

APPENDIX A TO SUBPART D OF PART 635—SUMMARY OF ACCEPTABLE CRITERIA FOR SPECIFYING TYPES OF CULVERT PIPES

Type of drainage installation	Alternatives required			AASHTO designations to be included with alternatives	Application	Remarks
	Yes	No	Number			
Cross drains under high-type pavement. <sup>1</sup>	.....	X .....	.....	.....	Statewide .....	Any AASHTO-approved material. <sup>2</sup> Do. <sup>2</sup>
Other cross-drain installations.	X .....	.....	3 minimum	M-170 and M-190.	.....do .....	
Side-drain installations .....	X .....	.....	.....do .....	M-36 .....	.....do .....	Do. <sup>2</sup> Specified to meet special conditions.
Special installation conditions.	.....	X .....	.....	.....	Individual installation.	
Special drainage systems (storm sewers, inverted siphons, etc.).	.....	X .....	.....	.....	.....do .....	Specified to meet site requirements.

<sup>1</sup>High-type pavement is generally described as FHWA construction type codes I, J, K, L, and plant mix and penetration macadam segments, respectively shown in the right-hand columns of type codes G and H having a combined thickness of surface and base of 7 in or more (or equivalent) or that are constructed on rigid bases.

<sup>2</sup>Types not included in currently approved AASHTO specifications may be specified if recommended by the State with adequate justification and approved by FHWA.

**Subpart E—Interstate Maintenance Guidelines**

SOURCE: 45 FR 20793, Mar. 31, 1980, unless otherwise noted.

**§ 635.501 Purpose.**

To prescribe Interstate maintenance guidelines and establish the policy and procedures to insure that the condition of Interstate routes is maintained at the level required by the purposes for which they were designed.

**§ 635.503 Policy.**

The policy of the FHWA is to insure that each State highway agency develops and implements an Interstate maintenance program conforming to the guidelines in this subpart. The maintenance program shall be consistent with practices deemed necessary to adequately provide for motorist safety, preservation of the highways, rideability, and aesthetics.

**§ 635.505 Maintenance guidelines.**

(a) The following critical elements should serve to direct the development and implementation of an Interstate maintenance program in each State.

(1) *Roadway surfaces.* Preservation of the structural integrity of the roadway and the safety and comfort of the user. This includes a safe, smooth, skid-resistant surface, as close as practical to

the original, or subsequently improved, grade and cross section.

(2) *Shoulders.* Preservation of a safe, smooth surface which is free of obstruction, contiguous with the adjacent roadway surface, and as close as practical to the original, or subsequently improved, grade and cross section.

(3) *Roadside.* Preservation of the roadside in a safe, pleasant, and forgiving manner through vegetation management, erosion control, and litter pick-up.

(4) *Drainage.* Preservation of hydraulic capacity for which originally designed.

(5) *Bridges and tunnels.* Preservation of the structural and operational characteristics for which originally designed. These include safe, smooth, skid-resistant surfaces; proper surface drainage; and adequate functioning bearing devices and substructural elements. Replacement or repair of structural railing and approach guardrail should be done without unreasonable delay. Tunnels should be cleaned, properly lighted, and adequately ventilated.

(6) *Snow and ice control.* Preservation of the roadway safety, efficiency, and environment during winter driving conditions.

(7) *Traffic control devices.* Preservation of clean, legible, visible, and properly functioning traffic control devices. This includes pavement markings, signing, delineators, signals, etc.

(8) *Safety appurtenances.* Replacement of damaged, defective, and/or inoperable devices without unreasonable delay. This includes guardrails, impact attenuators, breakaway supports, barriers, etc.

(9) *Safety rest areas.* Preservation and operation of facilities reasonably necessary for the convenience, relaxation, and informational needs of the user.

(10) *Access control.* Preservation of the originally designed access control, elimination of unauthorized traffic movement, and prevention of improper or unauthorized use of the highway rights-of-way.

(11) *Traffic safety in maintenance and utility work zones.* Procedures that will aid the safety of motorists and maintenance workers. The procedures shall be consistent with the provisions of 23 CFR part 630, subpart J, and part VI of the Manual on Uniform Traffic Control Devices.<sup>1</sup>

(b) All replacements and repairs should conform to the currently approved design standards (23 CFR part 625) for all critical elements listed in paragraph (a) of this section. Exceptions for minor repairs must be clearly defined in a State's maintenance program.

(c) These guidelines shall be interpreted to expect that repairs and maintenance will be performed without unreasonable delay, that variations from the State's approved program will be allowed in situations involving emergency or unforeseeability, and that the State will seek to attain a high level of maintenance.

#### § 635.507 Implementation.

(a) Each State highway agency shall prepare an initial program submission which shall include a description of the State's Interstate maintenance program; a discussion of the method by

which the State manages its program, including copies of operating documents; and a general description of the level of resources and activity the State intends to devote to attain the objectives stated under each of the critical elements in § 635.505(a). This initial submission shall be made to the FHWA no later than 120 days after the effective date of this subpart. The FHWA shall review each State's initial program submission for conformance with the provisions of this subpart and approve or disapprove the submission on the basis of that review.

(b) Within one year after the effective date of this subpart, and by January 1 of each subsequent year, each State highway agency shall certify to the FHWA that it has an Interstate maintenance program as required by this subpart and that its Interstate routes are being maintained in accordance with that program.

(c) Beginning in 1981 and each year thereafter, each State highway agency shall update its initial program submission by providing the FHWA with a discussion of:

(1) The condition of the State's Interstate routes and deficiencies,

(2) State maintenance priorities,

(3) The State maintenance budget, and

(4) Exceptions and/or revisions to the initial submission.

(d) The FHWA shall review each State's annual submission for conformance with the provisions of this subpart and monitor the implementation of each State's program in accordance with the review procedures described in the FHWA Maintenance Review Manual<sup>2</sup> and the Federal-Aid Highway Program Manual, volume 6, chapter 4, section 3, subsection 1.<sup>3</sup> If differences between the State and the FHWA cannot be resolved concerning the adequacy of the Interstate maintenance program's level of resources and activity, the FHWA shall initiate action under § 635.509.

<sup>1</sup>Available for purchase from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402 (GPO Stock Number 050-001-81001-8), and for inspection and copying as prescribed in 49 CFR 7, app. D.

<sup>2, 3</sup>Available for inspection and copying as prescribed in 49 CFR part 7, appendix D.