

- MATERIALS TO BE USED:**
- HOT MIX ASPHALT SURFACE COURSE, MIX. "C", N50
  - BITUMINOUS MATERIAL (PRIME COAT), 0.5 GAL/SY
  - HOT MIX ASPHALT BINDER COURSE, IL-19, N50
  - BITUMINOUS MATERIAL (PRIME COAT), 0.5 GAL/SY
  - AGGREGATE BASE COURSE, VIRGIN MATERIAL ONLY
  - 6 TO 6.5 OZ/SY WOVEN STABILIZER FABRIC AT DIRECTION OF VILLAGE ENGINEER

**NOTES:**

1. MAY BE SUBJECT TO STATE OR COUNTY PERMIT.
2. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH MOST RECENT I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
3. PROOF ROLL REQUIRED UPON COMPLETION OF SUB GRADE AND BASE MATERIAL. ZERO DEFLECTION IS VILLAGE OF WHEELING STANDARD.

# VILLAGE OF WHEELING

## PARKING LOT PAVEMENT SECTION

### REVISIONS

S.W.	03-16-00	AUTOCAD FILE
S.W.	09-18-01	REVISED PER COMMENTS
C.J.C.	11-27-07	AUTOCAD FILE
C.J.C.	09-24-08	H.M.A. REQUIREMENT CHANGES

**H. H. HOLMES TESTING LABORATORIES, INC.**



• 170 Shepard Avenue • Wheeling, Illinois 60090 • 847-541-4040 • Fax 847-537-9098

March 8, 2010

Mr. Lawrence Raffel, ASLA, CPSI  
Superintendent of Planning  
**Wheeling Park District**  
333 W. Dundee Road  
Wheeling, IL 60090

File No. 4122-1

Re: **Community Recreation Center**, 333 W. Dundee Road, Wheeling, IL

Mr. Raffel:

At your request, on 3/8/10, we performed 8 pavement cross sections in the parking lot on the southwest side of the Community Recreation Center building. The cores are labeled C1 through C8 and were cored in the locations previously determined. Asphalt thickness varied between 1.5" and 5" in depth and stone thickness varied between 5" and 10" in depth. Beneath the stone, brown silty clay was encountered in all cored locations.

Please find the results of our exploration attached. If you have any questions, please do not hesitate to call.

Respectfully submitted,

Julia M. McBirnie, E.I.T.  
Field Engineer

Chuck Cranford  
Vice President

# H. H. HOLMES TESTING LABORATORIES, INC .

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**Date:** March 8, 2010

Client: Wheeling Park District		Project: Community Rec. Center, 333 W. Dundee Road											
FILE NO.	4122-1	Depth	C-1	Soil Type	S	N	Qu	Qp	Wc	Yd	MS	%R	%O
<b>LOG OF TEST BORING</b>				<b>Ground Surface Elevation</b>									
	0.5			3" asphalt									
	1			8" stone									
	1.5			brown silty clay <b>CLAY (CL)</b>	1	--	--	--	--	--	AS	--	--
	2												
<b>Legend</b>													
S = Sample No.													
N = Penetration (blows/foot)													
Qu = Unconfined Strength (tons/square ft.)													
Qp = Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading (tons/square ft.)													
Wc = Water Content in %													
Yd = Dry Density (pcf)													
MS = Method of Sample													
SS = Split - Spoon Sample													
AS = Auger Sample													
ST = Shelby Tube Sample													
%O = Percent Organic													
%R = Percent Recovery													
= Water Level After Sampling = Water Level While Sampling													
Drill Date : 3/8/10													
Technician : Nick Terzo													
Drafting : Julia McBirnie													
		Depth	C-2	Soil Type	S	N	Qu	Qp	Wc	Yd	MS	%R	%O
				<b>Ground Surface Elevation</b>									
	0.5			2" asphalt									
	1			9" stone									
	1.5			brown silty clay <b>CLAY (CL)</b>	1	--	--	--	--	--	AS	--	--
	2												

2.0'  
End

2.0'  
End

Note: The stratification lines indicated are estimated - the transition between soil types may be more gradual.

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**Date:** March 8, 2010

<b>Client: Wheeling Park District</b>		<b>Project: Community Rec. Center, 333 W. Dundee Road</b>													
FILE NO.	4122-1	Depth	C-3	Soil Type	S	N	Qu	Qp	Wc	Yd	MS	%R	%O		
<b>LOG OF TEST BORING</b>				<b>Ground Surface Elevation</b>											
		0.5		5" asphalt											
		1		9" stone											
		1.5		brown silty clay <b>CLAY (CL)</b>	1	--	--	--	--	--	AS	--	--		
		2													
<b>Legend</b> S = Sample No. N = Penetration (blows/foot) Qu = Unconfined Strength (tons/square ft.) Qp = Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading (tons/square ft.) Wc = Water Content in % Yd = Dry Density (pcf) MS = Method of Sample SS = Split - Spoon Sample AS = Auger Sample ST = Shelby Tube Sample %O = Percent Organic %R = Percent Recovery = Water Level After Sampling = Water Level While Sampling		2.0' End													
		Drill Date : 3/8/10  Technician : Nick Terzo  Drafting : Julia McBirnie		Depth	C-4	Soil Type	S	N	Qu	Qp	Wc	Yd	MS	%R	%O
						<b>Ground Surface Elevation</b>									
				0.5		2" asphalt									
1				10" stone											
1.5		brown silty clay <b>CLAY (CL)</b>	1	--	--	--	--	--	AS	--	--				
2															
		2.0' End													

Note: The stratification lines indicated are estimated - the transition between soil types may be more gradual.

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Date: March 8, 2010

Client: Wheeling Park District		Project: Community Rec. Center, 333 W. Dundee Road												
FILE NO.	4122-1	Depth	C-5	Soil Type	S	N	Qu	Qp	Wc	Yd	MS	%R	%O	
<b>LOG OF TEST BORING</b>				<b>Ground Surface Elevation</b>										
	0.5			3" asphalt										
	1			9" stone										
	1.5			brown silty clay, wet stone <b>CLAY (CL)</b>	1						AS			
	2					--	--	--	--	--		--	--	
2.0' End														
<b>Legend</b> S = Sample No. N = Penetration (blows/foot) Qu = Unconfined Strength (tons/square ft.) Qp = Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading (tons/square ft.) Wc = Water Content in % Yd = Dry Density (pcf) MS = Method of Sample SS = Split - Spoon Sample AS = Auger Sample ST = Shelby Tube Sample %O = Percent Organic %R = Percent Recovery = Water Level After Sampling = Water Level While Sampling														
Drill Date : 3/8/10  Technician : Nick Terzo  Drafting : Julia McBirnie		Depth	C-6	Soil Type	S	N	Qu	Qp	Wc	Yd	MS	%R	%O	
				<b>Ground Surface Elevation</b>										
		0.5			1.5" asphalt									
		1			10" stone									
		1.5			brown silty clay <b>CLAY (CL)</b>	1						AS		
2					--	--	--	--	--		--	--		
2.0' End														



Note: The stratification lines indicated are estimated - the transition between soil types may be more gradual.

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Date: March 8, 2010

Client: Wheeling Park District		Project: Community Rec. Center, 333 W. Dundee Road														
FILE NO.	4122-1	Depth	C-7	Soil Type	S	N	Qu	Qp	Wc	Yd	MS	%R	%O			
<b>LOG OF TEST BORING</b>		<b>Ground Surface Elevation</b>														
				4" asphalt												
		0.5														
		1		10" stone												
		1.5		brown silty clay <b>CLAY (CL)</b>	1	--	--	--	--	--	AS	--	--	--		
<b>Legend</b> S = Sample No. N = Penetration (blows/foot) Qu = Unconfined Strength (tons/square ft.) Qp = Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading (tons/square ft.) Wc = Water Content in % Yd = Dry Density (pcf) MS = Method of Sample SS = Split - Spoon Sample AS = Auger Sample ST = Shelby Tube Sample %O = Percent Organic %R = Percent Recovery  = Water Level After Sampling  = Water Level While Sampling		2														
		2.0' End														
		Drill Date : 3/8/10 Technician : Nick Terzo Drafting : Julia McBirnie		<b>Ground Surface Elevation</b>												
						5" asphalt										
				0.5												
1				5" stone												
1.5				brown silty clay <b>CLAY (CL)</b>	1	--	--	--	--	--	AS	--	--	--		
		2														
		2.0' End														

Note: The stratification lines indicated are estimated - the transition between soil types may be more gradual.