LOR-90-10.76

PID: 107714; Request 01

Letting Type: ODOT-Let

		Design Designation	on	
		0090; 10.76-11.96		
Current ADT (2025)	14,900	Td	30%	
Design Year ADT (2045)	20,420	Design Speed	65	
Design Hourly Volume (2045)	1,980	Legal Speed	65	
Directional Distribution	56%	Design Functional Class	1 - Interstates	
Trucks (24hr B&C)	37%	Functional Class Area Type	Urban	
		NHS Project	Yes	



Submitted By:

E-SIGNED by Karla Bohmer on 2024-04-17 10:15:42 EST

Karla Bohmer

(Engineer of Record)

Approved by:

E-SIGNED by Jennifer Alford on 2024-04-17 10:17:08 EST

Jennifer Alford

K.B.

Engineer of Record Seal

Approval Date: 4/5/2024

LOR-90-10.76

PID: 107714; Request 01

	Cont	rolling Criteria Identification	
		Section: 0090; 10.76-11.96	
Controlling Criteria	Standard	Existing (a.)	Proposed
Lane Width			·
Shoulder Width			
Horizontal Curve Radius			
Maximum Grade			
SSD (Horizontal & Crest Vertical)	645'	WB I-90 over EB SR 2: 420'	WB I-90 over EB SR 2: 420'
Pavement Cross Slope			
Superelevation Rate	0.060 max (urban)	Curve 4 (P.I. at Sta. 542+32): 0.064 Curve 7 (P.I. at Sta. 576+31): 0.083	Curve 4 (P.I. at Sta. 542+32): 0.064 Curve 7 (P.I. at Sta. 576+31): 0.083
Vertical Clearance			
Design Loading Structural Capacity			
	(a.) "Existing" m	nay be N/A (i.e. New alignment or new	w ramp)

Project Description

PID 107714 is a major rehabilitation design build project. This project will replace 7.50 miles and resurface 0.30 miles of IR-90 while widening to add a third lane in each direction from the I-90/SR-2 split to the French Creek Bridge. This project will also replace approximately 0.52 miles of SR-2 from the Murray Ridge Road bridges to IR-90.

Work also includes: Full ramp replacement and widening at the SR-254 interchange; noise wall construction; drainage and BMP modifications; lighting modifications; ITS; guardrail replacement; traffic control; bridge deck replacement for two bridges, right of way fence replacement, and miscellaneous bridge repairs.

Section Description

IR 90, SLM 10.76 (Ohio Turnpike Booth) to SLM 11.96 (SR 2)

	Proposed Mitigation
	Proposed Mitigation None.
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Support for Deviation (Benefit-cost, R/W, Environmental, Constructability, Coordination with Other Projects, Relationship between any crash patterns and proposed design exception, etc.):

The existing corridor was designed for a maximum superelevation rate of 0.083 (rural criteria). Existing bridge infrastructure to remain prevents full conversion to maximum superelevation rate of 0.060 (urban criteria). The District is proposing to allow the 0.083 maximum superelevation rate to remain. The Design Build Team may use either rural or urban superelevation rates along IR 90, SR 2 and SR 57 ramps in the design. Urban rates shall be used for the reconstructed SR 254 ramps. The Design Build Team shall submit superelevation transition calculations for the three lane sections of IR 90 with the Interim Design submission showing how the three lane transitions will be developed.

Does the requested Design 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

LOR-90-10.76

PID: 107714; Request 02

Letting Type: ODOT-Let

Design Designation							
		0090; 11.96-18.61					
Current ADT (2025)	65,600	Td	13%				
Design Year ADT (2045)	77,430	Design Speed	65				
Design Hourly Volume (2045)	7,930	Legal Speed	65				
Directional Distribution	57%	Design Functional Class	1 - Interstates				
Trucks (24hr B&C)	11%	Functional Class Area Type	Urban				
		NHS Project	Yes				



Submitted By:

E-SIGNED by Karla Bohmer on 2024-04-17 10:18:17 EST

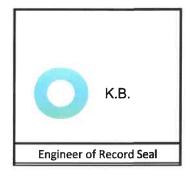
Karla Bohmer

(Engineer of Record)

Approved by:

E-SIGNED by Jennifer Alford on 2024-04-17 10:21:40 EST

Jennifer Alford Approval Date: 4/5/2024



LOR-90-10.76

PID: 107714; Request 02

	Cont	rolling Criteria Identification	
		Section: 0090; 11.96-18.61	
Controlling Criteria	Standard	Existing (a.)	Proposed
Lane Width			
Shoulder Width			
Horizontal Curve Radius			
Maximum Grade			
SSD (Horizontal & Crest	645'	EB I-90 over Ford Road: 598'	EB I-90 over Ford Road: 598'
Vertical)		WB I-90 over Ford Road: 645'	WB I-90 over Ford Road: 579'
Pavement Cross Slope			
	0.060 max (urban)	SR 57 Interchange Ramps: 0.083	SR 57 Interchange Ramps: 0.083
		Curve with P.I. at Sta. 719+72:	Curve with P.I. at Sta. 719+72: 0.064
		0.064	Curve with P.I. at Sta. 750+88: 0.083
	1	Curve with P.I. at Sta. 750+88:	Curve with P.I. at Sta. 796+98: 0.083
Superelevation Rate		0.083	
		Curve with P.I. at Sta. 796+98: 0.083	
	16.5 ft	IR 90 under SR 254 (SFN	IR 90 under SR 254 (SFN 4706277): 15 ft
Vertical Clearance		4706277): 15 ft	
Design Loading Structural			
Capacity			

Project Description

PID 107714 is a major rehabilitation design build project. This project will replace 7.50 miles and resurface 0.30 miles of IR-90 while widening to add a third lane in each direction from the I-90/SR-2 split to the French Creek Bridge. This project will also replace approximately 0.52 miles of SR-2 from the Murray Ridge Road bridges to IR-90.

Work also includes: Full ramp replacement and widening at the SR-254 interchange; noise wall construction; drainage and BMP modifications; lighting modifications; ITS; guardrail replacement; traffic control; bridge deck replacement for two bridges, right of way fence replacement, and miscellaneous bridge repairs.

Section Description

IR 90, SLM 11.96 (SR 2) to SLM 18.61 (French Creek Structures)

Proposed Mitigation	
None.	
None.	

Support for Deviation (Benefit-cost, R/W, Environmental, Constructability, Coordination with Other Projects, Relationship between any crash patterns and proposed design exception, etc.):

The existing corridor was designed for a maximum superelevation rate of 0.083 (rural criteria). Existing bridge infrastructure to remain prevents full conversion to maximum superelevation rate of 0.060 (urban criteria). The District is proposing to allow the 0.083 maximum superelevation rate to remain. The Design Build Team may use either rural or urban superelevation rates along IR 90, SR 2 and SR 57 ramps in the design. Urban rates shall be used for the reconstructed SR 254 ramps. The Design Build Team shall submit superelevation transition calculations for the three lane sections of IR 90 with the Interim Design submission showing how the three lane transitions will be developed.

The proposed work to SFN 4706277 (SR 254 over IR 90) includes the installation of 6' tall vandal protection fence along the full length of both bridge parapets. The Design Build Team will be required to maintain existing eastbound and westbound vertical clearances under SR 254 with the project.

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

LOR-90-10.76

PID: 107714; Request 03

Letting Type: ODOT-Let

		Design Designatio	n
		0002; 10.71-11.23	
Current ADT (2025)	53,930	Td	6%
Design Year ADT (2045)	60,590	Design Speed	65
Design Hourly Volume (2045)	6,280	Legal Speed	65
Directional Distribution	54%	Design Functional Class	1 - Interstates
Trucks (24hr B&C)	6%	Functional Class Area Type	Urban
		NHS Project	Yes



Submitted By:

E-SIGNED by Karla Bohmer on 2024-04-17 10:19:07 EST

Karla Bohmer

(Engineer of Record)

Approved by:

E-SIGNED by Jennifer Alford on 2024-04-17 10:22:21 EST

K.B.
Engineer of Record Seal

Jennifer Alford

Approval Date: 4/5/2024

LOR-90-10.76

PID: 107714; Request 03

	Cont	rolling Criteria Identification						
Section: 0002; 10.71-11.23								
Controlling Criteria	Standard	Existing (a.)	Proposed					
Lane Width								
Shoulder Width								
Horizontal Curve Radius								
Maximum Grade								
SSD (Horizontal & Crest	645'	EB SR 2 under WB I-90: 627'	EB SR 2 under WB I-90: 627'					
Vertical)								
Pavement Cross Slope								
	0.06 max (urban)	EB SR 2 curve with P.I. near Sta.	EB SR 2 curve with P.I. near Sta. 583+30: 0.081					
Superelevation Rate		583+30: 0.081						
Vertical Clearance								
Design Loading Structural								
Capacity								

Project Description

PID 107714 is a major rehabilitation design build project. This project will replace 7.50 miles and resurface 0.30 miles of IR-90 while widening to add a third lane in each direction from the I-90/SR-2 split to the French Creek Bridge. This project will also replace approximately 0.52 miles of SR-2 from the Murray Ridge Road bridges to IR-90.

Work also includes: Full ramp replacement and widening at the SR-254 interchange; noise wall construction; drainage and BMP modifications; lighting modifications; ITS; guardrail replacement; traffic control; bridge deck replacement for two bridges, right of way fence replacement, and miscellaneous bridge repairs.

Section Description

SR 2, SLM 10.71 (Murray Ridge Structures) to 11.23 (IR 90)

Proposed Mitigation None.					
None.					

Support for Deviation (Benefit-cost, R/W, Environmental, Constructability, Coordination with Other Projects, Relationship between any crash patterns and proposed design exception, etc.):

The existing corridor was designed for a maximum superelevation rate of 0.083 (rural criteria). Existing bridge infrastructure to remain prevents full conversion to maximum superelevation rate of 0.060 (urban criteria). The District is proposing to allow the 0.083 maximum superelevation rate to remain. The Design Build Team may use either rural or urban superelevation rates along IR 90, SR 2 and SR 57 ramps in the design. Urban rates shall be used for the reconstructed SR 254 ramps. The Design Build Team shall submit superelevation transition calculations for the three lane sections of IR 90 with the Interim Design submission showing how the three lane transitions will be developed.

Does the requested Design 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