⇩ Project Type															Bridges				Intersections			Barriers		
Design Elements ⇨	Horiz. Align.	Vert. Align.	Lane Width	Shldr Width	Lane Tran-sition	Median Width	Cross Slope Lane	Cross Slope Shldr	Fill/ Ditch Slopes	Access (3)	Clear Zone	Sign, Del., Illumin.	Basic Safety	Bike & Ped.	Lane Width	Shldr Width	Vertical Clear.	Structural Capacity	Turn Radii	Angle	Sight Dist.	Term. & Trans. Section (12)	Std Run	Bridge Rail
Preservation																								
Roadway																								
(5-1) ACP/PCCP												B	B				F				B	B	B	F
(5-2) BST																								
(5-3) BST Routes/Basic Safety												B	B								B	B	B	F
(5-4) Replace ACP with PCCP at I/S			EU/M	EU/M		EU/M	EU/M					B	B				F					B	B	F
Structures																								
(5-5) Bridge Replacement	M	F	M	M	F		M	M	M		F	F		F	F (2)	F (2)	F	F (11)	M	M	F	F	F	F
(5-6) Bridge Repl. (Multi-Lane)	F (2)	F (2)	F (2)	F (2)	F	F (2)	F (2)	F (2)	F (2)		F	F		F	F (2)	F (2)	F	F (11)	F (2)	F (2)	F	F	F	F
(5-7) Bridge Deck Rehab												B	B									B (6)	F	F
Improvements (16)																								
Mobility																								
(5-8) Urban (Multilane)	F (2)	F (2)	F (2)	F (2)	F	F (2)	F (2)	F (2)	F (2)	F	F	F		F	F (2)	F (2)	F	F (11)	EU/F	EU/F	F	F	F	F
(5-9) Urban	M	M	M	M	F		M	M	M	F	F	F		F	M	M	F	F (11)	EU/M	EU/M	F	F	F	F
(5-10) Rural	M	M	M	M	F	M	M	M	M	F	F	F		F	M	M	F	F (11)	EU/M	EU/M	F	F	F	F
(5-11) HOV	M	M	M	M	F	M	M	M	M	F	F	F		F	M	M	F	F (11)	EU/M	EU/M	F	F	F	F
(5-12) Bike/Ped. Connectivity	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)		F	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Safety																								
(5-13) Non-Interstate Freeway	F (2)	F (2)	F (2)	F (2)	F (2)	F (2)	F (2)	F (2)	F (2)	F	F	F		F	F (2)	F (2)	F		F (2)	F (2)	F	F	F	F
(5-14) All Others (1)	EU/M	EU/M	EU/M	EU/M	EU/F	EU/M	EU/M	EU/M	EU/M	EU/F	F	EU/F		EU	EU/M	EU/M	EU/F		EU/M	EU/M	EU/F	F	F	EU/F
Economic Development																								
(5-15) Freight & Goods (Frost Free) (8)	EU/M	EU/M	EU/M	EU/M	EU/F	EU/M	M	M	EU/M		F	B	B	EU	EU/M	EU/M	F		EU/M	EU/M	EU/F	F	B	F
(5-16) Rest Areas (New)	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F			F	F	F	F	F	F
(5-17) Bridge Restrictions	M	F	M	M	F	M	M	M	M		F	F		EU	M	M	F	F (11)	M	M	F	F	F	F
(5-18) Bike Routes (Shldrs)			EU/M	(7)	EU/F			EU/M	EU/M			B	B	F	EU/M	EU/M					B	F	B	EU/F

☐ Not Applicable
F Full design level
M Modified design level. See Chapter 430.
B Basic design level. See Chapter 410.
EU Evaluate Upgrade

(1) Collision Reduction (HAL, HAC, PAL), or Collision Prevention (Risk, Signalization & Channelization). Specific deficiencies that created the project must be upgraded to design level as stated in matrix.
(2) Modified design level may apply based on a corridor or project analysis. See 325.02.
(3) If designated in Limited Access Master Plan, apply limited access standards. If not, access management standards apply. See Chapter 920.
(5) For bike/pedestrian design see Chapters 1020 and 1025.
(6) Applies only to bridge ends terminal and transition sections.
(7) 4 ft minimum shoulders.
(8) If all weather structure can be achieved with spot digouts and overlay, basic design level applies.
(11) See Chapter 1120.
(12) Impact attenuators are considered as terminals.
(16) For design elements not in the matrix headings, apply full design level as found in the applicablechapters.

English Version

Design Matrix 5
Non-NHS Routes
Figure 325-8