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DATE:
 FILE:

FOUNDATION DESIGN DATA			
Abutments		Bents	
<p><i>Load Case</i></p> <p><i>Axial Foundation Loads (tons/shaft, tons/pile)</i></p> <p><i>Nominal Friction Resistance (tons/square foot)</i></p> <p><i>Friction Resistance Factor(s)</i></p> <p><i>Cumulative Factor Friction Resistance (tons/shaft, tons/pile)</i></p> <p><i>Nominal Bearing Resistance (tons/square foot)</i></p> <p><i>Bearing Resistance Factor</i></p> <p><i>Factored Bearing Resistance (tons/shaft, tons/pile)</i></p>	<p style="text-align: right;"><i>Strength I</i></p> <p style="text-align: right;"><i>Abut No. 1</i></p> <p style="text-align: right;"><i>Abut No.</i></p> <p style="text-align: right;"><i>(soil type)</i></p> <p style="text-align: right;"><i>(soil type)</i></p> <p style="text-align: right;"><i>(soil type)</i></p> <p style="text-align: right;"><i>(soil type)</i></p>	<p><i>Load Case</i></p> <p><i>Axial Foundation Loads (tons/shaft, tons/pile)</i></p> <p><i>Nominal Friction Resistance (tons/square foot)</i></p> <p><i>Friction Resistance Factor(s)</i></p> <p><i>Cumulative Factor Friction Resistance (tons/shaft, tons/pile)</i></p> <p><i>Nominal Bearing Resistance (tons/square foot)</i></p> <p><i>Bearing Resistance Factor</i></p> <p><i>Factored Bearing Resistance (tons/shaft, tons/pile)</i></p>	<p style="text-align: right;"><i>Strength I</i></p> <p style="text-align: right;"><i>Bent No.</i></p> <p style="text-align: right;"><i>Bent No.</i></p> <p style="text-align: right;"><i>(soil type)</i></p> <p style="text-align: right;"><i>(soil type)</i></p> <p style="text-align: right;"><i>(soil type)</i></p> <p style="text-align: right;"><i>(soil type)</i></p>
<p><i>Additional Notes:</i> <i>(design basis and depth neglected)</i></p>		<p><i>Additional Notes:</i> <i>(design basis and depth neglected)</i></p>	

NOTE TO DESIGNER:

This sheet is to be used to convey the foundation design intent. It is to be filled out by the foundation designer and provides design assumptions for drilled shafts or driven piles.

For standard bridges, Foundation Load Sheets for Designer's Information are provided to assist in filling out the tables.

To complete this sheet, input the foundation design data into the table. This sheet cannot be used without modification and in all cases notes not required must be removed. This note and the phrase "Not to be used as a standard" must be removed and the sheet must be signed and sealed by a Professional Engineer.

Complete the Driven Pile Resistance Table and include when using piles. Calculate dynamic resistance in accordance with the TxDOT Geotechnical Manual - LRFD.

This sheet may be combined with a Foundation Layout. Alter the title to be Foundation Layout and Notes. Remove the standard name, FDN.

The Foundation Design Data table may be altered by adding:

1. lateral loads below axial loads, when applicable
2. additional columns as needed to communicate the design data over the length of the bridge.

At a minimum, the Additional Notes should describe the basis of design and the depth neglected for the design. For example, "Design lengths based on side resistance (skin friction) alone and disregarded to an elevation of XXX feet."

DRIVEN PILE RESISTANCE						
Abutment / Bent No.	Pile Size (in)	Pile Type (Material, Shape)	Controlling Design Case	Factored Structural Resistance (tons/pile)	Nominal Skin Resistance in Scour Zone (tons/pile)	Nominal Driving Resistance (tons/pile)
			Strength I			
			Strength I			
			Strength I			
			Strength I			

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications. See Bridge Layout for header slope and foundation type, size and length.

See Common Foundation Details (FD) standard sheet for all foundation details and notes.

HL93 LOADING

Bridge Division Standard

FOUNDATION NOTES
(Not to be used as a Standard)

FDN

FILE: MS-FDN-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS				
	DIST	COUNTY		SHEET NO.