



KEY TO SYMBOLS

- Asphalt
- Aggregate Base
- Fill (made ground)
- Rubble Fill - Concrete, Brick, etc
- USCS Low Plasticity Clay
- USCS Poorly-graded Sand
- USCS Silt
- Weathered Shale
- Shale

- HSA = Hollow Stem Auger
- CFA = Continuous Flight Auger
- SPT = Standard Penetration Test
- DCP = Dynamic Cone Penetrometer
- SS = Split-spoon Sampler
- ST = Shelby Tube Sampler
- RC = Rock Core
- DD = Dry Density
- LL = Liquid Limit
- PL = Plastic Limit
- Q_u = Unconfined Compressive Strength
- Q_p = Pocket Penetrometer
- RQD = Rock Quality Designation
- REC'D = Rock Core Recovery Percentage
- PID = Photo Ionic Detector (ppm)
- MR* = Unable to determine depth of water due to mud rotary drilling methods

The borings were advanced into the ground using hollow stem augers. At regular intervals throughout the boring depths, soil samples were obtained with either a 1.4-inch I.D., 2.0-inch O.D., split-spoon sampler or a 3-inch diameter Shelby tube. The split-spoon sampler was first seated 6-inches to penetrate any loose cuttings and then driven an additional foot where possible with blows of a 140 pound hammer falling 30-inches. The number of hammer blows required to drive the sampler each 6-inch increment is recorded in the field. The penetration resistance "N-value" is redesignated as the number of hammer blows required to drive the sampler the final foot and, when properly evaluated, is an index to cohesion for clays and relative density for sands. The split-spoon sampling procedures used during this exploration are in general accordance with ASTM Designation D 1586.

Relatively undisturbed Shelby tube samples were obtained by forcing a section of 3-inch diameter steel tubing into the soil at the desired sampling levels. This sampling procedure was in general accordance with ASTM Designation D 1587. Each tube, together with the encased soil, was carefully removed from the ground, sealed and transported to the laboratory for testing.

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PSI Job No.: 0020205
Project: Soil Borings for Bridge Replacement
Location: CH 40 (New City Road)
Sangamon County, Illinois

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Note:
Elevation 100.00 on boring logs = 560.14 on plans.

USER NAME =	DESIGNED - KRG	REVISOR	REVISION	MID-AMERICA ENGINEERING SERVICES	SOIL BORING LOGS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - MJK		REVISOR	SPRINGFIELD ILLINOIS	STRUCTURE NO 084-3414	624	08-00085-00-BR	SANGAMON	32	23
PLOT SCALE = NONE	DRAWN - GSJ		REVISOR				STRUCTURE NO. 084-3414			CONTRACT NO. 93585
PLOT DATE =	CHECKED - MJK		REVISOR				STA. 122+30	ILLINOIS FED. AID PROJECT		
					SHEET NO. 14 OF 14 SHEETS					