

ROADWAY DESIGN CRITERIA

Calculated By: Chase Chicwak Date: 4/8/2024
 Checked By: Date:
 Reviewed By: Date:
 Reference: ODOT Location & Design Manual, Vol 1 - Roadway Design

PROJECT DATA

Project:	ROS-772-7.64	Client:	ODOT District 9
PID:	118518	Alignment:	Match Existing
Route:	SR-772	Location:	Huntington Township, Ross County
Design Speed:	55	Functional Class.:	Major Collector (Rural)
ADT: (2024)	2,300	Existing Facility:	2-Lane, Undivided
Design ADT: (2044)	2,300	Proposed facility:	2-Lane, Undivided
Trucks:	7%	Railroad:	None
Railroad	None	NHS Project:	No
CMS:	ODOT 2023	Federal Aid:	No
Blue = Design Exception (DE) items		Structures:	7105363

DESIGN DATA

Criterion	Applicable	Existing	Proposed	NDC	Reference	Comments:
SSD (ft.)	No				Fig. 201-1	Match Existing
Max. centerline deflection (°)	No				Fig. 202-1	
Max. degree of curve (°)	Yes	1°00'00"	1°00'00"	6°00'00"	Fig. 202-2	
Max. curve without super (°)	No				Fig. 202-3	
Superlevation gradient	Yes	0.25	N/A	0.47	Fig. 202-4	Not Designed Yet
Max. superelevation (%)	Yes	0.017	0.017	0.025	Fig. 202-7	Likely Match Existing
Max. curve without a spiral (°)	No				Fig. 202-11	
Max. grade (%)	Yes	1.76%	1.76%	7%	Fig. 203-1	
Min. grade (%)	No				Sec. 203.2.2	
Max. grade Δ w/o a vert. curve (%)	No				Fig. 203-2	
Crest vertical curve "K"	No				Fig. 203-3	
Sag vertical curve "K"	Yes	Unknown	124	115	Fig. 203-6	
Lane width (ft.)	Yes	~11'	12'	11'	Fig. 301-4	Per PIP
Guardrail offset (ft.) Right, Left	Yes	8' min.	5' / 7'	8'	Fig. 301-3	
Paved shoulder width (ft.) Rt., Lt.	Yes	4.5' min.	5' / 7'	4'	Fig. 301-4	
Graded shoulder width (ft.) Rt., Lt.	Yes	8' / 10'	8' / 10'	11'	Fig. 301-3	
Curve widening	No				Fig. 301-5c	
Cross slope (%)	No				Fig. 301-6	
Paved Shoulder cross slope (%)	Yes	0.063	N/A	0.04	Fig. 301-8	Not Designed Yet
Graded Shoulder cross slope (%)	Yes	0.083	N/A	0.08	Fig. 301-8	Not Designed Yet
Bridge lateral clearance (ft.)	No				Fig. 302-3	
Curb type	No				Fig. 303-4	