

STATE OF TENNESSEE

# DEPARTMENT OF TRANSPORTATION

(     )      -

## JOHN C. SCHROER BILL HASLAM

 COMMISSIONER GOVERNOR

**TO**:      , Choose an item.

**FROM:** **,** Choose an item.

**DATE:**

**SUBJECT: DESIGN EXCEPTION REQUEST AND JUSTIFICATION**

|  |  |
| --- | --- |
| Project No. |       |
| PIN No. |        |
| Project Description: |       |
| NHS | YES NO |
| State Route | YES NO |

**DESIGN CONTROLLING CRITERIA FOR WHICH EXCEPTION IS REQUESTED:**

**APPLICABLE FOR ALL NHS ROADWAYS**

Design Speed [ ]  Design Loading Structural Capacity [ ]

**APPLICABLE FOR NHS ROADWAYS WITH DESIGN SPEED ≥ 50 MPH**

Lane Width [ ]  Cross Slopes [ ]

Horizontal Curve Radius [ ]  Vertical Clearance [ ]

Stopping Sight Distance [ ]  Superelevation Rate [ ]

Shoulder Width [ ]   Maximum Grade [ ]

**DESCRIBE THE REASONING OF THE DESIGN EXCEPTION REQUEST:**

**PROJECT DESIGN DATA:**

|  |  |
| --- | --- |
| Highway Functional Classification: (Green Book 2011 Section 1.3) | Principal Arterial [ ]  Arterial [ ]   Connector [ ]  Local road [ ]   |
| Rural or Urban area: |       |
| Roadway Design Standard Drawing: |       |
| Existing Design Speed:Existing Posted Speed:  |            |
| Proposed Design Speed:Proposed Posted Speed:  |            |
| Type of Terrain:  | Level [ ]  Rolling [ ]  Mountainous [ ]  |
|  |  |
| Traffic Data: | ADT (20     ):       | D:       |
|  | ADT (20     ):       | T:       |
|  | DHV:       | V:       |

**GEOMETRIC DESIGN DATA FOR Location of the requested DESIGN EXCEPTION:**

 **Standard Existing Proposed N/A**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Cross Slope (tangent section): | 2 % |  |       |  |       |  | [ ]  |
| Max. Superelevation Rate: |       |  |       |  |       |  | [ ]  |
| Minimum Radius of Curve: |       |  |       |  |       |  | [ ]  |
| Minimum Stopping Sight Distance: |       |  |       |  |       |  | [ ]  |
| Passing Sight Distance: |       |  |       |  |       |  | [ ]  |
| Crest Vertical Curve “K”: |       |  |       |  |       |  | [ ]  |
| Sag Vertical Curve K: |       |  |       |  |       |  | [ ]  |
| Maximum Grade: | 14% |  |       |  |       |  | [ ]  |
| Design Loading: |       |  |       |  |       |  |  |

**ROADWAY TYPICAL SECTION**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Lane Width: |       |  |       |  |       |  | [ ]  |
| Outside Shoulder width: |       |  |       |  |       |  | [ ]  |
| Inside Shoulder width: |       |  |       |  |       |  | [ ]  |
| Clear Zone width: |       |  |       |  |       |  | [ ]  |

**BRIDGE DESIGN FEATURES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Traffic Lane Widths: |       |  |       |  |       |  | [ ]  |
| Outside Shoulder Widths: |       |  |       |  |       |  | [ ]  |
| Inside Shoulder Widths: |       |  |       |  |       |  | [ ]  |
| Sufficiency Rating: |       |  |       |  |       |  | [ ]  |
| Vertical Clearance |       |  |       |  |       |  | [ ]  |
|  To Navigational Waterway: |       |  |       |  |       |  | [ ]  |
|  To Other Highway: | 16.5 ft. |  |       |  |       |  | [ ]  |
|  To Railroad: | 23 ft. |  |       |  |       |  | [ ]  |

**OTHER FACTORS CONSIDERED FOR THE EXCEPTION REQUEST:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **YES** | **NO** | **N/A** |
| **SAFETY** |  |  |  |
| Accident history data has been reviewed.  |  |  |  |
| All roadway and roadside safety mitigation measures have been considered and provided. |  |  |  |
| The proposed variance from the minimum roadway design standards does not adversely affect the safety of the facility. |  |  |  |
| **The Highway Safety Manual is used to justify the design exception.**  |  |  |  |
| **OPERATIONS** |  |  |  |
| The operation of the proposed typical cross-section is comparable with operation of the adjacent cross-sections. |  |  |  |
| The proposed design does not cause a reduction in capacity or adversely affect traffic flow of the facility. |  |  |  |
| The proposed design does not adversely effect long-term operations. |  |  |  |
| **ROADWAY DESIGN** |  |  |  |
| It is not feasible to meet the minimum roadway design standards due to right-of-way restrictions, environmental impacts, etc. |  |  |  |
| The proposed design maintains the same level of service compared to the design based on minimum roadway design standards. |  |  |  |
| The proposed design results in a significant cost savings compared to the design based on minimum roadway design standards.  |  |  |  |
| The proposed design can meet minimum roadway design standards in the future. |  |  |  |

**JUSTIFICATION OF DESIGN EXCEPTION:**

**Please provide detailed justification for the each item checked NO above**

|  |
| --- |
|       |

[ ]  Attachments

**DESIGN EXCEPTION IS REVIEWED AND RECOMMENDED**

**FOR APPROVAL BY:**

|  |  |  |
| --- | --- | --- |
|  |  |        |
| Choose an item. |  | **Date** |

[ ]  Reviewer Comments Attached

**APPROVED BY:**

|  |  |  |
| --- | --- | --- |
|  |  |        |
| Choose an item. |  | **Date** |