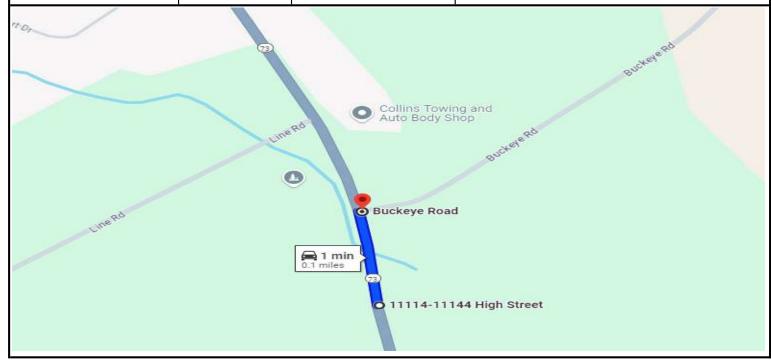
Design Exception Request

FRA-71/270-28.27/25.99A

PID: 105435; Request 09 Letting Type: ODOT-Let

Design Designation						
IR-71 NB to IR-270 EB Ramp; -						
Current ADT (2023)	162,190	Td	0			
Design Year ADT (2043)	193,790	Design Speed	70			
Design Hourly Volume (2043)	15,800	Legal Speed	65			
Directional Distribution	52%	Design Functional Class	1 - Interstates			
Trucks (24hr B&C)	20%	Functional Class Area Type	Urban			
		NHS Project	No			



Submitted By:	
Gail H. Massie (Engineer of Record)	
Approved by:	Engineer of Record Seal

Adam Koenig Approval Date: 9/11/2024

Design Exception Request

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Controlling Criteria Identification						
Section: IR-71 NB to IR-270 EB Ramp; -						
Controlling Criteria	Standard	Existing (a.)	Proposed			
Lane Width						
Shoulder Width						
Horizontal Curve Radius						
Maximum Grade						
SSD (Horizontal & Crest Vertical)	425'	305'	323'			
Pavement Cross Slope						
Superelevation Rate						
Vertical Clearance						
Design Loading Structural Capacity						
	(a.) "Existing" may be	e N/A (i.e. New alignment or new r	ramp)			

Project Description

Widening of the IR-270 EB Exit ramp to include a second dedicated lane to NB IR-71. Reconstruction of bridges Ramp K over IR-71 and Ramp O over IR-71 and Ramp K over IR-71 and Ramp O over IR-71 and Ramp K over Ramp O. Work includes widening IR-71 from I-270 NB to the Polaris Parkway Exit Lanes.

Section Description

The addition of a tall concrete barrier on the outside shoulder of Ramp Q (I-71 NB to I-270 EB) at a location with an existing deficient HSSD along the curve closest to the merge on to I-270. There is guardrail along the outside shoulder that will be replaced with 81" tall single-slope barrier. The project will provide an improvement to the existing HSSD.

apport for Deviation (Benefit-cost, R/W, Environmental, Constructability, Coordination with Other Projects, Relationship between any crash patterns and proposed design exception, etc.): The meet the required SSD of 425' a shoulder in excess of 18' would have been required. On a slope this would have caused ROW impacts unless a retaining all was added. In addition an excessively wide shoulder is both expensive and a potential safety hazzard as drivers may decided to use it as a passing area stopped traffic. The proposed traffic and the required Span Exception location fall within a Safety Integrated Project (SIP) Map Location? The proposed Design Exception location fall within a Safety Integrated Project (SIP) map Location? The proposed Design Exception Proposed Design Exception?	Proposed Mitigation
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	Yes, Red Location
	Does the crash analysis (GCAT and CAM Tool) show any patterns that would be adversely impacted by the proposed Design Exception?
	No .