

EAST 51ST STREET IMPROVEMENT PROJECT

Design Commission
November 12, 2021



EAST 51ST STREET VISION PLAN



- Promote coordinated redevelopment for both sides of the corridor
- Support from Working Group and various community stakeholders

EAST 51ST STREET VISION STATEMENT

51st Street is a multi-modal urban street that accommodates safe pedestrian and bicycle movement as well as calm vehicular traffic.

51st Street is lined with buildings that promote a safe, interesting and lively pedestrian environment, with strong linkages and an appropriate scale transition to the Windsor Park neighborhood.



EAST 51ST STREET IMPROVEMENT

SCOPE

- Partial reconstruction of the roadway section from IH-35 to Berkman Drive
- Four-lane arterial roadway with intermittent center turn lane access
- Medians with breaks at intersections and at mid-block
- Pedestrian crossings at intersections to provide space for people walking, biking, and rolling to cross safely
- New tree-lined sidewalks on the north and south side
- Installation of a protected bicycle lane on the north side and an off-street bicycle lane on the south side
- New on-street parallel parking spaces
- Curb, gutter and drainage improvements
- Rain gardens and detention ponds for runoff and water quality enhancements
- Upgraded water service utilities on the north side
- Landscaping improvements through project corridor.



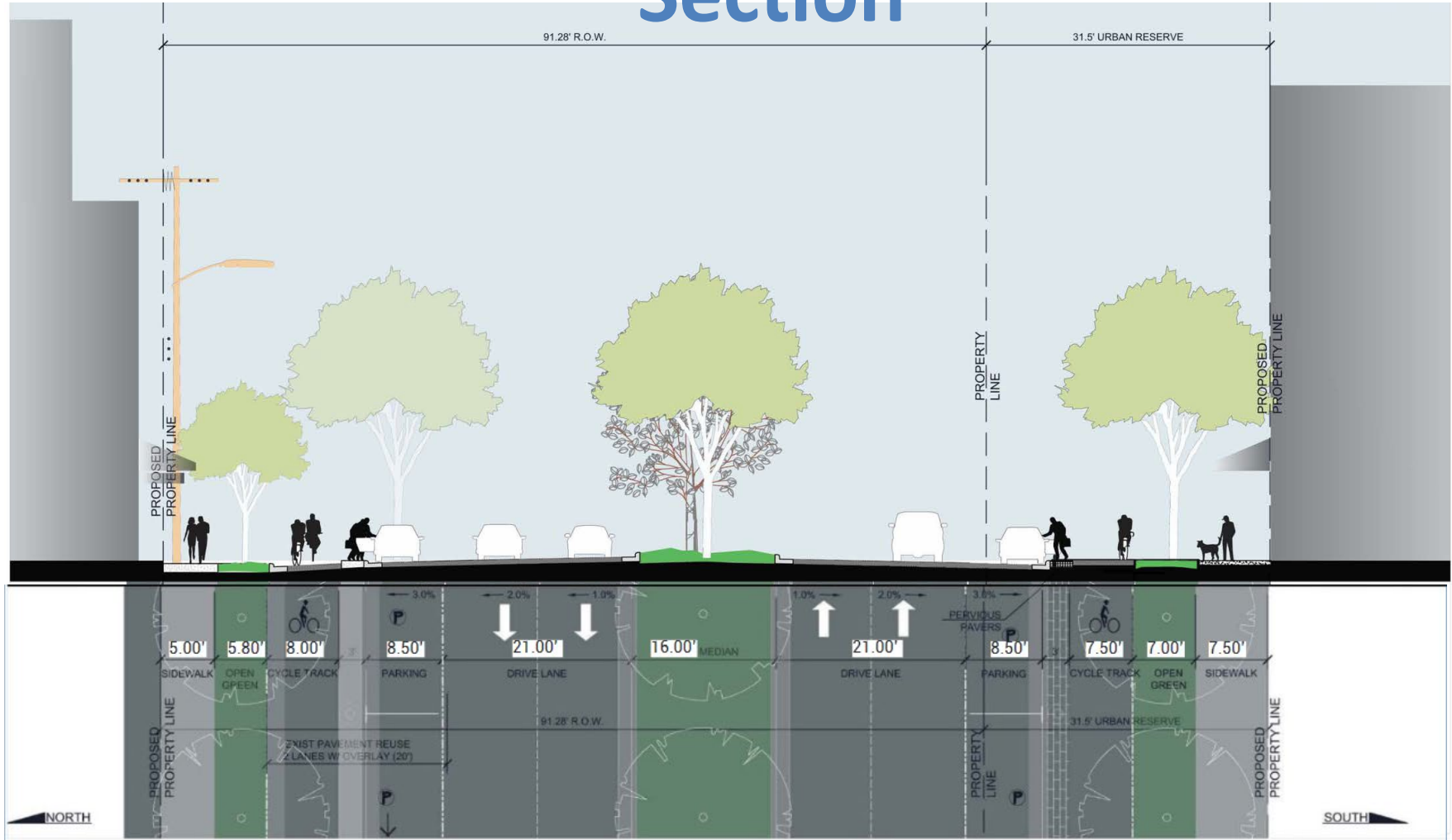
E 51ST STREET IMPROVEMENTS

DELL PEDIATRIC RESEARCH INSTITUTE

Typical Existing E. 51st St. Cross-Section

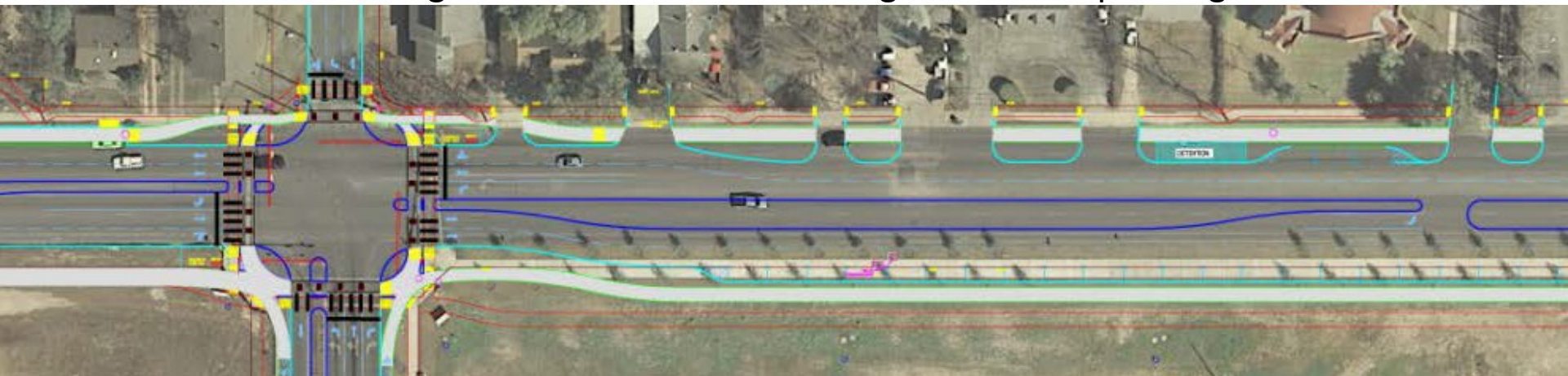


Proposed: East of Lancaster Typical Section



OUTCOME IMPROVEMENTS

- Improved multi-modal access
- Reduced queue lengths
- Reduced left turn conflicts
- Improved speed control
- Improved bicycle facilities
- Complete pedestrian connectivity
- Improved transit access
- More user friendly and esthetically pleasing streetscape
- Reuse of existing trees within corridor through relocation plantings



EAST 51ST STREET IMPROVEMENTS













LANDSCAPING



E 51st St Plan, IH-35 to Lancaster (WEST)



MATERIALS LEGEND













	Live Oak <i>Quercus virginiana</i> (To be transplanted from existing trees on south side of 51st Street between Lancaster Dr. & Mueller Blvd.)		'Natchez' Crape Myrtle <i>Lagerstroemia indica 'Natchez'</i>		Colorado River Rock 3"-6" Diameter
	Chinquapin Oak <i>Quercus muehlenbergii</i>		Palo Verde <i>Parkinsonia x 'Desert Museum'</i>		Permeable Pavers
	Bald Cypress <i>Taxodium distichum</i>		Desert Willow <i>Chilopsis linearis 'Bubba's Delight'</i>		Rain Garden/ Detention area
	Cedar Elm <i>Ulmus crassifolia</i>		Existing Live Oaks, East of Lancaster, (to remain in place)		Turf

E 51st St Plan, with Mueller Blvd (CENTER)



SECOND

MATERIALS LEGEND

	Live Oak <i>Quercus virginiana</i> (To be transplanted from existing trees on south side of 51st Street between Lancaster Dr. & Mueller Blvd.)		'Natchez' Crape Myrtle <i>Lagerstroemia indica 'Natchez'</i>		Colorado River Rock 3"-6" Diameter
	Chinquapin Oak <i>Quercus muehlenbergii</i>		Palo Verde <i>Parkinsonia x 'Desert Museum'</i>		Permeable Pavers
	Bald Cypress <i>Taxodium distichum</i>		Desert Willow <i>Chilopsis linearis 'Bubba's Delight'</i>		Rain Garden/ Detention area
	Cedar Elm <i>Ulmus crassifolia</i>		Existing Live Oaks, East of Lancaster, (to remain in place)		Turf

E 51st St Plan, with Berkman Dr. (EAST)



THIRD

MATERIALS LEGEND		
	Live Oak <i>Quercus virginiana</i> (To be transplanted from existing trees on south side of 51st Street between Lancaster Dr. & Mueller Blvd.)	
	'Natchez' Crape Myrtle <i>Lagerstroemia indica 'Natchez'</i>	
	Chinquapin Oak <i>Quercus muehlenbergii</i>	
	Palo Verde <i>Parkinsonia x 'Desert Museum'</i>	
	Bald Cypress <i>Taxodium distichum</i>	
	Desert Willow <i>Chilopsis linearis 'Bubba's Delight'</i>	
	Cedar Elm <i>Ulmus crassifolia</i>	
	Existing Live Oaks, East of Lancaster, (to remain in place)	

Questions?