

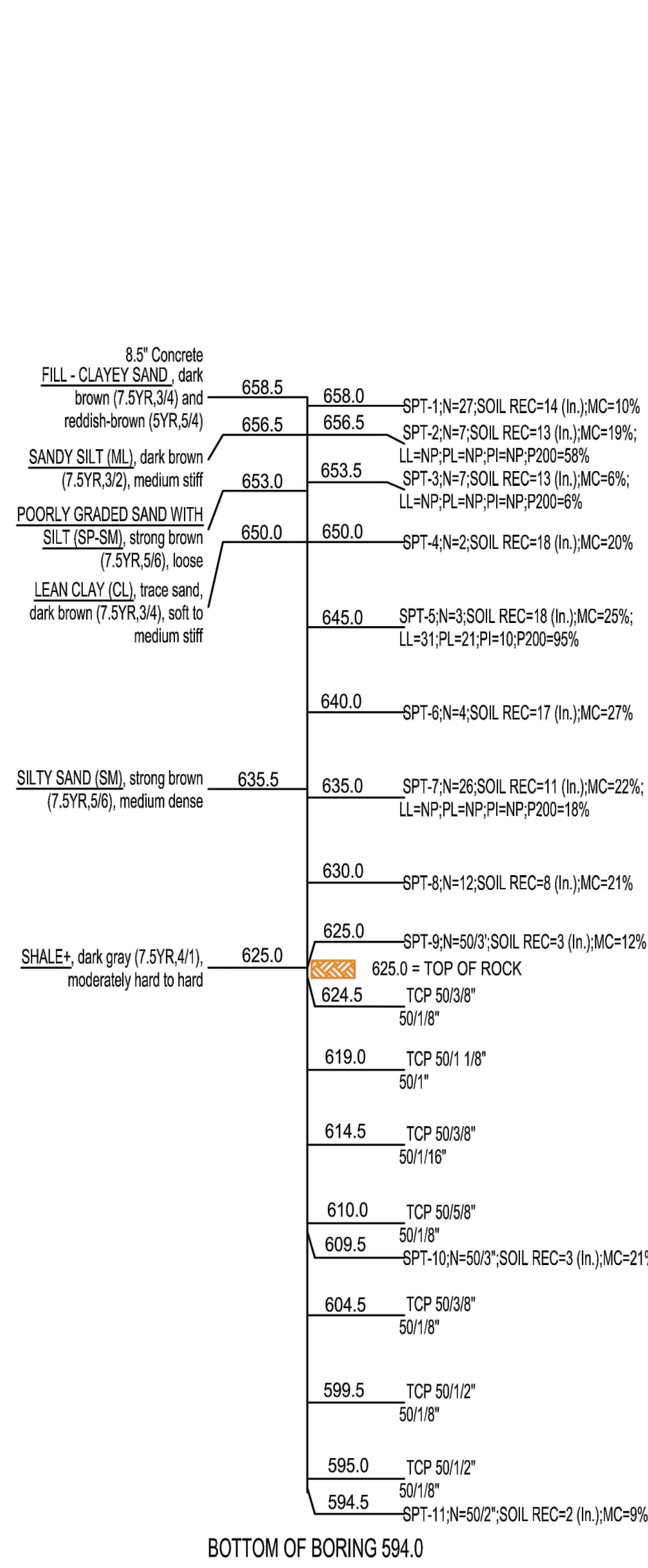
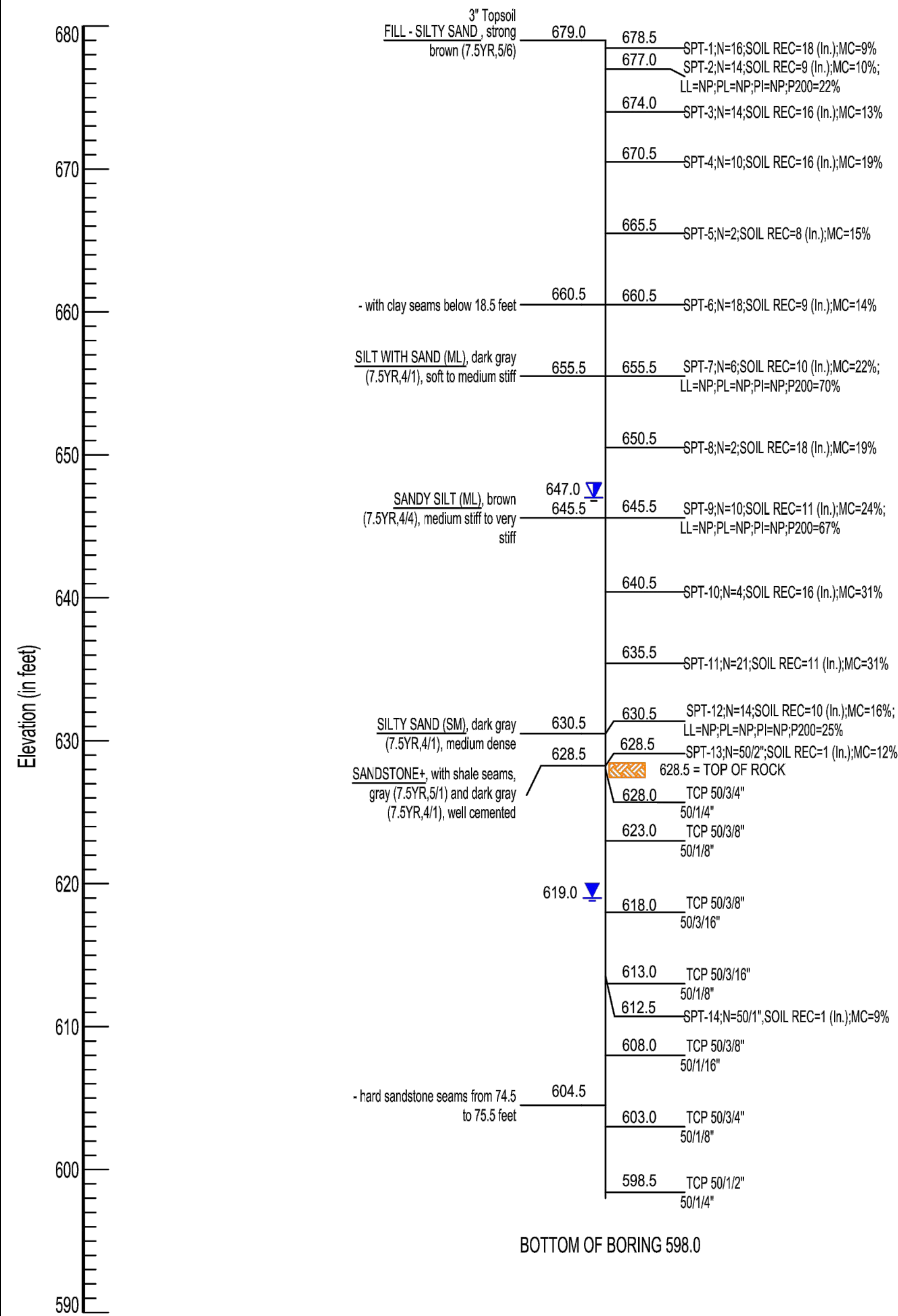
REVISIONS		
REV. NO.	DESCRIPTION	DATE

Boring No. B-1

Surface Elev. (Ft.): 679.0
 Station: 197+33 ; Offset: 4' LT
 (May 3rd, 2016)

Boring No. B-2

Surface Elev. (Ft.): 658.5
 Station: 197+98 ; Offset: 10' LT
 (May 10th, 2016)



LEGEND

- DCD = DIAMOND CORE DRILLING, ASTM D2113-83
- SPT = STANDARD PENETRATION TEST, ASTM D1586
- SS = SPLIT SPOON SAMPLER
- N = NUMBER OF BLOWS PER 12 INCHES
- MC = MOISTURE CONTENT
- LL = LIQUID LIMIT (NV=NO VALUE)
- PI = PLASTICITY INDEX (NP=NO PLASTICITY)
- #200 = PERCENT PASSING #200 SIEVE
- UCS = UNCONFINED COMPRESSIVE STRENGTH (psi)
- TCP = TEXAS CONE PENETROMETER
- WCI = WET CAVE IN
- ▽ = WATER LEVEL WHILE DRILLING OR SAMPLING
- ▽ = WATER LEVEL AFTER DRILLING
- ▽ = WATER LEVEL 24 HOURS AFTER DRILLING
- ▨ = TOP OF ROCK

NOTE: WATER LEVEL ELEVATIONS SHOWN WERE OBTAINED AT THE TIME THE BORINGS WERE DRILLED AND MAY FLUCTUATE THROUGHOUT THE YEAR.

NOTE: "SS" DENOTES STANDARD PENETRATION TEST. ASSHTO D1586-84. "TCP" DENOTES TEXAS CONE PENETRATION TEST.

* NOTE: TOP OF ROCK LINE SHOWN FOR ESTIMATING PURPOSES ONLY

** NOTE: WATER LEVEL ELEVATION SHOWN WERE OBTAINED AT THE TIME THE BORINGS WERE DRILLED AND MAY FLUCTUATE THROUGHOUT THE YEAR.

*** NOTE: ROCK CLASSIFICATION IS BASED ON DRILLING CHARACTERISTICS AND VISUAL OBSERVATION OF ROCK CORE SAMPLES. PETROGRAPHIC ANALYSIS OF THIN SECTION OF THE ROCK CORE SAMPLES MAY REVEAL OTHER TYPES.

SITE GEOLOGY

Based on the results of our borings and information published in the Oklahoma Department of Transportation manual, "Engineering Classification of Geologic Materials: Division 8", the project is underlain by Terrace Deposits (Qt). These materials consist of sand, silt, clay, gravel, and/or combinations of these. Terrace materials occur adjacent to or near streams at higher elevations than the flood plain (bottom land). The terrace deposits are underlain by the Nellie Bly unit (Pnb).

The Nellie Bly Unit consists predominantly of yellowish-brown shale and sandy shale with interbedded sandstone and siltstone. The shale ranges from clay shale in the lower portion grading upward to silty and sandy shale. The sandstones are present as massive beds up to 40 feet thick along the Arkansas River near Sand Springs. The total thickness of this unit ranges from about 80 to 280 feet in Tulsa County.

GEOTECHNICAL REPORT

ALL GEOTECHNICAL INFORMATION CONTAINED ON THIS SHEET IS COVERED BY THE ENGINEERING SEAL AFFIXED TO AN ORIGINAL GEOTECHNICAL ENGINEERING REPORT THAT HAS BEEN STAMPED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN OKLAHOMA. TO OBTAIN A COPY OF THE COMPLETE REPORT, CONTACT THE ODOT OFFICE ENGINEER AT (405) 521-2625. THE CONTRACTOR SHOULD BE FULLY AWARE OF THE SITE CONDITIONS PRIOR TO BEGINNING WORK. ANY ADDITIONAL GEOTECHNICAL INFORMATION WHICH MAY BE DESIRED IS THE RESPONSIBILITY OF THE CONTRACTOR.

DESIGN	MW	11/16	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	SDK	11/16	
CHECKED	HRA	11/16	
APPROVED			
WALTER P MOORE			
TULSA COUNTY			US-64 OVER 97TH W. AVE.
			FOUNDATION REPORT (1 OF 2)
			STATE JOB NO. 28884(04) SHEET NO. 36