

Roundabout Critical Design Parameters
WAR-SR48-7.50
117567

Design Parameters	NB S.R. 48	SB S.R. 48	EB DWIRE RD	WB DWIRE RD
Entry Width, FT	30.15	30	30	30.28
Entry Angle PHI ϕ , DEG	19.9	21.7	13.3	11
Exit Width, FT	30.78	30.63	22.78	18.73
Circulatory Roadway Width, FT	30	30	15	15

Fastest Path Speed	NB S.R. 48	SB S.R. 48	EB DWIRE RD	WB DWIRE RD
R ₁ , Radius/Speed, FT/MPH	213/27.3	194/26.3	274/30.1	102/20.5
R ₂ , Radius/Speed, FT/MPH	202/24.3	195/24	130/20.7	85/17.7
R ₃ , Radius/Speed, FT/MPH	277/27.3	278/27.3	206/26.9	322/32
R ₄ , Radius/Speed, FT/MPH	94/18.4	85/17.7	95/18.4	89/18
R ₅ , Radius/Speed, FT/MPH	104/20.7	82/18.9	176/25.3	194/26.3
R ₅ , Bypass Radius/Speed, FT/MPH				

Minimum Sight Parameters	NB S.R. 48	SB S.R. 48	EB DWIRE RD	WB DWIRE RD
Approach Design Speed, MPH	45	55	30	30
Approach Stopping Sight Distance, FT/MPH	360/45	495/55	200/30	200/30
Circulatory Stopping Sight Distance, FT/MPH	132.1/18	132.1/18	132.1/18	132.1/18
Exit (Crosswalk) Stopping Sight Distance, FT/MPH	NA	NA	155/25	NA
Intersection Sight Distance, FT/MPH	183.5/25	139.5/19	183.5/25	187.2/25.50

General				
Inscribed Circle Diameter, FT	180			
Design Vehicle(s)	WB-62			
Truck Apron Width, FT	15			

Designer: ANWER AL JHAYYISH

Signature:

Date: 4-17-26