

Appendix G - Assumptions

FM 2920 Cost Estimate Assumptions		
	Improvement	Assumptions
Short Range	Traffic Signal Improvements	Based on detailed assessment of hardware and controllers at each signal location as shown on separate Signal Cost Details table.
	Traffic Signal Synchronization	Based on traffic engineers opinion of probable cost.
	Street Name / Block Number	Street name / Block numbers to be placed at signalized intersections only.
	Next Intersection / Signal	Next intersection / Signal signs to be placed at all major and minor intersections.
	Curve Warning	Curve Warning signs placed as shown on Advanced Signing and Rumble Strip Detail.
	Add In-Lane Rumble Strips	In-Lane Rumble strips to be placed as shown on Advanced Signing and Rumble Strip Detail.
	Add Shoulder Texturing (Both Shoulders)	Shoulder Texturing costs are per mile for both shoulders and are to be placed as shown on Advanced Signing and Rumble Strip Detail.
	Add Centerline Texturing	Centerline Texturing costs are per mile and to be placed on the centerline only.
	Add Left Turn Lane on FM 2920	Costs for adding left turn lanes (LTL's) are based on a 1050 LF construction area (440' transition, 100' taper and a 510' LTL) per LTL. Costs include all the materials required for the widening of existing FM 2920 to accommodate the LTL at the intersection. Drainage improvements were also included in the costs since existing ditches would have to be relocated due to the roadway widening.
	Add Right Turn Lane on FM 2920	Costs for adding right turn lanes (RTL's) are based on a 610 LF construction area (100' taper and a 510' RTL) per RTL. Costs include all the materials required for the widening of existing FM 2920 to accommodate the RTL at the intersection.
	Widen Shoulders to 8' at Intersections (2100 LF on Both Sides)	Costs for widening existing shoulders to 8' are based on a 2100 LF (1050 LF per intersection approach) construction area per intersection. Costs include all the materials required for the widening of existing FM 2920 shoulders.
	Widen Roadway from 2-Lane to 5-Lane	Costs for widening from 2 lanes to 5 lanes were calculated on a per mile basis. Costs include all the materials required for the widening of existing FM 2920 to accommodate the additional 2 travel lanes and the center left turn lane (CLTL). Drainage improvements were also included in the costs since existing ditches would have to be relocated due to the roadway widening.
	Restripe For New Lane Configuration (FM 2920 / IH45 Intersection)	Restriping costs include the following work: 1) Restriping of SB frontage road approach to provide two dedicated right turn lanes (RTL's) for SB to WB movement, 2) Restriping of EB FM 2920 approach to provide added storage for RTL for EB to SB movement and 3) Restriping of NB frontage road approach to provide two dedicated left turn lanes (LTL's) for NB to WB movement.
	Add Raised Median / Channelization (Concrete)	Costs for adding raised medians/channelizations include all materials such as curb, conc riprap and striping. The cost was calculated on a square foot basis.
	Add Raised Median / Channelization (Ready for Landscaping)	Costs for adding raised medians/channelizations include all materials such as curb, striping, excavation, embankment, topsoil, block sod and installation of an irrigation system. Installation of this type of raised median will result in the median island being ready for landscaping to be installed. The cost was calculated on a square foot basis.
	Widen Sidewalks	Costs for widening of existing sidewalks include demolition of portions of existing sidewalks and ramps and installation of a wider sidewalk with new curb ramps located at each cross street intersection. The costs was calculated on a square foot basis.
	Minor Driveway Modification	Costs for minor driveway modifications include demolition of a portion of existing driveways and placement of new pavement and curb.
	Reduce Driveway Width	Costs for reducing driveway widths include demolition of a portion of existing driveways and placement of new pavement and curb. This work is to be done to minimize the excessive width of some driveways.
	Improve Railroad Crossing Control Device	NOT APPLICABLE
	Rehabilitate Pavement (Pine St to Elm St)	Costs for rehabilitating existing pavement include milling up to 4 inches of existing asphalt pavement and placing new hot mix asphalt. Striping and other miscellaneous items are also included.
Add Left Turn Lane on Cross Street	Costs for adding left turn lanes (LTL's) on a cross street are based on a 450 LF construction area (200' transition, 100' taper and a 150' LTL) per LTL. Costs include all the materials required for the widening of existing cross street to accommodate the LTL at the intersection.	
Add Right Turn Lane on Cross Street	Costs for adding right turn lanes (RTL's) are based on a 610 LF construction area (100' taper and a 510' RTL) per RTL. Costs include all the materials required for the widening of existing cross street to accommodate the RTL at the intersection.	
Add Off Street Parking	Too many unknowns to estimate cost at this time.	

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Medium Range	Add Left Turn Lane on FM 2920	Costs for adding left turn lanes (LTL's) are based on a 1050 LF construction area (440' transition, 100' taper and a 510' LTL) per LTL. Costs include all the materials required for the widening of existing FM 2920 to accommodate the LTL at the intersection. Drainage improvements were also included in the costs since existing ditches would have to be relocated due to the roadway widening.
	Add Continuous Left Turn Lane and 8' Shldr between Intersections	Costs for adding a continuous left turn lane (CLTL) and 8' shoulders between intersections were calculated on a per mile basis. Costs include all the materials required for the widening of existing FM 2920 to accommodate the additional CLTL and 8' shoulders. Drainage improvements were also included in the costs since existing ditches would have to be relocated due to the roadway widening.
	Widen One Additional WB Lane	Costs for widening needed to accommodate the additional WB lane were calculated on a per mile basis. Costs include all the materials required for the widening of existing FM 2920 to accommodate the additional lane. Drainage improvements were also included in the costs since existing ditches would have to be relocated due to the roadway widening.
	Widen Roadway from 2-Lane to 5-Lane	Too many unknowns including type of drainage system to use which may affect ROW needs to estimate cost at this time.
	Widen Roadway from 2-Lane to 4-Lane (Falvel N. of FM 2920)	Too many unknowns including type of drainage system to use which may affect ROW needs to estimate cost at this time.
	Driveway Closure	Costs for driveway closures include demolition of existing driveway and placement of curb, embankment and topsoil.
	Consolidate Driveways	Costs for consolidating existing driveways include demolition of a portion of existing driveways and placement of new pavement and curb.
	Bike Route	NOT APPLICABLE
	Add Bike Route Signs	Bike route signs were assumed to be placed along the corridor at every 2 miles.
	Add Left Turn Lane on Cross Street	Costs for adding left turn lanes (LTL's) on a cross street are based on a 450 LF construction area (200' transition, 100' taper and a 150' LTL) per LTL. Costs include all the materials required for the widening of existing cross street to accommodate the LTL at the intersection.
	Add Right Turn Lane on Cross Street	Costs for adding right turn lanes (RTL's) are based on a 610 LF construction area (100' taper and a 510' RTL) per RTL. Costs include all the materials required for the widening of existing cross street to accommodate the RTL at the intersection.
	Improve Right Turn Radius	Costs for improving right turn radii include removal
Long Range	Widen FM 2920 from 5-Lane to 6-Lane (From Boudreaux Rd to IH 45)	Too many unknowns such as shoulder and median width and ROW needs to estimate cost at this time.
	Widen FM 2920 from 4-Lane to 6-Lane (From IH 45 to Lexington Rd)	Too many unknowns such as shoulder and median width and ROW needs to estimate cost at this time.
	Realign Nichols Rd.	Costs for realigning of Nichols Rd are based on an 1800 LF construction area. Costs include demolition of existing cross street and all the materials required for the relocation of the new cross street. Drainage improvements were also included in the costs since existing ditches would have to be relocated due to the roadway widening. Costs for acquiring ROW required for the realignment are not included in the estimate.
	Realign Alma St, Baker Dr, Kobs Rd, and Foster Rd	Costs for realigning of cross street are based on a 500 LF construction area. Costs include demolition of existing cross street and all the materials required for the relocation of the new cross street. Drainage improvements were also included in the costs since existing ditches would have to be relocated due to the roadway widening. Costs for acquiring ROW required for the realignment are not included in the estimate.
	Construct Medical Complex Drive (FM 2920W to FM 2920E)	Too many unknowns regarding alignment, typical section, ROW needs and drainage to estimate cost at this time.