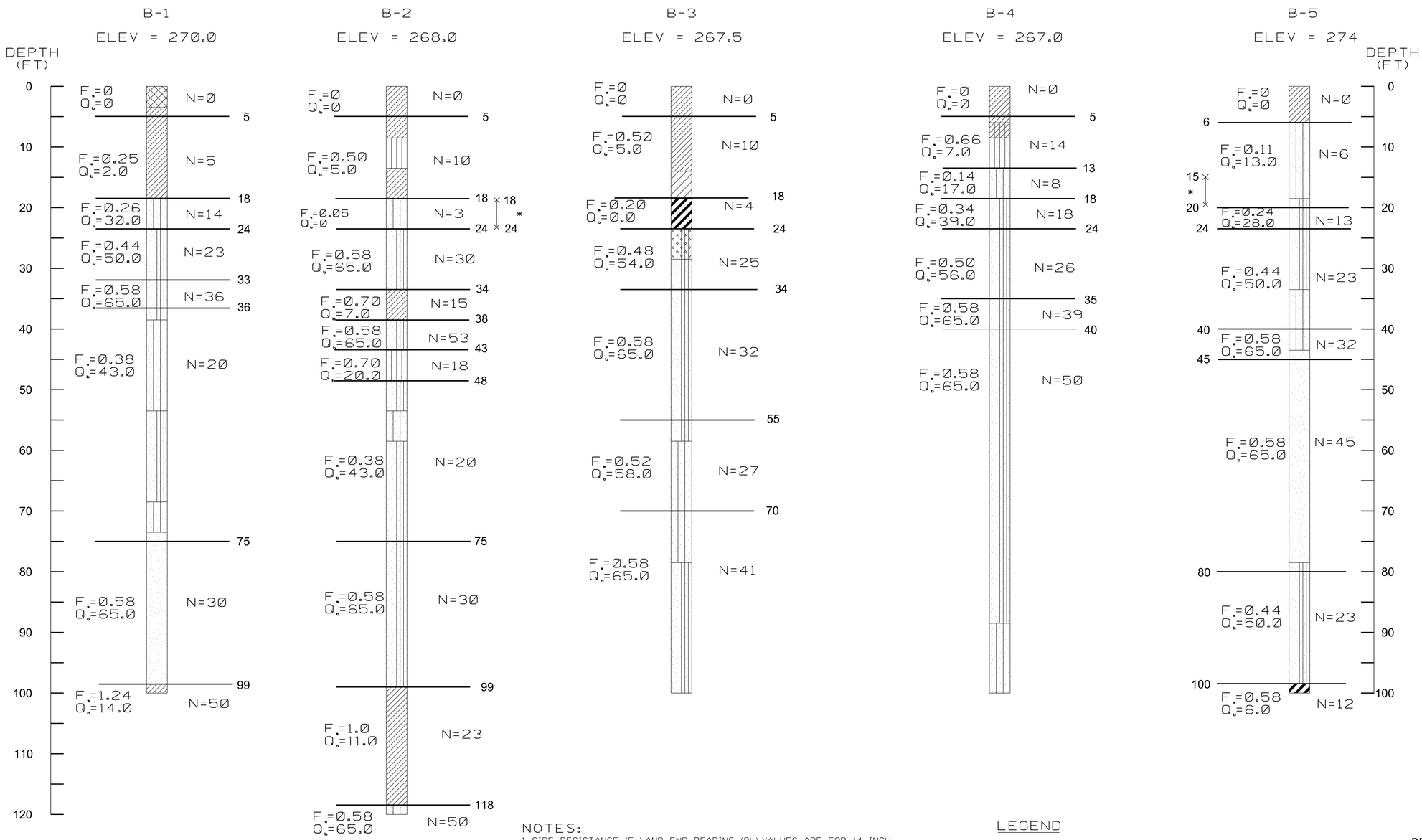
FD1124F.DGN

CONST. NO. 79011-3266-94

PROJECT NO.	YEAR	SHEET NO.
BR-STP-1(283)	2015	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



NOTES:

1. SIDE RESISTANCE (Fs) AND END BEARING (Qb) VALUES ARE FOR 14 INCH SQUARE CONCRETE DISPLACEMENT PILES. THE UNIT RESISTANCE VALUES WERE DETERMINED USING TDOT'S STATIC PILE CAPACITY SPREADSHEET. GEOTECHNOLOGY SHOULD BE CONTACTED IF OTHER DEEP FOUNDATION TYPES ARE CONSIDERED.

2. THE ANALYSIS INDICATED LIQUEFACTION POTENTIAL AT THE NOTED DEPTHS DURING THE DESIGN EARTHQUAKE (975-YEAR RETURN INTERVAL).

3. A HYDRAULIC AUTOMATIC TRIP HAMMER WAS USED TO DETERMINE SPT N-VALUES. THE SPT N-VALUES SHOWN REPRESENT AVERAGE N60 VALUES.

4. PILES SHOULD EXTEND A MINIMUM OF 5 FEET BELOW POTENTIALLY LIQUEFIABLE ZONES.

5. PILE SIDE AND TIP RESISTANCES SHOULD BE IGNORED WITHIN THE POTENTIALLY LIQUEFIABLE ZONES.

LEGEND

* POTENTIALLY LIQUEFIABLE DEPTH INTERVAL, FEET

N = SPT N-VALUE
Fs = NOMINAL SIDE RESISTANCE (TSF)
Qb = NOMINAL TIP RESISTANCE (TSF)

DESIGNED BY	D. SHIKE	DATE	01-14
DRAWN BY	D. SHIKE	DATE	01-14
SUPERVISED BY	KDM (JKZ)	DATE	01-14
CHECKED BY	ADAM PRICE	DATE	04-15

CORRECT Wayne G. Sieger
ENGINEER OF STRUCTURES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
FOUNDATION LAYOUT
STATE ROUTE 1
OVER
LOOSAHATCHIE RIVER
STATION 1197+55.00
SHELBY COUNTY
2015

U-56-109