



# Briefing on the Silver Line Regional Rail Project

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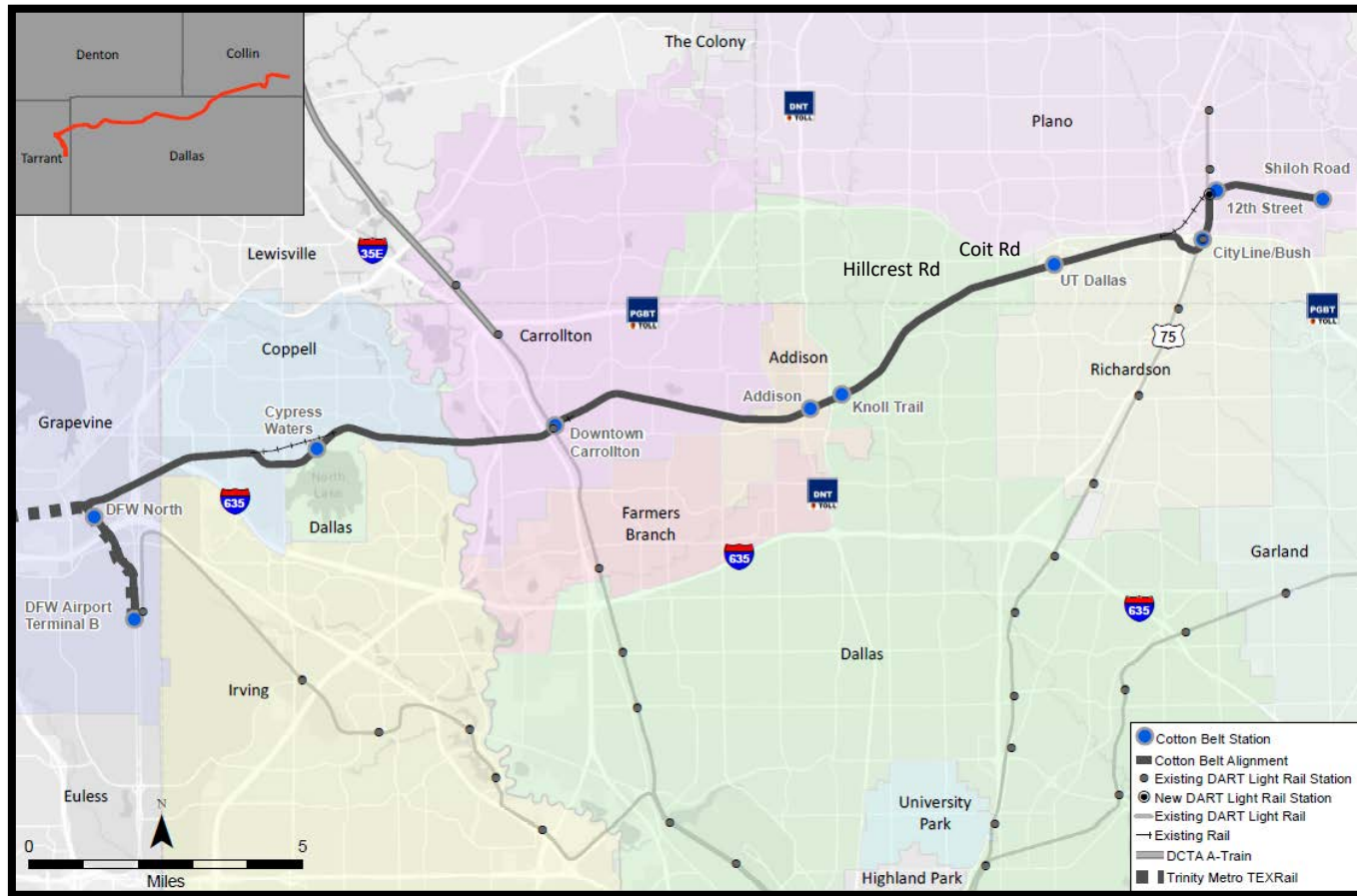
January 21, 2020

City of Dallas  
Transportation & Infrastructure Committee Meeting

Gary C. Thomas  
President/Executive Director



# DART Cotton Belt “Silver Line” Map



# DART Silver Line Project Facts

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- \$1.246 Billion Project
- 26 Mile alignment serving the 7 cities of:
  - Grapevine
  - Coppell
  - Carrollton
  - Addison
  - Dallas
  - Richardson
  - Plano
- 10 Rail stations
- 4 Rail connections (Orange, Green, Red LRT and TEXRail)
- 11,200 Weekly riders by 2040
- 210,000 jobs with ½ mile of alignment
- 2022 Fare Revenue Service

# What is Design-Build?

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**Design-build** is an alternative project delivery method used in the construction industry. **Design-build** is a method of project delivery in which one 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

Streamlining project delivery through a single contract between the owner and the design-build team transforms the relationship between designers and builders into an alliance that fosters collaboration, teamwork, innovation and creative problem solving

# Construction Activity 1<sup>st</sup> Quarter 2020

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The following work is scheduled to begin the first quarter of 2020:

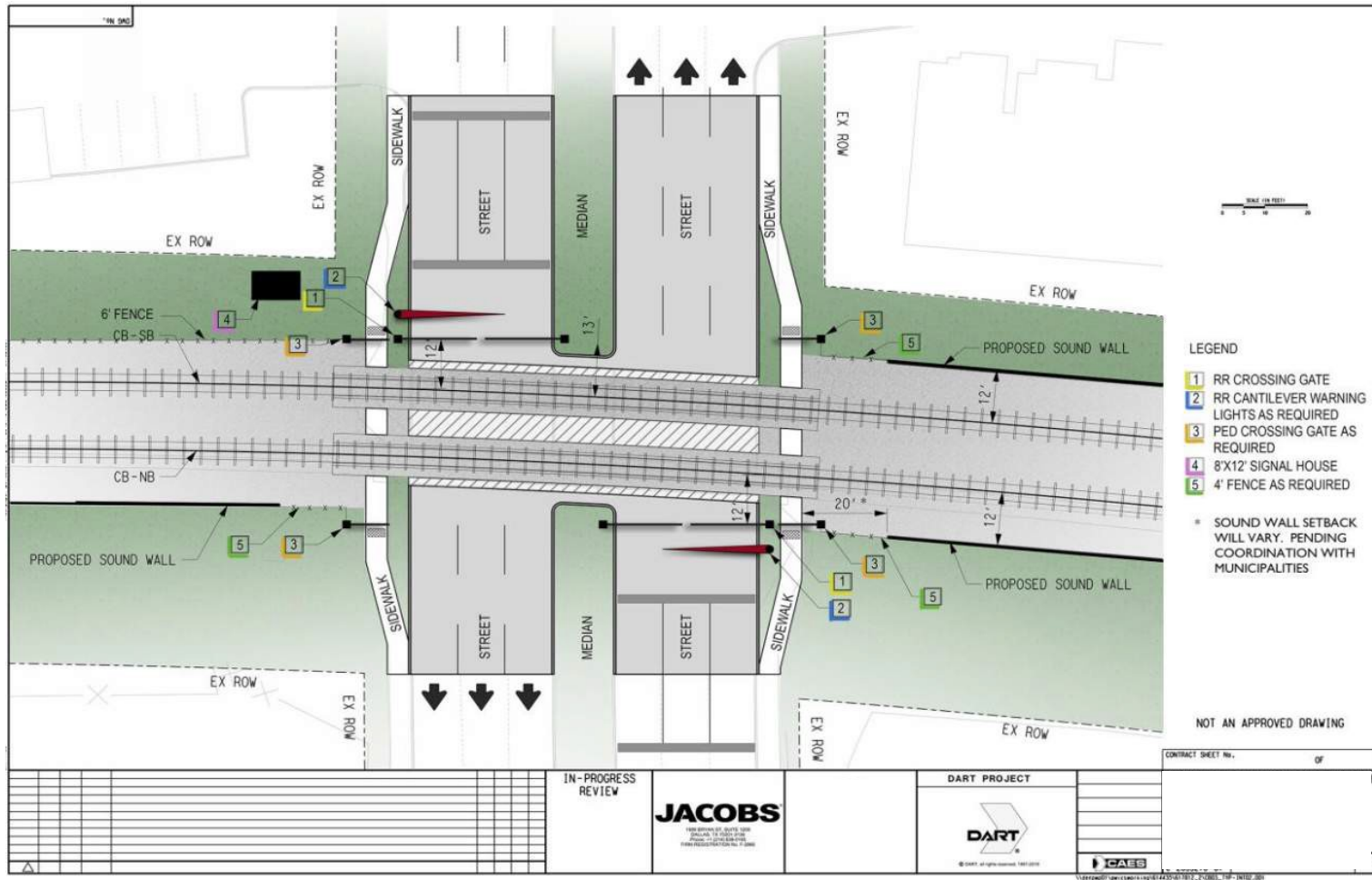
- Wet & Dry Utility Relocation
- Excavation/Embankment
- Retaining Walls
- Bridge Structures

# Quiet Zones

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- All DART Silver Line crossings 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 Project, FRA, the freight railroads and DART

# At-Grade Crossing – Typical



# Hillcrest Road 10% Design / 30% Design

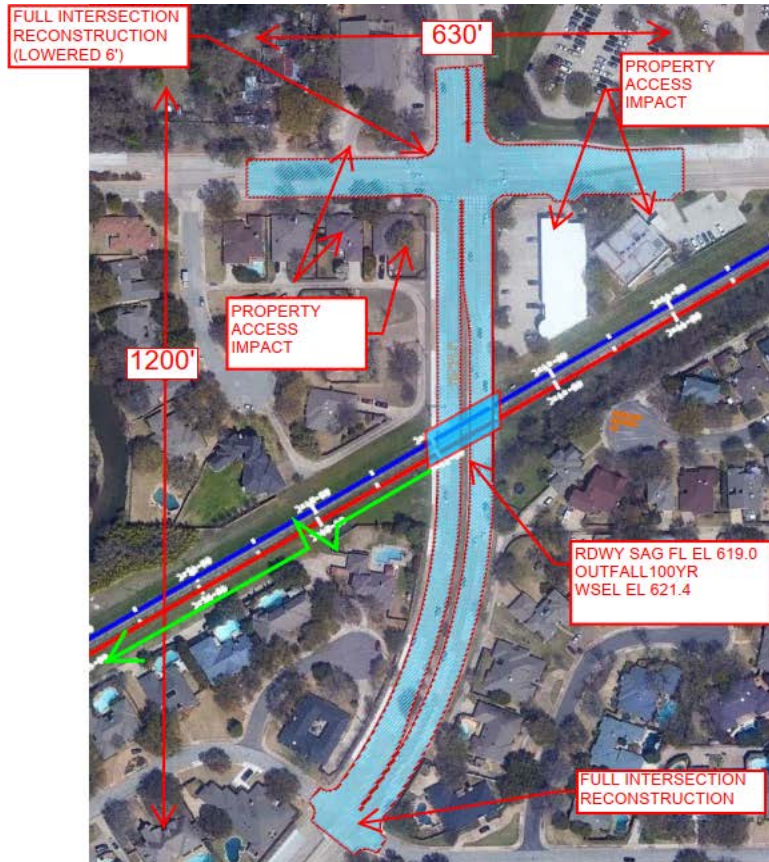
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- The 10% Design focused on trying to maintain rail as close to current elevation as possible
- This approach results in the lowering of Hillcrest Road that extends into McCallum Blvd. and Wester Way
- The 10% Design identified the driveway and access impacts with mitigation focused on working with the City and affected properties during the final design phase to relocate, modify or otherwise mitigate these changes to access
- The 30% Design mitigates driveway access impacts



# Hillcrest Road 10% Design / 30% Design

HILLCREST ROAD 10% DESIGN



HILLCREST ROAD 30% DESIGN



# Hillcrest Road – Existing Condition (Aerial View Looking Northwest)





# Hillcrest Road – Existing Condition (Aerial View Looking Northwest)



## Hillcrest Road – Existing Condition (Street View Looking West)

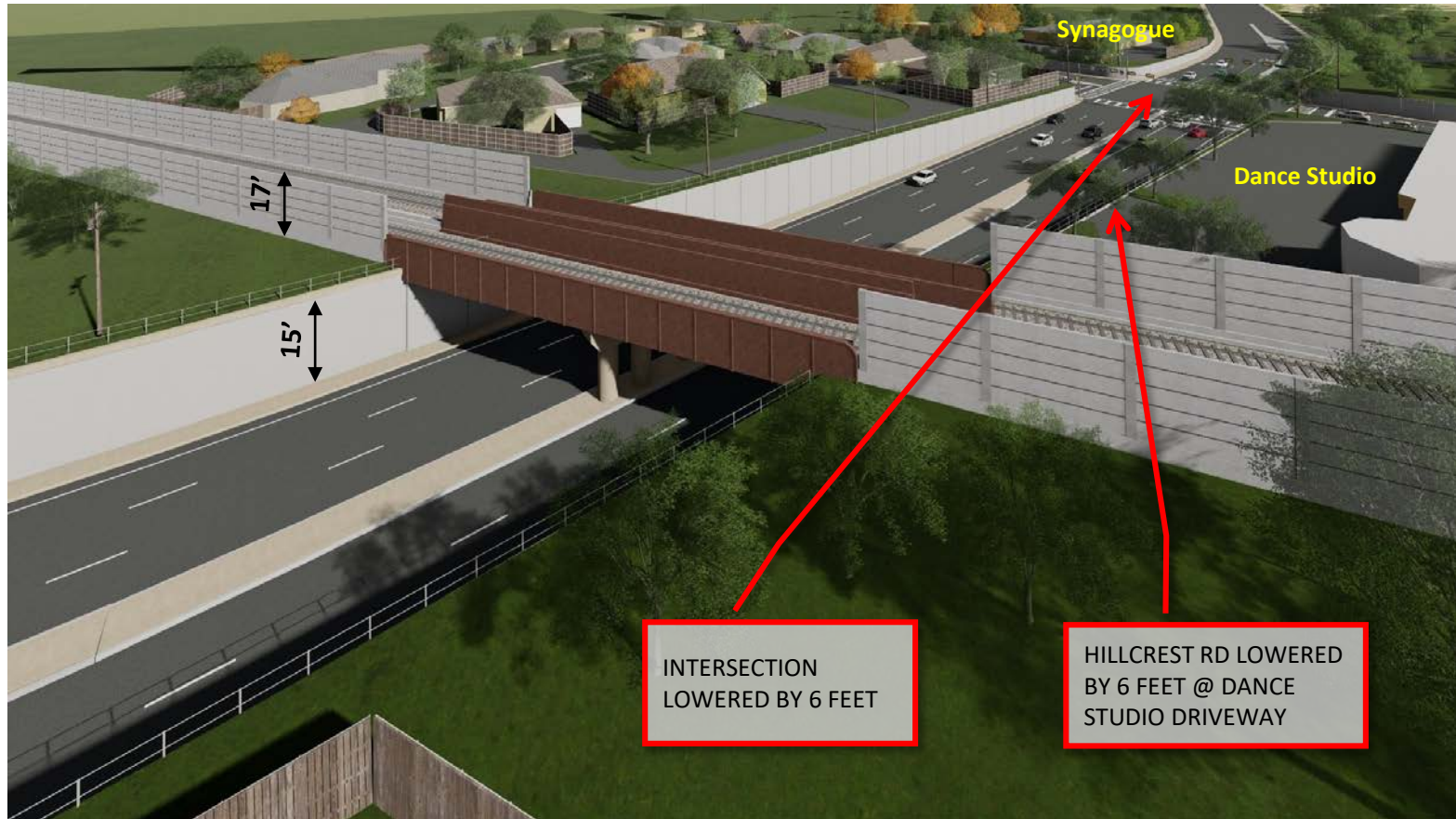




# Hillcrest Road - Existing Condition (Street View Looking East)

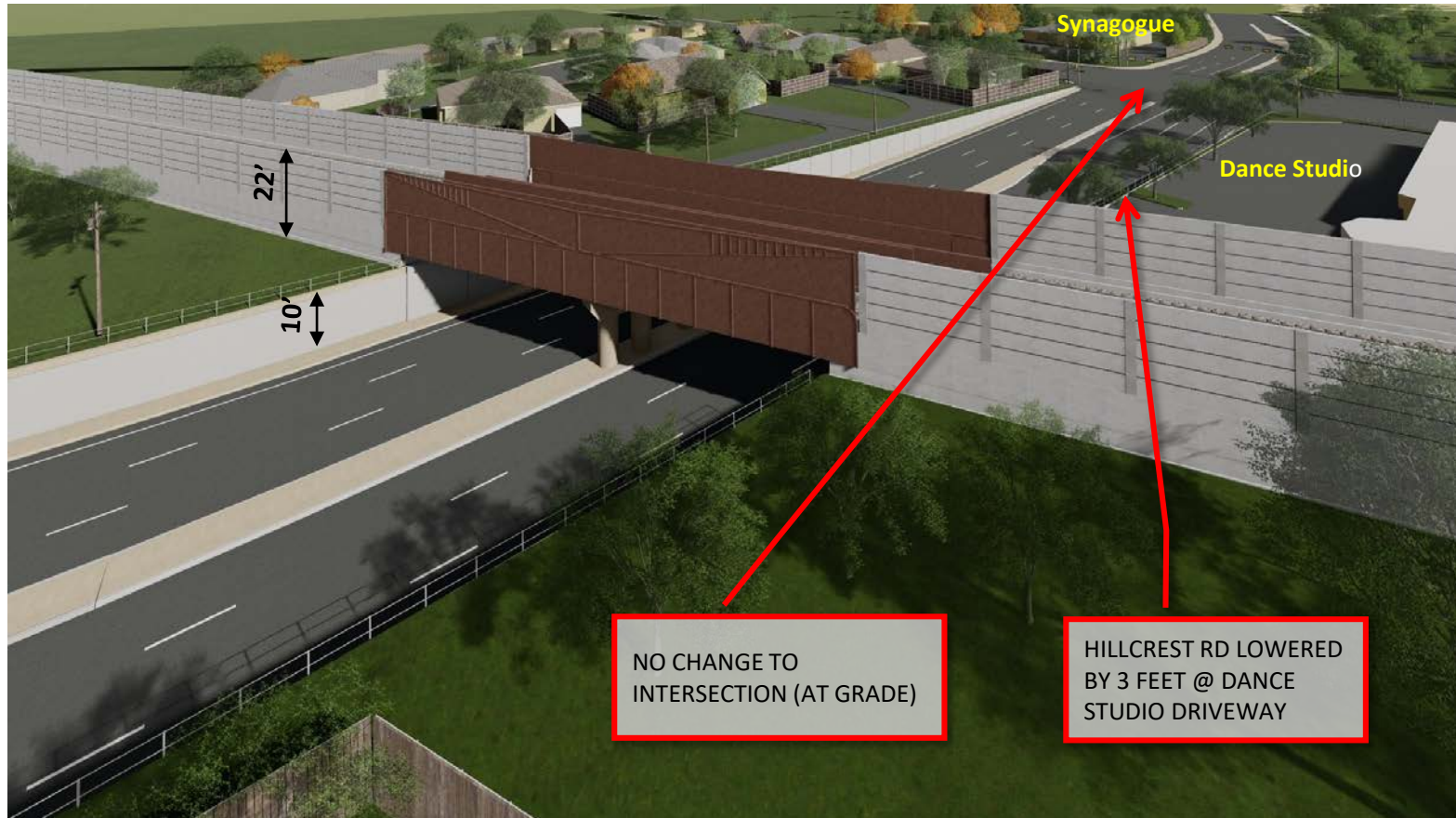


# Hillcrest Road – 10% Design (Aerial View Looking Northwest)

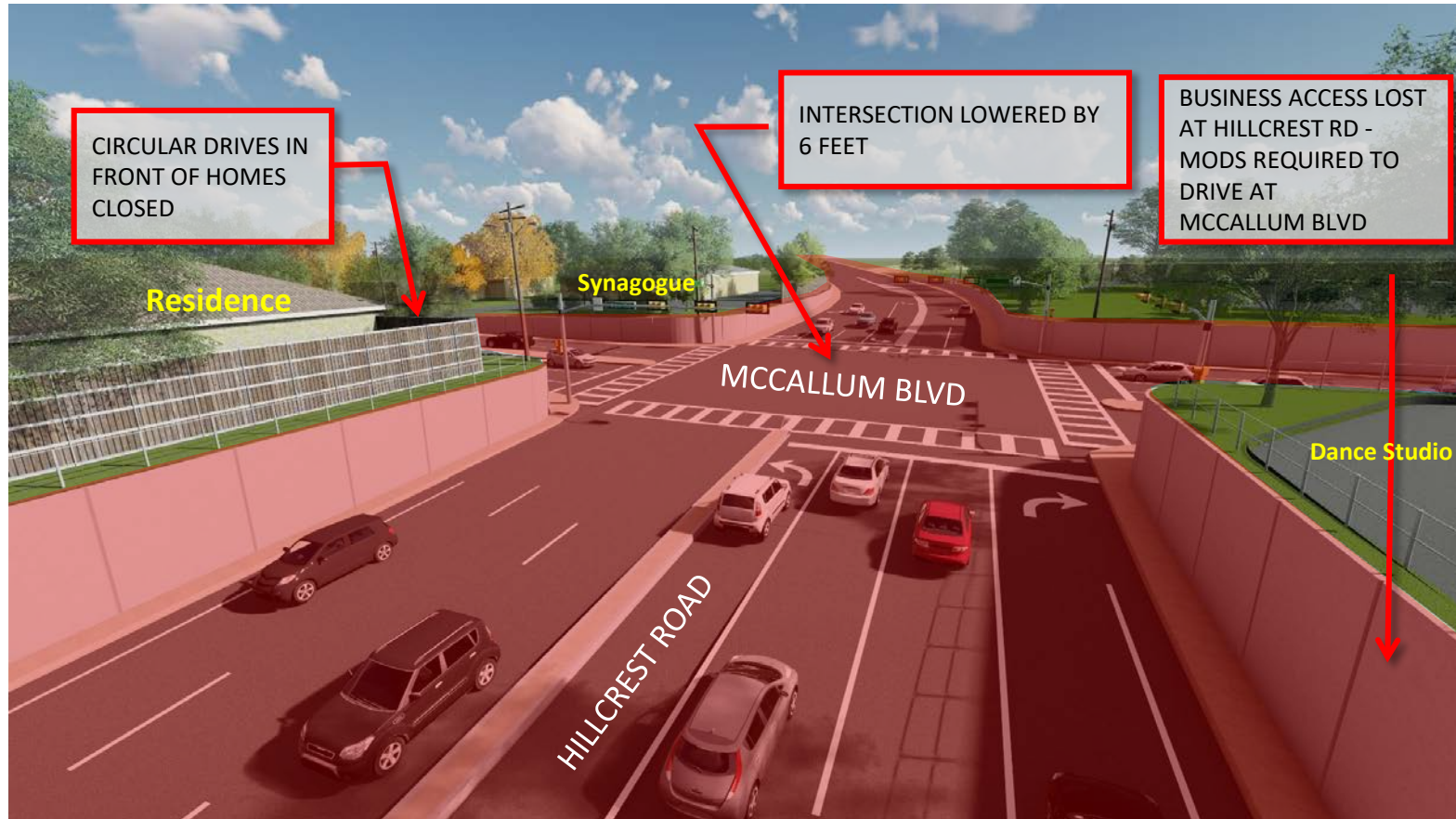




# Hillcrest Road – 30% Design (Aerial View Looking North)

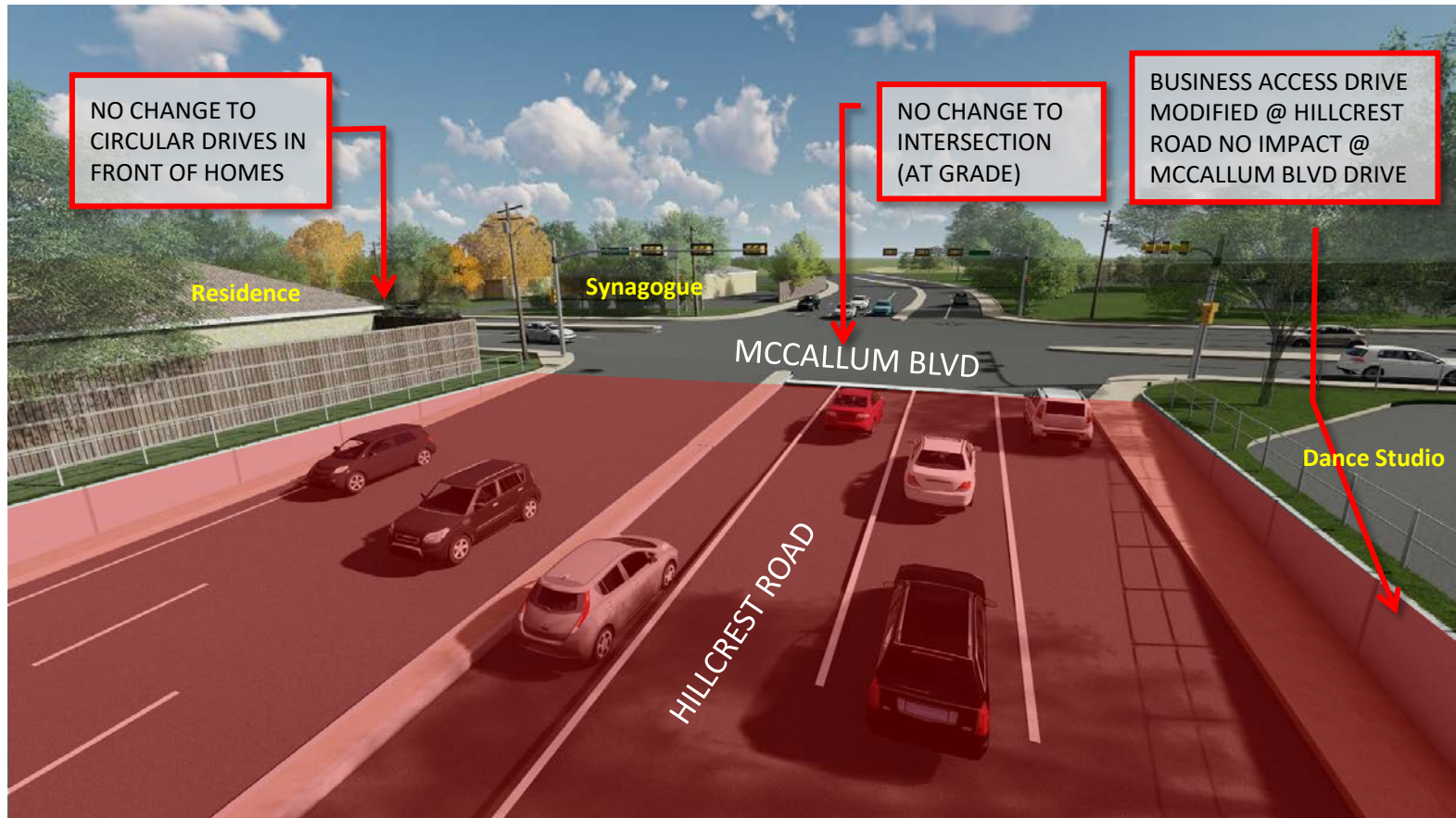


# Hillcrest Road – 10% Design (Hillcrest Road @ McCallum Blvd Looking North)

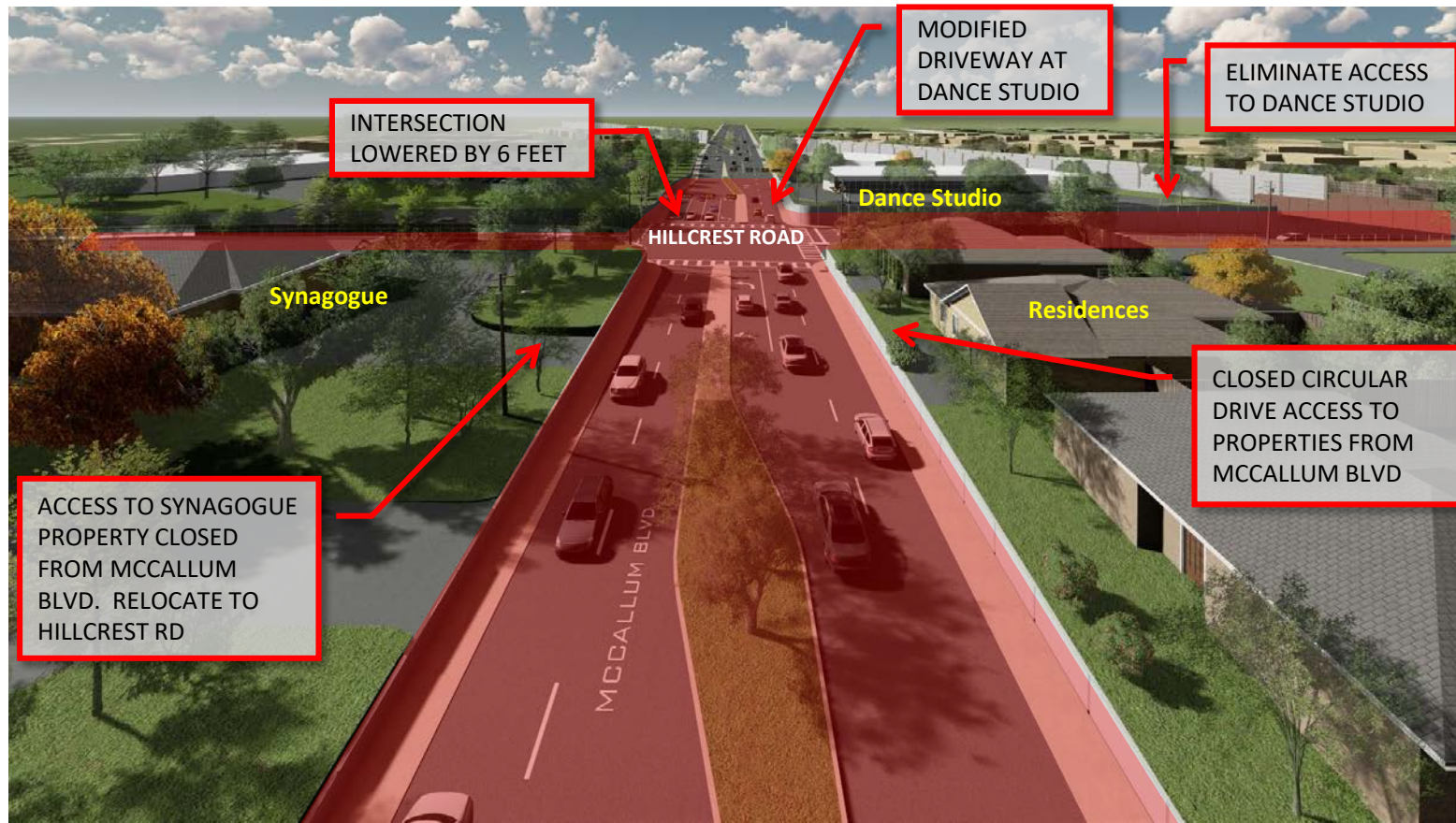




# Hillcrest Road – 30% Design (Hillcrest Road @ McCallum Blvd Looking North)

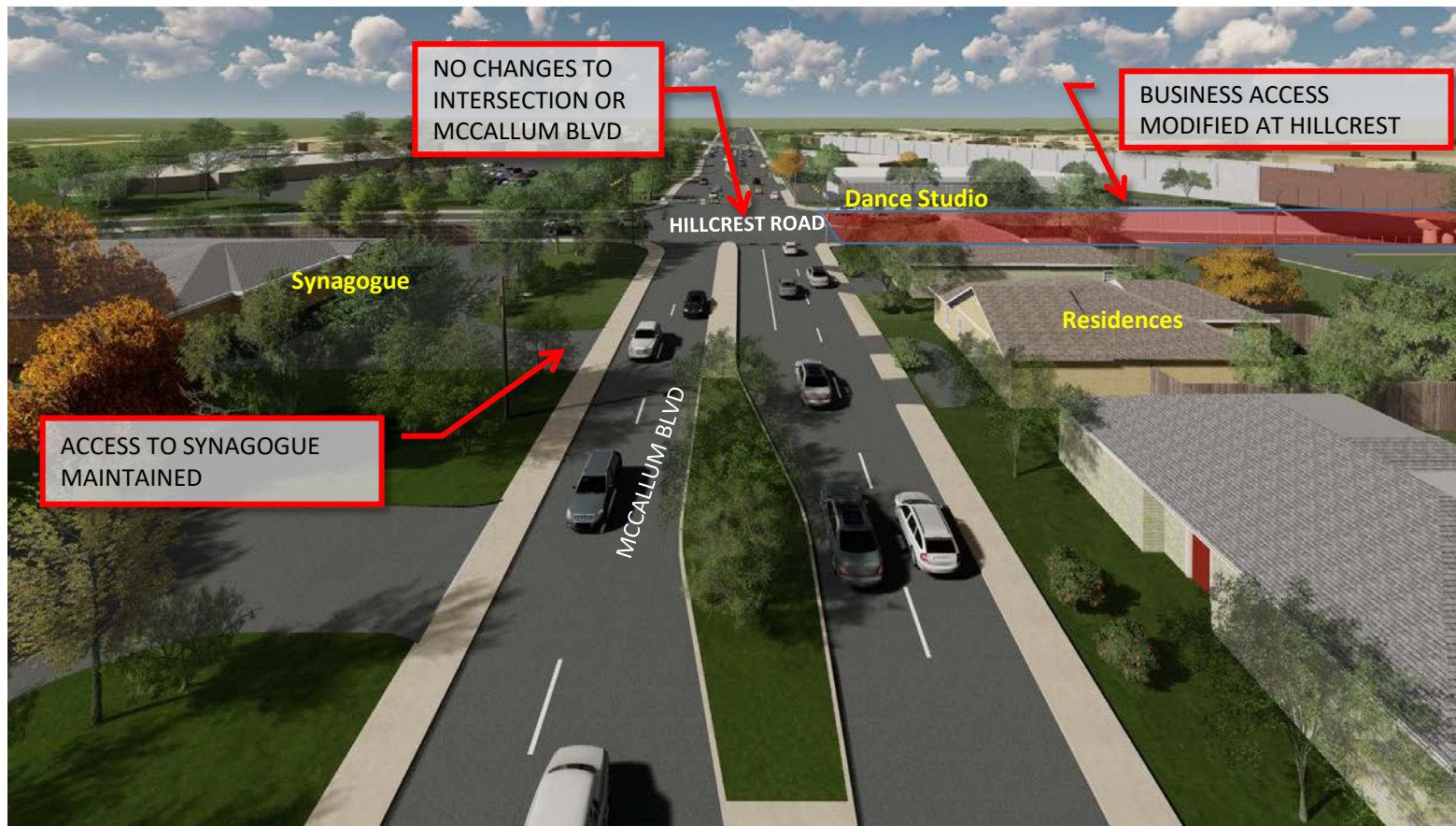


# Hillcrest Road – 10% Design (McCallum Blvd @ Hillcrest Road Looking East)





# Hillcrest Road – 30% Design (McCallum @ Hillcrest Looking East)



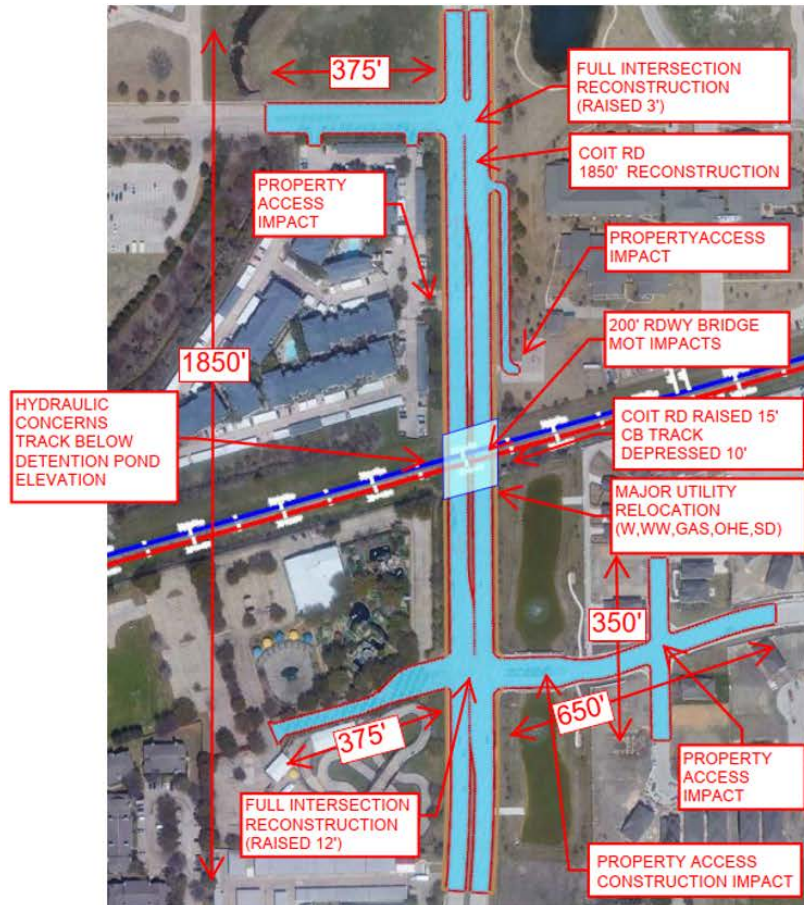
# Coit Road 10% Design / 30% Design

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- The 10% design was based on early concepts to “split” the difference between rail and Coit Road to minimize vertical structures and accommodate a station. Adventure Landing would have been acquired for station parking
- The Coit Road Station was removed prior to 10% approval
- 10% identified several driveway access impacts:
  - The northwest corner of Palencia apartments; close Coit Road driveway and relocate to Osage Plaza Parkway
  - Adventure Landing (no longer to be acquired); the only entrance to the property would be raised and modified with possible temporary closure
  - Reconstruction of entrance to University Place; raised intersection affects alleys and homes
- Mitigation approach was to coordinate with the City and community to maintain access to the greatest extent possible during construction and evaluate need for traffic signal and turn lanes at Sugar Cane Way @ Coit Road

# Coit Road 10% Design / 30% Design

COIT ROAD 10% DESIGN



COIT ROAD 30% DESIGN





# Coit Road – 10% Design (Aerial View Looking Northwest)



# Coit Road – 30% Design (Aerial View Looking Northwest)



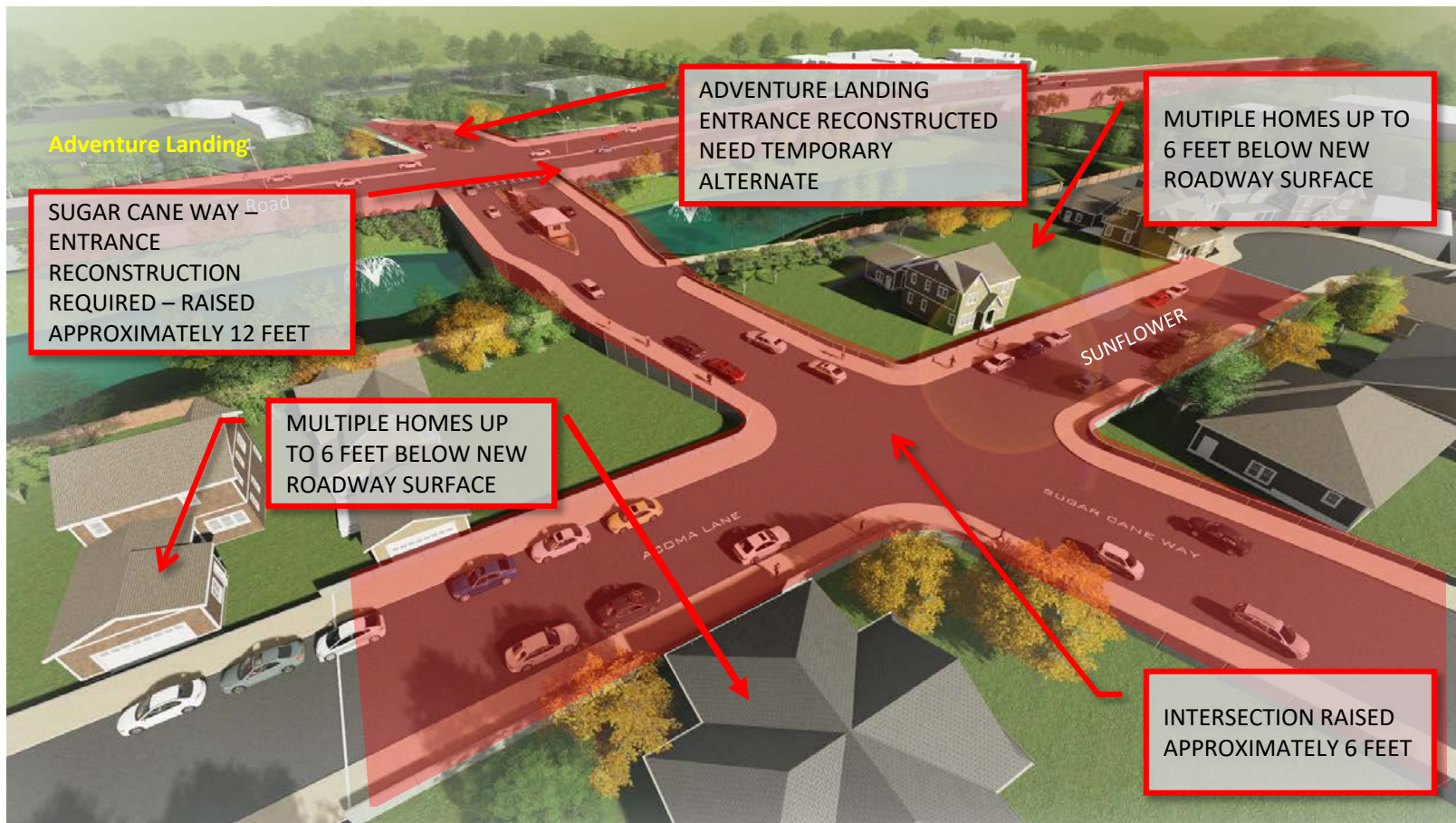


# Coit Road – Existing Condition (Sugar Cane Way Looking Northwest)





# Coit Road – 10% Design (Sugar Cane Way Looking Northwest)



# Coit Road – 30% Design (Sugar Cane Way Looking Northwest)



# Betterments Program

- Series of community meeting for residential adjacent property owners
- Betterments are project elements above and beyond the standard mitigation measures or design criteria

# DART Station Art & Design Program

- Committees comprised of site-specific members are working on station designs in coordination with DART and Design-Builder recommended station artists
- Station designs have been completed for three locations:
  - DFW North
  - Cypress Waters
  - Knoll Trail
- Committees continue to work on designs for stations in Addison, Carrollton, Richardson, and Plano



# Cypress Waters Station



# Cypress Waters Station



## Station Facts

Platform Type: Center

Parking Spaces: 199

Bus Bays: 4

Bus Routes: 2

Projected Daily Ridership:

Opening Day: 200

2040: 910

Mode of Access:

Bus Transfer: 17%

Drive: 36%

Walk: 47%

## Station Benefits

- Transit-Oriented Development opportunity
- Serves Cypress Waters via pedestrian trails and bus network
- Large employment centers in area
- Provides opportunity for station in DART Service Area

## Key Community Comments

- Supported by City of Coppell Council Resolution
- Supported by City of Dallas
- Supported by Cypress Waters developer
- Coppell citizen support for station

# Base Vehicle Information

- Environmentally and community friendly vehicle that meets tier 4 EPA emissions standards and FRA Standards
- Self-Propelled Diesel Multiple Unit (DMU)
- Automatic Passenger Counters
- Vehicle Business System (VBS)
- CCTV System
- Number of Seats per Vehicle: 230





# Questions?

