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TTC-35 - NEAR-TERM FACILITY

Austin-San Antonio Area
SH 130 - Segments 5 and 6

Constructing of current SH 130 typical Section Utilized as General Purpose Toll Lanes		
	Mainlane	Frontage Rd.
Length	45.8 mi	45.8
ROW Width	550 ft	
Travel Lanes	4 In	6
Environmental Status	Approved ROD	
ROW Status	Not begun	
Design Status	Preliminary	
Traffic		
2010 Daily Toll Auto	282,478 VMT	@ Toll Rate: \$0.125
2010 Daily Toll Truck	227,873 VMT	@ Toll Rate: \$0.48
2025 Daily Toll Auto	788,850 VMT	@ Toll Rate: \$0.125
2025 Daily Toll Truck	466,890 VMT	@ Toll Rate: \$0.48

Element	Number	Unit	Unit Price	Total
Utilities	45.8 mi		\$1,000,000	
Roadway - Mainlane	45.8 mi		\$5,200,000	
Roadway - Frontage Rd.	45.8 mi		\$2,550,000	
Interchanges				
Fully Directional	3 ea		\$60,000,000	
Three Level	0 ea		\$10,000,000	
Diamond	6 ea		\$4,000,000	
Structures				
Bridges	49 ea		\$1,000,000	
Other Structures	113 ea		\$250,000	
Toll Facilities	45.8 mi		\$1,000,000	
Construction Total				\$450,731,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$250,000 /mi/yr		\$11,450,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	10 pcl		\$2,288,000 /mi	
Total Parcels	458 pcl		\$25,000	\$116,240,400
Design				
Preliminary (30%)	2 %			\$9,014,620
Final (70%)	4 %			\$18,029,240
TOTAL COST				\$594,015,260

LOS C Required Expansion
Adding 4 Automobile Toll Lanes to Segment 5 Only
Year 2040: 4 In 11.5 mi
80%

Construction		\$90,539,852
Operation	\$150,000 /mi/yr	\$1,725,000
Design	6%	\$5,432,391
TOTAL EXPANSION COST		\$95,972,243

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TTC-35 - NEAR-TERM FACILITY

Dallas Area - Southeast Connector
Between IH 35E - IH 45 - IH 20 - IH 30

Constructing Ultimate Truck Lanes			
Utilized as General Purpose Toll Lanes		Mainlane	Frontage Rd.
Length		57.63 mi	0
ROW Width		1200 ft	
Travel Lanes		4 In	0
Environmental Status		Not begun	
ROW Status		Not begun	
Design Status		Not begun	
Traffic			
2010 Daily Toll Auto	1,823,310 VMT	@ Toll Rate:	\$0.15
2010 Daily Toll Truck	356,500 VMT	@ Toll Rate:	\$0.50
2025 Daily Toll Auto	4,073,877 VMT	@ Toll Rate:	\$0.15
2025 Daily Toll Truck	363,898 VMT	@ Toll Rate:	\$0.50

Element	Number	Unit	Unit Price	Total
Utilities	57.63 mi		\$1,000,000	
Roadway - Mainlane	57.63 mi		\$5,200,000	
Roadway - Frontage Rd.	57.63 mi		\$0	
Interchanges				
Fully Directional	4 ea		\$60,000,000	
Three Level	0 ea		\$10,000,000	
Diamond	5 ea		\$4,000,000	
Structures				
Bridges	7 crossings		\$1,000,000	
Other Structures	37 crossings		\$250,000	
Toll Facilities	57.63 mi		\$1,000,000	
Construction Total				\$567,376,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$300,000 /mi/yr		\$17,289,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	25 pcl		\$1,000,000 /mi	
Total Parcels	1441 pcl		\$25,000	\$93,648,750
Design				
Preliminary (30%)	2 %			\$11,347,520
Final (70%)	4 %			\$22,695,040
TOTAL COST				\$695,067,310

LOS C Required Expansion
Adding 4 Automobile Toll Lanes
Year 2020: 4 In 57.6 mi
80%

Construction		\$453,900,800
Operation	\$150,000 /mi/yr	\$8,644,500
Design	6%	\$27,234,048
TOTAL EXPANSION COST		\$481,134,848

LOS C Required Expansion
Adding 2 Automobile Toll Lanes
Year 2045: 2 In 57.6 mi
80%

Construction		\$226,950,400
Operation	\$75,000 /mi/yr	\$4,322,250
Design	6%	\$13,617,024
TOTAL EXPANSION COST		\$240,567,424

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TTC-35 - NEAR-TERM FACILITY

Dallas Area - Northeast Connector
Between IH 30 and US 75

Constructing Ultimate Truck Lanes			
Utilized as General Purpose Toll Lanes		Mainlane	Frontage Rd.
Length		47.6 mi	0
ROW Width		1200 ft	
Travel Lanes		4 In	0
Environmental Status		Not begun	
ROW Status		Not begun	
Design Status		Not begun	
Traffic			
2010 Daily Toll Auto	1,138,300 VMT	@ Toll Rate:	\$0.15
2010 Daily Toll Truck	228,000 VMT	@ Toll Rate:	\$0.50
2025 Daily Toll Auto	2,315,300 VMT	@ Toll Rate:	\$0.15
2025 Daily Toll Truck	285,600 VMT	@ Toll Rate:	\$0.50

Element	Number	Unit	Unit Price	Total
Utilities	47.6	mi	\$1,000,000	\$47,600,000
Roadway - Mainlane	47.6	mi	\$5,200,000	\$247,520,000
Roadway - Frontage Rd.	47.6	mi	\$0	\$0
Interchanges				
Fully Directional	1	ea	\$60,000,000	\$60,000,000
Three Level	1	ea	\$10,000,000	\$10,000,000
Diamond	7	ea	\$4,000,000	\$28,000,000
Structures				
Bridges	7	crossings	\$1,000,000	\$7,000,000
Other Structures	37	crossings	\$250,000	\$9,250,000
Toll Facilities	47.6	mi	\$1,000,000	\$47,600,000
Construction Total				\$456,970,000
Operation (Admin.)	\$3,000,000	/yr	\$3,000,000	
Operation	\$300,000	/mi/yr	\$14,280,000	
Maintenance	1.5%	/yr of Rev.		
ROW Docs. & Purchase				
Parcels per mile	25	pcl	\$1,000,000 /mi	
Total Parcels	1190	pcl	\$25,000	\$77,350,000
Design				
Preliminary (30%)	2	%		\$9,139,400
Final (70%)	4	%		\$18,278,800
TOTAL COST				\$561,738,200

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TTC-35 - NEAR-TERM FACILITY
 Austin - Temple Area - SH 130 Northern Extension
 Between Segment 1 and North of Temple

Constructing Ultimate Truck Lanes			
Utilized as General Purpose Toll Lanes		Mainlane	Frontage Rd.
Length		58 mi	0
ROW Width		1200 ft	
Travel Lanes		4 ln	0
Environmental Status		Not begun	
ROW Status		Not begun	
Design Status		Not begun	
Traffic			
2010 Daily Toll Auto	453,697 VMT	@ Toll Rate:	\$0.15
2010 Daily Toll Truck	379,038 VMT	@ Toll Rate:	\$0.50
2025 Daily Toll Auto	930,366 VMT	@ Toll Rate:	\$0.15
2025 Daily Toll Truck	488,155 VMT	@ Toll Rate:	\$0.50

Element	Number	Unit	Unit Price	Total
Utilities	58	mi	\$1,000,000	
Roadway - Mainlane	58	mi	\$5,200,000	
Roadway - Frontage Rd.	58	mi	\$0	
Interchanges				
Fully Directional	1	ea	\$60,000,000	
Three Level	0	ea	\$10,000,000	
Diamond	10	ea	\$4,000,000	
Structures				
Bridges	18	crossings	\$1,000,000	
Other Structures	43	crossings	\$250,000	
Toll Facilities	58	mi	\$1,000,000	
Construction Total				\$555,000,000
Operation (Admin.)	\$3,000,000	/yr	\$3,000,000	
Operation	\$300,000	/mi/yr	\$17,400,000	
Maintenance	1.5%	/yr of Rev.		
ROW Docs. & Purchase				
Parcels per mile	25	pcl	\$1,000,000 /mi	
Total Parcels	1450	pcl	\$25,000	\$94,250,000
Design				
Preliminary (30%)	2	%		\$11,100,000
Final (70%)	4	%		\$22,200,000
TOTAL COST				\$682,550,000

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TTC-35 - NEAR-TERM FACILITY
 San Antonio Area - SE Loop
 Along FM 1518 and FM 1604 Between IH 10 and IH 37

Constructing Ultimate Truck Lanes			
Utilized as General Purpose Toll Lanes		Mainlane	Frontage Rd.
Length		25.57 mi	25.57
ROW Width		1200 ft	
Travel Lanes		4 In	4
Environmental Status		Not begun	
ROW Status		Not begun	
Design Status		Not begun	
Traffic			
2010 Daily Toll Auto	142,500 VMT	@ Toll Rate:	\$0.15
2010 Daily Toll Truck	105,000 VMT	@ Toll Rate:	\$0.50
2025 Daily Toll Auto	352,500 VMT	@ Toll Rate:	\$0.15
2025 Daily Toll Truck	165,000 VMT	@ Toll Rate:	\$0.50

Element	Number	Unit	Unit Price	Total
Utilities	25.57	mi	\$1,000,000	
Roadway - Mainlane	25.57	mi	\$5,200,000	
Roadway - Frontage Rd.	25.57	mi	\$2,400,000	
Interchanges				
Fully Directional	2	ea	\$60,000,000	
Three Level	1	ea	\$10,000,000	
Diamond	2	ea	\$4,000,000	
Structures				
Bridges	5	crossings	\$1,000,000	
Other Structures	25	crossings	\$250,000	
Toll Facilities	25.57	mi	\$1,000,000	
Construction Total				\$286,250,000
Operation (Admin.)	\$3,000,000	/yr	\$3,000,000	
Operation	\$300,000	/mi/yr	\$7,671,000	
Maintenance	1.5%	/yr of Rev.		
ROW Docs. & Purchase				
Parcels per mile	25	pcl	\$1,000,000 /mi	
Total Parcels	639	pcl	\$25,000	\$41,551,250
Design				
Preliminary (30%)	2	%		\$5,725,000
Final (70%)	4	%		\$11,450,000
TOTAL COST				\$344,976,250

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TTC-35 - NEAR-TERM FACILITY
 Temple to Dallas SE Connector
 Between North of Temple to Dallas SE Connector

Constructing Ultimate Truck Lanes			
Utilized as General Purpose Toll Lanes		Mainlane	Frontage Rd.
Length		106.1 mi	0
ROW Width		1200 ft	
Travel Lanes		4 ln	0
Environmental Status		Not begun	
ROW Status		Not begun	
Design Status		Not begun	
Traffic			
2010 Daily Toll Auto	657,000 VMT	@ Toll Rate:	\$0.15
2010 Daily Toll Truck	438,000 VMT	@ Toll Rate:	\$0.50
2025 Daily Toll Auto	1,795,000 VMT	@ Toll Rate:	\$0.15
2025 Daily Toll Truck	590,000 VMT	@ Toll Rate:	\$0.50

Element	Number	Unit	Unit Price	Total
Utilities	106.1 mi		\$1,000,000	\$106,100,000
Roadway - Mainlane	106.1 mi		\$5,200,000	\$551,720,000
Roadway - Frontage Rd.	106.1 mi		\$0	\$0
Interchanges				
Fully Directional	2 ea		\$60,000,000	\$120,000,000
Three Level	3 ea		\$10,000,000	\$30,000,000
Diamond	7 ea		\$4,000,000	\$28,000,000
Structures				
Bridges	5 crossings		\$1,000,000	\$5,000,000
Other Structures	35 crossings		\$250,000	\$8,750,000
Toll Facilities	106.1 mi		\$1,000,000	\$106,100,000
Construction Total				\$955,670,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$300,000 /mi/yr		\$31,830,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	25 pcl		\$1,000,000 /mi	
Total Parcels	2653 pcl		\$25,000	\$172,412,500
Design				
Preliminary (30%)	2 %			\$19,113,400
Final (70%)	4 %			\$38,226,800
TOTAL COST				\$1,185,422,700

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TTC-35 - NEAR-TERM FACILITY

Austin Area
MoPac Relocation

Constructing / Reconstruction of double track to replace MOPAC freight use
Utilized as General Purpose Toll Lanes

Length	100 mi
ROW Width	600 ft
Tracks	2 trk
Environmental Status	Not begun
ROW Status	Not begun
Design Status	Not begun
Traffic	

Element	Number	Unit	Unit Price	Total
Utilities	100 mi		\$1,000,000	
Roadway	100 mi		\$2,000,000	
Interchanges				
Fully Directional	3 ea		\$60,000,000	
Three Level	3 ea		\$10,000,000	
Diamond	6 ea		\$4,000,000	
Structures				
Bridges	10 ea		\$1,000,000	
Other Structures	20 ea		\$250,000	
Toll Facilities	100 mi		\$1,000,000	
Construction Total				\$500,000,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$250,000 /mi/yr		\$25,000,000	
Maintenance	1.5% /yr of Rev.			
ROW Documents				
Parcels per mile	25 pcl		\$1,000,000 /mi	
Total Parcels	2500 pcl		\$25,000	\$162,500,000
Design				
Preliminary (30%)	2 %			\$10,000,000
Final (70%)	4 %			\$20,000,000
TOTAL COST				\$692,500,000

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TTC-35 - MID-TERM FACILITY
 IH 10 Expansion
 Seguin to San Antonio Southeast Connector

Constructing Ultimate Truck Lanes			
Utilized as General Purpose Toll Lanes		Mainlane	Frontage Rd.
Length		19.4 mi	0
ROW Width		450 ft	
Travel Lanes		8 ln	0
Environmental Status		Not begun	
ROW Status		Not begun	
Design Status		Not begun	
Traffic			
2010 Daily Toll Auto	VMT	@ Toll Rate:	
2010 Daily Toll Truck	VMT	@ Toll Rate:	
2025 Daily Toll Auto	VMT	@ Toll Rate:	
2025 Daily Toll Truck	933,780 VMT	@ Toll Rate:	

80%

Element	Number	Unit	Unit Price	Total
Utilities	19.4 mi		\$0	\$0
Roadway - Mainlane	19.4 mi		\$8,320,000	\$161,408,000
Roadway - Frontage Rd.	19.4 mi		\$0	\$0
Interchanges				
Five Level	0 ea		\$60,000,000	\$0
Three Level	1 ea		\$10,000,000	\$10,000,000
Diamond	10 ea		\$4,000,000	\$40,000,000
Structures				
Bridges	6 crossings		\$1,000,000	\$6,000,000
Other Structures	10 crossings		\$250,000	\$2,500,000
Toll Facilities	19.4 mi		\$1,000,000	\$19,400,000
Construction Total				\$239,308,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$300,000 /mi/yr		\$5,820,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	0 pcl		\$0 /mi	
Total Parcels	0 pcl		\$0	\$0
Design				
Preliminary (30%)	2 %			\$4,786,160
Final (70%)	4 %			\$9,572,320
TOTAL COST				\$253,666,480

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TTC-35 - MID-TERM FACILITY

Austin - SH 130
Segments 1 - 4

Constructing Ultimate Truck Lanes		
Utilized as General Purpose Toll Lanes	Mainlane	Frontage Rd.
Length	48 mi	0
ROW Width	450 ft	
Travel Lanes	4 ln	0
Environmental Status	Not begun	
ROW Status	Not begun	
Design Status	Not begun	
Traffic		
2010 Daily Toll Auto	VMT	@ Toll Rate:
2010 Daily Toll Truck	VMT	@ Toll Rate:
2025 Daily Toll Auto	VMT	@ Toll Rate:
2025 Daily Toll Truck	933,780 VMT	@ Toll Rate:

80%

Element	Number	Unit	Unit Price	Total
Utilities	48 mi		\$0	\$0
Roadway - Mainlane	48 mi		\$4,160,000	\$199,680,000
Roadway - Frontage Rd.	48 mi		\$0	\$0
Interchanges				
Five Level	0 ea		\$60,000,000	\$0
Three Level	0 ea		\$10,000,000	\$0
Diamond	0 ea		\$4,000,000	\$0
Structures				
Bridges	3 crossings		\$1,000,000	\$3,000,000
Other Structures	17 crossings		\$250,000	\$4,250,000
Toll Facilities	48 mi		\$1,000,000	\$48,000,000
Construction Total				\$254,930,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$300,000 /mi/yr		\$14,400,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	0 pcl		\$0 /mi	
Total Parcels	0 pcl		\$0	\$0
Design				
Preliminary (30%)	2 %			\$5,098,600
Final (70%)	4 %			\$10,197,200
TOTAL COST				\$270,225,800

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TTC-35 - LONG-TERM FACILITY
 Austin - San Antonio High Speed Rail
 Between Austin and San Antonio

Constructing Ultimate Rail Tracks Utilized as High Speed Rail Tracks	Mainlane	Frontage Rd.
Length	95 mi	0
ROW Width	1200 ft	
Travel Lanes	2 tracks	0
Environmental Status	Not begun	
ROW Status	Not begun	
Design Status	Not begun	
Traffic		

Element	Number	Unit	Unit Price	Total
Utilities	95 mi		\$1,000,000	
Roadway - Mainlane	95 mi		\$2,600,000	
Roadway - Frontage Rd.	95 mi		\$0	
Interchanges				
Five Level	0 ea		\$60,000,000	
Three Level	0 ea		\$10,000,000	
Diamond	0 ea		\$4,000,000	
Structures				
Bridges	3 crossings		\$1,000,000	
Other Structures	14 crossings		\$250,000	
Toll Facilities	95 mi		\$1,000,000	
Construction Total				\$950,000,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$300,000 /mi/yr		\$28,500,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	15 pcl		\$1,000,000 /mi	
Total Parcels	1425 pcl		\$25,000	\$130,625,000
Design				
Preliminary (30%)	2 %			\$19,000,000
Final (70%)	4 %			\$38,000,000
TOTAL COST				\$1,137,625,000

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TTC-35 - LONG-TERM FACILITY

Fort Worth Area - SE and NE Connector
Between IH 35 North of Hillsboro to IH 35 North of Denton

Constructing of current typical Section Utilized as General Purpose Toll Lanes	Mainlane	Frontage Rd.
Length	129 mi	0
ROW Width	1200 ft	
Travel Lanes	4 ln	0
Environmental Status	Approved ROD	
ROW Status	Not begun	
Design Status	Preliminary	
Traffic		

2025 Daily Toll Auto	4,314,307 VMT	@ Toll Rate: \$0.150
2025 Daily Toll Truck	398,105 VMT	@ Toll Rate: \$0.50

Element	Number	Unit	Unit Price	Total
Utilities	129 mi		\$1,000,000	\$129,000,000
Roadway - Mainlane	129 mi		\$5,200,000	\$670,800,000
Roadway - Frontage Rd.	129 mi		\$0	\$0
Interchanges				
Five Level	4 ea		\$60,000,000	\$240,000,000
Three Level	4 ea		\$10,000,000	\$40,000,000
Diamond	10 ea		\$4,000,000	\$40,000,000
Structures				
Bridges	5 ea		\$1,000,000	\$5,000,000
Other Structures	35 ea		\$250,000	\$8,750,000
Toll Facilities	129 mi		\$1,000,000	\$129,000,000
Construction Total				\$1,262,550,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$250,000 /mi/yr		\$32,250,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	25 pcl		\$1,000,000 /mi	
Total Parcels	3225 pcl		\$25,000	\$209,625,000
Design				
Preliminary (30%)	2 %			\$25,251,000
Final (70%)	4 %			\$50,502,000
TOTAL COST				\$1,547,928,000

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TTC-35 - LONG-TERM FACILITY
 Dallas - Austin Freight Rail
 Between Dallas and Relocated UP Tracks

Constructing Ultimate Rail Tracks		
Utilized as Freight Rail Tracks	Mainlane	Frontage Rd.
Length	217 mi	
ROW Width	1200 ft	
Travel Lanes	2 tracks	
Environmental Status	Not begun	
ROW Status	Not begun	
Design Status	Not begun	
Traffic		

Element	Number	Unit	Unit Price	Total
Utilities	217 mi		\$1,000,000	\$217,000,000
Roadway - Mainlane	217 mi		\$2,600,000	\$564,200,000
Roadway - Frontage Rd.	217 mi		\$0	\$0
Interchanges				
Five Level	0 ea		\$60,000,000	\$0
Three Level	0 ea		\$10,000,000	\$0
Diamond	0 ea		\$4,000,000	\$0
Structures				
Bridges	5 crossings		\$1,000,000	\$5,000,000
Other Structures	22 crossings		\$250,000	\$5,500,000
Toll Facilities	217 mi		\$1,000,000	\$217,000,000
Construction Total				\$1,008,700,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$50,000 /mi/yr		\$10,850,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	10 pcl		\$1,000,000 /mi	
Total Parcels	2170 pcl		\$25,000	\$271,250,000
Design				
Preliminary (30%)	2 %			\$20,174,000
Final (70%)	4 %			\$40,348,000
TOTAL COST				\$1,340,472,000

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TTC-35 - LONG-TERM FACILITY

Dallas - Austin High Speed Rail
Between Dallas and Austin

Constructing Ultimate Rail Tracks Utilized as High Speed Rail Tracks	Mainlane	Frontage Rd.
Length	217 mi	0
ROW Width	1200 ft	
Travel Lanes	2 tracks	0
Environmental Status	Not begun	
ROW Status	Not begun	
Design Status	Not begun	
Traffic		

Element	Number	Unit	Unit Price	Total
Utilities	217 mi		\$1,000,000	
Roadway - Mainlane	217 mi		\$2,600,000	
Roadway - Frontage Rd.	217 mi		\$0	
Interchanges				
Five Level	0 ea		\$60,000,000	
Three Level	0 ea		\$10,000,000	
Diamond	0 ea		\$4,000,000	
Structures				
Bridges	5 crossings		\$1,000,000	
Other Structures	22 crossings		\$250,000	
Toll Facilities	217 mi		\$1,000,000	
Construction Total				\$2,170,000,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$100,000 /mi/yr		\$21,700,000	
Maintenance	1.5% /yr of Rev.			
ROW Docs. & Purchase				
Parcels per mile	10 pcl		\$1,000,000 /mi	
Total Parcels	2170 pcl		\$25,000	\$271,250,000
Design				
Preliminary (30%)	2 %			\$43,400,000
Final (70%)	4 %			\$86,800,000
TOTAL COST				\$2,571,450,000

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TTC-35 - LONG-TERM FACILITY

San Antonio - Rio Grande Valley
Near US 281 Corridor

Constructing Ultimate Truck Lanes Utilized as General Purpose Toll Lanes	Mainlane	Frontage Rd.
Length	222 mi	
ROW Width	1200 ft	
Travel Lanes	4 ln	
Environmental Status	Draft EA for non-toll	
ROW Status	Not begun	
Design Status	Preliminary for non-toll	
Traffic		

2025 Daily Toll Auto	2,220,000	VMT	@ Toll Rate: \$0.15	\$333,000
2025 Daily Toll Truck	111,000	VMT	@ Toll Rate: \$0.50	<u>\$55,500</u>
				\$388,500

Element	Number	Unit	Unit Price	Total
Utilities	222 mi		\$1,000,000	
Roadway - Mainlane	222 mi		\$5,200,000	
Roadway - Frontage Rd.	222 mi		\$0	
Interchanges				
Five Level	3 ea		\$60,000,000	
Three Level	2 ea		\$10,000,000	
Diamond	14 ea		\$4,000,000	
Structures				
Bridges	6 ea		\$1,000,000	
Other Structures	27 ea		\$250,000	
Toll Facilities	222 mi		\$1,000,000	
Construction Total				\$1,867,150,000
Operation (Admin.)	\$3,000,000 /yr		\$3,000,000	
Operation	\$250,000 /mi/yr		\$55,500,000	
Maintenance	1.5% /yr of Rev.			
ROW Documents				
Parcels per mile	5 pcl		\$1,000,000 /mi	
Total Parcels	1110 pcl		\$25,000	\$249,750,000
Design				
Preliminary (30%)	2 %			\$37,343,000
Final (70%)	4 %			\$74,686,000
TOTAL COST				\$2,228,929,000

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ESTIMATE FOR - SH 130 Segment 5

4 lane divided with 3 lane frontage roads

LIMITS	STATION	
BEGIN: XXX	2938+00	3700+84
END: XXX	3376+00	3852+45
TOTAL LENGTH OF SEGMENT (miles)=	11.17	
AVERAGE R.O.W. WIDTH (ft)	570	

	Pavement Structures		
	Main Lanes	Frontage Roads	Ramps
Conc. (in)			
ACP (in)	9	6	9
Flex Base (in)	18	18	18
LTSG (in)	6	6	6

Typical Sections

	Lanes/Direction	Lane Width (ft)	I/S Shldrs (ft)	Rdwy Width (ft)	O/S Shldrs (ft)
Main Lanes	2	12	10	24	10
Frontage Roads	3	12	4	36	8
Ramps	1	14	4	14	6
Main Lane Bridges	3	12	10	36	10
Direct Connect (Single Lane Only)	1	14	8	14	8

COST TO: DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST
ROADWAY IMPROVEMENTS				
Prep Row	STA	438	\$2,300.00	\$1,007,400
Excavation - ML	CY	940,000	\$5.00	\$4,700,000
Embankment - ML	CY	4,140,000	\$5.00	\$20,700,000
Excavation - FR	CY	0	\$5.00	\$0
Embankment - FR	CY	0	\$5.00	\$0
Pavement - ML (Conc.)	SY	0	\$30.00	\$0
Pavement - Ramps (Conc.)	SY	0	\$30.00	\$0
ACP - ML	TON	269,396	\$35.00	\$9,428,857
ACP - Ramps	TON	18,714	\$35.00	\$654,984
Flexible Base - ML	CY	296,182	\$16.75	\$4,961,046
Flexible Base - Ramps	CY	22,003	\$16.75	\$368,556
Lime Treated Subgrade - ML	SY	592,364	\$1.00	\$592,364
Lime - ML	TON	7,997	\$90.00	\$719,722
Lime Treated Subgrade - Ramps	SY	44,007	\$1.00	\$44,007
Lime - Ramps	TON	594	\$90.00	\$53,468
Pavement - Frontage Roads (ACP)	TON	210,345	\$35.00	\$7,362,090
Flexible Base - Frontage Roads	CY	345,143	\$16.75	\$5,781,147
Lime Treated Subgrade - FR	SY	690,286	\$1.00	\$690,286
Lime - FR	TON	9,319	\$90.00	\$838,698
Pavement - Cross Street (ACP)	TON	28,493	\$35.00	\$997,249
Flexible Base - Cross Street	CY	43,073	\$16.75	\$721,474
Lime Treated Subgrade - Cross Street	SY	86,146	\$1.00	\$86,146
Lime - Cross Street	TON	1,163	\$90.00	\$104,668
Drainage - Culverts	LF	22,515	\$250.00	\$5,628,750
Drainage - Culverts -Cross Streets	LF	0	\$250.00	\$0
Drainage-SS, F.R./Cross Streets	LF	141,723	\$75.00	\$10,629,196
Striping	LF	603,944	\$0.24	\$144,947
Striping - RPM	EA	8,850	\$2.95	\$26,106
Striping - Intersections	EA	12	\$800.00	\$9,600
Sign/Signal/Illum.		1	\$1,983,643.05	\$1,983,643
Corridor Enhancement 3%	LS	1	\$2,347,032.09	\$2,347,032
Miscellaneous 10%	LS	1	\$8,058,143.50	\$8,058,143
SUB-TOTAL FOR ROADWAY IMPROVEMENTS =				\$88,639,578

TOLL COLLECTION SYSTEMS				
Barrier Toll Plaza	LANE	0	\$300,000.00	\$0
Ramp Plaza	EA		\$760,000.00	\$0
Toll Collection Equipment	LANE	0	\$90,000.00	\$0
SUB-TOTAL FOR TOLL COLLECTION SYSTEMS =				\$0

STRUCTURE IMPROVEMENTS				
ML Bridge	SF	397,484	\$45.00	\$17,886,800
FR Bridge	SF	107,276	\$45.00	\$4,827,427
Ramp Bridge	SF	0	\$45.00	\$0
Cross Street Bridge	SF	0	\$45.00	\$0
Direct Connectors	SF	0	\$75.00	\$0
Retaining Walls	SF	0	\$30.00	\$0
SUB-TOTAL FOR STRUCTURE IMPROVEMENTS =				\$22,714,227

	% of cost	
Mobilization	7%	\$7,794,766
TOTAL CONSTRUCTION COST =		\$119,149,000

	0%	\$0
TOTAL CONSTRUCTION COST INCLUDING E&C =		\$119,149,000

Right-of-Way Cost Projected	Purchase	MILE	11	\$2,288,000.00	\$25,556,960
	Doc. (10/mile)	PARCEL-MILE	112	\$25,000.00	\$2,792,500
Utility Adjustments		MILE	11.17	\$1,000,000.00	\$11,167,000
TOTAL PROJECT COST =					\$155,873,000

Average Construction Cost Per Mile	\$10,670,000
Average ROW Cost Per Mile	\$2,289,000

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4	14	6	24	0	0	0	0	0	0	0	0.00	0.00					
Total										0	18713.835	22003.33	44006.6667	594.09	Total	14145	14145

Frontage Roads

Direction	From Station	To Station	length (ft)	Width (ft) In. Shldr	Base Lns	Addl Lns	Out Shldr	Total	area (sqft)	CONC. area (sy)	ACP vol (ton)	FLX BASE vol (cy)	LTSG area (sy)	Lime ton	No. of Lanes	4" SLD White	4" Brk White	4" SLD Yellow	RPM TY II-C-R
SB	2938+00.00	3376+65.17	43865.17	4	36		8	48	210528.16	0	77378.15988	126721.6	253443.204	3421.4833	3	43865.17	21932.585	43865.17	2193.2585
	0011+14.10	0101+00.00	8985.90	4	36		8	48	431323.2	0	15851.1276	25959.27	51918.5333	700.9002	3	8985.90	4492.95	8985.90	449.295
	0111+83.04	0161+89.70	5006.66	4	36		8	48	240319.68	0	8831.74824	14463.68	28927.3689	390.51948	3	5006.66	2503.33	5006.66	250.333
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
NB	2938+00.00	3375+53.54	43753.54	4	36		8	48	2100169.92	0	77181.24456	126399.1	252798.231	3412.7761	3	43753.54	21876.77	43753.54	2187.677
	0010+68.74	0099+46.48	8877.74	4	36		8	48	426131.52	0	15660.33336	25646.8	51293.6089	692.46372	3	8877.74	4438.87	8877.74	443.887
	0110+98.36	0163+31.96	5233.60	4	36		8	48	251212.8	0	9232.0704	15119.29	30238.5778	408.2208	3	5233.60	2616.8	5233.60	261.68
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
			0.00	4	36		8	48	0	0	0	0	0	0	3	0.00	0	0.00	0
Total										0	204134.684	334309.8	668619.524	9026.3636	Total	115722.61	57861.305	115722.61	5786.1305

Frontage Roads Turnarounds

Location	From Station	To Station	length (ft)	Width (ft) In. Shldr	Base Lns	Addl Lns	Out Shldr	Total	area (sqft)	CONC. area (sy)	ACP vol (ton)	FLX BASE vol (cy)	LTSG area (sy)	Lime ton	No. of Lanes	4" SLD White	4" SLD Yellow
Laws Rd			1000	0	26	0	0	26	26000	0	955.5	1666.667	3333.33333	45	2.166666667	1000.00	1000.00
CR 176			1000	0	26	0	0	26	26000	0	955.5	1666.667	3333.33333	45	2.166666667	1000.00	1000.00
SH 21			1200	0	26	0	0	26	31200	0	1146.6	2000	4000	54	2.166666667	1200.00	1200.00
CR 179			1300	0	26	0	0	26	33800	0	1242.15	2166.667	4333.33333	58.5	2.166666667	1300.00	1300.00
CR 222			1000	0	26	0	0	26	26000	0	955.5	1666.667	3333.33333	45	2.166666667	1000.00	1000.00
FM 1185			1000	0	26	0	0	26	26000	0	955.5	1666.667	3333.33333	45	2.166666667	1000.00	1000.00
Plum Creek			1200	0	26	0	0	26	31200	0	1146.6	2000	4000	54	2.166666667	1200.00	1200.00
Total										0	6210.75	10833.33	21666.6667	292.5	Total	7700	7700

Cross Streets

Location	area (sqft)	CONC. area (sy)	ACP vol (ton)	FLX BASE vol (cy)	LTSG area (sy)	Lime ton					
Laws Rd.	147765.00	0	5430.36	8209.166667	16418.3333	221.6475					
CR 176	134155.00	0	4930.20	7453.055556	14906.1111	201.2325					
SH 21	146895.00	0	5398.39	8160.833333	16321.6667	220.3425					
CR 179	111620.00	0	4102.04	6201.111111	12402.2222	167.43					
CR 222	117920.00	0	4333.56	6551.111111	13102.2222	176.88					
FM 1185	116960.00	0	4298.28	6497.777778	12995.5556	175.44					
	0	0	0.00	0	0	0					
Total							0	28492.82625	43073.05556	86146.1111	1162.973

Subtract underpass bridge area

Retaining Walls

Location	From	To	Length	Height	Area
<u>F.R.</u>				0.00	0
				0.00	0
				0.00	0
<u>Main Lane</u>				0.00	0
				0.00	0
Total					0

Bridges

Main Lanes										Bridge Striping						
Location	Direction	From Station	To Station	length (ft)	Width (ft) In. Shldr	Base Lns	Addl Lns	Out Shldr	Rail	Total	area (sqft)	4" SLD No. of Lanes White	4" Brk White	4" SLD Yellow	RPM TY II-C-R	
Laws Rd	SB	2983+08.02	2986+28.02	320.00	10	36		10	2	58	18560	3	320.00	160	320.00	16
CR 176	SB	3027+39.02	3030+59.02	320.00	10	36		10	2	58	18560	3	320.00	160	320.00	16
SH 21	SB	3086+79.25	3090+08.46	329.21	10	36		10	2	58	19094.18	3	329.21	164.605	329.21	16.4605
CR 179	SB	3168+38.50	3173+11.55	473.05	10	36		10	2	58	27436.9	3	473.05	236.525	473.05	23.6525
CR 222	SB	3307+69.21	3310+89.20	319.99	10	36		10	2	58	18559.42	3	319.99	159.995	319.99	15.9995
FM 1185	SB	3369+53.48	3372+73.08	319.60	10	36		10	2	58	18536.8	3	319.60	159.8	319.60	15.98
Plum Creek	SB	3789+45.34	3802+89.22	1343.88	10	36		10	2	58	77945.04	3	1343.88	671.94	1343.88	67.194
				0.00	10	36		10	2	58	0	3	0.00	0	0.00	0
				0.00	10	36		10	2	58	0	3	0.00	0	0.00	0
				0.00	10	36		10	2	58	0	3	0.00	0	0.00	0
				0.00	10	36		10	2	58	0	3	0.00	0	0.00	0

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SH 21		2		
CR 179		2		
CR 222		2		
FM 1185		2		
Total		12	\$ 100,000	\$ 1,200,000

Illumination

	Length (mi)	Lights/mi	Unit cost	Total Cost
Main Lanes	11.17	20	\$ 1,950	\$ 435,506
	No.	Lights/ramp	Unit cost	Total Cost
Ramps	16	4	\$ 1,950	\$ 124,800

Signing

	Miles	Cost/Mile	Total
Signing	11.17	\$ 20,000	\$ 223,337
		Total	\$ 223,337

Drainage

Culverts
Main Lane

Str No.	Location	Size	# of Barrels	Length	Total Length
	2990+00	10' x 5' BC	6	570.00	3,420.00
	3015+00	10' x 4' BC	4	880.00	3,520.00
	3040+00	3' x 2' BC	1	570.00	570.00
	3085+00	3' x 2' BC	1	910.00	910.00
	3098+00	5' x 2' BC	1	550.00	550.00
	3112+50	3' x 2' BC	1	570.00	570.00
	3125+00	3' x 1.5' BC	1	580.00	580.00
	3139+30	3' x 2' BC	1	560.00	560.00
	3148+00	4' x 2' BC	1	560.00	560.00
	3166+25	3' x 2' BC	1	640.00	640.00
	3175+60	3' x 2' BC	1	760.00	760.00
	3195+00	10' x 5' BC	4	735.00	2,940.00
	3203+50	3' x 2' BC	1	670.00	670.00
	3219+30	3' x 2' BC	1	610.00	610.00
	3240+25	10' x 6' BC	3	570.00	1,710.00
	3248+50	4' x 3' BC	1	570.00	570.00
	3274+30	4' x 3' BC	1	560.00	560.00
	3301+20	5' x 1.5' BC	1	585.00	585.00
	3328+50	3' x 3' BC	1	560.00	560.00
	3339+10	5' x 4' BC	1	560.00	560.00
	3349+50	4' x 2' BC	1	560.00	560.00
	3368+25	5' x 1.5' BC	1	550.00	550.00
					0.00
					0.00
					0.00
					0.00
					0.00
Total					22,515.00

Culverts
Cross Street

Str No.	Location	Size	Barrels	Length	Total Length
					0.00
					0.00
					0.00
					0.00
Total					0.00

SS

Cross Streets	Length (ft)	26000.00
Frontage Roads	Length (ft)	115722.61

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ESTIMATE FOR - SH 130 Segment 6

(Enter general description, I.e. # of lanes, etc.)

LIMITS	STATION	
BEGIN:	3815+70	
END:	5351+87	NOTE: THIS SEGMENT CONTAINS 3 STATION EQUATIONS. "FAKED" THE EN
TOTAL LENGTH OF SEGMENT (miles)=	29.09	FOR ACTUAL LENGTH OF SEGMENT CALCULATIONS: BEGINNING STATION
AVERAGE R.O.W. WIDTH (ft)	1200	

	Pavement Structures		
	Main Lanes	Frontage Roads	Ramps
Conc. (in)			
ACP (in)	9	6	9
Flex Base (in)	18	18	18
LTSG (in)	6	6	6

Typical Sections

	Lanes/Direction	Lane Width (ft)	I/S Shldrs (ft)	Rdwy Width (ft)	O/S Shldrs (ft)
Main Lanes	2	12	10	24	10
Frontage Roads	3	12	4	36	8
Ramps	1	14	4	14	6
Main Lane Bridges	3	12	10	36	10
Direct Connect (Single Lane Only)	1	14	8	14	8

COST TO: DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	
ROADWAY IMPROVEMENTS					
Prep Row	STA	1,536	\$2,300.00	\$3,533,186	
Excavation - ML	CY	7,000,000	\$5.00	\$35,000,000	
Embankment - ML	CY	16,400,000	\$5.00	\$82,000,000	
Excavation - FR	CY	0	\$5.00	\$0	
Embankment - FR	CY	0	\$5.00	\$0	
Pavement - ML (Conc.)	SY	0	\$30.00	\$0	
Pavement - Ramps (Conc.)	SY	0	\$30.00	\$0	
ACP - ML	TON	679,859	\$35.00	\$23,795,048	
ACP - Ramps	TON	108,099	\$35.00	\$3,783,462	
Flexible Base - ML	CY	747,457	\$16.75	\$12,519,898	
Flexible Base - Ramps	CY	124,362	\$16.75	\$2,083,057	
Lime Treated Subgrade - ML	SY	1,494,913	\$1.00	\$1,494,913	
Lime - ML	TON	20,181	\$90.00	\$1,816,320	
Lime Treated Subgrade - Ramps	SY	248,723	\$1.00	\$248,723	
Lime - Ramps	TON	3,358	\$90.00	\$302,199	
Pavement - Frontage Roads (ACP)	TON	96,594	\$35.00	\$3,380,792	
Flexible Base - Frontage Roads	CY	158,441	\$16.75	\$2,653,879	
Lime Treated Subgrade - FR	SY	316,881	\$1.00	\$316,881	
Lime - FR	TON	4,278	\$90.00	\$385,011	
Pavement - Cross Street (ACP)	TON	32,540	\$35.00	\$1,138,911	
Flexible Base - Cross Street	CY	49,192	\$16.75	\$823,961	
Lime Treated Subgrade - Cross Street	SY	98,383	\$1.00	\$98,383	
Lime - Cross Street	TON	1,328	\$90.00	\$119,536	
Drainage - Culverts	LF	17,790	\$250.00	\$4,447,500	
Drainage - Culverts -Cross Streets	LF	0	\$250.00	\$0	
Drainage-SS, F.R./Cross Streets	LF	55,880	\$75.00	\$4,191,000	
Striping	LF	952,642	\$0.24	\$228,634	
Striping - RPM	EA	10,499	\$2.95	\$30,972	
Striping - Intersections	EA	12	\$800.00	\$9,600	
Sign/Signal/Illum.	1	\$3,010,151.36		\$3,010,151	
Corridor Enhancement 3%	LS	1	\$5,622,360.58	\$5,622,361	
Miscellaneous 10%	LS	1	\$19,303,437.99	\$19,303,438	
SUB-TOTAL FOR ROADWAY IMPROVEMENTS =				\$212,337,818	
TOLL COLLECTION SYSTEMS					
Barrier Toll Plaza	LANE	12	\$300,000.00	\$3,600,000	
Ramp Plaza	EA	12	\$760,000.00	\$9,120,000	
Toll Collection Equipment	LANE	4	\$90,000.00	\$360,000	
SUB-TOTAL FOR TOLL COLLECTION SYSTEMS =				\$13,080,000	
STRUCTURE IMPROVEMENTS					
ML Bridge	SF	801,513	\$45.00	\$36,068,085	
FR Bridge	SF	0	\$45.00	\$0	
Ramp Bridge	SF	0	\$45.00	\$0	
Cross Street Bridge	SF	153,619	\$45.00	\$6,912,855	
Direct Connectors	SF	206,115	\$75.00	\$15,458,625	
Retaining Walls	SF	21,000	\$30.00	\$630,000	
SUB-TOTAL FOR STRUCTURE IMPROVEMENTS =				\$59,069,565	
% of cost					
Mobilization			7%	\$19,914,117	
TOTAL CONSTRUCTION COST =				\$291,321,000	
Engineering and Contingencies			0%	\$0	
TOTAL CONSTRUCTION COST INCLUDING E&C =				\$291,321,000	
Right-of-Way Cost Projected	Purchase	MILE	29	\$2,288,000.00	\$66,557,920
	Doc. (10/mile)	PARCEL-MILE	291	\$25,000.00	\$7,272,500
Utility Adjustments		MILE	29.09	\$1,000,000.00	\$29,094,000
TOTAL PROJECT COST =				\$386,973,000	
Average Construction Cost Per Mile				\$10,013,000	
Average ROW Cost Per Mile				\$2,288,000	

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Pavement

Main Lanes

unit weight for acp = 147 lbs/ft³

Lime (Dry) 6 lbs/ft³

Pavement Striping

Direction	From Station	To Station	length (ft)	Width (ft)		Base Lns	Addl Lns	Out Shldr	Total	area (sqft)	CONC. area (sy)	ACP vol (ton)	FLX BASE vol (cy)	LTSG area (sy)	Lime ton	Pavement Striping					
				In. Shldr	Out Shldr											No. of Lane White	4" SLD White	4" Brk White	4" SLD Yellow	RPM TY II-C-R	
SB	3815+70.00	3836+54.38	2084.38	10	10	24		10	44	91712.72	0	5055.66369	5558.347	11116.69	150.0754	2	2084.38	521.095	2084.38	52.1095	
	3838+28.81	3920+12.53	8183.72	10	10	24		10	44	360083.68	0	19849.61286	21823.25	43646.51	589.2278	2	8183.72	2045.93	8183.72	204.593	
	3923+03.78	3954+25.86	3122.08	10	10	24		10	44	137371.52	0	7572.60504	8325.547	16651.09	224.7898	2	3122.08	780.52	3122.08	78.052	
	3956+67.31	3975+19.61	1852.30	10	10	24		10	44	81501.2	0	4492.75365	4939.467	9878.933	133.3656	2	1852.30	463.075	1852.30	46.3075	
	3976+35.97	3990+10.47	1374.50	10	10	24		10	44	60478	0	3333.84975	3665.333	7330.667	98.964	2	1374.50	343.625	1374.50	34.3625	
	3992+65.15	4052+76.63	6011.48	10	10	24		10	44	264505.12	0	14580.84474	16030.61	32061.23	432.8266	2	6011.48	1502.87	6011.48	150.287	
	4055+04.98	4090+47.24	3542.26	10	10	24		10	44	155859.44	0	8591.75163	9446.027	18892.05	255.0427	2	3542.26	885.565	3542.26	88.5565	
	4096+33.28	4243+00.00	129.65	10	10	24		10	44	5704.6	0	314.466075	345.7333	691.4667	9.3348	2	129.65	32.4125	129.65	3.24125	
	4245+00.00	4256+75.00	1175.00	10	10	24		10	44	51700	0	2849.9625	3133.333	6266.667	84.6	2	1175.00	293.75	1175.00	29.375	
	4258+25.00	4408+59.06	15034.06	10	10	24		10	44	661498.64	0	36465.11253	40090.83	80181.65	1082.452	2	15034.06	3758.515	15034.06	375.8515	
	4410+13.33	4507+26.90	9713.57	10	10	24		10	44	427397.08	0	23560.26404	25902.85	51805.71	699.377	2	9713.57	2428.3925	9713.57	242.83925	
	4509+43.38	4546+14.90	3671.52	10	10	24		10	44	161546.88	0	8905.27176	9790.72	19581.44	264.3494	2	3671.52	917.88	3671.52	91.788	
	4559+69.04	4657+30.55	9761.51	10	10	24		10	44	429506.44	0	23676.54251	26030.69	52061.39	702.8287	2	9761.51	2440.3775	9761.51	244.03775	
	4659+07.83	4778+60.26	11952.43	10	10	24		10	44	525906.92	0	28990.61897	31873.15	63746.29	860.575	2	11952.43	2988.1075	11952.43	298.81075	
	4785+79.12	4800+67.51	1488.39	10	10	24		10	44	65489.16	0	3610.089945	3969.04	7938.08	107.1641	2	1488.39	372.0975	1488.39	37.20975	
	STATION EQUATION (BK)	4803+52.51	4806+78.02	325.51	10	10	24		10	14322.44	0	789.524505	868.0267	1736.053	23.43672	2	325.51	81.3775	325.51	81.3775	
	STATION EQUATION (AHD)	4806+00.00	4859+29.54	5329.54	10	10	24		10	234499.76	0	12926.79927	14212.11	28424.21	383.7269	2	5329.54	1332.385	5329.54	133.2385	
		4861+22.72	5062+42.17	20119.45	10	10	24		10	885255.8	0	48799.72598	53651.87	107303.7	1448.6	2	20119.45	5029.8625	20119.45	502.98625	
		5063+42.17	5240+30.46	17688.29	10	10	24		10	778284.76	0	42902.9474	47168.77	94337.55	1273.557	2	17688.29	4422.0725	17688.29	442.20725	
		5243+66.70	5256+22.60	1255.90	10	10	24		10	55259.6	0	3046.18545	3349.067	6698.133	90.4248	2	1255.90	313.975	1255.90	31.3975	
		5257+72.60	5294+55.41	3682.81	10	10	24		10	162043.64	0	8932.655655	9820.827	19641.65	265.1623	2	3682.81	920.7025	3682.81	92.07025	
	STATION EQUATION (BK)	5296+05.41	5309+07.06	1301.65	10	10	24		10	57272.6	0	3157.152075	3471.067	6942.133	93.7188	2	1301.65	325.4125	1301.65	32.54125	
	STATION EQUATION (BK)	5314+07.35	5335+00.00	2092.65	10	10	24		10	92076.6	0	5075.722575	5580.4	11160.8	150.6708	2	2092.65	523.1625	2092.65	52.31625	
	STATION EQUATION (AHD)	0235+00.00	0252+37.70	1737.70	10	10	24		10	76458.8	0	4214.79135	4633.867	9267.733	125.1144	2	1737.70	434.425	1737.70	43.4425	
				0.00	10	10	24		10	0	0	0	0	0	0	2	0.00	0	0.00	0	
				0.00	10	10	24		10	0	0	0	0	0	0	2	0.00	0	0.00	0	
				0.00	10	10	24		10	0	0	0	0	0	0	2	0.00	0	0.00	0	
	NB	3815+70.00	3837+48.76	2178.76	10	10	24		10	44	95865.44	0	5284.58238	5810.027	11620.05	156.8707	2	2178.76	544.69	2178.76	54.469
		3838+96.83	3920+86.43	8189.60	10	10	24		10	44	360342.4	0	19863.8748	21838.93	43677.87	589.6512	2	8189.60	2047.4	8189.60	204.74
		3923+87.24	3954+42.08	3054.84	10	10	24		10	44	134412.96	0	7409.51442	8146.24	16292.48	219.9485	2	3054.84	763.71	3054.84	76.371
		3956+83.52	3974+08.58	1725.06	10	10	24		10	44	75902.64	0	4184.13303	4600.16	9200.32	124.2043	2	1725.06	431.265	1725.06	43.1265
		3977+34.30	3989+94.81	1260.51	10	10	24		10	44	55462.44	0	3057.367005	3361.36	6722.72	90.75672	2	1260.51	315.1275	1260.51	31.51275
		3992+59.51	4052+60.85	6001.34	10	10	24		10	44	264058.96	0	14556.25017	16003.57	32007.15	432.0965	2	6001.34	1500.335	6001.34	150.0335
		4054+78.97	4097+48.20	4269.23	10	10	24		10	44	187846.12	0	10355.01737	11384.61	22769.23	307.3846	2	4269.23	1067.3075	4269.23	106.73075
		4097+62.93	4244+70.52	14707.59	10	10	24		10	44	647133.96	0	35673.25955	39220.24	78440.48	1058.946	2	14707.59	3676.8975	14707.59	367.68975
		4246+09.09	4256+75.00	1065.91	10	10	24		10	44	46900.04	0	2585.364705	2842.427	5684.853	76.74552	2	1065.91	266.4775	1065.91	26.64775
		4258+25.00	4408+19.44	14994.44	10	10	24		10	44	659755.36	0	36369.01422	39985.17	79970.35	1079.6	2	14994.44	3748.61	14994.44	374.861
		4409+73.70	4507+87.80	9814.10	10	10	24		10	44	431820.4	0	23804.09955	26170.93	52341.87	706.6152	2	9814.10	2453.525	9814.10	245.3525
	4510+04.30	4546+48.85	3644.55	10	10	24		10	44	160360.2	0	8839.856025	9718.8	19437.6	262.4076	2	3644.55	911.1375	3644.55	91.1375	
	4558+72.83	4659+31.50	10058.67	10	10	24		10	44	442581.48	0	24397.30409	26823.12	53646.24	724.2242	2	10058.67	2514.6675	10058.67	251.46675	
	4661+08.79	4778+04.27	11695.48	10	10	24		10	44	514601.12	0	28367.38674	31187.95	62375.89	842.0746	2	11695.48	2923.87	11695.48	292.387	
STATION EQUATION (BK)	4785+21.68	4800+67.51	1545.83	10	10	24		10	44	68016.52	0	3749.410665	4122.213	8244.427	111.2998	2	1545.83	386.4575	1545.83	38.64575	
STATION EQUATION (AHD)	4803+52.51	4806+78.02	325.51	10	10	24		10	44	14322.44	0	789.524505	868.0267	1736.053	23.43672	2	325.51	81.3775	325.51	81.3775	
	4806+00.00	4859+91.62	5391.62	10	10	24		10	44	237231.28	0	13077.37431	14377.65	28755.31	388.1966	2	5391.62	1347.905	5391.62	134.7905	
	4862+03.91	5060+07.90	19803.99	10	10	24		10	44	871375.56	0	48034.57775	52810.64	105621.3	1425.887	2	19803.99	4950.9975	19803.99	495.09975	
	5061+07.90	5239+19.86	17811.96	10	10	24		10	44	783726.24	0	43202.90898	47498.56	94997.12	1282.461	2	17811.96	4452.99	17811.96	445.299	
	5242+27.22	5253+87.81	1160.59	10	10	24		10	44	51065.96	0	2815.011045	3094.907	6189.813	83.56248	2	1160.59	290.1475	1160.59	29.01475	
	5255+37.81	5293+08.37	3770.56	10	10	24		10	44	165904.64	0	9145.49328	10054.83	20109.65	271.4803	2	3770.56	942.64	3770.56	94.264	
	5294+58.37	5305+47.40	1089.03	10	10	24		10	44	47917.32	0	2641.442265	2904.08	5808.16	78.41016	2	1089.03	272.2575	1089.03	27.22575	
STATION EQUATION (BK)	5308+74.63	5335+00.00	2625.37	10	10	24		10	44	115516.28	0	6367.834935	7000.987	14001.97	189.0266	2	2625.37	656.3425	2625.37	65.63425	
STATION EQUATION (AHD)	0835+																				

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NB	0	8	14	8	30	19935	0.00	0.00
	0	8	14	8	30	0	0.00	0.00
	0	8	14	8	30	0	0.00	0.00
Total					206115	Total	4540	4540

Ramps

Name	Location	From Station	To Station	length (ft)	Width (ft)		Base Lns	Out Shldr	Total	Add Plz area (sqft)	Total area (sqft)	Assumes 1-In Only 4" SLD		
					In. Shldr	White						4" SLD Yellow		
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
				0.00	4		14	6	24		0	0.00	0.00	
Total										0		Total	0	0

Frontage Roads

Location	Direction	From Station	To Station	length (ft)	Width (ft)		Base Lns	Add Lns	Out Shldr	Rail	Total area (sqft)	4" SLD White	4" Brk White	4" SLD Yellow	RPM TY II-C-R	
					In. Shldr	White						White	Yellow	TY II-C-R		
	SB US 183 CONN			0.00	4		36		8		48	5427	0.00	0	0.00	0
	UPRR			0.00	4		36		8		48	11604	0.00	0	0.00	0
	UPRR			0.00	4		36		8		48	11234	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
				0.00	4		36		8		48	0	0.00	0	0.00	0
Total											0		Total	0	0	0

Cross Streets

Location	Direction	From Station	To Station	length (ft)	Width (ft)		Base Lns	Add Lns	Out Shldr	Total area (sqft)	Assumes 1-In Only 4" SLD			
					In. Shldr	White					4" SLD Yellow			
CR108				0						0	17364	0.00	0.00	
CR218S				0						0	11045	0.00	0.00	
CR109				0						0	17657	0.00	0.00	
SH80				0						0	27303	0.00	0.00	
FM621				0						0	19932	0.00	0.00	
CR242				0						0	14324	0.00	0.00	
CR241				0						0	10818	0.00	0.00	
FM20				0						0	25331	0.00	0.00	
CR119				0						0	9845	0.00	0.00	
				0						0	0	0.00	0.00	
				0						0	0	0.00	0.00	
				0						0	0	0.00	0.00	
				0						0	0	0.00	0.00	
				0						0	0	0.00	0.00	
				0						0	0	0.00	0.00	
				0						0	0	0.00	0.00	
Total											153619	Total	0	0

Signing, Illumination, Signals

Signals

Location	# of intersections	Unit cost	Total Cost
	12		
Total	12	\$ 100,000	\$ 1,200,000

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ESTIMATE FOR DALLAS AREA SOUTHEAST CONNECTOR FOUR MAINLANE TRUCK-DEDICATED LANES

LIMITS STATION
 BEGIN: XXX 100+00
 END: XXX 3142+99
 TOTAL LENGTH OF SEGMENT (miles)= 57.63
 AVERAGE R.O.W. WIDTH (ft) 1200

	Pavement Structures		
	Main Lanes	Frontage Roads	Ramps
Conc. (in)	0	0	0
ACP (in)	9	6	9
Flex Base (in)	18	18	18
LTSG (in)	6	6	6

Typical Sections

	Lanes/Direction	Lane Width (ft)	I/S Shldrs (ft)	Rdwy Width (ft)	O/S Shldrs (ft)
Main Lanes	2	13	10	26	10
Frontage Roads	0	12	4	0	8
Ramps	1	14	4	14	6
Main Lane Bridges	2	13	10	26	10
Direct Connect (Single Lane Only)	1	14	8	14	8

COST TO:	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	
ROADWAY IMPROVEMENTS						
	Prep Row	STA	3,043	\$2,300.00	\$6,998,877	
	Excavation - ML	CY	4,837,206	\$5.00	\$24,186,030	
	Embankment - ML	CY	2,771,802	\$5.00	\$13,859,010	
	Excavation - Cross Street	CY	0	\$5.00	\$0	
	Embankment - Cross Street	CY	500,000	\$5.00	\$2,500,000	
	Pavement - ML (Conc.)	SY	0	\$30.00	\$0	
	Pavement - Ramps (Conc.)	SY	0	\$30.00	\$0	
	ACP - ML	TON	1,543,252	\$35.00	\$54,013,833	
	ACP - Ramps	TON	201,427	\$35.00	\$7,049,936	
	Flexible Base - ML	CY	1,690,550	\$16.75	\$28,316,713	
	Flexible Base - Ramps	CY	231,544	\$16.75	\$3,878,369	
	Lime Treated Subgrade - ML	SY	3,381,100	\$1.00	\$3,381,100	
	Lime - ML	TON	45,645	\$90.00	\$4,108,037	
	Lime Treated Subgrade - Ramps	SY	463,089	\$1.00	\$463,089	
	Lime - Ramps	TON	6,252	\$90.00	\$562,653	
	Pavement - Frontage Roads (ACP)	TON	6,946	\$35.00	\$243,101	
	Flexible Base - Frontage Roads	CY	12,600	\$16.75	\$211,050	
	Lime Treated Subgrade - FR	SY	25,200	\$1.00	\$25,200	
	Lime - FR	TON	340	\$90.00	\$30,618	
	Pavement - Cross Street (ACP)	TON	23,691	\$35.00	\$829,168	
	Flexible Base - Cross Street	CY	35,813	\$16.75	\$599,873	
	Lime Treated Subgrade - Cross Street	SY	71,627	\$1.00	\$71,627	
	Lime - Cross Street	TON	967	\$90.00	\$87,026	
	Drainage - Culverts	LF	22,800	\$250.00	\$5,700,000	
	Drainage - Culverts -Cross Streets	LF	0	\$250.00	\$0	
	Drainage-SS, F.R./Cross Streets	LF	4,160	\$75.00	\$312,000	
	Striping	LF	1,933,950	\$0.24	\$464,148	
	Striping - RPM	EA	15,879	\$2.95	\$46,843	
	Striping - Intersections	EA	13	\$1,000.00	\$13,000	
	Sign/Signal/Illum.	1	1	\$3,905,910.80	\$3,905,911	
	Corridor Enhancement 3%	LS	1	\$4,855,716.38	\$4,855,716	
	Miscellaneous 10%	LS	1	\$16,671,292.89	\$16,671,293	
	SUB-TOTAL FOR ROADWAY IMPROVEMENTS =				\$183,384,222	
TOLL COLLECTION SYSTEMS						
	Barrier Toll Plaza	LANE	16	\$300,000.00	\$4,800,000	
	Ramp Plaza	EA	26	\$760,000.00	\$19,760,000	
	Toll Collection Equipment	LANE	94	\$90,000.00	\$8,460,000	
	SUB-TOTAL FOR TOLL COLLECTION SYSTEMS =				\$33,020,000	
STRUCTURE IMPROVEMENTS						
	ML Bridge	SF	1,274,976	\$45.00	\$57,373,920	
	FR Bridge	SF	0	\$45.00	\$0	
	Ramp Bridge	SF	0	\$45.00	\$0	
	Cross Street Bridge	SF	428,400	\$45.00	\$19,278,000	
	Direct Connectors	SF	2,856,000	\$75.00	\$214,200,000	
	Retaining Walls	SF	0	\$30.00	\$0	
	SUB-TOTAL FOR STRUCTURE IMPROVEMENTS =				\$290,851,920	
	Mobilization			% of cost		
				7%	\$35,507,930	
	TOTAL CONSTRUCTION COST =				\$509,744,000	
	Engineering and Contingencies			0%	\$0	
	TOTAL CONSTRUCTION COST INCLUDING E&C =				\$509,744,000	
	Right-of-Way Cost Projected	Purchase	MILE	58	\$1,000,000.00	\$57,630,000
		Doc. (25/mile)	PARCEL-MILE	1,441	\$25,000.00	\$36,018,750
	Utility Adjustments		MILE	57.63	\$1,000,000.00	\$57,632,000
	TOTAL PROJECT COST =				\$625,006,000	
	Average Construction Cost Per Mile				\$8,845,000	
	Average ROW Cost Per Mile				\$1,000,000	

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0.00	0
0.00	0
Total	0

Bridges

Main Lanes					Width (ft)								
Location	Direction	From Station	To Station	length (ft)	In. Shldr	Base Lns	Addl Lns	Out Shldr	Rail	Total	area (sqft)		
IH 30	N/S	00+00.00	01+28.00	128.00	10	26		10	2	48	6144		
IH 20	N/S	00+00.00	01+28.00	128.00	10	26		10	2	48	6144		
IH 45	N/S	00+00.00	01+28.00	128.00	10	26		10	2	48	6144		
Union Pacific RF	N/S	00+00.00	01+20.00	120.00	10	26		10	2	48	5760		
Union Pacific RF	N/S	00+00.00	01+20.00	120.00	10	26		10	2	48	5760		
IH 35	N/S	00+00.00	01+28.00	128.00	10	26		10	2	48	6144		
Total												1274976	

Bridge Striping

No. of Lanes	4" SLD White	4" Brk White	4" SLD Yellow	RPM TY II-C-R
2	128.00	32	128.00	3.2
2	128.00	32	128.00	3.2
2	128.00	32	128.00	3.2
2	120.00	30	120.00	3
2	120.00	30	120.00	3
2	128.00	32	128.00	3.2
Total				

Drainage

Location	Direction	From Station	To Station	length (ft)	In. Shldr	Base Lns	Addl Lns	Out Shldr	Rail	Total	area (sqft)
Bearpen Creek	158+00			220.00	10	26		10	2	48	10560
S Fork Sabine R	375+00			4000.00	10	26		10	2	48	192000
Little High Point	873+00			330.00	10	26		10	2	48	15840
High Point Ck	991+00			2000.00	10	26		10	2	48	96000
Big Brushy Ck	1040+00			2000.00	10	26		10	2	48	96000
East Fork Trinity	1772+00			4000.00	10	26		10	2	48	192000
Parsons Slough	1934+40			330.00	10	26		10	2	48	15840
Trinity River	1970+00			3500.00	10	26		10	2	48	168000
Old Tenmile Ck	2066+00			330.00	10	26		10	2	48	15840
Bear Creek	2145+00			1000.00	10	26		10	2	48	48000
Red Oak Creek	2175+00			1800.00	10	26		10	2	48	86400
Grove Creek	2326+00			2500.00	10	26		10	2	48	120000
Red Oak Creek	2501+00			1600.00	10	26		10	2	48	76800
Red Oak Creek	2711+65			1600.00	10	26		10	2	48	76800
Grove Creek	3007+00			600.00	10	26		10	2	48	28800
Total											1274976

Total 26562 6640.5 26562 664.05

Direct Connects

Location	Direction	From Station	To Station	length (ft)	In. Shldr	Base Lns	Addl Lns	Out Shldr	Rail	Total	area (sqft)
IH 30		00+00.00	238+00.00	23800	8	14		8		30	714000
IH 20		00+00.00	238+00.00	23800	8	14		8		30	714000
IH 45		00+00.00	238+00.00	23800	8	14		8		30	714000
IH 35		00+00.00	238+00.00	23800	8	14		8		30	714000
				0	8	14		8		30	0
Total											2856000

Assumes 1-In Only

4" SLD White	4" SLD Yellow
23800.00	23800.00
23800.00	23800.00
23800.00	23800.00
23800.00	23800.00
0.00	0.00
Total	95200

Ramps

Name	Location	From Station	To Station	length (ft)	In. Shldr	Base Lns	Out Shldr	Total	Add Plz area (sqft)	Total area (sqft)
				0.00	4	14	6	24		0
				0.00	4	14	6	24		0
				0.00	4	14	6	24		0
				0.00	4	14	6	24		0
Total										0

Assumes 1-In Only

4" SLD White	4" SLD Yellow
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
Total	0

Frontage Roads

Location	Direction	From Station	To Station	length (ft)	In. Shldr	Base Lns	Addl Lns	Out Shldr	Rail	Total	area (sqft)
				0.00	4	0		8		12	0
				0.00	4	0		8		12	0
				0.00	4	0		8		12	0
				0.00	4	0		8		12	0
				0.00	4	0		8		12	0
				0.00	4	0		8		12	0
Total											0

4" SLD White	4" Brk White	4" SLD Yellow	RPM TY II-C-R
0.00	0	0.00	0
0.00	0	0.00	0
0.00	0	0.00	0
0.00	0	0.00	0
0.00	0	0.00	0
0.00	0	0.00	0
Total	0	0	0

Cross Streets

Location	Direction	From Station	To Station	length (ft)	In. Shldr	Base Lns	Addl Lns	Out Shldr	Total	area (sqft)
IH 30	E/W	00+00.00	04+20.00	420	10	48		10	68	28560
FM 35	E/W	00+00.00	04+20.00	420	10	48		10	68	28560
SH 276	E/W	00+00.00	04+20.00	420	10	48		10	68	28560

4" SLD White	4" Brk White	4" SLD Yellow
840.00	840.00	840.00
840.00	840.00	840.00
840.00	840.00	840.00

