

**APPENDIX A**  
**Project Design Criteria**

<b>Roadway Evaluation Criteria</b>		
Design Element	Criterion	Reference
Design Year	2030	
AADT (2005)	1750 Vehicles per Day	Annual Traffic Volume Report for 2003-2005
Design Year AADT	1980 Vehicles per Day	0.50% Growth Rate
Classification	Neighborhood Collector	OS&HP
Design Speed	35 MPH	DCM Table 1-4
Posted Speed	30 MPH	DCM Table 1-4
Min. Lane Widths	10 FT, ADT<2000, K<15%	DCM Figure 1-11
Shoulder Width	3.5'-5'	DCM Table 1-4
Stopping Sight Distance	250 FT	DCM Figure 1-17
Max. Allowable Grade	6.00% (Desirable) 10.00% (Max)	DCM Section 1.9, P1-44
Min. Allowable Grade	0.50%	DCM Section 1.9, P1-44
Min. Curb Return Grade	0.50%	DCM Section 1.9, P1-46
Pavement Cross Slope	2 %	DCM Section 1.9, P1-46
Minimum K-Value	Sag: 90 / Crest: 120	DCM 1.060D.4
Vertical Curves	Algebraic Difference > 1%	DCM Section 1.9, P1-46
Vertical Clear Zone at Intersection	2.0 ft to 8 ft	DCM Figure 1-19
Curb & Gutter	Type 1	DCM Figure 1-12
Intersection Return Radii	30-Ft	DCM Section 1.9F, P1-55
Sidewalk Width	5.0-ft	DCM Table 1-4
Design Vehicle	City-Bus(AASHTO)*	DCM Section 1.9F, P1-55
Number of Lanes	2	DCM Table 1-4
Surfacing, Lanes & Shoulders	Asphalt Concrete	
Horizontal Clearance to Obstructions	18-Inches	DCM Section 1.9E, P1-50

<b>Pathway Evaluation Criteria</b>		
<b>Design Element</b>	<b>Criterion</b>	<b>Reference</b>
Functional Classification	Multi-Use Paved Trail	DCM Section 4.1.B P.4-1
Min. Trail Design Speed	20 MPH	DCM Section 4.2.B P.4-4
Cross Slope	2% MAX	DCM Section 4.2.F P.4-7
Minimum Radius	90-ft	DCM Table 4.2.B P.4-5
Horizontal Clearance	3.0-ft	DCM Section 4.2.G. P. 4-7
Vertical Clearance	10.0-ft	DCM Section 4.2.G. P. 4-7
Pathway Paved Width	8.0 ft-10 ft	DCM Section 4.2.I. P.4-8
Min. Shoulder Width	2.0-ft	DCM Section 4.2.G. P.4-7
Stopping Sight Distance	130 ft, G=1%, V=20MPH	DCM Section 4.2.C. P.4-5

<b>Drainage Evaluation Criteria</b>		
<b>Design Element</b>	<b>Criterion</b>	<b>Reference</b>
Rainfall Intensity Info.	Ted Stevens Int'l Airport	DCM Section 2.5, P. 2-9
Runoff Analysis Method	ILLUDAS	DCM Section 2.5, P. 2-9
Min. Storm Drain Pipe Diameter	12 in	DCM Section 2.7.B, P. 2-25
Min. Catch Basin Lead Dia.	10 in	DCM Section 2.7.B, P. 2-25
Min. Pipe Slope	0.30%	DCM Section 2.7.B, P. 2-25
Min. Pipe Flow Velocity	2-ft/sec	DCM Section 2.7.B, P. 2-25
Max. Pipe Flow Velocity	13 ft/sec	DCM Section 2.7.B, P. 2-25
Max. Manhole Spacing	300-ft	DCM Section 2.7.D, P. 2-27
Min. Drop Across Manhole	0.05-ft	DCM Section 2.7.D, P. 2-27
Max Cleanout Spacing	150-ft	DCM Section 2.7.F, P. 2-28
Min. Cleanout Diameter	12-in	DCM Section 2.7.F, P. 2-28
Min. Depth of Cover Over Storm Drain	4-ft	DCM Section 2.7.J, P. 2-32
Design Storm Street Drainage Facilities	10 year - 3 hour	DCM Section 2.8.A, P. 2-35
Max. Inlet Spacing	1,100-ft	DCM Section 2.7.E, P. 2-35