

ATTACHMENT 1

8-2

Table 1

Item	Environmental Area	
	Non-Freeze- Thaw	Freeze-Thaw
A: 5 1 1 1 1 1 1 1 1 1 1		A
Air Entrainment other than footings	No	6% ^A
Maximum Water to Cementitious Material Ratio - Decks	0.45	0.40
Specify Freeze-Thaw Aggregates	No	Yes
Minimum Cover over Top Layer of Deck Reinforcing and Approach Slab Reinforcing (in.)	2	2 1/2
Exposure Factor (γ _e) Decks Other	0.75 1.00	0.75 0.75
Prestress Allowable Tension (within the deck) Refer to LRFD* Table 5.9.4.2.2-1	$0.19\sqrt{f'c}$	$0.0948\sqrt{f'c}$
Seal Bents under Deck Expansion Joints	No	Yes ^B
Epoxy Coated Reinforcement	No	Yes
Decks (12" thick and less) Decks (greater than 12" thick) - Top Mat Only	No No	Yes ^C
Curb and Barrier Rail	No No	Yes
Approach Slabs	No	Yes
3/4" Polyester Concrete Overlay	110	100
All Bridges on Routes 5, 18, 50, 80, 330	No	Yes ^D
Prestressed Box Girders	No	Yes ^D
Prestressed Precast Slabs	No	Yes ^D
Prestressed Precast T Girders where the deck is monolithic	No	Yes ^D
with the girder	Vaa	NIa
Pourable joint seals allowed	Yes	No

Notes:

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^A With 6% entrained air, concrete strengths higher than 4500 psi may be unobtainable with local aggregates. When concrete strength exceeding 4500 psi cannot be avoided, METS** can recommend lower amounts of entrained air and water reducing agents that can be used with local aggregates to obtain the most durable concrete.

^B Designers should avoid placing deck expansion joints where deck gutter runoff might drain onto the top of bents. Specify that the exposed portion of bents under expansion joints on structures carrying State Highway traffic be sealed. Consult with METS** Corrosion Branch for appropriate materials.

^C Whether or not to epoxy coat the bottom steel in decks greater than 12" thick should be based on the expected frequency of salting and potential problems in performing restorations.

^D Polyester concrete overlays are placed on routes where staged construction for deck rehabilitation or replacement causes undesirable traffic disruption and for structure types where deck rehabilitation or replacement would not be feasible due to prestressing.

^{*} AASHTO LRFD Bridge Design Specifications with CA Amendments

^{**} Materials Engineering and Testing Services, Office of Structural Materials