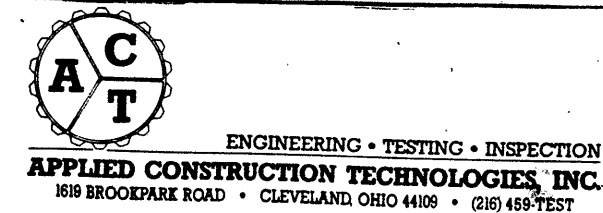


FILE NO: 8809.37 **BORING LOG** BORING NO: B-1  
 BY: WIDENING OF SR 306 BRIDGE OVER SR 2, LAKE COUNTY, OHIO LAK-306-6.91  
 PROJECT: CT CONSULTANTS, INC.  
 FOR: NOVEMBER 4, 1988  
 DRILLED: NOVEMBER 15, 1988  
 BORING METHOD: ROTARY DRIVE, HOLLOW STEM FLIGHT AUGERS  
 SAMPLER TYPE AND SIZE: SS-SPLIT SPOON 2" O.D. ST-SHELBY TUBE  
 A-AUGER FLIGHT: DIAMOND ROCK CORE BARREL  
 OTHER: HAMMER 140 LBS DROP 30"

ELEV. (FT.)	L O G	SAMPLE		Blow Count On Split Spoon per 6 in.	DESCRIPTION
		Depth (Ft.)	No. Type		
658 ±		0			0' - 2" Asphaltic Concrete
					2' - 1.7' Portland Cement Concrete
		1	SS 2-2-4		Brown and Gray Silty Clay. Some Sand. Trace Gravel. Fill. Medium Stiff. Moist. (CL) ODOT Soil Group A-6b.
		2	SS 5-4-4		Brown Silty Clay. Some Sand. Trace Gravel. Fill. Medium Stiff to Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
		3	SS 4-8-8		Gray Silty Clay. Some Sand. Trace Gravel. Fill. Stiff. Moist. (CL) ODOT Soil Group A-6b.
		4	SS 5-6-8		Gray Silty Clay. Some Sand. Trace Gravel. Fill. Stiff. Moist. (CL) ODOT Soil Group A-6b.
		5	SS 13-11-13		Brown Silty Clay. Some Sand. Trace Gravel. Fill. Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
		6	SS 10-13-14		Brown Silty Clay. Some Sand. Trace Gravel. Fill. Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
					* Black Cinders, Slag & Asphalt. Fill.
		7	SS 20-16-17		Organic Silty Clay. Fill. Hard. Moist. (CL) ODOT Soil Group A-6b.
		8	SS 11-14-18		Brown Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		9	SS 18-20-26		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		10	SS 13-18-27		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		11	SS 16-24-50 Per 4"		Gray Silt. Some Sand. Very Dense. Moist. (ML) ODOT Soil Group A-4b.
		12	SS 40-65		Gray Silty Fine Sand. Layers of Gray Silty Clay. Some Sand in Formation. Very Dense. Moist. (SM) ODOT Soil Group A-4a.
		13	SS 21-31-37		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		14	SS 19-32-48		Gray Silty Clay and Shale Fragments. Highly Weathered Shale Zone. Moist. ODOT Soil Group A-6b.
		15	SS 60 Per 5"		Gray Shale. Moist. End of boring @ 64.5'

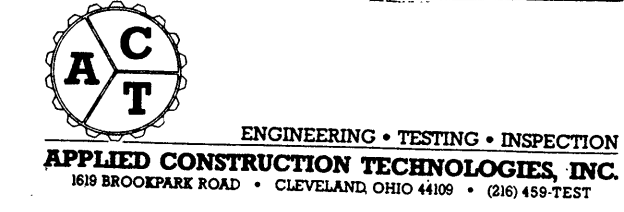
GROUND WATER: ENCOUNTER: None  
 AT COMPLETION: None AFTER: None



FILE NO: 8809.37 **BORING LOG** BORING NO: B-2  
 PROJECT: WIDENING OF SR 306 BRIDGE OVER SR 2, LAKE COUNTY, OHIO LAK-306-6.91  
 FOR: CT CONSULTANTS, INC.  
 DRILLED: NOVEMBER 15, 1988  
 BORING METHOD: HOLLOW STEM FLIGHT AUGERS  
 SAMPLER TYPE AND SIZE: SS-SPLIT SPOON 2" O.D. ST-SHELBY TUBE  
 A-AUGER FLIGHT: DIAMOND ROCK CORE BARREL  
 OTHER: HAMMER 140 LBS DROP 30"

ELEV. (FT.)	L O G	SAMPLE		Blow Count On Split Spoon per 6 in.	DESCRIPTION
		Depth (Ft.)	No. Type		
637 ±		0			Mottled Brown and Gray Silty Clay. Some Sand. Trace Gravel. Fill. Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
		1	SS 6-10-12		Gray Organic Clay Silty. Trace Sand. Possible Fill. Stiff. Moist. (CL) ODOT Soil Group A-6b.
		2	SS 3-5-8		Mottled Brown and Gray Silty Clay. Little to Some Sand. Trace Gravel. Fine Root Fibers Noted at Approximate Depth of 5.5'. Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		3	SS 10-12-17		Mottled Brown and Gray Silty Clay. Trace to Little Sand. Trace Gravel. Stiff to Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
		4	SS 14-17-19		Gray Silty Clay. Some Sand. Trace Gravel. Cobble Encountered at Approximate Depth of 25'. Very Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		5	SS 12-17-18		Gray Silty Clay. Some Sand. Trace Gravel. Cobble Encountered at Approximate Depth of 25'. Very Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		6	SS 9-12-15		Gray Silty Clay. Some Sand. Trace Gravel. Cobble Encountered at Approximate Depth of 25'. Very Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		7	SS 50 Per 4"		Gray Silty Clay. Some Sand. Trace Gravel. Cobble Encountered at Approximate Depth of 25'. Very Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		8	SS 31-42-46		Gray Silty Clay. Some Sand. Trace Gravel. Cobble Encountered at Approximate Depth of 25'. Very Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		9	SS 21-21-25		Gray Silty Clay. Some Sand. Trace Gravel. Cobble Encountered at Approximate Depth of 25'. Very Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		10	SS 29-30-55		Gray Silty Clay. Some Sand. Trace Gravel. Cobble Encountered at Approximate Depth of 25'. Very Stiff to Hard. Moist. (CL) ODOT Soil Group A-6b.
		11	SS 50 Per 2"		Gray Shale. Moist. End of Boring @ 44.7'

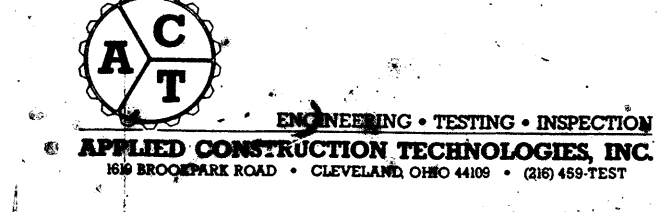
GROUND WATER: ENCOUNTER: None  
 AT COMPLETION: None AFTER: None



FILE NO: 8809.37 **BORING LOG** BORING NO: B-3  
 PROJECT: WIDENING OF SR 306 BRIDGE OVER SR 2, LAKE COUNTY, OHIO LAK-306-6.91  
 FOR: CT CONSULTANTS, INC.  
 DRILLED: NOVEMBER 15, 1988  
 BORING METHOD: HOLLOW STEM FLIGHT AUGERS  
 SAMPLER TYPE AND SIZE: SS-SPLIT SPOON 2" O.D. ST-SHELBY TUBE  
 A-AUGER FLIGHT: DIAMOND ROCK CORE BARREL  
 OTHER: HAMMER 140 LBS DROP 30"

ELEV. (FT.)	L O G	SAMPLE		Blow Count On Split Spoon per 6 in.	DESCRIPTION
		Depth (Ft.)	No. Type		
638 ±		0			Gray Silty Clay. Some Sand. Trace Gravel. Fill. Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
		1	SS 5-7-9		Gray Silty Clay. Some Sand. Trace Gravel. Fill. Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
		2	SS 3-4-6		Brownish Gray Organic Clay, Silty. Trace Gravel, Sand and Wood. Fill. Stiff. Moist. (CL) ODOT Soil Group A-6b.
		3	SS 7-11-16		Mottled Brown and Gray Silty Clay. Trace to Little Sand. Trace Gravel. Stiff to Very Stiff. Moist. (CL) ODOT Soil Group A-6b.
		4	SS 21-16-21		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		5	SS 11-13-18		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		6	SS 20-21-50 Per 4"		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		7	SS 53-58		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		8	SS 28-45-55		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		9	SS 28-32-40		Gray Silty Clay. Some Sand. Trace Gravel. Hard. Moist. (CL) ODOT Soil Group A-6b.
		10	SS 66 Per 6"		Gray Shale. Moist. End of Boring @ 44.5'

GROUND WATER: ENCOUNTER: None  
 AT COMPLETION: None AFTER: None



APPLIED CONSTRUCTION TECHNOLOGIES, INC.  
 1619 BROOKPARK ROAD, CLEVELAND, OHIO  
**STRUCTURE FOUNDATION INVESTIGATION**  
 BRIDGE LAK-306-6.91  
 OHIO STATE ROUTE 306  
 MENTOR, OHIO  
 LAKE COUNTY  
 CLIENT: C.T. CONSULTANTS, INC.  
 DATE 4-28-89 SCALE DRAWN BY 19  
 PROJECT NO. 8809.37 DRAWING NO.