

**PUBLIC BUILDING COMMISSION OF CHICAGO
FIFTH AMENDMENT
CONTRACT NUMBER PS821**

THIS FIFTH AMENDMENT AGREEMENT is made and entered into as of the 15th day of April, 2009.

, and shall be deemed and taken as forming a part of the Agreement for Architect of Record Services ("Agreement") for New Westinghouse High School between by and between the **PUBLIC BUILDING COMMISSION OF CHICAGO**, a municipal corporation of the State of Illinois ("Commission") and **DeStefano and Partners, Ltd.** ("Architect") dated March 8, 2005 with the like operation and effect as if the same were incorporated therein.

WITNESSETH:

WHEREAS, the Commission and Architect have heretofore entered into an Agreement dated the 8th day of March, 2005, ("Agreement"), wherein the Architect is to provide Architect of Record Services for New Westinghouse High School; and

WHEREAS, the Commission and Architect now desire to amend the Agreement to include additional Services performed and associated compensation due to Architect;

NOW THEREFORE, in consideration of the provisions and conditions set forth in the Agreement and herein, the parties hereto mutually agree to amend the Agreement as hereinafter set forth.

It is agreed by and between the parties hereto that the sole modification of, changes in, and amendments to the Agreement pursuant to this Amendment are as follows:

TERMS

1. Recitals

THE ABOVE RECITALS ARE EXPRESSLY INCORPORATED IN AND MADE A PART OF THE AMENDMENT AGREEMENT AS THOUGH FULLY SET FORTH HEREIN.

2. Schedule A - Scope of Services

Section A.5 – ADDITIONAL RESPONSIBILITIES AND REPRESENTATIONS is revised to add the following services:

A.5.3. The Architect shall provide the following PBC-requested additional services:

1. Revise the design of the Storm Water Detention System which includes: removal of two existing underground systems and their replacement with an infiltration system; combining two outlets into one (requires computation of a new outlet design rate); changing the grading; revising the specifications for the backflow preventer; revising the drawings as needed; coordinating meetings with Department of Water Management; submitting revisions to the Department of Water management for approval;
2. The Architect to obtain Storm Water Permit from the Department of Water Management which includes: Submitting plans and calculations for permit; attending required meetings; revising plans as required to obtain permit.

3. Schedule C Compensation of the Architect

Section C.1 Architect's Fee is revised to include as follows:

- C.1.3 The Architect shall be paid the amount of \$10,000.00 for the additional services outlined in Item 2 of this Amendment 5.

The Fixed Fee is increased to a total of \$4,485,895.00.

Execution of this Amendment by the Architect is duly authorized by the Architect, and the signature(s) of each person signing on behalf of the Architect have been made with the complete and full authority to commit the Architect to all terms and conditions of this Amendment.

All capitalized terms not defined herein shall have the meaning ascribed to them in the agreement. Except as and to the extent that the terms of the Agreement are amended and modified herein, all terms of the Agreement shall remain in force and effect.

IN WITNESS WHEREOF, the parties hereto have agreed and executed this Amendment Agreement No. 5.

ATTEST:

**PUBLIC BUILDING COMMISSION
OF CHICAGO**

BY: *Edgwick C. Johnson* Date: 5-4-09
Edgwick C. Johnson
Secretary

BY: *Richard M. Daley* Date: _____
Richard M. Daley
Chairman

ARCHITECT

DESTEFANO AND PARTNERS, LTD.

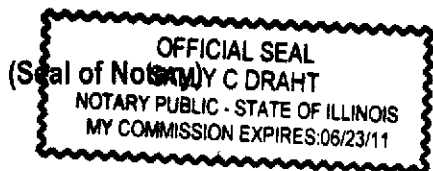
By: *Mary Ann Van Hook* Date: April 23, 2009
Mary Ann Van Hook
Secretary / Shareholder

Subscribed and sworn to me this

24th day of April 2009.

Sally C. Draht
Notary Public

My Commission expires: June 23, 2011



APR 14 1960
1486 21 1041
UNIVERSITY OF CALIFORNIA
LIBRARY



Richard J. Daley Center
50 W. Washington Street
Room 200
Chicago, Illinois 60602
(312) 744-3090
Fax: (312) 744-8005
www.pbcchicago.com

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Assistant Secretary
PATRICK J. HARNEY

April 20, 2009

Mary Van Hook
DeStefano and Partners, Ltd.
445 East Illinois Street, Suite 250
Chicago, IL 60611

**Re: Amendment No. 5
Professional Service Agreement PS 821
Architect of Record Services for Westinghouse High School**

Dear Ms. Van Hook:

Enclosed is Amendment No.5 to the above referenced agreement. Please return all copies of the signed and notarized amendment to my attention within ten (10) days from the date of this letter.

An incomplete execution page may delay final execution of the Amendment and processing of invoices. Upon acceptance of the amendment by the Public Building Commission, a fully executed copy will be returned to you.

Sincerely,

Deborah Burton
Director of Procurement

DB/dz

**PUBLIC BUILDING COMMISSION OF CHICAGO
FIFTH AMENDMENT
CONTRACT NUMBER PS821**

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1. Recitals

THE ABOVE RECITALS ARE EXPRESSLY INCORPORATED IN AND MADE A PART OF THE AMENDMENT AGREEMENT AS THOUGH FULLY SET FORTH HEREIN.

2. Schedule A - Scope of Services

Section A.5 – ADDITIONAL RESPONSIBILITIES AND REPRESENTATIONS is revised to add the following services:

A.5.3. The Architect shall provide the following PBC-requested additional services:

1. Revise the design of the Storm Water Detention System which includes: removal of two existing underground systems and their replacement with an infiltration system; combining two outlets into one (requires computation of a new outlet design rate); changing the grading; revising the specifications for the backflow preventer; revising the drawings as needed; coordinating meetings with Department of Water Management; submitting revisions to the Department of Water management for approval;
2. The Architect to obtain Storm Water Permit from the Department of Water Management which includes: Submitting plans and calculations for permit; attending required meetings; revising plans as required to obtain permit.

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Section C.1 Architect's Fee is revised to include as follows:

- C.1.3 The Architect shall be paid the amount of \$10,000.00 for the additional services outlined in Item 2 of this Amendment 5.

The Fixed Fee is increased to a total of \$4,485,895.00.

Execution of this Amendment by the Architect is duly authorized by the Architect, and the signature(s) of each person signing on behalf of the Architect have been made with the complete and full authority to commit the Architect to all terms and conditions of this Amendment.

All capitalized terms not defined herein shall have the meaning ascribed to them in the agreement. Except as and to the extent that the terms of the Agreement are amended and modified herein, all terms of the Agreement shall remain in force and effect.

IN WITNESS WHEREOF, the parties hereto have agreed and executed this Amendment Agreement No. 5.

ATTEST:

**PUBLIC BUILDING COMMISSION
OF CHICAGO**

BY: _____ Date: _____
Edgrick C. Johnson
Secretary

BY: _____ Date: _____
Richard M. Daley
Chairman

ARCHITECT

DESTEFANO AND PARTNERS, LTD.

By: _____ Date: _____
Mary Ann Van Hook
Secretary / Shareholder

Subscribed and sworn to me this

_____ day of _____ 20_____.

Notary Public

My Commission expires: _____

(Seal of Notary)

Public Building Commission of Chicago
Proposed Amendment Report to the Administrative and Operations Committee
April 9, 2009

A7.

Amendment	Project	Consultant	Reason for the Proposed Amendment	Current Cost of Construction (including approved change orders)	Amount of the Proposed Amendment	Consultant's Fee including the Proposed Amendment Fee	Consultant's Fee including the Proposed Amendment Fee as a % of the Current Cost of Construction
1	12th District Police Station	VOA (PS 624 - A4) AOR	This amendment represents additional services in the amount of \$47,997.00 for the Architect of Record to provide conceptual site design services for the project site bounded by S. Throop Street to the west, W. 14th Street to the north, S. Blue Island to the east, and W. 15th St. to the south. Additionally, the consultant's reimbursable fee will be increased by \$5,000.00. The services represented in this amendment were not included in the original scope of the Professional Services Agreement.	TBD	\$47,997.00	\$916,785.00	TBD
2	Westinghouse High School	DeStefano & Partners (PS 821 - A5) AOR	This amendment represents additional services in the amount of \$10,000.00 for the Architect of Record's subconsultant to revise the design of the Phase 4 Storm Water Detention System (\$7,500.00) and provide services to acquire permit from the Department of Water Management for the Phase 4 Storm Water Detention System (\$2,500.00). The services represented in this amendment were not included in the original scope of the Professional Services Agreement.	\$69,089,000.00	\$10,000.00	\$4,485,895.00	6.5%
3	Vehicle Maintenance Facility	TENG (PS 1024 - A4) AOR	This amendment represents additional services in the amount of \$5,610.00 for the Architect of Record to provide the following scope of work: 1. Provide documents and plans for the deletion of piping, instrumentation, and hardware associated with the exterior hose reel portion of the Fluids Distribution System in Area A and for the restoration of the metal siding and CMY - \$960.00. 2. Provide documents and shop drawings for the revision of welding outlets and associated electrical provisions to accommodate new welders in lieu of one that was to be relocated by client - \$4,650.00. The services represented in this amendment were not included in the original scope of the Professional Services Agreement.	\$15,482,499.00	\$5,610.00	\$1,030,785.00	6.7%

**PUBLIC BUILDING COMMISSION OF CHICAGO
PROPOSED AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT**

PA No.: 5

Client:	<u>Chicago Public Schools</u>	Date:	<u>March 10, 2009</u>
Project Name:	<u>Westinghouse High School</u>	Project Number:	<u>1338</u>
Consultant:	<u>DeStefano & Partners</u>	PS Number:	<u>PS821</u>
Requestor:	<u>Eras Beseka - PBC PM</u>		

AS A RESULT OF THIS AMENDMENT:

The Consultant's Fee will be	<input checked="" type="checkbox"/> Increased by: <input type="checkbox"/> Decreased by:	\$	<u>10,000.00</u>
	Original Consultant's Fee:	\$	<u>2,599,840.00</u>
	Previously Approved Amendments:	\$	<u>1,876,055.00</u>
	Current Consultant's Fee:	\$	<u>4,475,895.00</u>
	Proposed Revised Consultant's Fee:	\$	<u>4,485,895.00</u>

Funding Source for Proposed Amendment: _____

ADDITIONALLY AS A RESULT OF THIS AMENDMENT:

The Consultant's Reimbursables will be	<input checked="" type="checkbox"/> increased by: <input type="checkbox"/> Decreased by:	\$	<u>0</u>
	Original Consultant's Reimbursables:	\$	<u>250,000.00</u>
	Previously Approved Amendments:	\$	<u>50,000.00</u>
	Current Consultant's Reimbursables:	\$	<u>300,000.00</u>
	Proposed Revised Consultant's Reimbursables:	\$	<u>300,000.00</u>

Funding Source for Proposed Amendment: _____

DESCRIPTION OF AMENDMENT:

This amendment covers the scope of services provided by Destefano & Partners (D+P) subconsultant, Environmental Design International Inc. (EDI) to revise the design of the Westinghouse HS Phase 4 Storm Water Detention System (\$7,500.00), and provide services to acquire permit from the Department of Water Management (DWM) for the Phase 4 Storm Water Detention System (\$2,500.00).

1. Revising the design of the Storm Water Detention System includes: removal of two existing underground systems and their replacement with an infiltration system; combining two outlets into one (requires computation of a new outlet design rate); changing the grading plan; revising the specifications for the backflow preventer; revising the drawings as needed; coordinating meetings with DeStefano & DWM; submitting revisions to the Department of Water Management for approval.
2. Obtaining the required Storm Water Permit from Department of Water Management includes: Submitting plans and calculations for permit; attending required meetings; revising plans as required to obtain permit.

REASON FOR AMENDMENT: (Attach any pertinent contract references.)

This amendment is to provide design revisions on the initial design and the permit drawings of the storm water detention system. The initial design of the storm water detention system was revised following VE studies. The revisions were provided by EDI, and resulted to a savings estimated at \$800,000.00. During the process of filing for the permit, further changes were necessary resulting from the permit review process. The changes which are covered in this amendment are expected to cost \$65,000.00. The modification would result to a revised net savings of \$735,000.00.

Recommended - Project Manager

Recommended - PBC Deputy Director for Municipal Design

Recommended - PMO Deputy Program Manager for Design Management
Attachment: Proposal

Recommended - PBC Deputy Director for Education Design



PHASE 4 SERVICES
Civil Engineering Services
Westinghouse High School
September 16, 2008

The following are the Phase 4 Scope of Services revised to account for the new infiltration system design requested.

1. Phase 4 – Storm Water Design Revisions

The design will be revised as follows:

- The system will be redesigned to remove the two existing underground systems and replace it with an infiltration system.
- The design will combine two outlets into one requiring computation of a new outlet design rate
- The work will be submitted to the Department of Water Management for approval.
- Drawings will be revised as needed.
- Grading Plan will not be changed
- Specification revisions will be for the backflow preventer only

Meetings – Meetings with De Stefano (1)
Meetings with PBC (0)
Meetings with DWM (3)
Meetings in field (0)

Cost \$7,500



*Environmental Design
International inc.*

33 W. Monroe St., Suite 1825
Chicago, Illinois 60603
phone: 312.345.1400
fax: 312.345.0529
www.envdesigni.com

March 11, 2009

Mr. Jeff Peck AIA
De Stefano Partners Ltd.
445 East Illinois Street Suite 250
Chicago, IL 60611

**Subject: Westinghouse High School
Department of Water Management Approval**

Dear Mr. Peck,

Environmental Design International inc. (EDI) is providing the following pricing to De Stefano Partners, Ltd. for obtaining the required Storm Water Permit from Department of Water Management (DWM) for Westinghouse High School Phase 4. This was necessitated by the meeting held March 10, 2009 at DWM headquarters. This will be the fourth permitting process for this Phase.

The third permitting process was ruled invalid, at the above referenced meeting, due to existing field conditions that were not properly identified during the geotechnical assessment of the site that was performed by GSG Consultants, Inc. The actual existing geotechnical conditions require modifications to the drainage system that will allow the required percolation of stormwater runoff.

This proposal is based on discussions between EDI and Andrew Billing of the DWM, and our knowledge of this type of Work.

EDI shall perform the following activities in obtaining the revised DWM Permit:

- Submit Plans and Calculations for obtaining Permit for the Department of Water Management based on the revised conditions.
- Attendance at review meetings with the Department of Water Management; and
- Plan revisions as required by the Department of Water Management.

Upon approval from the Department of Water Management, EDI shall provide to De Stefano the required forms to be executed by the Public Building Commission.

EDI proposes to perform the services associated with receiving the DWM approval for a lump sum price of Two Thousand Five Hundred Dollars (\$2,500.00).



*Environmental Design
International inc.*

33 W. Monroe St., Suite 1825
Chicago, Illinois 60603
phone: 312.345.1400
fax: 312.345.0529
www.envdesigni.com

If you find this proposal and services to be provided satisfactory please forward one original executed contract agreement to EDI at which time an agreed upon schedule for these services shall be defined.

Respectfully,

Environmental Design International, Inc.

Craig Chambers, P.E.
Vice President, Engineering Division

APPROVED

De Stefano Partners Ltd.

Date

**Phase 4 add service**

Jeff Peck [JPeck@dplusp.com]

Sent: Wednesday, September 17, 2008 8:41 AM**To:** Ray Giderof [rgiderof@cityofchicago.org]**Cc:** Eras Beseka**Attachments:** [Civil Scope of Services-Ph~1.pdf \(12 KB\)](#) (Open as Web Page)

Ray,

Per our conversation last night please confirm that the PBC will approve the attached proposal from our civil engineer for the redesign of the Phase 4 storm water detention system including the necessary calculations. The proposal is in the amount of \$7,500.00 and as the result of the storm water redesign work it is anticipated that this could save the PBC approximately \$800,000.00. Please note that DeStefano and Partners is not requesting additional compensation for our Phase 4 value engineering efforts.

If you have any questions regarding the proposal please feel free in calling me. Please send me your confirmation that this proposal will be approved ASAP as this will help me in pushing my engineer to finish his drawings by next Tuesday.

Sincerely,
Jeff

Jeffrey Peck, AIA, LEED AP
Senior Associate
DE STEFANO AND PARTNERS, LTD.
445 East Illinois Street, Suite 250
Chicago, Illinois 60611
Phone: 312.464.6462 Fax: 312.836.4322
JPeck@dplusp.com
<http://www.destefanoandpartners.com/>

**Westinghouse Detention Basin Conceptual Estimate**

You replied on 3/23/2009 10:20 AM.

Richard Winkler [RWinkler@FHPaschen.com]

Sent: Monday, March 23, 2009 10:16 AM

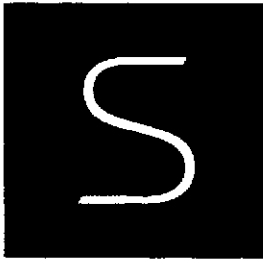
To: Eras Beseka

Cc: 'Ryan Burwell' [r.burwell@gordian-group.com]

Eras,

As we discussed, the additional work required in the Detention Basin is \$65,000. This conceptual estimate is based on the information presented to FHP and our utility contractor at our last couple of meetings at Department of Water Management. When final drawings are issued, we will re-price according to all items listed on the approved plans. Please contact me with any questions.

Richard Winkler
F.H. Paschen, SN Nielsen
8725 W. Higgins Rd, Suite 200
Chicago, IL 60631
P: 773.444.3474
F: 773.719.0957



GSG CONSULTANTS, INC.

855 West Adams, Suite 200
Chicago, Illinois 60607
tel: 312.733.6262 • fax: 312.733.5612

September 11, 2008

Mr. Jeffrey Peck, AIA, LEED AP
Senior Associate
DE STEFANO AND PARTNERS, LTD.
445 East Illinois Street, Suite 250
Chicago, Illinois 60611

Subsurface Investigation Summary Report
Westinghouse School – Phase IV
3301-3347 West Franklin Blvd, Chicago, IL

Dear Mr. Peck:

This letter report presents the result of the limited subsurface completed at the above referenced property. The objective of the subsurface investigation was to documents the soil profile adjacent to the former building basement (Gymnasium building), and to determine the percolation rate of soil beneath the slab of the former Gymnasium building. The subsurface soil investigation consisted of advancing two (2) soil borings at the site. The attached exhibit provides the location of the soil borings completed during this phase of the site investigation.

Subsurface Investigation

The subsurface investigation was conducted on September 10, 2008, and included advancing two (2) soil borings. The first boring was advanced in the vicinity of the proposed football field to a depth of 10 feet, and the second soil boring was advanced at the northeast corner of the site near the former Gymnasium building.

GSG performed the field exploration activities using standard penetration test procedures in accordance with the ASTM D1586-99, "Penetration Test and Split-barrel Sampling of Soil." Water level measurements were also made in each boring when evidence of free groundwater was detected on the drill rods or in the sample. The borehole was also checked for free water immediately after auger removal and before filling the open boreholes with soil cuttings. The soil borings were drilled using a D-120 truck-mounted drill rig using 3/4-inch I.D. hollow-stem augers to advance the borehole. GSG collected representative soil samples from each boring commencing at a depth of 3.5 feet and at 5- ft. intervals thereafter to boring termination using the standard penetration test procedures. In this procedure, a 2 inch O.D. split-spoon sampler is driven 18 inches into undisturbed soil using a 30 inch drop of a 140 pound hammer. The number of hammer drops (Blow Counts) is recorded at six 6" intervals for each sample collected. The number of blows to advance the sampler 12 inches is called the standard penetration test (SPT) values. The SPT values are shown on the boring logs. GSG's field representative visually

classified the soils according to the Unified Soil Classification System (ASTM 2487), performed pocket penetrometer tests on all cohesive soil samples to estimate their unconfined compressive strength, and obtained relatively undisturbed bulk samples of the subsurface soil for laboratory testing. The results of the pocket penetrometer test are shown on the boring logs. Soil samples obtained from the borings were placed in 4 inch geotechnical glass jars to reduce moisture loss and disturbance. After the borings were completed, they were converted into test well locations TW-1, TW-2).

Subsurface Soil Profile

The subsurface soil profile consisted of aggregate materials extending from the surface to a depth of approximately 3.5 feet. This was followed by stiff to hard light brown silty clay with gray mottling to boring termination. Detailed descriptions of the subsurface soil profile are provided in the soil boring logs in Appendix A. The soil boring log includes soil descriptions, stratifications, penetration resistance, elevations, location of the samples, and laboratory test data. The stratification shown on the boring logs represent the conditions only at the actual borings locations. The stratification represents the approximate boundary between subsurface materials; however, the actual transition may be gradual. Groundwater was not encountered at the site during the performance of the subsurface investigation.

In-Situ Percolation Testing

GSG installed two piezometers in the native soil layers at both soil boring locations. The piezometer consisted of 2.5 foot slotted screen and PVC riser. To isolate the clay layer observed a sand pack was installed in the borehole annulus around the slotted screen and a 1-foot thick bentonite seal was installed above the sand pack. The sand pack and soils surrounding the screened interval were saturated for 1-hour prior to the actual testing event. Test results from TW-1 indicated that the permeability of the silty clay materials are in the range of 0.2 inches per hour, the test was allowed to run for a total of 2 1/2 hours.

The testing procedure at TW-2 varied slightly from that at TW-1, the sand pack and soils surrounding the screened interval were saturated for 45 minutes prior to the actual testing event and the entire test was allowed to run for 17 hours, the results indicate that the permeability of the silty clay materials are in the range of 0.03 inches per hour.

The table below presents the Infiltration testing results. In general, the results indicate that the subsurface soil at the site is of permeability between 0.2 and 0.03 inch/hour. It is GSG's opinion that the 0.03 inch per hour rate is most representative of the actual site conditions, and should be considered during development of design.



Infiltration Rates	
TW-1	
Time	Depth to Water from top of casing
14:15 – 15:15	Soils Saturated
15:15	5.20'
16:15	5.50'
16:45	5.50
TW-2	
Time	Depth to Water from top of casing
15:20 – 16:05	Soils Saturated
16:05	5.38
16:50	5.50'
17:20	5.60'
17:35	5.60'
09:05 (9-11-08)	5.90'

Should be you have any questions or require additional information regarding this report, please call us at 312-733-6262.

Sincerely,

GSG CONSULTANTS, INC



Ala E. Sassila, Ph.D, PE
Principal





GSG CONSULTANTS, INC.

855 West Adams, Suite 200
Chicago, Illinois 60607
tel: 312.733.6262 • fax: 312.733.5612

CLIENT: Public Building Commission of Chicago

SHEET 1 OF 1

PROJECT: Westinghouse Campus Park

LOCATION: N.Homan and W. Franklin Blvd.

Chicago, Illinois

LOGGED BY: P Sponaugle Date: 9/10/2008 BORING NUMBER: TW2 DEPTH: 18' GROUND ELEVATION:

DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (INCHES/LENGTH)	SAMPLE RECOVERY	BLOW COUNTS	Bulk Unit Weight (PCF)	TESTS					NOTES	
							Water Content	Blow Count	Pocket Penetrometer (TSF)	Unconfined Comp. Strength (TSF)			
0.0		FILL: CA-6 at ground surface											
1.0		Drilled without sampling to 3.5 feet											
2.0													
3.0		Resumed sampling at SS-1											
4.0		Silty Clay (CL) - Trace Sand and Gravel - Light Brown with Gray Mottling - Very Stiff - Moist	SS-1 3.5-5.0		2								
5.0			11/18"R		5								
6.0					5								
7.0													
8.0													
9.0		Silty Clay (CL) - Trace Sand and Gravel - Gray - Very Stiff to Hard - Moist	SS-2 8.5-10.0		3								
10.0			18/18"R		7								
11.0					8								
12.0													
13.0													
14.0			SS-3 13.5-15.0		3								
15.0			15/18"R		5								
16.0					9								
17.0													
18.0		END OF BORING - AUGER REFUSAL											
19.0													
20.0													

Drilling Contractor: GeoServices	REMARKS Converted borehole into TW-2 for infiltration testing.	WATER LEVEL (FT) ▽ None while drilling ▽ ▽
Drilling Method: 4 1/4" I.D. Hollow Stem Augers		
Equipment: Diedrich D120		
Started: 10-Sep-08 Ended: 10-Sep-08		

WESTINGHOUSE HIGH SCHOOL, DEMOLITION
 CHICAGO PUBLIC SCHOOLS
 CHICAGO, ILLINOIS
 CITY OF CHICAGO, DEPARTMENT OF PLANNING



DATE	DESCRIPTION

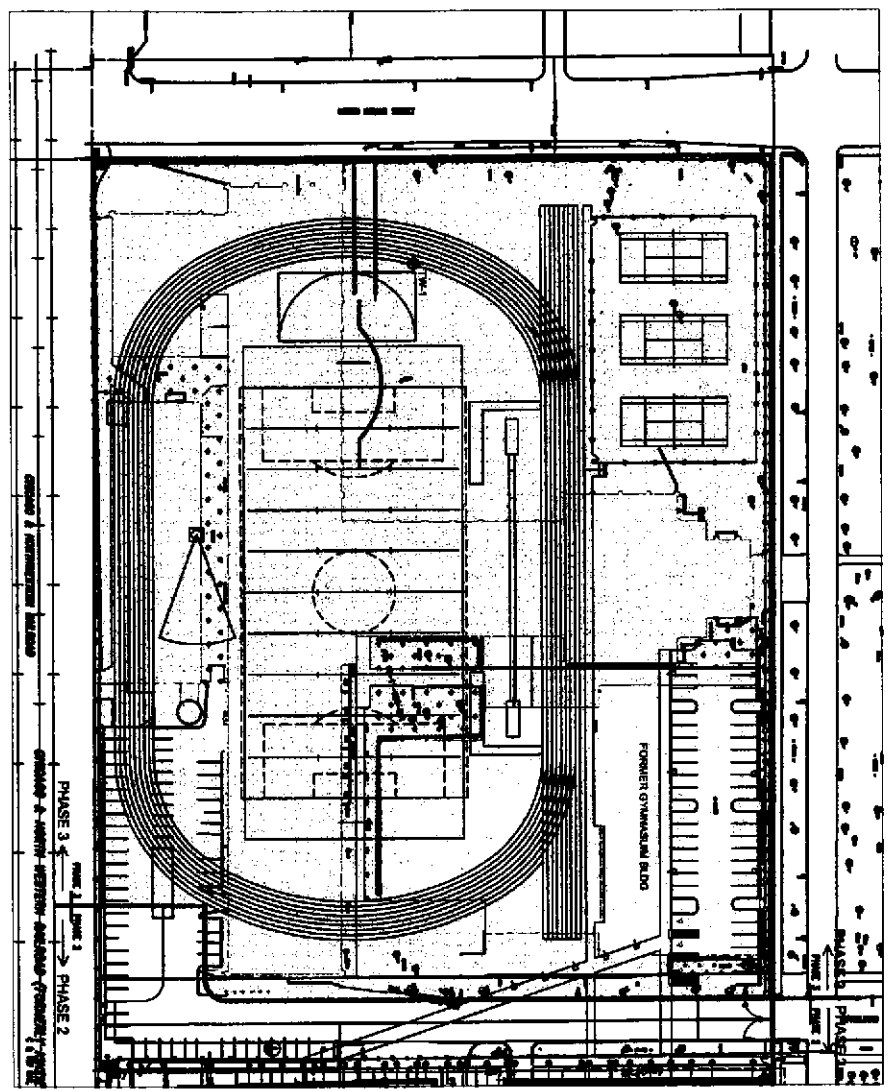
GGG CONSULTANTS, INC.
 850 N. OLIVE, SUITE 300
 CHICAGO, IL 60607
 PHONE: (312) 753-6982
 PHONE: (312) 753-8812



DATE: 11-1-82
 DRAWN: 08/15/82

EX-1

LEGEND:
 ▲ TEST WELL LOCATION



Date: 1/12/2009

RECEIVED

Attn: Frank Hudson
Public Building Commission
50 W. Washington, Suite 200
Chicago, IL 60602

JAN 22 2009

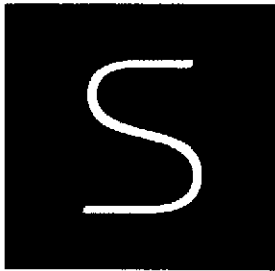
PBCC - FINANCE

Project: Westinghouse School
PS: 821

Invoice No. 25123

For services rendered during the period December 1 through December 31, 2008

Fee for Basic Services		\$2,599,840		
ARCHITECT OF RECORD				
Total Fee		\$2,599,840		
BASIC SERVICES FEE				
				<u>Current Request</u>
Construction Documents	40%	\$1,039,936		
100% Completion			1,039,936.00	
Less Amount Previously Billed			<u>1,039,936.00</u>	0.00
Bidding Phase Services	5%	\$129,992		
100% Completion			129,992.00	
Less Amount Previously Billed			<u>129,992.00</u>	0.00
Construction Phase	45%	\$1,169,928		
83.34% Completion			974,980.00	
Less Amount Previously Billed			<u>926,233.00</u>	48,747.00
Project Close-out	10%	\$259,984		
1.73% Completion			4,500.00	
Less Amount Previously Billed			<u>4,500.00</u>	0.00
Total Basic Services	100%	\$2,599,840		
Total Basic Services Rendered to Date			2,149,408.00	
Less Fee Amounts Previously Invoiced			<u>2,100,661.00</u>	
Total Amount Due this Invoice				\$48,747.00



GSG CONSULTANTS, INC.

855 West Adams, Suite 200
Chicago, Illinois 60607
tel: 312.733.6262 • fax: 312.733.5612

March 6, 2009

Mr. Rick Winkler
F.H.Paschen
8725 West Higgins, Suite 200
Chicago, Illinois 60631

Subsurface Investigation Summary Report
Test Pits in Underground Detention Area
Westinghouse High School – Phase IV
3301-3347 West Franklin Blvd, Chicago, IL

Dear Mr. Winkler:

This report presents the results of the limited subsurface investigation performed by GSG Consultants, Inc. (GSG) in the vicinity of the proposed underground detention system for the Westinghouse High School. GSG performed a total of 4 test pits in this area (see attached location diagram) to a depth of 9 to 10 feet below the current grade to verify the nature and consistency of fill materials present and further evaluate the porosity of the materials encountered.

The current surface elevation of the detention area is approximately 20 CCD. The top of the stone appears to contain frozen materials to a depth of approximately 8 to 12 inches. Standing water was observed in several isolated locations and appears to be related to the frozen surface soils and the compaction of the CA-6 stone. The soil profile in the detention area consisted of approximately 1.5 to 2 feet of CA-6 gradation aggregate, underlain by construction debris to the termination depth of the test pits. Water was encountered in each of the test pits at approximately 5 feet below the ground surface (15 CCD) while excavating and was observed flowing freely into the excavation through the demolition debris. The water levels were surveyed by the contractor to be approximately 5.5 feet below the surface (14.5 CCD) prior to backfilling the test pits several hours later. It was noted that the elevation of the water in the outlet structure, which drains directly to the city storm system, was also measured to be 14.5 CCD, and did not appear to be draining.

The demolition debris primarily consisted of crushed aggregate, sand, brick fragments, and crushed concrete. The aggregate and debris typically varied in size from sand to approximately 4 inches, with some rocks/boulders encountered up to approximately 14 inches in diameter. GSG completed gradation test of the construction and demolition debris. Based on field observations and the results of the gradation test, the porosity of this material is estimated to range between 0.30 and 0.35, which falls into the typical range for both course and fine gravel materials. Please see the attached table from, Physical and Chemical Hydrogeology, showing typical porosity

values for various materials. Several photos have also been attached showing subsurface soil profile and size of typical aggregate and debris sized particles.

Should you have any questions or require additional information, please call us at 312-733-6262.

Sincerely,



Robert J. Claussen, P.E.
Senior Engineer



Ala E Sassila, Ph.D., P.E.
Vice President

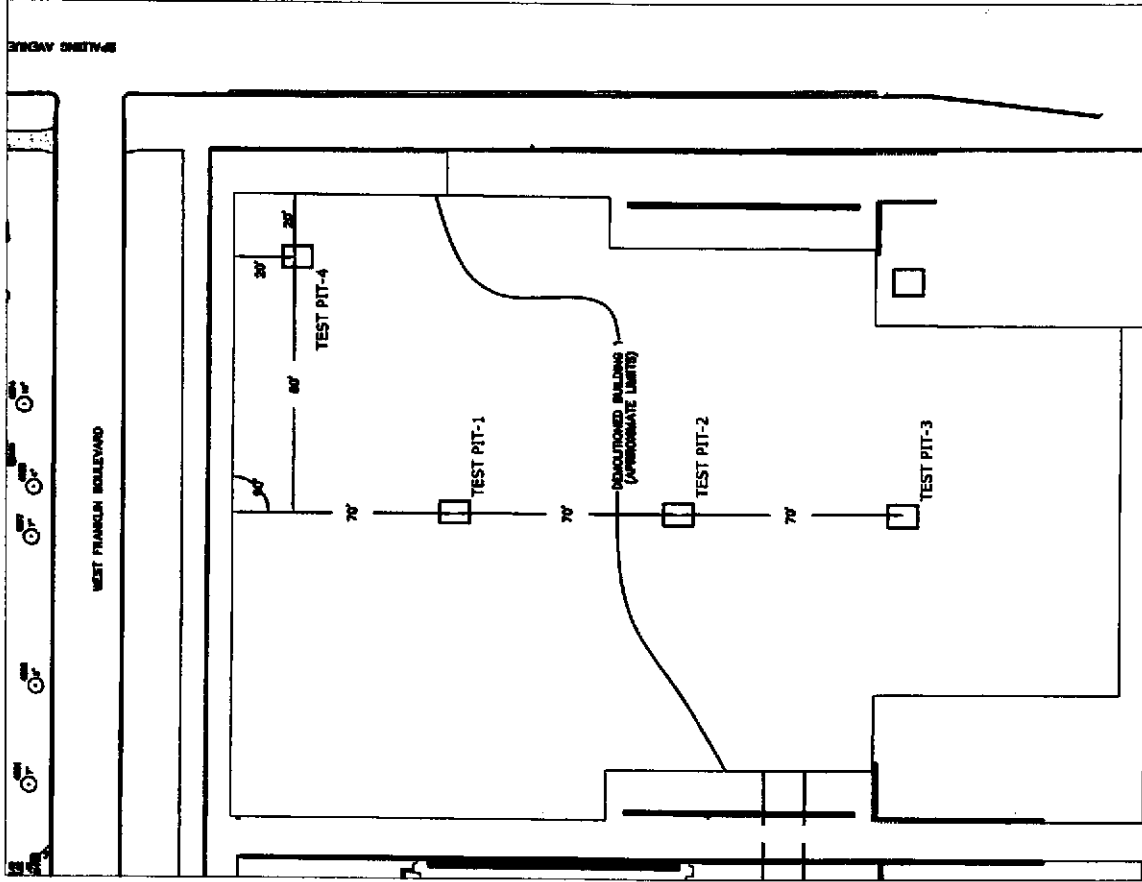
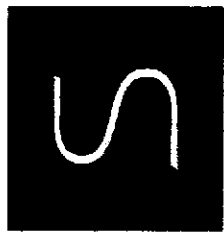


EXHIBIT - TEST PIT LOCATION DIAGRAM
WESTINGHOUSE HIGH SCHOOL
CHICAGO, IL

SCALE: N.T.S.
 DATE: 03-09-09
 DRAWN BY: MAG
 CHECKED BY: RJC

GSG CONSULTANTS, INC.
 855 WEST ADAMS, SUITE 200
 CHICAGO, IL 60607
 PHONE: (312) 733-6262
 FAX: (312) 733-5612

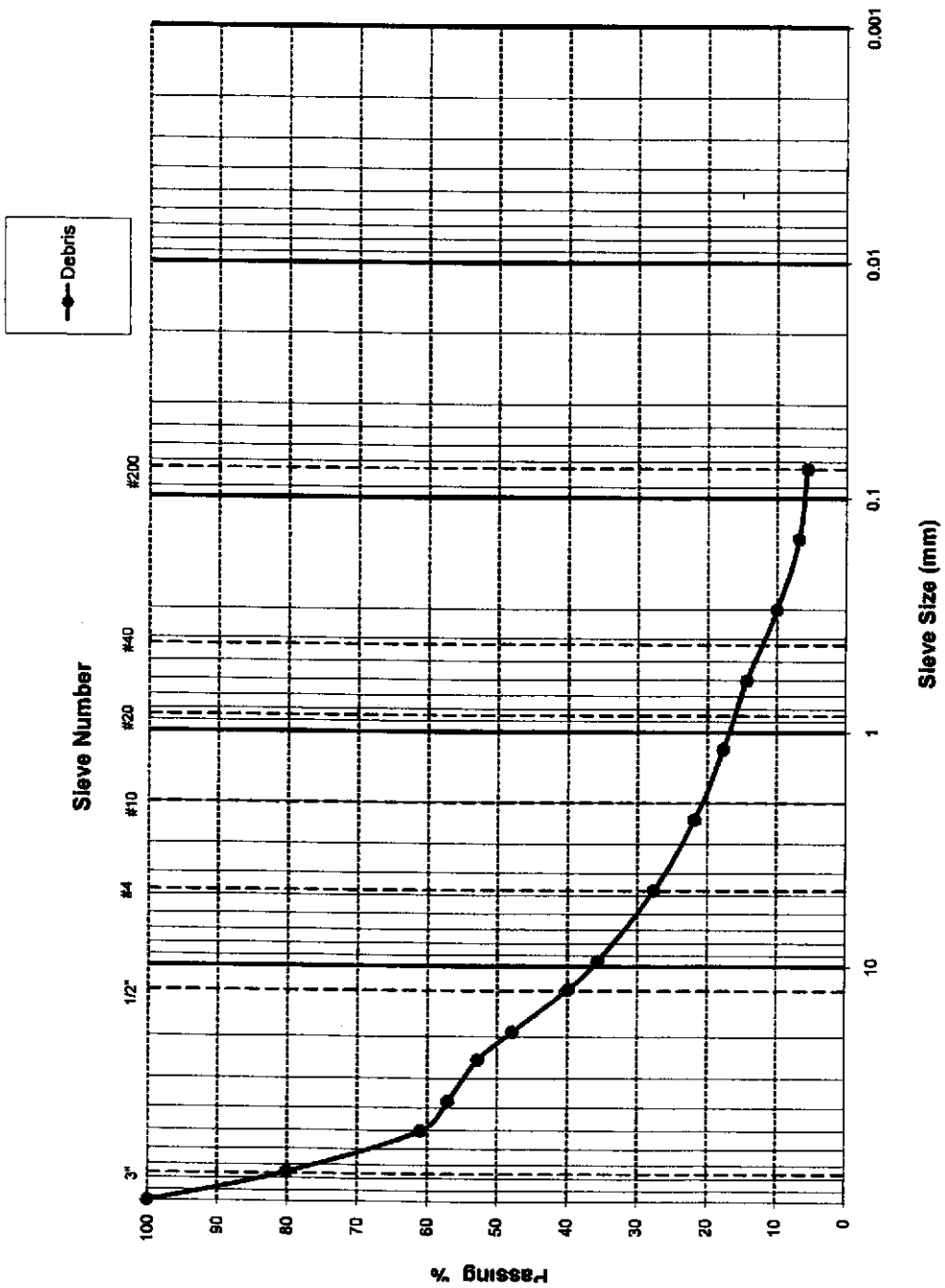




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Westinghouse Detention Area Sieve Analysis Results



Gravel		Sand		Silt or Clay
Coarse	Fine	Coarse to Medium	Fine	

Table 2.1
Range in values of porosity (in part from Davis, 1969, and Johnson and Morris, 1962)

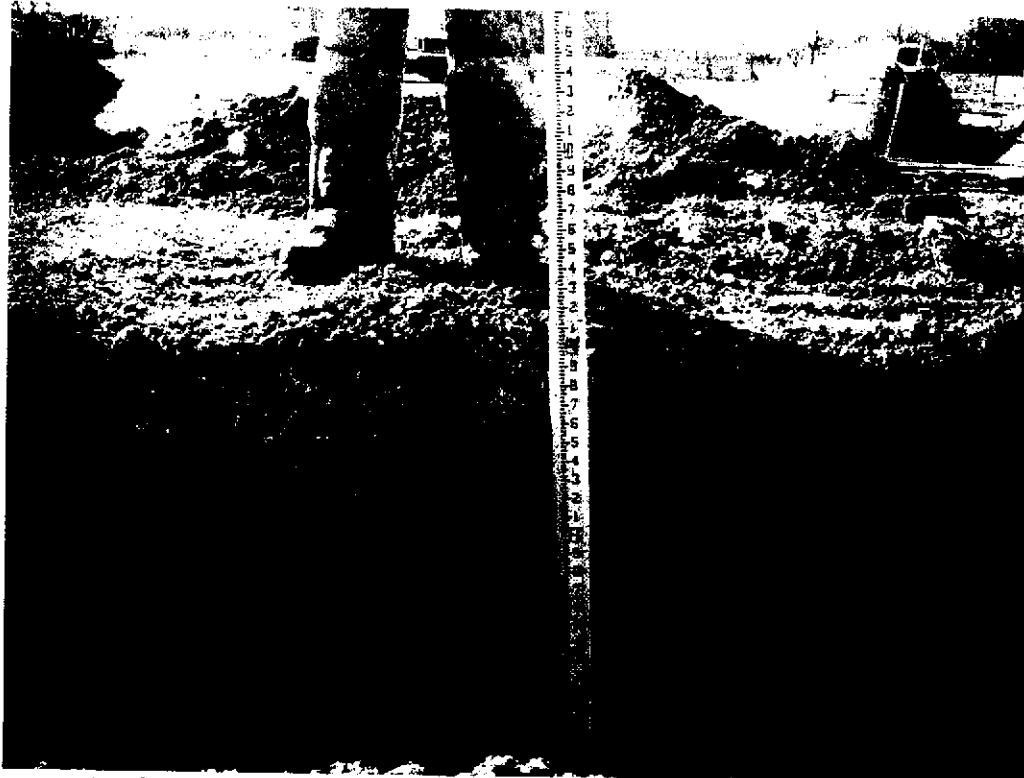
Material	Porosity (%)
SEDIMENTARY	
Gravel, coarse	24-36
Gravel, fine	25-38
Sand, coarse	31-46
Sand, fine	26-53
Silt	34-61
Clay	34-60
SEDIMENTARY ROCKS	
Sandstone	5-30
Siltstone	21-41
Limestone, dolomite	0-20
Karst limestone	5-50
Shale	0-10
CRYSTALLINE ROCKS	
Fractured crystalline rocks	0-10
Dense crystalline rocks	0-5
Basalt	3-35
Weathered granite	34-57
Weathered gabbro	42-45

Table 2.2
Range in values of total porosity and effective porosity

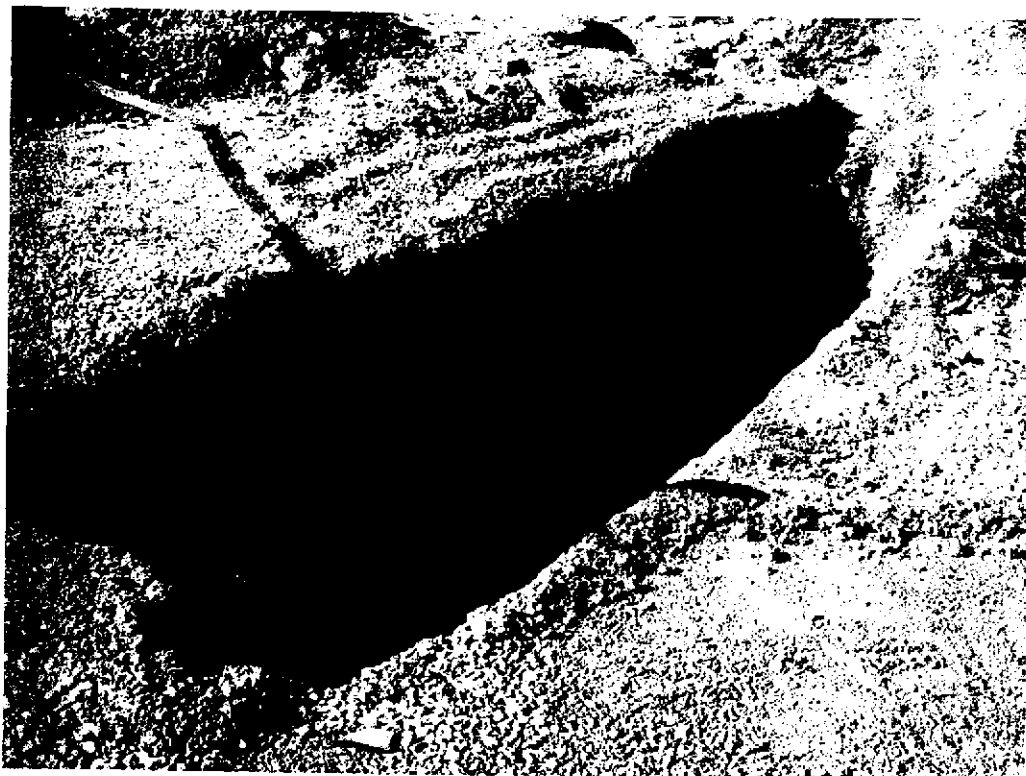
	Total porosity (%)	Effective porosity (%)
Anhydrite ¹	0.5-5	0.05-0.5
Chalk ¹	5-20	0.05-0.5
Limestone, dolomite ¹	5-15	0.1-5
Sandstone ¹	5-15	0.5-10
Shale ¹	1-10	0.5-5
Salt ¹	0.5	0.1
Granite ²	0.1	0.0005
Fracture crystalline rock ²	—	0.00005-0.01

¹Data from Croff and others (1985).

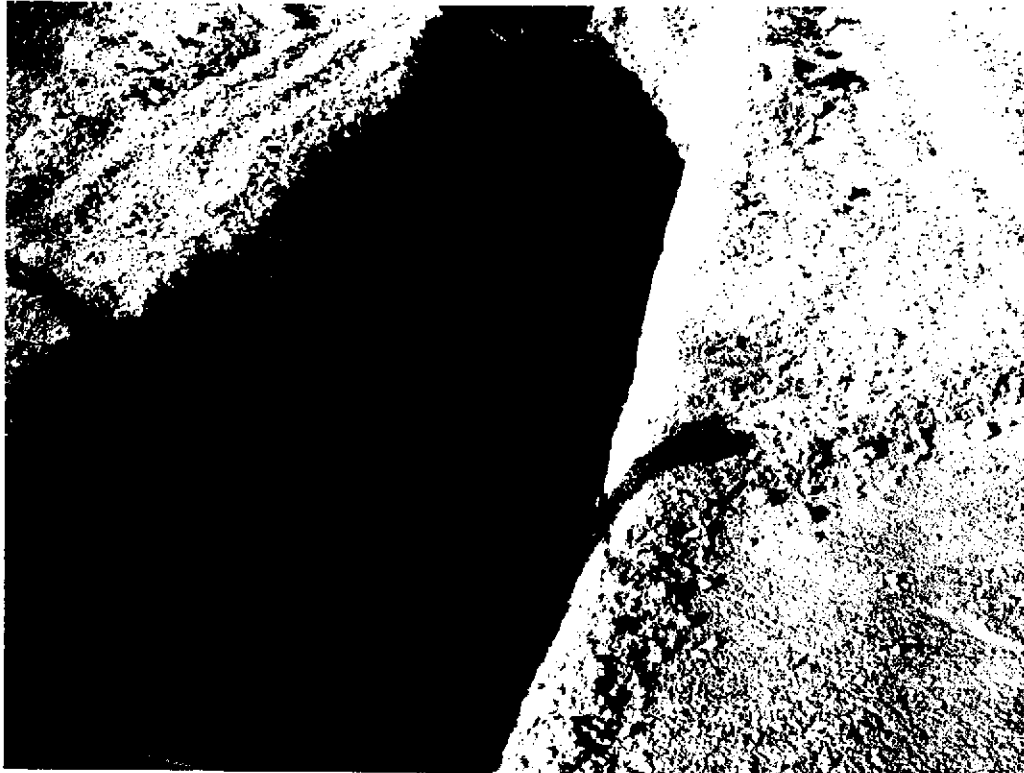
²Data from Norton and Knapp (1977).



1.5 feet of CA-6 gradation material was encountered in the test pits



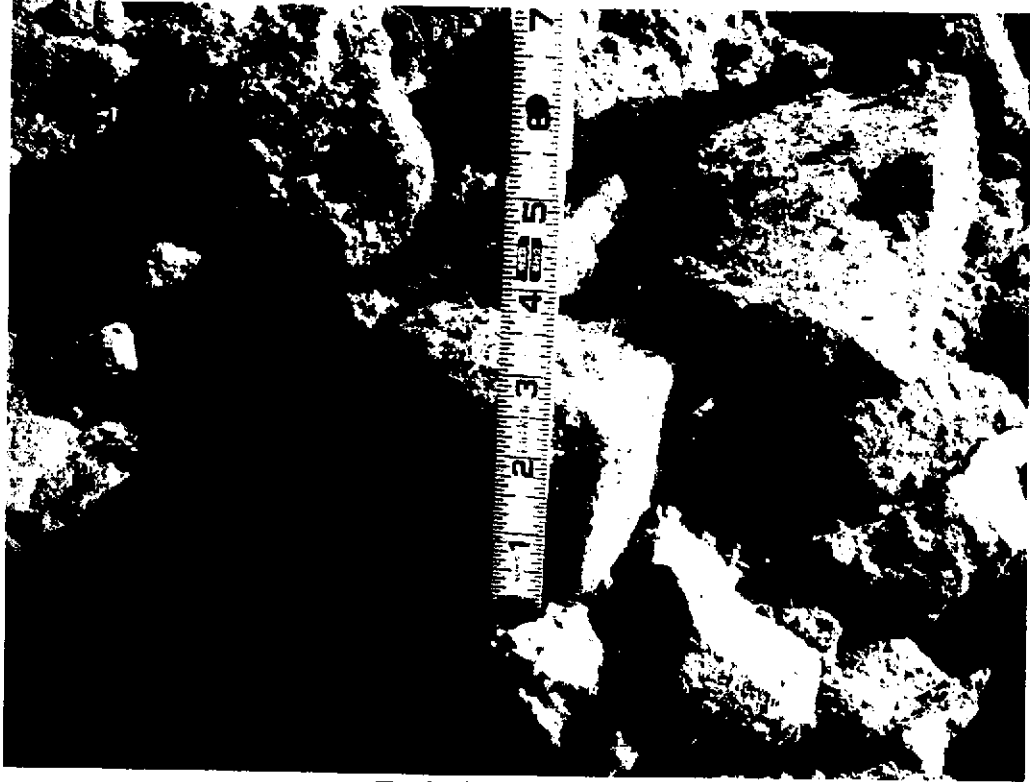
CA-6 gradation material over construction debris



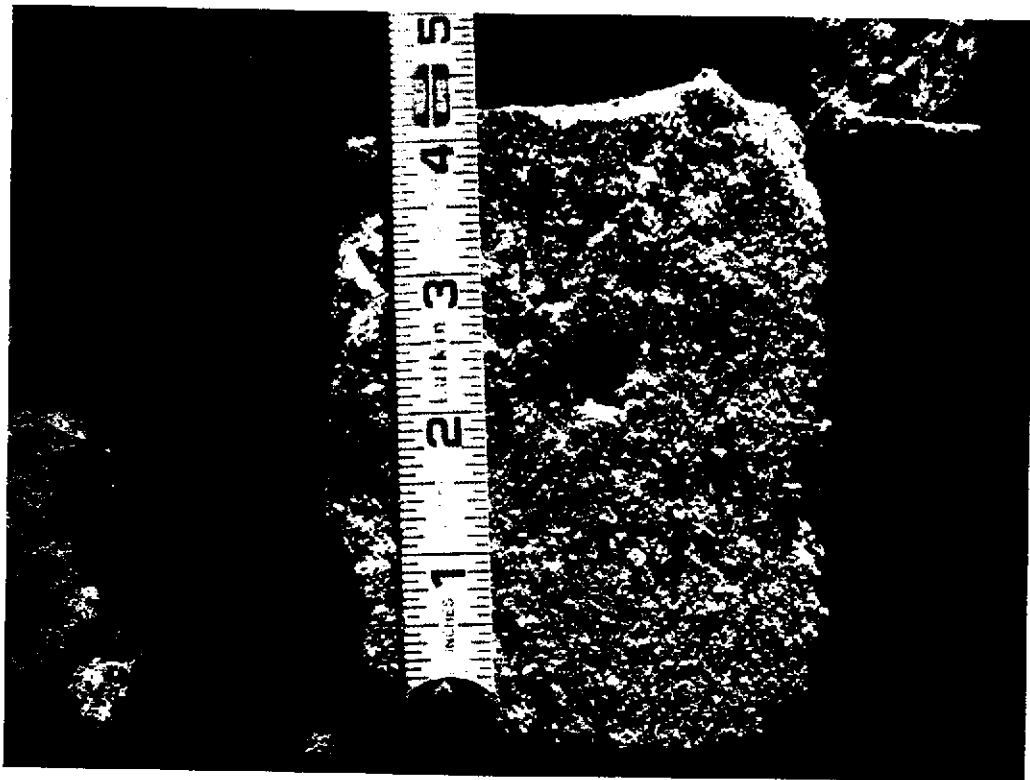
Water observed at approximately 15 CCD while excavating.



Well graded construction debris.



Typical particle sizes.



Typical particle sizes.