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Bureau of Engineering and Construction

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ENGINEERING & CONSTRUCTION DIRECTIVE

Bureau Chief/Chief Engineer

New Bridge Design Standard Practice Post-Installed Adhesive Bonded Anchors and Dowels

The Bridge Design Standard Practice Memorandum dated [October 3, 2007](#) for chemical anchors is rescinded and replaced with this new bridge design standard practice for structures when specifying the use of post-installed adhesive bonded anchors and dowels.

The term post-installed is used in the concrete industry to describe anchors and dowels installed in hardened concrete. Adhesive bonded anchors and dowels are examples of post-installed items.

The design and use of post-installed adhesive bonded anchors and dowels shall conform to the attached guidelines entitled "[Post-Installed Adhesive Bonded Anchors and Dowels](#)" and owned special provision entitled "[Section 6.10 - Drilling Holes and Bonding Anchors and Dowels](#)."

Adhesive bonding materials will not be listed on the Department's Qualified Products List. The adhesive bonding materials must meet the requirements included in the special provision. The Contractor's Product Data submittals for the adhesive bonding materials shall be reviewed by the designer for conformance with the Contract.

The use of the term "chemical anchor" in any contract document should be discontinued. Reference to M.03.07 - Chemical Anchors and to the Department's Qualified Product List (QPL) for chemical anchors should be discontinued. The chemical anchor product category will be removed from the QPL.

Specifications for all-inclusive items of work requiring the use of adhesive bonding material, such as “Construct Concrete Keeper Blocks,” shall be revised by designers accordingly.

Projects specifying the use of post-installed adhesive bonded anchors and dowels shall include the owned special provision entitled "[Section 6.10 - Drilling Holes and Bonding Anchors and Dowels](#)" and "[Notice To Contractor – Adhesive Bonded Anchor And Dowel Installation, Inspection And Testing Requirements.](#)" Where the items “Drilling Holes and Bonding Anchors” or “Drilling Holes and Bonding Dowels” are specified as stand-alone pay items, the following new item numbers and pay units have been established for use:

Item Number ¹	Item Description	Pay Unit
0610001A	Drilling Holes and Bonding Anchors	Each
0610002A	Drilling Holes and Bonding Dowels	Each

Note 1 – Item numbers shall include the suffix “A” until the owned special provision becomes a supplemental specification or is included in the standard specifications.

Bridge designers are directed to implement this practice in all projects in design, effective immediately. For projects being processed or advertised, bridge designers shall notify the Principal Engineer and request direction. For projects in construction, bridge designers shall notify the Principal Engineer, noting the current construction status, and request direction.