Transfer: 8%
Drive: 11%
Walk: 11%
Station Benefits
- Transit-oriented development
- Serves CityLine
- Large employment centers
- DART Red Line connection

Key Community Comments
- Supported by the City of Richardson
- Supported by CityLine developers and businesses
- Seen as compliment to existing and planned development
- Seen as a multimodal transit hub
Richardson Art & Design Program
CityLine/Bush Station
Richardson Art & Design Program
CityLine/Bush Station
Richardson Art & Design Program
CityLine/Bush Station
Richardson Art & Design Program
CityLine/Bush Station
Richardson Art & Design Program
CityLine/Bush Station
Richardson Art & Design Program
CityLine/Bush Station
Questions and Answers

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Thank You
Hike & Bike Trail
Hike & Bike Trail

• The Hike & Bike Trail is being funded through an Interlocal Agreement with the North Central Texas Council of Governments (NCTCOG)

• NCTCOG is working with participating cities to develop the project

• DART will complete final design of the Cotton Belt/Silver Line Corridor Hike and Bike Trail
Hike & Bike Trail

Typical Cross Section Hike and Bike Trail on One Side
Hike & Bike Trail Map

North Central Texas Council of Governments

DART let's go.
Questions About Hike and Bike Trail

North Central Texas Council of Governments  
Kevin Kokes  
KKokes@nctcog.org  
817-695-9275

City of Richardson  
Jessica Shutt  
Jessica.Shutt@cor.gov  
972-744-4320
Silver Line Vehicle Information
Silver Line Vehicle Information

- Automatic Passenger Counters (APC)
- Vehicle Business System (VBS)
- Closed Circuit Television System (CCTV)
- Number of seats per vehicle: 230
Silver Line Vehicle Information

Overview

*Single Vehicle
Silver Line Vehicle Information
Overview - Exterior

HVAC Enclosure
Wheel Skirts

WHEEL SKIRT EXAMPLE
(STILL UNDER DESIGN)
Silver Line Vehicle Information
Overview - Interior

INTERIOR SEATING

ENTRANCE AREA
Silver Line Vehicle Information
Overview - Interior

INTERIOR LIGHTING
OVERHEAD LUGGAGE CARRIERS
Silver Line Vehicle Information

Overview - Interior

WHEELCHAIR ACCOMMODATION

BICYCLE RACKS

*Vehicles are level boarding to accommodate easy access of wheelchairs, bicycles, luggage and etc.
Silver Line Vehicle Information

Vehicle Frequency

- Weekday service is currently scheduled to be from 6:00 a.m. to 9:00 p.m.
- Service hours could be as early as 5:00 a.m. or as late as 11:00 p.m.
- 30-minute peak and 60-minute non-peak
Silver Line Vehicle Information

Carbody Assembly

Vehicle roof and underframe

Vehicle passenger car
Quiet Zones
Sound Mitigation
**Quiet Zones**

- DART Silver Line crossings in residential areas are proposed to be quiet zones.
- Quiet zone mitigations are independent of the sound wall mitigations.
- Establishing quiet zones will require cooperative action among the municipalities along the Silver Line, the Federal Railroad Administration (FRA), the freight railroads and DART.
- The type of protection will be determined during design of the intersection.
## Quiet Zones
### Quiet Zone Crossings - Richardson

<table>
<thead>
<tr>
<th>STREET</th>
<th>CITY</th>
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</thead>
<tbody>
<tr>
<td>Waterview Parkway (Existing)</td>
<td>Richardson</td>
</tr>
<tr>
<td>Rutford Drive</td>
<td>Richardson</td>
</tr>
<tr>
<td>Custer Parkway (Existing)</td>
<td>Richardson</td>
</tr>
<tr>
<td>Alma Road (Existing)</td>
<td>Richardson</td>
</tr>
<tr>
<td>West CityLine Drive</td>
<td>Richardson</td>
</tr>
<tr>
<td>President George Bush Turnpike (EB)</td>
<td>Richardson</td>
</tr>
</tbody>
</table>
## Sound Mitigation
### Vehicle Noise Control / Infrastructure and Operational Noise Control Measures

<table>
<thead>
<tr>
<th>FEIS Mitigation Measures:</th>
<th>Additional Noise Reduction Measures:</th>
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<tbody>
<tr>
<td>Precast Concrete Reflective Sound Wall – Track and Neighborhood Side</td>
<td>Durisol Absorptive Sound Wall Enhancement – Track Side Only</td>
</tr>
<tr>
<td>12' Sound Wall</td>
<td>15' Sound Wall / Betterment Wall – 3’ foot increase</td>
</tr>
<tr>
<td>Quiet Zones at Rail Crossings in Residential Areas</td>
<td>Vehicle wheel skirts, HVAC enclosure (Baffler) and variable speed cooling fans</td>
</tr>
<tr>
<td>Directional Electronic Crossing Warning Bells will be at 7 locations (5 in Dallas)</td>
<td>Vehicle is quieter than initially assumed in the noise analysis</td>
</tr>
<tr>
<td></td>
<td>Maximum speed of 45-mile per hour in North Dallas</td>
</tr>
<tr>
<td></td>
<td>Directional Electronic Crossing Warning Bells will be used at all at-grade crossings</td>
</tr>
<tr>
<td></td>
<td>Betterment walls added in locations that do not meet the warrants for noise mitigation</td>
</tr>
</tbody>
</table>
Construction Update
Construction Update

- Dry utility relocation
- Design survey and surface utility investigation
- Freight rail removal
- Silver Line rail delivery and off loading
- Grubbing and clearing
- Schedule and notification:
  - Lane restrictions
  - Closures
  - Detours

Removal of rail spikes
Construction Update

Boring testing along Belt Line Road
Construction Update

Backfilling new pipe installation
Construction Update

Excavating for a bore pit
Construction Update

Future infrastructure excavating new trench for Sprint fiber
Construction Update

Future infrastructure setting bore tracks
Construction Update

Bobcat installing pipe in open trench

Oct 22, 2020
Upcoming Construction Activity

Construction Equipment

- Front-end Loader
- Trackhoe Excavator
- Bobcat
- Motor Grader
- Track Loader
- Backhoe
- Crane

*NOT AN ALL-INCLUSIVE LIST*
Upcoming Construction Activity

Public Access

• Maintain business access
• Maintain home and community access
• Maintain access for emergency vehicles
• Maintain pedestrian access
Upcoming Construction Activity

Maintenance of Traffic

- Schedules and notification deadlines
- Lane restrictions
- Closures
- Detours
Construction Notifications

- Construction Activity Notifications (Doorhangers, Emails, Social Media, etc.)
- DART and Archer Western Herzog Project Websites
- DART Silver Line Project Newsletters
- DART Silver Line Project At-A-Glance Fact Sheets
- Quarterly Design and Construction Community Meetings
- Stakeholder Meetings with Businesses and Residents
- Project Hotline: 972-833-2856
Construction Notifications

- DART Silver Line Fact Sheets
  - DFW International Airport / City of Grapevine
  - City of Dallas / Coppell
  - City of Carrollton
  - Town of Addison
  - City of Richardson
  - City of Plano
Construction Safety

10 Construction Safety Tips
With construction about to begin on the Silver Line Project along the historic Cotton Belt Regional Rail Corridor, DART reminds everyone that construction areas can be very dangerous. Play it safe by following these 10 tips:

1. **STOP, LOOK AND LISTEN**
   Phones, video games and other electronic devices can be distracting.

2. **REMOVE EARBUD OR TURN VOLUME DOWN**
   Headphones can keep you from hearing approaching bulldozers, dump trucks and other construction vehicles.

3. **AVOID DANGERS**
   Do not walk, ride, run, hang out or play in construction zones or work areas, as heavy machinery and debris pose dangers.

4. **OBEY SIGNALS**
   Always obey all traffic signs and signals; never assume you have the right-of-way - and look both ways before crossing.

5. **USE CROSSWALKS**
   Use sidewalks and cross only at designated crosswalks, as construction vehicles make sudden stops and wide turns.

6. **SEE AND BE SEEN**
   Make eye contact with construction vehicles before crossing.

7. **WATCH OUT**
   Observe all construction signs and warnings.

8. **KEEP AWAY**
   Keep away from construction fencing and traffic cones - they’re there to protect you.

9. **BE ON THE LOOKOUT**
   Watch out for falling objects, moving vehicles and other hazards.

10. **START TALKING**
    Safety begins with you. Talk to your family.
Construction School Safety

School Districts
- Richardson ISD
  - All schools
# Construction 90-Day Schedule

<table>
<thead>
<tr>
<th>CITY OF RICHARDSON</th>
<th>NOVEMBER 2020</th>
<th>DECEMBER 2020</th>
<th>JANUARY 2021</th>
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<tr>
<td>No Activity</td>
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School Outreach Update
School Outreach Update – Richardson ISD

- Communicate construction updates and safety information directly with Richardson ISD staff.
- Work with Richardson ISD, and City of Richardson staff to help manage safe traffic flow along rail crossings, especially for pickup and drop-off schedules for students and parents where relevant.
- Participate in school and community events with Richardson ISD to promote transit safety and awareness campaigns.
- Provide transit education material, resources, and programs to students, parents, and staff at Richardson ISD through online curriculums, virtual presentations, and virtual tours of the DART System.
School Outreach Update – Richardson ISD

- Offer interactive and virtual Career Day Programs to Richardson ISD students and teachers, focusing on Science, Tech, and Math (STEM) careers, educational background, and skills required for a career in public transportation.

- Work to ensure each school building has pertinent DART/AWH contact information.

- Establish proactive and conducive relationships with area school administrators to enhance communication flow.
How To Stay Informed
How To Stay Informed

- Visit www.DART.org/SilverLine
- Email CottonBelt@DART.org
- Attend meetings virtually

- Sign up for project alerts at www.DART.org/SilverLine
- DART HOTLINE
  972-833-2856
- Mail your Community Engagement Representative
DART Community Engagement Representative

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214-749-3280
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Thank You For Joining Us!
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This Meeting Has Concluded