

**APPENDIX H: Estimated Quantities & Opinions of Probable Construction Cost – Station  
Property Improvements**




## Parker Road Station

Opinion of Probable Constr. Cost = \$361,650

### Improvement Code Legend

ID: 1A-PR-ST-01

1A ← Station Number      ST ← Station Improvement  
 PR ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Opinion of Probable Cost

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
1A-PR-ST-01	DART	Lighting	Add pedestrian lighting for area where tree cover makes for dark nighttime conditions.	\$ 63,000
1A-PR-ST-02	DART	Fencing	Close gap in hedges that appears to imply this as a valid location for crossing the bus loop. Consider fencing to redirect pedestrians. The lack of ramps or a crosswalk across the bus loop here makes this an inappropriate location for a crossing. A fire hydrant here is likely the reason for the gap in the hedges, so fire hydrant access from the bus loop should be preserved.	\$ 600
1A-PR-ST-03	DART	Multi-Use Trail	Add Regional Veloweb shared use path to connect platform more directly to Parker Road to the north. Will require grading, new fence between parking lot and tracks, and drainage modifications. Concrete drainage swales drain parking lot downhill toward the east at several locations across proposed path alignment, so additional study will be required.	Separate Project
1A-PR-ST-04	DART	Bicycle Parking	Add educational signing at all covered bike parking locations regarding rules of use. Existing covered bike parking lids were locked. Several of the locked lids were empty without bikes inside or were storing personal belongings. The locking of empty lids indicates a shortage of available covered bike parking.	\$ 900
1A-PR-ST-05		Signing		\$ 900
1A-PR-ST-06	DART	Bicycle Parking	Add additional covered bike parking, preferably closer to train platform (at Location 4).	\$ 16,100
1A-PR-ST-07	DART	ADA Ramp or Relocate ADA Parking	Relocate ADA parking from Location 7 closer to the north crosswalk to the train platform (near Location 3). Reasons for this change are: <ul style="list-style-type: none"> <li>• Ramps are absent for crossing the southbound tracks east of the bus loop (near Location 6).</li> <li>• Much of the ADA parking for the station is in the small parking lot immediately west of the bus loop (Location 7 and southwest of Location 10). Some ADA parking is already located southwest of the platform near Location 14.</li> <li>• The lack of ramps near Location 6 requires passengers in wheelchairs to travel to the compliant crosswalks at the north or south ends of the platform (Locations 7a or 7b) rather than the more direct route via the central crosswalk.</li> </ul>	\$ 24,300
1A-PR-ST-08	DART	Crosswalk Markings	Add 12" white markings on each side of brick paver crosswalks. Bus loop crosswalks are stop-controlled, but need white markings outside the brick area to be legal crosswalks.	\$ 1,500
1A-PR-ST-09				
1A-PR-ST-10	DART	Crosswalk Signs and Markings	Add pedestrian warning signs and 12" white markings outside brick pavers for Kiss & Ride crosswalk. (Crosswalk is raised to slow drivers but not signed or marked.)	\$ 2,300
1A-PR-ST-11	DART	Sidewalk Repair	Correct trip hazard on sidewalk.	\$ 500
1A-PR-ST-12	DART	Landscaping	Trim hedges or replace with easier maintenance plants so they don't encroach on sidewalk.	\$ 6,400
1A-PR-ST-13	DART	Landscaping	Close hedge gap that provides access to existing covered bike parking (at Location 5). Gap in hedges is convenient for bicycle access to existing covered parking, but lacks ramps and conflicts with bus loop. Provide bike parking closer to platform as indicated at Location 4 above.	\$ 300
1A-PR-ST-14	DART	Multi-Use Trail	Add new shared use path connecting platform more directly to Park Blvd to the south on planned Regional Veloweb alignment. May require relocation of utilities or removal of trees and/or parking spaces.	Separate Project
1A-PR-ST-18	DART	Add anti-climb fencing	Add taller anti-climb fence along east DART property line from north end of tail track to southeast corner of platform to channelize pedestrian crossings to new connection via Plano City property to the southeast	\$ 211,250
<b>Opinion of Probable Cost - DART Subtotal</b>				<b>\$ 328,050</b>
1A-PR-ST-15	City of Plano	Sidewalk	Add connection via City-owned property south of platform. Additional study will be required.	Separate Project
1A-PR-ST-16	City of Plano	Tree Trimming	Trim tree blocking flashing light for crosswalk.	Negligible

### CityLine/Bush Station

**Opinion of Probable Constr. Cost = \$152,600**

**Improvement Code Legend**  
 ID: 1A-PR-ST-01  
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Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
1C-CB-ST-01	DART	Tourist Sign Relocation	The Dallas tourism "BiG" sign on Routh West Dr just south of the station should be reversed to face the opposite direction or the sign should be relocated to a safer position. The sign faces the street, a poor orientation since those taking photographs of others posing at the sign will be tempted to stand in the travel lanes.	\$ 900
1C-CB-ST-02	DART	ADA Ramp Adjustment	Widen the ADA ramp to Routh West Dr from the south end of the platform to allow wheelchair users to bypass the large vine sculpture blocking the top of the ramp.	\$ 2,800
1C-CB-ST-04	DART/City of Richardson	Warning Signs & Ramps	Add pedestrian warning signs on the right-hand side of the roadway at the six crosswalks to the station platform across Routh East Dr and Routh West Dr. Existing signs are mounted on the left-hand side only. (The signs on the west side of Routh West Drive would be on City of Richardson property, but the signs on the east side of Routh East Drive would be on DART property). Add missing ADA ramps at two of the same locations. Of the total \$10,400 cost listed at right, half is assumed attributable to DART and half to City of Richardson.	\$ 10,400
1C-CB-ST-07	DART/ TxDOT/ City of Plano	Sidewalk, Crosswalk Signs & Markings, PHB	Construct a new, short segment of sidewalk on the west side of the Crawford Rd/Topridge Dr crossing under the PGBT, near the north end of the underpass adjacent to the PGBT westbound frontage road (WBFR). Add marked, signed crosswalks across the east and west legs of the WBFR. The existing sidewalk on the west side extends north from the PGBT eastbound frontage road (EBFR), but ends just south of the WBFR. These crosswalks would provide added conspicuity for pedestrians who decide crossing at the signal proposed at Location 8 would be too far out of their desired travel path. Provide pedestrian hybrid beacon with advance "Yield Here to Pedestrians" signing for crossing PGBT westbound frontage road. Cost amount shown at right (1/3 of overall cost) is assumed shared responsibility by DART, with remainder by TxDOT and City of Plano. See half-mile area improvements 1C-CB-CW-042 and 1C-CB-CW-043 for more details and cost information.	\$ 63,000
1C-CB-ST-08	DART/ City of Plano/ City of Richardson	Sidewalk	Construct new sidewalk on the east side of the Crawford Rd/Topridge Dr crossing under the PGBT between the PGBT westbound frontage road (WBFR) and eastbound frontage road (EBFR). Cost amount shown (1/3 of overall cost) is assumed shared responsibility by DART, with remainder by the Cities of Plano and Richardson. See half-mile area improvement 1C-CB-CW-056 for more details and cost information.	\$ 13,100
1C-CB-ST-09	DART/ TxDOT/ City of Richardson	Crosswalk Signs & Markings, PHB	Add a crosswalk across the east leg of the PGBT Eastbound Frontage Road (EBFR) at Topridge Dr. Provide pedestrian hybrid beacon with advance "Yield Here to Pedestrians" signing. See also half-mile area improvement 1C-CB-CW-059. Cost amount shown (1/3 of overall cost) is assumed shared responsibility by DART, with remainder by TxDOT and/or City of Richardson. See half-mile area improvement 1C-CB-CW-056 for more details and cost information.	\$ 59,000
<b>Opinion of Probable Cost - DART/Mixed Ownership Subtotal (DART Portion of Costs Only).....</b>				<b>\$ 144,000</b>
<b>Opinion of Probable Cost - City of Richardson Subtotal.....</b>				<b>\$ 5,200</b>
1C-CB-ST-03	DART/ Private Property	Sidewalk	Coordinate with the adjacent property owner to add a direct sidewalk connection between train platform & bus loop. A worn path in the grass ("goat trail") exists between the southwest corner of the Alexan Central Apartments dog park on Pipeline Dr and the DART bus stops along the PGBT eastbound frontage road. This is the most direct route between the train station platform and the bus stops, shorter than walking north along Routh West Dr and the frontage road. See off-site improvement 1C-CB-CW-071. No assumed cost responsibility by DART.	\$ -
1C-CB-ST-06	DART/ Private Property	Sidewalk	Coordinate with the adjacent property owner to construct a short segment of sidewalk for more direct travel between the southern crosswalk to the train platform and the south sidewalk along State St. A "goat trail" cuts the corner where the existing sidewalk is offset from the crosswalk, indicating existing pedestrian demand. See off-site improvement 1C-CB-CW-044. No assumed cost responsibility by DART.	\$ -
<b>Opinion of Probable Cost - DART/Private Property Subtotal.....</b>				<b>\$ -</b>
1C-CB-ST-05	TxDOT	Sidewalk repair	Repair the sidewalk panel where settlement has created a trip hazard near the pedestrian pushbutton on the north side of the President George Bush Turnpike (PGBT) eastbound frontage road at Routh West Dr.	\$ 3,400
1C-CB-ST-10	TxDOT	Add Traffic Signal with Crosswalk Markings	Coordinate with TxDOT to add signalized crosswalk across the PGBT WBFR just east of the track crossing. This crosswalk will provide safer access to the DART station for residents of the apartments on the north side of the westbound frontage road. See off-site half-mile area improvement 1C-CB-CW-045 for more details. This improvement is being constructed as part of the Silver Line Project.	\$ -
<b>Opinion of Probable Cost - TxDOT Subtotal.....</b>				<b>\$ 3,400</b>
General	---	Pedestrian Ramps	Many pedestrian ramps in the station area are missing detectable warning surfaces, which should be added.	N/A
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 152,600</b>


**DART Last Mile Connections Project - CityLine/Bush Station Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
1C-CB-ST-01	728	REMOVE AND RESET SIGN	Each	\$ 223.00	3	3	\$ 669.00	"BIG" was assumed to be 3 signs
Tourist Sign Relocation		Contingency				25%	\$ 167.25	
	<b>Subtotal</b>						\$ 900.00	
1C-CB-ST-02	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	Assumed widening ramp to double its current width would be same cost as standard ramp.
ADA Ramp Adjustment		Contingency				25%	\$ 545.69	
	<b>Subtotal</b>						\$ 2,800.00	
1C-CB-ST-03	Project straddling DART & adjacent private property - quantified under half-mile area off-site improvements.							
Add Sidewalk	Cost assumed attributable to City of Richardson if coordination with private property owner is successful. See off-site improvement 1C-CB-SW-071.							
1C-CB-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	6	6	\$ 3,900.00	6 signs for 6 crosswalks (right-side only) and 2 ramps
Add Warning Signs and ramps	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
		Contingency				25%	\$ 2,066.38	
	<b>Subtotal</b>						\$ 10,400.00	
1C-CB-ST-05	203	REMOVE CONCRETE SIDEWALK	SF	\$ 4.00	240	240	\$ 960.00	Replace 12' x 20' area of sidewalk; may be less if lower panel adjacent to pole is replaced instead.
Sidewalk repair	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	26.7	27	\$ 1,701.00	
		Contingency				25%	\$ 665.25	
	<b>Subtotal</b>						\$ 3,400.00	
1C-CB-ST-06	Project straddling DART & adjacent private property - quantified under half-mile area off-site improvements.							
Add Sidewalk	Cost assumed attributable to City of Richardson if coordination with private property owner is successful. See off-site improvement 1C-CB-SW-044.							
1C-CB-ST-07	Project straddling DART & adjacent City of Plano & TxDOT ROW - costs quantified under half-mile area off-site improvements.							
Add Sidewalk, Crosswalk Signs & Markings, PHB	See off-site improvements 1C-CB-SW-042, 1C-CB-CW-042 and 1C-CB-CW-043 for detailed cost information.							
	<b>Subtotal</b>						\$ 63,000.00	Of total \$188,900 estimated cost for crosswalks and west-side sidewalk, 1/3 is assumed for DART & 2/3 for TxDOT/City of Plano.
1C-CB-ST-08	Project straddling DART & adjacent City of Plano & City of Richardson ROW - costs quantified under half-mile area off-site improvements.							
Add Sidewalk	See off-site improvement 1C-CB-SW-056 for detailed cost information.							
	<b>Subtotal</b>						\$ 13,100.00	Of total \$39,400 estimated cost for east-side sidewalk, 1/3 is assumed for DART & 2/3 for City of Plano/City of Richardson.
1C-CB-ST-09	Project straddling DART & adjacent City of Plano & City of Richardson ROW - costs quantified under half-mile area off-site improvements.							
Crosswalk Signs & Markings, PHB	See off-site improvement 1C-CB-CW-059 for detailed cost information.							
	<b>Subtotal</b>						\$ 59,000.00	Of total \$176,900 estimated cost for the crosswalk & PHB, 1/3 is assumed for DART & 2/3 for TxDOT/City of Richardson.
1C-CB-ST-10	Separate Project straddling DART & adjacent TxDOT/City of Plano ROW - See off-site improvement 1C-CB-CW-045.							
Pedestrian Traffic Signal								
<b>Grand Total</b>							<b>\$ 152,600.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			<b>25%</b>
			<b>Total Contingency</b>

## Galatyn Park Station

Opinion of Probable Constr. Cost = \$0

**Improvement Code Legend**  
**ID: 2A-GP-ST-01**  
 2A ← Station Number      ST ← Station Improvement  
 GP ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)

North Central Texas Council of Governments

DART Red & Blue Line Corridors Last Mile Connections



Opinion of Probable Cost

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
2A-GP-ST-01	DART	Sidewalk	Build sidewalk connection to the existing Central Trail on the south end of the DART train platform. This connection is already planned and funded under DART's ongoing Red and Blue Platform Extension Project.	N/A

*Opinion of Probable Cost - DART Subtotal*..... \$ -

*Opinion of Probable Cost - Total for All Recommendations at Station*..... \$ -

**DART Last Mile Connections Project - Parker Road Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
2A-GP-ST-01		<i>Not Applicable - Planned and funded under DART's ongoing Red and Blue Platform Extension Project</i>						
<b>Grand Total</b>							\$ -	

Contingency Items:	Contingency	Contingency Items:	Contingency	
Design Fee	10%	Erosion & Sediment Control Allowance	2%	25% Total Contingency
Mobilization	4%	Traffic Control Allowance	3%	
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

# Spring Valley Station


**Opinion of Probable Constr. Cost = \$239,900**

**Improvement Code Legend**

ID: 2C-SV-ST-01

2C ← Station Number      ST ← Station Improvement

SV ← Station Abbreviation

01 ← Improvement Number (matches  on Map)



**Opinion of Probable Cost**

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
2C-SV-ST-01	DART	Sidewalk repair	Correct pedestrian trip hazard.	\$ 800
2C-SV-ST-02	DART	Bus stop sign relocation	Relocate bus station sign to the far side of the crosswalk to ensure pedestrian safety.	\$ 300
2C-SV-ST-03 2C-SV-ST-04 2C-SV-ST-05	DART	Update pedestrian signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs are fading, have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 4,900
2C-SV-ST-06	DART	Add Pedestrian Lighting	Install pedestrian lighting along the Central Trail near the station.	\$ 168,900
2C-SV-ST-07	DART	Update Do Not Enter Sign	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 900
2C-SV-ST-08	DART	Sidewalk repair	Correct pedestrian trip hazard.	\$ 1,500
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 177,300</b>
2C-SV-ST-09	City of Richardson	Add fencing	Install median fence along Spring Valley Road in front of DART station to ensure pedestrians cross at the crosswalks.	\$ 62,600
<b>Opinion of Probable Cost - City of Richardson Subtotal.....</b>				<b>\$ 62,600</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 239,900</b>



**DART Last Mile Connections Project - Spring Valley Station Preliminary Opinion of Probable Construction Cost**


Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
2C-SV-ST-01	203	REMOVE CONCRETE SIDEWALK	SF	\$ 4.00	49	50	\$ 200.00	Assume 7*7=49 sf
Sidewalk repair	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	5.44	6	\$ 378.00	
		Contingency				25%	\$ 144.50	
	<b>Subtotal</b>						\$ 800.00	
2C-SV-ST-02	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	1 sign
Bus stop sign relocation		Contingency				25%	\$ 55.75	
	<b>Subtotal</b>						\$ 300.00	
2C-SV-ST-03 2C-SV-ST-04 2C-SV-ST-05	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	6	6	\$ 3,900.00	6 signs
Update pedestrian signs		Contingency				25%	\$ 975.00	
	<b>Subtotal</b>						\$ 4,900.00	
2C-SV-ST-06	680 A	2" PVC STREET LIGHT CONDUIT - BORE	Lin. Ft.	\$ 18.00	1400	1400	\$ 25,200.00	Lighting needed for approx. 1400'; assumed 60' spacing, or 23 poles
Add Pedestrian Lighting	687	PEDESTRIAN LIGHT FOUNDATION	Each	\$ 1,208.00	23	23	\$ 27,784.00	
	688	STREET LIGHT PULL BOXES	Each	\$ 860.00	7	7	\$ 6,020.00	
	691	PROCURE AND INSTALL PEDESTRIAN LIGHT POLE	Each	\$ 2,158.00	23	23	\$ 49,634.00	
	692	PROCURE AND INSTALL PEDESTRIAN LIGHT FIXTURES	Each	\$ 1,382.00	23	23	\$ 31,786.00	
	841	#6 STREET LIGHT WIRE	Lin. Ft.	\$ 3.00	3080	3100	\$ 9,300.00	
	842	ELECTRICAL METER AND BASE	Lump Sum	\$ 12,797.00	1	1	\$ 12,797.00	
		Contingency					25%	
<b>Subtotal</b>							\$ 168,900.00	
2C-SV-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 signs
Update Do Not Enter Sign		Contingency				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	
2C-SV-ST-08	203	REMOVE CONCRETE SIDEWALK	SF	\$ 4.00	120	120	\$ 480.00	Assuming remove 3 panels, 6*20=120 sf
Sidewalk repair	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	13.33	14	\$ 882.00	
		Contingency				25%	\$ 120.00	
	<b>Subtotal</b>						\$ 1,500.00	
2C-SV-ST-09	XXXX	Architectural quality 6' metal fence	Lin. Ft.	\$ 130.00	385	385	\$ 50,050.00	385' fence
Add fencing		Contingency				25%	\$ 12,512.50	
		<b>Subtotal</b>					\$ 62,600.00	
<b>Grand Total</b>							<b>\$ 239,900.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			<b>25%</b>
			<b>Total Contingency</b>



## Downtown Garland Station

**Opinion of Probable Constr. Cost = \$174,500**

**Improvement Code Legend**  
**ID: 3A-DG-ST-01**  
 3A ← Station Number      ST ← Station Improvement  
 DG ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)

North Central Texas Council of Governments  
 DART Red & Blue Line Corridors Last Mile Connections



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
3A-DG-ST-01 3A-DG-ST-02	DART	Add pavement crosswalk markings and stopbars	Add crosswalk striping just outside and parallel to the decorative brick crosswalks. Add stop bar striping ahead of the stop signs in advance of each crosswalk.	\$ 2,000
3A-DG-ST-03	DART	Add pedestrian signs	Add pedestrian signs ahead of pedestrian crosswalk.	\$ 1,700
3A-DG-ST-04 3A-DG-ST-05	DART	Add landscaping	Remove goat trails that encourage mid-block crossings by adding landscaping.	\$ 4,900
3A-DG-ST-07	DART	Add pavement markings for bus loop crosswalks	Add a more direct crosswalk/sidewalk connection between the bus loop and the northeast corner of the Walnut Street/5th Street intersection to encourage pedestrians to cross at the signalized crosswalk. Install crosswalk markings and stop signs for bus loop crossing. A "goat trail" exists along the path of the proposed sidewalk presently, indicating demand for a more direct pedestrian route. A section of fence adjacent to the bus loop will need to be removed as part of this improvement.	\$ 6,900
3A-DG-ST-08	DART	Install new bike lids	Add covered bike parking near the southeast corner of Walnut Street and 5th Street intersection. This will put bike parking closer to the train platform so that bicyclists do not have to cross north of Walnut Street or to the east end of the platform to park.	\$ 10,800
3A-DG-ST-9	DART	Add Crosswalk Markings	Restripe faded crosswalk on the east leg of DART driveway and 5th Street intersection.	\$ 1,300
3A-DG-ST-10	DART	Update Speed Limit sign	Replace non-standard sign with R2-1 sign from MUTCD. Sign should be retroreflective for increased nighttime visibility. Uniform signs reinforce driver respect as legitimate traffic control devices.	\$ 900
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 28,500</b>
3A-DG-ST-06	City of Garland	Add fencing	Add median fence along Walnut Street in front of DART station to restrict mid-block crossings and channelize pedestrians to signalized crosswalks at 4th Street and 5th Street intersections.	\$ 146,000
<b>Opinion of Probable Cost - City of Garland Subtotal.....</b>				<b>\$ 146,000</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 174,500</b>



**DART Last Mile Connections Project - Downtown Garland Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
3A-DG-ST-01	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	120	120	\$ 1,080.00	12" line on either side of 120' crosswalks, 2 stop bars
3A-DG-ST-02	724	18" THERMO STOP LINE MARKER	Lin. Ft.	\$ 8.00	60	60	\$ 480.00	
Add pavement crosswalk markings and stopbars		Contingency				25%	\$ 390.00	
	<b>Subtotal</b>						\$ 2,000.00	
3A-DG-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Add 2 pedestrian signs ahead of pedestrian crosswalk
Add pedestrian signs		Contingency				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
3A-DG-ST-04	DART BID ITEMS	Plant Material (5 Gal Shrub)	SF	\$ 15.00	250	250	\$ 3,750.00	Add shrub and mulch.
3A-DG-ST-05		Mulch	SY	\$ 5.00	27.78	28	\$ 140.00	
Add landscaping			Contingency				25%	
	<b>Subtotal</b>						\$ 4,900.00	
3A-DG-ST-06	XXXX	Architectural quality 6' metal fence	Lin. Ft.	\$ 130.00	360	360	\$ 46,800.00	Install anti-climb fence atop median barrier along median of Walnut St between 4th St & 5th St
Add fencing	545 6006	CRASH CUSH ATTEN (INSTL)(L)(N)(TL2)	EA	\$ 8,000.00	2	2	\$ 16,000.00	
	514 6038	PERM CTB (SSCB)(TY 1)(MOD)	LF	\$ 150.00	360	360	\$ 54,000.00	
		Contingency				25%	\$ 29,200.00	
		<b>Subtotal</b>					\$ 146,000.00	
3A-DG-ST-07	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	70	70	\$ 630.00	Assume 6' wide crosswalk 35' long. Assume 5' wide sidewalk 70' long, 2 STOP SIGNS,
Add pavement markings for bus loop crosswalks	355	4" THICK REINF CONC WALK (converted from Sq. Ft. to Sq.	Sq. Yd.	\$ 63.00	41.666667	42	\$ 2,646.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
	1604 A	REMOVE OR REPLACE FENCE	Lin. Ft.	\$ 53.00	5	5	\$ 265.00	
	724	18" THERMO STOP LINE MARKER	Lin. Ft.	\$ 8.00	30	30	\$ 240.00	
	DART BID ITEM	Remove Existing Shrub	SF	\$ 10.00	41.666667	42	\$ 420.00	
		Contingency				25%	\$ 1,375.25	
	<b>Subtotal</b>					\$ 6,900.00		
3A-DG-ST-08	XXX	BikeLid covered bike parking	Each	\$ 2,145.00	4	4	\$ 8,580.00	Add 4 bike parkings
Install new bike lids		Contingency				25%	\$ 2,145.00	
	<b>Subtotal</b>						\$ 10,800.00	
3A-DG-ST-9	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	110	110	\$ 990.00	Assume 6' wide crosswalk 40' long, 50% covered with thermo.
Add Crosswalk Markings		Contingency				25%	\$ 247.50	
	<b>Subtotal</b>						\$ 1,300.00	
3A-DG-ST-10	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 speed limit sign needs to be updated
Update Speed Limit sign		Contingency				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	
<b>Grand Total</b>							<b>\$ 174,500.00</b>	


Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25% Total Contingency

# Forest Jupiter Station

**Opinion of Probable Constr. Cost = \$188,400**

### Improvement Code Legend

ID: 3B-FJ-ST-01

3B ← Station Number      ST ← Station Improvement  
 FJ ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
3B-FJ-ST-01	City of Garland	Install Pedestrian Push Buttons	Install missing pedestrian pushbuttons on the southeast corner of Forest Lane and Barnes Drive.	\$ 3,200
<b>Opinion of Probable Cost - City of Garland Subtotal.....</b>				<b>\$ 3,200</b>
3B-FJ-ST-02	DART	Widen existing sidewalk	Widen existing sidewalk from 3 feet to minimum 5 feet to accommodate pedestrian needs.	\$ 60,700
3B-FJ-ST-03	DART	Build new sidewalk	Build new sidewalk on the east side of the DART entrance south of Barnes Drive.	\$ 67,800
3B-FJ-ST-04 3B-FJ-ST-05	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
3B-FJ-ST-06	DART	Relocate signs	Relocate handicap parking sign and passenger loading directional sign to avoid inadvertent entry to the bus loop by non-bus drivers. If implementing recommendation 7 below, new, separate directional signs will be required. A sign for passenger loading would be appropriate at location 6, while a sign for handicap parking should be provided facing southbound driveway traffic on the west side of the entry driveway, north of the bus loop entry (location 6b).	\$ 600
3B-FJ-ST-07	DART	Relocate ADA parking closer to platform	Relocate handicap parking spaces from their current position near the central sidewalk access to the train platform (near location 8) to the spaces near the western sidewalk access to the platform (location 7). The current location of the handicap parking spaces requires disabled pedestrians to travel farther since the crossing to the platform does not include pedestrian ramps.	\$ 20,800
3B-FJ-ST-08	DART	Add bus loop crosswalks	Add crosswalk striping parallel to and on either side of the existing crosswalk.	\$ 600
3B-FJ-ST-09	DART	Build new pedestrian ramps	Build ramps to the existing crosswalk.	\$ 5,500
3B-FJ-ST-10 3B-FJ-ST-11	DART	Pedestrian Signs	Update pedestrian signs to meet MUTCD standards.	\$ 1,700
3B-FJ-ST-12	DART	Speed Limit Sign	Update speed limit signs to meet MUTCD standards.	\$ 900
3B-FJ-ST-13	DART	Build new sidewalk	Build new sidewalk connecting station platform with Forest Lane to the east. A worn path in the grass indicates existing pedestrian demand in this location.	\$ 24,900
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 185,200</b>
3B-FJ-ST-14	Private Property	Multi-Use Trail	Build new shared use path along rail alignment for more direct access to and from Jupiter Road to the south. Fencing, lighting, and security cameras may be needed where the path alignment is obscured from view under the rail bridge and immediately south of the adjacent building.	Separate Project
<b>Opinion of Probable Cost - Private Property Subtotal.....</b>				<b>\$ -</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 188,400</b>

**DART Last Mile Connections Project - Forest Jupiter Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
3B-FJ-ST-01	749	PROC & INSTALL PEDE PUSH BUTTON/SIGN	Each	\$ 1,255.00	2	2	\$ 2,510.00	Install 2 Pedestrian Push Buttons
Install Pedestrian Push Buttons		<i>Contingency</i>				25%	\$ 627.50	
	<b>Subtotal</b>						\$ 3,200.00	
3B-FJ-ST-02	355	4" THICK REINF CONC WALK (converted from Sq. Ft. to Sq. Yd.)	Sq. Yd.	\$ 63.00	165.33	165	\$ 10,395.00	Widen existing sidewalk from 3' to 6', assuming length 248'. Relocate 4 light poles. Reconstruct 5 existing pedestrian ramps.
Widen existing sidewalk	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	744	744	\$ 2,976.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	5	5	\$ 10,913.75	
	1001 A	REMOVE STREET LIGHT POLE AND ASSEMBLY	Each	\$ 585.00	4	4	\$ 2,340.00	
	1002 A	REMOVE STREET LIGHT FOUNDATION	Each	\$ 296.00	4	4	\$ 1,184.00	
	682	STREET LIGHT FOUNDATION	Each	\$ 957.00	4	4	\$ 3,828.00	
		RECONSTRUCT DRIVEWAY (COMMERCIAL)	Each	\$ 8,444.44	2	2	\$ 16,888.88	
		<i>Contingency</i>					25%	
	<b>Subtotal</b>						\$ 60,700.00	
3B-FJ-ST-03	355	4" THICK REINF CONC WALK (converted from Sq. Ft. to Sq. Yd.)	Sq. Yd.	\$ 63.00	136.67	137	\$ 8,631.00	Build new 205' sidewalk with 6' width. Relocate 2 signs and 2 light poles. Construct 7 pedestrian ramps. Remove 5 bushes (assume each as 0.5 tree). Adjust one electrical box and a manhole, and relocate a utility box.
Build new sidewalk	1001 A	REMOVE STREET LIGHT POLE AND ASSEMBLY	Each	\$ 585.00	2	2	\$ 1,170.00	
	1002 A	REMOVE STREET LIGHT FOUNDATION	Each	\$ 296.00	2	2	\$ 592.00	
	682	STREET LIGHT FOUNDATION	Each	\$ 957.00	2	2	\$ 1,914.00	
	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	7	7	\$ 15,279.25	
	20360	MANHOLE ADJUSTMENT	Each	\$ 572.00	1	1	\$ 572.00	
	624	REMOVE AND RESET STREET LIGHT PULL BOX	Each	\$ 1,100.00	1	1	\$ 1,100.00	
	639	REMOVE TREE	Each	\$ 886.00	5	5	\$ 4,430.00	
	20300	UTILITY BOX RELOCATION	Each	\$ 729.33	1	1	\$ 729.33	
		RECONSTRUCT DRIVEWAY (COMMERCIAL)	Each	\$ 8,444.44	1	1	\$ 8,444.44	
		RETAINING WALL (2')	LF	\$ 40.00	95	95	\$ 3,800.00	
		RETAINING WALL (3')	LF	\$ 75.00	95	95	\$ 7,125.00	
	<i>Contingency</i>					25%	\$ 13,558.26	
	<b>Subtotal</b>						\$ 67,800.00	
3B-FJ-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 signs
3B-FJ-ST-05		<i>Contingency</i>				25%	\$ 325.00	
Update signs	<b>Subtotal</b>						\$ 1,700.00	
3B-FJ-ST-06	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	Relocate 2 signs
Relocate signs		<i>Contingency</i>				25%	\$ 111.50	
	<b>Subtotal</b>						\$ 600.00	
3B-FJ-ST-07	728	REMOVE AND RESET SIGN	Each	\$ 223.00	12	12	\$ 2,676.00	Relocate 12 ADA parking spaces to the west closer to platform; add one ADA ramp for ea. 2 HC spaces
Relocate ADA parking closer to platform	618	BARRIER FREE RAMP	Each	\$ 2,182.75	6	6	\$ 13,096.50	
	XXX	STRIPE HANDICAP PARKING SPACES	Each	\$ 52.50	12	12	\$ 630.00	
	XXX	STRIPE REGULAR PARKING SPACES	Each	\$ 7.50	14	14	\$ 105.00	
	XXX	WHITE PAINT FOR HANDICAP SPACE CROSS HATCHING	LF	\$ 0.60	216	216	\$ 129.60	
		<i>Contingency</i>					25%	
	<b>Subtotal</b>						\$ 20,800.00	

**DART Last Mile Connections Project - Forest Jupiter Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
3B-FJ-ST-08	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	48	48	\$ 432.00	12" line on either side of 24' crosswalks	
Add bus loop crosswalks		Contingency				25%	\$ 108.00		
	<b>Subtotal</b>						\$ 600.00		
3B-FJ-ST-09	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	Build 2 new ramps for the existing crosswalk	
Build new pedestrian ramps		Contingency				25%	\$ 1,091.38		
	<b>Subtotal</b>						\$ 5,500.00		
3B-FJ-ST-10 3B-FJ-ST-11	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 Pedestrian Signs	
Pedestrian Signs		Contingency				25%	\$ 325.00		
	<b>Subtotal</b>						\$ 1,700.00		
3B-FJ-ST-12	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 Speed Limit Sign	
Speed Limit Sign		Contingency				25%	\$ 162.50		
	<b>Subtotal</b>						\$ 900.00		
3B-FJ-ST-13	355	4" THICK REINF CONC WALK (converted from Sq. Ft. to Sq. Yd.)	Sq. Yd.	\$ 63.00	236.67	237	\$ 14,931.00	Build new 355' sidewalk with 6' width	
Build new sidewalk		MANHOLE ADJUSTMENT	Each	\$ 572.00	1	1	\$ 572.00		
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50		
		Contingency				25%	\$ 4,967.13		
		<b>Subtotal</b>					\$ 24,900.00		
3B-FJ-ST-14		Shared use path extension from platform to the west							
		Part of separate project. See half-mile area improvement 3B-FJ-SP-38 for more details and cost information. Cost assumed attributable to City of Garland.							
<b>Grand Total</b>							<b>\$ 188,400.00</b>		

Contingency Items:	Contingency	Contingency Items:	Contingency	
Design Fee	10%	Erosion & Sediment Control Allowance	2%	25% Total Contingency
Mobilization	4%	Traffic Control Allowance	3%	
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

# LBJ Central Station

**Opinion of Probable Constr. Cost = \$36,200**

**Improvement Code Legend**

ID: 3C-LC-ST-01

3C ← Station Number      ST ← Station Improvement

LC ← Station Abbreviation

01 ← Improvement Number (matches on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
3C-LC-ST-01	DART	Build sidewalk with relocated ramp	Add sidewalk and crosswalk to connect the existing station sidewalk to the LBJ Station Apartments. The current sidewalk ramp at the end of the sidewalk from the apartments that ends at the parking lot should be relocated to avoid a diagonal crosswalk across the parking lot aisle. Two to three parking spaces would be removed, but parking demand for this station appears to be well below capacity.	\$ 18,800
3C-LC-ST-02 3C-LC-ST-03	DART	Update Speed Limit Signs	Update speed limit signs to meet MUTCD standards.	\$ 1,700
3C-LC-ST-04 3C-LC-ST-05	DART	Build new ramps	Build ADA ramps for crosswalks.	\$ 11,000
3C-LC-ST-06	DART	Add new crosswalk	Add marked pedestrian crosswalk	\$ 1,400
3C-LC-ST-07	DART	Do Not Enter and Pedestrian Signs	At the bus loop entrance, update pedestrian warning signs to meet MUTCD standards. The existing signs have the wrong shape panel and do not have supplemental arrow plaques as required. Replace "DO NOT ENTER" signs with new signs including all capital letters to meet MUTCD standards.	\$ 3,300
<b>Opinion of Probable Cost - DART Subtotal.....</b>				\$ 36,200
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				\$ 36,200



**DART Last Mile Connections Project - LBJ Central Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
3C-LC-ST-01	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	Relocate 1 existing ramp, Build new 175' sidewalk with 5' width, assume 6' wide crosswalk 24' long, diagonal 9' hatches at 6' spacing, remove existing concrete pavement 1' deep to build sidewalk bump-out for new ramp.
Build sidewalk with relocated ramp	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	97.22	98	\$ 6,174.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	84	84	\$ 756.00	
	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	210	210	\$ 840.00	
	407	CURB & GUTTER	Lin. Ft.	\$ 39.72	62	62	\$ 2,462.64	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
	201	REMOVE CONC PAVE DRIVE AND APRON	Sq. Yd.	\$ 71.00	17.96	18	\$ 1,278.00	
			Contingency				25%	
		<b>Subtotal</b>					<b>\$ 18,800.00</b>	
3C-LC-ST-02 3C-LC-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 speed limit signs needs to be updated
Update Speed Limit Signs		Contingency				25%	\$ 325.00	
		<b>Subtotal</b>					<b>\$ 1,700.00</b>	
3C-LC-ST-04 3C-LC-ST-05	618	BARRIER FREE RAMP	Each	\$ 2,182.75	4	4	\$ 8,731.00	Build 4 new ramps for the existing crosswalk
Build new ramps		Contingency				25%	\$ 2,182.75	
		<b>Subtotal</b>					<b>\$ 11,000.00</b>	
3C-LC-ST-06	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	122.5	123	\$ 1,107.00	Assume 6' wide crosswalk 35' long with 9' diagonal hatches at 6' spacing
Add new crosswalk		Contingency				25%	\$ 276.75	
		<b>Subtotal</b>					<b>\$ 1,400.00</b>	
3C-LC-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	2 DO NOT ENTER signs and 2 Pedestrian Signs
Do Not Enter and Pedestrian Signs		Contingency				25%	\$ 650.00	
		<b>Subtotal</b>					<b>\$ 3,300.00</b>	
<b>Grand Total</b>							<b>\$ 36,200.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency



## Forest Lane Station


**Opinion of Probable Constr. Cost = \$15,400**

**Improvement Code Legend**

ID: 3D-FL-ST-01

3D ← Station Number      ST ← Station Improvement

FL ← Station Abbreviation

01 ← Improvement Number (matches  on Map)



**Opinion of Probable Cost**

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
3D-FL-ST-01	DART	Lane Striping	Stripe a single lane for northbound traffic exiting the park & ride lot. This would allow space for two southbound lanes entering the lot. The reason is that the radius on the southwest corner of the intersection of Forest Lane and the station entrance is too tight. Buses turning right from eastbound Forest Lane were observed encroaching into the pedestrian space on the intersection corner. A high mast overhead electric pole and existing storm drain inlet constrain the radius from being enlarged.	\$ 3,200
3D-FL-ST-02 3D-FL-ST-03	DART	Update signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs are fading, not retro-reflective, have the wrong shape panel, and do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 1,700
3D-FL-ST-04 3D-FL-ST-05	DART	Crosswalk Striping	Add crosswalk markings and move the existing STOP bar back behind the pedestrian path of travel.	\$ 3,300
3D-FL-ST-06 3D-FL-ST-07 3D-FL-ST-08	DART	Speed Limit Signs	Update the speed limit signs to meet MUTCD standards.	\$ 2,500
3D-FL-ST-09 3D-FL-ST-10	DART	Relocate stone pillar seats	Increase the space between the stone pillar seats at the top of the ADA ramps to the station platform or move them farther back from the ramp so that wheelchair users can pass. Four or preferably five foot clearances are recommended.	\$ 1,500
3D-FL-ST-11	DART	Relocate Bike Parking	Move covered bike parking to a more convenient location for cyclists close to the platform. The open space near the stairs within the security camera monitoring area is recommended (near Locations 9 and 10). This will be more convenient for cyclists riding from Forest Lane.	\$ 1,500
3D-FL-ST-12 3D-FL-ST-13	DART	Do Not Enter Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 15,400</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 15,400</b>


**DART Last Mile Connections Project - Forest Lane Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
3D-FL-ST-01	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	150	150	\$ 300.00	Remove and restripe left-turn arrow striping for northbound traffic exiting the park & ride lot. Remove and restripe the double lines in yellow. Update sign.
Lane Striping	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	
	677 6008	ELIM EXT PAV MRK & MRKS (ARROW)	Each	\$ 65.00	2	2	\$ 130.00	
	666 6054	REFL PAV MRK TY I (W)(ARROW)(100MIL)	Each	\$ 125.00	1	1	\$ 125.00	
		Contingency				25%	\$ 638.75	
	<b>Subtotal</b>					\$ 3,200.00		
3D-FL-ST-02 3D-FL-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 Pedestrian Signs
Update signs		Contingency				25%	\$ 325.00	
		<b>Subtotal</b>					\$ 1,700.00	
3D-FL-ST-04 3D-FL-ST-05	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	247.5	248	\$ 2,232.00	Assume 5' wide crosswalk 30'+25' long
Crosswalk Striping	724	18 IN THERMO STOP LINE MARKER	Lin. Ft.	\$ 8.00	30	30	\$ 240.00	
	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	50	50	\$ 100.00	
		Contingency				25%	\$ 643.00	
		<b>Subtotal</b>					\$ 3,300.00	
3D-FL-ST-06 3D-FL-ST-07 3D-FL-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	3	3	\$ 1,950.00	Update 2 Speed Limit Signs
Speed Limit Signs		Contingency				25%	\$ 487.50	
		<b>Subtotal</b>					\$ 2,500.00	
3D-FL-ST-09 3D-FL-ST-10	XXX	Remove and reset stone pillar seats	Each	\$ 300.00	4	4	\$ 1,200.00	Relocate 4 stone pillar seats; Assuming \$300 labor fee/unit
Relocate stone pillar seats		Contingency				25%	\$ 300.00	
		<b>Subtotal</b>					\$ 1,500.00	
3D-FL-ST-11	XXX	Relocate BikeLid	Each	\$ 300.00	4	4	\$ 1,200.00	Relocate 4 Bike Lids. Assuming \$300 labor fee/unit
Relocate Bike Parking		Contingency				25%	\$ 300.00	
		<b>Subtotal</b>					\$ 1,500.00	
3D-FL-ST-12 3D-FL-ST-13	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER Signs
Do Not Enter Signs		Contingency				25%	\$ 325.00	
		<b>Subtotal</b>					\$ 1,700.00	
<b>Grand Total</b>							<b>\$ 15,400.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			<b>25%</b>
			<b>Total Contingency</b>

# Walnut Hill Station

**Opinion of Probable Constr. Cost = \$214,800**

**Improvement Code Legend**  
**ID: 4A-WH-ST-01**  
 4A ← Station Number      ST ← Station Improvement  
 WH ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4A-WH-ST-01	DART	Add landscaping	Add landscaping to close "goat trail" and discourage people from crossing mid-block across Glen Lakes Drive between the parking lot and the stairs/elevator to the train platform.	\$ 3,900
4A-WH-ST-02	DART	Restripe Crosswalk Markings	Restripe faded crosswalk across Glen Lakes Drive at Manderville Lane.	\$ 2,300
4A-WH-ST-03	DART	Add new Crosswalk Markings	Stripe crosswalk across bus loop under the bridge.	\$ 600
4A-WH-ST-04 4A-WH-ST-05	DART	Update DO NOT ENTER Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4A-WH-ST-06 4A-WH-ST-07 4A-WH-ST-08 4A-WH-ST-09	DART	Remove fence, add sidewalk	Remove fence posts along Walnut Hill Lane sidewalk to provide more direct sidewalk connections between the Walnut Hill Lane sidewalk and the stairs & elevators to the train platform. Worn paths in some of the landscaping and one rider jumping the fence posts indicate existing demand for a more convenient movement.	\$ 9,000
4A-WH-ST-11	DART	Install new BikeLids	Add covered bike parking on south side of Walnut Hill Lane near station stairs so riders do not need to cross to north side to park.	\$ 10,800
4A-WH-ST-12	DART	Add sidewalk	Build sidewalk to replace the existing "goat trail" and provide a better connection between the DART station and a large adjacent office building. Riders were observed walking in the worn path in the grass at this location.	\$ 2,000
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 30,300</b>
4A-WH-ST-10	City of Dallas	Add median fencing	Install median fence along Walnut Hill Lane in conjunction with the improvements at Locations 6-9 to continue to discourage pedestrians from crossing Walnut Hill Lane mid-block near the rail bridge.	\$ 184,500
<b>Opinion of Probable Cost - City of Dallas Subtotal.....</b>				<b>\$ 184,500</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 214,800</b>


**DART Last Mile Connections Project - Walnut Hill Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4A-WH-ST-01	DART BID ITEM	Plant Material (5 Gal Shrub)	SF	\$ 15.00	200	200	\$ 3,000.00	Add approx. 200 SF of 5 gallon shrub and mulch.
Add landscaping	DART BID ITEM	Mulch	SY	\$ 5.00	22.2	22	\$ 110.00	
		Contingency				25%	\$ 777.50	
	<b>Subtotal</b>						\$ 3,900.00	
4A-WH-ST-02	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	192.5	200	\$ 1,800.00	Assume 5' wide crosswalk 55' long
Restripe Crosswalk Markings		Contingency				25%	\$ 450.00	
	<b>Subtotal</b>						\$ 2,300.00	
4A-WH-ST-03	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	50	50	\$ 450.00	Assume 5' wide crosswalk 25' long (outside lines only)
Add new Crosswalk Markings		Contingency				25%	\$ 112.50	
	<b>Subtotal</b>						\$ 600.00	
4A-WH-ST-04 4A-WH-ST-05	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER Signs
Update DO NOT ENTER Signs		Contingency				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
4A-WH-ST-06 4A-WH-ST-07 4A-WH-ST-08 4A-WH-ST-09	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	40	40	\$ 240.00	Assume 10' fence will be removed for each location from 6-9; assume ~200 LF of 5' wide sidewalk for connections
Remove fence, add sidewalk	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	108.3	110	\$ 6,930.00	
		Contingency				25%	\$ 1,792.50	
	<b>Subtotal</b>						\$ 9,000.00	
4A-WH-ST-10	XXXX	Architectural quality anti-climb 6' metal fence	Lin. Ft.	\$ 130.00	470	470	\$ 61,100.00	470' fence along Walnut Hill Lane
Add median fencing	545 6006	CRASH CUSH ATTEN (INSTL)(L)(N)(TL2)	EA	\$ 8,000.00	2	2	\$ 16,000.00	
	514 6038	PERM CTB (SSCB)(TY 1)(MOD)	LF	\$ 150.00	470	470	\$ 70,500.00	
		Contingency				25%	\$ 36,900.00	
	<b>Subtotal</b>						\$ 184,500.00	
4A-WH-ST-11	XXX	BikeLid covered bike parking	Each	\$ 2,145.00	4	4	\$ 8,580.00	Add 4 bike parkings
Install new BikeLids		Contingency				25%	\$ 2,145.00	
	<b>Subtotal</b>						\$ 10,800.00	
4A-WH-ST-12	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	25	25	\$ 1,575.00	Assume 5' wide sidewalk 45' long
Add sidewalk		Contingency				25%	\$ 393.75	
	<b>Subtotal</b>						\$ 2,000.00	
<b>Grand Total</b>							<b>\$ 214,800.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			<b>25% Total Contingency</b>

### Park Lane Station

**Opinion of Probable Constr. Cost = \$290,300**

**Improvement Code Legend**  
**ID: 4B-PL-ST-01**  
 4B ← Station Number      ST ← Station Improvement  
 ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



**Opinion of Probable Cost**

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4B-PL-ST-01	DART	New connection from platform to shopping center to the west	Create a pedestrian connection to the Caruth Plaza shopping center west of the station. Add a break in the existing station platform fencing and a crosswalk with signing across the parking lot to the sidewalk fronting the stores. Breaks in the bushes next to the fencing indicate existing demand.	\$ 14,300
4B-PL-ST-02	DART	DO NOT ENTER Sign	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 900
4B-PL-ST-03	DART	Double Yellow Centerline Markings	Replace dashed white pavement marking on driveway at east side of DART property with double yellow line. Dashed white lines incorrectly imply one-way traffic flow (contrary to existing signs directing drivers to enter here) that could result in hazardous conditions for both drivers and pedestrians.	\$ 1,500
4B-PL-ST-04 4B-PL-ST-05	DART	Pedestrian Signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards. Also, the sign at Location 3 (right-hand sign as facing southbound bus loop traffic) should be relocated closer to the crosswalk.	\$ 1,700
4B-PL-ST-06	DART	Speed Limit Sign	Update Speed Limit sign to meet MUTCD standards.	\$ 900
4B-PL-ST-07	DART	ONE WAY Sign	Update "ONE WAY" sign to meet MUTCD standards.	\$ 900
4B-PL-ST-08	DART	DO NOT ENTER Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4B-PL-ST-09	DART	Speed Limit Sign	Update Speed Limit sign to meet MUTCD standards.	\$ 900
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 22,800</b>
4B-PL-ST-10	City of Dallas	Add pushbuttons, advance yield lines, signing & PHB for Park Lane crosswalks. Add crosswalk across Park Lane.	Consider, as a long-term solution, constructing a pedestrian bridge over Park Lane from the elevated station platform for increased safety and convenience of riders traveling to and from the south.  A large apartment building is located closer to the station on the south side of Park Lane. Pedestrians were observed crossing Park Lane mid-block under the bridge at this location, which is about 300 feet from the signalized crosswalk at Greenville Avenue to the east and 500 feet from the signalized crosswalk at the Caruth Plaza shopping center entrance to the west.  As an interim measure, install a crosswalk and pedestrian hybrid beacon on Park Lane near the rail crossing and coordinate with the adjacent signals for a two-stage pedestrian crossing. A taper transitioning the number of westbound lanes from three to two exists at this location. The third lane could instead be dropped at the right turn entrance to the DART parking lot to create more space for a median pedestrian refuge. (Cost estimate provided for interim crosswalk/pedestrian hybrid beacon option).	\$ 267,500
<b>Opinion of Probable Cost - City of Dallas Subtotal.....</b>				<b>\$ 267,500</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 290,300</b>

**DART Last Mile Connections Project - Park Lane Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4B-PL-ST-01	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	220	220	\$ 1,980.00	Assume 5' wide crosswalk 110' long. Add 5' x 5' sidewalk. Remove 10' fence. 2 pedestrian signs & 2 track crossing warning signs.
New connection from platform to shopping center to the west	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	
	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	
	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	2.78	3	\$ 189.00	
	XXX	Sidewalk Track Crossing	Each	\$ 1,000.00	1	1	\$ 1,000.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	639	TREE REMOVAL (bushes)	Each	\$ 886.00	1	1	\$ 886.00	
	458A	PARKING STOP	Each	\$ 97.00	3	3	\$ 291.00	
		Contingency				25%	\$ 2,842.88	
		<b>Subtotal</b>					\$ 14,300.00	
4B-PL-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 DO NOT ENTER Sign
DO NOT ENTER Sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	
4B-PL-ST-03	722 C	4" THERMOPLASTIC LANE MARKER ( SOLID YELLOW)	Lin. Ft.	\$ 1.00	1130	1130	\$ 1,130.00	Assume 565' of two 4" yellow markings
Double Yellow Centerline Markings		Contingency				25%	\$ 282.50	
		<b>Subtotal</b>					\$ 1,500.00	
4B-PL-ST-04 4B-PL-ST-05	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 Pedestrian Signs
Pedestrian Signs		Contingency				25%	\$ 325.00	
		<b>Subtotal</b>					\$ 1,700.00	
4B-PL-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 Speed Limit Sig
Speed Limit Sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	
4B-PL-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 ONE WAY Sign
ONE WAY Sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	
4B-PL-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER Signs
DO NOT ENTER Signs		Contingency				25%	\$ 325.00	
		<b>Subtotal</b>					\$ 1,700.00	
4B-PL-ST-09	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 Speed Limit Sign
Speed Limit Sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	

**DART Last Mile Connections Project - Park Lane Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4B-PL-ST-10	666	REFL PAV MRK TY I (W) 36" (YLD TRI) (100 MIL)	Each	\$ 40.00	20	20	\$ 800.00	Assume conduit, poles, power source do not need to be updated; 4 yield triangle pavement markings per 12' width; six 12' lanes on Park Lane. Assume 6' wide crosswalk 80' long, 50% covered with thermo.
	666	REF PAV MRK TY II (W) 36" (YLD TRI)	Each	\$ 20.00	20	20	\$ 400.00	
Add pushbuttons, advance yield lines, signing & PHB for Park Lane crosswalks. Add crosswalk across Park Lane.	680	INSTALL HWY TRAF SIG (ISOLATED)	Each	\$ 200,000.00	1	1	\$ 200,000.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	400	400	\$ 3,600.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	3	3	\$ 6,548.25	
		<i>Contingency</i>				25%	\$ 53,487.06	
		<b>Subtotal</b>					\$ 267,500.00	
<b>Grand Total</b>							<b>\$ 290,300.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency



## Lovers Lane Station


Opinion of Probable Constr. Cost = \$95,400

### Improvement Code Legend

ID: 4C-LL-ST-01

4C ← Station Number      ST ← Station Improvement

LL ← Station Abbreviation

01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4C-LL-ST-01	DART	Build new sidewalk and ramps. Add pedestrian lighting and cameras.	Add sidewalk under U.S. 75 bridge at Lovers Lane intersection. A worn path in the grass shows existing demand here.	\$ 48,200
4C-LL-ST-03	DART	Relocate Bus Shelter	The bus shelter location and/or the curb line need to be adjusted to provide a minimum sidewalk width of 4 feet for a wheelchair to be able to pass. Only 2.5 feet of sidewalk width is existing.	\$ 9,000
4C-LL-ST-05 4C-LL-ST-06	DART	Add bushes	Add landscaping adjacent to existing fences to discourage motorists from dropping off passengers from the U.S. 75 frontage road. Bent fences show evidence of this behavior.	\$ 25,300
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 82,500</b>
4C-LL-ST-02	Private Property	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4C-LL-ST-04	Private Property	Build new sidewalk and ramps	Build new sidewalk to connect the existing sidewalk to the DART station platform.	\$ 11,200
<b>Opinion of Probable Cost - Private Property Subtotal.....</b>				<b>\$ 12,900</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 95,400</b>

**DART Last Mile Connections Project - Lovers Lane Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
4C-LL-ST-01	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	41.7	42	\$ 2,646.00	Build new 75' sidewalk with 5' width, and 2 new ramps. For lighting assumed 2 poles	
Build new sidewalk and ramps. Add pedestrian lighting and cameras.	680 A	2"PVC STREET LIGHT CONDUIT - BORE	Lin. Ft.	\$ 18.00	75	75	\$ 1,350.00		
	687	PEDESTRIAN LIGHT FOUNDATION	Each	\$ 1,208.00	2	2	\$ 2,416.00		
	688	STREET LIGHT PULL BOXES	Each	\$ 860.00	2	2	\$ 1,720.00		
	691	PROCURE AND INSTALL PEDESTRIAN LIGHT POLE	Each	\$ 2,158.00	2	2	\$ 4,316.00		
	692	PROCURE AND INSTALL PEDESTRIAN LIGHT FIXTURES	Each	\$ 1,382.00	2	2	\$ 2,764.00		
	841	#6 STREET LIGHT WIRE	Lin. Ft.	\$ 3.00	165	165	\$ 495.00		
	842	ELECTRICAL METER AND BASE	Lump Sum	\$ 12,797.00	1	1	\$ 12,797.00		
	XXX	CAMERA	Each	\$ 10,000.00	1.0	1	\$ 10,000.00		
		<i>Contingency</i>					25%		\$ 9,626.00
	<b>Subtotal</b>						\$ 48,200.00		
4C-LL-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 signs Private Property	
Update signs		<i>Contingency</i>				25%	\$ 325.00		
	<b>Subtotal</b>						\$ 1,700.00		
4C-LL-ST-03	728	REMOVE AND RESET SIGN	Each	\$ 223.00	8	8	\$ 1,784.00	Relocate Bus Shelter - assume equivalent to relocating 8 signs - one for each leg of shelter. Relocate light pole in way of new shelter location.	
Relocate Bus Shelter	1001 A	REMOVE STREET LIGHT POLE AND ASSEMBLY	Each	\$ 585.00	1	1	\$ 1,784.00		
	1002 A	REMOVE STREET LIGHT FOUNDATION	Each	\$ 296.00	1	1	\$ 1,784.00		
	682	STREET LIGHT FOUNDATION	Each	\$ 957.00	1	1	\$ 1,784.00		
		<i>Contingency</i>					25%		\$ 1,784.00
	<b>Subtotal</b>						\$ 9,000.00		
4C-LL-ST-04	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	19.4	19.4	\$ 1,225.00	Build new 35' sidewalk with 5' width, and 2 new ramps	
Build new sidewalk and ramps	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50		
	203	REMOVE SIDEWALK	LF	\$ 20.00	15	15	\$ 300.00		
	7530	CURB & GUTTER	LF	\$ 39.72	20	20	\$ 794.40		
	20360	MANHOLE ADJUSTMENT	Each	\$ 572.00	1	1	\$ 572.00		
	723 A	12" THERMOPLASTIC LANE MARKER	LF	\$ 9.00	105	105	\$ 945.00		
	XXX	UTILITY BOX RELOCATION	Each	\$ 729.33	1	1	\$ 729.33		
		<i>Contingency</i>					25%		\$ 2,232.81
	<b>Subtotal</b>						\$ 11,200.00		
4C-LL-ST-05 4C-LL-ST-06	DART BID ITEM	Plant Material (5 Gal Shrub)	SF	\$ 15.00	1300	1300	\$ 19,500.00	Add 1,300 SF of shrubs	
Add bushes		Mulch	SY	\$ 5.00	144.4	145	\$ 725.00		
		<i>Contingency</i>					25%		\$ 5,056.25
		<b>Subtotal</b>							\$ 25,300.00
<b>Grand Total</b>							<b>\$ 95,400.00</b>		


Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

# Mockingbird Station

Opinion of Probable Constr. Cost = \$109,500

### Improvement Code Legend

ID: 4D-MB-ST-01

4D ← Station Number      ST ← Station Improvement  
 MB ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)




Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4D-MB-ST-01	City of Dallas	New & Relocated Signs	Move "Yield To Pedestrian Sign" to the yield line. Add pedestrian crossing warning signs at crosswalk.	\$ 2,000
4D-MB-ST-02	City of Dallas	New sign post	Mount "Bike Route" sign plaque and "STOP Sign" plaque on separate posts as per MUTCD.	\$ 500
<b>Opinion of Probable Cost - City of Dallas Subtotal.....</b>				<b>\$ 2,500</b>
4D-MB-ST-03	DART	New bus stop pad	Build sidewalk pad at bus stop.	\$ 600
4D-MB-ST-04	DART	New signs	Add pedestrian signs at crosswalk.	\$ 1,700
4D-MB-ST-06	DART	Add diagonal arrow panel to ex. sign	Add a diagonal downward pointing arrow (W16-7P) plaque mounted to the existing pedestrian sign posts.	\$ 500
4D-MB-ST-07	DART	Add diagonal arrow panel to ex. sign	Add a diagonal downward pointing arrow (W16-7P) plaque mounted to the existing pedestrian sign posts.	\$ 500
4D-MB-ST-08	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards. Mount left-hand pedestrian warning sign on a separate post and provide a new pedestrian warning sign on the right-hand side.	\$ 1,700
4D-MB-ST-09	DART	Update signs	Add diagonal downward arrow (W16-7P) supplemental plaques below the pedestrian crossing warning signs.	\$ 1,700
4D-MB-ST-10	DART	Remove sign	Remove non-standard "ONE WAY" sign that is not necessary.	\$ 300
4D-MB-ST-11	DART	Relocate sign	Relocate pedestrian crossing sign #11 closer to crosswalk. Add diagonal downward arrow (W16-7P) supplemental plaques below the pedestrian crossing warning signs.	\$ 700
4D-MB-ST-12	DART	Add diagonal arrow panel to ex. sign		\$ 900
4D-MB-ST-13	DART	Replace sign	Update pedestrian crossing sign to meet MUTCD standards. Add diagonal downward arrow (W16-7P) supplemental plaque below the pedestrian crossing warning sign.	\$ 1,700
4D-MB-ST-14	DART	Signing changes	The current STOP sign facing eastbound traffic is not visible for a sufficient distance around the horizontal curve. Add "Stop Ahead" (W3-1) sign ahead of "STOP" sign and the preceding curve. Remove pedestrian sign at crosswalk facing eastbound approach since it competes for attention with more important stop sign message. Add "ALL-WAY" (R1-3P) plaques below existing STOP signs. Add a new STOP sign with R1-3P plaque facing the northbound apartment driveway approach to this intersection.	\$ 2,400
4D-MB-ST-15	DART	Add diagonal arrow panel to ex. Sign; repair detection	Add diagonal downward pointing arrow (W16-7P) supplemental plaques below the pedestrian crossing warning signs. Repair the southbound LED lights in sign border (currently not functioning), repair pedestrian detection, and/or trim trees for more solar power.	\$ 4,500
4D-MB-ST-16	DART	Add diagonal arrow panel to ex. sign		\$ 900
4D-MB-ST-17	DART	New warning signs	Add pedestrian crossing warning signs at crosswalk.	\$ 1,700
4D-MB-ST-18	DART	Reconstruct ADA ramps	Reconstruct pedestrian ramps to have shallower slope compliant with ADA. The existing ramps are too steep for use by manual wheelchair users. ADA parking southwest of this driveway may be under-utilized as a result of inadequate ramps.	\$ 6,600

# Mockingbird Station

**Opinion of Probable Constr. Cost = \$109,500**

**Improvement Code Legend**

ID: 4D-MB-ST-01

4D ← Station Number      ST ← Station Improvement  
 MB ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4D-MB-ST-19	DART	Concrete parking stops	Trim hedges and add parking bumpers to provide a minimum 4 feet width for wheelchairs. Only 3.5 feet width existing.	\$ 1,700
4D-MB-ST-20	DART	Install crosswalk signs & markings	Add marked crosswalk with pedestrian warning signs and detectable warning surfaces for pedestrian ramps.	\$ 7,100
4D-MB-ST-21	DART	Relocate ADA ramp	Relocate ramp to connect to existing crosswalk.	\$ 7,900
4D-MB-ST-22	DART	Pedestrian Lighting	Add pedestrian lighting for area where tree cover makes for dark nighttime conditions.	\$ 36,200
4D-MB-ST-23	DART	Update Do Not Enter sign	Update "DO NOT ENTER" signs to meet MUTCD standards. Remove "Except Buses" plaque.	\$ 900
4D-MB-ST-24	DART	Add Do Not Enter sign	Add "DO NOT ENTER" sign.	\$ 900
4D-MB-ST-25	DART	Update Stop sign	Enlarge the size of "STOP" sign to obscure the shape of signs mounted on the other side.	\$ 900
4D-MB-ST-26	DART	Fix trip hazard	Fix trip hazard.	\$ 1,300
4D-MB-ST-27	DART	Update Do Not Enter sign	Replace faded "DO NOT ENTER" sign.	\$ 900
4D-MB-ST-28	DART	Build sidewalk connection	Build sidewalk at the existing worn path in grass.	\$ 1,000
4D-MB-ST-29	DART	Fix trip hazard	Fix trip hazard where sidewalk has settled around storm drain inlet.	\$ 4,100
4D-MB-ST-30	DART	Add detectable warning surfaces to ADA ramps	Add detectable warning surfaces to pedestrian ramps where missing. The location shown is one example. Several others exist throughout the station area.	\$ -
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 89,300</b>
4D-MB-ST-05	DART/ Private Property	Add bike parking near trail & stairs to station	Add a new bike parking area near the trail at the bottom of the stairs.	\$ 17,700
<b>Opinion of Probable Cost - DART/Private Property Subtotal.....</b>				<b>\$ 17,700</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 109,500</b>

**DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-01	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Move 1 sign and add 2 new signs
New & Relocated Signs	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	
		Contingency				25%	\$ 380.75	
	<b>Subtotal</b>						\$ 2,000.00	
4D-MB-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	Sign post only at 1/2 cost of new sign
New sign post		Contingency				25%	\$ 81.25	
	<b>Subtotal</b>						\$ 500.00	
4D-MB-ST-03	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	6.67	7	\$ 441.00	Assume 60 SF of sidewalk for bus stop pad.
New bus stop pad		Contingency				25%	\$ 110.25	
	<b>Subtotal</b>						\$ 600.00	
4D-MB-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Add 2 signs
New signs		Contingency				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
4D-MB-ST-05	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	20	20	\$ 1,260.00	Assume 9' x 20' pad for 6 BikeLids
Add bike parking near trail & stairs to station	XXX	BikeLid covered bike parking	Each	\$ 2,145.00	6	6	\$ 12,870.00	
		Contingency				25%	\$ 3,532.50	
	<b>Subtotal</b>						\$ 17,700.00	
4D-MB-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	Sign panel only at 1/2 cost of new sign
Add diagonal arrow panel to ex. sign		Contingency				25%	\$ 81.25	
	<b>Subtotal</b>						\$ 500.00	
4D-MB-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	Sign panel only at 1/2 cost of new sign
Add diagonal arrow panel to ex. sign		Contingency				25%	\$ 81.25	
	<b>Subtotal</b>						\$ 500.00	
4D-MB-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 signs
Update signs		Contingency				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
4D-MB-ST-09	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 1 sign
Update signs		Contingency				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
4D-MB-ST-10	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Assume remove sign equivalent ot remove and reset.
Remove sign		Contingency				25%	\$ 55.75	
	<b>Subtotal</b>						\$ 300.00	
4D-MB-ST-11	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Relocate sign & add arrow panel (equivalent to 1/2 sign)
Relocate sign	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	
		Contingency				25%	\$ 137.00	
	<b>Subtotal</b>						\$ 700.00	
4D-MB-ST-12	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Sign panel only at 1/2 cost of new sign
Add diagonal arrow panel to ex. sign		Contingency				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	

**DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-13	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 1 sign
Replace sign		<i>Contingency</i>				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
4D-MB-ST-14	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Remove 1 sign, install 1 stop sign, add 3 small panels (assume equiv. to 1/2 sign each)
Signing changes	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2.5	2.5	\$ 1,625.00	
		<i>Contingency</i>				25%	\$ 462.00	
	<b>Subtotal</b>						\$ 2,400.00	
4D-MB-ST-15	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Sign panel only at 1/2 cost of new sign (double-sided). Detection based on 4/3 quote from vendor for sensor and system controller, assumed 4 hrs labor at \$150 to install
Add diagonal arrow panel to ex. Sign; repair detection	XXX	Repair pedestrian detection	Each	\$ 2,950.00	1	1	\$ 2,950.00	
		<i>Contingency</i>				25%	\$ 900.00	
	<b>Subtotal</b>						\$ 4,500.00	
4D-MB-ST-16	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Sign panel only at 1/2 cost of new sign (double-sided)
Add diagonal arrow panel to ex. sign		<i>Contingency</i>				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	
4D-MB-ST-17	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
New warning signs		<i>Contingency</i>				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
4D-MB-ST-18	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	225	225	\$ 900.00	Remove ex. sidewalk, reconstruct 2 ramps
Reconstruct ADA ramps	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
		<i>Contingency</i>				25%	\$ 1,316.38	
	<b>Subtotal</b>						\$ 6,600.00	
4D-MB-ST-19	458 A	CONC. PARKING STOPS	Each	\$ 97.00	14	14	\$ 1,358.00	Concrete parking stops, trim vegetation (assumed negligible)
Concrete parking stops		<i>Contingency</i>				25%	\$ 339.50	
	<b>Subtotal</b>						\$ 1,700.00	
4D-MB-ST-20	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	Assume new ramps may be needed instead of only updating detectable warning surfaces.
Install crosswalk signs & markings	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00		0	\$ -	
		<i>Contingency</i>				25%	\$ 1,416.38	
	<b>Subtotal</b>						\$ 7,100.00	
4D-MB-ST-21	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 6.00	140	140	\$ 840.00	Relocate ADA ramp
Relocate ADA ramp	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	
	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	15.56	16	\$ 1,008.00	
	XXX	Relocate stone pillar bollards	Each	\$ 500.00	2	2	\$ 1,000.00	
	407	6" HI RC SEPARATE CURB W/12" GUT	Lin. Ft.	\$ 32.00	40	40	\$ 1,280.00	
		<i>Contingency</i>				25%	\$ 1,577.69	
	<b>Subtotal</b>					\$ 7,900.00		



**DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-22	680 A	2" PVC STREET LIGHT CONDUIT - BORE	Lin. Ft.	\$ 18.00	200	200	\$ 3,600.00	Lighting needed for approx. 200'; assumed 60' spacing, or 3 poles (less one existing on east side of driveway)
Pedestrian Lighting	687	PEDESTRIAN LIGHT FOUNDATION	Each	\$ 1,208.00	2	2	\$ 2,416.00	
	688	STREET LIGHT PULL BOXES	Each	\$ 860.00	2	2	\$ 1,720.00	
	691	PROCURE AND INSTALL PEDESTRIAN LIGHT POLE	Each	\$ 2,158.00	2	2	\$ 4,316.00	
	692	PROCURE AND INSTALL PEDESTRIAN LIGHT FIXTURES	Each	\$ 1,382.00	2	2	\$ 2,764.00	
	841	#6 STREET LIGHT WIRE	Lin. Ft.	\$ 3.00	440	440	\$ 1,320.00	
	842	ELECTRICAL METER AND BASE	Lump Sum	\$ 12,797.00	1	1	\$ 12,797.00	
		Contingency				25%	\$ 7,233.25	
	<b>Subtotal</b>					\$ 36,200.00		
4D-MB-ST-23	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Update Do Not Enter sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	
4D-MB-ST-24	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Add Do Not Enter sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	
4D-MB-ST-25	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Update Stop sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	
4D-MB-ST-26	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 6.00	75	75	\$ 450.00	Replace three 5' x 5' panels
Fix trip hazard	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	8.33	9	\$ 567.00	
		Contingency				25%	\$ 254.25	
	<b>Subtotal</b>					\$ 1,300.00		
4D-MB-ST-27	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 sign
Update Do Not Enter sign		Contingency				25%	\$ 162.50	
		<b>Subtotal</b>					\$ 900.00	
4D-MB-ST-28	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	11.11	12	\$ 756.00	Assume 5' sidewalk 20' long.
Build sidewalk connection		Contingency				25%	\$ 189.00	
		<b>Subtotal</b>					\$ 1,000.00	
4D-MB-ST-29	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 6.00	250	250	\$ 1,500.00	Remove & replace 6 panels around storm drain inlet
Fix trip hazard	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	27.8	28	\$ 1,764.00	
		Contingency				25%	\$ 816.00	
	<b>Subtotal</b>					\$ 4,100.00		




**DART Last Mile Connections Project - Mockingbird Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4D-MB-ST-30								
Add detectable warning surfaces to ADA ramps								<i>Not Applicable</i>
<b>Grand Total</b>							<b>\$ 109,500.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
<b>25% Total Contingency</b>			

### LBJ Skillman Station

**Opinion of Probable Constr. Cost = \$40,000**

**Improvement Code Legend**  
**ID: 4E-LS-ST-01**  
 4E ← Station Number      ST ← Station Improvement  
 LS ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4E-LS-ST-01	DART	Add ADA Ramp	Build new ADA ramp.	\$ 3,500
4E-LS-ST-02 4E-LS-ST-03 4E-LS-ST-04	DART	Update Signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs are fading, have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 4,900
4E-LS-ST-05	DART	Add Ramps Add Crosswalk	Build new crosswalk and ramps to connect the DART station platform and the northern parking lot.	\$ 19,100
4E-LS-ST-06 4E-LS-ST-07	DART	Update Signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
4E-LS-ST-08	DART	Install new bike lids	Add new bike parking near the open space at the southeast corner near the train platform to accommodate bicyclist from south.	\$ 10,800
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 40,000</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 40,000</b>


**DART Last Mile Connections Project - LBJ Skillman Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4E-LS-ST-01	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	add one ADA ramp
Add ADA Ramp	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	140	140	\$ 560.00	
		<i>Contingency</i>				25%	\$ 685.69	
	<b>Subtotal</b>						\$ 3,500.00	
4E-LS-ST-02 4E-LS-ST-03 4E-LS-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	6	6	\$ 3,900.00	Update 6 Pedestrian Signs
Update Signs		<i>Contingency</i>				25%	\$ 975.00	
		<b>Subtotal</b>					\$ 4,900.00	
4E-LS-ST-05	618	BARRIER FREE RAMP	Each	\$ 2,182.75	6	6	\$ 13,096.50	Assume 6' wide crosswalk 35' long, 50% covered with thermo.
Add Ramps Add Crosswalk	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	175	175	\$ 1,575.00	
	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	140	140	\$ 560.00	
		<i>Contingency</i>				25%	\$ 3,807.88	
		<b>Subtotal</b>					\$ 19,100.00	
4E-LS-ST-06 4E-LS-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 "DO NOT ENTER" Signs
Update Signs		<i>Contingency</i>				25%	\$ 325.00	
		<b>Subtotal</b>					\$ 1,700.00	
4E-LS-ST-08	XXX	BikeLid covered bike parking	Each	\$ 2,145.00	4	4	\$ 8,580.00	Add 4 BikeLids
Install new bike lids		<i>Contingency</i>				25%	\$ 2,145.00	
		<b>Subtotal</b>					\$ 10,800.00	
<b>Grand Total</b>							<b>\$ 40,000.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

# White Rock Station

**Opinion of Probable Constr. Cost = \$59,400**

**Improvement Code Legend**  
**ID: 4F-WR-ST-01**  
 4F ← Station Number      ST ← Station Improvement  
 WR ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)

North Central Texas Council of Governments  
 DART Red & Blue Line Corridors Last Mile Connections



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
4F-WR-ST-01 4F-WR-ST-02	DART	Update signs	Update speed limit signs to meet MUTCD standards.	\$ 1,700
4F-WR-ST-03	DART	Update sign	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 900
4F-WR-ST-04	DART	Add crosswalk	Add pedestrian ramps to existing sidewalk at parking aisle intersection. Move stop bar and stop sign north behind unmarked crosswalk, then provide crosswalk markings to discourage drivers from stopping across pedestrian path.	\$ 8,800
4F-WR-ST-05 4F-WR-ST-06	DART	Update Pedestrian Ramps	Add detectable warning surfaces to the pedestrian ramps at the crosswalk connecting the parking lot and the station platform.	\$ 5,500
4F-WR-ST-07	DART	Update pedestrian ramp and crosswalk	Pedestrian ramps need to be reconstructed parallel to the crosswalk. Move the pedestrian warning sign closer to the crosswalk, and add diagonal arrow signs below it.	\$ 4,200
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 21,100</b>
4F-WR-ST-08	DART / City of Dallas	New sidewalk connection to Walling Lane	Remove the fence at the north end of the station lot and provide a pedestrian connection to Walling Circle and Walling Lane for neighborhood residents. A parking management program may be needed to prevent non-neighborhood residents from parking on the streets.	\$ 38,300
<b>Opinion of Probable Cost - DART/City of Dallas Subtotal.....</b>				<b>\$ 38,300</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 59,400</b>



**DART Last Mile Connections Project - White Rock Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4F-WR-ST-01	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 Speed Limit signs
4F-WR-ST-02		<i>Contingency</i>				25%	\$ 325.00	
Update signs	<b>Subtotal</b>						\$ 1,700.00	
4F-WR-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Update 1 DO NOT ENTER Sign
Update sign		<i>Contingency</i>				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	
4F-WR-ST-04	724	18" THERMO STOP LINE MARKER	Lin. Ft.	\$ 8.00	18	18	\$ 144.00	Assume 6' wide crosswalk 30' long, 50% covered with thermo.
Add crosswalk	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	18	18	\$ 36.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00	
	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	280	280	\$ 1,120.00	
		<i>Contingency</i>					25%	
	<b>Subtotal</b>						\$ 8,800.00	
4F-WR-ST-05	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	Add 2 detectable warning surface to pedestrian ramps. Cost should be lower than adding 2 new ramps, which is conservative estimate.
4F-WR-ST-06		<i>Contingency</i>				25%	\$ 1,091.38	
Update Pedestrian Ramps	<b>Subtotal</b>						\$ 5,500.00	
4F-WR-ST-07	203	REMOVE CONCRETE SIDEWALK	Sq. Ft.	\$ 4.00	140	140	\$ 560.00	Assume diagonal panel = 0.5 sign
Update pedestrian ramp and crosswalk	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	
	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	0.5	0.5	\$ 325.00	
		<i>Contingency</i>					25%	
	<b>Subtotal</b>						\$ 4,200.00	

**DART Last Mile Connections Project - White Rock Station Preliminary Opinion of Probable Construction Cost**


Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
4F-WR-ST-08	355	4" THICK REINF CONC WALK (converted from SF to SY)	Sq. Yd.	\$ 63.00	108.33	109	\$ 6,867.00	Assume 3' avg. height retaining wall 45' long.
New sidewalk connection to Walling Lane	XXX	Short Retaining Wall (3' avg. height)	Lin. Ft.	\$ 75.00	45	45	\$ 3,375.00	
	7530	CURB & GUTTER	Lin. Ft.	\$ 39.72	50	50	\$ 1,986.00	
	1002	RCP 18"	Lin. Ft.	\$ 58.00	10	10	\$ 580.00	
	639	TREE REMOVAL	Each	\$ 886.00	2	2	\$ 1,772.00	
	1604 A	REMOVE OR REPLACE FENCE	Lin. Ft.	\$ 53.00	20	20	\$ 1,060.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	3	3	\$ 6,548.25	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	70	70	\$ 630.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	12	12	\$ 7,800.00	
		<i>Contingency</i>					25%	
	<b>Subtotal</b>						<b>\$ 38,300.00</b>	
<b>Grand Total</b>								<b>\$ 59,400.00</b>

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

## Eighth & Corinth Station

Opinion of Probable Constr. Cost = \$59,200

**Improvement Code Legend**  
ID: 5A-EC-ST-01

5A ← Station Number      ST ← Station Improvement  
EC ← Station Abbreviation  
01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
5A-EC-ST-01 to 5A-EC-ST-06	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards. Signs at Locations 1, 4, and 5 should be replaced with signs without the "Except Buses" message beneath, since they control driveways where buses should not enter either. Enlarge the size of "STOP" signs at Locations 4 and 5 to obscure the shape of signs mounted on the other side. Update speed limit sign to meet MUTCD standards.	\$ 6,500
5A-EC-ST-07	DART	Install crosswalk striping	Add crosswalk striping parallel to and on either side of the decorative brick crosswalk to make it a high-visibility crosswalk and to properly define it as a legal crosswalk where pedestrians have the right-of-way.	\$ 200
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 6,700</b>
5A-EC-ST-08	City of Dallas	Install crosswalk striping, update and install signs Relocate signs, install RRFB's on pedestrian signs	Add advance yield lines and "Yield Here to Pedestrians" signing at the existing crosswalk across Eighth Street. Update pedestrian warning sign in eastbound direction to be fluorescent yellow with diagonal arrow panel pointing to crosswalk. Add pedestrian warning signs in the median refuge island.  Relocate "Stop Here on Red" sign on westbound approach below new upstream "Yield Here to Pedestrians" sign. Prevent buses from stopping just upstream of the crosswalk. Consider pushbutton-activated rectangular rapid flashing beacons (RRFB's) attached to the pedestrian warning sign assemblies.	\$ 52,500
<b>Opinion of Probable Cost - City of Dallas Subtotal.....</b>				<b>\$ 52,500</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 59,200</b>



**DART Last Mile Connections Project - Eighth & Corinth Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
5A-EC-ST-01 to 5A-EC-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	8	8	\$ 5,200.00	Update DO NOT ENTER, STOP, and speed limit signs
Update signs		Contingency				25%	\$ 1,300.00	
	<b>Subtotal</b>						\$ 6,500.00	
5A-EC-ST-07	723	6 IN THERMOPLASTIC LANE MARKER	Lin. Ft.	\$3.00	52	52	\$ 156.00	Install crosswalk, add 6" line to existing brick crosswalk
Install crosswalk striping		Contingency				25%	\$ 39.00	
	<b>Subtotal</b>						\$ 200.00	
5A-EC-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	7	7	\$ 4,550.00	Add advance yield lines, (4 triangles/lane x 4 lanes), install "Yield Here to Pedestrians" signs (4) at existing crosswalk, Update ex. sign for FY color, add 2 pedestrian warning signs to median refuge
Install crosswalk stiping, update and install signs	666	REFL PAV MRK TY I (W) 36" (YLD TRI) (100 MIL)	Each	\$ 40.00	16	16	\$ 640.00	
	666	REF PAV MRK TY II (W) 36" (YLD TRI)	Each	\$ 20.00	16	16	\$ 320.00	
		Contingency				25%	\$ 1,377.50	
	<b>Subtotal</b>						\$ 6,900.00	
5A-EC-ST-08	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	Relocate "Stop Here on Red" & DART Park & Ride directional signs, install flashing RRFB to pedestrian warning sings
Relocate signs, install RRFB's on pedestrian signs	XXX	RRFB Installation (Solar units with pole, pushbutton)	Each	\$ 36,000.00	1	1	\$ 36,000.00	
		Contingency				25%	\$ 9,111.50	
	<b>Subtotal</b>						\$ 45,600.00	
<b>Grand Total</b>								<b>\$ 59,200.00</b>

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
<b>25% Total Contingency</b>			

# Dallas Zoo Station

**Opinion of Probable Constr. Cost = \$72,700**

**Improvement Code Legend**  
**ID: 5B-DZ-ST-01**  
 5B ← Station Number      ST ← Station Improvement  
 DZ ← Station Abbreviation  
 01 ← Improvement Number (matches on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
5B-DZ-ST-01 to 5B-DZ-ST-03	DART/City of Dallas	Crosswalk striping	Add crosswalk striping parallel to and on either side of the decorative brick crosswalks to make them high-visibility crosswalks and to properly define them as legal crosswalks where pedestrians have the right-of-way. Add advance yield warning lines and "Yield Here to Pedestrians" signing in advance of crosswalks.	\$ 600
5B-DZ-ST-02 to 5B-DZ-ST-04	DART/City of Dallas	Yield Lines, Ped. Warning Signs, RRFB's	Add pedestrian warning signs and pedestrian-actuated Rectangular Rapid Flashing Beacons (RRFB's) on southbound Clarendon Drive approach. Approach currently has one advance warning sign, but no warning signs at the crosswalk and no beacons. Add pedestrian warning signs and pedestrian-actuated Rectangular Rapid Flashing Beacons (RRFB's) on northbound Clarendon Drive approach. Approach currently has one warning sign with flashing yellow beacon mounted in the median, but no warning signs on the outside of the roadway and no advance warning sign. Add pedestrian warning signs and pedestrian-actuated Rectangular Rapid Flashing Beacons (RRFB's) on northbound Clarendon Drive approach. Approach currently has one warning sign with flashing yellow beacon mounted in the median, but no warning signs on the outside of the roadway and no advance warning sign. Install pedestrian warning sign for crosswalk across bus loop.	\$ 69,600
5B-DZ-ST-05 to 5B-DZ-07	DART/City of Dallas	Update DO NOT ENTER signs	Replace the existing DO NOT ENTER sign that has been knocked down. Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 2,500

**Opinion of Probable Cost - DART/City of Dallas Subtotal.....** \$ 72,700  
**Opinion of Probable Cost - Total for All Recommendations at Station.....** \$ 72,700


**DART Last Mile Connections Project - Dallas Zoo Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
5B-DZ-ST-01 to 5B-DZ-ST-03	723	6 IN THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 3.00	149	150	\$ 450.00	Add crosswalk striping for 3 crosswalks (#1 for one side only)
Crosswalk striping		<i>Contingency</i>				25%	\$ 112.50	
	<b>Subtotal</b>						\$ 600.00	
5B-DZ-ST-02 to 5B-DZ-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	9.5	9.5	\$ 6,175.00	Assume 3 R1-5's & 6.5 W11-2's (there's only room in median for Yield Here to Peds in NB direction due to bus loop, count existing sign in median as 1/2 sign).
	666	REFL PAV MRK TY I (W) 36" (YLD TRI) (100 MIL)	Each	\$ 40.00	24	24	\$ 960.00	
	666	REF PAV MRK TY II (W) 36" (YLD TRI)	Each	\$ 20.00	24	24	\$ 480.00	
Yield Lines, Ped. Warning Signs, RRFB's	XXX	RRFB Installation (Solar units with pole, pushbutton)	Each	\$ 12,000.00	4	4	\$ 48,000.00	
		<i>Contingency</i>				25%	\$ 13,903.75	
	<b>Subtotal</b>						\$ 69,600.00	
5B-DZ-ST-05 to 5B-DZ-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	3	3	\$ 1,950.00	Replace 3 DO NOT ENTER signs
Update DO NOT ENTER signs		<i>Contingency</i>				25%	\$ 487.50	
	<b>Subtotal</b>						\$ 2,500.00	
<b>Grand Total</b>							<b>\$ 72,700.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

# Morrell Station

**Opinion of Probable Constr. Cost = \$2,000**

**Improvement Code Legend**  
**ID: 5C-MO-ST-01**  
 5C ← Station Number      ST ← Station Improvement  
 MO ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)

North Central Texas Council of Governments  
 DART Red & Blue Line Corridors Last Mile Connections 

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
5C-MO-ST-01 to 5C-MO-ST-02	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 1,700</b>
5C-MO-ST-03 to 5C-MO-ST-04	DART/City of Dallas	Install signed & marked crosswalks	Install four signed and marked crosswalks with new streetlighting, as well as ADA compliant ramps on both sides of DART platform. Consider adding median refuge islands in coordination with City of Dallas to shorten the crossing distance and separate conflicts for crossing pedestrians. See half-mile area improvements 5C-MO-CW-66 through 5C-MO-CW-69 for more details and cost information. Cost assumed to be shared 50%/50% between DART and City of Dallas.	Separate Project
5C-MO-ST-05	DART/City of Dallas	Relocate sign from sidewalk	Relocate stop sign from sidewalk.	\$ 300
<b>Opinion of Probable Cost - DART/City of Dallas Subtotal.....</b>				<b>\$ 300</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 2,000</b>



**DART Last Mile Connections Project - Morrell Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
5C-MO-ST-01 to 5C-MO-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update DO NOT ENTER signs	
Update signs		<i>Contingency</i>				25%	\$ 325.00		
	<b>Subtotal</b>						\$ 1,700.00		
5C-MO-ST-03 to 5C-MO-ST-04		<i>Not Applicable</i>							
Install signed & marked crosswalks									
5C-MO-ST-05	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	Relocate stop sign from sidewalk	
Relocate sign from sidewalk		<i>Contingency</i>				25%	\$ 55.75		
	<b>Subtotal</b>						\$ 300.00		
<b>Grand Total</b>							<b>\$ 2,000.00</b>		

Contingency Items:	Contingency	Contingency Items:	Contingency	
Design Fee	10%	Erosion & Sediment Control Allowance	2%	25% Total Contingency
Mobilization	4%	Traffic Control Allowance	3%	
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

# Tyler Vernon Station

**Improvement Code Legend**  
**ID: 6A-TV-ST-01**  
 6A ← Station Number      ST ← Station Improvement  
 TV ← Station Abbreviation  
 01 ← Improvement Number (matches on Map)

North Central Texas Council of Governments  
 DART Red & Blue Line Corridors Last Mile Connections

**Opinion of Probable Constr. Cost = \$131,900**

**Opinion of Probable Cost**

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
6A-TV-ST-01	DART	Tree Trimming	The pedestrian crossing sign is blocked by tree branches. Trim the tree branches for a clear view of the sign.	\$ -
6A-TV-ST-02	DART	Add Sidewalk, rebuild retaining wall	The existing pedestrian ramp slope is too steep. Build sidewalk on the north side of the street, which would require reconstruction of the sloped retaining wall between the street and the fence at the boundary of the vacant lot above. The sidewalk construction would also require removal of or root damage to several trees and would require either regrading of slopes or construction of short retaining walls. It may be acceptable to delay this improvement until development of the property to the north. See also half-mile area improvement 6A-TV-SW-66.	\$ 126,900
6A-TV-ST-03	DART	Restripe Crosswalk	Restripe faded pedestrian crosswalk. It may be acceptable to delay this improvement until development of the property to the north.	\$ 1,500
6A-TV-ST-04	DART	Reinstall ONE WAY Sign	Update "ONE WAY" sign to meet MUTCD standards.	\$ 900
6A-TV-ST-05	DART	Tree Trimming	The stop sign is blocked by tree branches. Trim the tree branches for a clear view of the sign.	\$ -
6A-TV-ST-06	DART	Reinstall STOP Sign	The size of the STOP sign needs to be increased to obscure the shape of signs mounted on the other side.	\$ 900
6A-TV-ST-07 6A-TV-ST-08	DART	Reinstall DO NOT ENTER signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 131,900</b>
6A-TV-ST-09	City of Dallas	Install/Relocate Signs; Construct Traffic Signal	Relocate the existing pedestrian crossing signs closer to the pedestrian crosswalk for both northbound and southbound. Install new pedestrian advance crossing warning signs and pedestrian crossing signs for both northbound and southbound. Also, add yield lines, "Yield Here to Pedestrians" signs, and a full traffic signal at the crosswalk. Add a full traffic signal, since RRFB flashing yellow lights or pedestrian hybrid beacon wig-wag red lights might be confusing at same time as flashing red railroad crossing beacon. See half-mile matrix for cost details (assumed 50%/50% split between DART and City of Dallas).	\$ -
<b>Opinion of Probable Cost - City of Dallas Subtotal.....</b>				<b>\$ -</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 131,900</b>



**DART Last Mile Connections Project - Tyler Vernon Station Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
6A-TV-ST-01									
Tree Trimming							<i>Not Applicable</i>		
6A-TV-ST-02	206A	REMOVE CONC/MASONRY/ROCK RETAINING WALL	Lin. Ft.	\$ 17.00	175	175	\$ 2,975.00	Assume sidewalk 585 foot length, 5 foot width; Assume retaining walls and other items as listed.	
Add Sidewalk, rebuild retaining wall	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	325.0	325	\$ 20,475.00		
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50		
	7530	CURB & GUTTER	Lin. Ft.	\$ 39.72	250	250	\$ 9,930.00		
	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00		
	XXX	BUILD RETAINING WALL (1' height)	Lin. Ft.	\$ 20.00	250	250	\$ 5,000.00		
	XXX	BUILD RETAINING WALL (2' height)	Lin. Ft.	\$ 40.00	50	50	\$ 2,000.00		
	XXX	BUILD RETAINING WALL (3' height)	Lin. Ft.	\$ 75.00	220	220	\$ 16,500.00		
	XXX	DRIVEWAY (RESIDENTIAL)	Each	\$ 3,972.22	1	1	\$ 3,972.22		
	XXX	TREE RELOCATIONS	Each	\$ 2,768.00	3	3	\$ 8,304.00		
	639	TREE REMOVALS	Each	\$ 886.00	13	13	\$ 11,518.00		
	XXX	UTILITY BOX RELOCATION	Each	\$ 729.33	1	1	\$ 729.33		
	210B	FENCE (REMOVE AND REPLACE)	Lin. Ft.	\$ 53.00	220	220	\$ 11,660.00		
	20652	FIRE HYDRANT RELOCATED	Each	\$ 3,640.00	1	1	\$ 3,640.00		
	<i>Contingency</i>					25%	\$ 25,378.76		
	<b>Subtotal</b>						\$ 126,900.00		
6A-TV-ST-03	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	132	132	\$ 1,188.00	Assume 6' wide crosswalk 44' long, 50% covered with thermo.	
Restripe Crosswalk		<i>Contingency</i>					25%		\$ 297.00
		<b>Subtotal</b>							\$ 1,500.00
6A-TV-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 ONE WAY sign	
Reinstall ONE WAY Sign		<i>Contingency</i>					25%		\$ 162.50
		<b>Subtotal</b>							\$ 900.00
6A-TV-ST-05									
Tree Trimming							<i>Not Applicable</i>		
6A-TV-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 STOP sign	
Reinstall STOP Sign		<i>Contingency</i>					25%		\$ 162.50
		<b>Subtotal</b>							\$ 900.00
6A-TV-ST-07 6A-TV-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 DO NOT ENTER signs	
Reinstall DO NOT ENTER signs		<i>Contingency</i>					25%		\$ 325.00
		<b>Subtotal</b>							\$ 1,700.00


**DART Last Mile Connections Project - Tyler Vernon Station Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6A-TV-ST-09								
Install/Relocate signs; Add full traffic signal								<i>Not Applicable - Separate DART and City Project</i>
<b>Grand Total</b>							<b>\$ 131,900.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency	
Design Fee	10%	Erosion & Sediment Control Allowance	2%	25%
Mobilization	4%	Traffic Control Allowance	3%	Total Contingency
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

# Hampton Station

Opinion of Probable Constr. Cost = \$62,400

**Improvement Code Legend**  
 ID: 6B-HA-ST-01  
 6B ← Station Number      ST ← Station Improvement  
 HA ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
6B-HA-ST-01	DART	Remove brick work; Extend crosswalk	Remove decorative brick work and replace with standard pavement wherever it overlaps or intersects a marked crosswalk. Decorative brick work completely outside of marked crosswalks should either be removed and replaced with standard pavement (which is what has been priced for the cost estimate) or removed and replaced with architectural features that do not mimic the brick work also found in other actual crosswalks designed for pedestrian use in and adjacent to the station area. For example, similar brick work is used for crosswalks at Location #2 and at the signalized intersection of Hampton Rd and Wright St. (White lines bordering the signalized crosswalks are being recommended to the City of Dallas). The presence of similar materials in locations where crosswalks are not intended may temporarily confuse distracted pedestrians. A design for crosswalks in the area that is consistent, legal, and distinct from architectural flourishes is recommended for proper emphasis of correct pedestrian crossing locations. Extend the existing crosswalk pavement markings across the area where pavers were removed.	\$ 51,900
6B-HA-ST-02	DART	Add crosswalk	Put white lines parallel to and outside of the existing brick crosswalk.	\$ 600
6B-HA-ST-03 6B-HA-ST-04	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
6B-HA-ST-05 6B-HA-ST-06	DART	Remove fence and add new ramps	Coordinate with City of Dallas to add two signed and marked, high-visibility crosswalks across Wright St at Hollywood Avenue. In conjunction with this improvement, some fence removal will be needed to provide gaps. Provide pedestrian ramps on the south side of Wright St to connect the new crosswalks to the existing sidewalk that is set back from the street by a grass strip. Cost shown includes only portion of work on south side of Wright St in or near DART right-of-way. See half-mile area improvements 6B-HA-CW-90 and 6B-HA-CW-91 for more details and cost information about related crosswalk improvements, including construction of median refuge islands for crossing Wright Ave.	\$ 7,300
6B-HA-ST-07	DART	Update sign	The existing STOP sign needs to be removed and replaced with a STOP sign on an octagonal panel that does not have the rectangular white background.	\$ 900

**Opinion of Probable Cost - DART Subtotal**..... \$ 62,400  
**Opinion of Probable Cost - Total for All Recommendations at Station**..... \$ 62,400




**DART Last Mile Connections Project - Hampton Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6B-HA-ST-01	203 A	REMOVE BRICK PAVERS	Sq. Yd.	\$ 31.00	400.34	400	\$ 12,400.00	Assume an equivalent quantity of standard concrete pavement will be added. Assume 9' wide crosswalk 18' long, 50% covered with thermo and 50% to be added
Remove brick work; Extend crosswalk	457	6" THICK REINF CONC DRIVEWAY	Sq. Yd.	\$ 72.00	400.34	400	\$ 28,800.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	27	27	\$ 243.00	
		Contingency				25%	\$ 10,360.75	
	<b>Subtotal</b>						\$ 51,900.00	
6B-HA-ST-02	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	48	48	\$ 432.00	12" line on either side of 24' crosswalks
Add crosswalk		Contingency				25%	\$ 108.00	
	<b>Subtotal</b>						\$ 600.00	
6B-HA-ST-03 6B-HA-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 DO NOT ENTER signs
Update signs		Contingency				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
6B-HA-ST-05 6B-HA-ST-06	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	Assume 10' fence will be removed and 2 new ramps will be built; assume ~40 LF of 5' wide sidewalk for connections
Remove fence and add new ramps	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	355	4" THICK REINF CONC WALK	Sq. Yd.	\$ 63.00	22.22	22	\$ 1,386.00	
		Contingency				25%	\$ 1,452.88	
	<b>Subtotal</b>						\$ 7,300.00	
6B-HA-ST-07	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	
Update sign		Update 1 sign				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	
<b>Grand Total</b>							<b>\$ 62,400.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency

# Westmoreland Station

**Opinion of Probable Constr. Cost = \$145,400**

**Improvement Code Legend**  
**ID: 6C-W-ST-01**  
 6C ← Station Number      ST ← Station Improvement  
 W ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
6C-WM-ST-01	DART	Install Sign	Add pedestrian warning signs.	\$ 900
6C-WM-ST-02	DART	Add crosswalk	Stripe new pedestrian crosswalk.	\$ 1,700
6C-WM-ST-03	DART	Fix Ramp	Fix trip hazard where pedestrian ramp has loose bricks.	\$ 300
6C-WM-ST-04	DART	Update Pedestrian Warning Sign	Update westbound pedestrian warning sign to meet MUTCD standards. The existing signs have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards. Add a new pedestrian warning sign facing eastbound traffic.	\$ 1,700
6C-WM-ST-05	DART	Update DO NOT ENTER Sign	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 900
6C-WM-ST-06	DART	Add crosswalk	Stripe new pedestrian crosswalk.	\$ 3,500
6C-WM-ST-07	DART	Install 2 stone pillar bollards	Install stone pillar bollards between the south side of the platform and the station parking area, similar to how they're present between the north side of the platform, to prevent motorized vehicles from trying to enter.	\$ 800
6C-WM-ST-08	DART	Relocate 2 Pedestrian Warning Signs. Build 2 new Pedestrian Warning Signs. Build 4 new ramps. Stripe 2 new pedestrian crosswalks.	Stripe a new crosswalk with new pedestrian ramps crossing from the northwest to northeast corner of the intersection. Relocate two pedestrian warning signs away from the stop-controlled crosswalks where they aren't needed (and where one partially obstructs the sidewalk). Relocate them adjacent to the new crosswalk across the north leg. Restripe the existing crosswalk from the southwest to southeast corner that has been mostly covered with new pavement. Add two new pedestrian ramps and two more pedestrian warning signs adjacent to it.	\$ 16,200
6C-WM-ST-09	DART	Relocate pedestrian light pole	Relocate pedestrian light pole by moving it out of the sidewalk to the north on the grass.	\$ 3,700
6C-WM-ST-10 6C-WM-ST-11	DART	Relocate 2 signs	Relocate the "STOP" and "DO NOT ENTER" signs off of the sidewalk so pedestrian travel will not be impeded.	\$ 600
6C-WM-ST-12	DART	Build new sidewalk	Add new sidewalk. Relocation of the existing streetlighting pole will be necessary. Add new crosswalk connecting to the north side of the station platform.	\$ 18,900
6C-WM-ST-13	DART	Build new sidewalk and crosswalk, build 2 new signs	Provide a new sidewalk connection through the DART Park & Ride lot to properties to the south along Glenfield Dr. Narrow the driveway aisle from the current 24 feet to 14 feet, making it one-way southbound, and use the extra 10 feet on the west side to provide a new sidewalk. Add two "DO NOT ENTER" signs at the south end of the driveway aisle. Coordinate with City of Dallas and private property owner to the south regarding connection to potential sidewalk on private property connecting to Glenfield Ave. Estimated cost shown is for DART property only. See half-mile area improvement 6C-WM-SW-120 for more details and cost information on portion of improvement on private property.	\$ 48,500
6C-WM-ST-14	DART	Build new sidewalk; Remove trees and tracks.	Pedestrians were observed walking on the entrance driveway here in the absence of sidewalk. New sidewalk is recommended to be built to accommodate pedestrian needs. Root damage to three trees may occur when building sidewalk near Westmoreland Rd. The abandoned, skewed BNSF freight rail spur tracks would need to be removed where they cross the proposed sidewalk alignment. The tracks are clearly no longer in use since they have been removed where they previously crossed Westmoreland Rd just to the west. Sidewalk near the east end of the segment may require removing a portion of the abandoned freight rail spur line to the south to avoid impacts to existing trees planted along the curb line.	\$ 36,100
6C-WM-ST-15	DART	Add crosswalk	Add a signed and marked high-visibility crosswalk across the DART station driveway south of the platform.	\$ 7,800
6C-WM-ST-16	DART	Add sidewalk	Add sidewalk from the south west end of the station platform for passengers walking to/from the south along Westmoreland Rd. Some regrading may be needed, and root damage could occur to a few trees depending on the sidewalk alignment.	\$ 3,800

**Opinion of Probable Cost - DART Subtotal.....** \$ 145,400  
**Opinion of Probable Cost - Total for All Recommendations at Station.....** \$ 145,400



**DART Last Mile Connections Project - Westmoreland Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6C-WM-ST-01	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	Install 1 pedestrian warning sign
Install Sign		<i>Contingency</i>				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	
6C-WM-ST-02	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00	Assume 6' wide crosswalk 30' long, 50% covered with thermo.
Add crosswalk		<i>Contingency</i>				25%	\$ 337.50	
	<b>Subtotal</b>						\$ 1,700.00	
6C-WM-ST-03	XXX	Fix trip hazard		\$ 200.00	1	1	\$ 200.00	Assume material cost nominal with most of cost labor.
Fix Ramp		<i>Contingency</i>				25%	\$ 50.00	
	<b>Subtotal</b>						\$ 300.00	
6C-WM-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	2 signs
Update Pedestrian Warning Sign		<i>Contingency</i>				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
6C-WM-ST-05	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	1	1	\$ 650.00	1 sign
Update DO NOT ENTER Sign		<i>Contingency</i>				25%	\$ 162.50	
	<b>Subtotal</b>						\$ 900.00	
6C-WM-ST-06	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	165	165	\$ 1,485.00	Assume 6' wide crosswalk 33' long, 50% covered with thermo.
Add crosswalk	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
		<i>Contingency</i>				25%	\$ 696.25	
		<b>Subtotal</b>					\$ 3,500.00	
6C-WM-ST-07	XXX	Install stone pillar bollards	Each	\$ 300.00	2	2	\$ 600.00	Install 2 stone pillar bollards; Assuming \$300 /unit
Install 2 stone pillar bollards		<i>Contingency</i>				25%	\$ 150.00	
		<b>Subtotal</b>					\$ 800.00	
6C-WM-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Relocate 2 Pedestrian Warning Signs. Build 2 new Pedestrian Warning Signs. Build 4 new ramps. Stripe 2 new pedestrain crosswalks. Assume 6' wide crosswalk (30'+25') long, 50% covered with thermo.
Relocate 2 Pedestrian Warning Signs. Build 2 new Pedestrian Warning Signs. Build 4 new ramps. Stripe 2 new pedestrain crosswalks.	618	BARRIER FREE RAMP	Each	\$ 2,182.75	4	4	\$ 8,731.00	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	275	275	\$ 2,475.00	
	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	
		<i>Contingency</i>				25%	\$ 3,238.00	
	<b>Subtotal</b>						\$ 16,200.00	
6C-WM-ST-09	1001 A	REMOVE STREET LIGHT POLE AND ASSEMBLY	Each	\$ 585.00	1	1	\$ 585.00	Relocate 1 pedestrian light pole
Relocate pedestrian light pole	8777 BBB	STANDARD ONCHOR LIGHT POLE	Each	\$ 2,323.00	1	1	\$ 2,323.00	
		<i>Contingency</i>				25%	\$ 727.00	
		<b>Subtotal</b>					\$ 3,700.00	
6C-WM-ST-10 6C-WM-ST-11	728	REMOVE AND RESET SIGN	Each	\$ 223.00	2	2	\$ 446.00	Relocate 2 signs
Relocate 2 signs		<i>Contingency</i>				25%	\$ 111.50	
		<b>Subtotal</b>					\$ 600.00	



**DART Last Mile Connections Project - Westmoreland Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
6C-WM-ST-12	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	88.9	89	\$ 5,607.00	Assume 160*5=800 sf. For crosswalk, assume 6' wide crosswalk 18' long.
Build new sidewalk	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	36	36	\$ 324.00	
	689	LIGHT POLE RELOCATION	Each	\$ 4,758.00	1	1	\$ 4,758.00	
		Contingency				25%	\$ 3,763.63	
		<b>Subtotal</b>					\$ 18,900.00	
6C-WM-ST-13	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	155.6	156	\$ 9,828.00	For sidewalk, assume 200 ft * 7 ft = 1400 sf. For crosswalk, assume 6' wide crosswalk 32' long, 50% covered with thermo.
Build new sidewalk and crosswalk, build 2 new signs	458	CURB AND GUTTER	Lin. Ft.	\$ 39.72	200.0	200	\$ 7,944.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	160	160	\$ 1,440.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	
	201	REMOVE CONCRETE PAVEMENT DRIVE AND APRON	Sq. Yd.	\$ 71.00	155.6	156	\$ 11,076.00	
	202	REMOVE SEP CONC CURB W/WO GUTTER	Lin. Ft.	\$ 8.00	190	190	\$ 1,520.00	
		Contingency				25%	\$ 9,693.38	
	<b>Subtotal</b>					\$ 48,500.00		
6C-WM-ST-14	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	327.8	328	\$ 20,664.00	For sidewalk, assume 590' length
Build new sidewalk; Remove trees and tracks.	XXX	STREET EXCAVATION (REMOVE TRACKS)	CY	\$ 37.00	220	220	\$ 8,140.00	
		Contingency				25%	\$ 7,201.00	
	<b>Subtotal</b>					\$ 36,100.00		
6C-WM-ST-15	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	60	60	\$ 540.00	Assume 6' wide crosswalk 30' long
Add crosswalk	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
		Contingency				25%	\$ 1,551.38	
	<b>Subtotal</b>					\$ 7,800.00		
6C-WM-ST-16	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	33.3	34	\$ 2,142.00	Assume 60*5 = 300 sf
Add sidewalk		TREE REMOVAL	Each	\$ 886.00	1	1	\$ 886.00	
		Contingency				25%	\$ 757.00	
	<b>Subtotal</b>					\$ 3,800.00		
<b>Grand Total</b>							<b>\$ 145,400.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%

25%  
Total Contingency



# Illinois Station

**Opinion of Probable Constr. Cost = \$34,400**

**Improvement Code Legend**  
**ID: 7A-IL-ST-01**  
 7A ← Station Number      ST ← Station Improvement  
 IL ← Station Abbreviation  
 01 ← Improvement Number (matches on Map)

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
7A-IL-ST-01 7A-IL-ST-02	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards. Increase the size of STOP signs to obscure the shape of signs mounted on the other side. For #1, tree trimming or STOP sign relocation is needed to avoid branches obscuring the sign.	\$ 3,300
7A-IL-ST-03 7A-IL-ST-04	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
7A-IL-ST-05 7A-IL-ST-06	DART	Update signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs have the wrong panel shape, and do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 1,700
7A-IL-ST-07 7A-IL-ST-08	DART	Update signs	Update "DO NOT ENTER" signs to meet MUTCD standards.	\$ 1,700
7A-IL-ST-09	DART	Build new pedestrian ramp	Build new ramp to accommodate pedestrian needs.	\$ 2,800
7A-IL-ST-10	DART	Build new pedestrian ramps, sidewalk and crosswalk. Remove fence and trees. Add 2 pedestrian warning signs.	Build new connection from #4 to sidewalk on north side of Louisiana Ave. The improvement would include a small segment of sidewalk (including ramps), crosswalk striping and removal of a segment of existing fence. One or two trees may experience root damage or need to be removed. Add 2 pedestrian warning signs.	\$ 13,600
7A-IL-ST-11	DART	Build new pedestrian ramps and sidewalks. Remove fence segment to connect to sidewalk outside station. Add 2 pedestrian warning signs. Remove existing crosswalk and stripe new crosswalk.	Build pedestrian ramps, short sidewalk segment, and provide break in fence at DART property boundary to connect station platform to future Regional Veloweb trail. Remove existing crosswalk inside fenced police station parking lot. Add new crosswalk outside of fenced lot with 2 pedestrian warning signs.	\$ 9,600
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 34,400</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 34,400</b>

**DART Last Mile Connections Project - Illinois Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
7A-IL-ST-01 7A-IL-ST-02	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	4	4	\$ 2,600.00	Update 4 DO NOT ENTER signs
Update signs		<i>Contingency</i>				25%	\$ 650.00	
	<b>Subtotal</b>						\$ 3,300.00	
7A-IL-ST-03 7A-IL-ST-04	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER signs
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
7A-IL-ST-05 7A-IL-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 PED signs
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
7A-IL-ST-07 7A-IL-ST-08	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 DO NOT ENTER signs
Update signs		<i>Contingency</i>				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
7A-IL-ST-09	618	BARRIER FREE RAMP	Each	\$ 2,182.75	1	1	\$ 2,182.75	Build 1 new pedestrian ramp
Build new pedestrian ramp		<i>Contingency</i>				25%	\$ 545.69	
	<b>Subtotal</b>						\$ 2,800.00	
7A-IL-ST-10	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	Assume 10' fence will be removed, 2 new ramps will be built and 2 trees will be removed. Assume 6' wide crosswalk 25' long, 50% covered with thermo. For sidewalk, assume 45*7=315 sf.
Build new pedestrian ramps, sidewalk and crosswalk. Remove fence and trees. Add 2 pedestrian warning signs.	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50	
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	125	125	\$ 1,125.00	
	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	35	35	\$ 2,205.00	
	639	REMOVE TREE	Each	\$ 886.00	2	2	\$ 1,772.00	
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	
		<i>Contingency</i>				25%	\$ 2,706.88	
	<b>Subtotal</b>						\$ 13,600.00	


**DART Last Mile Connections Project - Illinois Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions	
7A-IL-ST-11	208	REMOVE FENCE	Lin. Ft.	\$ 6.00	10	10	\$ 60.00	Assume 10' fence will be removed and 2 new ramps will be built. For sidewalk, assume 10*7=70 sf. Assume 30' crosswalk will be removed and restriped.	
Build new pedestrian ramps and sidewalks. Remove fence segment to connect to sidewalk outside station. Add 2 pedestrian warning signs. Remove existing crosswalk and stripe new crosswalk.	618	BARRIER FREE RAMP	Each	\$ 2,182.75	2	2	\$ 4,365.50		
	7580	REINFORCED CONCRETE SIDEWALK	Sq. Yd.	\$ 63.00	7.78	8	\$ 504.00		
	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00		
	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	150	150	\$ 1,350.00		
	720 C	LANE MARKER REMOVAL	Lin. Ft.	\$ 2.00	30	30	\$ 60.00		
		<i>Contingency</i>					25%		\$ 1,909.88
		<b>Subtotal</b>							<b>\$ 9,600.00</b>
<b>Grand Total</b>							<b>\$ 34,400.00</b>		

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
<b>25% Total Contingency</b>			

### Kiest Station

**Opinion of Probable Constr. Cost = \$58,800**

**Improvement Code Legend**  
**ID: 7B-KS-ST-01**  
 7B ← Station Number      ST ← Station Improvement  
 KS ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)



Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
7B-KS-ST-01	DART/City of Dallas	Remove existing ped pushbuttons and install new APS; Build one new APS pole; Integrate traffic signal with the constant warning time system	The pushbutton to activate the crosswalk across southbound Lancaster Rd from the station platform is located in a dangerously narrow 2.5' wide space between the dynamic envelope of the southbound light rail trains and the southbound travel lanes on Lancaster Rd.  Coordinate with City of Dallas to remove the pushbutton from this pole and install a new pushbutton on a separate pole from the pedestrian signal, which should remain in its existing location. The new pushbutton should be located on the station platform, east of the southbound track. Due to proximity to another pushbutton for crossing the northbound lanes, all existing pushbuttons at the crossing of both northbound and southbound lanes will need to be replaced with accessible pedestrian signal (APS) pushbuttons, and voice messages will need to be used to differentiate between the crossings each pushbutton serves.  Integrate the traffic signal controller with the light rail constant warning time equipment so that pedestrian calls across the southbound Lancaster Rd lanes are not served when trains are present or approaching.	\$ 58,800
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 58,800</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 58,800</b>



**DART Last Mile Connections Project - Kiest Station Preliminary Opinion of Probable Construction Cost**


Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
7B-KS-ST-01	801	REMOVAL OF PEDESTRIAN PUSHBUTTON	Each	\$ 43.00	5	5	\$ 215.00	Assume removing 5 existing ped push buttons and install 5 new ones.
Remove existing ped pushbuttons and install new APS; Build one new APS pole; Integrate traffic signal with the constant warning time system	749	PROC & INSTALL PEDE PUSH BUTTON/SIGN	Each	\$ 1,255.00	5	5	\$ 6,275.00	
	691	PROCURE AND INSTALL PEDESTRIAN LIGHT POLE	Each	\$ 2,158.00	1	1	\$ 2,158.00	
	XXX	Integrate traffic signal with the constant warning time system	Each	\$ 10,000.00	1	1	\$ 10,000.00	
	500	MOBILIZATION	LS	\$ 12,000.00	1	1	\$ 12,000.00	
	680	INSTALL HWY TRAF SIG (ISOLATED)	Each	\$ 10,000.00	1	1	\$ 10,000.00	
	687	PED POLE ASSEMBLY	Each	\$ 2,100.00	1	1	\$ 2,100.00	
	688	PED DETECTOR CONTROLLER UNIT	Each	\$ 3,400.00	1	1	\$ 3,400.00	
	769	INSTALL PEDESTAL POLE FOUNDATION	Each	\$ 865.00	1	1	\$ 865.00	
			<i>Contingency</i>				25%	
	<b>Subtotal</b>						<b>\$ 58,800.00</b>	
<b>Grand Total</b>							<b>\$ 58,800.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency	25% Total Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%	
Mobilization	4%	Traffic Control Allowance	3%	
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%	

## VA Medical Center Station

**Opinion of Probable Constr. Cost = \$70,800**

**Improvement Code Legend**  
**ID: 7C-VA-ST-01**

7C ← Station Number      ST ← Station Improvement  
 VA ← Station Abbreviation  
 01 ← Improvement Number (matches  on Map)

North Central Texas Council of Governments



DART Red & Blue Line Corridors Last Mile Connections

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
7C-VA-ST-01	DART	Replace ped pushbuttons	Coordinate with City of Dallas to replace all existing pedestrian pushbuttons at the intersection of Lancaster Rd with Mentor Ave/Ave of Flags with accessible pedestrian signal (APS) pushbuttons, relocated to accessible locations. These improvements are important given the higher need for accessibility adjacent to the VA Medical Center.	\$ 70,800
<b>Opinion of Probable Cost - City of Dallas Subtotal.....</b>				\$ 70,800
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				\$ 70,800



**DART Last Mile Connections Project - VA Medical Center Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
7C-VA-ST-01	688	PED DETECTOR CONTROLLER UNIT	Each	\$ 3,400.00	2	2	\$ 6,800.00	Assume 5 ped pushbuttons within DART property area
Replace ped pushbuttons	500	MOBILIZATION	LS	\$ 12,000.00	1	1	\$ 12,000.00	
	680	INSTALL HWY TRAF SIG (ISOLATED)	Each	\$ 10,000.00	1	1	\$ 10,000.00	
	749	PROC & INSTALL PEDE PUSH BUTTON/SIGN	Each	\$ 1,255.00	10	10	\$ 12,550.00	
	769	INSTALL PEDESTAL POLE FOUNDATION	Each	\$ 865.00	5	5	\$ 4,325.00	
	687	PED POLE ASSEMBLY	Each	\$ 2,100.00	5	5	\$ 10,500.00	
	801	REMOVAL OF PEDESTRIAN PUSHBUTTON	Each	\$ 43.00	10	10	\$ 430.00	
			<i>Contingency</i>				25%	
	<b>Subtotal</b>						<b>\$ 70,800.00</b>	
<b>Grand Total</b>							<b>\$ 70,800.00</b>	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
<b>25% Total Contingency</b>			



### Cedars Station

**Improvement Code Legend**  
 ID: 8C-C-ST-01  
 8C ← Station Number      ST ← Station Improvement  
 C ← Station Abbreviation  
 01 ← Improvement Number (matches on Map)



**Opinion of Probable Constr. Cost = \$33,300**

Location ID	Ownership	Project Type	Description	Opinion of Probable Cost
8C-C-ST-01	DART	Add crosswalk	Add crosswalk striping parallel to and on either side of the decorative brick crosswalks to make them high-visibility crosswalks and to properly define them as legal crosswalks where pedestrians have the right-of-way.	\$ 2,300
8C-C-ST-02 8C-C-ST-03	DART	Update signs	Update pedestrian warning signs to meet MUTCD standards. The existing signs do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 1,700
8C-C-ST-04	DART	Build new ramps, Add crosswalk	Install white lines at existing crosswalk. Add ramps to accommodate pedestrian needs.	\$ 24,700
8C-C-ST-05	DART	Add crosswalk	Add crosswalk striping parallel to and on either side of the decorative brick crosswalks to make them high-visibility crosswalks and to properly define them as legal crosswalks where pedestrians have the right-of-way.	\$ 1,800
8C-C-ST-06	DART	Update sign	Update pedestrian warning signs to meet MUTCD standards. The existing do not have supplemental arrow plaques as required to meet MUTCD standards.	\$ 2,800
<b>Opinion of Probable Cost - DART Subtotal.....</b>				<b>\$ 33,300</b>
<b>Opinion of Probable Cost - Total for All Recommendations at Station.....</b>				<b>\$ 33,300</b>



**DART Last Mile Connections Project - Cedars Station Preliminary Opinion of Probable Construction Cost**

Improvement No./ Description	City of Dallas Bid Item No.	Item Description	Unit	Unit Price	Quantity	Rounded Quantity	Bid Estimate	Assumptions
8C-C-ST-01	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	204	204	\$ 1,836.00	12" line on either side of 102' crosswalks
Add crosswalk		Contingency				25%	\$ 459.00	
	<b>Subtotal</b>						\$ 2,300.00	
8C-C-ST-02 8C-C-ST-03	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	2	2	\$ 1,300.00	Update 2 PED signs
Update signs		Contingency				25%	\$ 325.00	
	<b>Subtotal</b>						\$ 1,700.00	
8C-C-ST-04	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	252	252	\$ 2,268.00	12" line on either side of crosswalks, assume 8 new ramps
Build new ramps, Add crosswalk	618	BARRIER FREE RAMP	Each	\$ 2,182.75	8	8	\$ 17,462.00	
		Contingency				25%	\$ 4,932.50	
		<b>Subtotal</b>					\$ 24,700.00	
8C-C-ST-05	723 A	12" THERMOPLASTIC LANE MARKER	Lin. Ft.	\$ 9.00	152	152	\$ 1,368.00	12" line on either side of 138' crosswalks
Add crosswalk		Contingency				25%	\$ 342.00	
	<b>Subtotal</b>						\$ 1,800.00	
8C-C-ST-06	729 A	INSTALL GR. MOUNTED REG/GUIDE SIGN	Each	\$ 650.00	3	3	\$ 1,950.00	Update 1 PED sign, add 2 ped signs and relocated 1 sign
Update sign	728	REMOVE AND RESET SIGN	Each	\$ 223.00	1	1	\$ 223.00	
		Contingency				25%	\$ 543.25	
		<b>Subtotal</b>					\$ 2,800.00	
<b>Grand Total</b>							\$ 33,300.00	

Contingency Items:	Contingency	Contingency Items:	Contingency
Design Fee	10%	Erosion & Sediment Control Allowance	2%
Mobilization	4%	Traffic Control Allowance	3%
Landscaping Allowance	4%	Extra Contingency for Federal Aid Project	2%
			25%
			Total Contingency