

Texas Department of Transportation
IH 635 Managed Lanes Project
Technical Provisions

Attachment 19-2A

Amendment for the Texas Reference Marker System
Users Manual, TxDOT Maintenance and Operations
Manual, TxDOT Pavement Design Manual, TxDOT
Maintenance Management Manual, NCHRP 350, and
TxDOT Bridge Inspection Manual

AMENDMENTS FOR THE:
Texas Reference Marker (TRM) System User's Manual, January 2005 General

General

Access to the TPP Database shall be coordinated through TxDOT. All input and supplemental data entry shall be the responsibility of Developer.

Manual Notices

Delete

Chapter 1

Section	Subheading	Modification
1	Introduction to TRM	Retain
2	Key Points to Know	Delete except for subsection "Official TRM Location Key"
3	Data Maintenance Responsibility	Replace with "Developer shall provide with TPP all information necessary to enter and maintain facility in TRM."
4	Establishing a Route	Replace with "Developer shall coordinate with TPP to establish a reference marker system on the facility."

Chapter 2

Retain

Chapter 3

Retain

Chapter 4

Retain

Chapter 5

Retain

Chapter 6

Retain

Chapter 7

Retain

Chapter 8

Retain

Chapter 9

Retain

Chapter 10

Retain

Chapter 11

Retain

Chapter 12

Retain

Chapter 13

Retain

Chapter 14

Retain

Chapter 15

Retain

Appendix A

Retain

AMENDMENTS FOR THE *TxDOT Maintenance and Operations Manual (MOM)*

Manual Notices

Delete

Chapter 1 – Pavement

Delete

Chapter 2 – Roadside

Section	Subheading	Modification
1	Overview	Delete
2	Litter	Replace TxDOT with Developer. Replace Department with Developer
3	Vegetation Management	Replace TxDOT with Developer. Replace Department with Developer
4	Roadside Drainage	Replace TxDOT with Developer.
5	Culverts and Storm Drains	
6	Safety Rest Areas and Picnic Areas	Delete
7	Guardrail, Barriers and Attenuators	
8	Stockpiles on Right of Way	Delete
9	Fire Control and Prevention	Delete

Chapter 3 – Bridges

Delete

Chapter 4 – Traffic Operations

Section	Subheading	Modification
1	Overview	Delete
2	Signs	
3	Signals and Illumination	Delete
4	Pavement Markings and Delineators	

Chapter 5 – Emergency Operations

Delete

Chapter 6 – Work For or By Others

Delete

AMENDMENTS FOR THE *TxDOT Pavement Design Manual*

Manual Notices

Delete

Chapter 1 – Introduction

Delete

Chapter 2 – Flexible Pavement Design

Delete

Chapter 3 – Rigid Pavement Design

Delete

Chapter 4 – Load Zoning

Delete

Chapter 5 – Wet Weather Accident Reduction Program (WWARP)

Section	Subheading	Modification
1	Overview	Delete
2	Wet Weather Accident Analysis (Phase I)	Replace Traffic Operations Division with Developer Delete sentence beginning with “Each year the Traffic Operations Division...” Replace TxDOT with Developer Replace CST/M&P with Developer
3	Aggregate Selection (Phase II)	Delete
4	Skid Testing (Phase III)	Replace CST/M&P with Developer Pavement Management Information System (PMIS) is to be provided by the Developer for organizing the skid data.

Chapter 6 – Other Pavement-Related Activities

Delete

AMENDMENTS FOR THE *TxDOT Maintenance Management Manual (MMM)*

Manual Notices

Delete

Chapter 1 – Definitions and Planning

Delete

Chapter 2 – Budgeting

Delete

Chapter 3 – Level of Service

Delete

Chapter 4 – Contracting and Purchasing

Delete

Chapter 5 – Agreements, Permits and Reports

Section	Subheading	Modification
1	Overview	Delete
2	Municipal Maintenance Agreements	Delete
3	Personal Injury and Property Damage Claims	Delete
4	River Water Use Certification	Delete
5	Wetlands/Streambed Permits	Delete
6	Storm Water Management	Delete
7	Major Accident or Unusual Incident Reporting	Delete
8	Highway Condition Reporting System	Replace TxDOT with Developer Replace Department with Developer
9	Storage Site Agreements	Delete

Chapter 6 – Management Information Systems

Section	Subheading	Modification
1	Overview of Maintenance Management Information System	Delete second paragraph under Maintenance Management Information System
2	Maintenance Management Information System	Retain
3	Pavement Management Information System	Retain

Chapter 7 – Emergency Management

Delete

**AMENDMENTS FOR THE
NCHRP Report 350, Recommended Procedures for the Safety Performance
Evaluation of Highway Features**

Foreword

Delete

Summary

Delete

Chapter 1 - Introduction

Delete

Chapter 2 – Test Parameters

Retain

Chapter 3 – Test Conditions

Section	Subheading	Modification
All		Retain with the following modifications: <ul style="list-style-type: none">• Delete Section 3.1 – General• Revise footnote “a” in Table 3.1 to read “Test is optional.”

Chapter 4 – Data Acquisition

Retain

Chapter 5 – Evaluation Criteria

Retain

Chapter 6 – Test Documentation

Retain

Chapter 7 – Implementation and In-Service Evaluation

Delete

Appendix A-J

Delete

AMENDMENTS FOR THE *TxDOT Bridge Inspection Manual*

Manual Notices

Delete

Chapter 1 – Introduction

Section	Subheading	Modification
1	About this Manual	Delete
2	Style of Manual Text	Retain

Chapter 2 – History of Bridge Inspection

Section	Subheading	Modification
1	Initial Reasons for Bridge Inspection	Delete
2	Primary References	Retain
3	AASHTO Inspection Manuals	Delete
4	Federal and State Inspection Procedures	Retain

Chapter 3 – Qualifications, Responsibilities and Duties of Bridge Inspection Personnel

Section	Subheading	Modification
1	Requirements	Delete paragraph entitled TxDOT Requirements
2	TxDOT Bridge Inspection Personnel	Delete
3	Bridge Inspection by Consultants	Replace “TxDOT” with “Developer” Delete “on- and off-system” Delete the sentence starting with “Bridge inspection contracts are developed...”
4	Use of Consultant Pool	Retain only the section entitled “Managing Consultant Bridge Inspection”, first paragraph and bullets 1, 2, and 3. Replace in the retained section “Bridge Inspection Branch” with “Developer” Delete “Bridge Division” Delete “district”

Chapter 4 – Field Inspection Requirements

Replace all reference to “Bridge Division”, “District”, “District Bridge Inspector” with “Developer”

Section	Subheading	Modification
1	Types of Bridge Inspection	Retain
2	Initial Inspections	Applicable only to the new bridges. Existing bridges have prior inspection records available from TxDOT. Delete second main bullet Delete “, particularly an off-system bridge,” Delete final bullet
3	Routine Inspections	In the paragraph “Inspection Equipment” delete the last two sentences of the last paragraph. Delete the paragraph “Interim Inspections.
4	Damage Inspections	Retain
5	In-Depth Inspections	Retain
6	Special Inspections	Retain

Chapter 5 – Ratings and Load Postings

Section	Subheading	Modification
1	Overview	Retain
2	Condition Ratings	Retain
3	Appraisal Ratings	Retain
4	Load Ratings	Delete
5	Legal Loads and Load Posting	Delete

Chapter 6 – Routine and Permits

Delete

Chapter 7 – Bridge Programming

Section	Subheading	Modification
1	Basis for Bridge Rehabilitation	Retain
2	Federal Bridge Program	Delete Section “Funding Classifications” Delete Section “Qualification for Rehabilitation or Replacement” Delete Section “Texas Eligible Bridge Selection System
3	Sufficiency Ratings	Retain
4	Bridge Management System	Delete entire section. Refer to MMIS in TP19

Chapter 8 – Bridge Records

Section	Subheading	Modification
1	Overview	Replace "TxDOT" with "Developer"
2	Definition of Terms	Delete "Bridge Folder" paragraph and all reference to "Bridge Folder" Replace "off-system" with "bridge" Replace "on-system" with "bridge" Replace "Bridge Inventory File" and all reference to "Bridge Inventory File" with "MMIS" Delete "Control-Section Job (CSJ) Numbers" paragraph and all reference to "Control-Section Job (CSJ) Numbers" or "CSJ" Delete "Elements Data" paragraph and all reference to "Elements Data" Delete all but the first sentence in the paragraph "Engineer" Delete "Forms" paragraph and all reference to "Forms" Delete "...and TxDOT policy." In the "Signing and Sealing" paragraph Delete "Work Authorization" paragraph and all reference to "Work Authorization"
3	Consultant Requirement	Replace "TxDOT" with "Developer" Replace "District Bridge Inspection Coordinator" with "Developer" Delete paragraph "E-Mail and Correspondence"
4	Coding Guidelines	Delete "on- and off-system" Delete paragraph "Summary of Instructions" Delete paragraph "Multiple Pipe Culverts" Replace wording in paragraph "Data Quality" with "Data updates reflecting changes to any bridge structure must be made within 90 days of the inspection. New, rebuilt or rehabilitated structures must be reported within 90 days of completion." Delete paragraph "Elements Data"
5	Forms	Delete
6	Calculations	Delete
7	Data Submittal	Replace "TxDOT" with "Developer" In paragraph "General Data Submittal Requirements" delete the first two paragraphs. Replace "Bridge Folder" with "MMIS" Replace the text of paragraph "Electronic Media" with "All applicable data entered into the MMIS must be available to TxDOT on-line or on a CD with files compatible with Microsoft Office applications." In the paragraph "Presentation of Documents" replace the first two paragraphs with "The Developer must provide the required information in electronic format compatible with Microsoft Office applications to TxDOT" Delete the paragraph "Original and Duplicate Files" Delete the paragraph "Additional Files" Delete the paragraph "Summary Reports" Delete the paragraph "Summary of New Load Posting Materials"
8	The Bridge Folder	Delete

Appendix A – State and Federal Regulations

Retain. This section provides a quick reference to national and state codes and identifies the responsible party for enforcing the codes.

Appendix B – Bridge Inspection Data

Delete and replace with “Bridge inspection data is to be entered into the MMIS. The MMIS must be capable of tracking all of the bridge elements, ratings, deficiencies and repairs identified.”

Appendix C – Links to Coding Guidelines

Retain