Design Exception Request

DEL-229-0.21

PID #107754, Request #4

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

DEL-229-0.21 PID #107754, Request # 4

Controlling Criteria Identification Section: 00229; 0.14-3.5					
Lane Width					
Shoulder Width					
Horizontal Curve Radius					
Maximum Grade					
SSD (Horizontal & Crest Vertical)					
Pavement Cross Slope					
Superelevation Rate					
Vertical Clearance					
Design Loading Structural Capacity	SFN 2102765: HL 93 + 60 FWS	H 20 (95% Ohio Legal Load)	SFN 2102765: HS 20 + 0 FWS (Inventory Rating = 0.696, Operating Rating = 1.163) (Controlling Legal Load RF = 101% Ohio Legal Load)		
	(a) "Frieting" many	ho N/A (i.o. Now alignment or no			

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.

pposed Mitigation (if any):
ne ne
pport for Deviation (Benefit-cost, R/W, Environmental, Constructability, Coordination with Other Projects, Relationship between any crash
tterns and proposed design exception, etc.):
st comparison was completed for the 1.49 bridge:
Iridge Rehabilitation work (deck overlay, and deck edge repair) - \$343,304
full superstructure replacement - \$1,251,567
e to the cost difference between the two options (\$908,263), the Bridge Rehabilitation option was selected which requires a design exception for the

design load rating.

Additionally, the current rehab plans will improve the condition of the superstructure. The rehab will improve the deteriorated deck edges, repair full depth areas of the slab, and will allow the railing to be upgraded to a TST-2-21.

Does the requested Design Exception location fall within a Safety Integrated Project (SIP) Map Location?

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

No