



O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 • FAX(847) 398-2376

STRUCTURE FOUNDATION BORING LOG

Project: Supplemental Phase 2 Geotechnical Investigation For The Proposed 75th Street and Washington Street Intersection Improvements OBA Job No.: 07546
Location: Washington Street & 75th Street, Naperville, Illinois Date: 11/5/2007
County: Cook Bored By: RH
Client: T.Y. Lin International Checked By: DOB

BORING No.: <u>RW-07-01</u>	DEPTH H (ft)	BLOW COUNT (S)	UCS Failure Mode (tsf)	M Qu (pcf)	Surface Water Elev.: <u>n/a</u>		DEPTH H (ft)	BLOW COUNT (S)	UCS Failure Mode (tsf)	M Qu (pcf)
					Groundwater Elevation: <u>Dry WD</u>	Groundwater Elevation: <u>Dry AB</u>				
Ground Surface Elevation: <u>667.2</u>					After	Hours:				
<u>2.0' TOPSOIL-black</u>	<u>667.0</u>	<u>AS</u>	-	<u>14</u>						
CLAY-brown & black-very stiff (A-6) Fill	<u>5</u>									
	<u>7</u>									
	<u>8</u>	<u>3,25P</u>		<u>24</u>						
	<u>664.2</u>									
SAND, GRAVEL & FRACTURED ROCK-brown-medium dense to very dense (A-1) Possible cobbles or boulders from -7.0' to -17.5'.	<u>3</u>									
	<u>5</u>									
	<u>13</u>	<u>NP</u>		<u>6</u>	<u>-30</u>					
	<u>20</u>									
	<u>34</u>									
	<u>50/4"</u>	<u>NP</u>		<u>4</u>						
	<u>50/6"</u>									
	<u>-10</u>	<u>NP</u>		<u>6</u>	<u>-35</u>					
	<u>32</u>									
	<u>27</u>									
	<u>50/4"</u>	<u>NP</u>		<u>7</u>						
	<u>43</u>									
	<u>50/5"</u>	<u>NP</u>		<u>9</u>						
	<u>-15</u>	<u>NP</u>		<u>9</u>	<u>-40</u>					
	<u>50/1"</u>									
	<u>649.7</u>			<u>NR</u>						
Drillers Observation: Fractured rock.	<u>648.2</u>									
Drillers Observation: Apparent bedrock.	<u>647.2</u>	<u>-20</u>			<u>-45</u>					
End of Boring @ -20.0' Hollow Stem Augers CME-Automatic Hammer										
	<u>-25</u>				<u>-50</u>					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM T266) The Unit Dry Weight (pcf) is noted in italics above moist (M)
NR-No Recovery



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Location: Washington Street & 75th Street, Naperville, Illinois Date: 11/5/2007
County: Cook Bored By: RH
Client: T.Y. Lin International Checked By: DOB

BORING No.: <u>RW-07-02</u>	DEPTH H (ft)	BLOW COUNT (S)	UCS Failure Mode (tsf)	M Qu (pcf)	Surface Water Elev.: <u>n/a</u>		DEPTH H (ft)	BLOW COUNT (S)	UCS Failure Mode (tsf)	M Qu (pcf)
					Groundwater Elevation: <u>n/a WD</u>	Groundwater Elevation: <u>n/a AB</u>				
Ground Surface Elevation: <u>663.3</u>					After	Hours:				
<u>2.0' TOPSOIL-black</u>	<u>663.1</u>	<u>AS</u>	-	<u>15</u>						
CLAY-brown-very stiff (A-6) Fill	<u>6</u>									
	<u>15</u>	<u>2,25P</u>		<u>22</u>						
	<u>659.3</u>									
TOPSOIL-black	<u>3</u>									
	<u>4</u>	<u>2,25P</u>		<u>33</u>	<u>-30</u>					
	<u>657.8</u>									
CLAY-brown-stiff to very stiff (A-6) Wet	<u>5</u>									
	<u>6</u>									
	<u>6</u>	<u>3,25P</u>		<u>27</u>						
	<u>2</u>									
	<u>2</u>									
	<u>-10</u>	<u>2</u>	<u>1.0P</u>	<u>28</u>	<u>-35</u>					
	<u>651.8</u>									
SAND & GRAVEL-brown-dense (A-1)	<u>17</u>									
	<u>14</u>	<u>NP</u>		<u>12</u>						
	<u>649.8</u>									
SILT-brown-dense (A-4)	<u>649.3</u>	<u>30</u>								
Drillers Observation: Apparent bedrock.	<u>648.3</u>	<u>-15</u>	<u>NP</u>	<u>17</u>	<u>-40</u>					
Silurian System, Niagaran Series Dolomite RUN 1 (-15.0' to -25.0')										
Porous & weathered with rust staining & some chert nodules to -18.75', becoming fine grained & light gray with horizontal bedding. Numerous horizontal fractures throughout. No vugs or vertical fractures encountered.										
Recovery=100.0% R.Q.D.=48.0%	<u>-20</u>									
	<u>638.3</u>	<u>-25</u>								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM T266) The Unit Dry Weight (pcf) is noted in italics above moist (M)
NR-No Recovery

F.A.U. ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
2552	*	DUPAGE	563	395
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT NO.	
00-00114-00-PV		CONTRACT NO. 67024		

TYLIN INTERNATIONAL

DESIGNED	-
CHECKED	- SP
DRAWN	- TB
CHECKED	- SP

REVISIONS	
NAME	DATE

BORING LOGS - 1

WASHINGTON - 75TH STREET
F.A.U. ROUTE 2552
SECTION 00-00114-00-PV
DUPAGE COUNTY