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To: District Engineers

From: Camille Thomason, P.E.
Director, Design Division

DocuSigned by:
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Subject: Revised Roadway Standards

The following changes have been made to the roadway standards sheets.

The standard sheets will be applicable to all new construction projects beginning with the February 2020 letting. The use of these sheets prior to that date is at the option of the district. The new standards are available from the Roadway Standards web page in Microstation® "dgn" and Adobe "pdf" format. See <http://www.dot.state.tx.us/insddot/orgchart/cmd/cserve/standard/rdwylse.htm> Please distribute this information to the appropriate district staff and area offices, as well as consulting engineers working on TxDOT projects.

The following represents the standard sheets changed.

GF(31)-19 The GF(31)-19 is a replacement of GF(31)-14. The standard has been updated to reflect a reduced post embedment depth for the wood post systems (round post and rectangular), and increased post diameter to 7.5" for the round wood post system. The total length of the round wood post is 72" and the rectangular wood post is 68" in total length. The steel post system remains the same as the GF(31)-14 system. This system is MASH TL-3 compliant.

GF(31)RTL3-19 The GF(31)TR TL3-19 is a replacement of GF(31)TR-14. The thrie beam transition standard has been updated to reflect the changes to the guard fence wood post systems. An additional required design detail has been added for curbs that extend beyond Post 7. This system is MASH TL-3 compliant.

GF(31)RTL2-19 The GF(31)TR TL2-19 is a replacement of GF(31)TL2-11. The low speed transition standard has been updated to reflect the changes to the guard fence wood post systems. This system is MASH TL-2 compliant.

GF(31)T101-19 The GF(31)T101-19 is a replacement of GF(31)T101-13. The T101 transition standard has been updated to reflect the changes to the guard fence wood post systems. This standard provides a transition between the new metal beam guard fence system to a T101 bridge rail. This system is assessed as NCHRP 350 compliant (T101 Bridge Rail is NCHRP 350 compliant).

GF(31)T6-19 The GF(31)T6-19 is a replacement of GF(31)T6-14. The T6 transition standard has been updated to reflect the changes to the guard fence wood post systems. This standard provides a transition between the new metal beam guard fence system to a T6 bridge rail. This system is assessed as NCHRP 350 compliant (T6 Bridge Rail is NCHRP 350 compliant).

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GF(31)LS-19 The GF(31)LS-19 is a replacement of GF(31)LS-17. The dimensions and embedment of the rectangular CRT post for the long span system remain the same as the old standard. The General Notes have been updated for additional clarity. This system is MASH TL-3 compliant.

GF(31)MS-19 The GF(31)MS-19 is a replacement of GF(31)MS-17. The mow strip standard has been updated for exclusive use with round wood post and steel post systems only. This system is MASH TL-3 compliant.

GF(31)DAT-19 The GF(31)DAT-19 is a replacement of GF(31)DAT-14. The DAT standard has been updated with an updated dimension on the end section. This system is MASH TL-3 compliant.

RAIL-ADJ(A)-19 The RAIL-ADJ(A)-19 is a new standard that provides a transition from a 28" to 31" metal beam guard fence. The transition provides the needed adjustment to obtain a mid-span splice. This system is MASH TL-3 compliant.

RAIL-ADJ(B)-19 The RAIL-ADJ(B)-19 is a new standard that provides a transition from a 28" to 31" metal beam guard fence. The transition provides the needed adjustment to obtain a mid-span splice. This system is MASH TL-3 compliant.

The following seven standards have been categorized as "Interim (28 Inch) Barrier Flexible" since 2011, this is when the 31" metal beam guard fence standards were first introduced. The first two of these standards have been updated to specify they are only allowed for use in maintenance repairs or highly constrained site conditions.

MBGF-19 MBGF-19 replaces MBGF-11.

MBGF(SR)-19 MBGF(SR)-19 replaces MBGF(SR)-11.

The following five 28" interim standards have been updated to specify they are only allowed for use in maintenance repairs.

MBGF(TR)-19 MBGF(TR)-19 replaces MBGF(TR)-11.

MBGF(TL2)-19 MBGF(TL2)-19 replaces MBGF(TL2)-11.

MBGF(T101)-19 MBGF(T101)-19 replaces MBGF(T101)-11.

MBGF(MS)-19 MBGF(MS)-19 replaces MBGF(MS)-17.

BED(28)-19 BED(28)-19 replaces BED(28)-11.

The formal introduction of the 28" to 31" MBGF height adjustment standards should minimize the need for 28" standards for new installations. It is anticipated that in the future a sunset date will be established for the full implementation of the updated round wood and rectangular wood post systems. For extenuating situations where a 28" standard is required or if you have any questions regarding any of these standard details, please contact Kenneth Mora, P.E., Roadway Design Section Director at (512) 416-2678.

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