

Connecticut DOT

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Office of Engineering

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ENGINEERING BULLETIN

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Revised Highway & Guide Sheets Issued

The Highway Standard Sheet and Guide Sheet modifications have been made to the Department's Highway Standard Drawings and are now available online at <u>Highway Standard -</u> <u>Guide Sheet Web Page</u> and should be used on all projects, effective immediately:

New / Revised Highway Standard Drawings issued are:

HW-506_01a END WALLS and HW-506_01b STEEL REINFORCING FOR ENDWALLS Replaced existing drawings with three new drawings:

- HW-505 01a STRAIGHT ENDWALL
- HW-505_01b STEEL REINFORCING FOR STRAIGHT ENDWALLS (FOR 2'-0" DIFFERENCE FROM BASE TO FLOW LINE)
- HW-505_01c STEEL REINFORCING FOR STRAIGHT ENDWALLS (FOR STANDARD RIPRAP APPLICATION)

HW-506-02 Type "D-G" and "L" ENDWALLS

Revised drawing number to match Standard Specification Form 818 change from Section 506 to 505 for (Type) ENDWALL.

HW-506-03 ENDWALLS FOR PIPE – ARCH

Removed drawing from standard drawings, moved to Guide Sheet

HW-586_01 CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES HW-586_02 CATCH BASIN (TYPES "C" AND "C-L) FOR DOUBLE GRATE TYPE I STRUCTURES HW-586_03 CATCH BASIN (TYPES "C" AND "C-L) FOR DOUBLE GRATE TYPE II STRUCTURES Revised all diagrams to have angled catch basin tops separated from the drainage structure to emphasize the mortar and spacers are to be used for adjusting the top to match the roadway's profile and cross-slope.

HW-586_07a CATCH BASIN TYPE "C" AND "C-L" TOPS Errata EB-2024-2 March 5, 2024

HW-586_10a MANHOLE FRAME AND COVER Revised required attributes shown on the Manhole Frame and Cover view.

HW-586_10b MANHOLE FRAME AND GRATE Added plan view indicating the required frame attributes and Manhole Frame/Grate isometric view

- HW-751_01 UNDERDRAIN AND UNDERDRAIN OUTLET Revised sheet's content to include geotextile information. Removed section view of the "Culvert and Underdrain in the same Trench" application from the sheet, will be a guide sheet.
- HW-821_11a 42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB SHEET 1: Revised base dimension.
- HW-821_11b 42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB SHEET 2: Revised base dimension. Modified Transition Plan View note to match drawing's call outs.
- HW-822_02b TEMPORARY TRAFFIC BARRIER (BOLTED) Revised the sheet to reflect updated specifications for anchoring the threaded anchor rods required for bolting temporary traffic barrier to bridge decks.
- HW-910_20 MASH W-BEAM HARDWARE Added drawing for typical 3-space w-beam rail Element (10'-5" in length) and details for installation details for w-beam double sided delineator to be used on highway off ramps.

HW-910_20 MASH W-BEAM HARDWARE

HW-910_25a METAL BEAM RAIL TRANSITION 350 TO MASH GUIDERAIL

HW-911_01 R-B END ANCHORAGE TYPE I AND II

HW-911 02 MD-B END ANCHORAGE TYPE I

Revised these standard sheets to include New "3-Space W-Beam Guiderail rail element" to transition the rail splice off post for MASH compliant guiderail.

HW-910-21 METAL BEAM RAIL (R-B MASH) GUIDERAIL Errata

HW-910-25b METAL BEAM RAIL MEDIAN APPLICATION TRANSITION 350 TO MASH GUIDERAIL New drawings for guiderail transitioning from MD-I to MD-B MASH and MD-B MASH to R-B MASH. EB-2024-2 March 5, 2024

HW-910_28 R-B MASH BRIDGE ATTACHMENT TRAILING END Removed standard drawing for use on new construction to be replaced with new HW-910_29 THRIE-BEAM BRIDGE ATTACHMENT TRAILING END.

HW-910_29 THRIE-BEAM BRIDGE ATTACHMENT TRAILING END New drawing to replace existing HW-910_28 R-B MASH BRIDGE ATTACHMENT TRAILING END to change how w-beam guiderail is anchored to bridge parapet on the trailing end.

HW-911_01 R-B END ANCHORAGE TYPE I AND II

Revised sheet to include example of end anchorage combined with 3-Space W-Beam Guiderail" component drawing to shift post off w-beam splice for MASH compliant guiderail. Added Object Marker to be installed near the w-beam terminal element.

HW-911_03 ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE Revised Section B drawing to indicate #3 rebar used for concrete anchor. Added language on how to transition rail METAL BEAM (R-B MASH) guiderail configuration based on HW-910_25a METAL BEAM RAIL TRANSITION 350 to MASH GUIDERAIL.

HW-930_01 OBJECT MARKER (MAINTENANCE)

New sheet developed for specification change to require the installation of Object Markers (Maintenance) at end walls, pipe drainage outlets and guiderail end anchorages.

New & Revised Highway Guide Sheets issued are:

File Name	Description
GS-011.pdf	SEDIMENTATION CONTROL DOUBLE ROLL SYSTEMS SHEET 1
GS-012.pdf	SEDIMENTATION CONTROL DOUBLE ROLL SYSTEMS SHEET 2
GS-013.pdf	EROSION CONTROL MATTING AND TEMPORARY SLOPE DRAIN
GS-026.pdf	UNDERDRAIN AND DRAINAGE PIPE IN THE SAME TRENCH
GS-031.pdf	ROUNDABOUT TRUCK APRON–GENERAL DESIGN 1 OF 3
GS-034.pdf	ROUNDABOUT TRUCK APRON–REINFORCEMENT & HARDWARE 2 OF 3
GS-035.pdf	ROUNDABOUT TRUCK APRON–REINFORCEMENT & HARDWARE 3 OF 3
GS-064.pdf	WING ENDWALL UNIT
GS-067.pdf	STEEL REINFORCEMENT FOR WING ENDWALL UNIT (12 TO 24 DIA RCP)
GS-070.pdf	STEEL REINFORCEMENT FOR WING ENDWALL UNIT (30 TO 48 DIA RCP)
GS-073.pdf	PRECAST WNGWALL TO ENDWALL CONNECTION DETAILS
GS-076.pdf	ENDWALL FOR PIPE ARCH
GS-082.pdf	WING ENDWALL FOR PIPE ARCH

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GS-106.pdf	CONCRETE SDEWALK RAMP(S) INDEX SHEET [Contains Links to Sheets]
GS-109.pdf	CONCRETE SDEWALK RAMPS SHEET 1
GS-112.pdf	CONCRETE SDEWALK RAMPS SHEET 2
GS-115.pdf	CONCRETE SDEWALK RAMPS SHEET 3
GS-118.pdf	CONCRETE SDEWALK RAMPS SHEET 4
GS-121.pdf	CONCRETE SDEWALK RAMPS SHEET 5
GS-124.pdf	CONCRETE SDEWALK RAMPS SHEET 6
GS-127.pdf	CONCRETE SDEWALK RAMPS SHEET 7
GS-130.pdf	CONCRETE SDEWALK RAMPS SHEET 8
GS-133.pdf	CONCRETE SDEWALK RAMPS SHEET 9
GS-136.pdf	CONCRETE SDEWALK RAMPS SHEET 10
GS-139.pdf	CONCRETE SDEWALK RAMPS SHEET 11