

SUM EAST AVE (TALLMADGE) PHASE 1	PID: 112869				Monday, August 16, 2021
DESIGN ELEMENT	EAST AVE	CRITERIA BASIS	DESIGN DEFICIENCY	DESIGN EXCEPTION REQUIRED	COMMENTS
GENERAL					
Functional Classification	04 Minor Arterial (Urban)				
Design Year ADT	19050				
Design Speed (mph)	35	Proposed Design Speed			
Legal Speed (mph)	35	Proposed Design Speed			
Posted Speed (mph)	35	Field Verification			
SIGHT DISTANCE					
Stopping Sight Distance (ft)	250	L&D Volume 1, Figure 201-1	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Decision Site Distance (ft) - Avoidance Maneuver D	625	L&D Volume 1, Figure 201-6	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Intersection Sight Distance (ft)	390 Lt / 335 Rt	L&D Volume 1, Figure 201-4 / 201-5	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
HORIZONTAL ALIGNMENT					
Maximum Centerline Deflection Without Horizontal Curve	2' 45'	L&D Volume 1, Figure 202-1	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Maximum Degree of Curve	16° 45'	L&D Volume 1, Figure 202-2	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Maximum Degree of Curve Without Superelevation	11° 28'	L&D Volume 1, Figure 202-3	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Equivalent Maximum Relative Slope "G"	161:1	L&D Volume 1, Figure 202-4	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Maximum Superelevation	0.080	L&D Volume 1, Figure 202-7	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Pavement Transition / Taper Rates	20.4:1	L&D Volume 1, Section 301.1.4	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
VERTICAL ALIGNMENT					
Minimum Grade (Curbed Pavement Only)	0.50%	L&D Volume 1, Section 203.2.2	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Maximum Grade - Urban Arterial Rolling	8%	L&D Volume 1, Figure 203-1	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Maximum Change in Vertical Alignment Without a Vertical Curve	0.95%	L&D Volume 1, Figure 203-2	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Crest Vertical Curve - Design K	29	L&D Volume 1, Figure 203-3	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Sag Vertical Curve - Design K	49	L&D Volume 1, Figure 203-6	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
CROSS SECTION					
Pavement Cross Slope	2%	L&D Volume 1, Section 301.1.5	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Maximum Cross Slope Breaks	4%	L&D Volume 1, Figure 301-6	No	N/A	Criteria does not require Design Exception for Low Speed Roadway
Lane Width (Ft)	11	L&D Volume 1, Figure 301-4	No	No	
WALK DESIGN					
Walk Buffer	6' Typ. - 2' Min	L&D Volume 1, Figure 306-2	No	N/A	Per City of Tallmadge - Buffer may be reduced to 5' min to avoid pole relocations. If pole requires buffer to be less than 5' move the pole.
Walk Width	5'	L&D Volume 1, Figure 306-2	No	N/A	Criteria does not require Design Exception for Low Speed Roadway