STONE ROAD FUTURE ALTERNATIVES SUMMARY

Assumed Conditions	
2021 Average Daily Traffic (ADT)*	5,167
Growth Factor (%)	1.5
Percent Heavy Trucks (%) (assumed)	5.0
ESAL Truck Factor (assumed)	1.7
Minimum Right-of-Way Width (ft)**	50
2-Lane Road Capacity***	10,000

Projected Average Daily Traffic (ADT)							Proj Yr to top 10
Projected Year	2021	2025	2030	2035	2040	2045	2066
Average Daily Traffic (ADT)	5,167	5,484	5,908	6,364	6,856	7,386	

Typical Sections	EB Width (ft)	Center Width (ft)	WB Width (ft)	Total (ft)	Add'l ROW	Curb & Gutter	New Culverts	Surface / Base	Base Type
Existing	10.5	0.0	10.5	21.0	N	N	N	3"/6"	Sand/Gravel
2-Lane Asphalt (Match Existing)	10.5	0	10.5	21.0	N	N	N	9"/8"	Flex w/ Geogrid
2-Lane Concrete, no impvd drainage	13	0	13	26.0	N	N	N	8"/8"	Flex w/ Geogrid
2-Lane Concrete, w/ impvd drainage	13	0	13	26.0	Y (70' min)	N	Υ	8"/8"	Flex w/ Geogrid
3-Lane Concrete	12	14	13	39.0	Y (70' min)	Υ	Υ	8"/8"	Flex w/ Geogrid

^{*-}From "E. Stone Improvements Study" report, prepared by Binkley & Barfield Consulting Engineers for Collin County, highest count of 4 locations.

^{**-}Maximum width considered 50' before needing to purchasing right-of-way.

^{***-}From "E. Stone Improvements Study" report, prepared by Binkley & Barfield Consulting Engineers for Collin County, listed as a "general rule of thumb."