

Roadway Group

Overview of CA Compliance Checklists

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August 16, 2023

CA Compliance Checklist Overview

- Roadway Design Guidelines
- Design Exceptions & Variances
- Pavement Design Guidelines

Roadway: Design Guidelines

Agency Document Reviewed By ADOT LPA Section

- Roadway Design Guidelines

Submit to ADOT LPA Section before November 3, 2023

Assessment Questions

Question	Y/N	Document, Page, Paragraph (for comments)	Check if changed since 2013	Item of Concern (see notes)
What is your process on having staff on Roadway Design Guidelines when managing locally funded projects? <i>(On Local AGS Roadways)</i>				
Please provide the Agency's Adopted Roadway Design Standards for the design and construction of Local AGS Roadways, for review by the Agency's Adopted Roadway Design Standards incorporate and conform to the applicable ADOT Design Guidelines and AASHTO Controlling Design Criteria? <i>(On Local AGS Roadways)</i>				
Please provide the Agency's Adopted Roadway Design Standards for the design and construction of Local non-AGS Roadways, for review by the Agency's Adopted Roadway Design Standards incorporate and conform to the applicable ADOT Design Guidelines and AASHTO Controlling Design Criteria? <i>(On Local non-AGS Roadways)</i>				
Does the Agency's Adopted Roadway Design Standards for the design and construction of Local non-AGS Roadways, for review by the Agency's Adopted Roadway Design Standards incorporate and conform to the applicable ADOT Design Guidelines and AASHTO Controlling Design Criteria? <i>(On Local non-AGS Roadways)</i>				
All other applicable adopted and published ADOT and AASHTO design standards and guidelines?				

Roadway: Design Exceptions & Variances

Agency Document Reviewed By ADOT Roadway Engineering Group

- Design Exception Procedures

Submit to ADOT LPA Section before November 3, 2023

Assessment Questions

Question	Y/N	Document, Page, Paragraph (for comments)	Check if changed since 2013	Item of Concern (see notes)
What is your process on having design Exception & Variance documentation, including all agreed requirements and process to staff when managing locally funded projects? <i>(On Local AGS Roadways)</i>				
Does the Agency's design Exception & Variance procedure (process(es)) that follows Roadway Engineering procedure and requirements for review and approval? <i>(On Local AGS Roadways)</i>				
On the Agency's procedure follow the Roadway Design Exception requirements, process(es) and requirements for review and approval? <i>(On Local AGS Roadways)</i>				
On the Agency's procedure follow the Roadway Design Exception requirements, process(es) and requirements for review and approval? <i>(On Local non-AGS Roadways)</i>				
On the Agency's procedure follow the Roadway Design Exception requirements, process(es) and requirements for review and approval? <i>(On Local non-AGS Roadways)</i>				

Roadway: Pavement Design

Agency Document Reviewed By ADOT LPA Section

- Pavement Design Guidelines

Submit to ADOT LPA Section before November 3, 2023

Assessment Questions

Question	Y/N	Document, Page, Paragraph (for comments)	Check if changed since 2013	Item of Concern (see notes)
What is your process on having Roadway/Pavement Staff on managing locally funded projects? <i>(On Local AGS Roadways)</i>				
Please provide the Agency's Pavement Design Standards for the design and construction of local AGS Roadways, for review by the Agency's Adopted Roadway Design Standards incorporate and conform to the applicable ADOT Design Guidelines and AASHTO Controlling Design Criteria? <i>(On Local AGS Roadways)</i>				
Please provide the Agency's Pavement Design Standards for the design and construction of local non-AGS Roadways, for review by the Agency's Adopted Roadway Design Standards incorporate and conform to the applicable ADOT Design Guidelines and AASHTO Controlling Design Criteria? <i>(On Local non-AGS Roadways)</i>				
Does the Agency's Pavement Design Standards for the design and construction of local non-AGS Roadways, for review by the Agency's Adopted Roadway Design Standards incorporate and conform to the applicable ADOT Design Guidelines and AASHTO Controlling Design Criteria? <i>(On Local non-AGS Roadways)</i>				
All other applicable adopted and published ADOT and AASHTO design standards and guidelines?				

Roadway Design Guidelines

Assessment Questions

Question	Y/N	Document, Page, Paragraph <i>(To be completed by CA)</i>	Check if changed since 2019 <i>(CA to complete)*</i>	Item of Concern <i>(SME use only)*</i>
What is your process on training staff on Roadway Design Guidelines when managing federally funded projects?				
On Local NHS Roadways:				
Please provide the Agency's Adopted Roadway Design Standards for the design and construction of Local NHS Roads/Streets, for review.				
Do the Agency's Adopted Roadway Design Standards incorporate and conform to the applicable AASHTO Design Guidelines and AASHTO Controlling Design Criteria?				
On Local non-NHS Roadways:				
Please provide the Agency's Adopted Roadway Design Standards for the design and construction of Local non-NHS Roads/Streets, for review.				

Key Notes:

1. Provide documentation that Agency's Roadway Design Standards have been "adopted" by the applicable agency.
2. Road Design Standards on the NHS must conform with applicable AASHTO Guidance.

Roadway Design Guidelines

For Agency Projects within ADOT Right-of-Way, do the Agency's Adopted Roadway Design conform and comply with the following:				
AASHTO Controlling Design Criteria?				
ADOT Roadway Design Guidelines (RDG)?				
All other applicable adopted and published ADOT and AASHTO design standards and guidelines?				

Key Notes:

1. Provide documentation agency projects located within ADOT ROW will comply with AASHTO **AND** ADOT Roadway Design Guidelines.

Design Exceptions & Variances

Assessment Questions

Question	Y/N	Document, Page, Paragraph <i>(To be completed by CA)</i>	Check if changed since 2019 <i>(CA to complete)*</i>	Item of Concern <i>(SME use only)*</i>
What is your process on training Design Exception & Variance documentation, evaluation and approval requirements and process to staff when managing federally funded projects?				
Please provide the Agency's Design Exception & Variance procedure (procedure/s) that follows FHWA Design Exception procedures and requirements for review and approval.				

Key Notes:

1. Provide the agency's documentation and approval process for variances from AASHTO and Agency Roadway Design Standards?
i.e.. What is required to approve features not conforming to published design values/standards?

Design Exceptions & Variances

On Local - NHS Roadways:				
Do the Agency's procedures follow the FHWA Design Exception requirements & procedures?				
Do the Agency's procedures address documentation and requirements for addressing exceptions to the AASHTO Controlling Design Criteria?				
Do the procedures include submitting to and obtaining approval from the FHWA for design exceptions and obtaining required environmental clearances prior to federal authorization of funding?				
On Local Non - NHS Roadways:				
Do the Agency's procedures address processes and requirements for documenting design exceptions and variances on Non-NHS Roadways?				

10 Controlling Criteria:

- Design Speed**
- Lane Width
- Shoulder Width
- Horizontal Curve Radius
- Superelevation Rate
- Stopping Sight Distance
- Maximum Grade
- Cross Slope
- Vertical Clearance
- Design Loading Structural Capacity**

Key Notes:

1. FHWA Guidance on Design Exception documentation and approval process can be found on ADOT's Website, or in guidance provided by FHWA (May 5, 2016): Revisions to the Controlling Criteria for Design and Documentation for Design Exceptions: <https://www.fhwa.dot.gov/design/standards/160505.cfm>
2. Minimum Documentation Requirements:
 - Specific design criteria that will not be met.
 - Existing roadway characteristics.
 - Alternatives considered.
 - Comparison of the safety and operational performance of the roadway and other impacts such as right-of-way, community, environmental, cost, and usability by all modes of transportation.
 - Proposed mitigation measures.
 - Compatibility with adjacent sections of roadway.

**Apply to all NHS Facility Types. The remaining eight apply only to "high-speed" routes (greater than or equal to 50mph)

Design Exceptions & Variances

For Agency Projects within ADOT Right-of-Way:				
Do the Agency's procedures follow FHWA and ADOT Design Exception & Variance procedures?				
Do the Agency's procedures address documentation and requirements for addressing exceptions and variances to the AASHTO Controlling Design				
Criteria and ADOT Roadway Design Guidelines?				
Do the procedures include submitting to and obtaining approval from ADOT and the FHWA for design exceptions or variances and obtaining a required environmental clearance prior to federal authorization of funding?				

Key Notes:

- ADOT Guidance on Design Exception & Variance documentation and approval process can be found on ADOT's Website.
<https://azdot.gov/business/engineering-and-construction/roadway-engineering/roadway-design-standards-and-guidelines>
- FHWA guidance provided by FHWA (May 5, 2016): Revisions to the Controlling Criteria for Design and Documentation for Design Exceptions:
<https://www.fhwa.dot.gov/design/standards/160505.cfm>
- Minimum Documentation Requirements: (See previous slide)

Pavement Design Guidelines

Assessment Questions

Question	Y/N	Document, Page, Paragraph <i>(To be completed by CA)</i>	Check if changed since 2019 <i>(CA to complete)*</i>	Item of Concern <i>(SME use only)*</i>
What is your process on training Roadway/Pavement staff on managing federally funded projects?				
On Local NHS Roadways:				
Please provide the Agency's Pavement Design Standards for the design and construction of Local NHS Roads/Streets, for review.				
Is MAG Uniform Standard Specifications and Details incorporated?				
Is PAG Standard Specifications for Public Improvements incorporated?				
For NHS Roadways, do the Agency's standards comply with 23 CFR 626?				
On Local Non - NHS Roadways:				
Please provide the Agency's Pavement Design Standards for the design and construction of Local non-NHS Roads/Streets, for review.				
Is MAG Uniform Standard Specifications and Details incorporated?				
Is PAG Standard Specifications for Public Improvements incorporated?				

Key Notes:

1. Provide documentation that Agency's Pavement Design Standards have been "adopted" by the applicable agency.
2. Pavement Design Standards must comply with 23 CFR 626:

FHWA's Pavement Policy is defined by (23 CFR 626) Title 23 CFR 626, which states: "Pavement shall be designed to accommodate current and predicted traffic needs in a safe, durable, and cost-effective manner." Regulations do not specify procedures to follow to meet the requirement. Instead, each State highway agency is expected to use a design procedure appropriate for its conditions.

Pavement Design Guidelines

For Agency Projects within ADOT Right-of-Way, do the Agency's Pavement Design Guidelines comply with the following:				
ADOT Standard Specifications for Road and Bridge Construction and Stored Specifications.				
ADOT Pavement Design Manual.				
AASHTO Design Guidelines.				

Key Notes:

1. Provide documentation that Agency's Pavement Design Standards have been "adopted" by the applicable agency.
2. Pavement Design Standards must comply with 23 CFR 626:

FHWA's Pavement Policy is defined by (23 CFR 626) Title 23 CFR 626, which states: "Pavement shall be designed to accommodate current and predicted traffic needs in a safe, durable, and cost-effective manner." Regulations do not specify procedures to follow to meet the requirement. Instead, each State highway agency is expected to use a design procedure appropriate for its conditions.

3. For improvements within an ADOT ROW, Pavement Design shall conform with ADOT's Pavement Design Manual and Design Guidelines.

Questions

