## **Design Exception Request**

DEL-229-0.21

PID: 107754; Request 02

**Letting Type: ODOT-Let** 

Design Designation						
00229; 0.14-3.5						
Current ADT (2025)	3,600	Td	0.05			
Design Year ADT (2045)	4,700	Design Speed	60			
Design Hourly Volume (2045)	400	Legal Speed	55			
Directional Distribution	0.50	Design Functional Class	5 - Major Collector Roads			
Trucks (24hr B&C)	0.16	Functional Class Area Type	Rural			
		NHS Project	No			



Submitted By:	
Ravinder Gupta (Engineer of Record)	
Approved by:	Engineer of Record Seal

Sean Meddles Approval Date: 11/7/2024

## **Design Exception Request**

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Controlling Criteria Identification  Section: 00229; 0.14-3.5					
SFN 2102730: HL 93 + 60 FWS	SFN 2102730: HS 20 + MOD (150% Ohio Legal Load)	SFN 2102730: HL 93 + 0 FWS (Inventory Rating = 0.682, Operating Rating = 0.885) (Controlling Legal Load RF = 117% Ohio Legal Load)			
	Standard	Section: 00229; 0.14-3.5    Standard   Existing (a.)			

## Project Description

REPLACEMENT OF THE EXISTING STRUCTURE AT THE DEL-00229-00.200, REHABILITATION OF THE EXISTING STRUCTURES AT 00.930, 01.490, AND 03.480 AND GUARDRAIL UPGRADES AT THE DEL-00229-00.360 LOCATION. REPLACEMENT OF THE EXISTING CULVERTS AT 01.560 AND 02.298 AND EXTENDING THE EXISTING CULVERT AT THE 03.250 LOCATION.

## Section Description

REPLACEMENT OF THE EXISTING STRUCTURE AT THE DEL-00229-00.200, REHABILITATION OF THE EXISTING STRUCTURES AT 00.930, 01.490, AND 03.480 AND GUARDRAIL UPGRADES AT THE DEL-00229-00.360 LOCATION.

REPLACEMENT OF THE EXISTING CULVERTS AT 01.560 AND 02.298 AND EXTENDING THE EXISTING CULVERT AT THE 03.250 LOCATION.

Proposed Mitigation (if	iny):
None	
Support for Deviation (B patterns and proposed o	enefit-cost, R/W, Environmental, Constructability, Coordination with Other Projects, Relationship between any crash lesign exception, etc.):
A cost comparison was c	ompleted for two sceanrios for the 0.93 bridge (SFN 2102730):
L.) Bridge Rehabilitation	work (deck overlay, and deck edge repair) - \$699,588
2.) Full superstructure re	placement - \$1,761,671
Due to the cost difference	e between the two options (\$1,062,082) the Bridge Rehabilitation option was selected which requires a design exception for
the design load rating.	
Does the requested Des	gn Exception location fall within a Safety Integrated Project (SIP) Map Location?
No	

Does the crash analysis (GCAT and CAM Tool) show any patterns that would be adversely impacted by the proposed Design Exception?

No