

APPENDIX G

COST ESTIMATE CALCULATIONS

Table G-1
Year 2008 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 2, Access Alternative C

Intersection: Palm Avenue/5th Street
Improvements: Add a northbound right turn lane and restripe outermost northbound through lane as a shared through/right turn lane.

Items	Lane	Units	Unit Cost	Total Cost
Roadway widening	NBR	500 ft.	\$180,000/mile	\$17,000
Curb and Gutter	NBR	500 LF	\$15/LF	\$7,500
Upgrade existing signal		--	\$75,000/each	\$75,000
Subtotal				\$99,500
Minor Items/Supplemental Work			10%	\$9,950
Mobilization			10%	\$9,950
Contingencies			25%	\$24,880
Total				\$144,280

TOTAL OFF-SITE INTERSECTION IMPROVEMENT COSTS **\$144,280**

Table G-2
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative A

Intersection: Palm Avenue/5th Street

Improvements: Add a westbound left turn lane and two northbound right turn lanes with right turn overlap phasing.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBR	500 ft.(x2)	\$180,000/mile	\$34,100		
Curb and Gutter	NBR	500 LF	\$15/LF	\$7,500		
Add left turn lane	WBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(EBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$216,600		
Minor Items/Supplemental Work			10%	\$21,660		
Mobilization			10%	\$21,660		
Contingencies			25%	\$54,150		
Total				\$314,070	0.2%	\$544

Intersection: Palm Avenue/3rd Street

Improvements: Add an eastbound left-turn lane and a northbound through lane. Widen the east leg departure by one lane to preserve proper alignment of the eastbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	NBT	600 LF	\$15/LF	\$9,000		
Roadway widening	EBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	EBT	600 LF	\$15/LF	\$9,000		
Add left turn lane	EBL	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$184,000		
Minor Items/Supplemental Work			10%	\$18,400		
Mobilization			10%	\$18,400		
Contingencies			25%	\$46,000		
Total				\$266,800	0.2%	\$475

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)

Improvements: Install a traffic signal.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Install new traffic signal		--	\$90,000/each	\$90,000		
Subtotal				\$90,000		
Minor Items/Supplemental Work			10%	\$9,000		
Mobilization			10%	\$9,000		
Contingencies			25%	\$22,500		
Total				\$130,500	100.0%	\$130,500

Table G-2
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative A

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)
 Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Subtotal				\$117,800		
Minor Items/Supplemental Work			10%	\$11,780		
Mobilization			10%	\$11,780		
Contingencies			25%	\$29,450		
Total				\$170,810	0.2%	\$393

Intersection: SR-30 Southbound Ramps/5th Street
 Improvements: Widen 5th Street to two eastbound through lanes, an eastbound through right turn lane, an eastbound right turn lane, three westbound through lanes, and two westbound left turn lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	WBT	450 LF	\$15/LF	\$6,800		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$97,100		
Minor Items/Supplemental Work			10%	\$9,710		
Mobilization			10%	\$9,710		
Contingencies			25%	\$24,280		
Total				\$140,800	1.9%	\$2,692

Intersection: SR-30 Northbound Ramps/5th Street
 Improvements: Widen 5th Street to three eastbound through lanes, an eastbound left turn lane, two westbound through lanes and a westbound through/right lane (wide enough for defacto right). Add a northbound left turn lane to the off-ramp. Provide a minimum of 190 feet of storage for the eastbound left-turn lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	EBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	EBT	450 LF	\$15/LF	\$6,800		
Widen ramp		--	\$350,000/each	\$350,000		
Upgrade existing signal at ramp		--	\$75,000/each	\$75,000		
Subtotal				\$447,100		
Minor Items/Supplemental Work			10%	\$44,710		
Mobilization			10%	\$44,710		
Contingencies			25%	\$111,780		
Total				\$648,300	1.2%	\$7,918

Table G-2
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative A

Intersection: Boulder Avenue/5th Street

Improvements: Restripe southbound right turn lane as a shared through/right turn lane, add a northbound left turn lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	WBT	600 LF	\$15/LF	\$9,000		
Add left turn lane	NBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(SBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$204,500		
Minor Items/Supplemental Work			10%	\$20,450		
Mobilization			10%	\$20,450		
Contingencies			25%	\$51,130		
Total				\$296,530	0.0%	\$0

Intersection: Orange Street/Cemex Access

Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$192,800		
Minor Items/Supplemental Work			10%	\$19,280		
Mobilization			10%	\$19,280		
Contingencies			25%	\$48,200		
Total				\$279,560	2.7%	\$7,463

TOTAL OFF-SITE INTERSECTION IMPROVEMENT COSTS				\$2,247,370		\$149,985
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Table G-3
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative B

Intersection: Palm Avenue/5th Street
 Improvements: Add a westbound left turn lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Add left turn lane	WBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(EBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$175,000		
Minor Items/Supplemental Work			10%	\$17,500		
Mobilization			10%	\$17,500		
Contingencies			25%	\$43,750		
Total				\$253,750	1.0%	\$2,447

Intersection: Palm Avenue/3rd Street
 Improvements: Add a northbound right turn lane, restripe rightmost northbound through lane as a shared through/right turn lane. Widen east leg of intersection to accommodate two departure lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBR	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	NBR	600 LF	\$15/LF	\$9,000		
Roadway widening	EBT	750 ft.	\$180,000/mile	\$25,600		
Curb and Gutter	EBT	750 LF	\$15/LF	\$10,500		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$140,600		
Minor Items/Supplemental Work			10%	\$14,060		
Mobilization			10%	\$14,060		
Contingencies			25%	\$35,150		
Total				\$203,870	1.5%	\$3,107

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)
 Improvements: Install a traffic signal.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Install new traffic signal		--	\$90,000/each	\$90,000		
Subtotal				\$90,000		
Minor Items/Supplemental Work			10%	\$9,000		
Mobilization			10%	\$9,000		
Contingencies			25%	\$22,500		
Total				\$130,500	100.0%	\$130,500

Table G-3
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative B

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)
 Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Subtotal				\$117,800		
Minor Items/Supplemental Work			10%	\$11,780		
Mobilization			10%	\$11,780		
Contingencies			25%	\$29,450		
Total				\$170,810	1.9%	\$3,292

Intersection: Church Avenue/5th Street
 Improvements: Add south leg to intersection corresponding to 3rd Street connection

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBR	200 ft.	\$180,000/mile	\$6,800		
Curb and Gutter	NBR	400 LF	\$15/LF	\$6,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$87,800		
Minor Items/Supplemental Work			10%	\$8,780		
Mobilization			10%	\$8,780		
Contingencies			25%	\$21,950		
Total				\$127,310	2.0%	\$2,513

Intersection: SR-30 Southbound Ramps/5th Street
 Improvements: Widen 5th Street to two eastbound through lanes, an eastbound through right turn lane, an eastbound right turn lane, three westbound through lanes, and two westbound left turn lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	WBT	450 LF	\$15/LF	\$6,800		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$97,100		
Minor Items/Supplemental Work			10%	\$9,710		
Mobilization			10%	\$9,710		
Contingencies			25%	\$24,280		
Total				\$140,800	1.9%	\$2,692

Table G-3
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative B

Intersection: SR-30 Northbound Ramps/5th Street

Improvements: Widen 5th Street to three eastbound through lanes, an eastbound left turn lane, two westbound through lanes and a westbound through/right lane. Add a northbound left turn lane to the off-ramp. Provide a minimum of 220 feet of storage for the eastbound left-turn lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	EBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	EBT	450 LF	\$15/LF	\$6,800		
Widen ramp		--	\$350,000/each	\$350,000		
Upgrade existing signal at ramp		--	\$75,000/each	\$75,000		
Subtotal				\$447,100		
Minor Items/Supplemental Work			10%	\$44,710		
Mobilization			10%	\$44,710		
Contingencies			25%	\$111,780		
Total				\$648,300	1.2%	\$7,918

Intersection: Boulder Avenue/5th Street

Improvements: Restripe southbound right turn lane as a shared through/right turn lane, add a northbound left turn lane. Widen west leg of intersection to 6 lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	WBT	600 LF	\$15/LF	\$9,000		
Add left turn lane	NBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(SBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$204,500		
Minor Items/Supplemental Work			10%	\$20,450		
Mobilization			10%	\$20,450		
Contingencies			25%	\$51,130		
Total				\$296,530	0.0%	\$0

Intersection: Orange Street/Cemex Access

Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$192,800		
Minor Items/Supplemental Work			10%	\$19,280		
Mobilization			10%	\$19,280		
Contingencies			25%	\$48,200		
Total				\$279,560	2.7%	\$7,463

TOTAL OFF-SITE INTERSECTION IMPROVEMENT COSTS **\$2,251,430** **\$159,932**

Table G-3
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative B

Table G-4
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative D

Intersection: Palm Avenue/5th Street
Improvements: Add a westbound left turn lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Add left turn lane	WBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(EBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$175,000		
Minor Items/Supplemental Work			10%	\$17,500		
Mobilization			10%	\$17,500		
Contingencies			25%	\$43,750		
Total				\$253,750	0.2%	\$539

Intersection: Palm Avenue/3rd Street
Improvements: Add a northbound right turn lane, restripe rightmost northbound through lane as a shared through/right turn lane. Widen east leg of intersection to accommodate two departure lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBR	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	NBR	600 LF	\$15/LF	\$9,000		
Roadway widening	EBT	750 ft.	\$180,000/mile	\$25,600		
Curb and Gutter	EBT	750 LF	\$15/LF	\$10,500		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$140,600		
Minor Items/Supplemental Work			10%	\$14,060		
Mobilization			10%	\$14,060		
Contingencies			25%	\$35,150		
Total				\$203,870	0.4%	\$808

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)
Improvements: Install a traffic signal.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Install new traffic signal		--	\$90,000/each	\$90,000		
Subtotal				\$90,000		
Minor Items/Supplemental Work			10%	\$9,000		
Mobilization			10%	\$9,000		
Contingencies			25%	\$22,500		
Total				\$130,500	100.0%	\$130,500

Table G-4
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative D

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)
 Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Subtotal				\$117,800		
Minor Items/Supplemental Work			10%	\$11,780		
Mobilization			10%	\$11,780		
Contingencies			25%	\$29,450		
Total				\$170,810	0.5%	\$872

Intersection: Church Avenue/5th Street
 Improvements: Add south leg to intersection corresponding to 3rd Street connection

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBR	200 ft.	\$180,000/mile	\$6,800		
Curb and Gutter	NBR	400 LF	\$15/LF	\$6,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$87,800		
Minor Items/Supplemental Work			10%	\$8,780		
Mobilization			10%	\$8,780		
Contingencies			25%	\$21,950		
Total				\$127,310	0.3%	\$420

Intersection: SR-30 Southbound Ramps/5th Street
 Improvements: Widen 5th Street to two eastbound through lanes, an eastbound through right turn lane, an eastbound right turn lane, three westbound through lanes, and two westbound left turn lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	WBT	450 LF	\$15/LF	\$6,800		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$97,100		
Minor Items/Supplemental Work			10%	\$9,710		
Mobilization			10%	\$9,710		
Contingencies			25%	\$24,280		
Total				\$140,800	1.9%	\$2,692

Table G-4
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative D

Intersection: SR-30 Northbound Ramps/5th Street

Improvements: Widen 5th Street to three eastbound through lanes, an eastbound left turn lane, two westbound through lanes and a westbound through/right lane. Add a northbound left turn lane to the off-ramp. Provide a minimum of 180 feet of storage for the eastbound left-turn lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	EBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	EBT	450 LF	\$15/LF	\$6,800		
Widen ramp		--	\$350,000/each	\$350,000		
Upgrade existing signal at ramp		--	\$75,000/each	\$75,000		
Subtotal				\$447,100		
Minor Items/Supplemental Work			10%	\$44,710		
Mobilization			10%	\$44,710		
Contingencies			25%	\$111,780		
Total				\$648,300	1.2%	\$7,918

Intersection: Boulder Avenue/5th Street

Improvements: Restripe southbound right turn lane as a shared through/right turn lane, add a northbound left turn lane. Widen west leg of intersection to 6 lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	WBT	600 LF	\$15/LF	\$9,000		
Add left turn lane	NBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(SBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$204,500		
Minor Items/Supplemental Work			10%	\$20,450		
Mobilization			10%	\$20,450		
Contingencies			25%	\$51,130		
Total				\$296,530	0.0%	\$0

Intersection: Orange Street/Cemex Access

Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$192,800		
Minor Items/Supplemental Work			10%	\$19,280		
Mobilization			10%	\$19,280		
Contingencies			25%	\$48,200		
Total				\$279,560	2.7%	\$7,463

TOTAL OFF-SITE INTERSECTION IMPROVEMENT COSTS	\$2,251,430	\$151,212
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Table G-4
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 1, Access Alternative D

Table G-5
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 2, Access Alternative C

Intersection: Palm Avenue/5th Street

Improvements: Add a westbound left turn lane and two northbound right turn lanes with right turn overlap phasing.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBR	500 ft.(x2)	\$180,000/mile	\$34,100		
Curb and Gutter	NBR	500 LF	\$15/LF	\$7,500		
Add left turn lane	WBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(EBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$216,600		
Minor Items/Supplemental Work			10%	\$21,660		
Mobilization			10%	\$21,660		
Contingencies			25%	\$54,150		
Total				\$314,070	0.5%	\$1,699

Intersection: Palm Avenue/3rd Street

Improvements: Add an eastbound left-turn lane and a northbound through lane. Widen the east leg departure by one lane to preserve proper alignment of the eastbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	NBT	600 LF	\$15/LF	\$9,000		
Roadway widening	EBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	EBT	600 LF	\$15/LF	\$9,000		
Add left turn lane	EBL	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$184,000		
Minor Items/Supplemental Work			10%	\$18,400		
Mobilization			10%	\$18,400		
Contingencies			25%	\$46,000		
Total				\$266,800	0.0%	\$0

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)

Improvements: Install a traffic signal.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Install new traffic signal		--	\$90,000/each	\$90,000		
Subtotal				\$90,000		
Minor Items/Supplemental Work			10%	\$9,000		
Mobilization			10%	\$9,000		
Contingencies			25%	\$22,500		
Total				\$130,500	100.0%	\$130,500

Table G-5
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 2, Access Alternative C

Intersection: Alabama Street/Robertson's Access-Cemex Access (driveways combined for signalization due to proximity)
 Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Subtotal				\$117,800		
Minor Items/Supplemental Work			10%	\$11,780		
Mobilization			10%	\$11,780		
Contingencies			25%	\$29,450		
Total				\$170,810	0.0%	\$0

Intersection: SR-30 Southbound Ramps/5th Street
 Improvements: Widen 5th Street to two eastbound through lanes, an eastbound through right turn lane, an eastbound right turn lane, three westbound through lanes, and two westbound left turn lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	WBT	450 LF	\$15/LF	\$6,800		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$97,100		
Minor Items/Supplemental Work			10%	\$9,710		
Mobilization			10%	\$9,710		
Contingencies			25%	\$24,280		
Total				\$140,800	3.8%	\$5,393

Intersection: SR-30 Northbound Ramps/5th Street
 Improvements: Widen 5th Street to three eastbound through lanes, an eastbound left turn lane, two westbound through lanes and a westbound through/right lane. Add a northbound left turn lane to the off-ramp.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	EBT	450 ft.	\$180,000/mile	\$15,300		
Curb and Gutter	EBT	450 LF	\$15/LF	\$6,800		
Widen ramp		--	\$350,000/each	\$350,000		
Upgrade existing signal at ramp		--	\$75,000/each	\$75,000		
Subtotal				\$447,100		
Minor Items/Supplemental Work			10%	\$44,710		
Mobilization			10%	\$44,710		
Contingencies			25%	\$111,780		
Total				\$648,300	8.1%	\$52,333

Table G-5
Year 2030 Off-Site Intersection Improvement Cost Estimates
Land Use Alternative 2, Access Alternative C

Intersection: Boulder Avenue/5th Street
Improvements: Restripe southbound right turn lane as a shared through/right turn lane, add a northbound left turn lane.
Widen west leg of intersection to 6 lanes.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	WBT	600 ft.	\$180,000/mile	\$20,500		
Curb and Gutter	WBT	600 LF	\$15/LF	\$9,000		
Add left turn lane	NBL	1	\$50,000/each	\$50,000		
(Add left turn lane)	(SBL)	1	\$50,000/each	\$50,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$204,500		
Minor Items/Supplemental Work			10%	\$20,450		
Mobilization			10%	\$20,450		
Contingencies			25%	\$51,130		
Total				\$296,530	6.0%	\$17,847

Intersection: Orange Street/Cemex Access
Improvements: Add a northbound through lane and a southbound through lane.

Items	Lane	Units	Unit Cost	Total Cost	Fair-Share %	Fair-Share
Roadway widening	NBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	NBT	1200 LF	\$15/LF	\$18,000		
Roadway widening	SBT	1200 ft.	\$180,000/mile	\$40,900		
Curb and Gutter	SBT	1200 LF	\$15/LF	\$18,000		
Upgrade existing signal		--	\$75,000/each	\$75,000		
Subtotal				\$192,800		
Minor Items/Supplemental Work			10%	\$19,280		
Mobilization			10%	\$19,280		
Contingencies			25%	\$48,200		
Total				\$279,560	8.3%	\$23,252

TOTAL OFF-SITE INTERSECTION IMPROVEMENT COSTS	\$2,247,370	\$231,024
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