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SHERRI H. LEBAS, P.E.
SECRETARY

MEMORANDUM

TO: ALL CONSULTANTS
ALL BRIDGE DESIGNERS

FROM: HOSSEIN GHARA, P.E. 
BRIDGE DESIGN ADMINISTRATOR

STEPHEN MEUNIER, P.E. 
PAVEMENT AND GEOTECHNICAL DESIGN ADMINISTRATOR

SUBJECT: BRIDGE DESIGN TECHNICAL MEMORANDUM NO. 32 (BDTM.32)
PILE AND DRILLED SHAFT DATA TABLES

DATE: APRIL 15, 2011

Effective immediately for all projects prior to 95% final plan stage, the attached Pile Data Table and/or Drilled Shaft Data Table and related footnotes must be included in the contract plans as appropriate. The attached Pile Data Table shall replace the "pile load information" table on page 6(6) of DOTD's LRFD Bridge Design Manual (Version 2008.1).

If any other specialized loading conditions warrant consideration in the foundation design (i.e. uplift, lateral load, moment, etc.) additional columns should be added to the tables accordingly.

This technical memorandum is posted on the Bridge Design Website under Technical Memoranda.
http://www.dotd.la.gov/highways/project_devel/design/home.asp?ID=BRIDGE

Please contact Ms. Zhengzheng "Jenny" Fu (225-379-1321, zhengzheng.fu@la.gov) if you have questions or comments.

HG/zzf/pv

Cc: Richard Savoie (Chief Engineer)
Janice Williams (Chief, Project Development Division)
Art Aguirre (FHWA)

PILE DATA TABLE

BENT	NO. OF PILES	TYPE & SIZE (IN.)	SERVICE LOAD (TONS)		STRENGTH LOAD (TONS)	RESISTANCE FACTOR	REQUIRED (NOMINAL) RESISTANCE (TONS)		CUTOFF ELEV. (FT)	PLAN TIP ELEV. (FT)	PLAN LENGTH (FT)	ORDER LENGTH (FT)	AS-BUILT TIP ELEV. (FT)		
			DL (DC+DW)	LL			WITHOUT PREBORING	WITH PREBORING					MAX. ELEV.	MIN. ELEV.	AVG. ELEV.

NOTES:

- REQUIRED (NOMINAL) RESISTANCE (WITHOUT PREBORING) = $\frac{\text{STRENGTH LOAD}}{\text{RESISTANCE FACTOR}}$ + SCOUR ZONE RESISTANCE (INCLUDING FRICTION AND OVERBURDEN)
 REQUIRED (NOMINAL) RESISTANCE (WITHOUT PREBORING) SHALL BE USED TO VERIFY THE PILE CAPACITY IF NO PREBORING TO THE SCOUR ELEVATION IS PERFORMED
- REQUIRED (NOMINAL) RESISTANCE (WITH PREBORING) = $\frac{\text{STRENGTH LOAD}}{\text{RESISTANCE FACTOR}}$ + RESISTANCE DUE TO OVERBURDEN ONLY
 REQUIRED (NOMINAL) RESISTANCE (WITH PREBORING) SHALL BE USED TO VERIFY THE PILE CAPACITY IF PREBORING TO THE SCOUR ELEVATION IS PERFORMED

DRILLED SHAFT DATA TABLE

BENT	NO. OF SHAFTS	DIA. (IN)	SERVICE LOAD (TONS)		STRENGTH LOAD (TONS)	RESISTANCE FACTOR	REQUIRED (NOMINAL) RESISTANCE (TONS)	TOP ELEV. (FT)	PLAN TIP ELEV. (FT)	PLAN LENGTH (FT)	AS-BUILT LENGTH (FT)	AS-BUILT TIP ELEV. (FT)			
			DL (DC+DW)	LL								MAX. ELEV.	MIN. ELEV.	AVG. ELEV.	

NOTES:

- REQUIRED (NOMINAL) RESISTANCE = $\frac{\text{STRENGTH LOAD}}{\text{RESISTANCE FACTOR}}$ + SCOUR ZONE RESISTANCE (INCLUDING FRICTION AND OVERBURDEN)