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A Tetra Tech Company

October 8, 2003

HAI #99.0331.007
Phase 5
File 12.0

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Via FedEx Overnight

Mr. Kim Ford, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

**Subject: Cell 1 Certification
Enterprise Recycling & Disposal Facility
Angelo's Aggregate Materials, Ltd.
FDEP Permit Nos. 177982-001-SC, 177982-002-SO
Pasco County, Florida**



Dear Mr. Ford:

As requested by Angelo's Aggregate Materials, Ltd. (Angelo's), Hartman & Associates, Inc. (HAI) is submitting this Cell Certification package to the Department to describe the conditions of the site that HAI has certified as constructed in accordance with the requirements of Rule 62-701, F.A.C., HAI's Plan of Action for Cell Certification dated August 21, 2003, and the above referenced construction permit. The attached documentation indicates that Cell 1 has a continuous confining layer, at least 36-inches thick, with a permeability value no greater than 1×10^{-6} cm/s, meeting the certification requirements of the facility construction permit, and is prepared to accept waste.

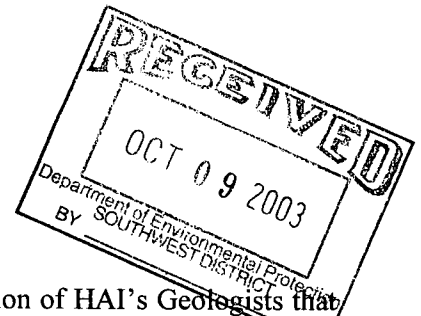
INTRODUCTION

Florida Department of Environmental Protection (Department) permit #177982-001-SC was issued for construction of the Enterprise Recycling & Disposal Facility on October 5, 2001. On January 25, 2002, the permit was transferred from Sid Larkin & Son, Inc. to Angelo's Aggregate Materials, Ltd.

Excavation of Cells 1, 15, and 16 began in March 2003. Limestone fragments were encountered in Cell 1 during excavation on June 2, 2003. The Department was notified, and it was agreed that excavation would continue until base grades were achieved and the floor of the cell could be evaluated by HAI's Geologists. Excessive rainfall during June and July hindered the construction, making it difficult for the heavy equipment to maneuver throughout the cells. Initial excavation of Cells 1, 15, and 16 was completed on July 14, 2003.

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After examination of the cell floor at the appropriate grades, it was the opinion of HAI's Geologists that the limestone areas encountered were lenses of limestone fragments embedded in a matrix of clay and sandy-clay, and were not part of the Floridan aquifer. Solid stem auger borings were later completed to illustrate the presence of confining material below the limestone lenses. Angelo's, HAI, and the Department met at the DEP Southwest District office on August 19, 2003 to discuss the requirements for the cell certification package. A Plan of Action for Cell Certification (CQA Plan) was submitted to the Department on August 21, 2003, describing the additional testing to be completed to certify the landfill for operation.

The CQA Plan, approved by the Department, included additional permeability and sieve testing in Cells 1, 15, and 16, and included a map that identified the areas in these cells intended for further investigation. Also discussed were the procedures to be followed for excavation of the limestone lenses and patching with designated confining material. The following documents the completion of this plan to allow cell certification.

CELL 1 CQA TESTING

Specific Condition 9.c. of the construction permit, in part, states "The maximum hydraulic conductivity below or as part of each cell floor shall be less than 1×10^{-6} cm/sec in a continuous layer of at least 36 inches in thickness, unless otherwise approved in writing by the Department."

In order to revise the initial Confining Layer Contour Map and further illustrate the existence of the consistent confining layer in Cell 1, additional deeper borings were required to reach and sample the layer. The confining unit may be at the cell base, under the cell base, or a combination of both, as long as it is at least 36-inches thick and continuous with a maximum permeability of 1×10^{-6} cm/s. To complete the CQA Plan, three (3) additional standard penetration test borings (SPT) and six (6) additional solid stem auger borings were completed in Cell 1 with field work beginning on Friday, August 22, 2003 and continuing until September 4, 2003.

A total of three (3) SPT borings, 24 solid stem auger borings, and 47 hand auger borings were completed in Cell 1 to confirm the existence of the confining unit. All boring locations used to verify the confining unit are shown on Figure 1 in Appendix A. HAI's Geologist and Technician were on-site to supervise the field work, log the borings, and determine appropriate intervals for additional permeability and sieve testing.

A total of eight (8) permeability samples were collected in accordance with ASTM D1587, Standard Practice for Thin-Walled Tube Geotechnical Sampling of Soils. Permeability testing for Cell 1 was completed by Universal Engineering Sciences (UES) laboratory in Orlando, in accordance with ASTM D5084-00e1, Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter. ("00" indicates that the standard was updated in 2000, "e1" indicates an editorial change was made.)

Permeability testing was required for each differing soil type used as a confining layer. All other boring locations required sieve testing in the confining material. A correlation between permeability, percent

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finer (percent passing No. 200 sieve) and percent gravel (percent retained on No. 10 sieve) was to be determined from the permeability test results. The percent gravel was measured in the initial set of tests (ST-1 to ST-8). The percent gravel in the samples was generally negligible, with the exception of ST-6. This sample contained gravel as high as 28 %, however, the permeability of the sample was 3.6×10^{-8} cm/s with 46.1 % passing the No. 200 sieve. Therefore, a correlation between permeability and percent fines was used to further classify the soils into categories and to confirm which materials are adequate for the confining unit. Based on this correlation, a sample with at least 31 % passing the No. 200 sieve was considered acceptable as confining material. The analytical results for the soil testing and the permeability correlation are included in Appendix B.

Seven (7) field units were classified from the soil samples obtained at the site. Sandy-clay (#1), silty-clay (#2), clay (#3), and clayey-sand (#4) soils were considered acceptable confining materials, based on previous permeability tests and sieve analyses. Silty-sand (#5), Limestone Marl (#6), and Limestone (#7) were determined to be an unacceptable material for the confining layer. Using these field units, cross-sections were developed to best depict the extent of the confining layer across the site. Acceptable materials were documented throughout Cells 1, 15, and 16.

The Confining Layer Contour Map for Cell 1 (Figure 38) depicting the top and thickness of the confining layer is provided in Appendix C. Geologic cross-sections, stratigraphic columns, and boring logs are also included in Appendix C.

CELL 1 LIMESTONE LENSE EXCAVATION AND TIE-IN CONSTRUCTION

Over-Excavation

Initial over-excavation of the limestone containing areas at the base of Cell 1 was completed on August 1, 2003, prior to the Department's site visit. Observation of these excavated areas by HAI's Geologist indicated that most of the locations are surrounded by sufficient sandy-clays to perform the tie-ins. Even though previous solid stem auger borings indicated the presence of clay or sandy-clay under the sandy and limestone fragment areas, additional sandy-clay to clay with a maximum permeability of 1×10^{-6} cm/s was compacted over these areas and tied-in to the surrounding clay near the cell base. We believe the over-excavation of these areas and replacement with clay is providing additional protection to the groundwater, above the requirements of the facility construction permit. Any of the over-excavated limestone containing areas that were not completely surrounded by three feet of sandy-clay or clay were excavated further until competent material to construct the tie-ins was found.

The Department was notified at least 24 hours prior to the initiation of the over-excavation, which began on September 12, 2003. The initial Confining Layer Contour Map was to be used as a guide for the over-excavating; however, visual observation of the excavation areas overruled the map where necessary. Some of the original excavation areas were merged for a total of 12 areas. Prior to the initiation of the tie-in construction, the horizontal extent of the over-excavated areas was resurveyed. To assist the contractor with soil calculations, the edges of the pits were "squared-off" and the areas were further merged. This survey information is provided in Appendix D, Sheet 2 of 2. As requested, new corner posts were

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installed and surveyed to mark the area of Cell 1 to be certified and approved for disposal operations. A benchmark has also been installed and surveyed in Cell 1. The over-excavation was completed on September 15, 2003.

Confining Layer Tie-In Construction

Construction of the confining layer tie-ins was completed on September 17-18, 2003. A representative of HAI was on-site to photograph and document all work performed at the site. The contractor used a dozer to slope the sides of the excavations and any other locations in need of confining layer tie-ins to approximately 3H:1V slopes all the way around. Dozer tracks were visible in the side slopes and provided a rough surface for the tie-ins.

The material used for construction of the tie-ins was obtained from an on-site stockpile of clay material excavated from Cells 1, 15, and 16. Proctor test results and permeability results for the stockpiled material used for the tie-ins are provided in Appendix E.

The designated clay material was placed in three lifts, at least 12-inches in thickness, and compacted by multiple passes with a 40,000 lb, D-6 Dozer. The dozer compacted the material in the bottom of the excavation and up the side slopes into the dozer track marks. After each lift was compacted with the dozer, a 12-ton, 84-inch vibratory sheeps-foot roller was used to roll the material. HAI's representative logged the daily activities, including the tie-in locations, thickness of each compacted lift, verification of the compaction and moisture content testing, verification of equipment used for compaction, and verification of dozer tracks at the tie-in surfaces (no smooth surfaces). HAI's field logs and photographs documenting the field work are provided in Appendix F.

Field CQA Testing

It was brought to HAI's attention by the testing laboratory, Universal Engineering Sciences, that the initial specification recommendation by the Department for in-place density testing of the tie-in lifts (ASTM specification D3017-96, Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)) was not an appropriate test method. The manufacturer of the nuclear density testing device does not recommend use of the equipment on clay materials, as it has been known to give inaccurate results. As recommended by the laboratory, a Speedy Moisture Content device was used, in accordance with ASTM D2937-00e1, Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method, to test each compacted lift to ensure the proper density and moisture content was achieved.

To be acceptable, HAI required the compaction to achieve 95% of the maximum density, as evaluated by the laboratory. The optimum moisture content for the material to achieve acceptable compaction was 14.1%. Field testing results for percent maximum density ranged from 94.5% to 97.8% with moisture content ranging from 13.2% to 14.8%. These results meet the CQA Plan specifications and are acceptable to HAI; therefore, no rework was required for any of the lifts. The results of the density and moisture content testing are provided in Appendix G.

Shelby tube samples were collected for laboratory confirmation testing of each lift in the first tie-in area (Pit 1, the excavated area in the southeast portion of Cell 1). This location was used as a "test area" to verify that the in-field testing is adequate. During a telephone conversation on August 5, 2003, HAI and the Department agreed that construction of the tie-in lifts should not wait for the permeability test results, since the results were expected to be favorable. Laboratory testing indicated that the permeability values in the test area were acceptable and above the criteria required by the facility construction permit. The laboratory results are provided in Appendix H. A summary of the permeability values for the three tests is as follows:

Cell 1 "Test Area"	Permeability (cm/s)
Lift 1	8.2×10^{-8}
Lift 2	1.8×10^{-8}
Lift 3	4.6×10^{-8}

After the tie-in construction was completed, Cell 1 was regraded to ensure stormwater flow towards the temporary pond.

Cell 1 As-Builts

As-built survey data to confirm the grades in Cell 1 is provided in Appendix D, Sheet 1 of 2. The survey shows that the cell grades are in general compliance with the requirements of the approved excavation plan, as required by the specific conditions of the facility construction permit.

Deviations to the original approved plans for Cell 1 are indicated in the as-built survey. An overall Site Plan, including the as-built survey data, is provided in Appendix D, Sheet 1 of 1. The 50-foot overcut and associated berm and transport swale was not constructed as planned. A berm has been constructed near the western slope of Cell 1, and an open channel slopes towards the temporary pond. HAI has confirmed that the open channel is not currently adequate to transport the stormwater runoff from west of the slope to the temporary pond. Therefore, a proper swale will be designed and provided to Angelo's for construction, prior to the final Department inspection.

The interior side slopes of Cell 1 were constructed steeper than shown on the approved excavation plan. All side slopes were to be constructed to 6H:1V until immediately prior to waste placement against the slopes. At this point, the slopes were to be cut back to 2H:1V. The south and west side slopes of the cell are approximately 3H:1V, and the east slope is approximately 4H:1V. These steeper slopes will have a higher potential for erosion, so Angelo's will implement the erosion controls in the approved plans on an as needed basis, rather than when the 2H:1V slopes are excavated.

The north-central and northeastern boundary of Cell 1 was excavated beyond the boundary indicated on the excavation plans, into a portion of the area designated for construction of Pond 2. Clean soil will need to be placed and compacted into the eastern slope prior to Pond 2 construction; otherwise the pond may need to be redesigned in the remaining setback area to accommodate the required stormwater volume.

TEMPORARY POND AREA

Although certification of Cells 15 and 16 was not required by the facility construction permit, at the request of the Department, HAI included certification testing of the confining unit in the temporary pond in the Plan of Action for Cell Certification.

In the areas of Cells 14, 15, and 16, borings during permitting, such as B-4, B-5, B-8, DCL01-8, DCL01-12, DCL01-13, and DCL01-14, encountered a sandy-clay within approximately 10 to 30 feet of the surface, or between 80 feet NGVD to 38 feet, NGVD. HAI field observations during the excavation of the temporary pond confirmed that all of the floor of Cell 15 and most of Cell 16 contain a sandy-clay. Photographs of the temporary pond construction were provided to the Department in Cell 1 Construction Progress Report #4, Appendix F, dated August 5, 2003.

In order to characterize the confining unit in the temporary pond, 10 SPT borings and 13 solid stem auger borings were completed in Cells 15 and 16, as shown on the map in Appendix A. Permeability testing for Cells 15 and 16 was completed by UES and Ardaman & Associates, Inc. (Ardaman) laboratories in Orlando, in accordance with ASTM D5084-00e1, Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter. The correlation values determined for Cell 1 were applied to the sieve analyses for the auger borings completed in the temporary pond to determine appropriate confining material. Solid stem auger borings were completed as necessary around the permeability test locations for sieve testing to prove that the confining unit is consistent.

Cell 15

As shown on the Confining Layer Contour Map for the temporary pond area, the continuous confining unit extends from the north end of Cell 1 through Cell 16. This map is provided as Figure 39 in Appendix C. Based on visual observation of Cell 15 during construction and the results of the permeability and sieve testing in that cell, the confining unit in this cell is consistent and meets the requirements of the facility construction permit. Therefore, no additional quality assurance testing or construction will be required for certification of the confining unit in Cell 15. When the cell is needed for waste disposal, the base of the cell floor will be raised to approximately 80 feet, NGVD, with either clean debris or clean soil, and will be further certified for waste acceptance at that time.

Cell 16

Due to a conflict of a preliminary correlation between permeability and percent fines with the actual permeability values obtained from test locations ST-13, ST-14, ST-16, and ST-17 in Cell 16, and ST-21 in Cell 14, tested by Ardaman (considered as outliers), some of the remaining intact Shelby tube samples were re-evaluated by UES. Based on these confirmatory tests, it is apparent that the confining unit in Cell 16 meets the permit criteria for maximum permeability of less than 1×10^{-6} cm/s. Therefore, no additional quality assurance testing or construction will be required for certification of the confining unit in Cell 16. When the cell is needed for waste disposal, the base of the cell floor will be raised to approximately 80 feet, NGVD, with either clean debris or clean soil, and will be further certified for waste acceptance at that time.

Cell 14

While collecting quality assurance test samples from Cells 15 and 16, one permeability sample was collected from Cell 14 at a depth of 32 to 34 feet below land surface, or below the approved temporary pond base elevation of 75 feet, NGVD. The results of the laboratory testing indicate a permeability of 7.5×10^{-7} cm/s for that sample. After construction of Cell 14 is completed, HAI will determine an appropriate number of additional quality assurance tests for cell certification based on construction observation and the results of testing in Cells 15 and 16.

Since the current temporary pond volume has been determined to be adequate to contain the appropriate stormwater runoff volume, Cell 14 will not be constructed at this time. A permit modification is under review by the Department's stormwater section. Once approval of the modification is issued, a stormwater construction certification will be submitted for Pond 1 and the temporary pond.

WATER LEVELS

Water levels in all monitor wells and piezometers have been measured approximately weekly since June 30, 2003, with reports submitted to the Department. A table, including all measurements is provided in Appendix I. The water levels have generally risen over the past months. The water levels in the wells are expected to drop once the rainy season ends. A location map for the monitor wells, piezometers, and gas probes has been previously submitted to the Department with the monitor well completion reports.

STORMWATER FACILITIES

As previously described, a stormwater permit modification is currently under review for changes to the temporary pond and Pond 1. Once the permit modification is issued, a stormwater construction certification will be submitted to the Department for approval from the stormwater section. A copy of the certification and approval will be provided to the solid waste section for reference.

Temporary Pond

Ditches have been recently constructed north to south near the center of the site, and west to east across the northeastern portion of the site in order to divert stormwater to an existing borrow pit in the north-central portion of the site. These ditches have reduced the quantity of stormwater flowing to the temporary pond, and therefore, will allow for construction of the western leg of the temporary pond (Cell 14) to be postponed until additional stormwater retention is required. A stormwater permit modification is currently under review, as described above.

Pond 1

Pond 1 was modified to accept some drainage from Enterprise Road. This modification was included in the above referenced stormwater permit modification.

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Pond 2

Pond 2 must be constructed and certified prior to filling Cell 1 above natural grade. It is recommended that Pond 2 be excavated concurrently with Cell 2. This pond may need to be redesigned as described previously.

ANCILLARY FACILITIES

In addition to the landfill and temporary pond, additional facilities are required for operation of the landfill. An asphalt driveway has been constructed at the facility entrance. A scalehouse and scales have been located at the entrance. Revised entrance plan details are provided in Appendix D, Sheet PP-1. The entrance facilities have been located in general accordance with the revised plan. Vegetated berms have been constructed to create a visual barrier from Enterprise and Auton Roads.

The six (6) foot chain link fence, 12-foot compacted soil perimeter road, entrance gate, "No Trespassing" signs, entrance sign, maintenance area, and placement of roll-off containers are not yet in-place. Angelo's intends to complete these items in the next two weeks. Once completed, a revised as-built Site Plan will be submitted to the Department.

CERTIFICATION

Based on the information obtained during the excavation activities and quality assurance testing, HAI is requesting the Department's approval for: 1) Certification of the continuous confining unit for Cells 1, 15, and 16; and 2) Certification of construction completion and approval for waste acceptance for Cell 1. Certification for waste acceptance in Cells 15 and 16 will be requested at an appropriate time in the future, prior to waste disposal in those cells.

FDEP Form 62-701.900(2), Certification of Construction Completion of a Solid Waste Management Facility, is attached along with a summary of plan deviations.

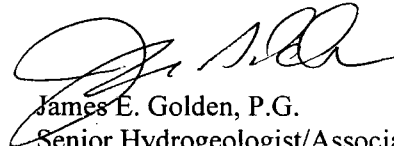
HAI has informed Angelo's that if the Department approves the continuous confining layer for Cells 1, 15, and 16, along with the certification for waste acceptance for Cell 1, the facility will still not be approved for operation. HAI has explained that verification of the swale in Cell 1, fence, entrance gate, 12-foot compacted soil perimeter road, scalehouse, scales, maintenance/storage facility, signs, placement of roll-off containers, proof of employee training, and approved financial assurance are still required by the Department prior to operation. Verification of completeness of these items is intended to be submitted within the next 30 days.

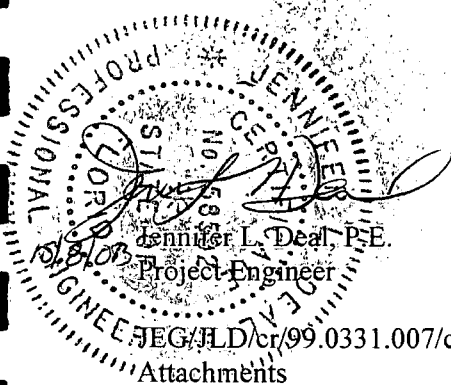
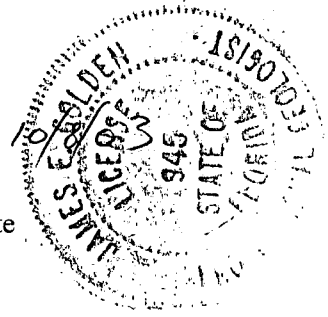
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We trust this submittal will satisfy the Department. Please call us if you have any questions.

Very truly yours,

Hartman & Associates, Inc.


James E. Golden, P.G.
Senior Hydrogeologist/Associate



JEG/JLD/cr/99.0331.007/corresp/Ford-Cert.jld
Attachments

cc: Dominic Iafrate, Angelo's
Craig Bryan, Angelo's
John Morris, P.G., FDEP
Susan Pelz, P.E., FDEP
File



Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994
DEP Application No. _____
(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-001-SC County: Pasco

Name of Project: Enterprise Recycling & Disposal Facility

Name of Owner: Angelo's Aggregate Materials, Ltd.

Name of Engineer: Hartman & Associates, Inc.

Type of Project: Confining layer certification for Cells 1, 15, and 16. Construction completion for Cell 1.

Cost: Estimate \$ 400,000 Actual \$ 450,000

Site Design: Quantity: 1500 cy/day ton/day Site Acreage: 6.08 for waste acceptance Acres

Deviations from Plans and Application Approved by DEP: Please see the attached summary.

Address and Telephone No. of Site: Enterprise Road, west of Auton Road, Dade City
813-477-2784

Name(s) of Site Supervisor: Craig Bryan

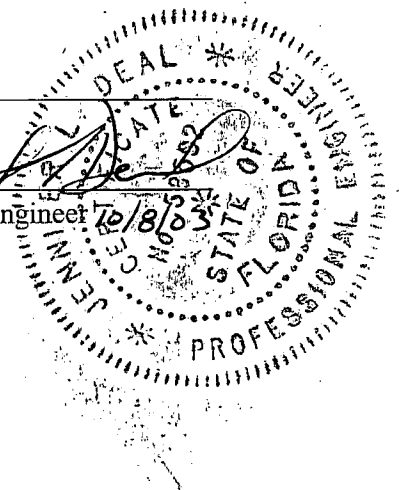
Date Site inspection is requested: By October 15, 2003

This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction

Permit No. 177982-001-SC :Dated: October 5, 2001

Date: 10/8/03

Signature of Professional Engineer [Signature]



**SUMMARY OF DEVIATIONS FROM FDEP APPROVED PLANS
ENTERPRISE RECYCLING & DISPOSAL FACILITY
DADE CITY, FLORIDA**

As-built survey data to confirm the grades in Cell 1 is provided in Appendix D. The survey shows that the cell grades are in substantial compliance with the requirements of the approved excavation plan, as required by the specific conditions of the facility construction permit.

Deviations to the original approved plans for Cell 1 are indicated in the as-built survey. The 50-foot overcut and associated berm and transport swale was not constructed as planned. A berm has been constructed near the western slope of Cell 1, and an open channel slopes towards the temporary pond. HAI has confirmed that the open channel is not adequate to transport the stormwater runoff from west of the slope to the temporary pond. A proper swale will be designed and provided to Angelo's for construction.

The interior side slopes of Cell 1 were constructed steeper than shown on the approved excavation plan. All side slopes were to be constructed to 6H:1V until immediately prior to waste placement against the slopes. At this point, the slopes were to be cut back to 2H:1V. The south and west side slopes of the cell are approximately 3H:1V, and the east slope is approximately 4H:1V. These steeper slopes will have a higher potential for erosion, so Angelo's must implement the erosion controls in the approved plans on an as needed basis, rather than when the 2H:1V slopes are excavated.

The north-central to northeastern boundary of Cell 1 was excavated beyond the boundary indicated on the excavation plans, into a portion of the area designated for construction of Pond 2. Clean soil will need to be placed and compacted into the eastern slope prior to pond construction. However, the newly placed soil may be inadequate for construction and the pond may need to be redesigned in the remaining setback area to accommodate the required stormwater volume. This determination will require a geotechnical evaluation prior to construction.

Ditches have been recently constructed north to south near the center of the site, and west to east across the northeastern portion of the site in order to divert stormwater to an existing borrow pit in the north-central portion of the site. These ditches have reduced the quantity of stormwater flowing to the temporary pond, and therefore, will allow for construction of the western leg of the temporary pond (Cell 14) to be postponed until additional stormwater retention is required. A stormwater permit modification is currently under review by the Department's stormwater section.

Pond 1 was modified to accept some drainage from Enterprise Road. This modification was included in the above referenced stormwater permit modification.

The location of the entrance, scalehouse, scales, and maintenance area have changed, as shown on the revised plan.

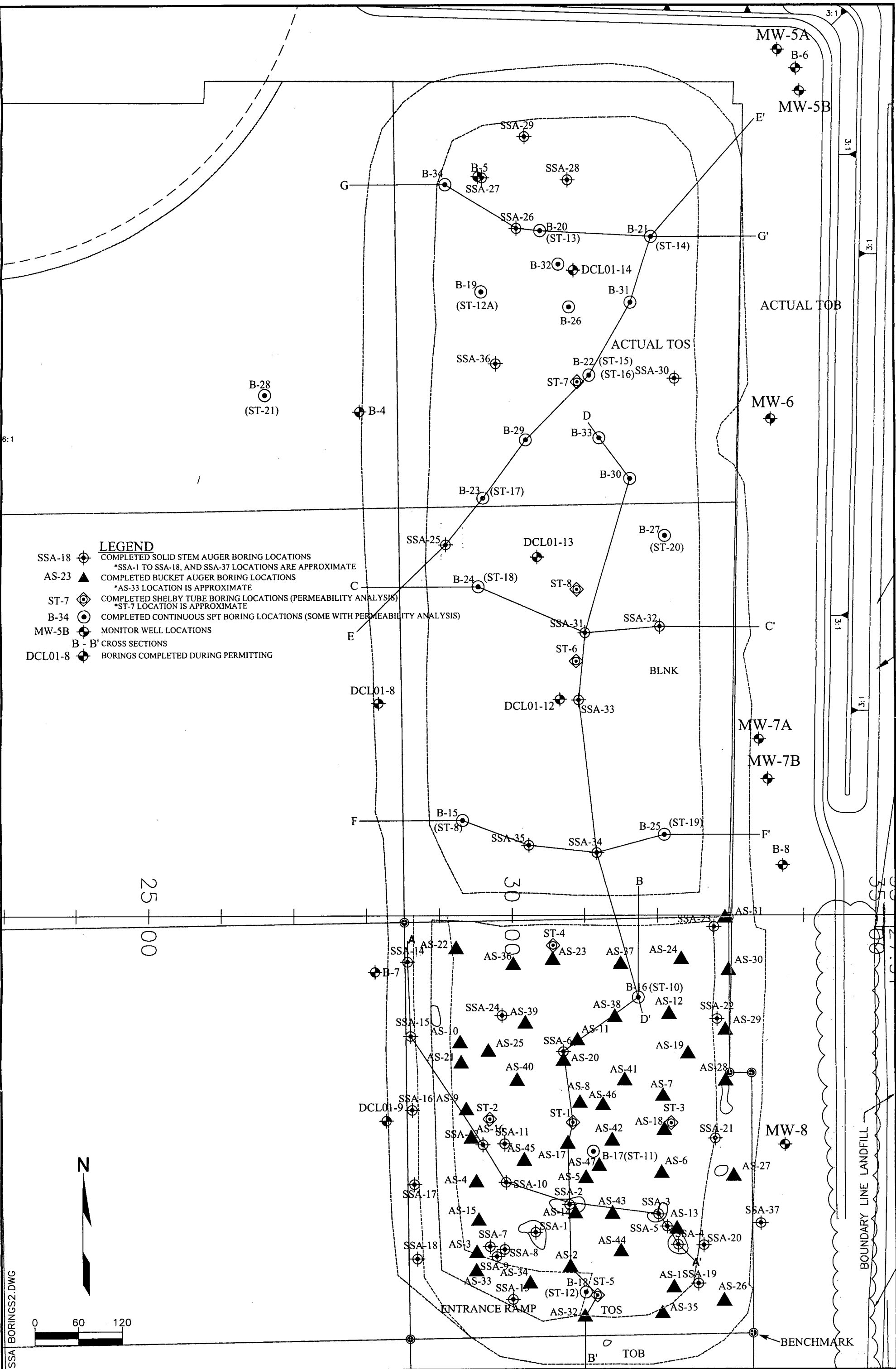
The six (6) foot chain link fence, 12-foot compacted soil perimeter road, entrance gate, "No Trespassing" signs, entrance sign, maintenance area, and placement of roll-off containers are still to be completed. Angelo's understands that the facility cannot be fully certified for operation until all of these items have been completed and certified by HAI and the Department.

APPENDICES

LIST OF APPENDICES

<u>Appendix No.</u>	<u>Title</u>
Appendix A	Map of Boring Locations
Appendix B	Permeability Results and Sieve Analyses (UES, Ardaman) Table of Permeability and Percent Fines Permeability Correlation
Appendix C	Confining Layer Contour Maps Cross-sections Stratigraphic Columns for SPT and Solid Stem Auger Boring Logs Hand Auger Boring Logs
Appendix D	As-Built Survey of Graded Cell 1 Survey of Over-Excavated Areas Revised Entrance Plan Overall Site Plan with As-Built Survey Data
Appendix E	Clay Material Stockpile Proctor Test and Permeability Test Results
Appendix F	Photographs of Tie-In Construction Field Notes
Appendix G	Field Compaction and Moisture Content Test Results
Appendix H	Laboratory Permeability Confirmation Test Results
Appendix I	Water Level Table

APPENDIX A



- LEGEND**
- SSA-18 COMPLETED SOLID STEM AUGER BORING LOCATIONS
*SSA-1 TO SSA-18, AND SSA-37 LOCATIONS ARE APPROXIMATE
 - AS-23 COMPLETED BUCKET AUGER BORING LOCATIONS
*AS-33 LOCATION IS APPROXIMATE
 - ST-7 COMPLETED SHELBY TUBE BORING LOCATIONS (PERMEABILITY ANALYSIS)
*ST-7 LOCATION IS APPROXIMATE
 - B-34 COMPLETED CONTINUOUS SPT BORING LOCATIONS (SOME WITH PERMEABILITY ANALYSIS)
 - MW-5B MONITOR WELL LOCATIONS
 - B - B' CROSS SECTIONS
 - DCL01-8 BORINGS COMPLETED DURING PERMITTING

SSA BORINGS2.DWG

FIGURE 1



HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
 TELEPHONE (407) 839-3955 - FAX (407) 839-3790

**BORING AND PERMEABILITY TEST LOCATIONS
 ENTERPRISE RECYCLING & DISPOSAL FACILITY
 DADE CITY, FLORIDA**

APPENDIX B

Manager: **MIGUEL GARCIA** Client: **HARTMAN & ASSOCIATES** Project Description: _____
 Location: **FL** _____
 Elevation Datum: _____

Borehole Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
AS-1 2.0				68.1	43.7				100.0	100.0	99.7	97.3	83.0
AS-10 2.0				16.4	17.5				100.0	100.0	97.4	82.8	41.5
AS-11 2.0				60.9	52.6				100.0	100.0	99.7	98.1	91.1
AS-12 2.0				52.6	35.9				100.0	100.0	99.7	96.1	74.1
AS-13 2.0				72.6	40.1				100.0	99.9	99.6	97.4	85.4
AS-14 2.0				49.3	24.8				94.6	92.0	89.7	86.2	67.8
AS-15 2.0				54.9	30.7				100.0	99.9	99.4	96.2	76.3
AS-16 2.0				62.7	32.2				99.8	99.7	99.4	97.2	82.0
AS-17 2.0				64.0	34.7				100.0	99.7	99.1	96.3	80.4
AS-18 2.0				48.9	27.5				100.0	100.0	99.8	95.8	75.4
AS-19 2.0				34.9	19.5				100.0	100.0	99.7	94.6	63.5
AS-2 2.0				56.5	38.1				100.0	99.9	99.4	96.1	75.9
AS-20 2.0				47.0	28.5				99.5	99.5	99.1	97.4	87.7
AS-21 2.0				57.1	28.9				100.0	99.9	99.4	95.4	75.5
AS-22 2.0				67.8	36.1				100.0	99.9	97.6	83.5	82.3
AS-23 2.0				53.9	32.6				100.0	99.9	99.2	95.5	75.9
AS-24 2.0				62.2	39.7				100.0	99.9	99.4	96.2	79.8
AS-25 2.0				79.8	43.4				99.9	99.9	99.7	97.4	87.2
AS-26 2.0				29.8	17.0				90.9	87.2	84.0	76.4	50.2

UNIVERSAL ENGINEERING SCIENCES	Summary of Material Properties	Space for logo (!fXXXX)
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Borehole Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
AS-27 2.0				25.0	17.2				99.2	98.9	96.7	84.5	47.9
AS-28 2.0				37.5	19.0				97.8	97.7	96.8	91.3	63.1
AS-29 2.0				47.2	23.1				99.7	99.4	99.1	95.5	70.1
AS-3 2.0				59.8	34.2				100.0	100.0	99.9	97.1	78.5
AS-3 4.0				56.6	43.0				100.0	100.0	99.9	96.9	76.8
AS-30 2.0				42.6	22.3				100.0	100.0	99.7	95.8	71.1
AS-31 2.0				25.2	10.0				100.0	100.0	95.4	81.6	39.2
AS-32 2.0				80.4	43.1				100.0	100.0	99.8	98.3	90.4
AS-33 2.0				55.8	29.2				99.5	99.5	97.6	94.9	77.6
AS-34 2.0				55.0	34.2				100.0	99.9	99.0	95.6	75.1
AS-35 2.0				74.3	40.3				100.0	100.0	100.0	98.4	87.5
AS-36 2.0				57.9	30.8				100.0	100.0	99.9	97.4	80.9
AS-37 2.0				45.8	28.9				100.0	99.8	98.1	95.6	82.7
AS-38 2.0				40.0	26.3				100.0	99.7	98.9	93.1	65.0
AS-39 2.0				54.6	34.4				100.0	100.0	99.7	97.4	82.7
AS-4 2.0				41.0	35.4				99.8	99.4	90.6	74.6	53.8
AS-40 2.0				53.2	29.6				100.0	100.0	99.8	94.9	73.3
AS-41 2.0				76.6	36.9				100.0	100.0	99.8	98.4	88.9
AS-42 2.0				15.8	16.2				100.0	100.0	95.8	77.5	28.6
AS-43 2.0				65.4	31.6				100.0	100.0	100.0	97.5	81.7
AS-44 2.0				33.5	18.9				99.9	97.3	86.8	81.6	56.4
AS-45 2.0				72.6	37.3				100.0	100.0	99.9	98.4	87.1

UNIVERSAL ENGINEERING SCIENCES	Summary of Material Properties	Space for logo (IfXXXX)
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Borehole Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
AS-46 2.0				52.0	20.0				100.0	99.8	98.9	94.2	82.8
AS-47 2.0				52.8	36.1				100.0	99.7	97.7	96.1	87.7
AS-5 2.0				52.5	30.5				100.0	99.9	99.2	98.0	92.2
AS-6 2.0				31.7	19.8				100.0	100.0	99.9	95.1	60.7
AS-7 2.0				56.7	34.3				99.7	99.6	99.3	96.6	78.0
AS-8 2.0				44.0	26.0				100.0	100.0	99.3	93.8	66.8
AS-9 2.0				60.7	36.8				100.0	100.0	99.7	96.6	78.9
PILE1 0.0				42.0	24.3				99.3	99.3	96.7	91.1	64.8
PILE2 0.0				38.8	26.8				89.9	89.1	86.7	80.2	57.4
SSA-10 4.0				53.2	32.5				97.8	92.1	83.7	79.9	71.8
SSA-11 6.0				61.5	30.3				99.5	98.1	95.9	92.9	82.0
SSA-11 9.0				57.5	35.3				99.8	98.8	95.5	93.2	86.4
SSA-11 11.0				47.8	28.5				95.8	93.7	90.5	87.0	72.5
SSA-11 14.0				42.4	36.9				76.4	73.1	68.0	64.9	59.6
SSA-12 6.0				44.8	20.9				100.0	99.4	98.9	94.4	67.5
SSA-13 24.0				21.0	18.3				99.8	99.8	94.5	78.4	36.3
SSA-14 24.0				36.9	24.3				98.3	97.2	95.3	92.2	81.1
SSA-14 29.0				27.7	35.6				81.5	74.0	67.6	62.5	48.7
SSA-15 24.0				42.3	28.5				100.0	100.0	99.5	96.7	83.0
SSA-16 20.0				48.9	37.0				100.0	100.0	99.7	96.0	71.2
SSA-16 24.0				57.6	25.6				100.0	100.0	99.5	96.4	76.6
SSA-17 24.0				16.1	26.0				100.0	99.8	97.5	84.7	46.1

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Summary of Material Properties

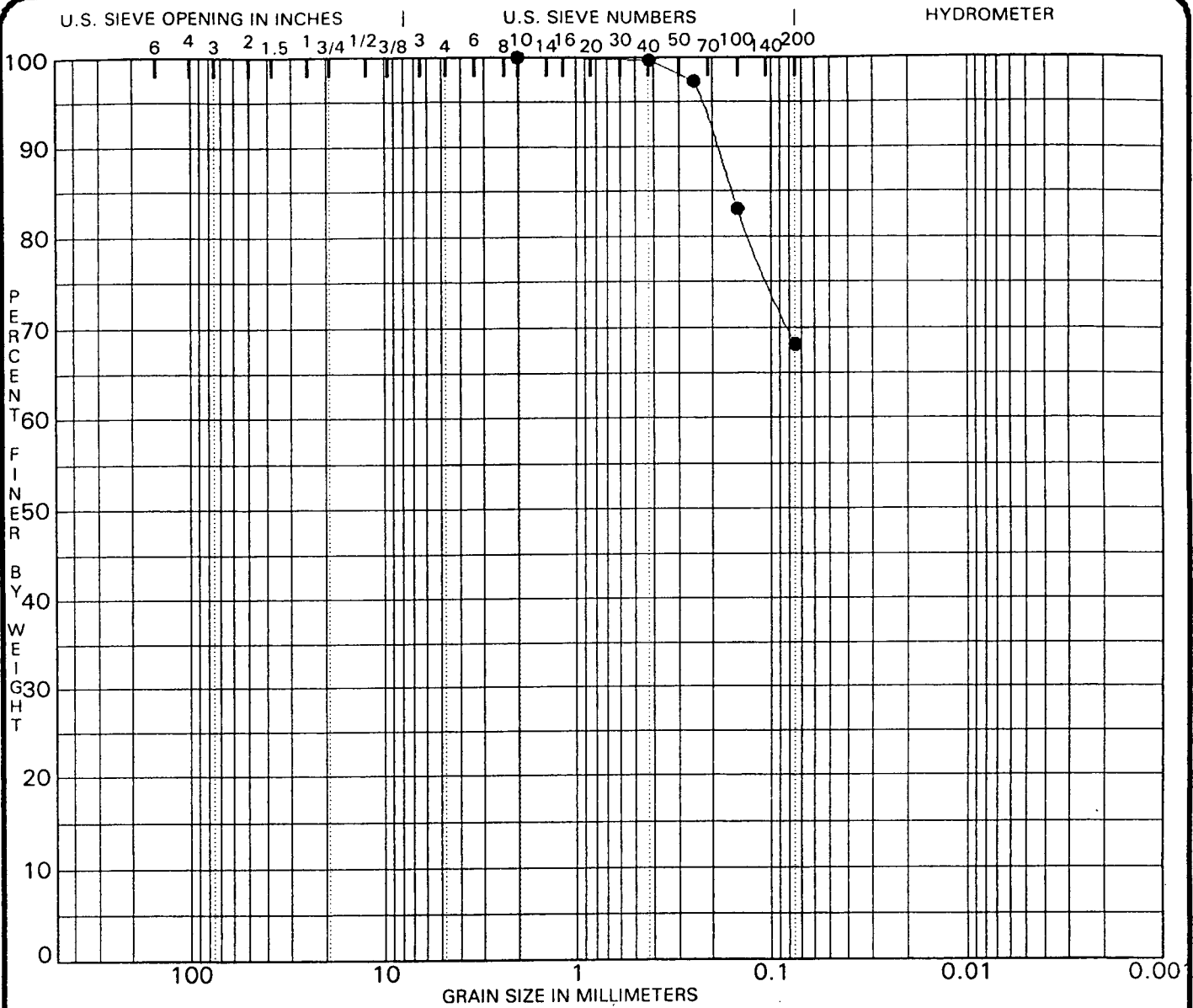
Space for logo (!fXXXX)

Borehole Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
SSA-17 29.0				25.3	27.0				99.1	98.5	95.6	83.8	49.4
SSA-18 29.0				63.0	26.6				100.0	100.0	99.9	97.4	80.6
SSA-4 7.0				58.6	34.3				99.7	98.7	97.2	95.0	83.8
SSA-5 5.0				41.9	26.4				99.2	97.1	87.5	86.2	57.4
SSA-6 6.0				43.6	33.8				99.5	98.1	95.5	93.3	85.6
SSA-7 6.0				48.7	25.6				100.0	99.5	97.1	95.7	90.8
SSA-8 8.0				47.0	40.2				98.5	97.2	95.4	93.5	81.6
SSA-9 4.0				51.9	41.8				99.8	99.5	98.6	94.8	73.3
ST-1 1.0				60.8	36.3				97.2	97.0	96.0	92.9	78.0

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Summary of Material Properties

Space for logo (IfXXXX)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

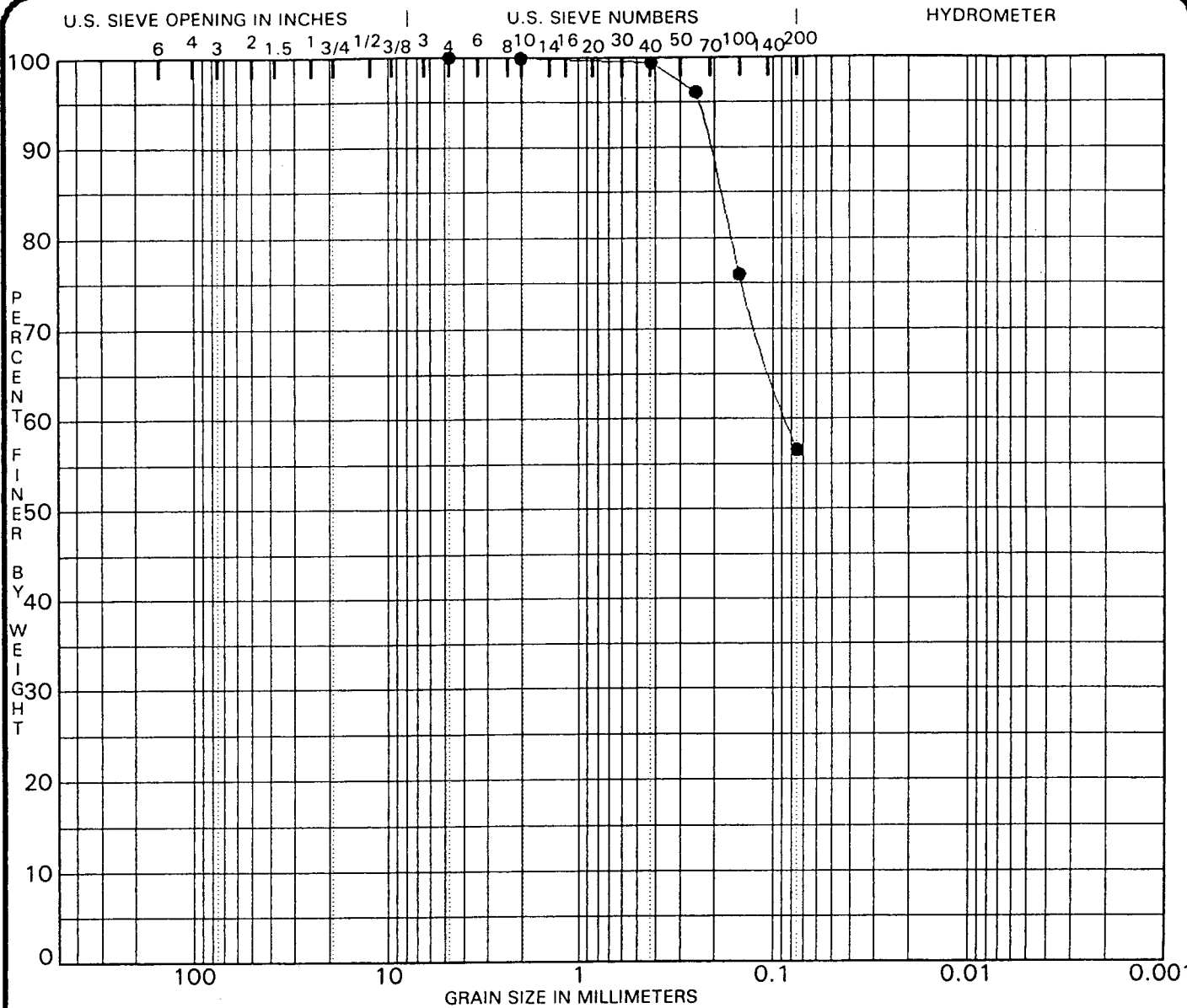
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-1 2.0		44					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-1 2.0	2.00				0.0	31.9	68.1	

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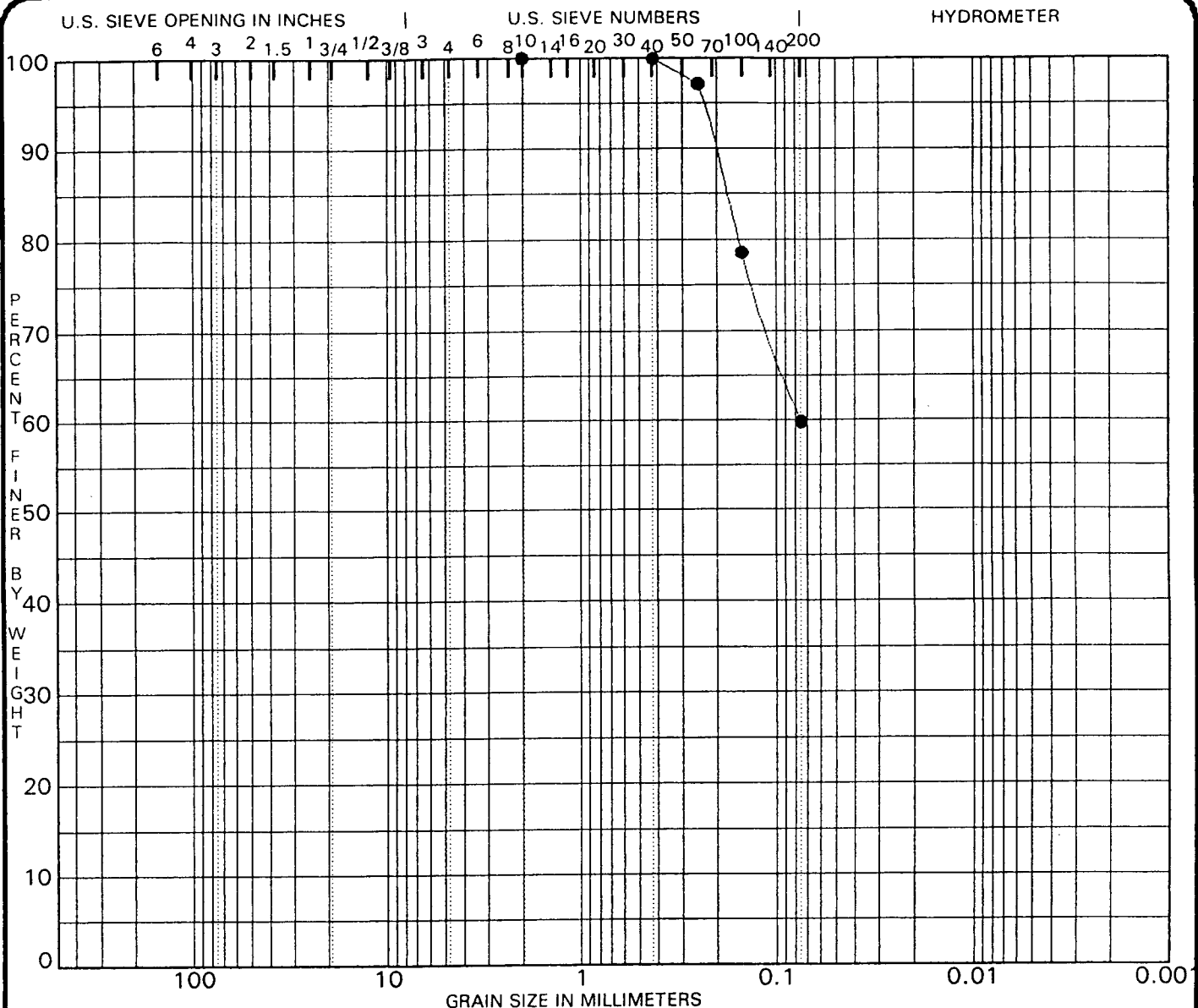
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-2 2.0		38					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-2 2.0	4.75	0.09			0.0	43.5	56.5	

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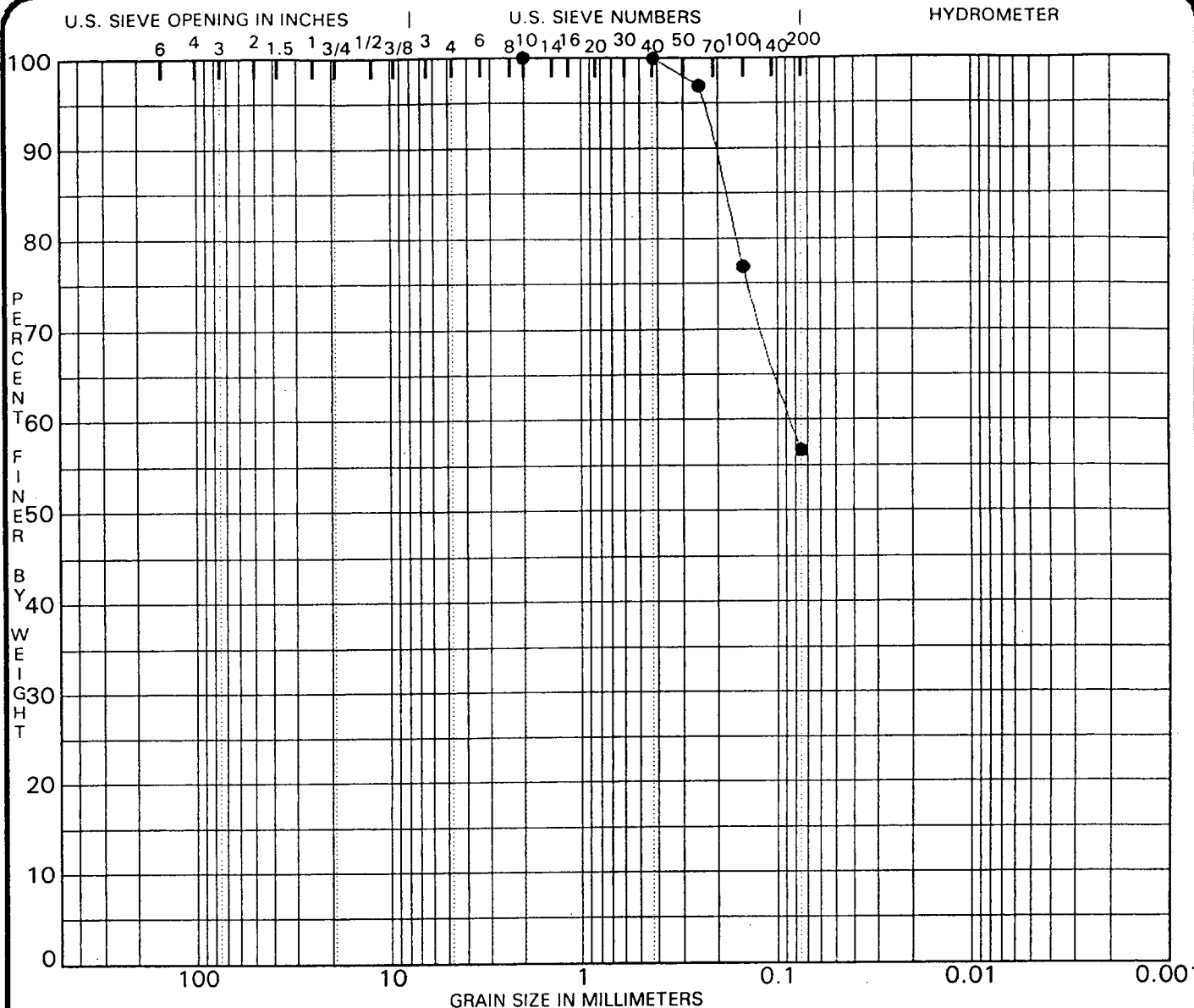
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-3 2.0		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-3 2.0	2.00	0.08			0.0	40.2	59.8	

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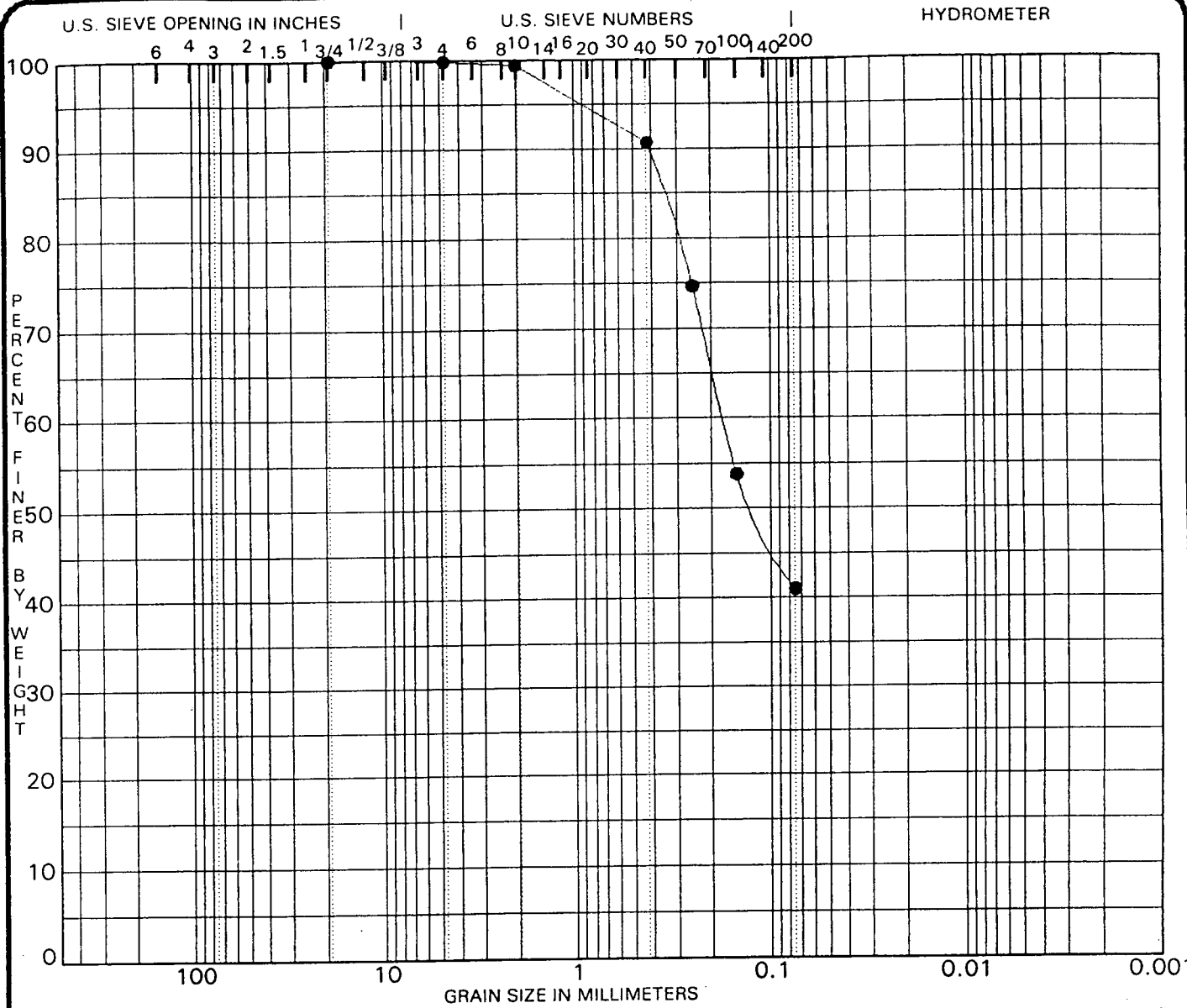
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-3 4.0		43					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-3 4.0	2.00	0.08			0.0	43.4	56.6	

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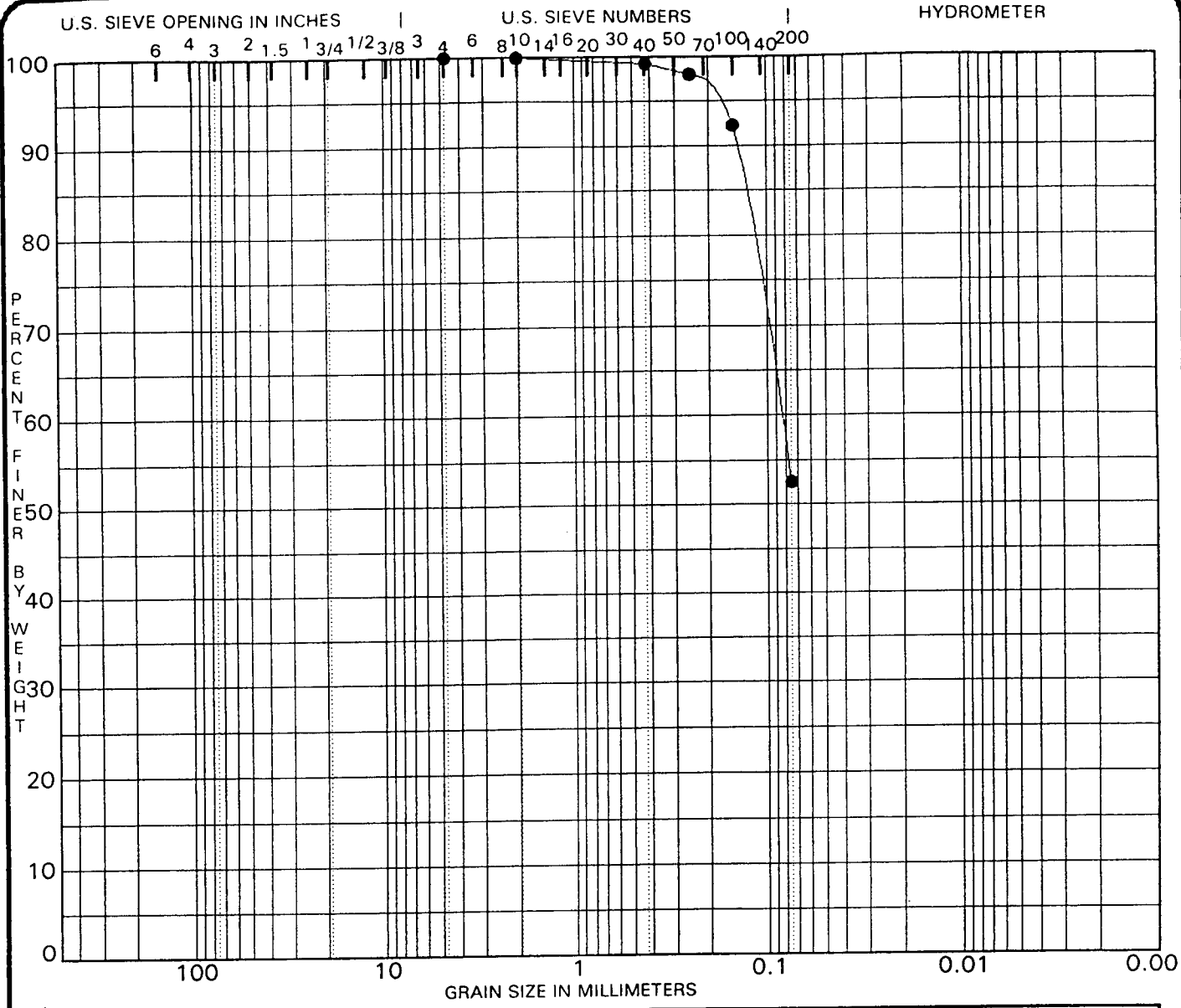
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-4 2.0		35					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-4 2.0	19.00	0.17			0.2	58.8	41.0	

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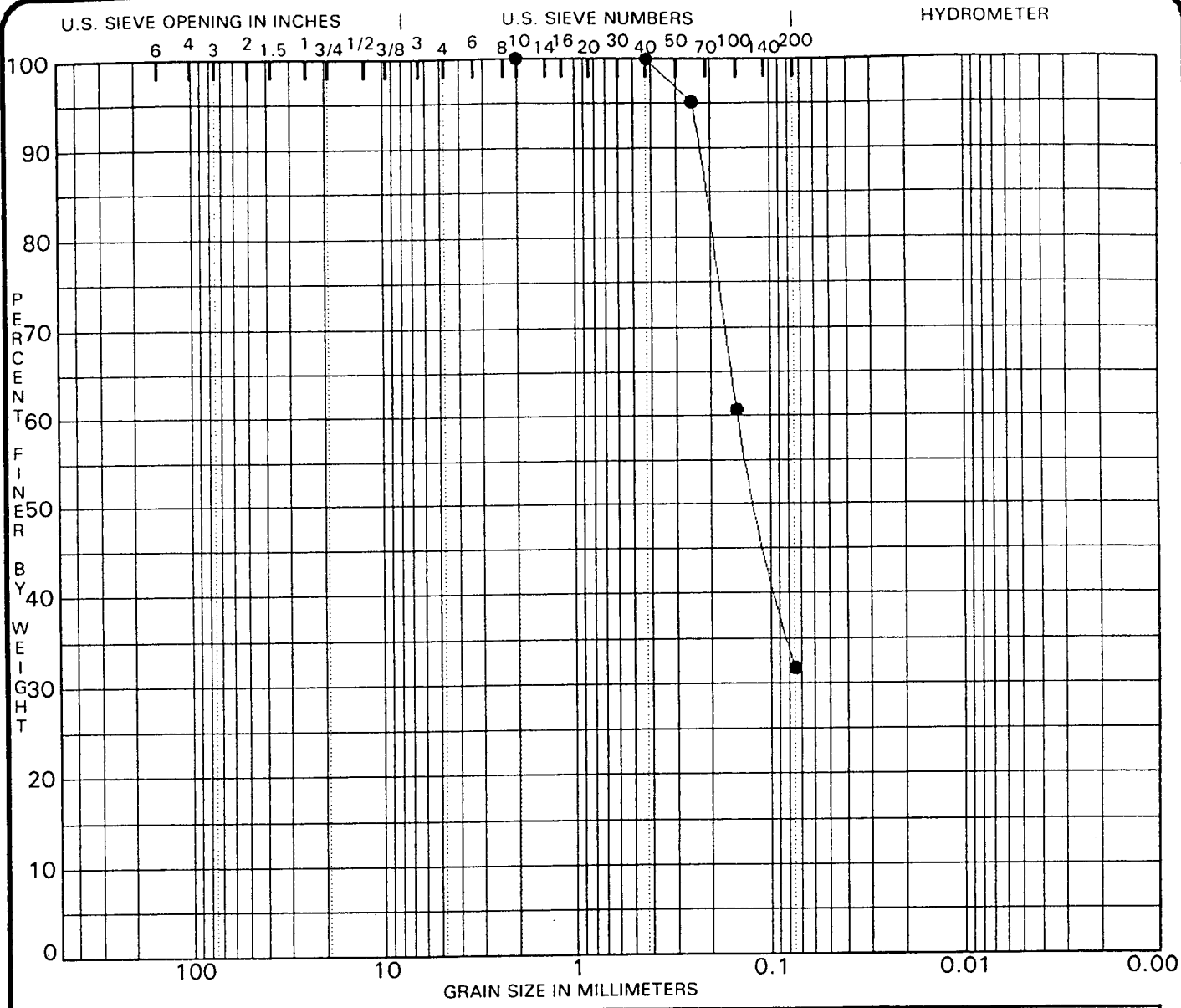
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
AS-5 2.0		30					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
AS-5 2.0	4.75	0.09			0.0	47.5	52.5	

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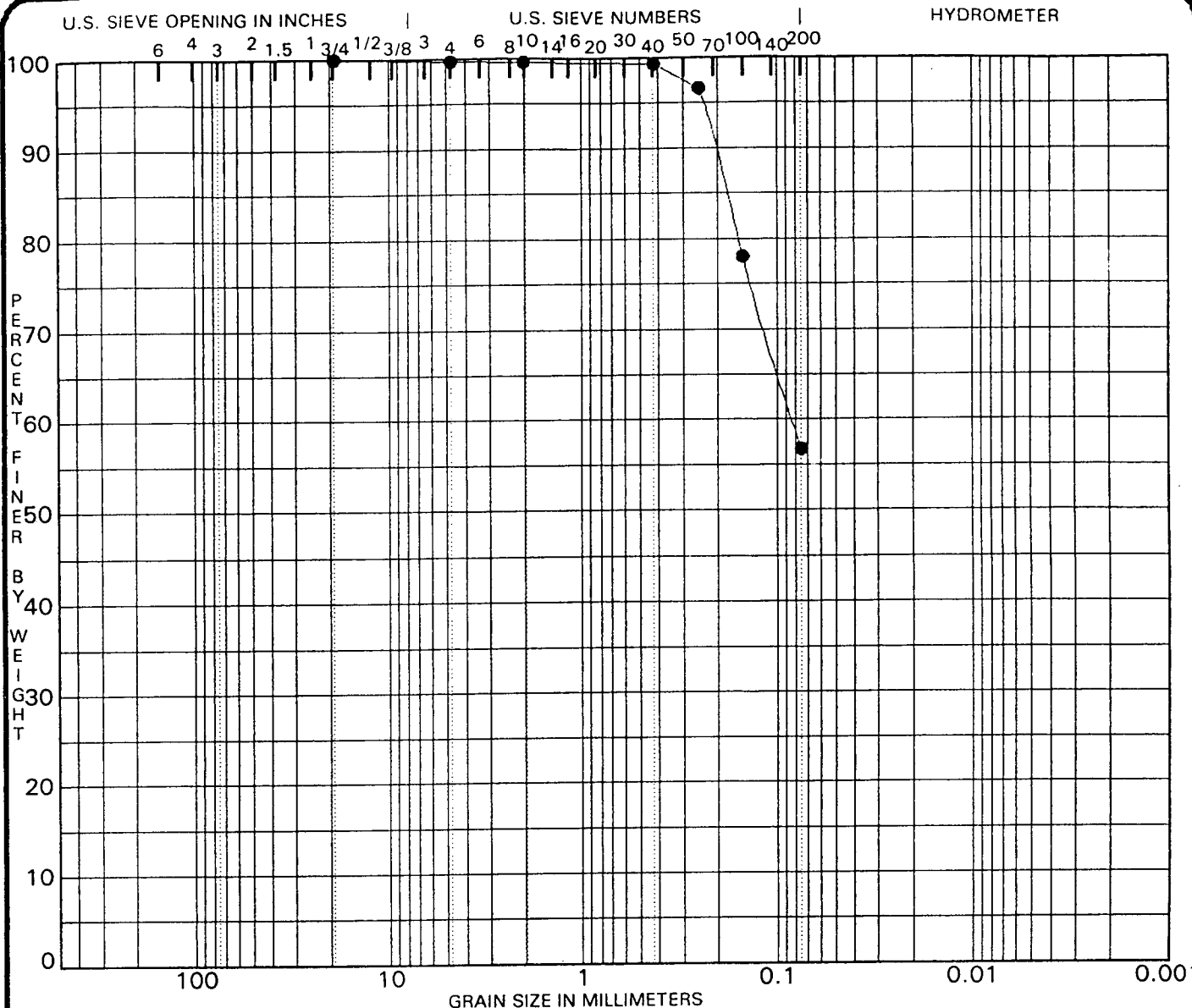
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-6 2.0		20					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-6 2.0	2.00	0.15			0.0	68.3	31.7	

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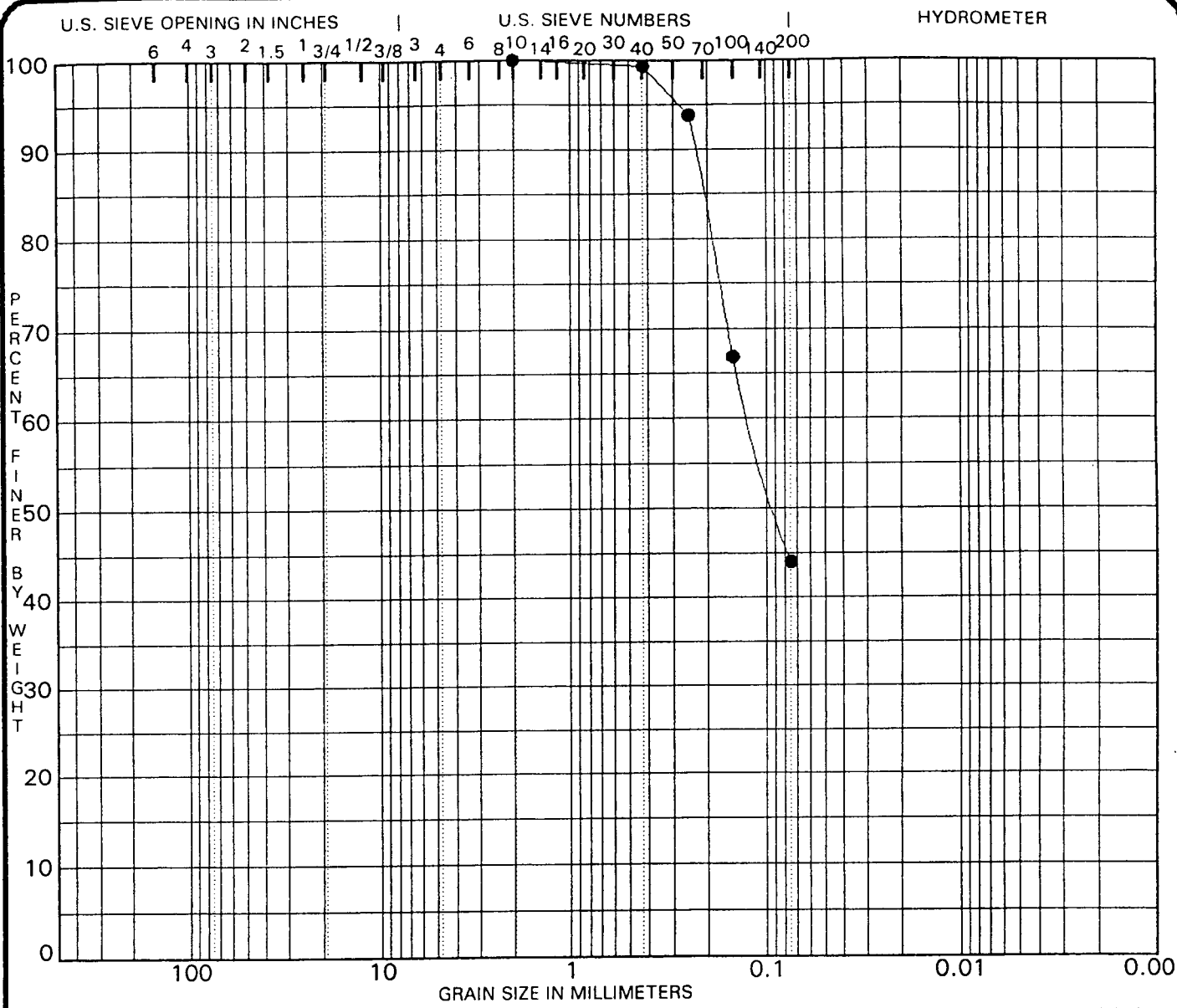
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-7 2.0		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-7 2.0	19.00	0.08			0.3	43.0	56.7	

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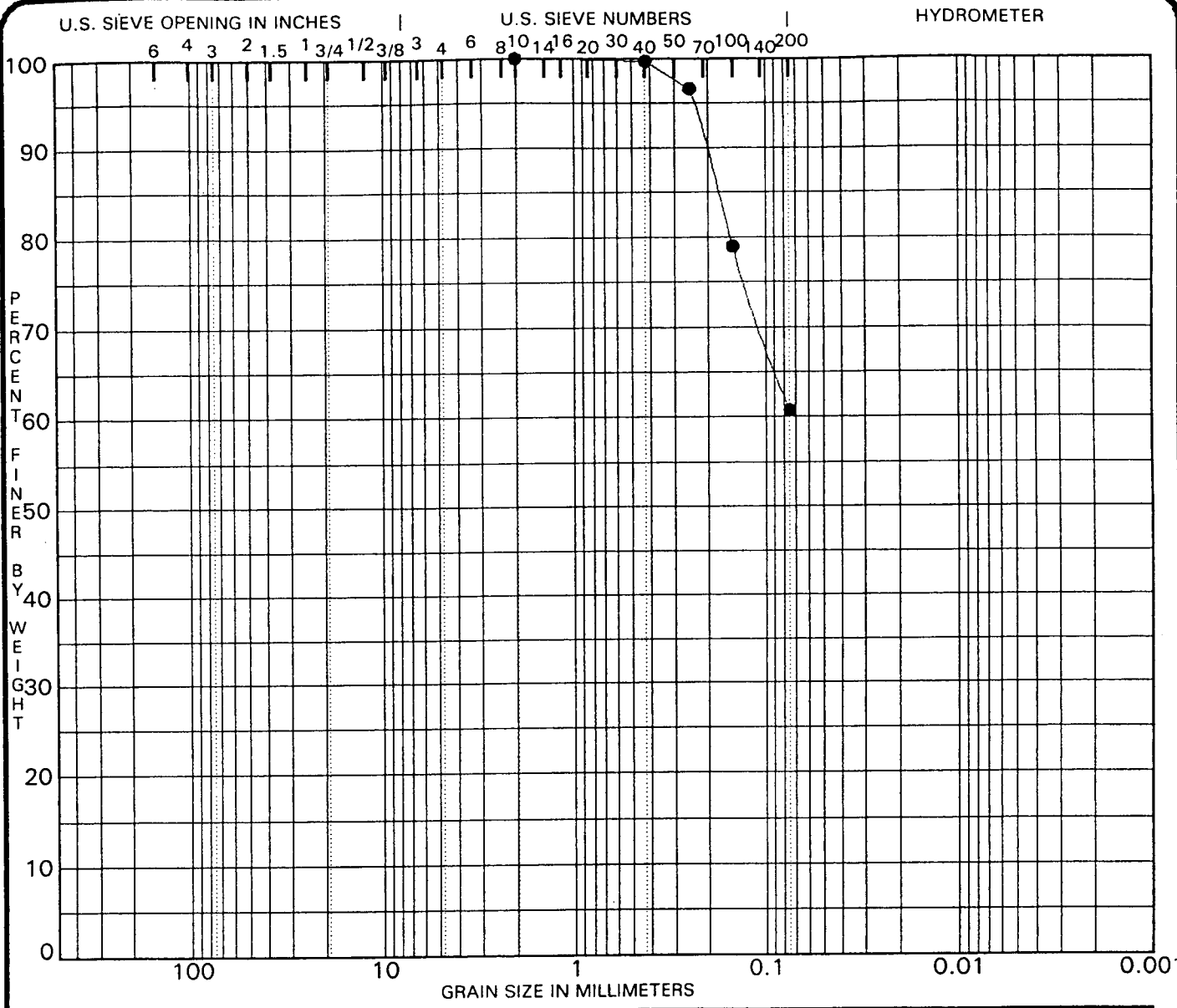
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
AS-8 2.0		26					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
AS-8 2.0	2.00	0.12			0.0	56.0	44.0	

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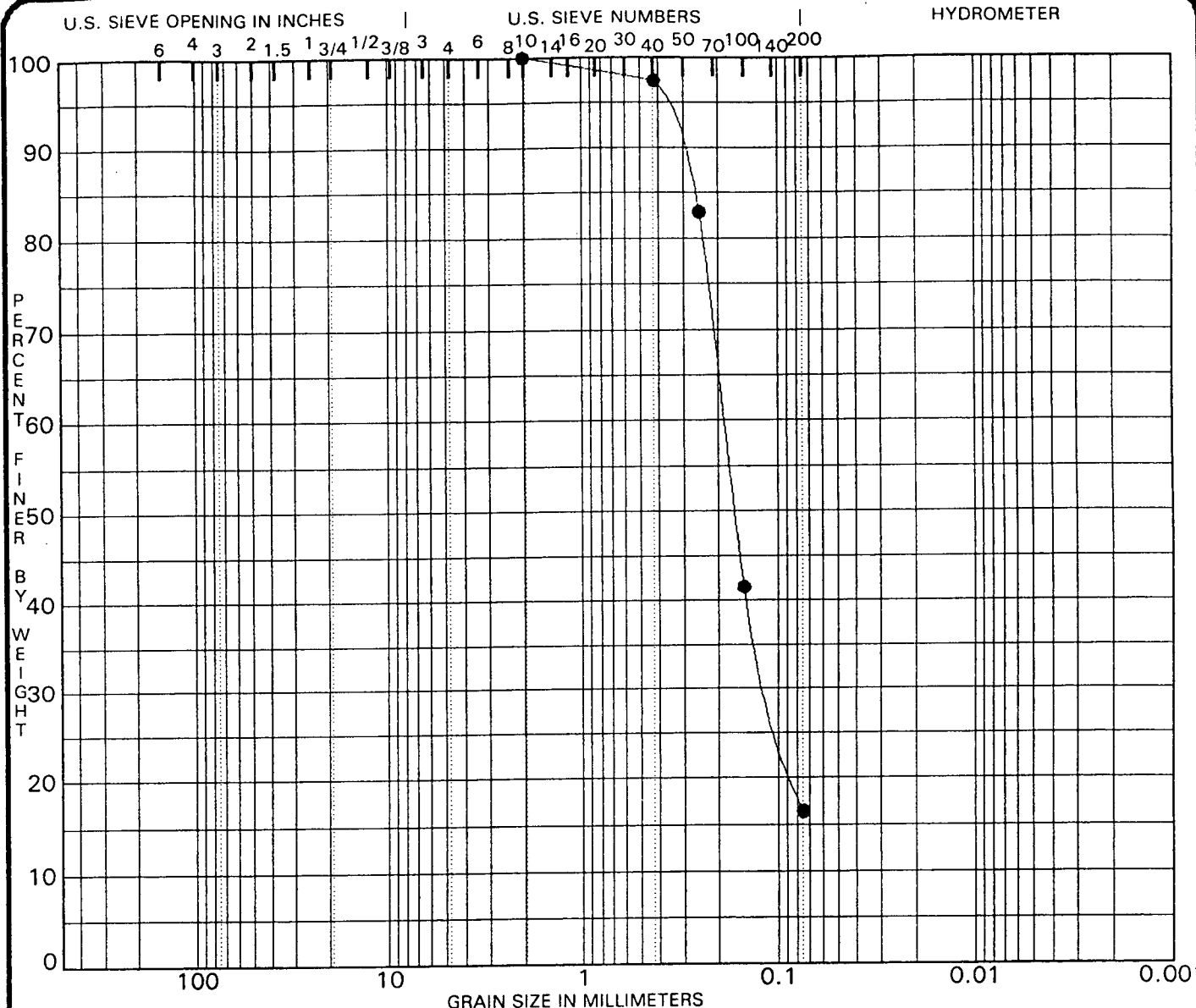
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
AS-9 2.0		37					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
AS-9 2.0	2.00				0.0	39.3	60.7	

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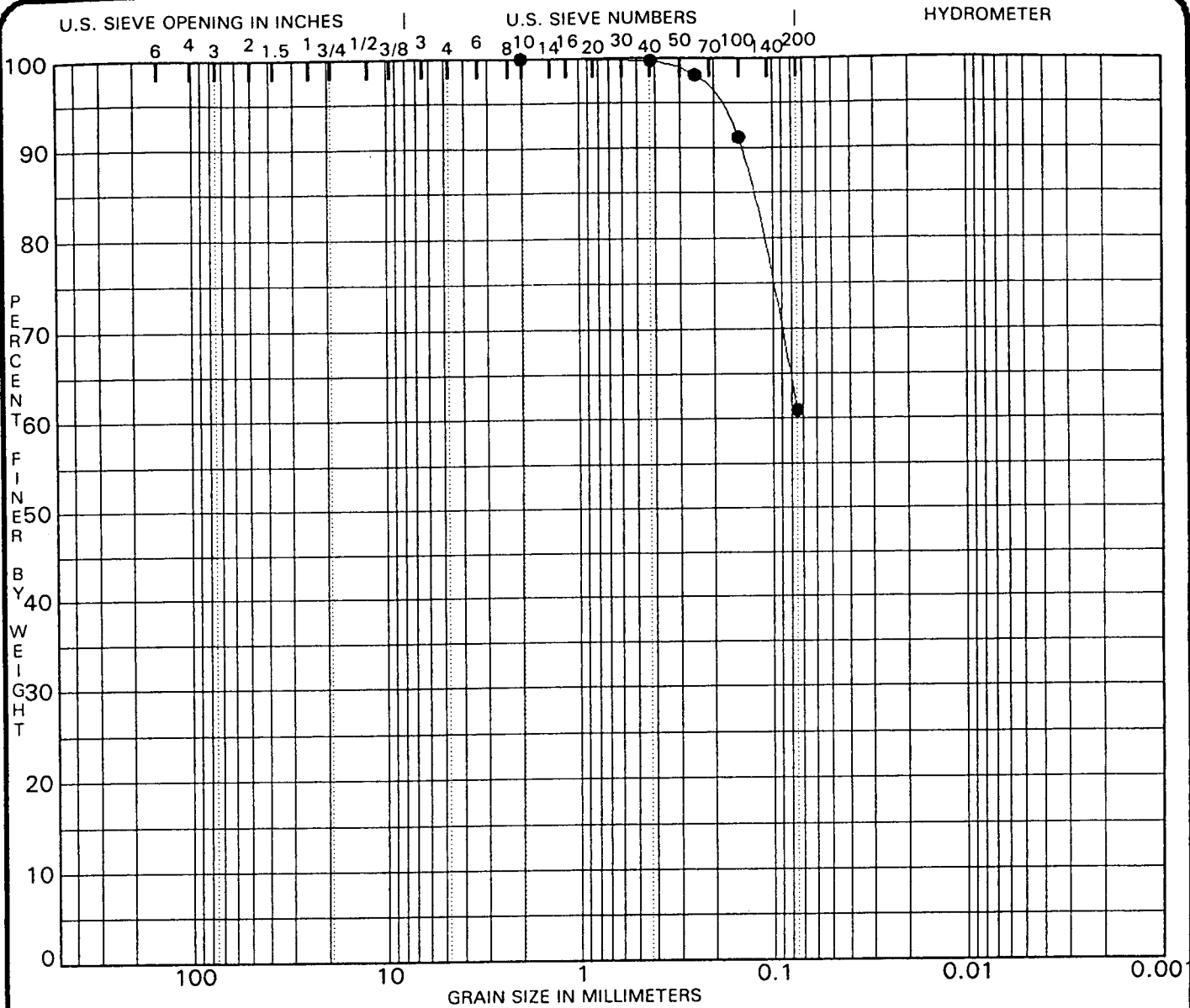
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-10 2.0		18					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-10 2.0	2.00	0.19	0.109		0.0	83.6	16.4	

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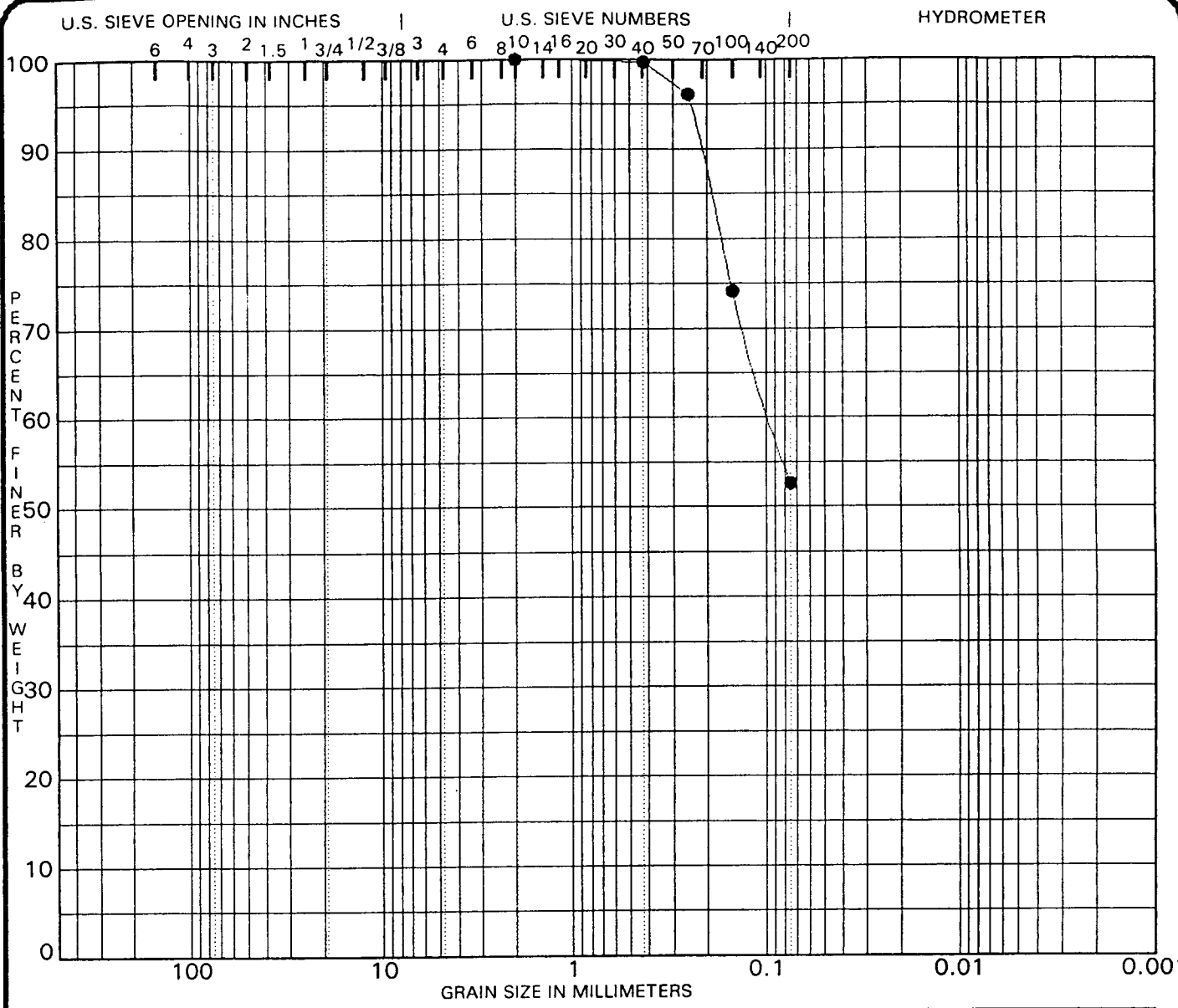
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-11 2.0		53					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-11 2.0	2.00				0.0	39.1	60.9	

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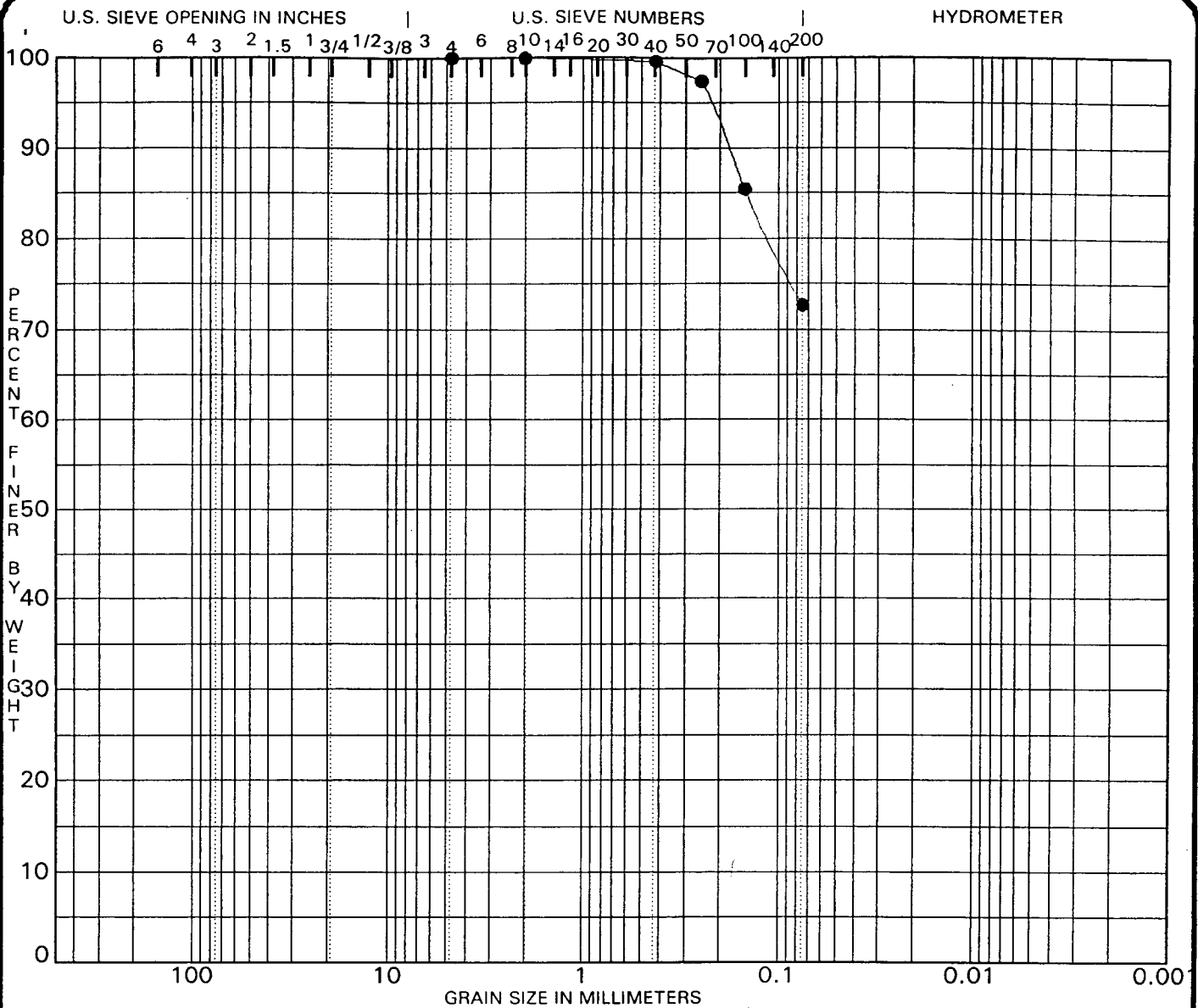
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
AS-12 2.0		36					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
AS-12 2.0	2.00	0.10			0.0	47.4	52.6	

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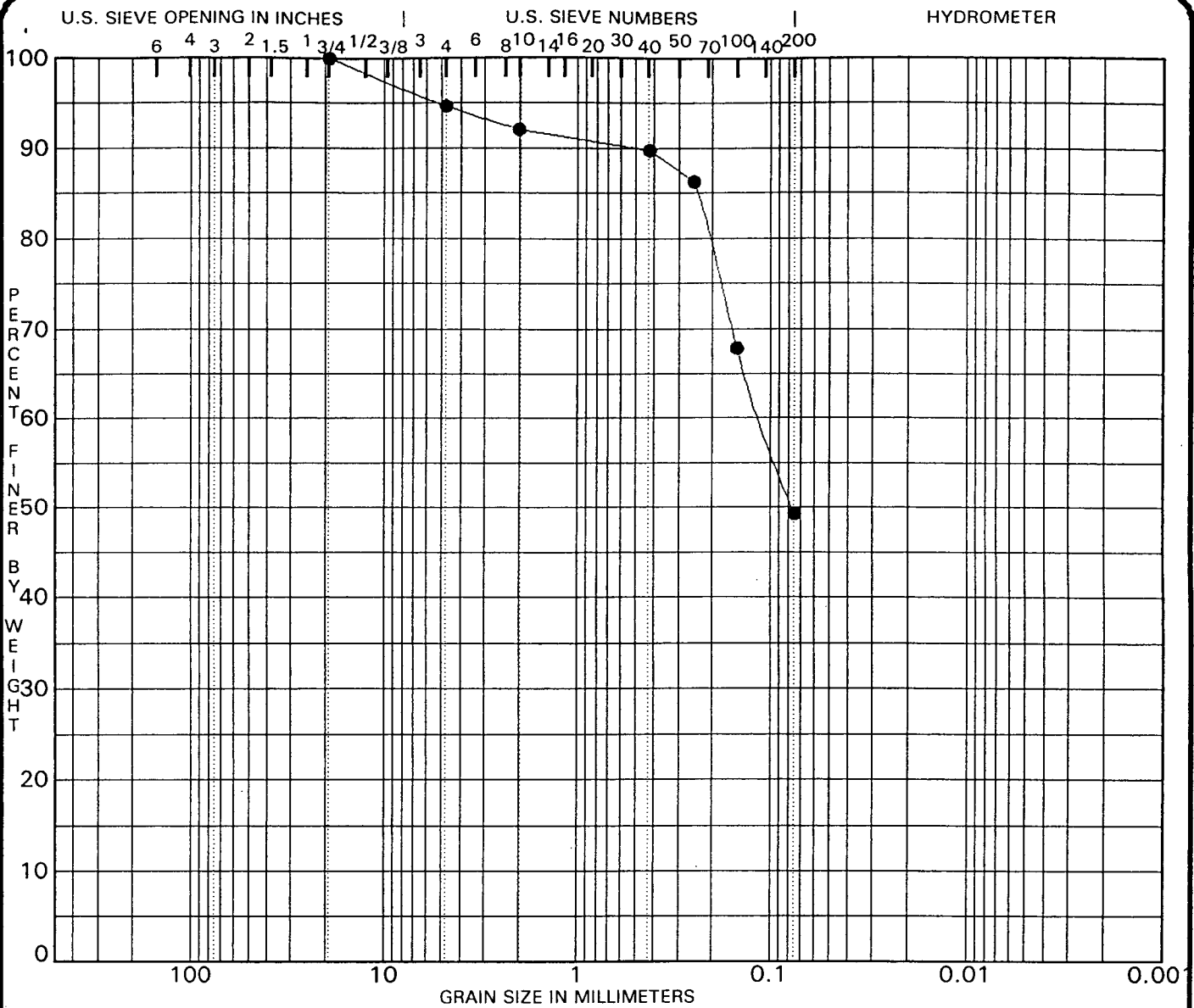
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-13 2.0		40					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-13 2.0	4.75				0.0	27.4	72.6	

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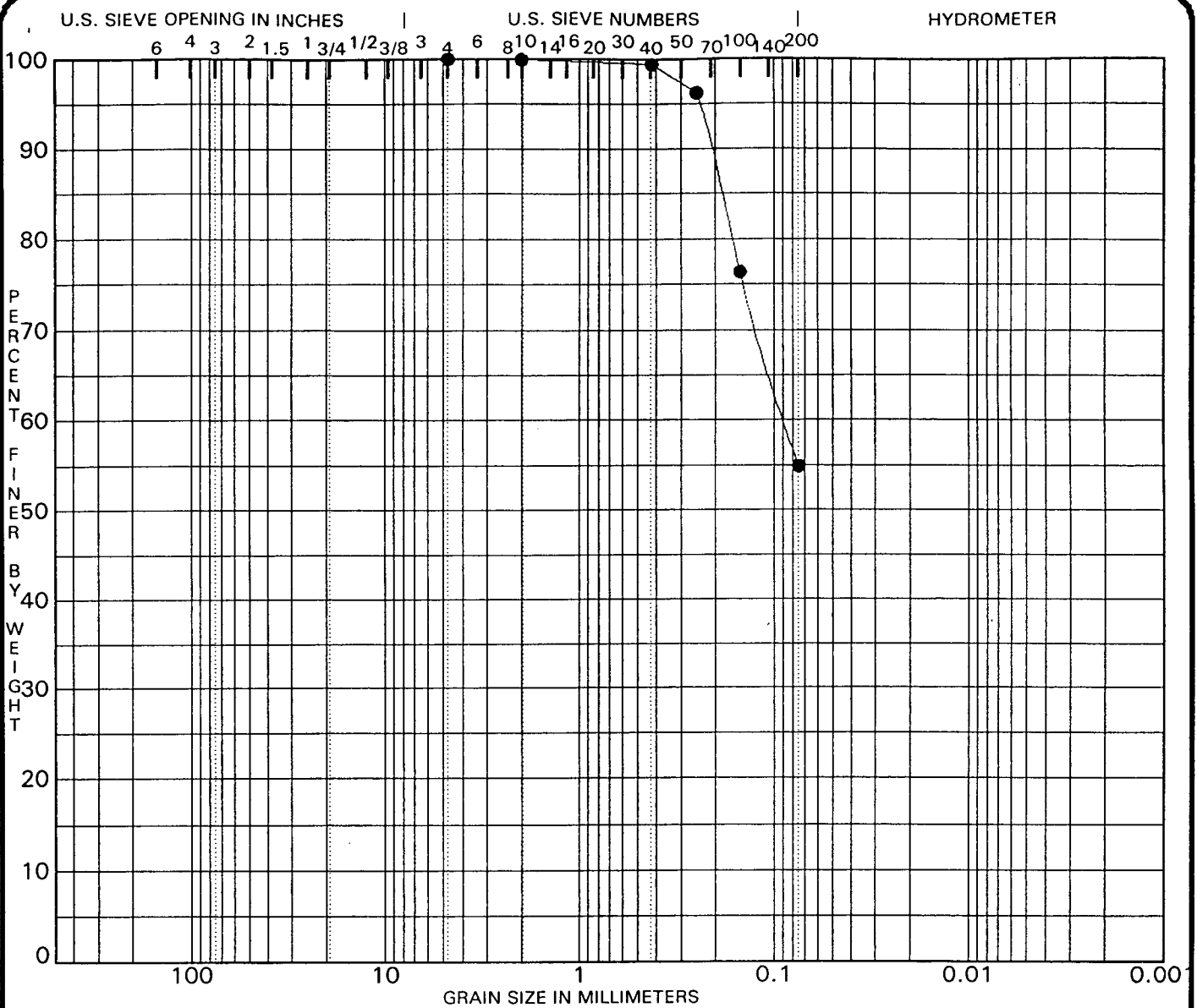
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-14 2.0		25					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-14 2.0	19.00	0.11			5.4	45.3	49.3	

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

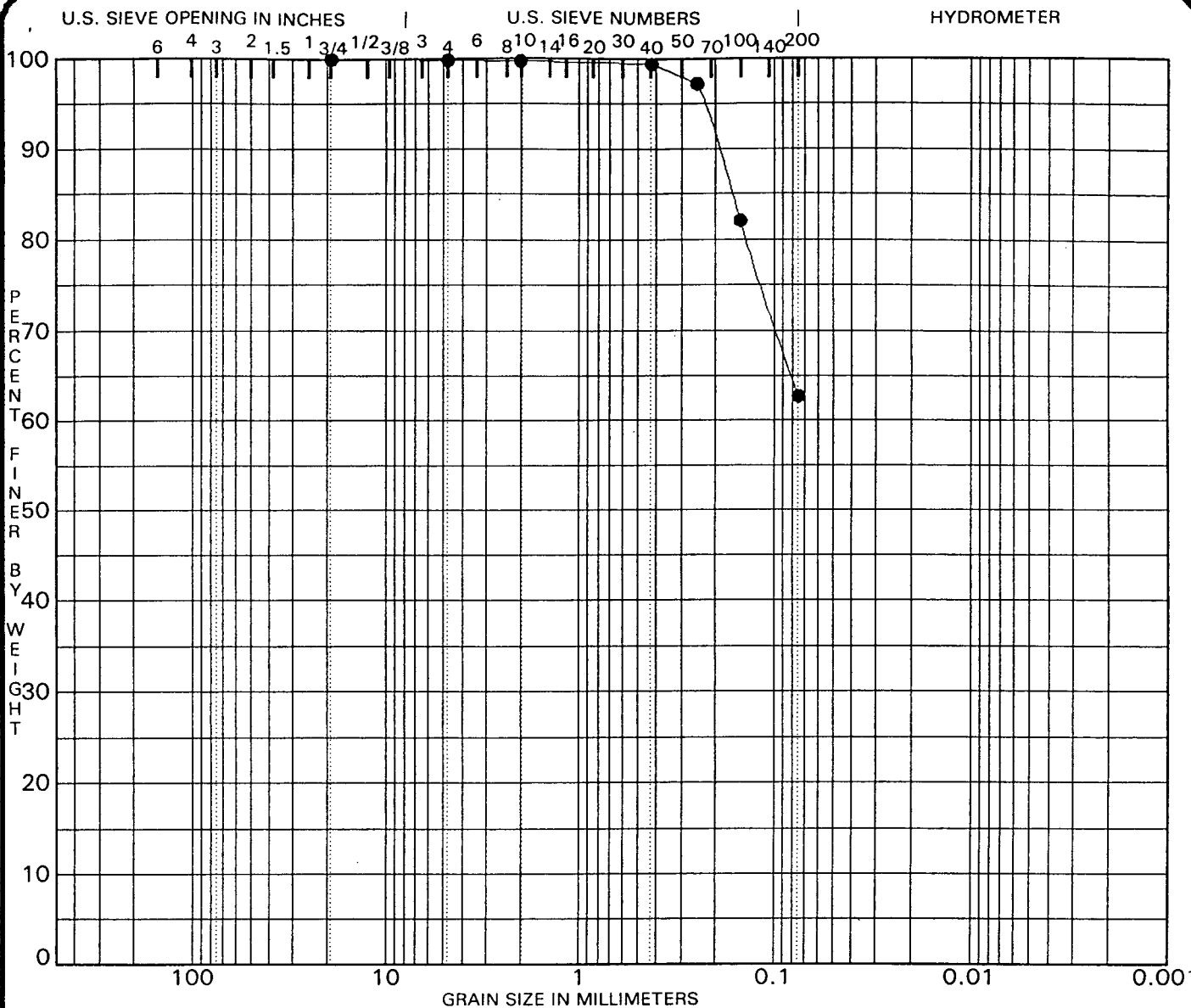
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-15 2.0		31					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-15 2.0	4.75	0.09			0.0	45.1	54.9	

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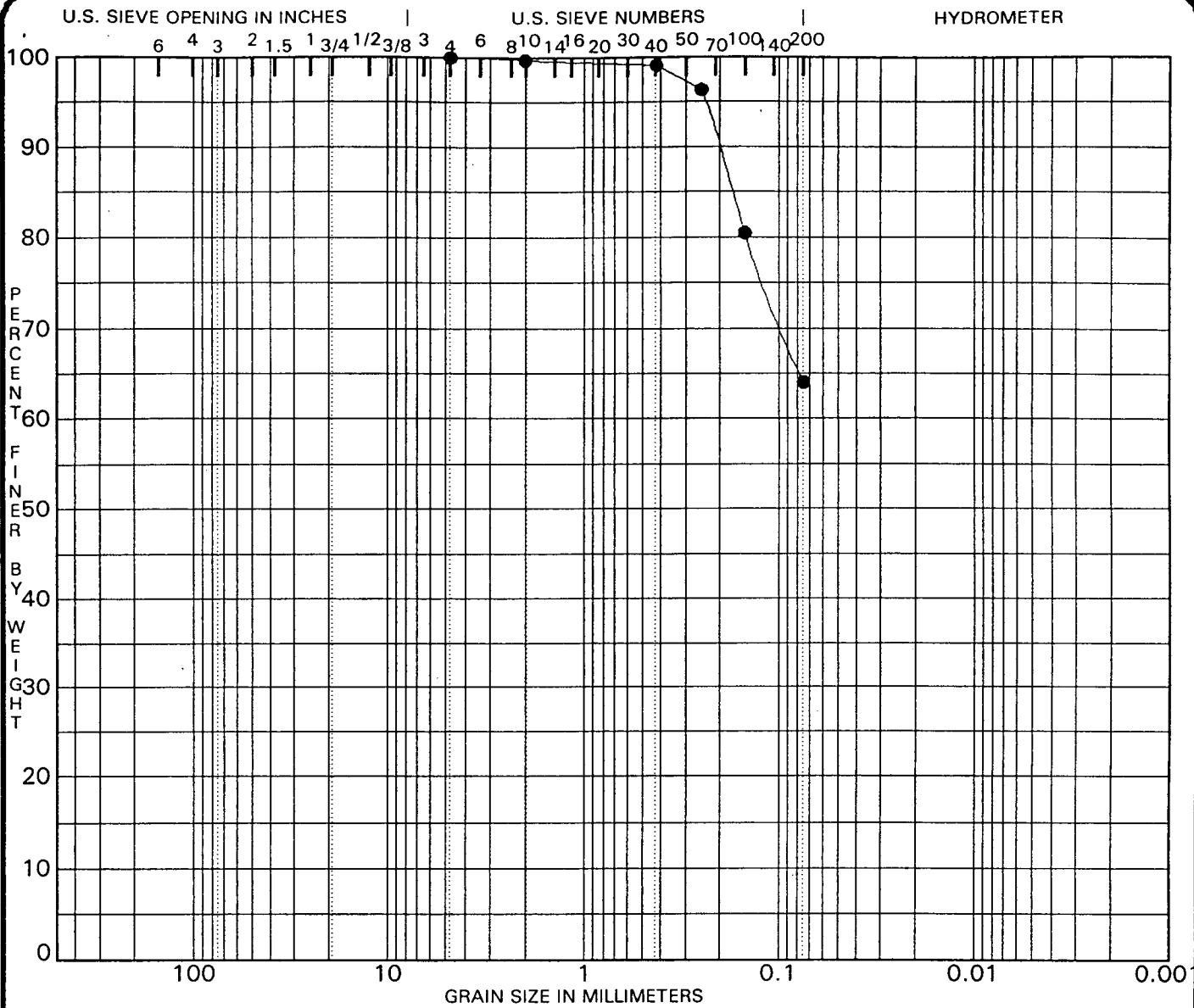
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-16 2.0		32					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-16 2.0	19.00				0.2	37.1	62.7	

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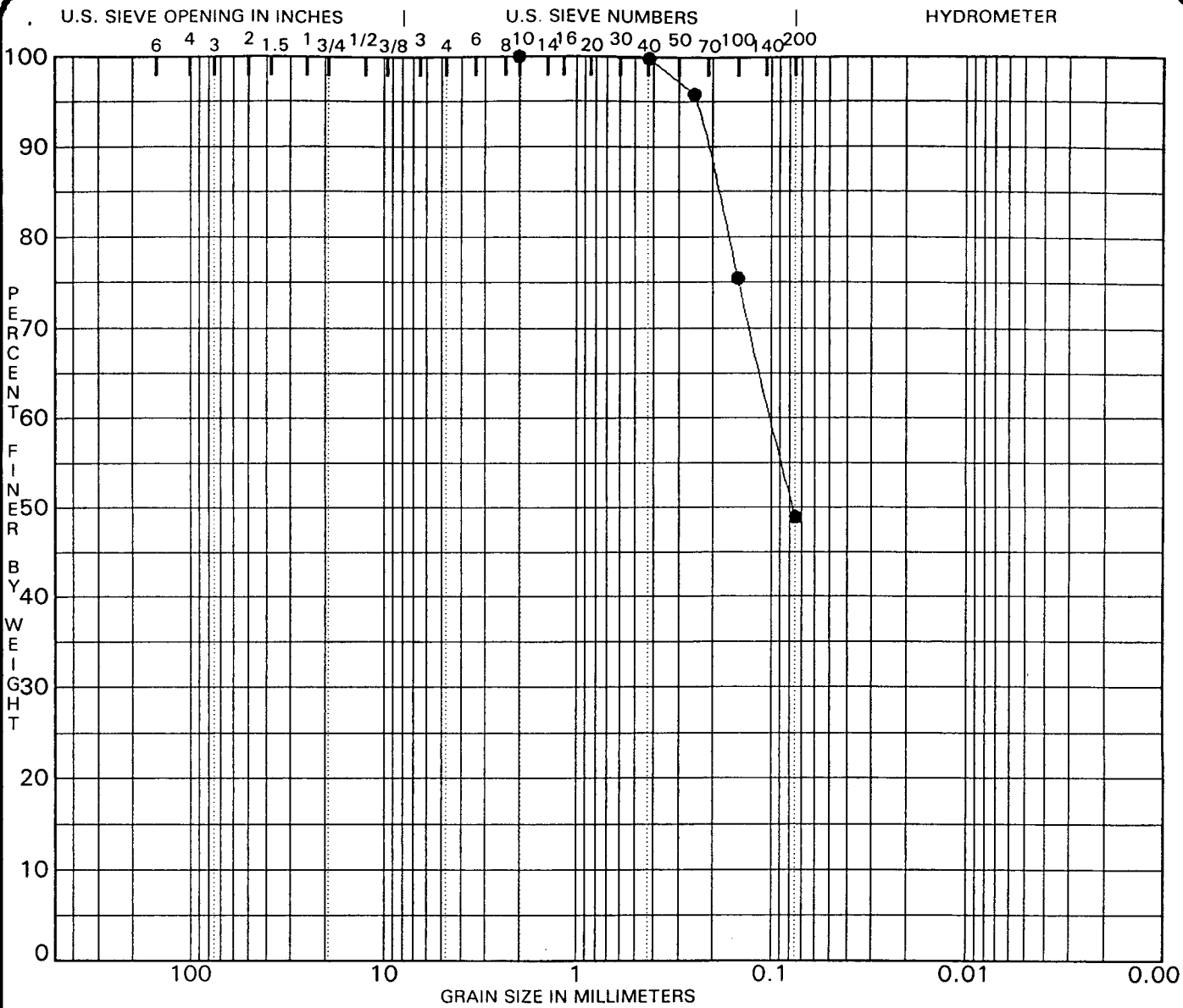
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-17 2.0		35					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-17 2.0	4.75				0.0	36.0	64.0	

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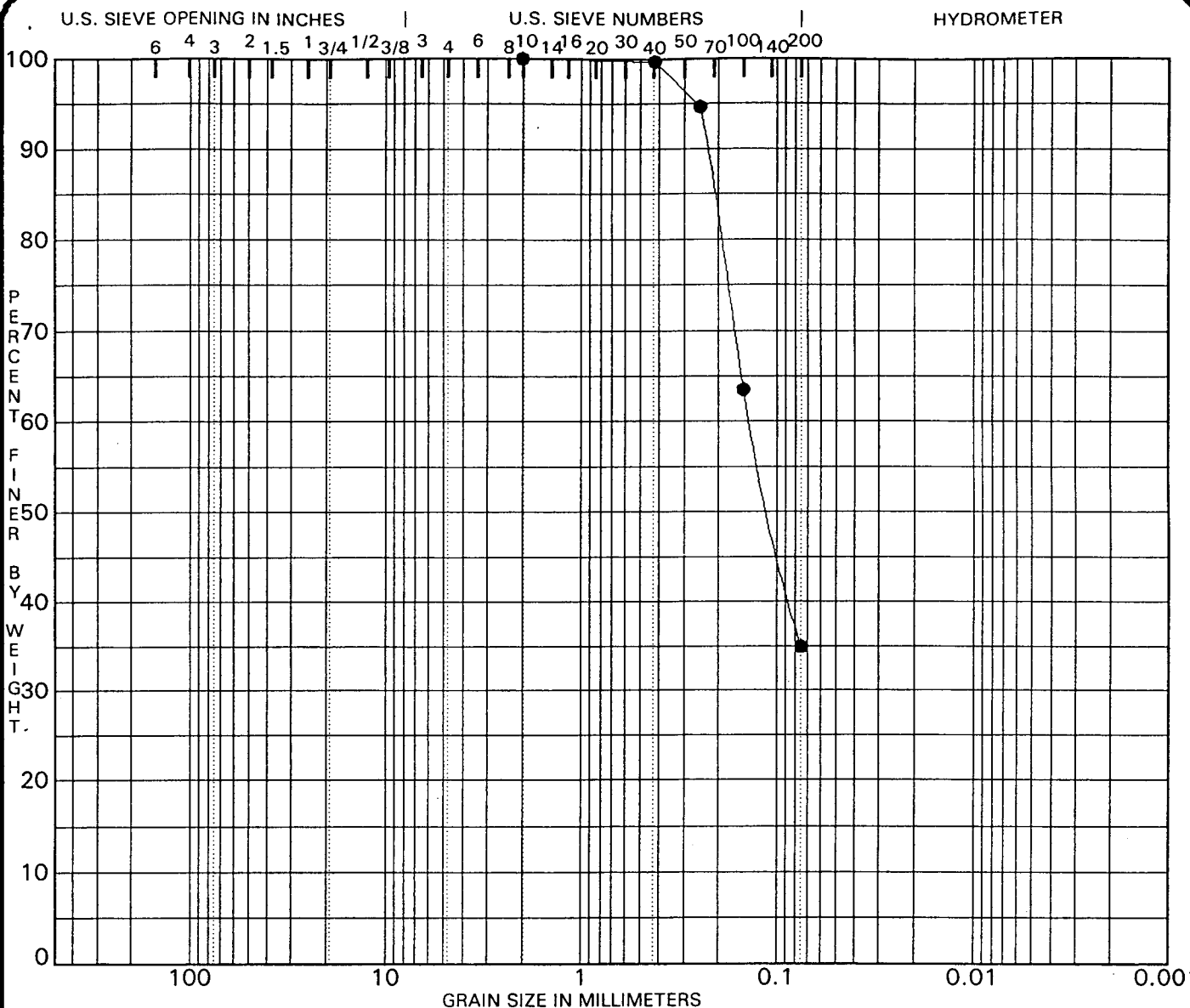
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-18 2.0		28					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-18 2.0	2.00	0.10			0.0	51.1	48.9	

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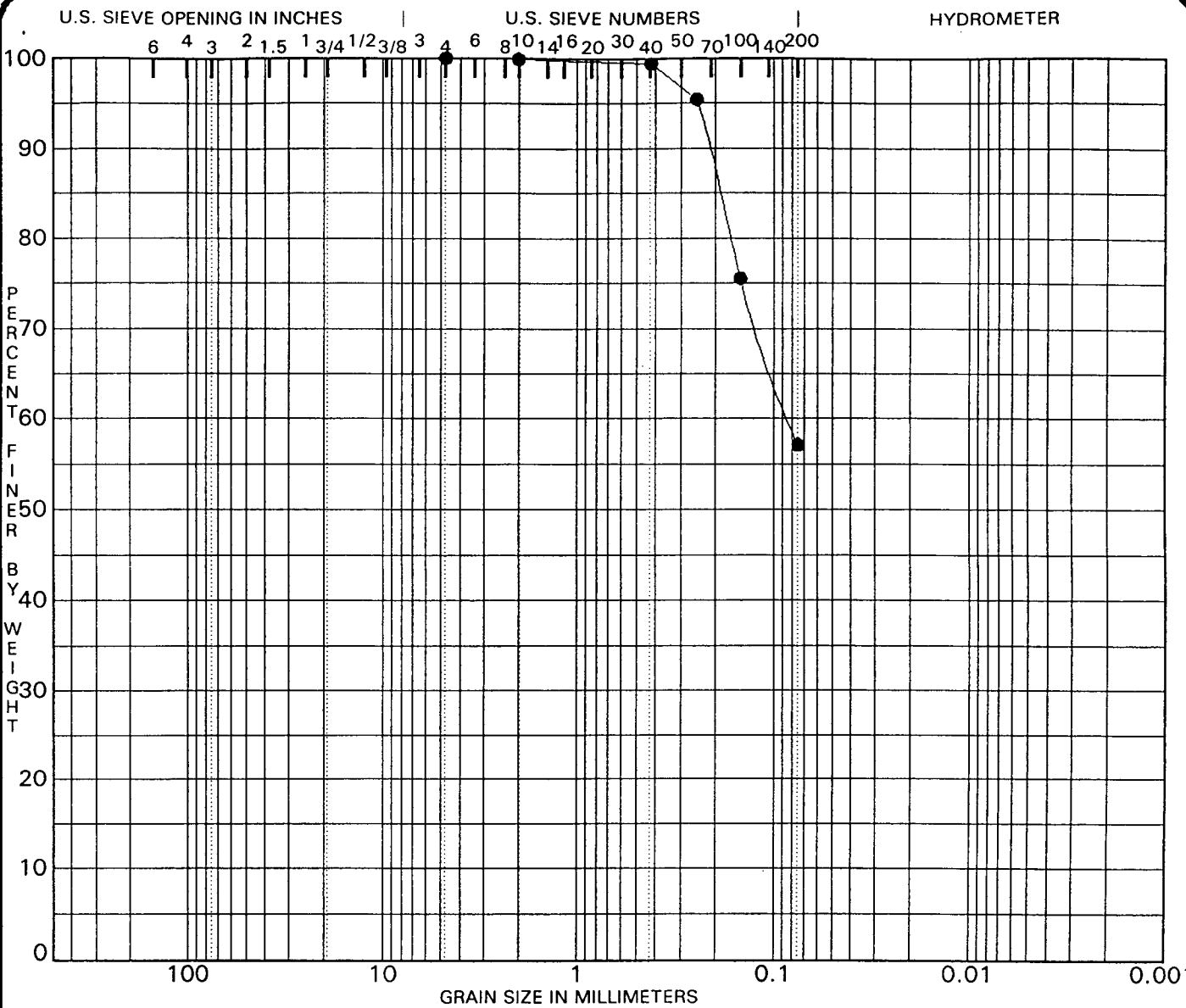
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-19 2.0		20					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-19 2.0	2.00	0.14			0.0	65.1	34.9	

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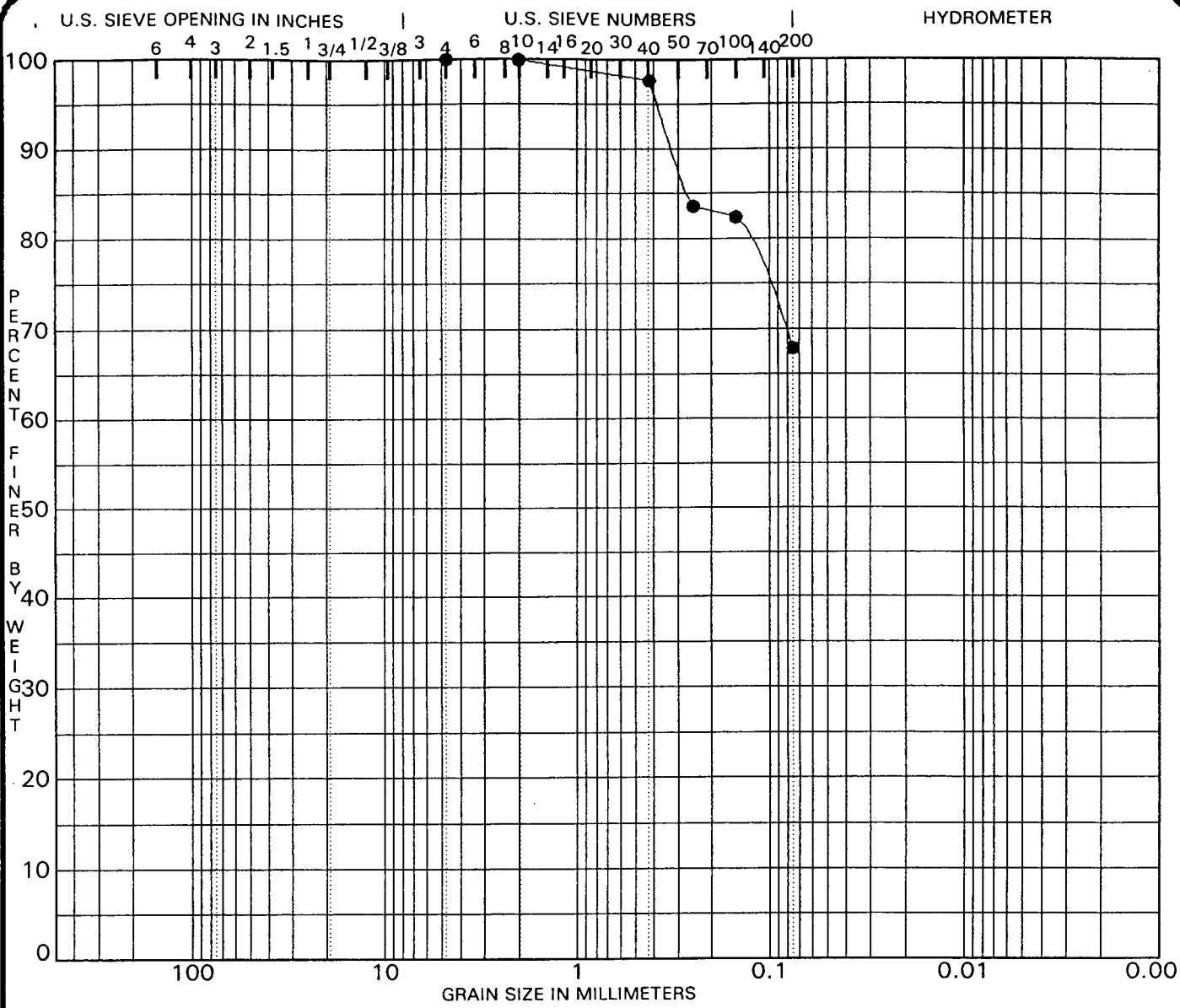
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-21 2.0		29					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-21 2.0	4.75	0.08			0.0	42.9	57.1	

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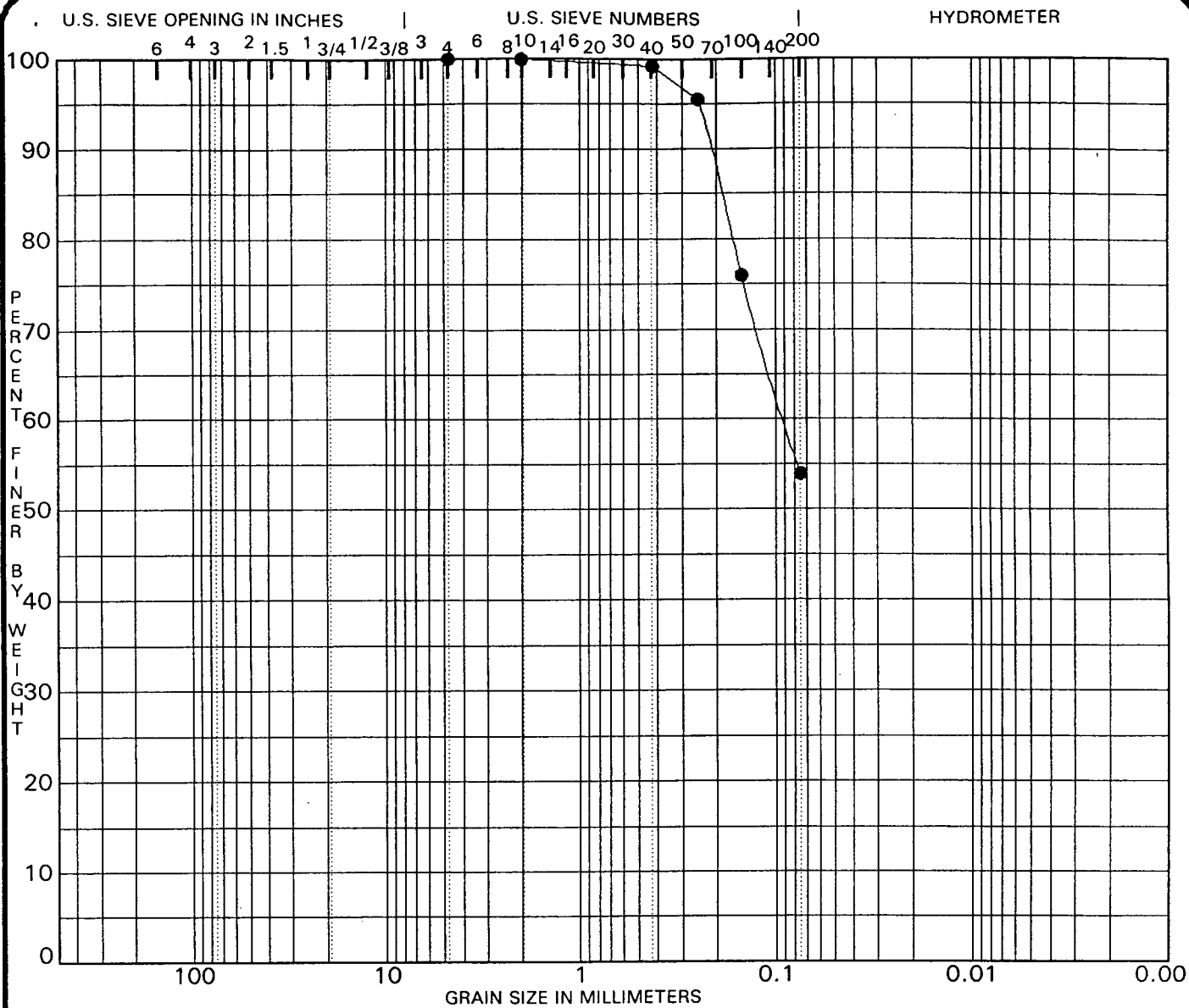
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-22 2.0		36					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-22 2.0	4.75				0.0	32.2	67.8	

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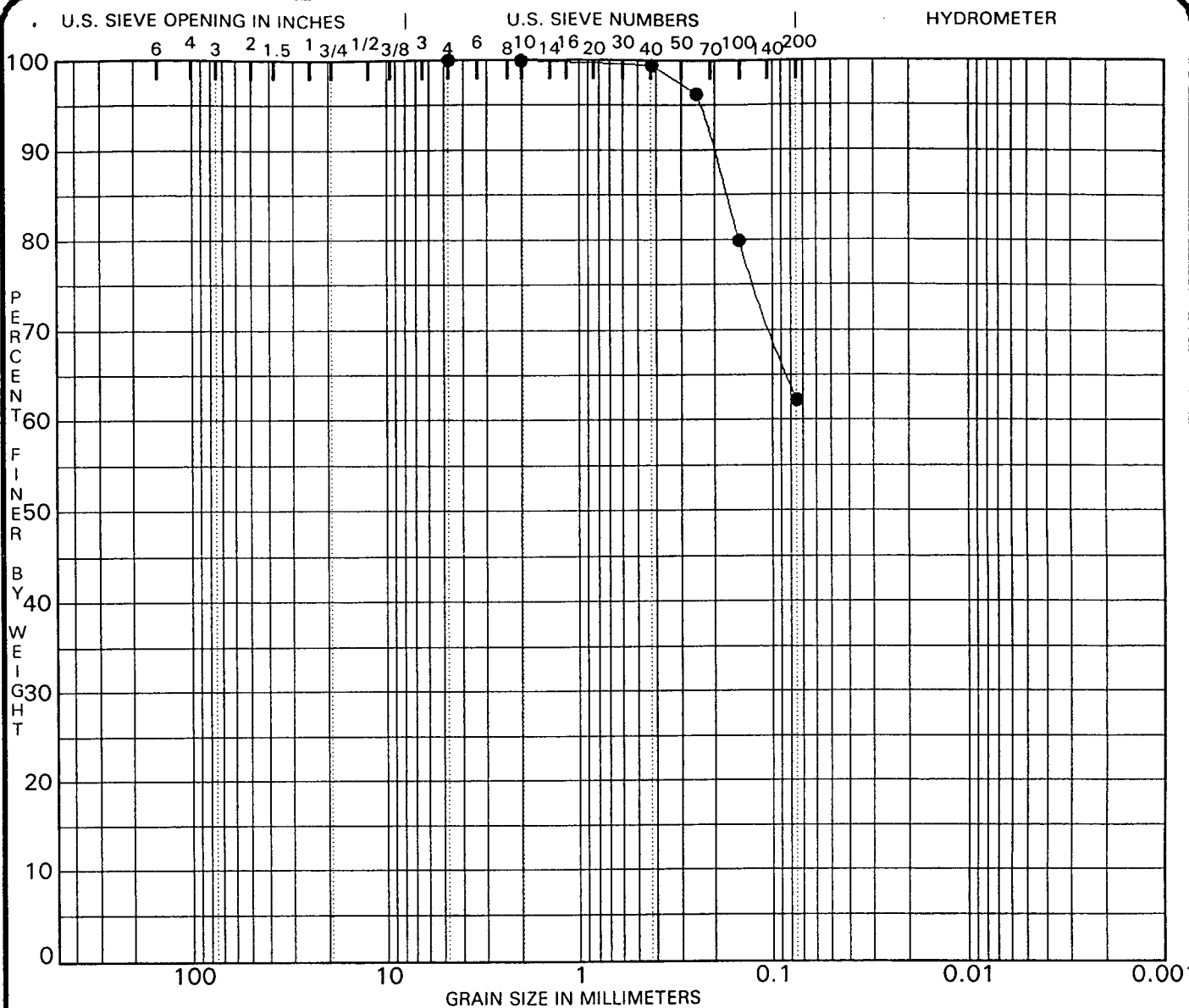
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-23 2.0		33					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-23 2.0	4.75	0.09			0.0	46.1	53.9	

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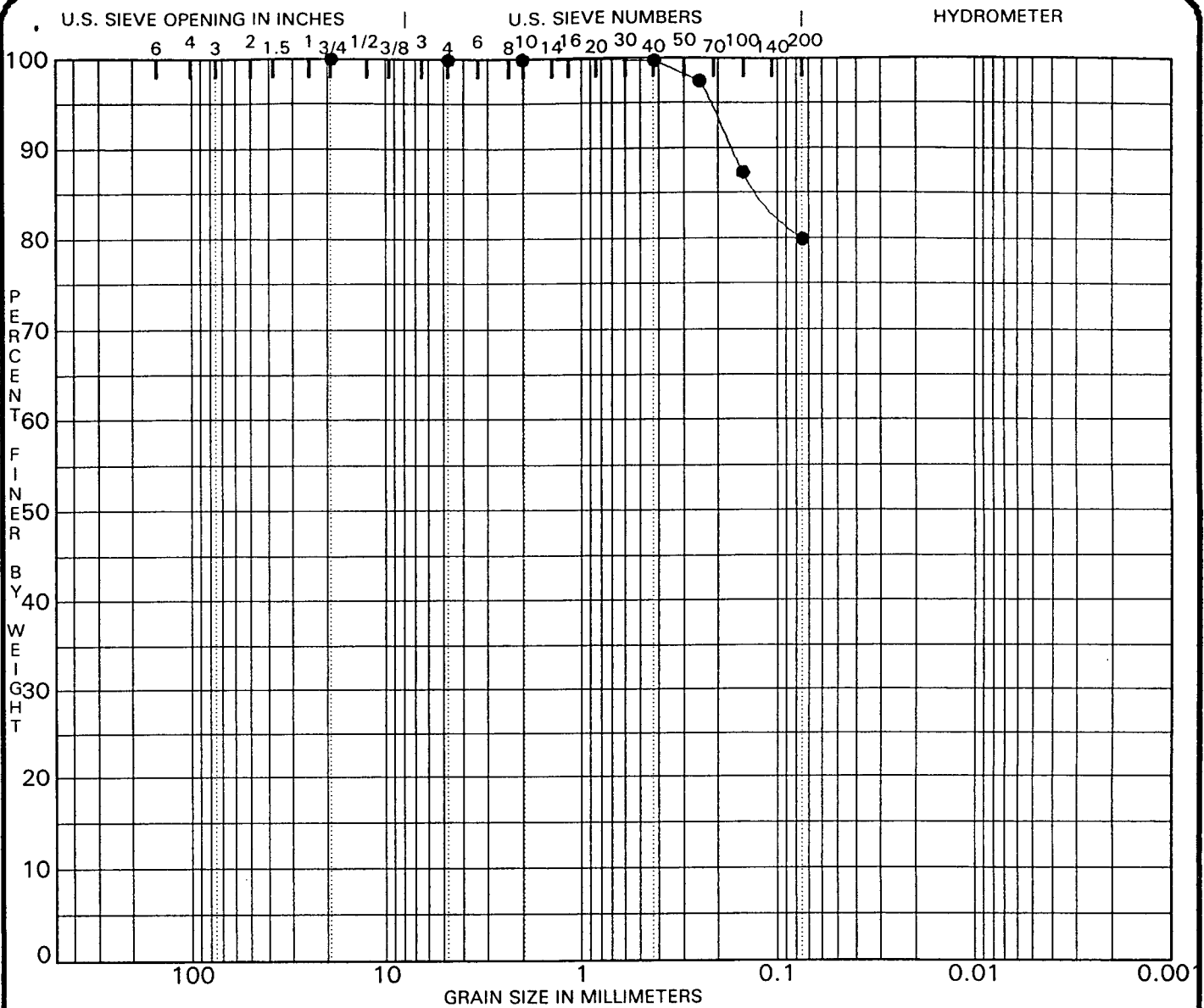
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-24 2.0		40					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-24 2.0	4.75				0.0	37.8	62.2	

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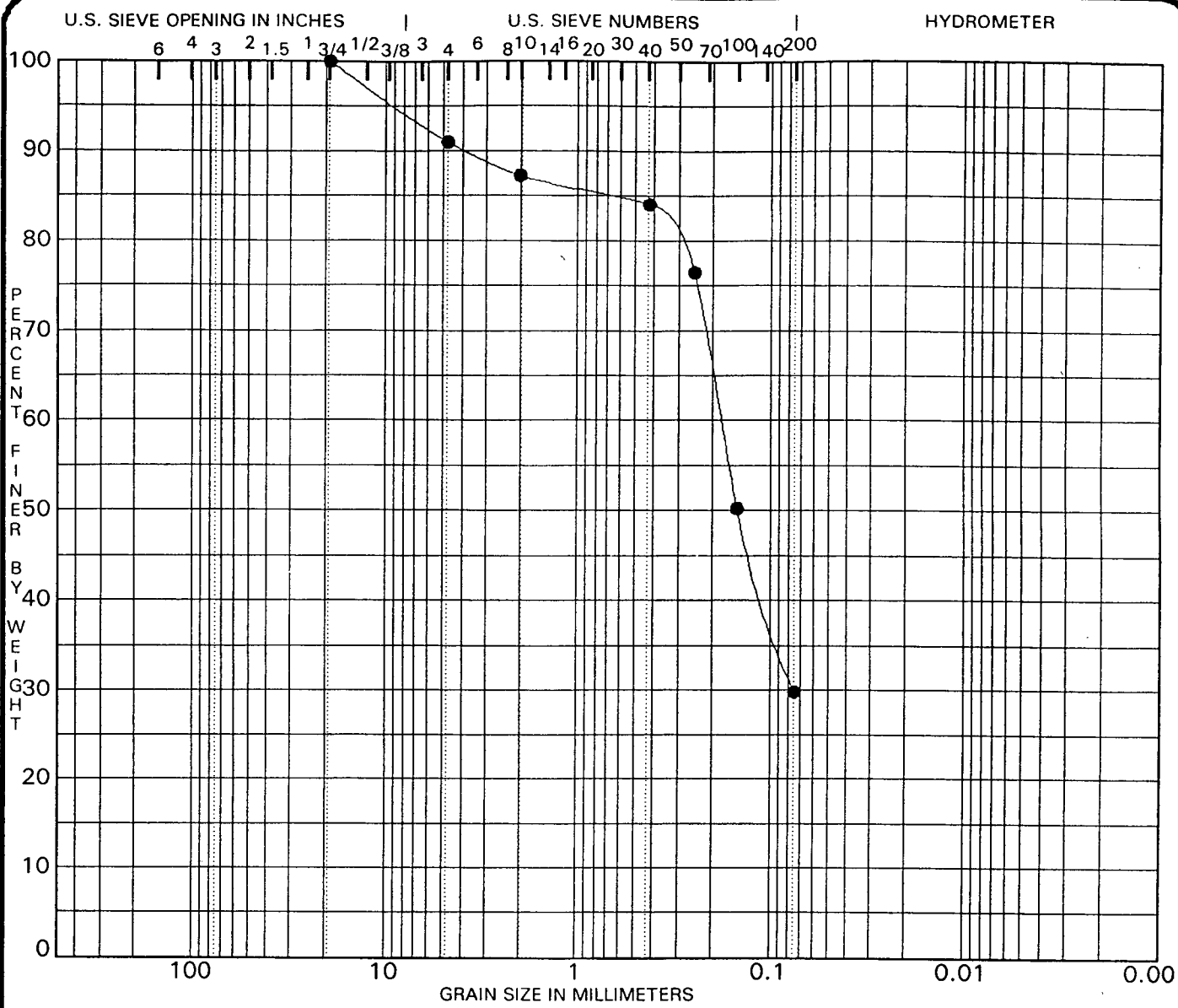
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-25 2.0		43					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-25 2.0	19.00				0.1	20.1	79.8	

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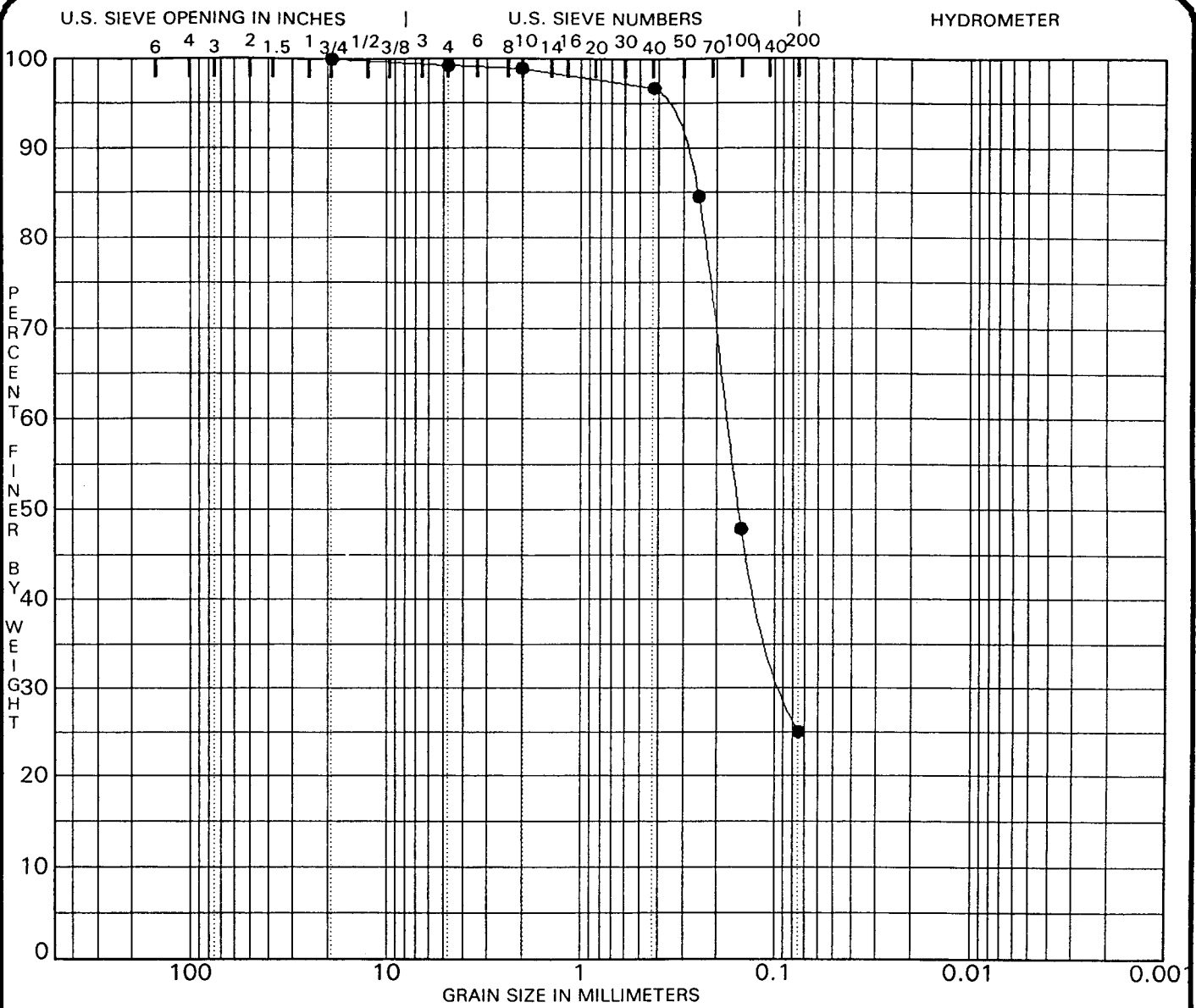
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-26 2.0		17					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-26 2.0	19.00	0.18	0.076		9.1	61.1	29.8	

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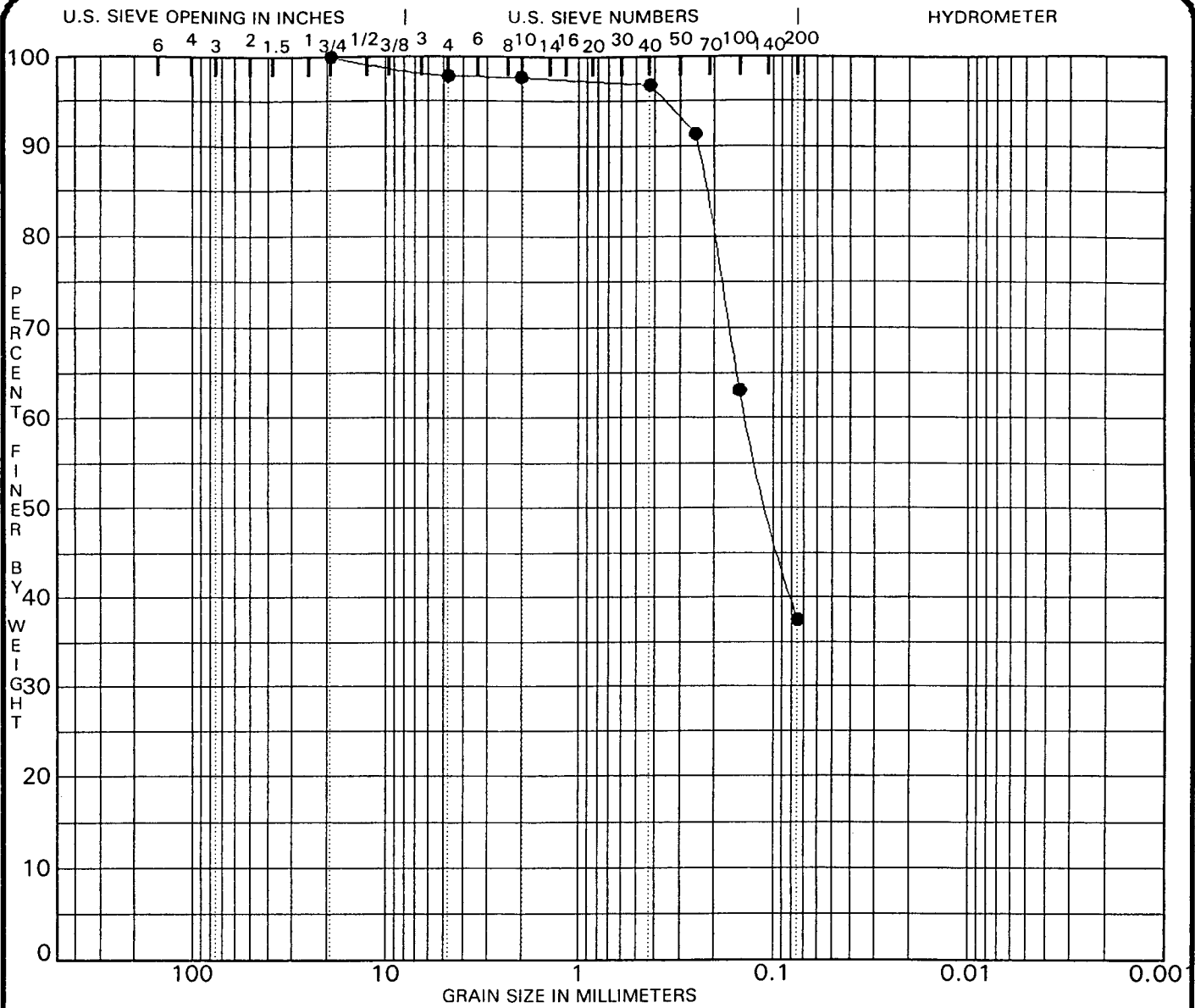
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-27 2.0		17					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-27 2.0	19.00	0.18	0.087		0.8	74.2	25.0	

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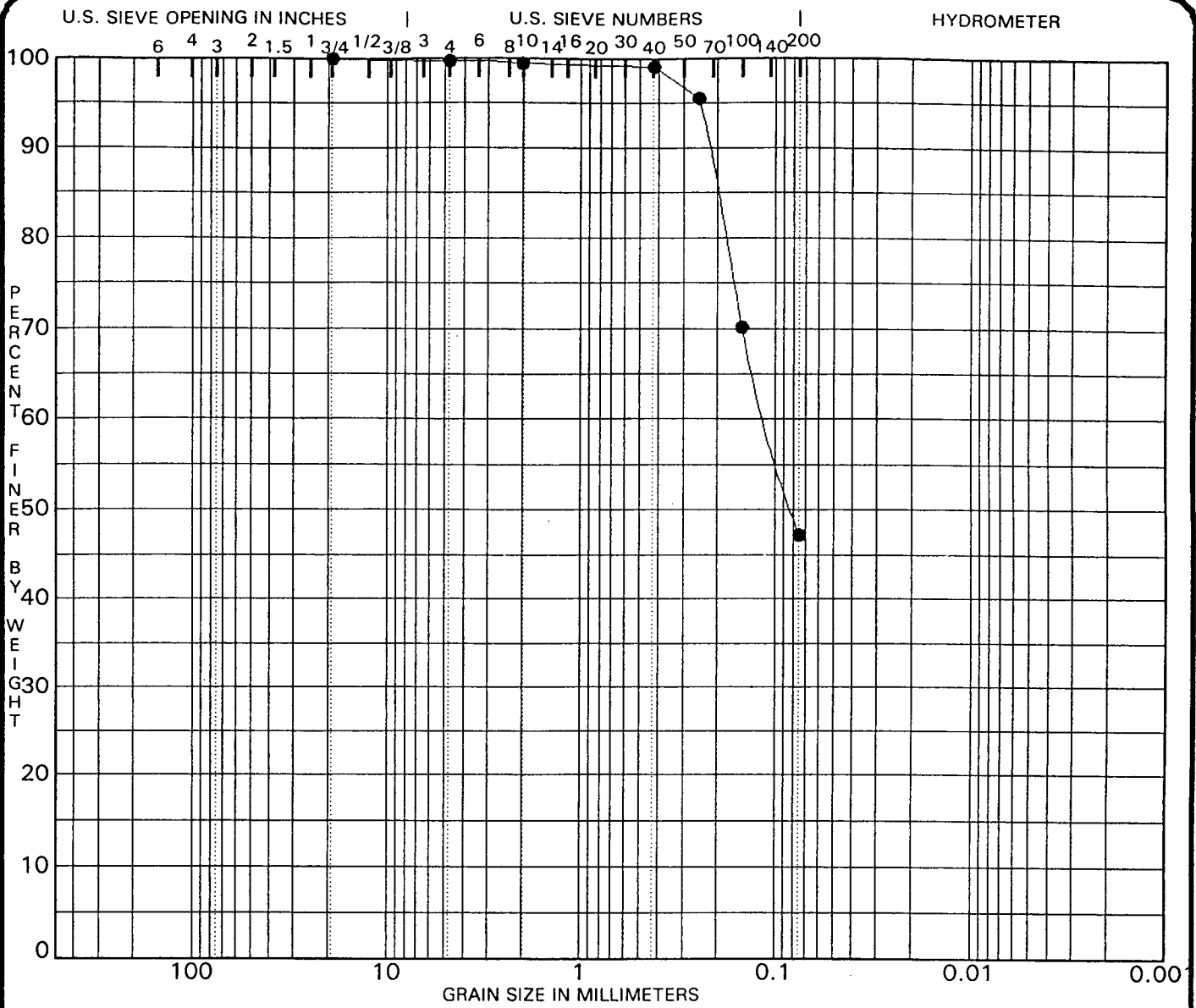
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-28 2.0		19					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-28 2.0	19.00	0.14			2.2	60.3	37.5	

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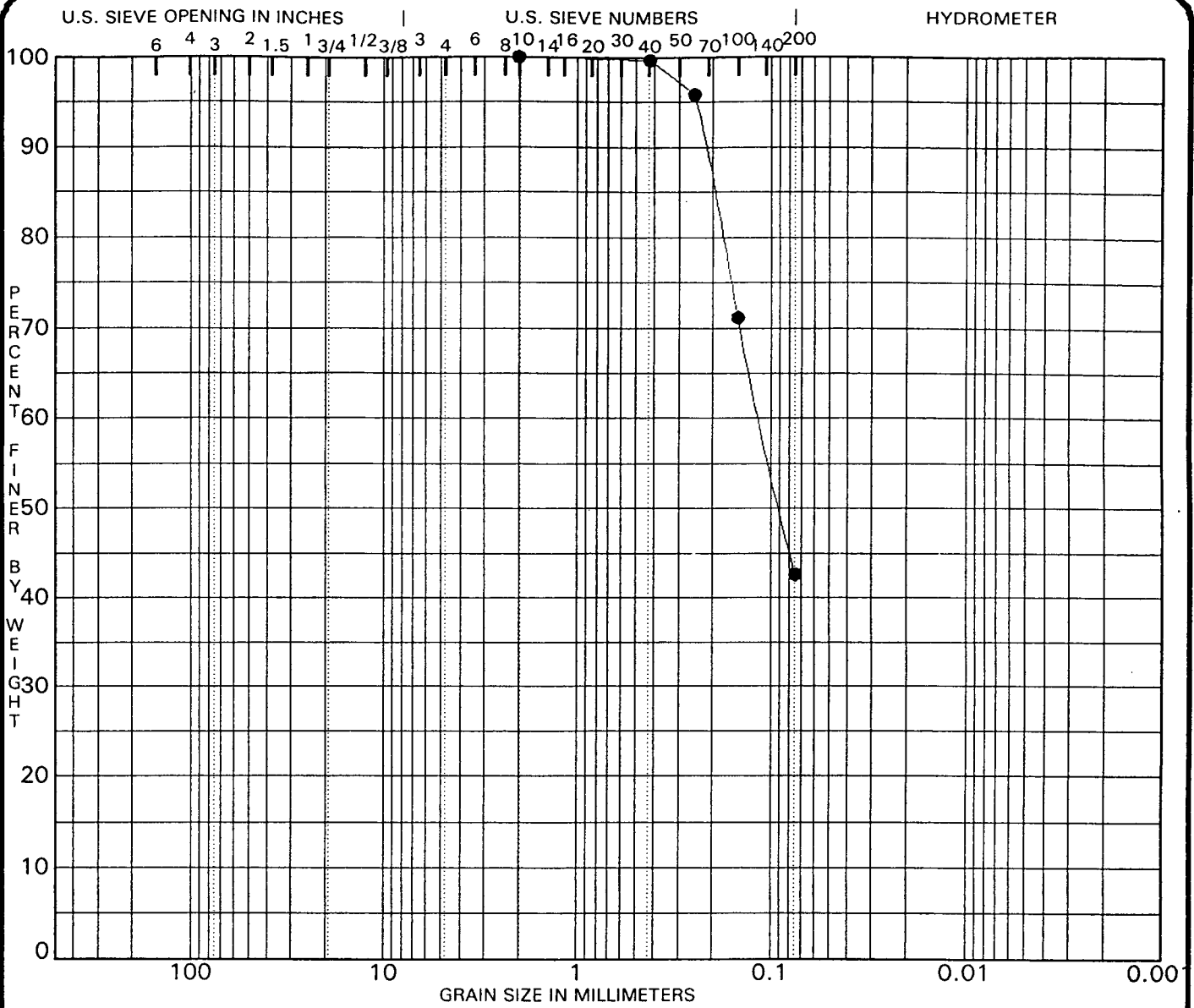
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-29 2.0		23					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-29 2.0	19.00	0.11			0.3	52.5	47.2	

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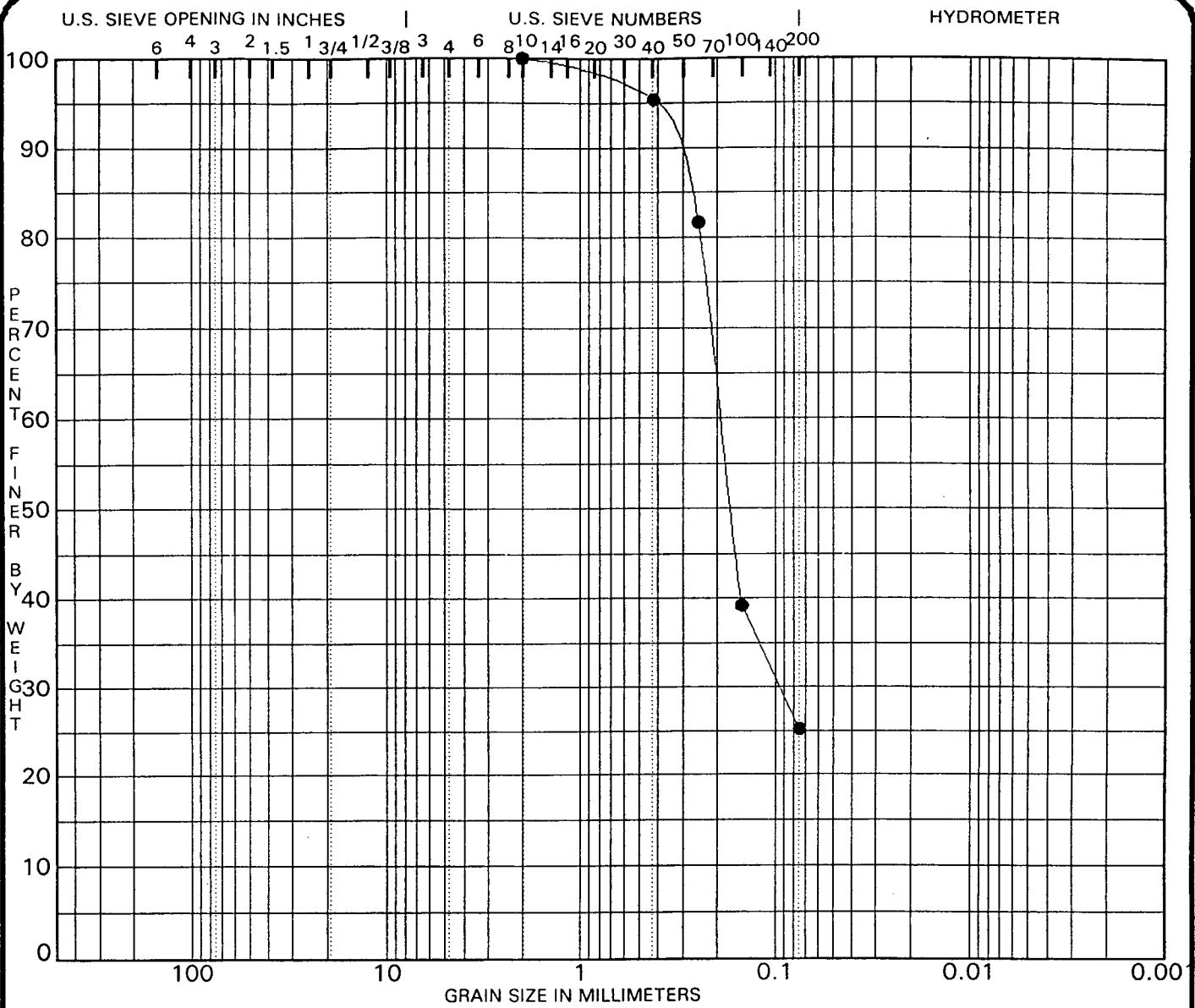
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-30 2.0		22					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-30 2.0	2.00	0.11			0.0	57.4	42.6	

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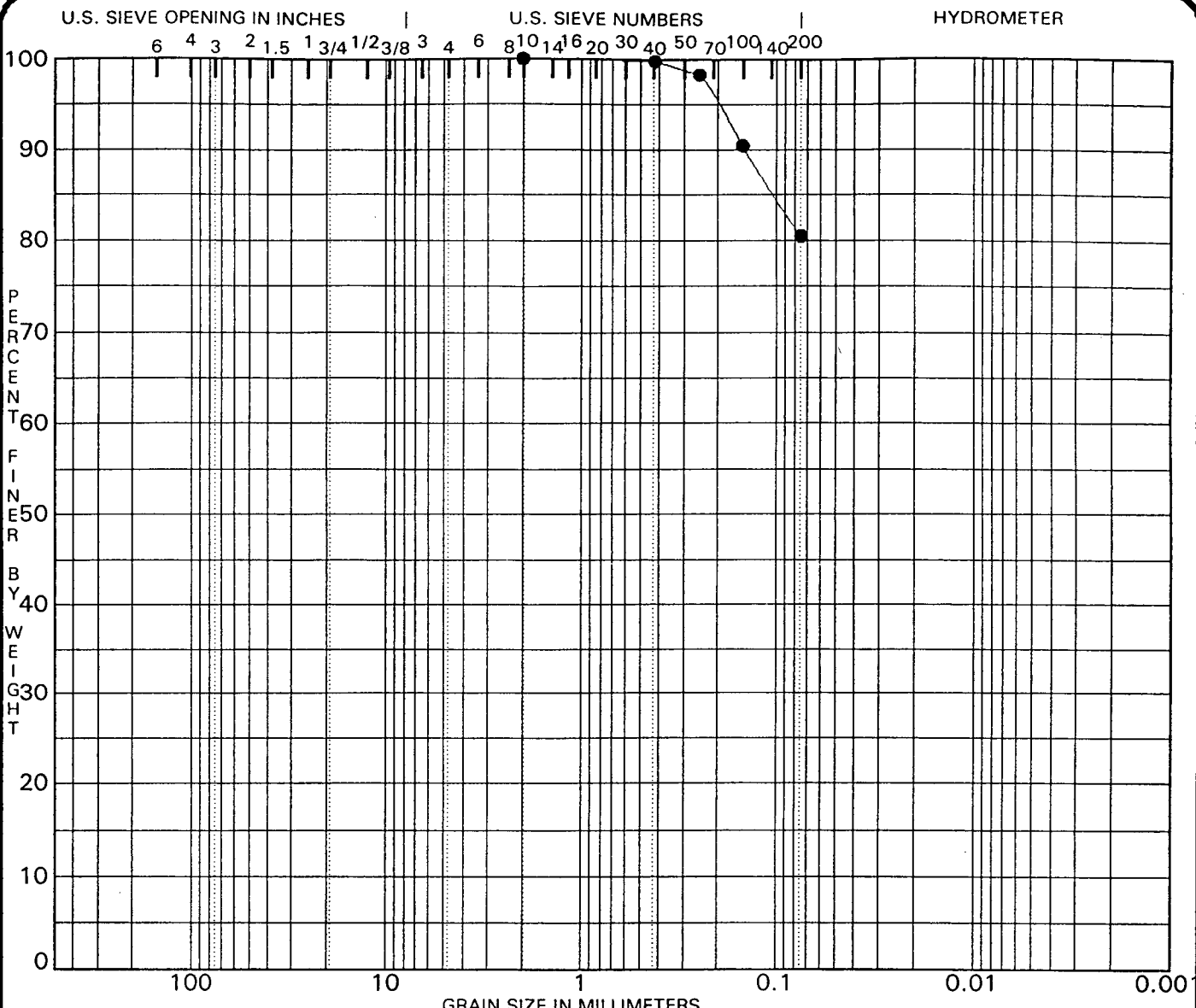
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-31 2.0		10					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-31 2.0	2.00	0.19	0.095		0.0	74.8	25.2	

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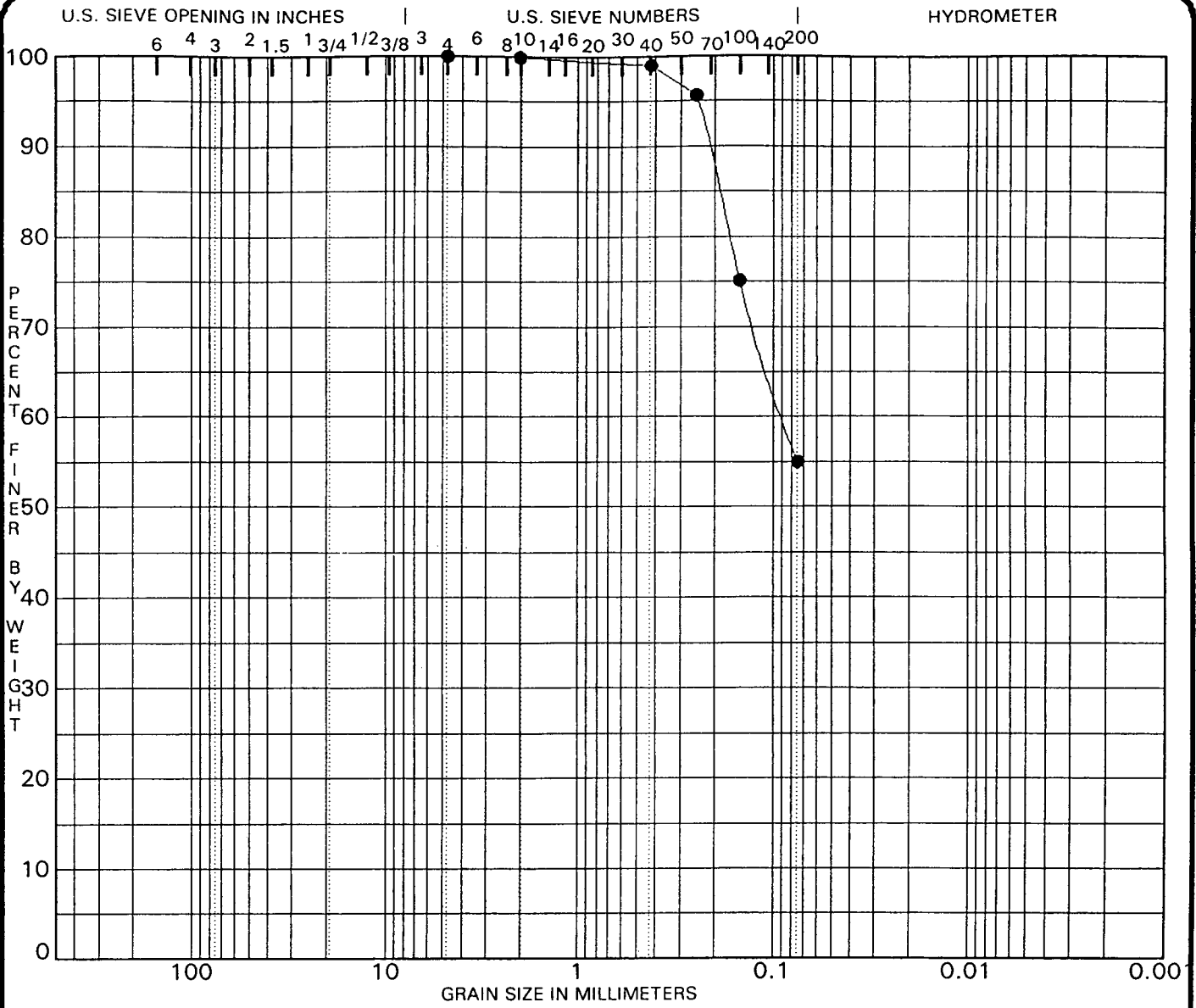
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					MC%	LL	PL	PI	Cc	Cu
● AS-32 2.0						43					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-32 2.0	2.00				0.0	19.6	80.4	

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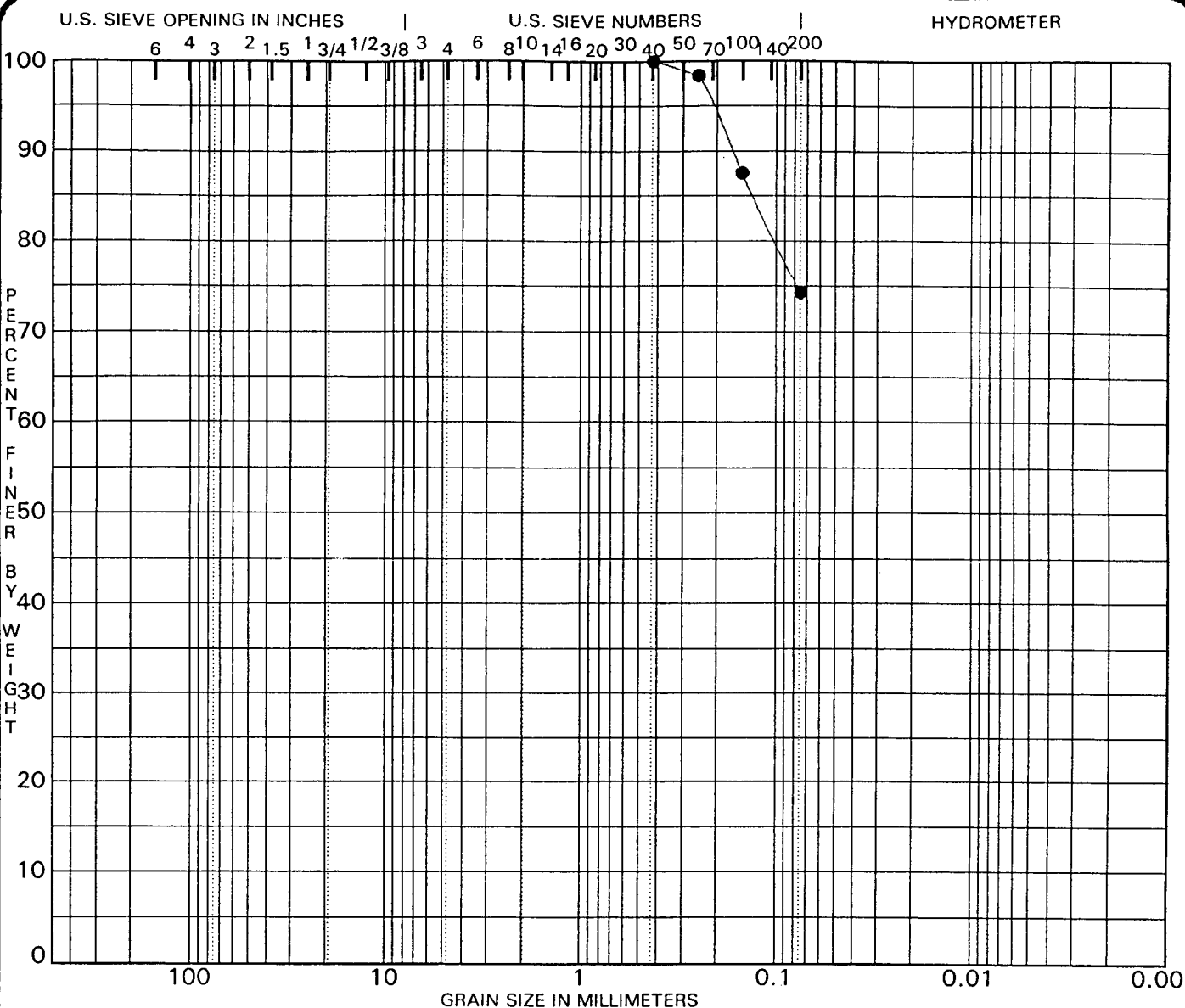
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-34 2.0		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-34 2.0	4.75	0.09			0.0	45.0	55.0	

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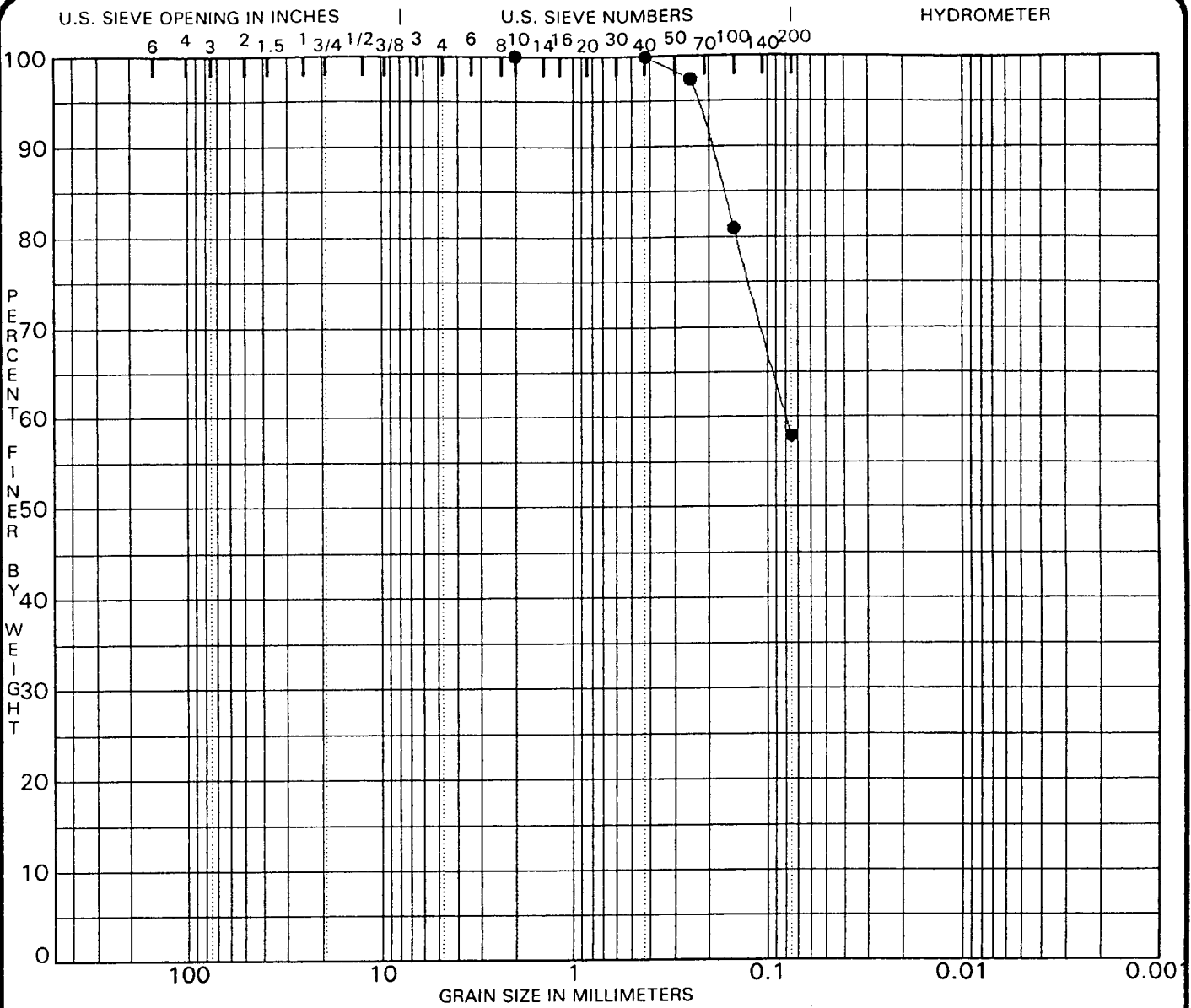
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-35 2.0		40					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-35 2.0	0.43				0.0	25.7	74.3	

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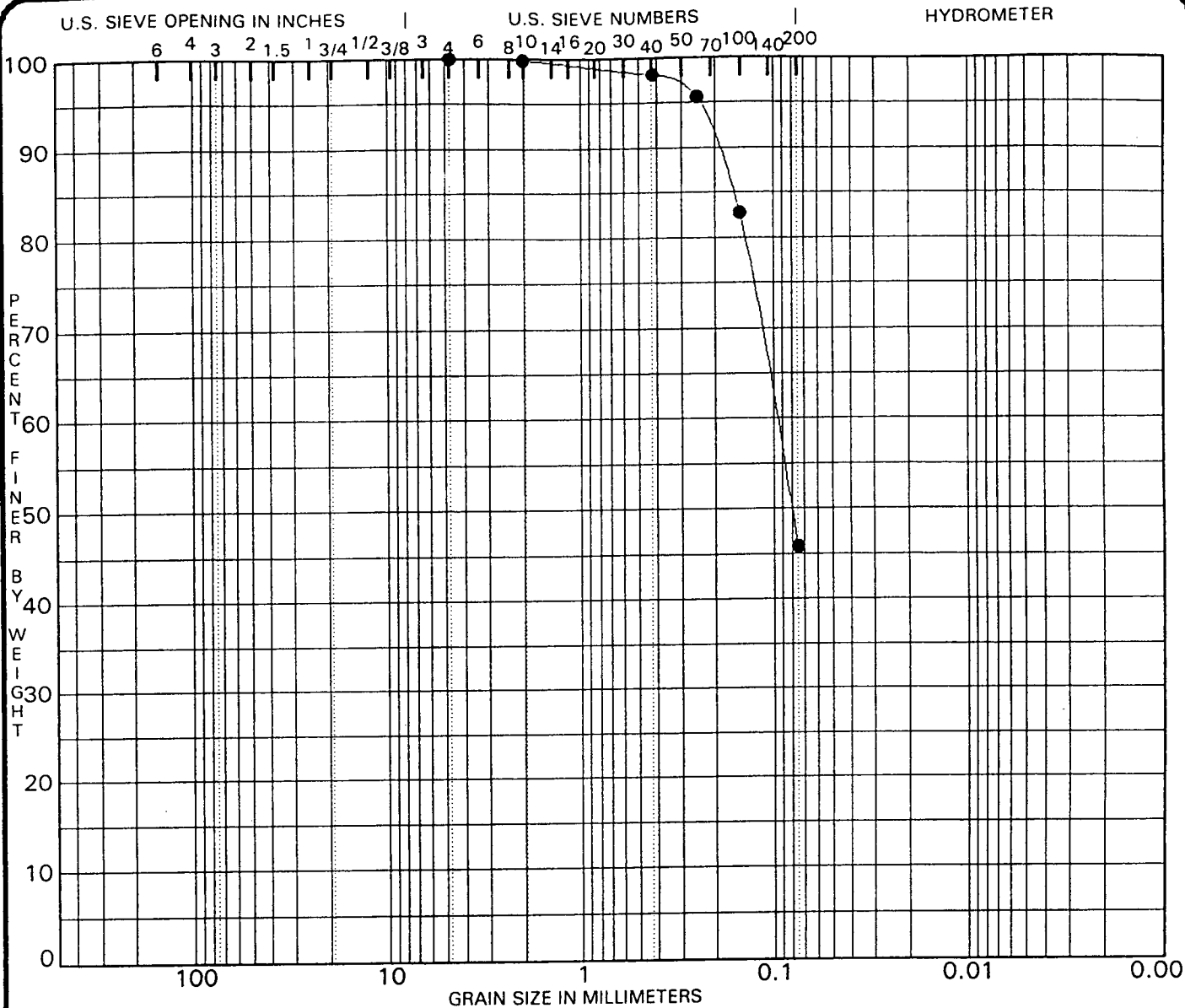
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-36 2.0		31					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-36 2.0	2.00	0.08			0.0	42.1	57.9	

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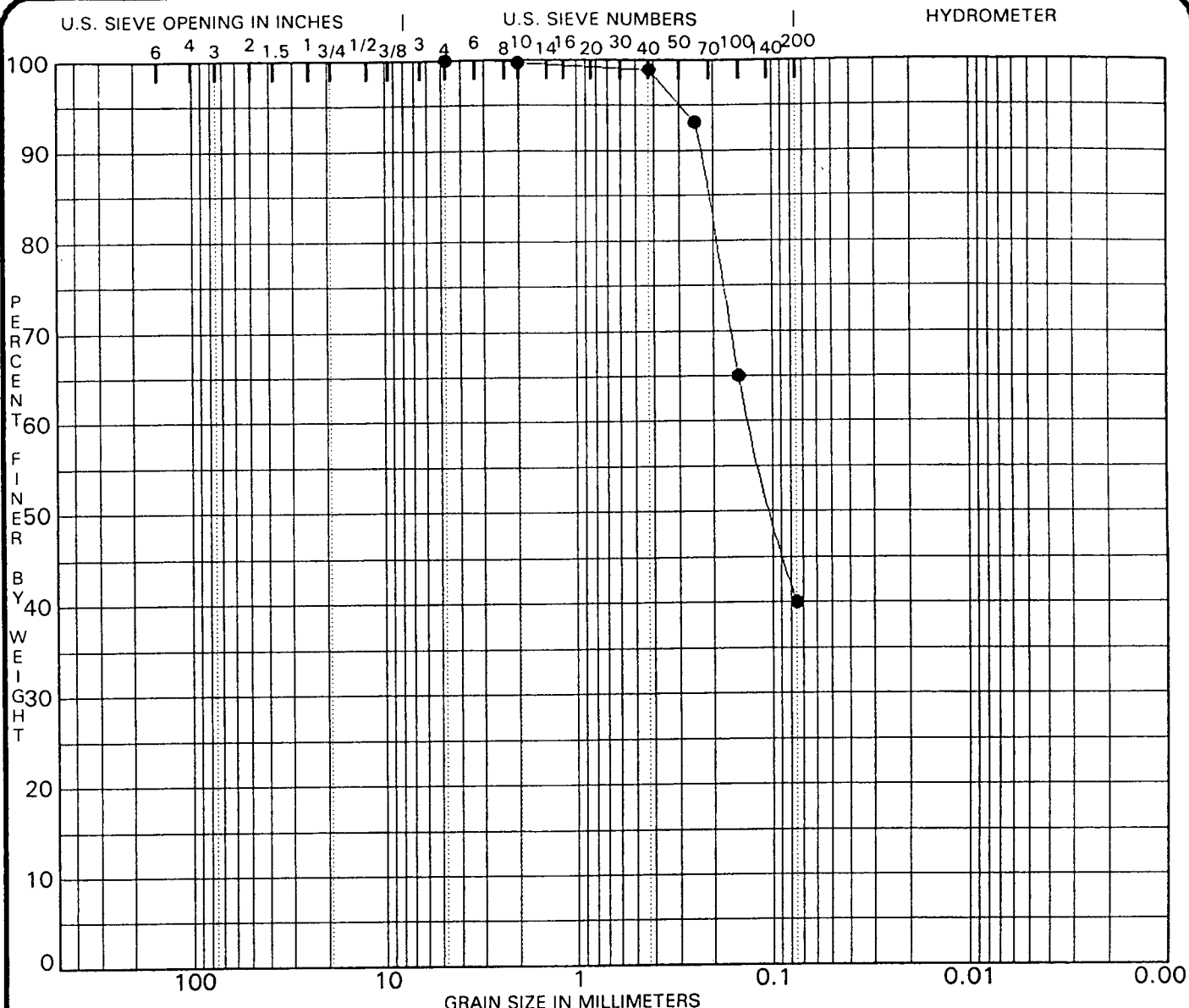
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
AS-37 2.0		29					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
AS-37 2.0	4.75	0.10			0.0	54.2	45.8	

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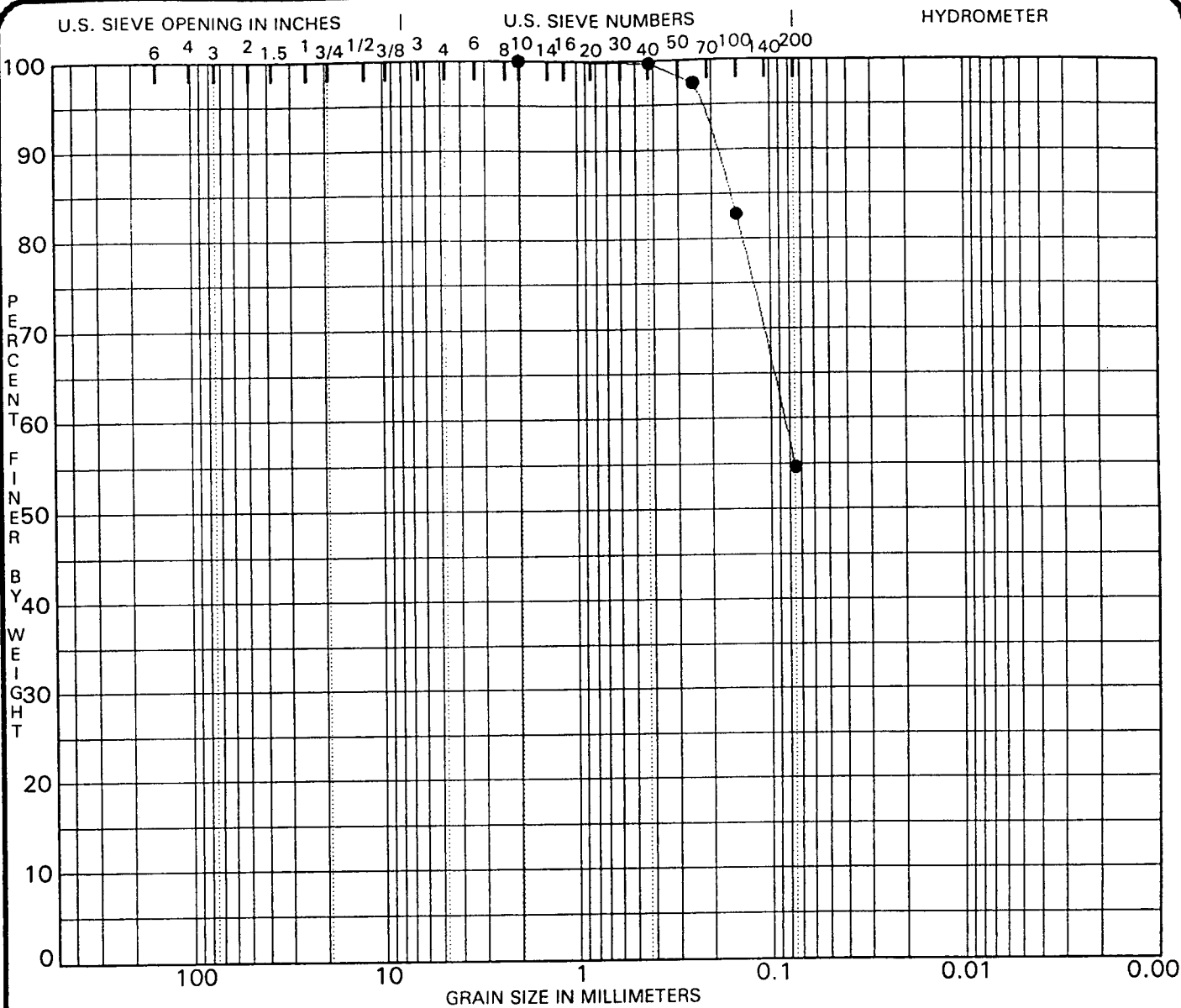
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-38 2.0		26					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-38 2.0	4.75	0.13			0.0	60.0	40.0	

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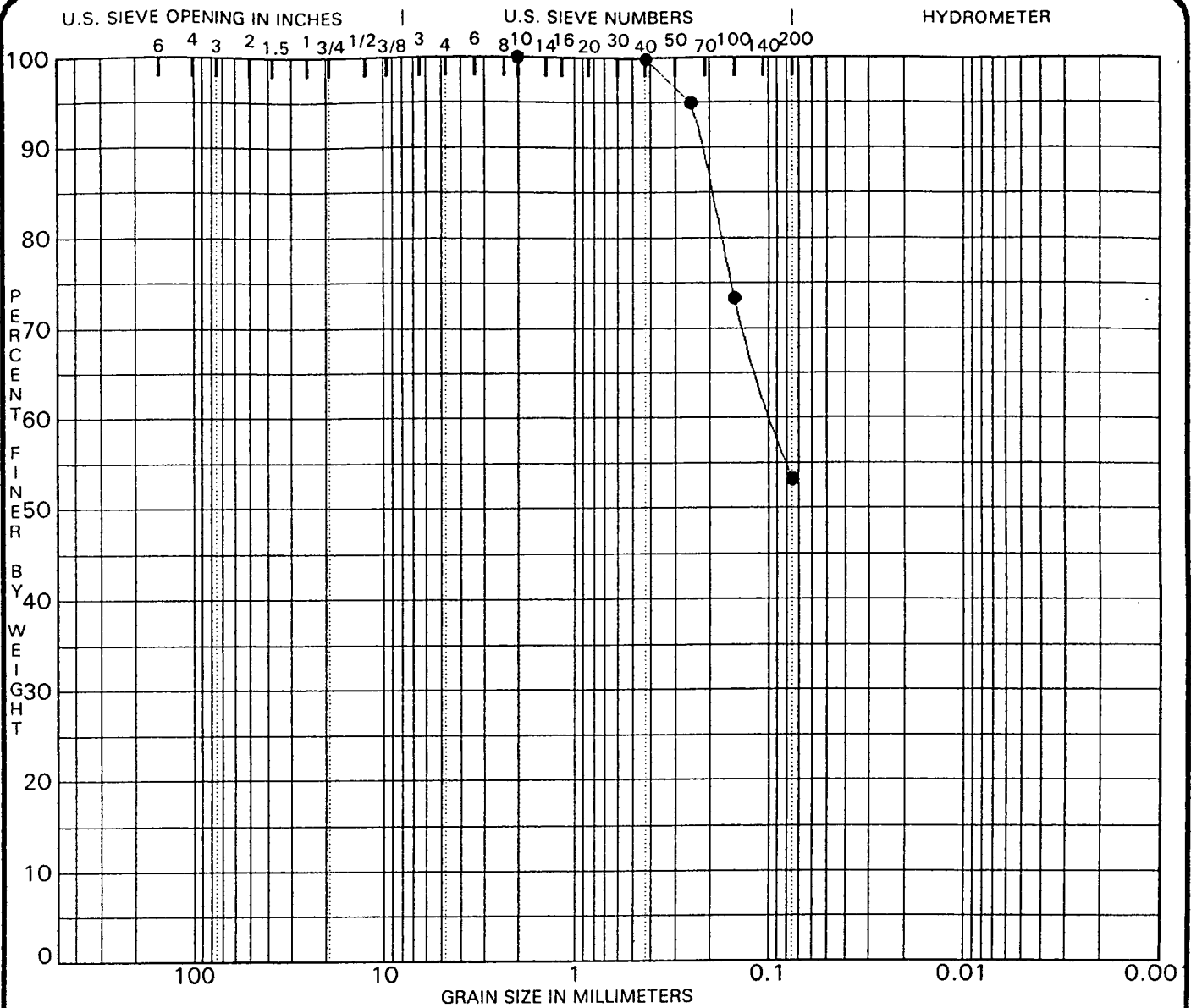
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-39 2.0		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-39 2.0	2.00	0.09			0.0	45.4	54.6	

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

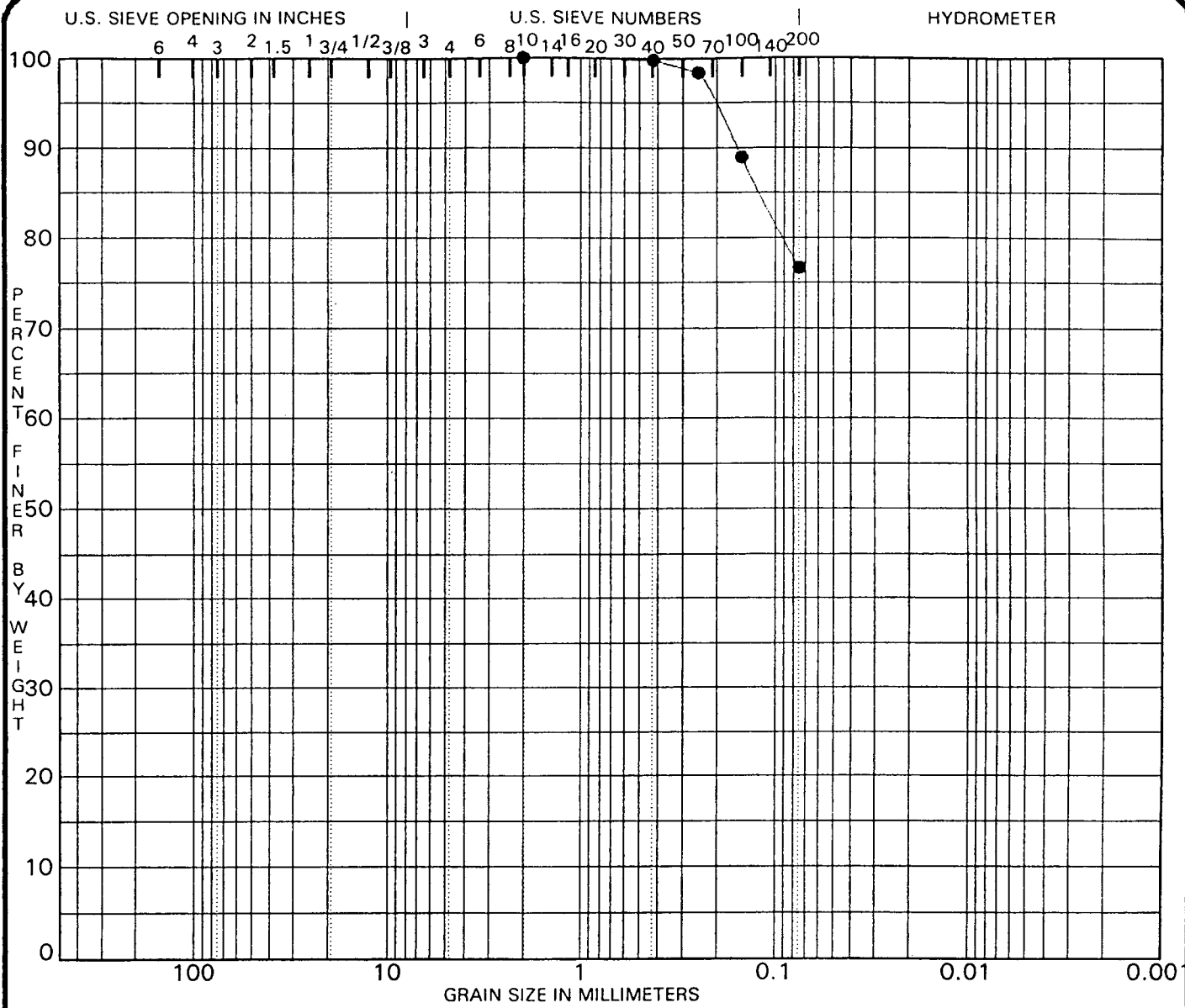
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-40 2.0		30					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-40 2.0	2.00	0.09			0.0	46.8	53.2	

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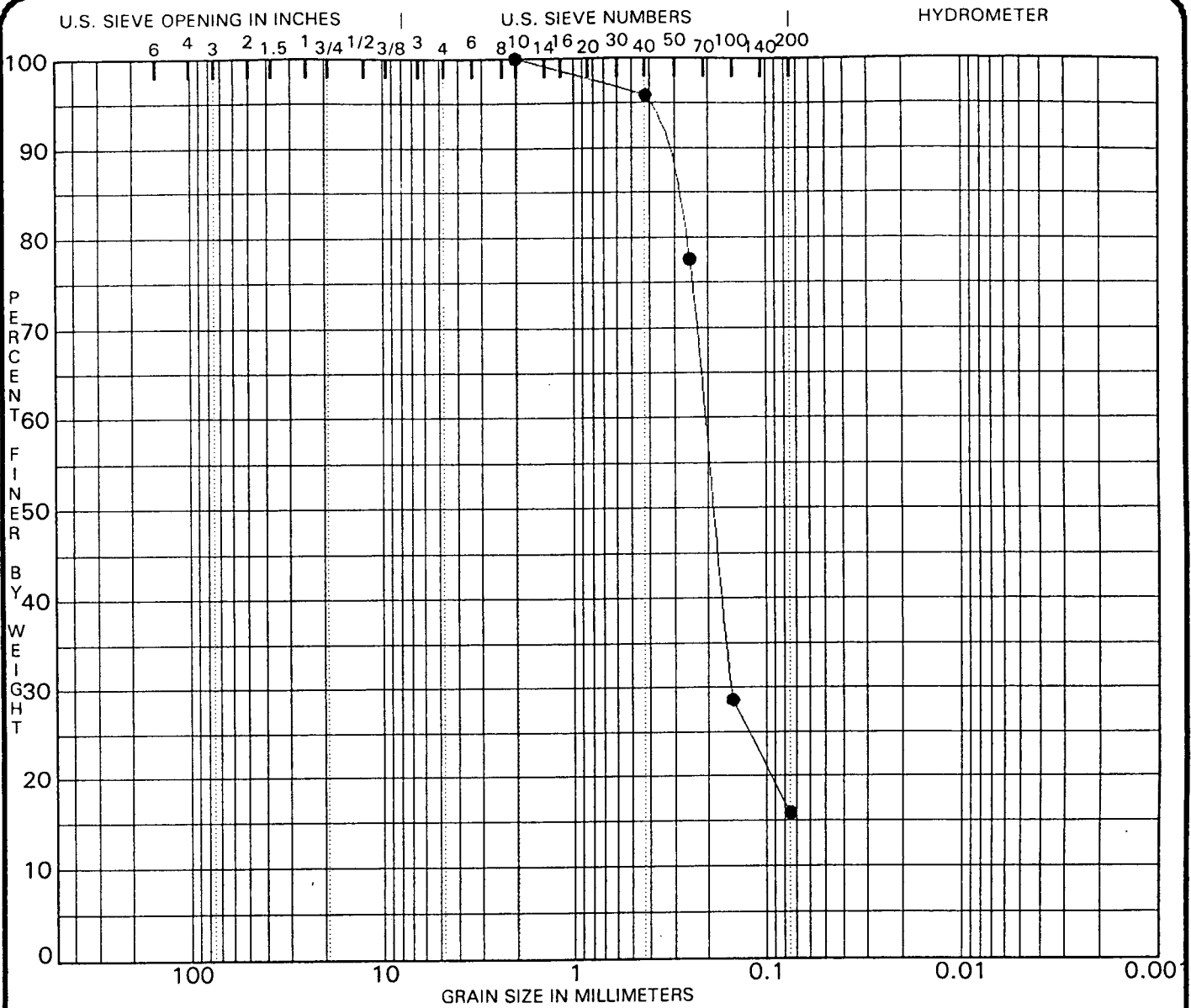
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-41 2.0		37					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-41 2.0	2.00				0.0	23.4	76.6	

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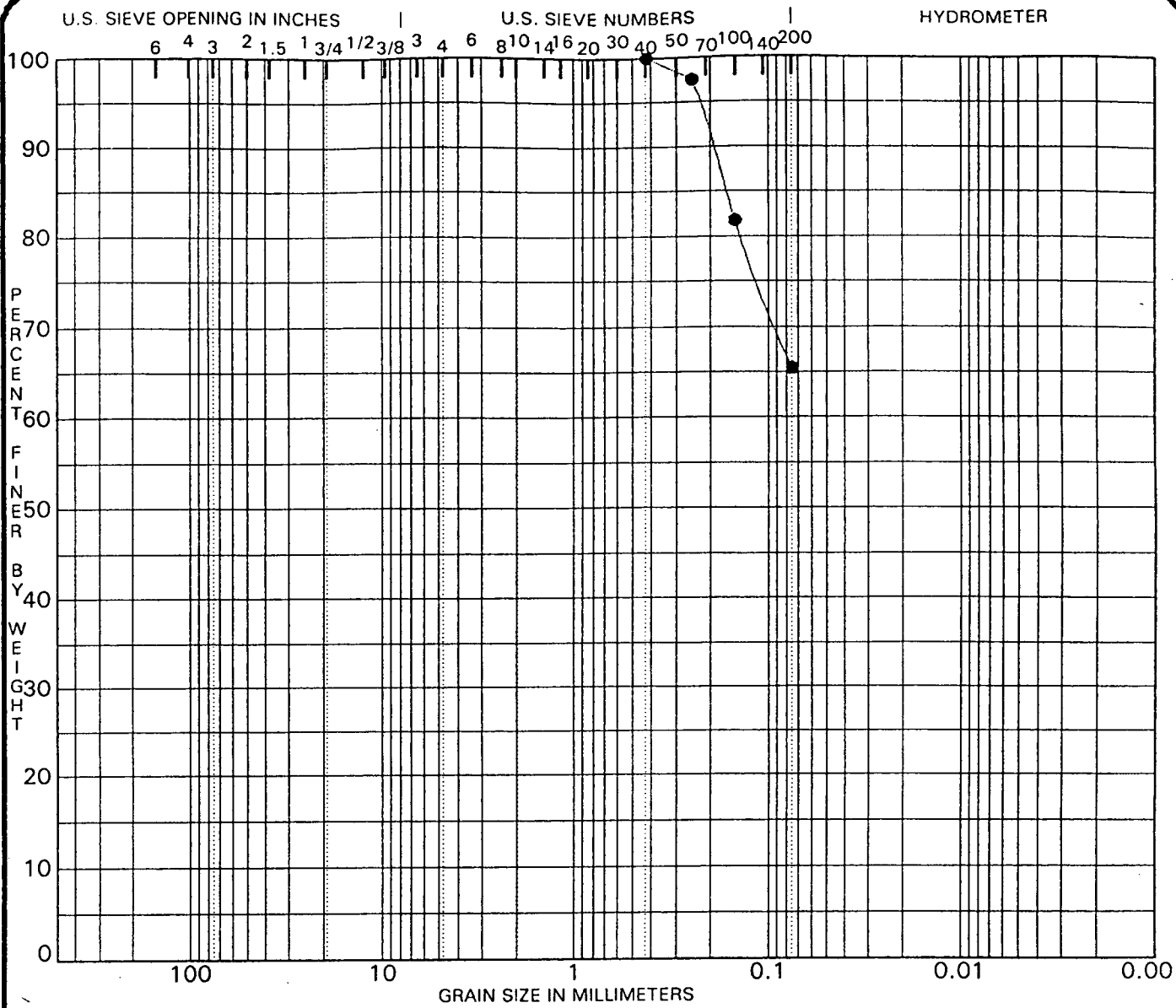
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-42 2.0		16					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-42 2.0	2.00	0.21	0.152		0.0	84.2	15.8	

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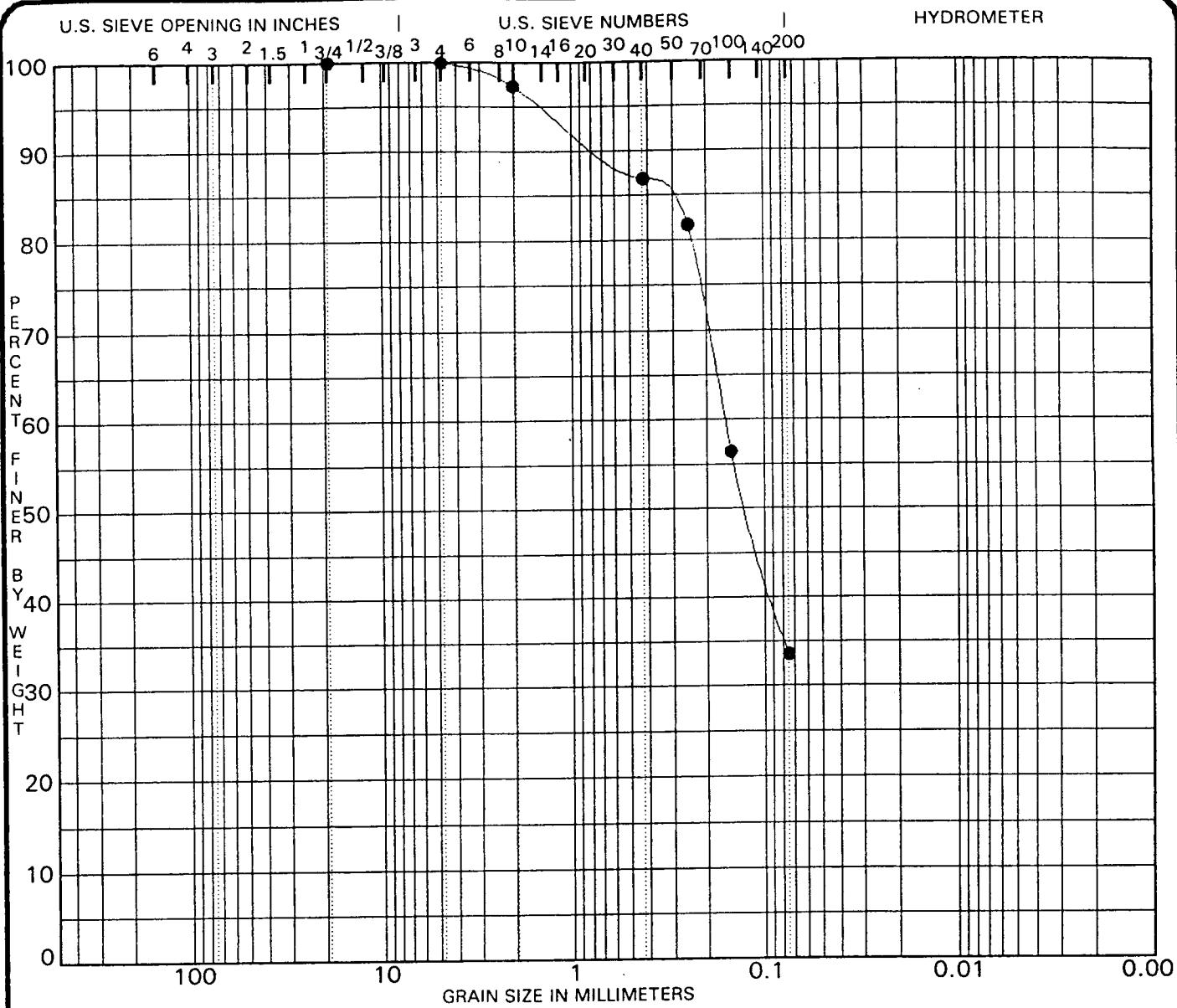
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-43 2.0		32					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-43 2.0	0.43				0.0	34.6	65.4	

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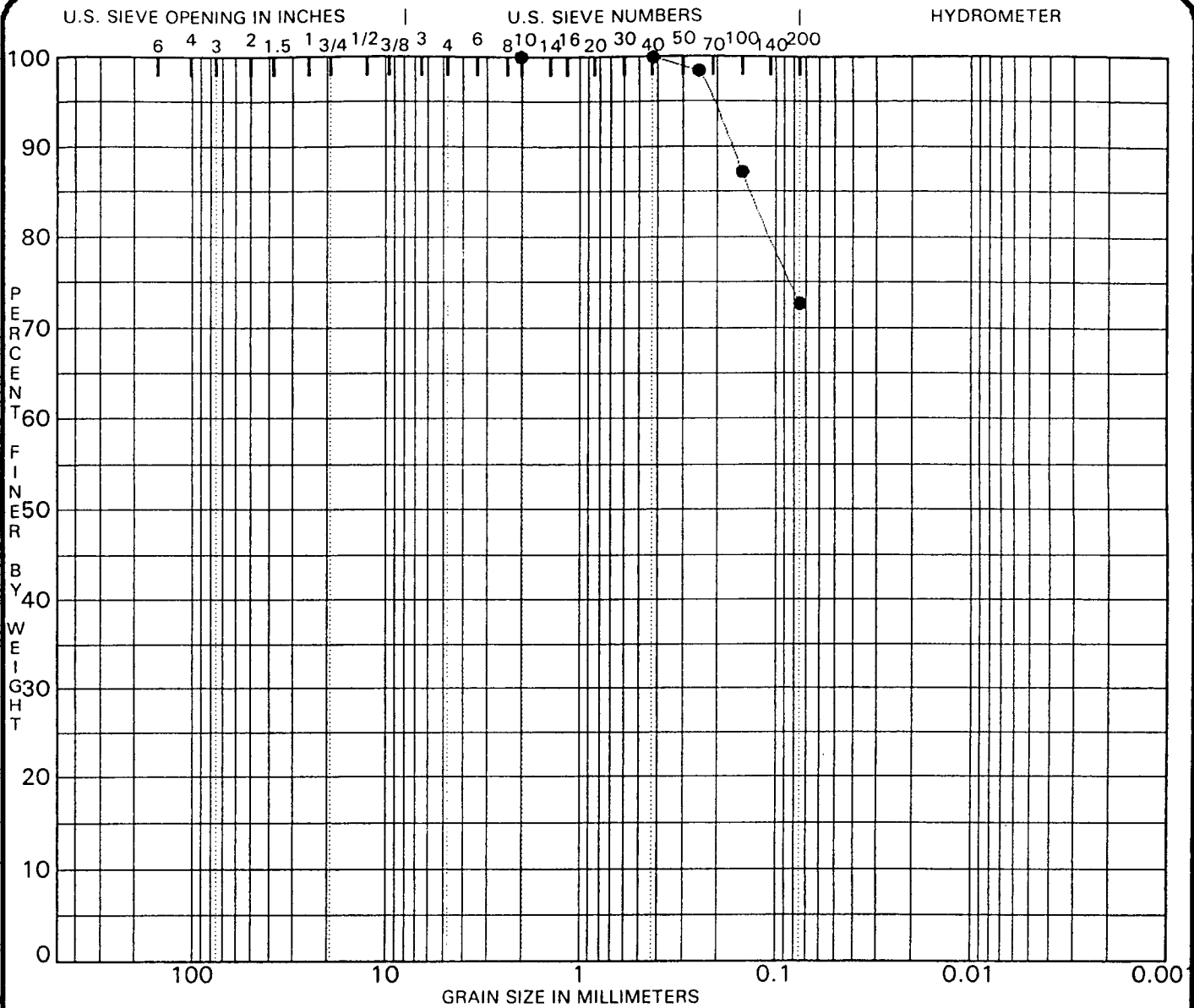
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-44 2.0		19					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-44 2.0	19.00	0.16			0.1	66.4	33.5	

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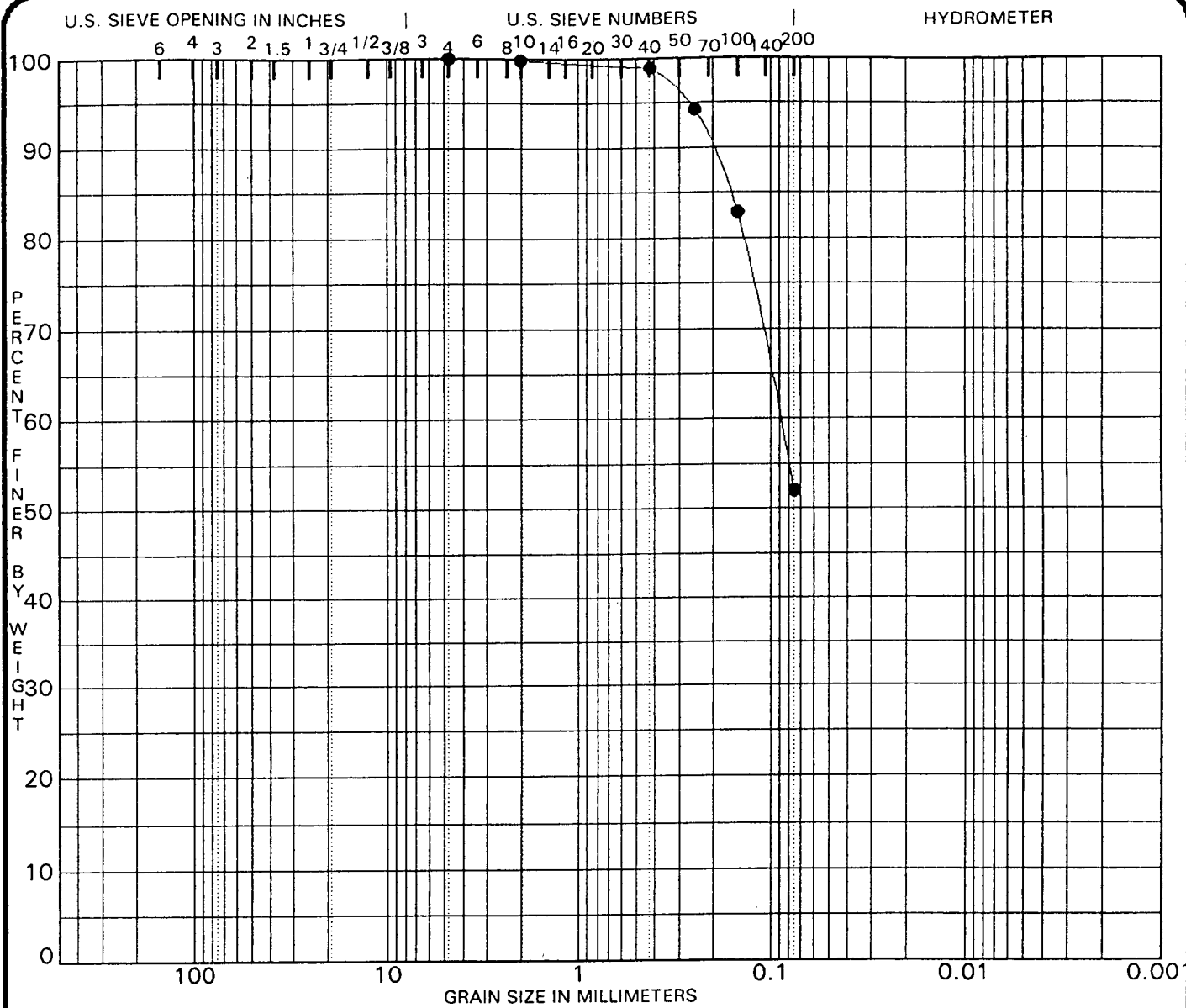
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-45 2.0		37					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-45 2.0	2.00				0.0	27.4	72.6	

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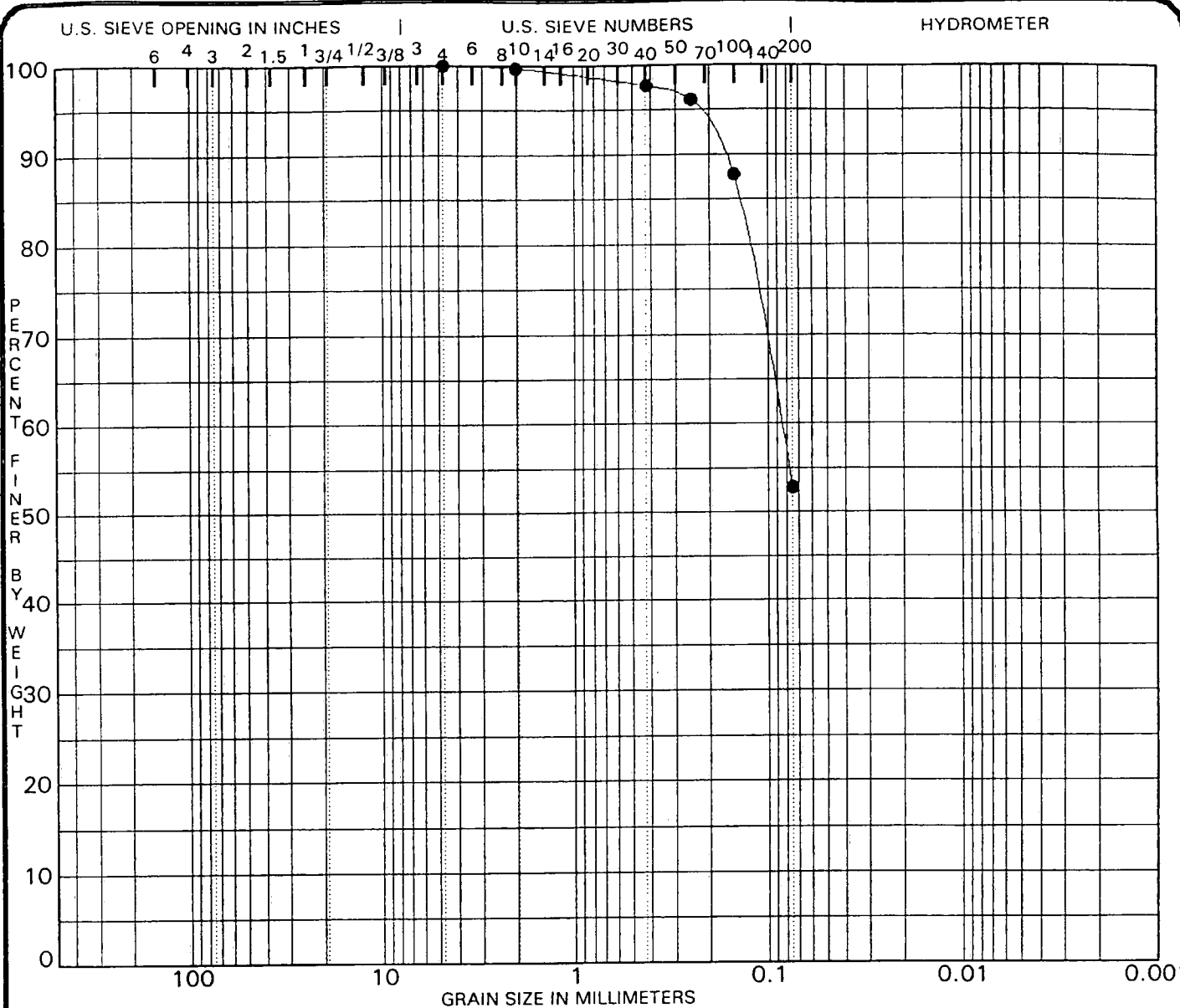
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-46 2.0		20					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-46 2.0	4.75	0.09			0.0	48.0	52.0	

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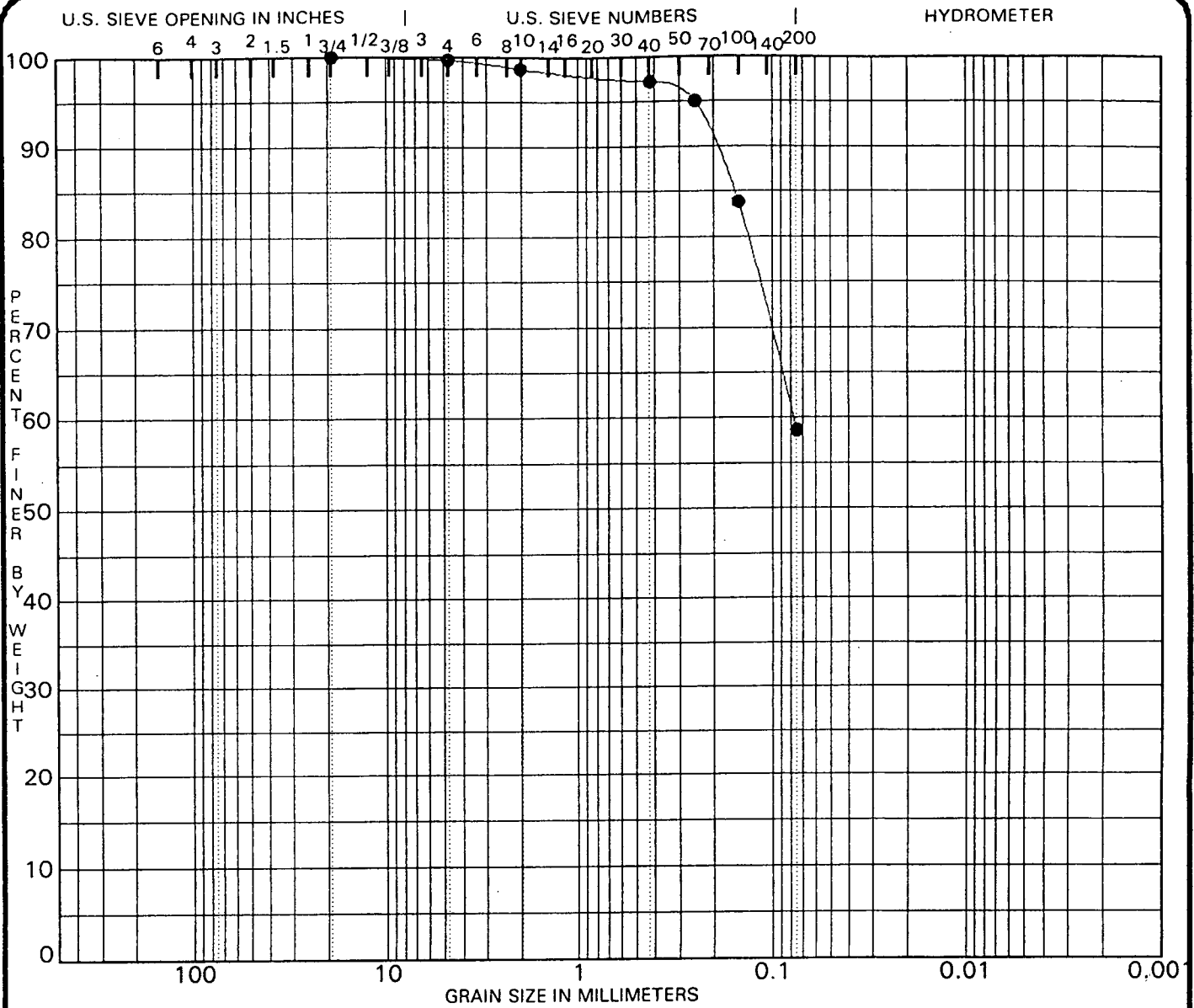
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● AS-47 2.0		36					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● AS-47 2.0	4.75	0.09			0.0	47.2	52.8	

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

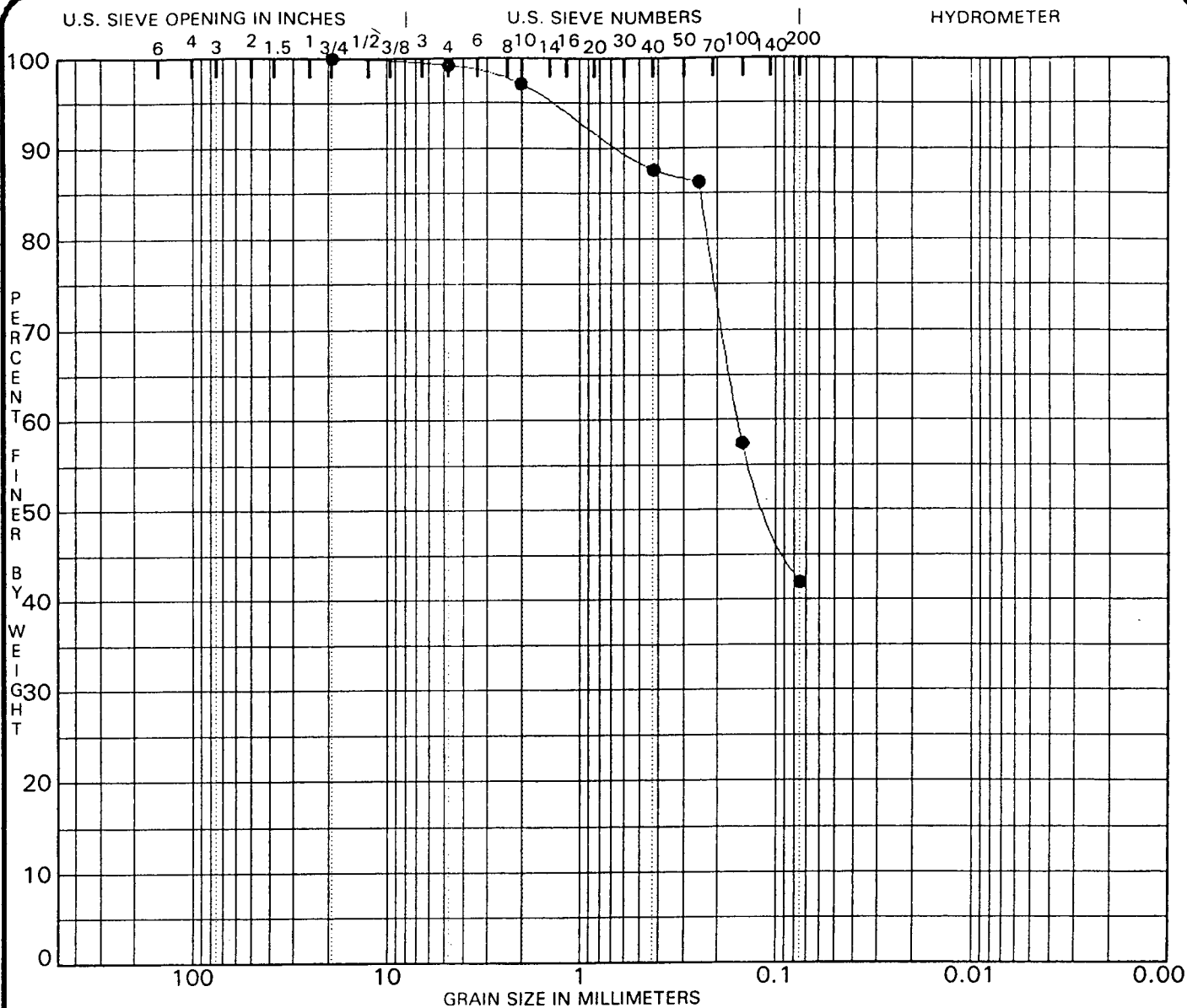
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-4 7.0		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-4 7.0	19.00	0.08			0.3	41.1	58.6	

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

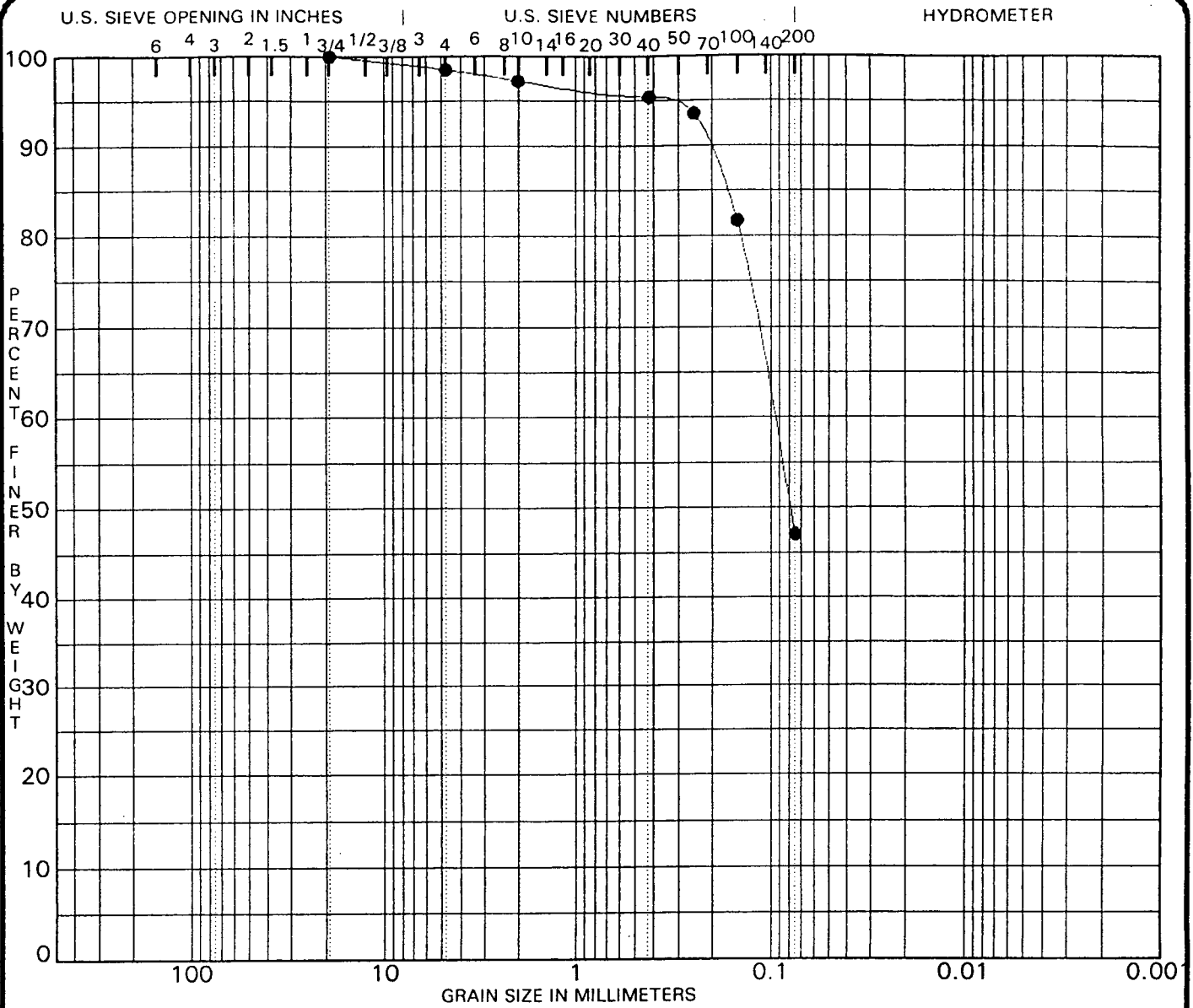
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-5 5.0		26					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-5 5.0	19.00	0.16			0.8	57.3	41.9	

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

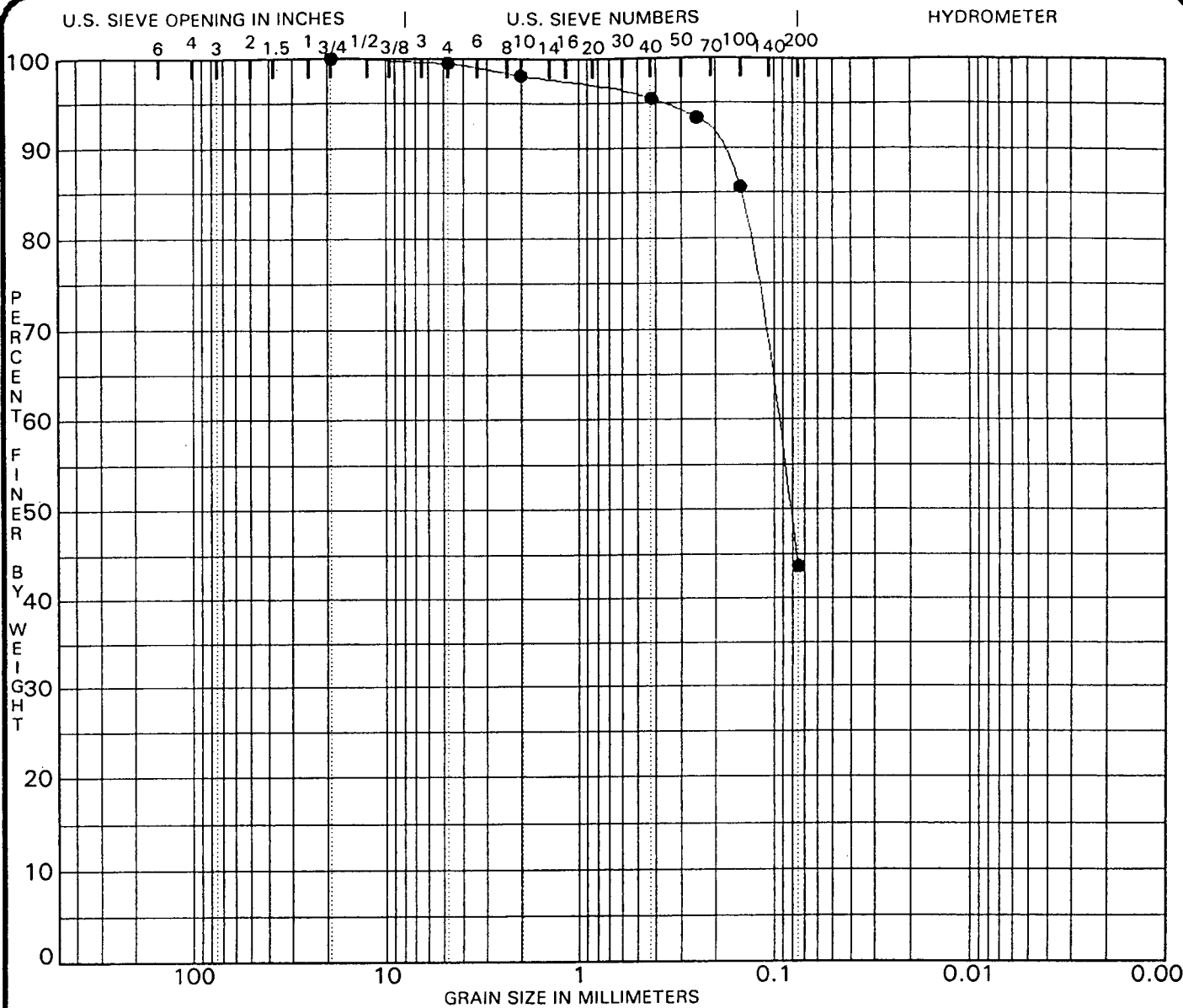
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-8 8.0		40					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-8 8.0	19.00	0.10			1.5	51.5	47.0	

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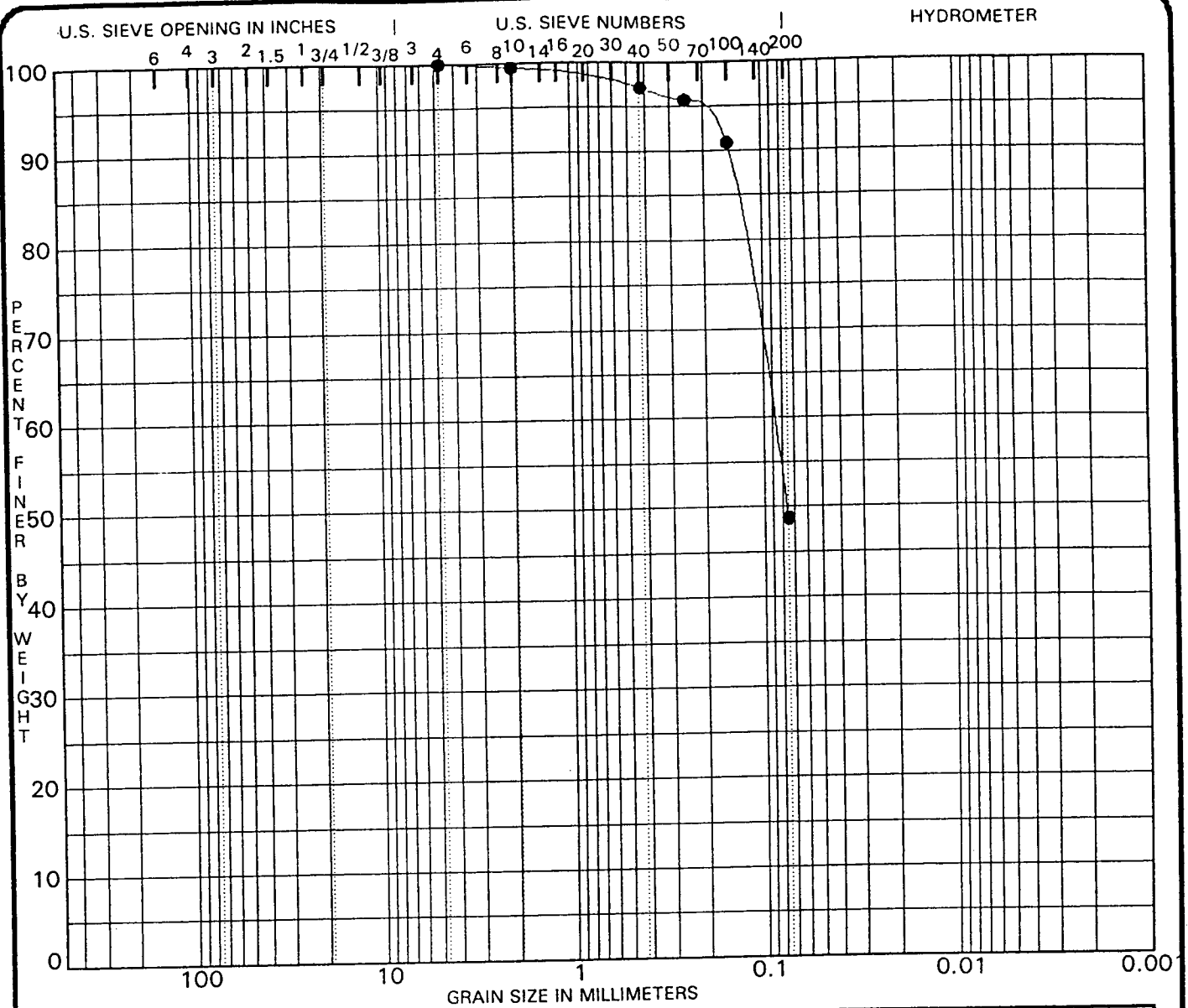
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

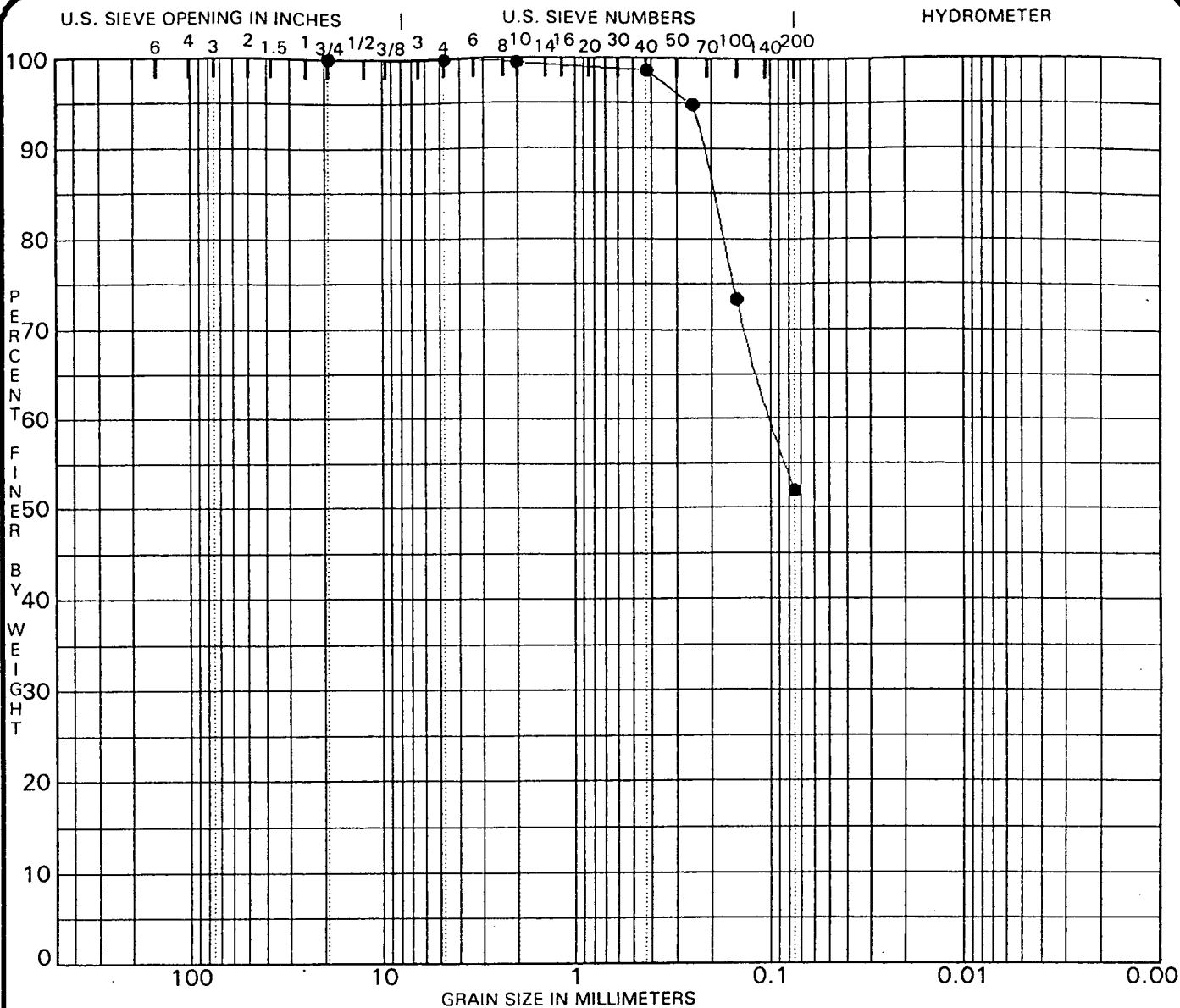
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-6 6.0		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-6 6.0	19.00	0.10			0.5	55.9	43.6	

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-9 4.0		42					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-9 4.0	19.00	0.10			0.2	47.9	51.9	

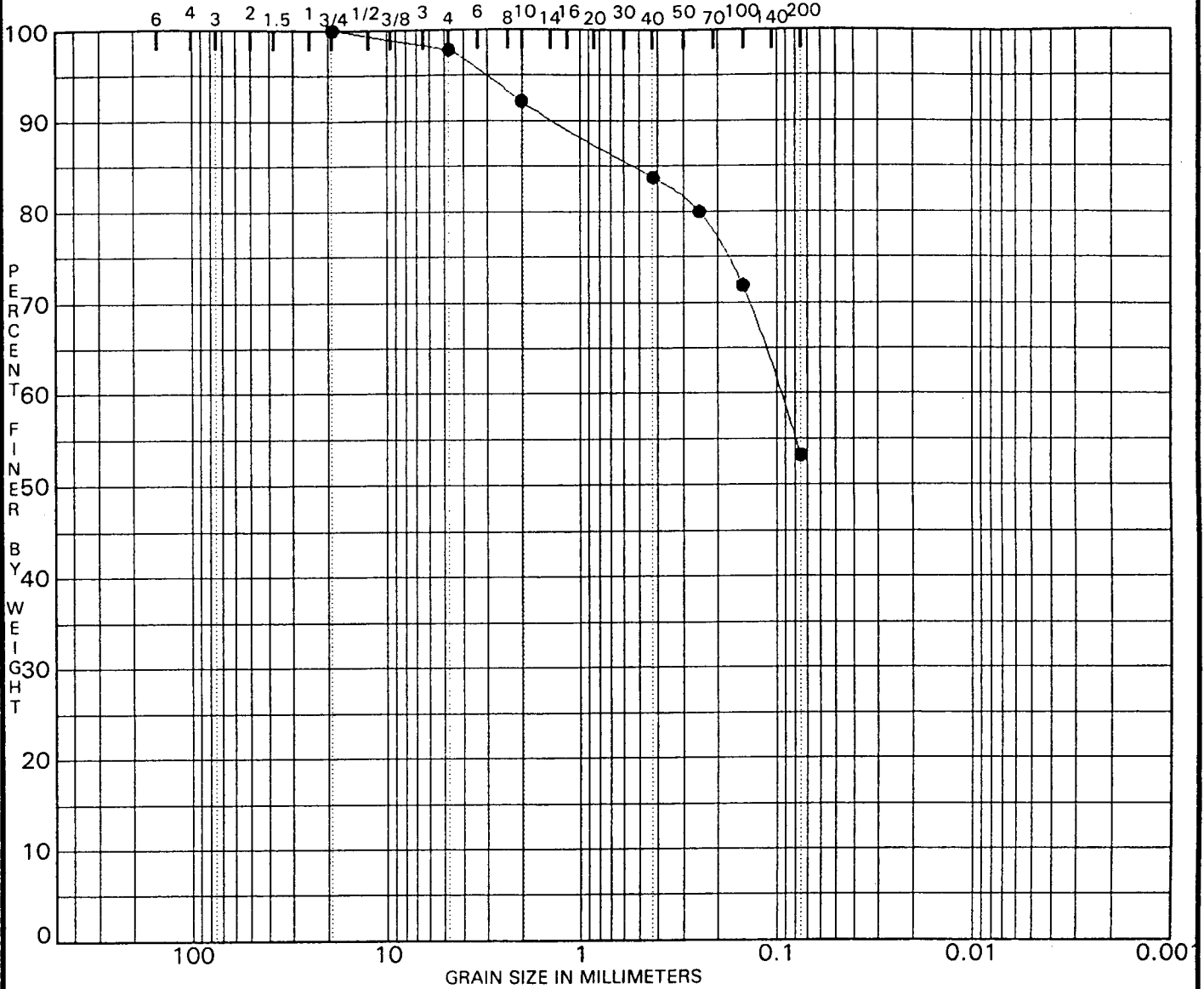
PROJECT ENTERPRISE ROAD LANDFILL - FL JOB NO. 99-0331-007/GK269
 DATE 8/18/03

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U.S. SIEVE OPENING IN INCHES

U.S. SIEVE NUMBERS

HYDROMETER



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-10 4.0		32					

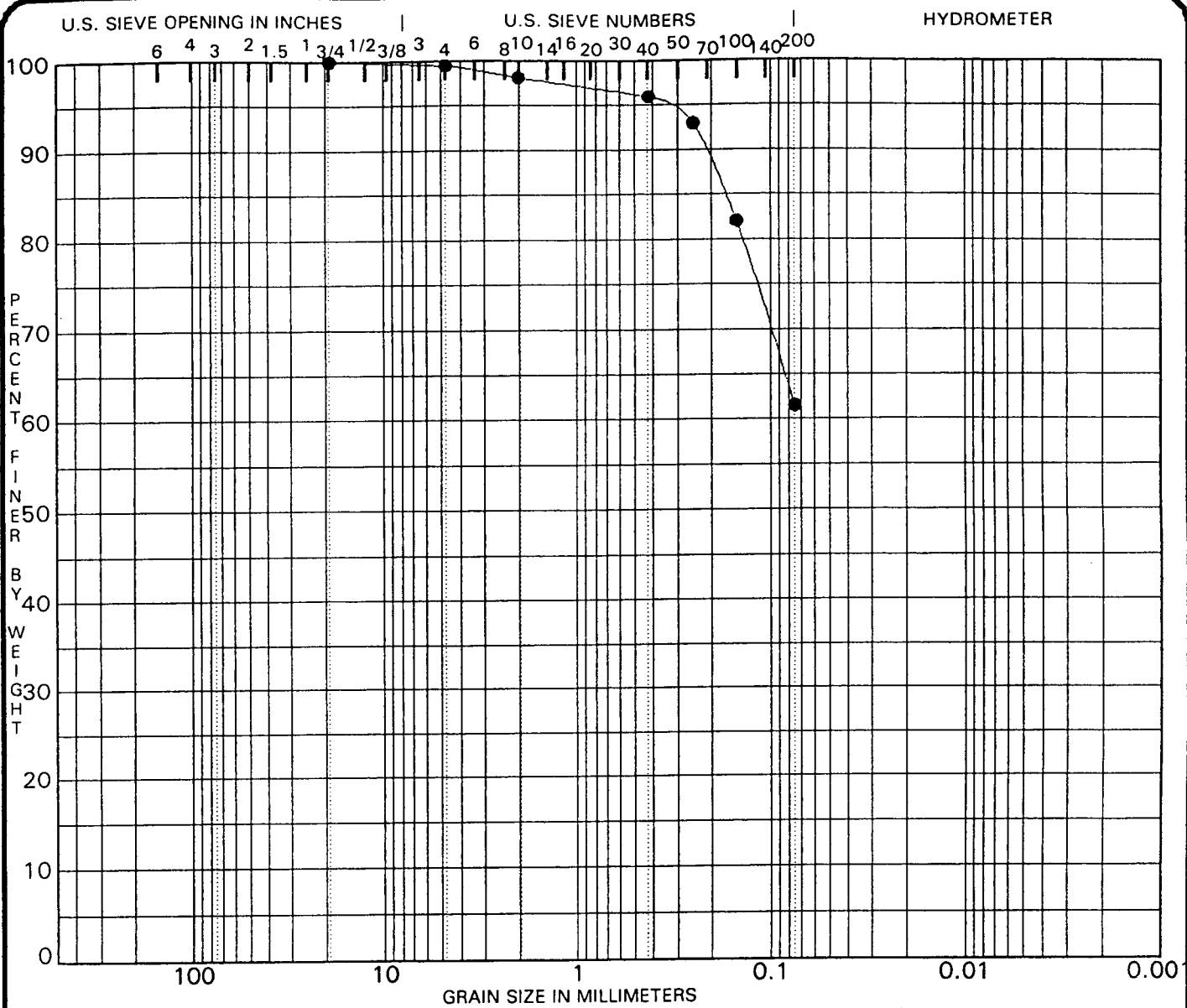
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-10 4.0	19.00	0.10			2.2	44.6	53.2	

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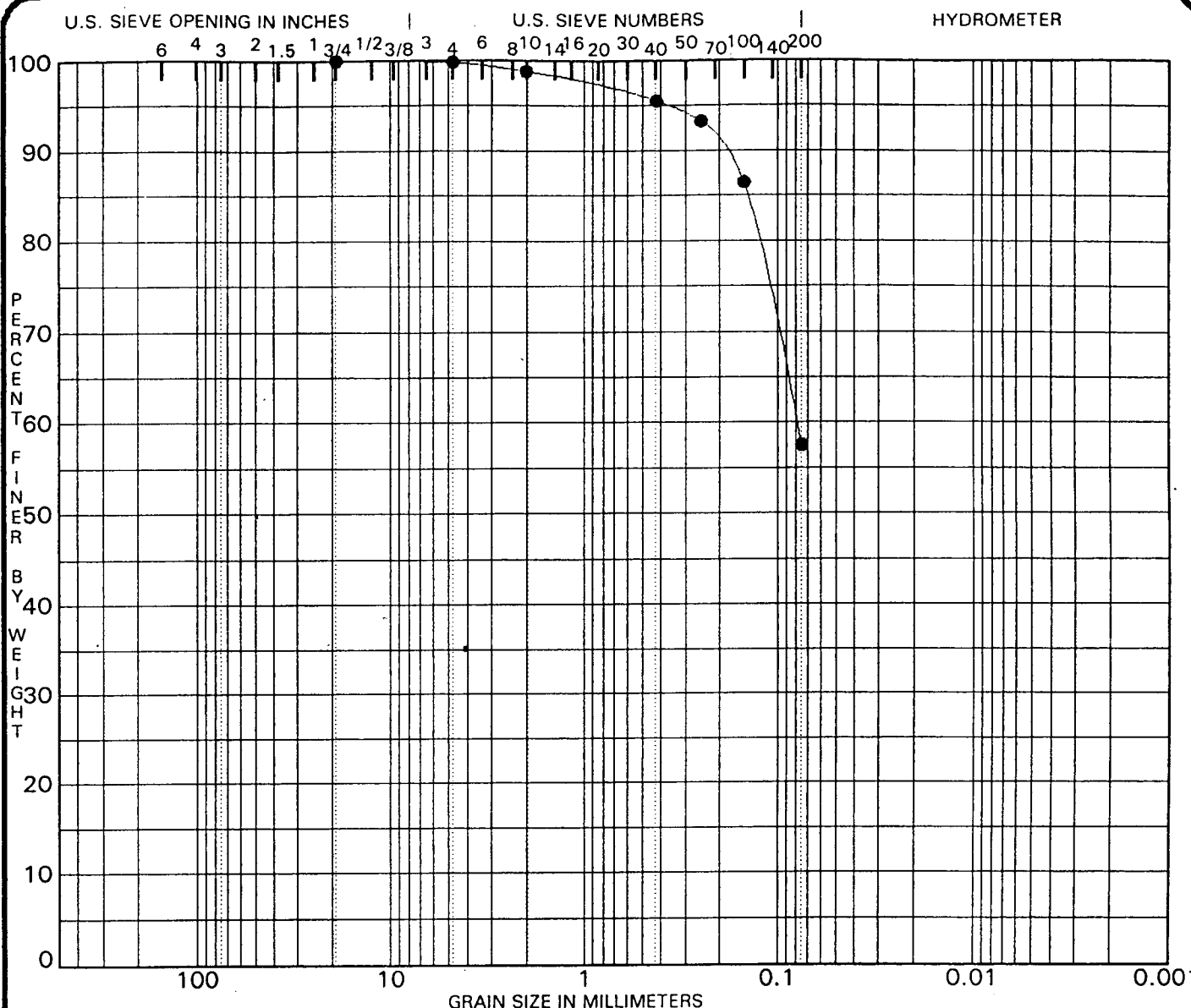
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-11 6.0		30					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-11 6.0	19.00				0.5	38.0	61.5	

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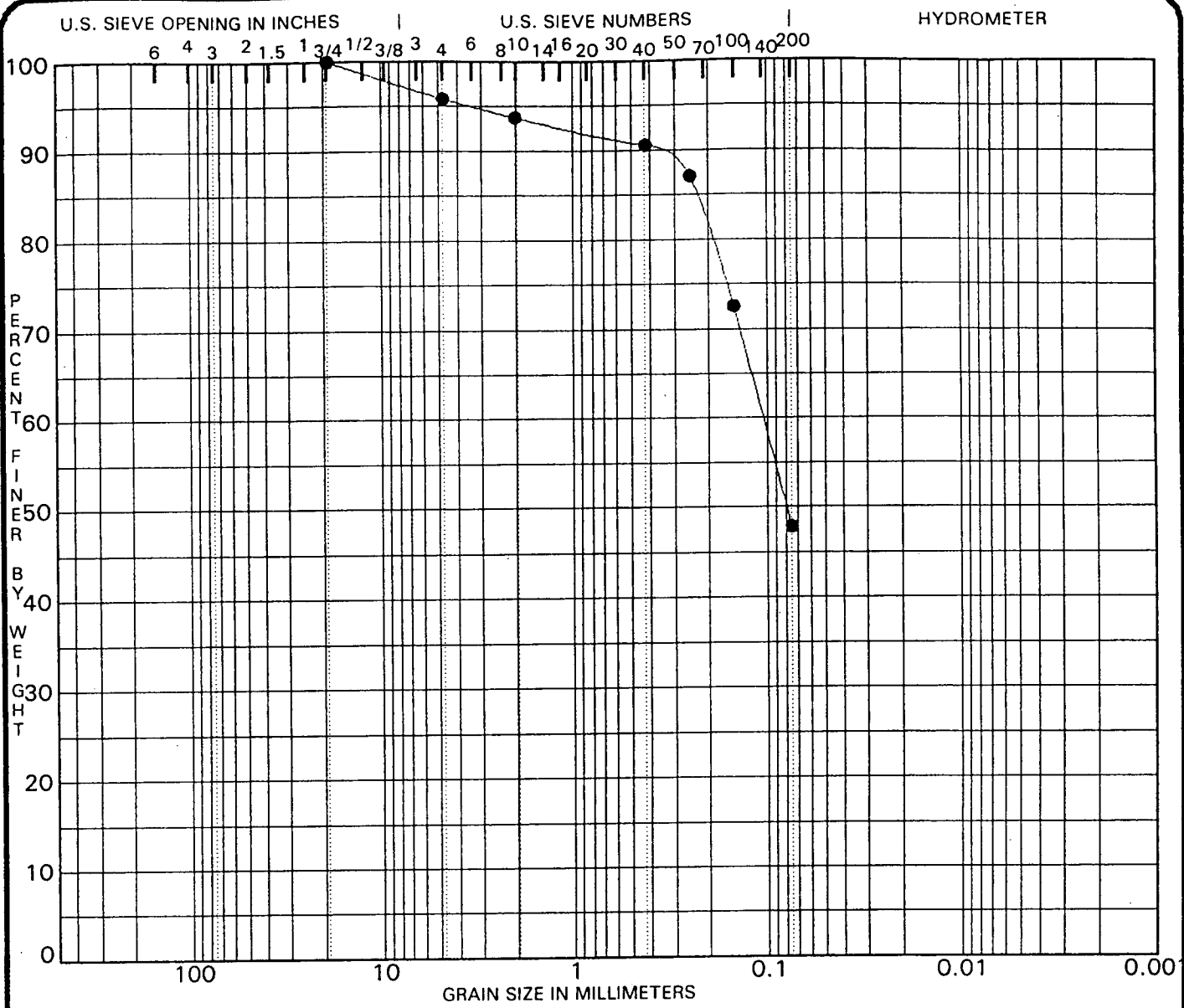
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-11 9.0		35					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-11 9.0	19.00	0.08			0.2	42.3	57.5	

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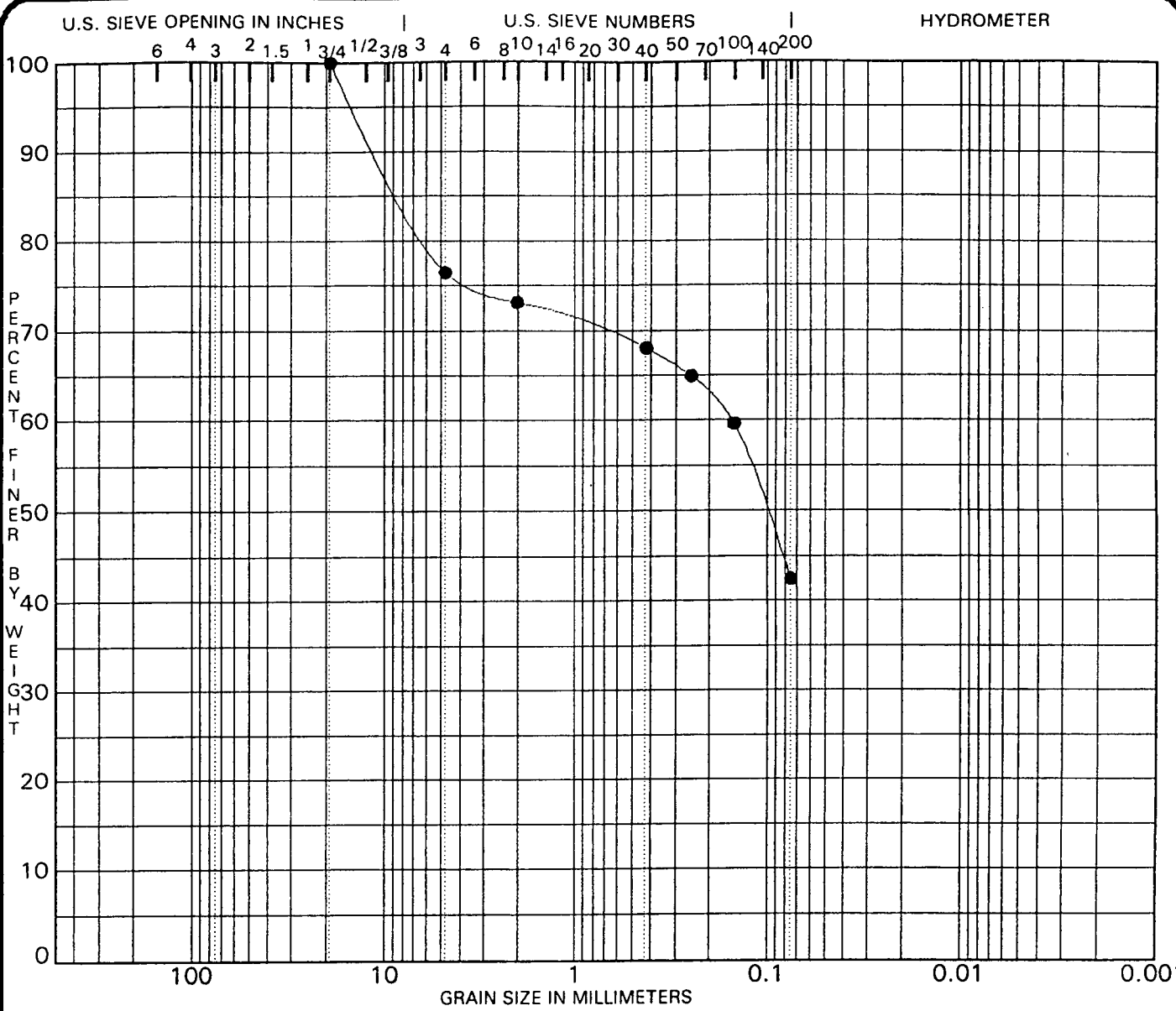
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-11 11.0		29					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-11 11.0	19.00	0.11			4.2	48.0	47.8	

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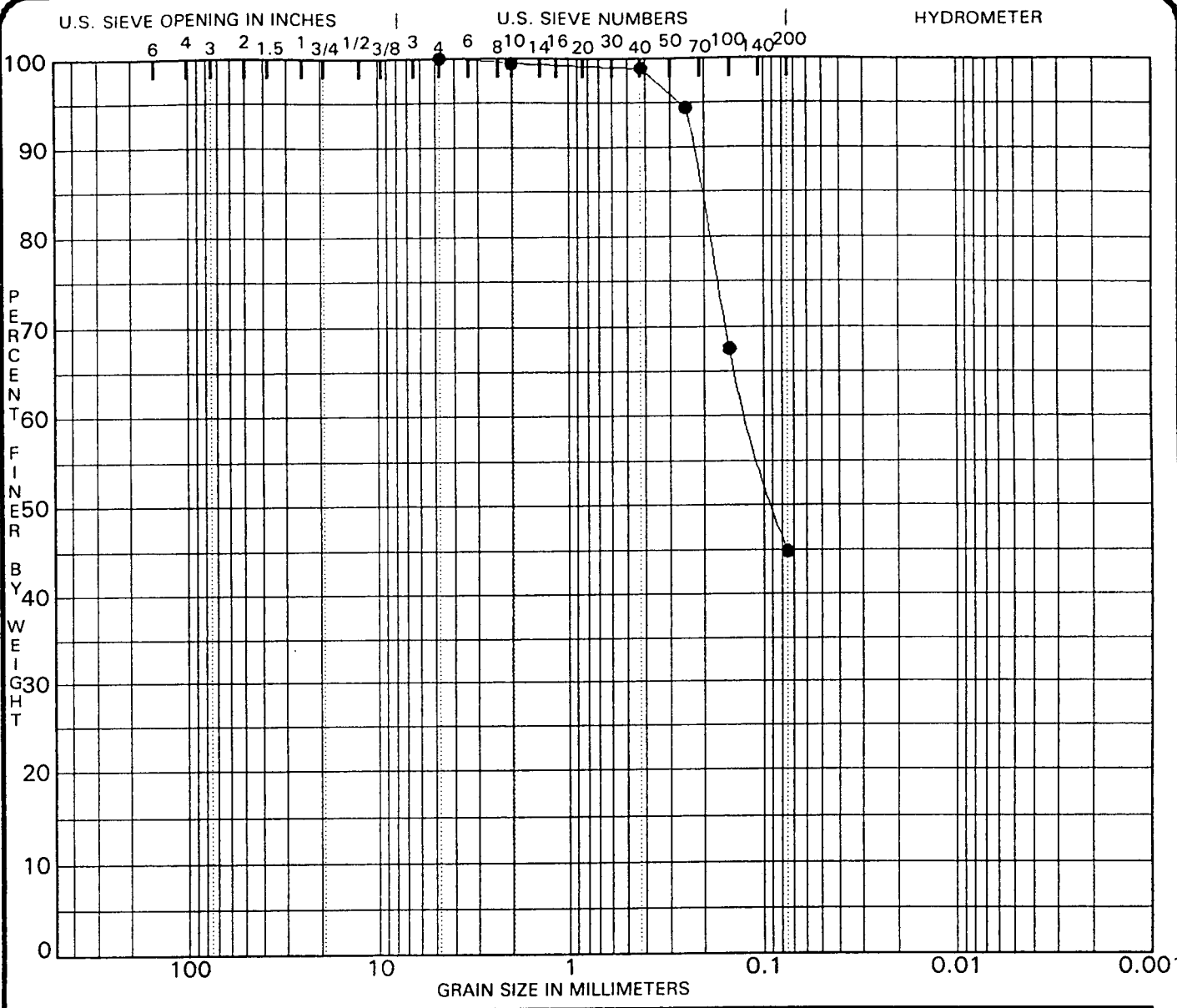
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-11 14.0		37					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-11 14.0	19.00	0.16			23.6	34.0	42.4	

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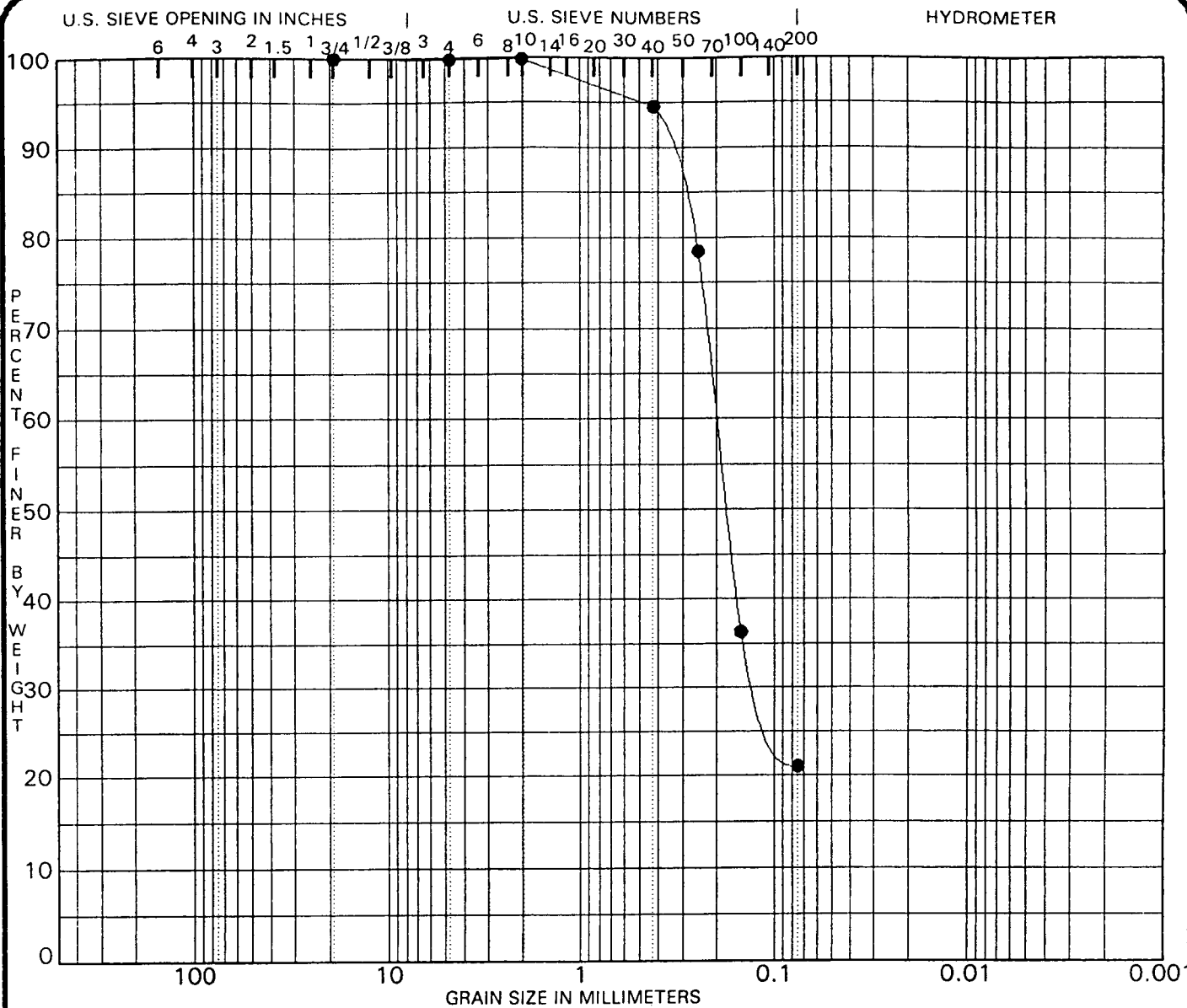
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-12 6.0		21					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-12 6.0	4.75	0.12			0.0	55.2	44.8	

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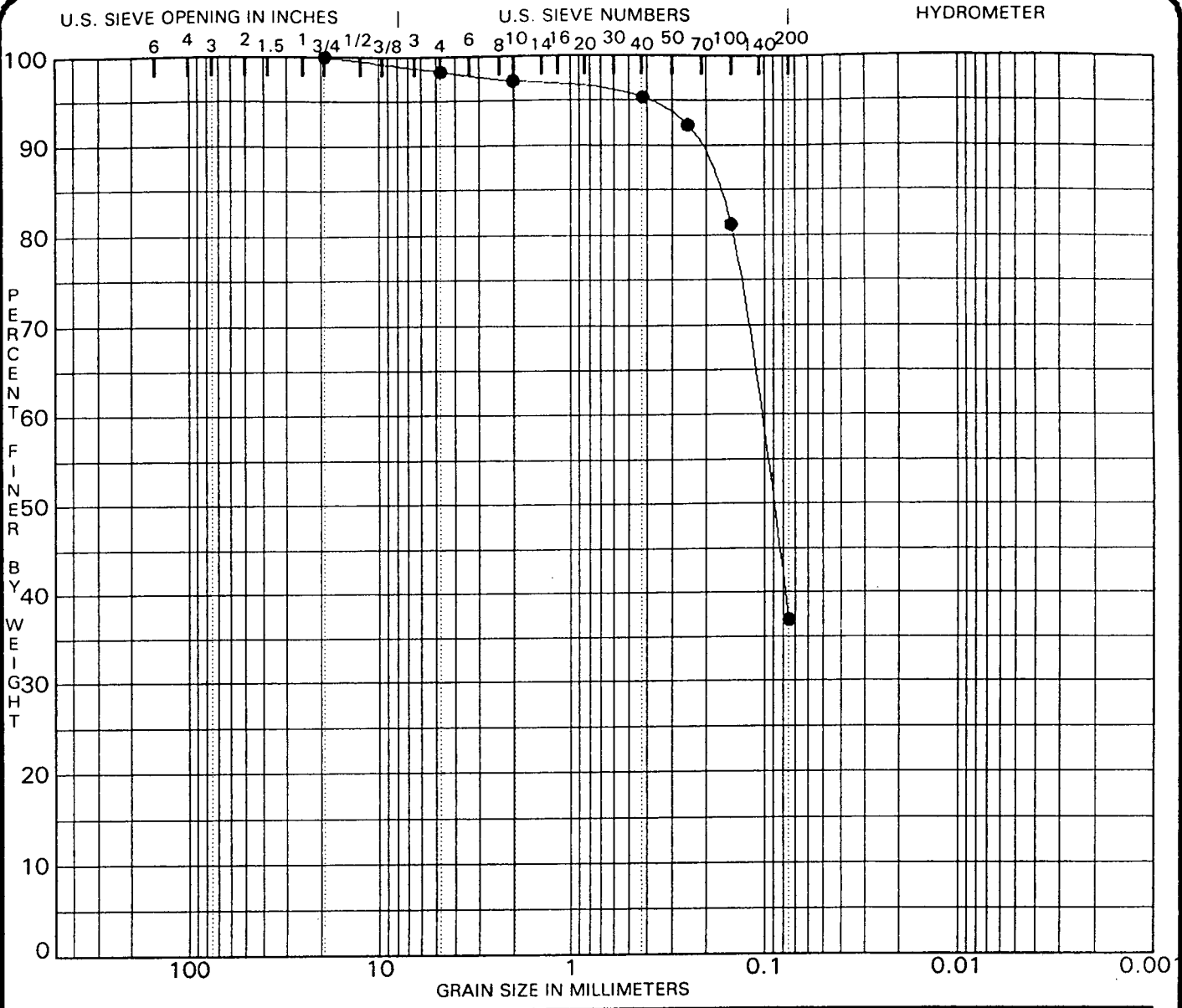
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-13 24.0		18					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-13 24.0	19.00	0.20	0.113		0.2	78.8	21.0	

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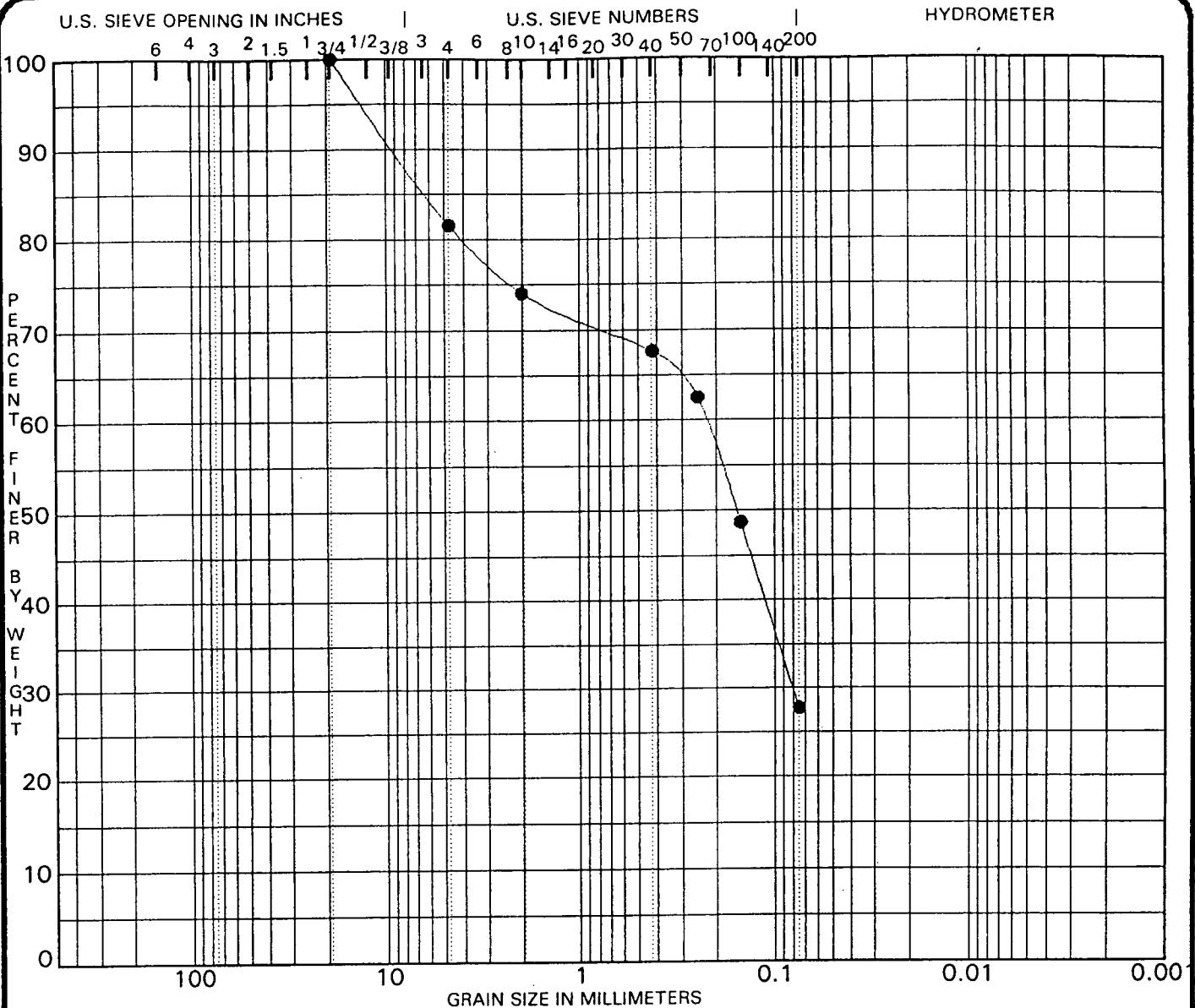
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-14 24.0		24					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-14 24.0	19.00	0.11			1.7	61.4	36.9	

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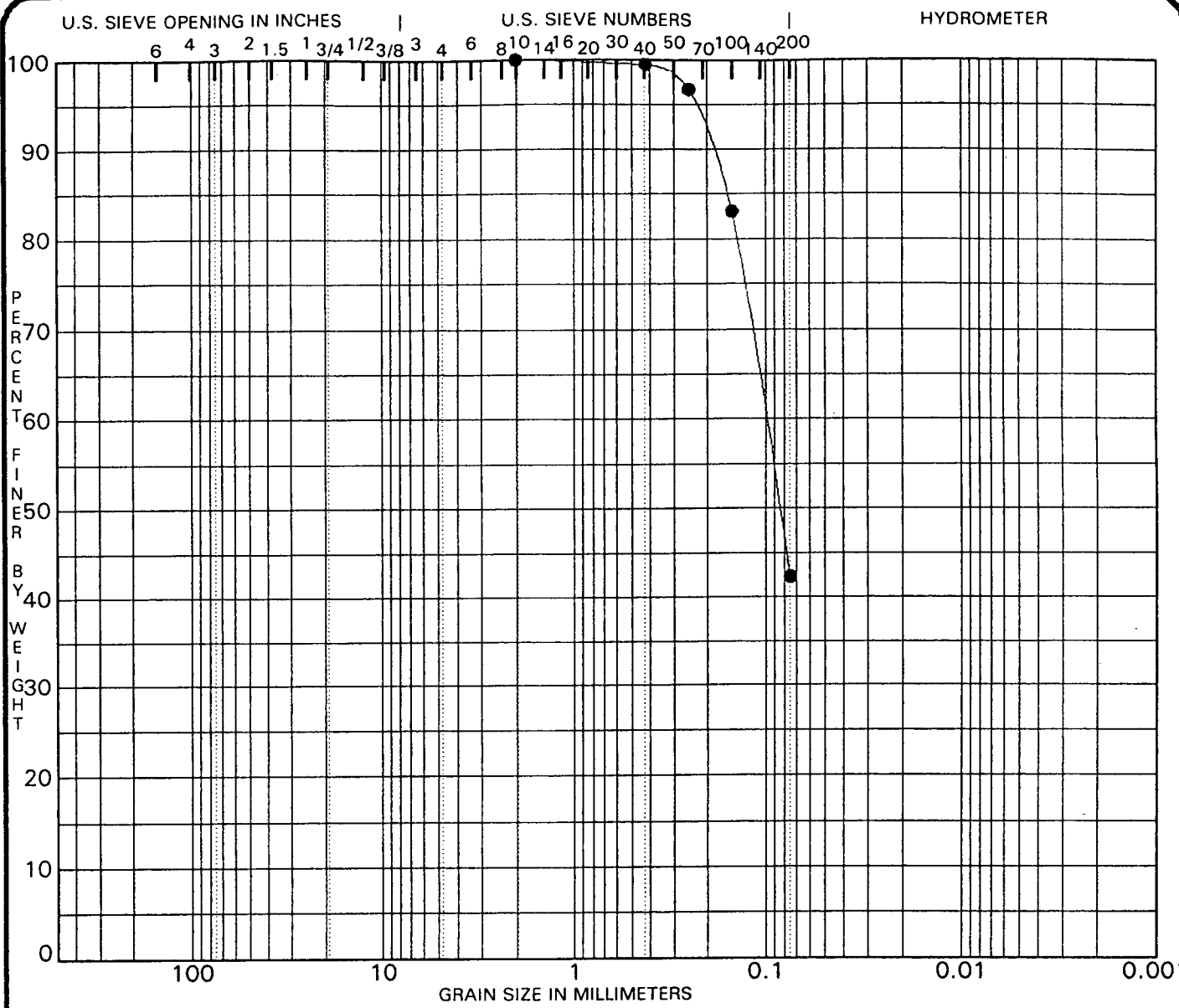
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-14 29.0		36					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-14 29.0	19.00	0.23	0.081		18.5	53.8	27.7	

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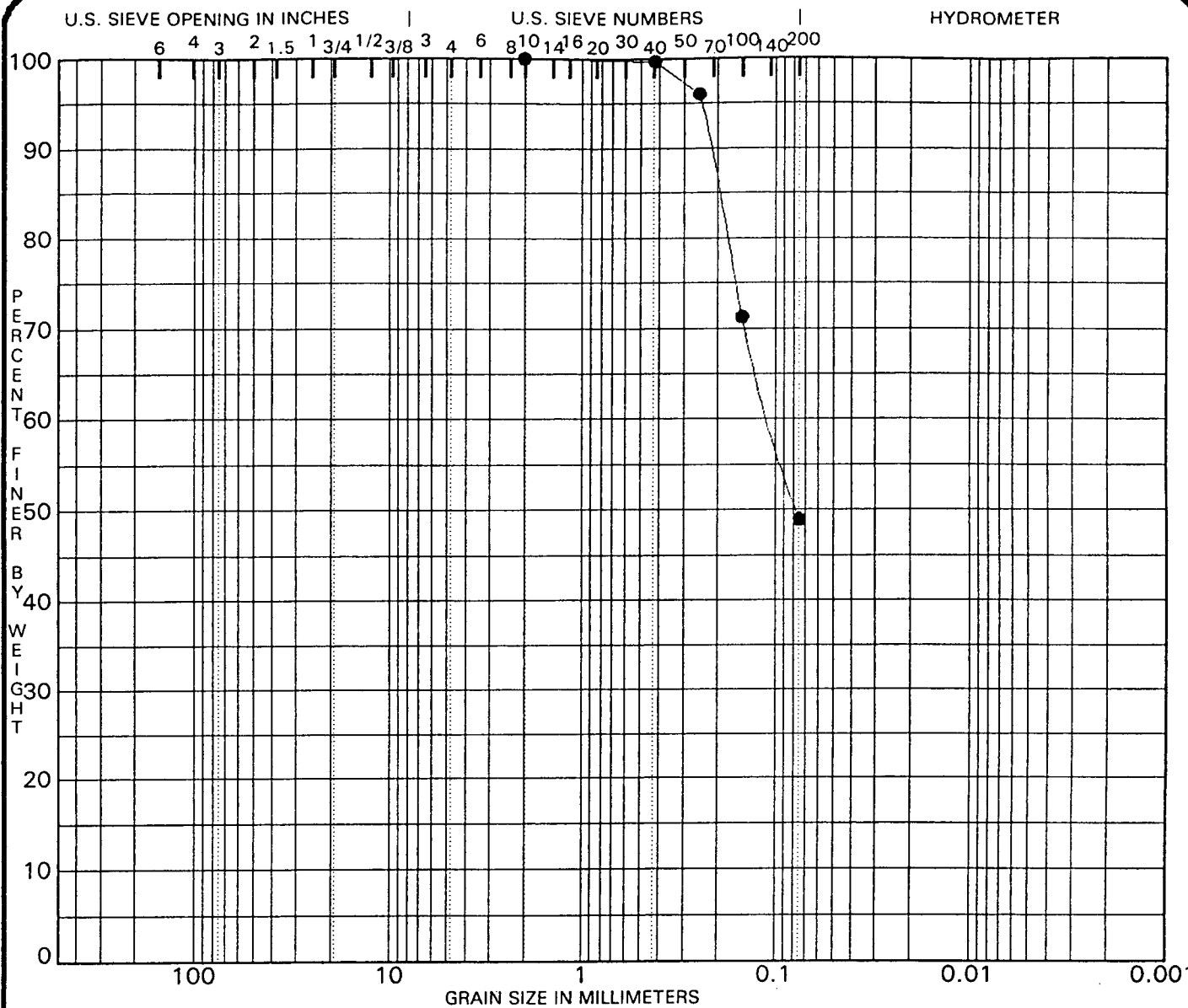


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-15 24.0		28					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-15 24.0	2.00	0.10			0.0	57.7	42.3	

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 DATE 8/18/03



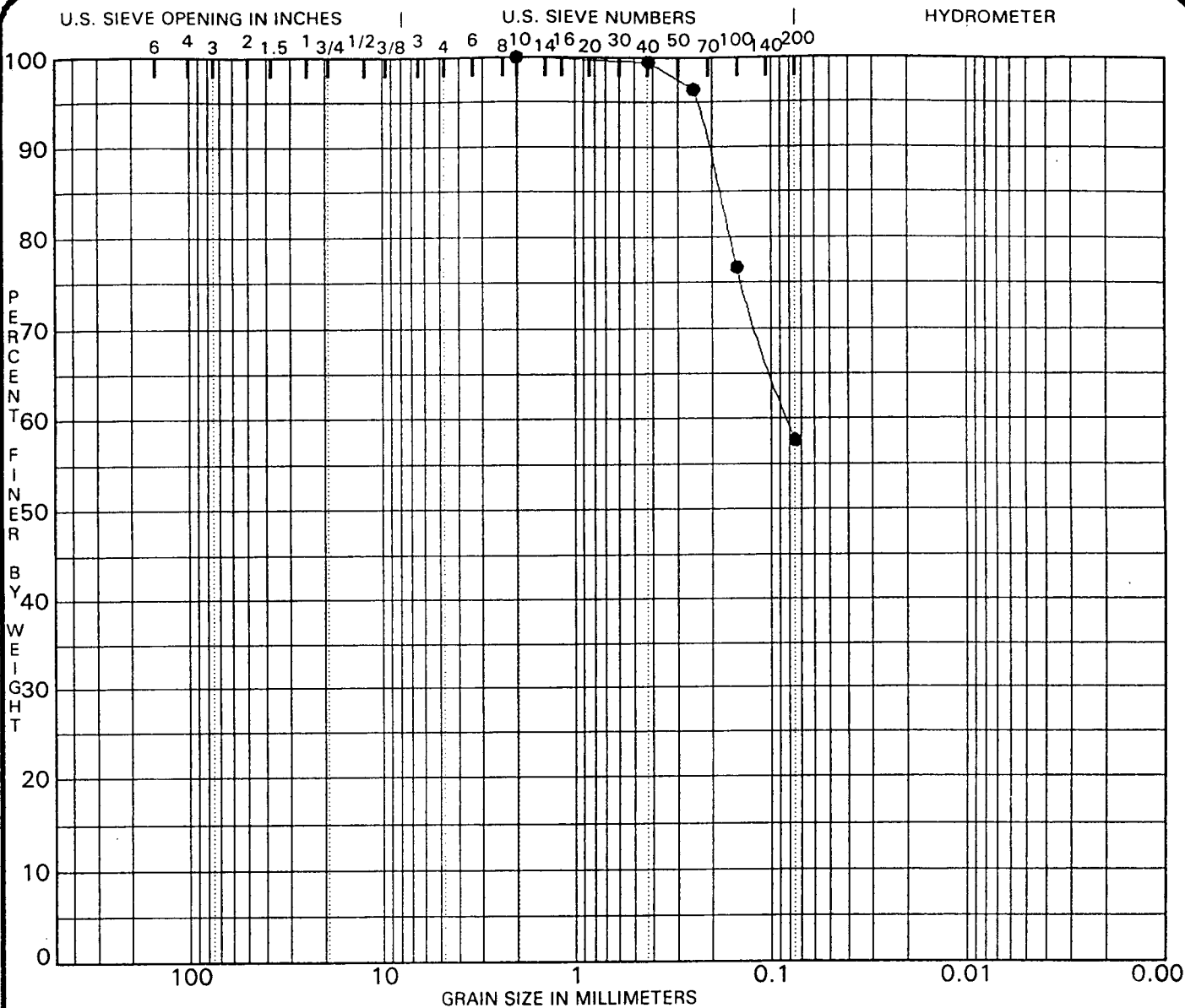
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-16 20.0		37					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-16 20.0	2.00	0.11			0.0	51.1	48.9	

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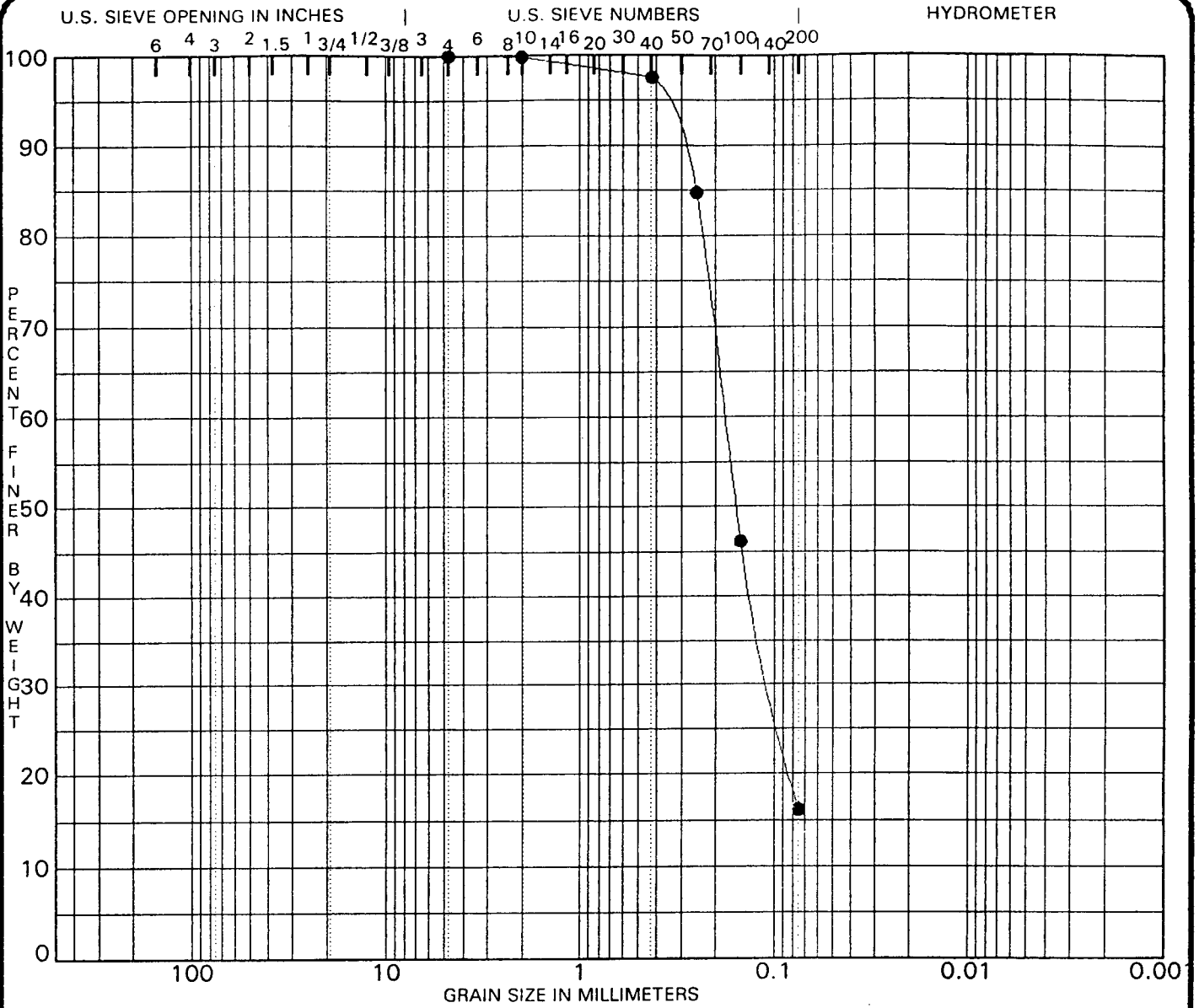
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-16 24.0		26					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-16 24.0	2.00	0.08			0.0	42.4	57.6	

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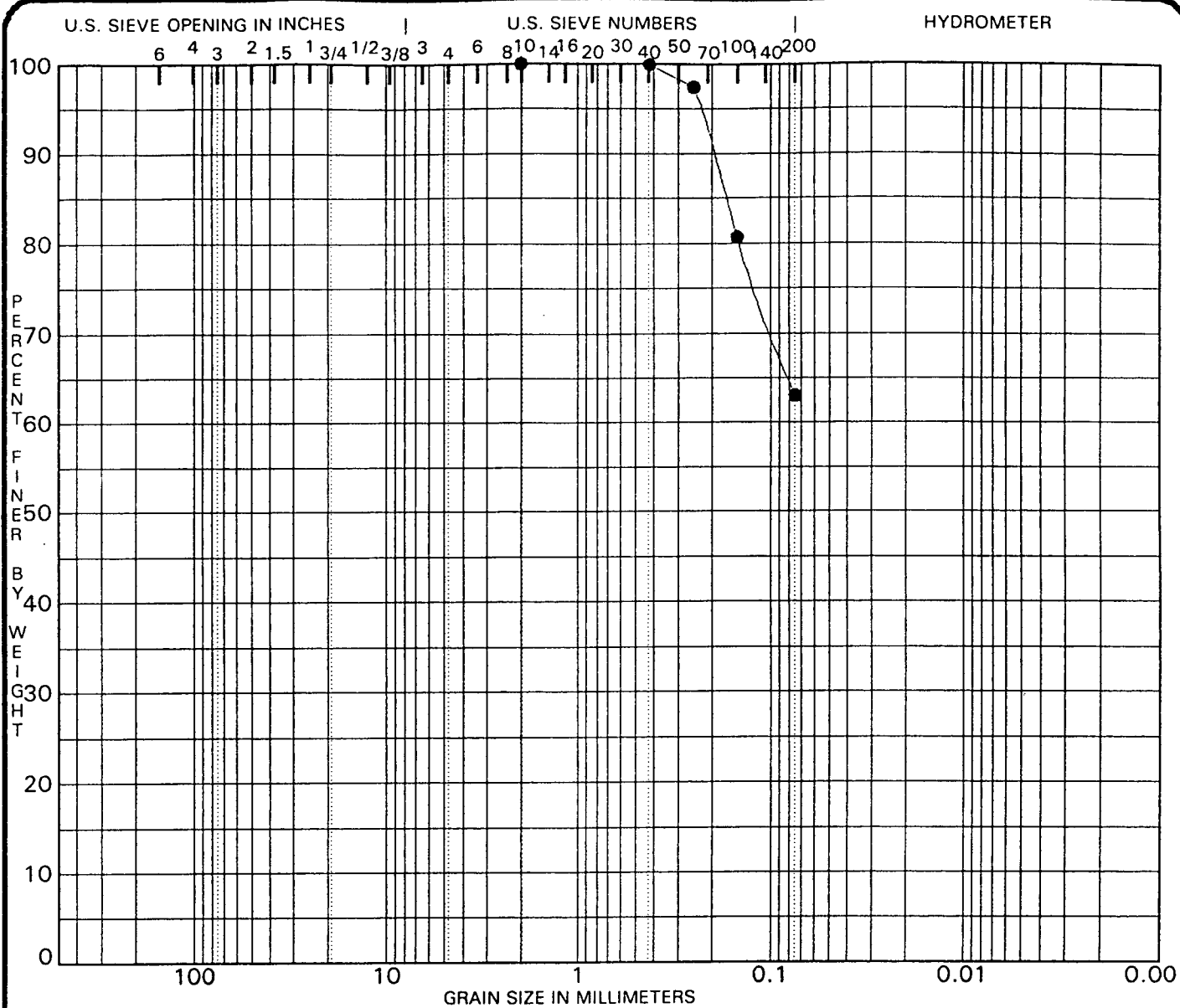
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-17 24.0		26					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-17 24.0	4.75	0.18	0.103		0.0	83.9	16.1	

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● SSA-18 29.0		27					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SSA-18 29.0	2.00				0.0	37.0	63.0	

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 ORLANDO, FLORIDA

Manager: MIGUEL GARCIA Client: HARTMAN & ASSOCIATES Project Description: _____
 Location: FL _____
 Elevation Datum: _____

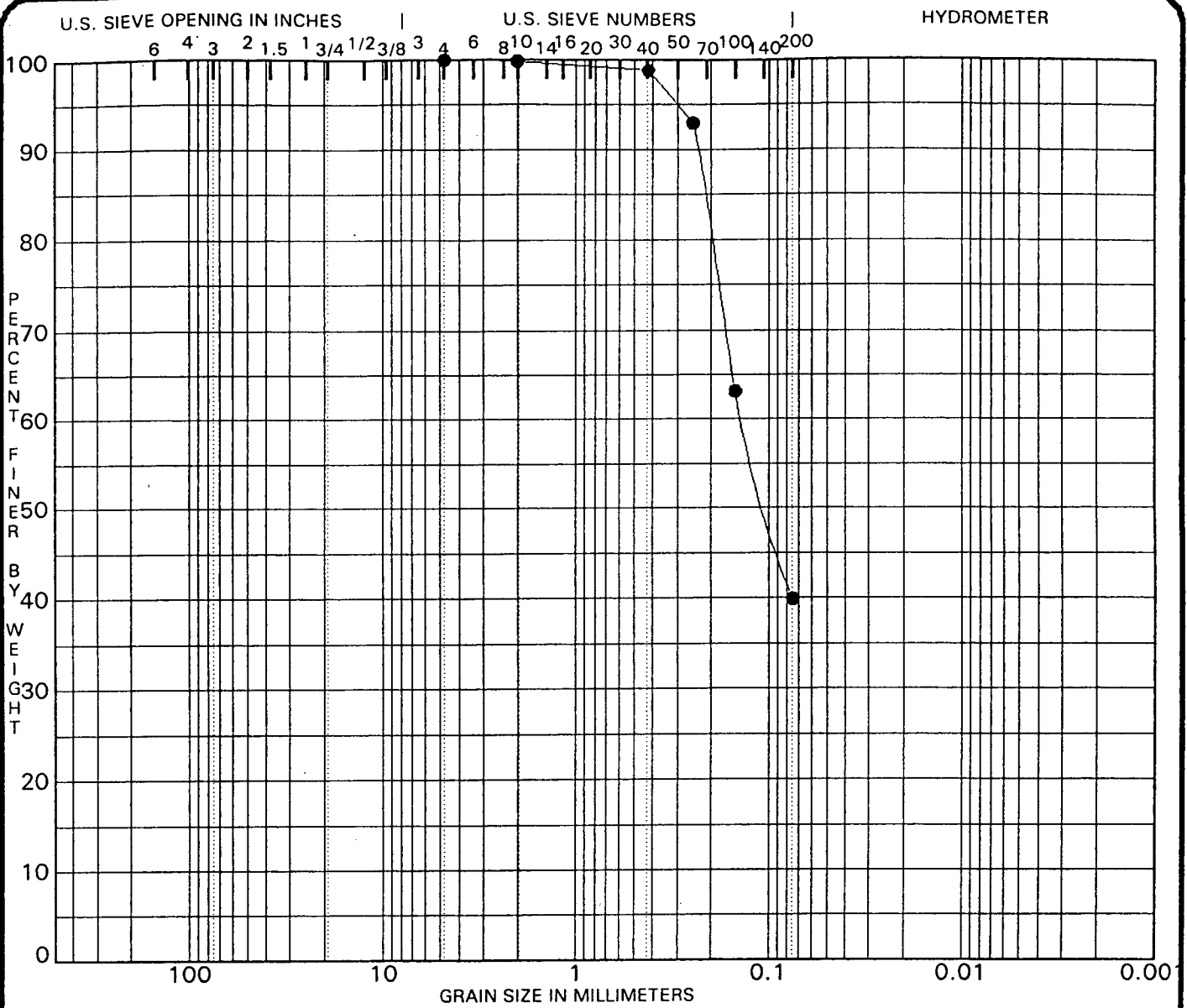
Borehole Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
ST-1 0.5				39.9	22.4				100.0	99.8	98.8	92.9	63.1
ST-1 1.6				38.9	20.4				100.0	100.0	99.2	95.3	64.6
ST-1 2.0				40.3	14.9			6.8E-05					
ST-1 2.5				39.7	20.2				100.0	100.0	99.7	94.8	64.1
ST-2 0.5				56.7	29.0				100.0	100.0	99.8	97.0	78.5
ST-2 1.6				55.7	28.3				100.0	100.0	99.8	96.8	76.1
ST-2 2.0				57.6	23.8			2.3E-05					
ST-2 2.5				61.3	30.9				100.0	100.0	100.0	97.1	80.0
ST-3 0.5				42.7	25.6				100.0	100.0	99.6	94.9	66.6
ST-3 1.6				40.8	23.7				100.0	100.0	99.9	95.3	68.3
ST-3 2.0				45.8	23.6			3-6E-05					
ST-3 2.5				40.9	26.0				100.0	100.0	100.0	97.7	81.9
ST-4 0.5				62.3	33.6				100.0	100.0	99.0	96.7	81.3
ST-4 1.6				67.1	34.0				100.0	100.0	99.6	98.0	84.7
ST-4 2.0				69.0	29.6			7.5E-06					
ST-4 2.5				70.9	36.6				100.0	100.0	99.8	98.6	86.7
ST-5 0.5				45.4	31.2				98.7	98.0	94.8	86.2	62.9
ST-5 1.6				66.5	45.3				100.0	99.8	99.2	97.1	82.9
ST-5 2.0				58.7	37.1			4.1E-05					

Borehole Depth Elev.	Specimen Description				Water Content	Organic Content	ASTM Class	K ft/day	Sieve Analysis				
	LL	PL	PI	No 200					No 4	No 10	No 40	No 60	No 100
ST-5 2.5				55.4	36.5				95.2	92.2	89.0	85.9	71.5
ST-6 0.5				56.6	35.5				100.0	99.7	99.3	95.9	75.9
ST-6 1.6				42.7	33.2				75.1	72.0	67.5	64.3	52.3
ST-6 2.0				46.1	28.6			1.0E-04					
ST-6 2.5				46.6	30.3				81.8	78.0	71.9	68.1	57.6
ST-7 0.5				17.8	15.1				100.0	100.0	97.6	82.7	40.8
ST-7 1.6				15.9	16.1				100.0	100.0	97.8	83.4	40.4
ST-7 2.0				15.7	16.4			2.7E-02					
ST-7 2.5				17.9	14.8				100.0	100.0	97.7	84.2	41.5
ST-8 0.5				37.1	25.3				100.0	99.8	97.9	88.7	58.4
ST-8 1.6				56.5	30.9				100.0	100.0	99.8	96.8	76.4
ST-8 2.0				52.8	29.9			1.5E-04					
ST-8 2.5				49.6	29.8				100.0	99.7	99.3	95.0	69.5

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Summary of Material Properties

Space for logo (!fXXXX)

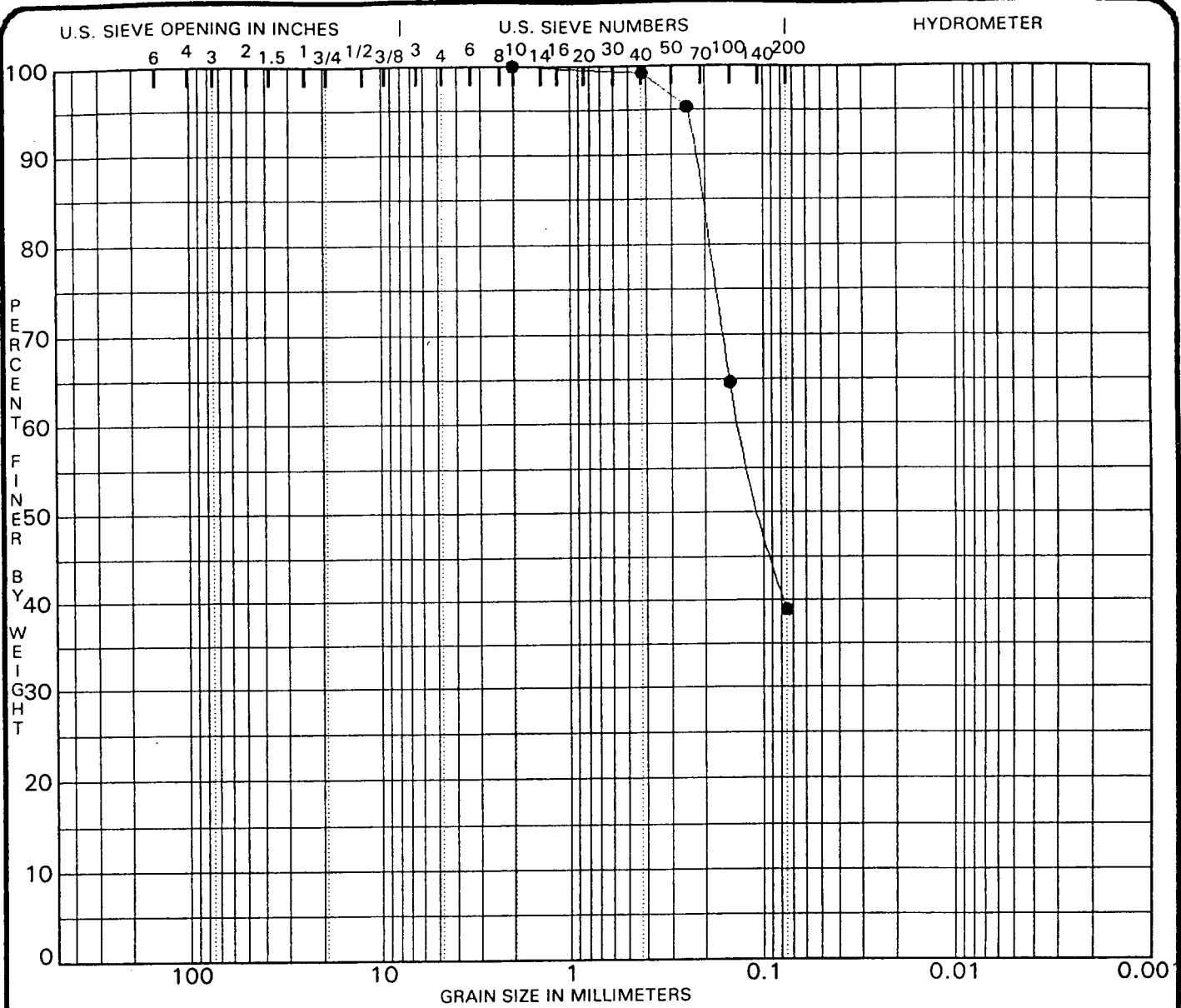


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-1 0.5		22					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-1 0.5	4.75	0.14			0.0	60.1	39.9	

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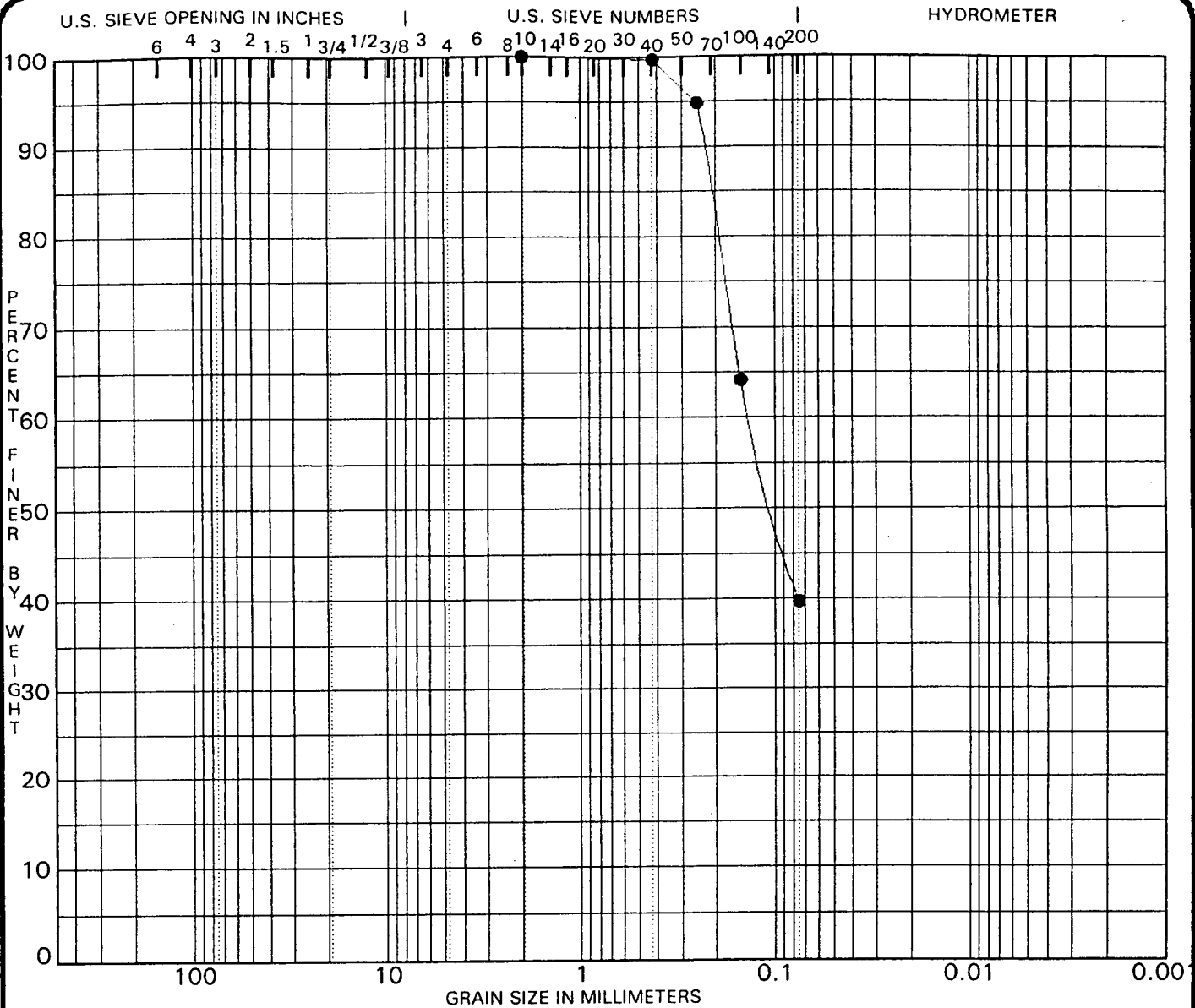


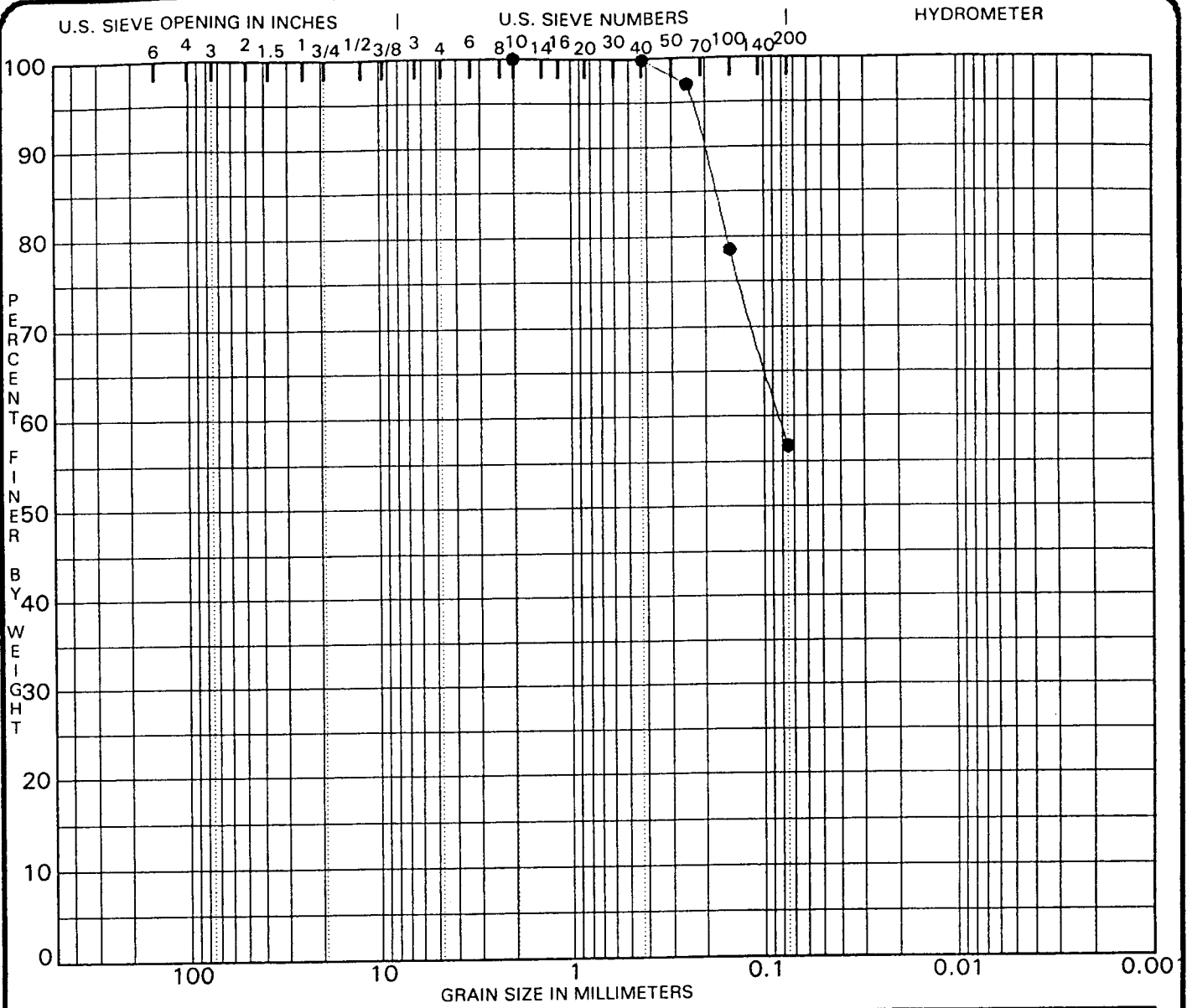
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-1 1.6		20					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-1 1.6	2.00	0.13			0.0	61.1	38.9	

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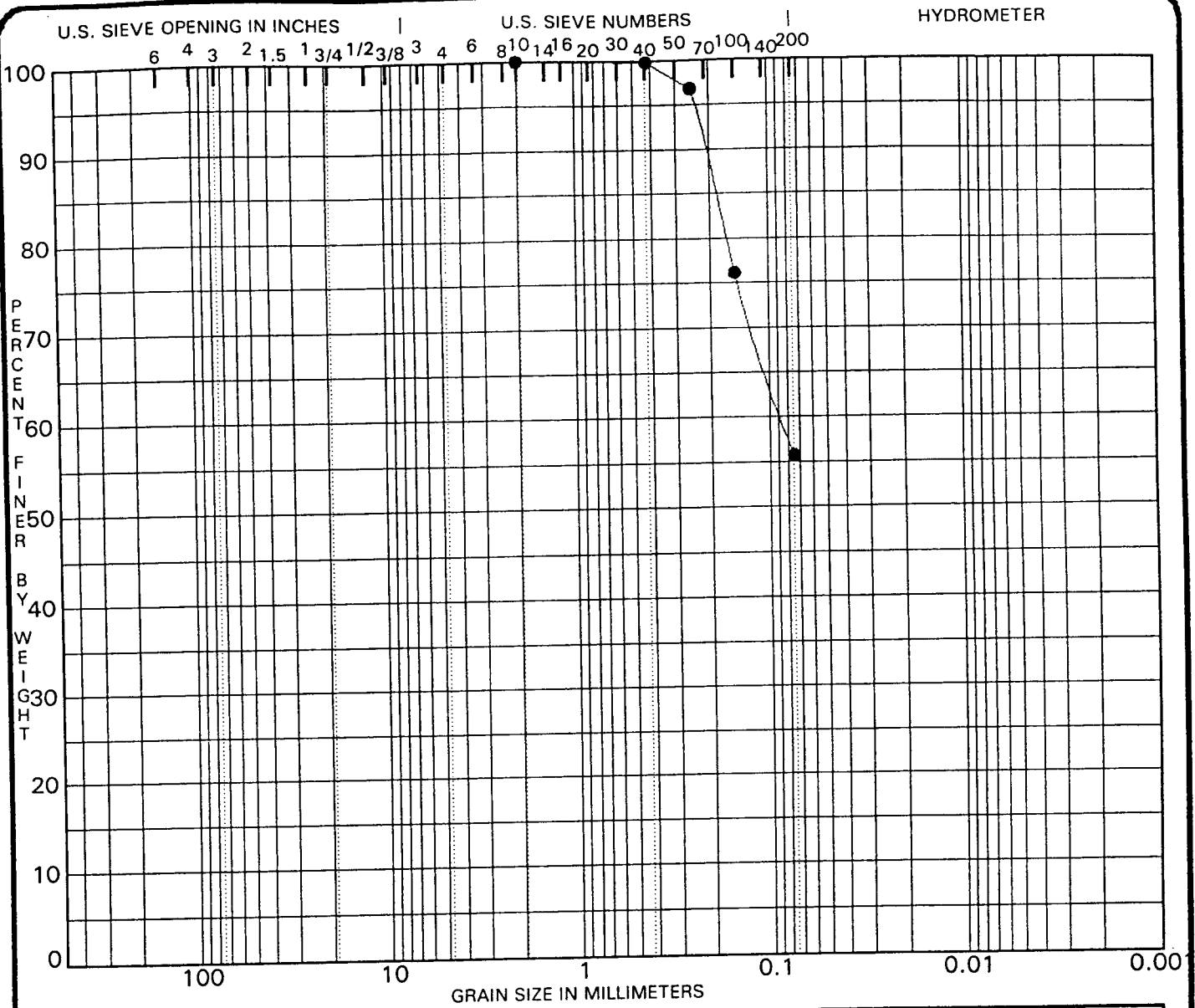
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-2 0.5		29					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-2 0.5	2.00	0.08			0.0	43.3	56.7	

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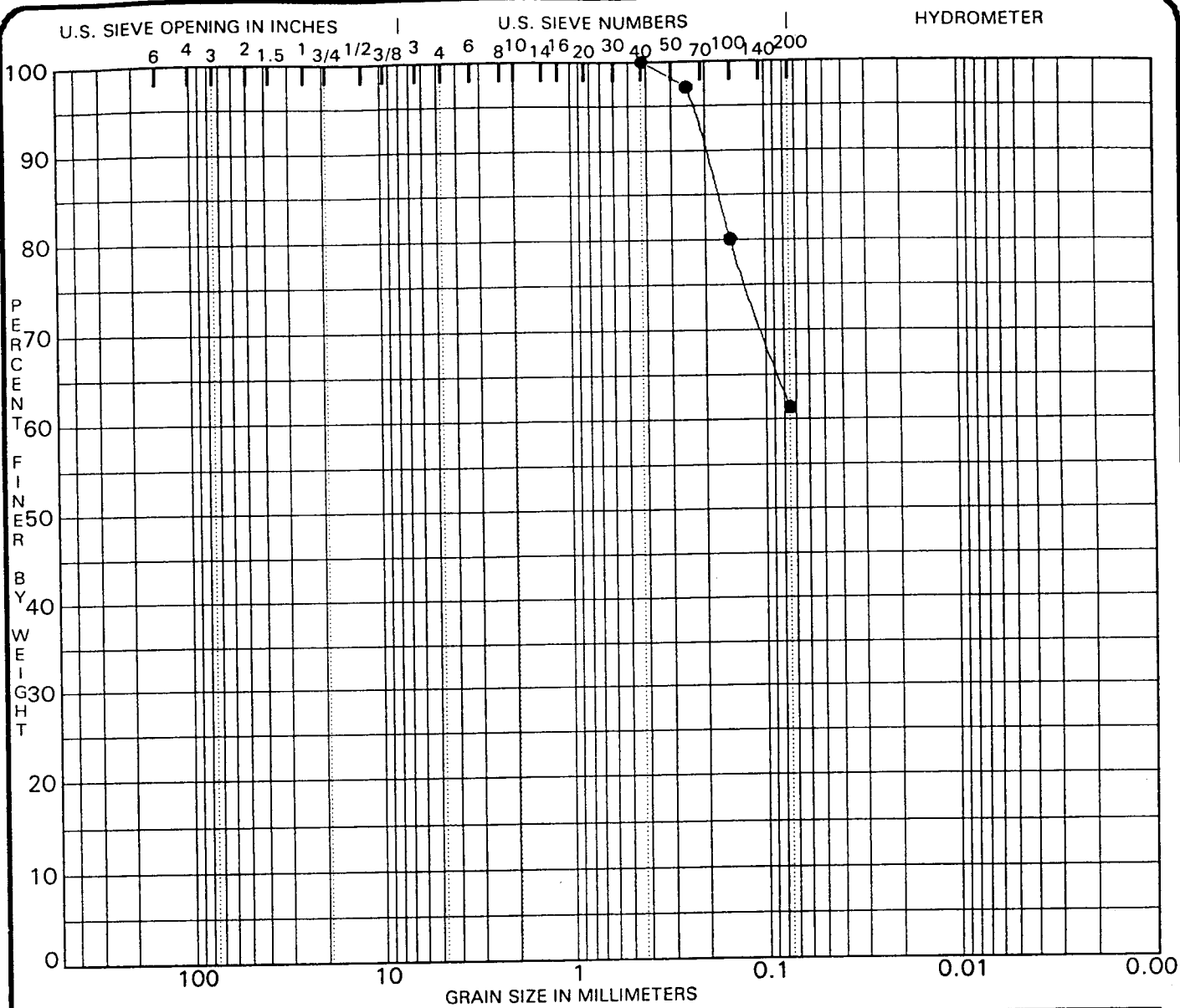
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-2 1.6		28					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-2 1.6	2.00	0.09			0.0	44.3	55.7	

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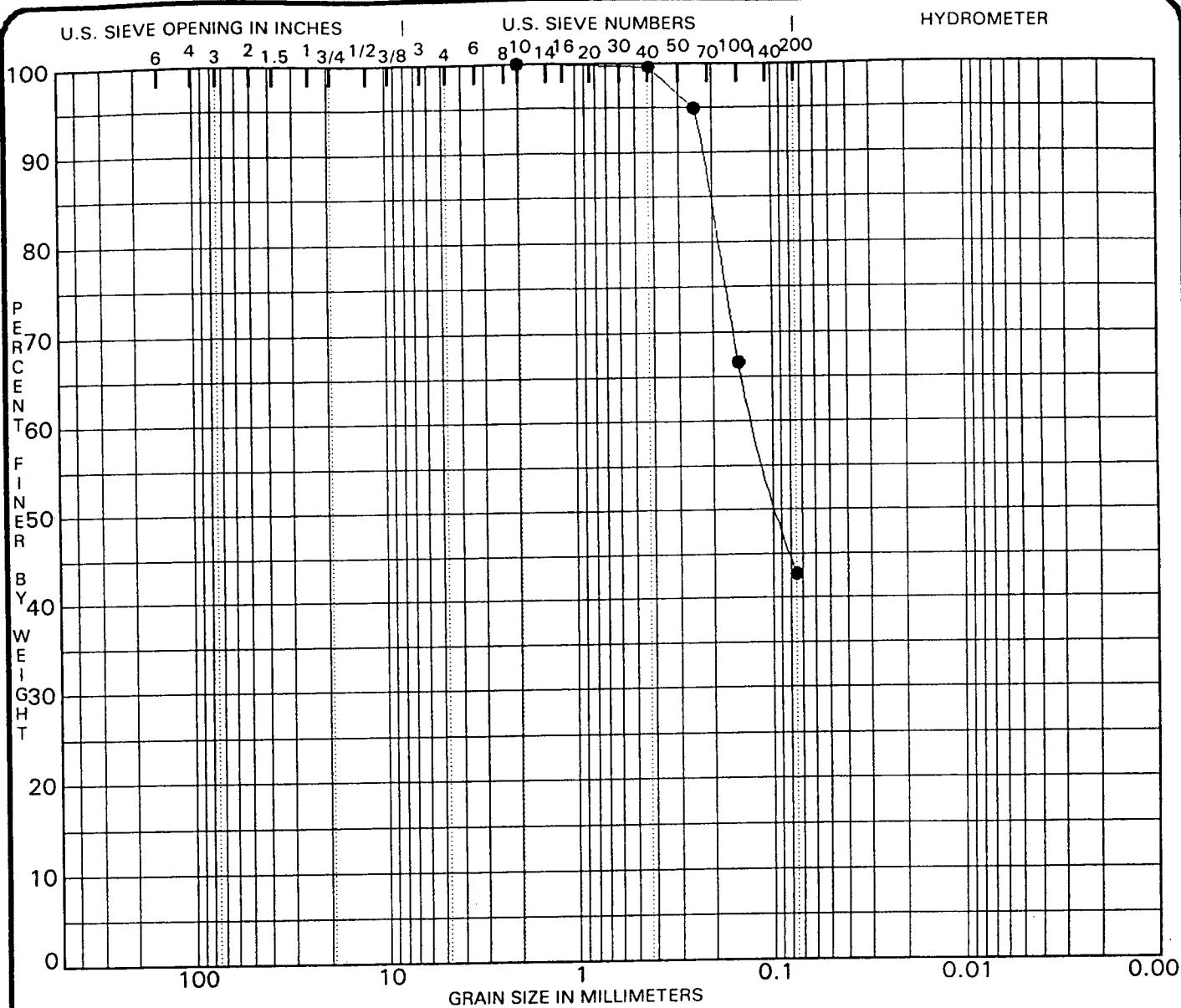
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-2 2.5		31					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-2 2.5	0.43				0.0	38.7	61.3	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
 DATE 8/6/03

GRADATION CURVES
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 ORLANDO, FLORIDA



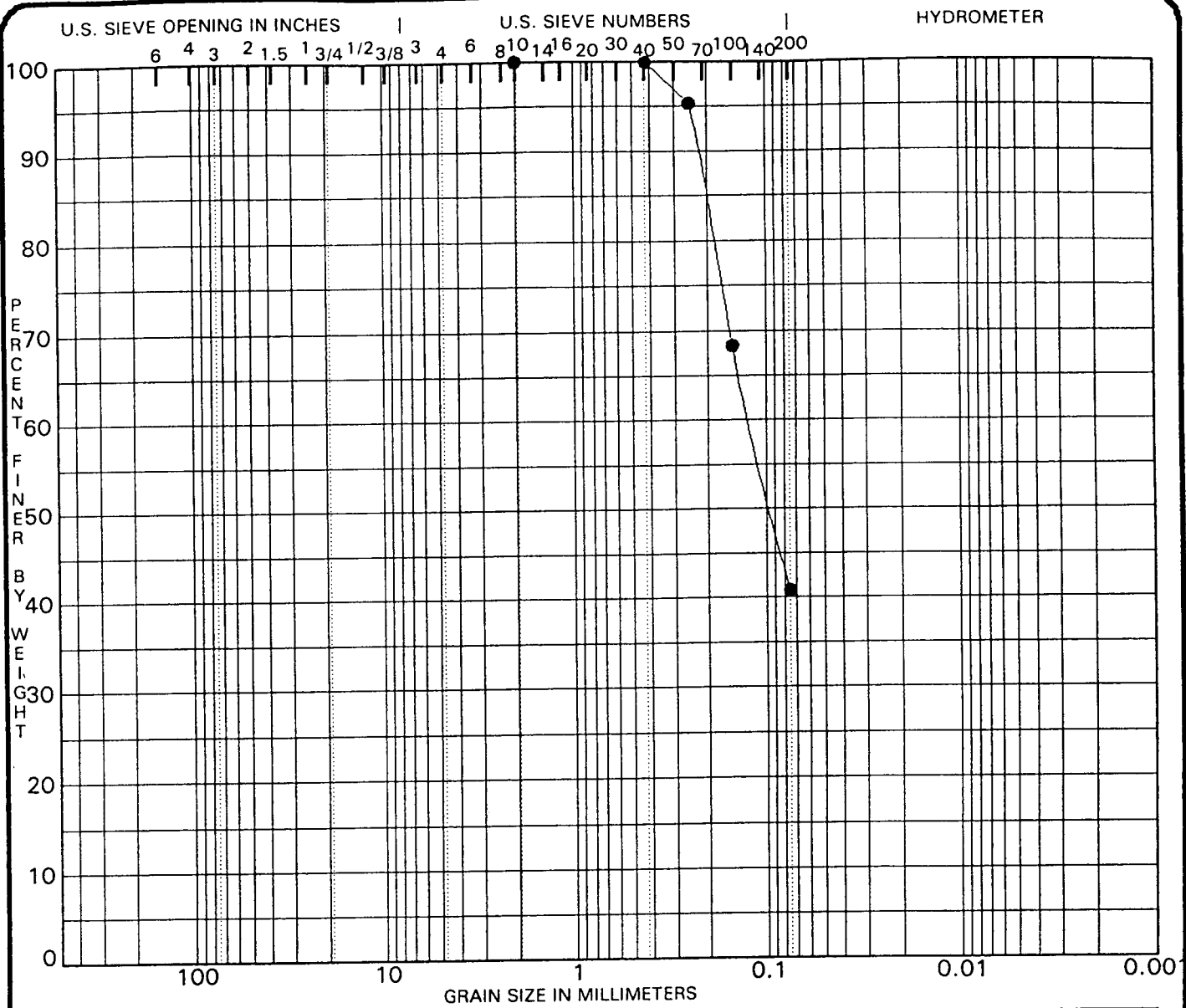
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

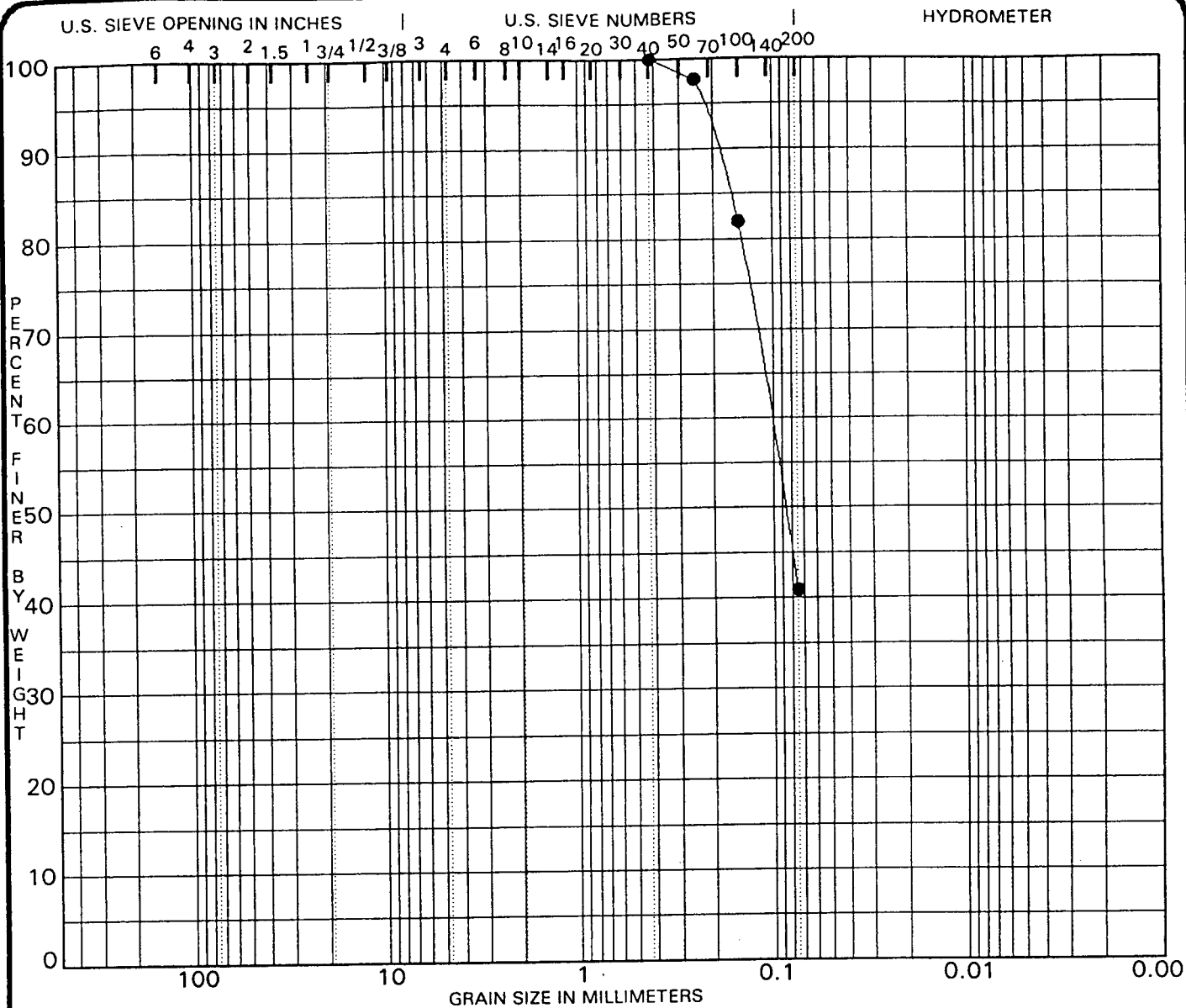
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-3 0.5		26					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-3 0.5	2.00	0.12			0.0	57.3	42.7	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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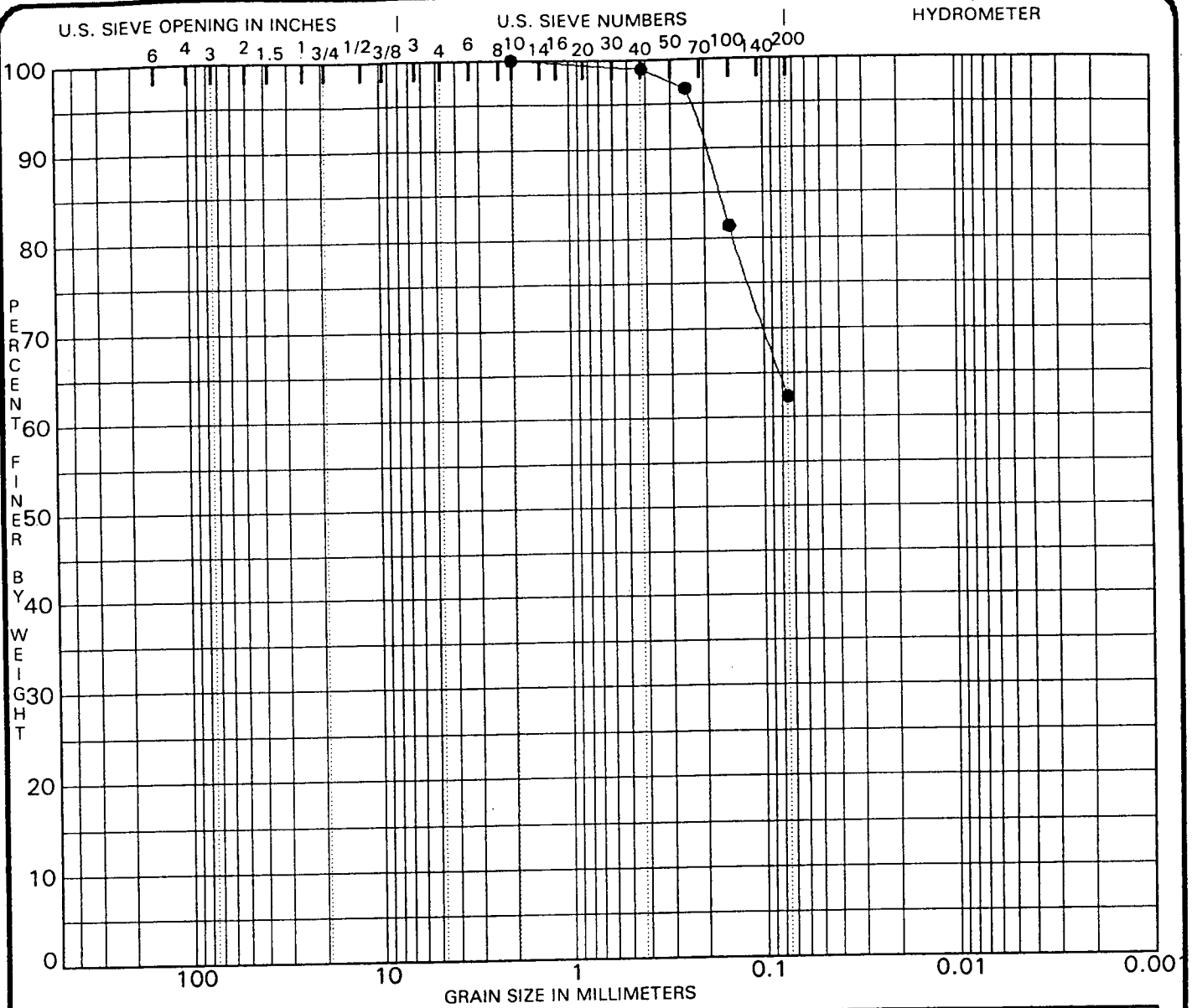
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-3 2.5		26					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-3 2.5	0.43	0.10			0.0	59.1	40.9	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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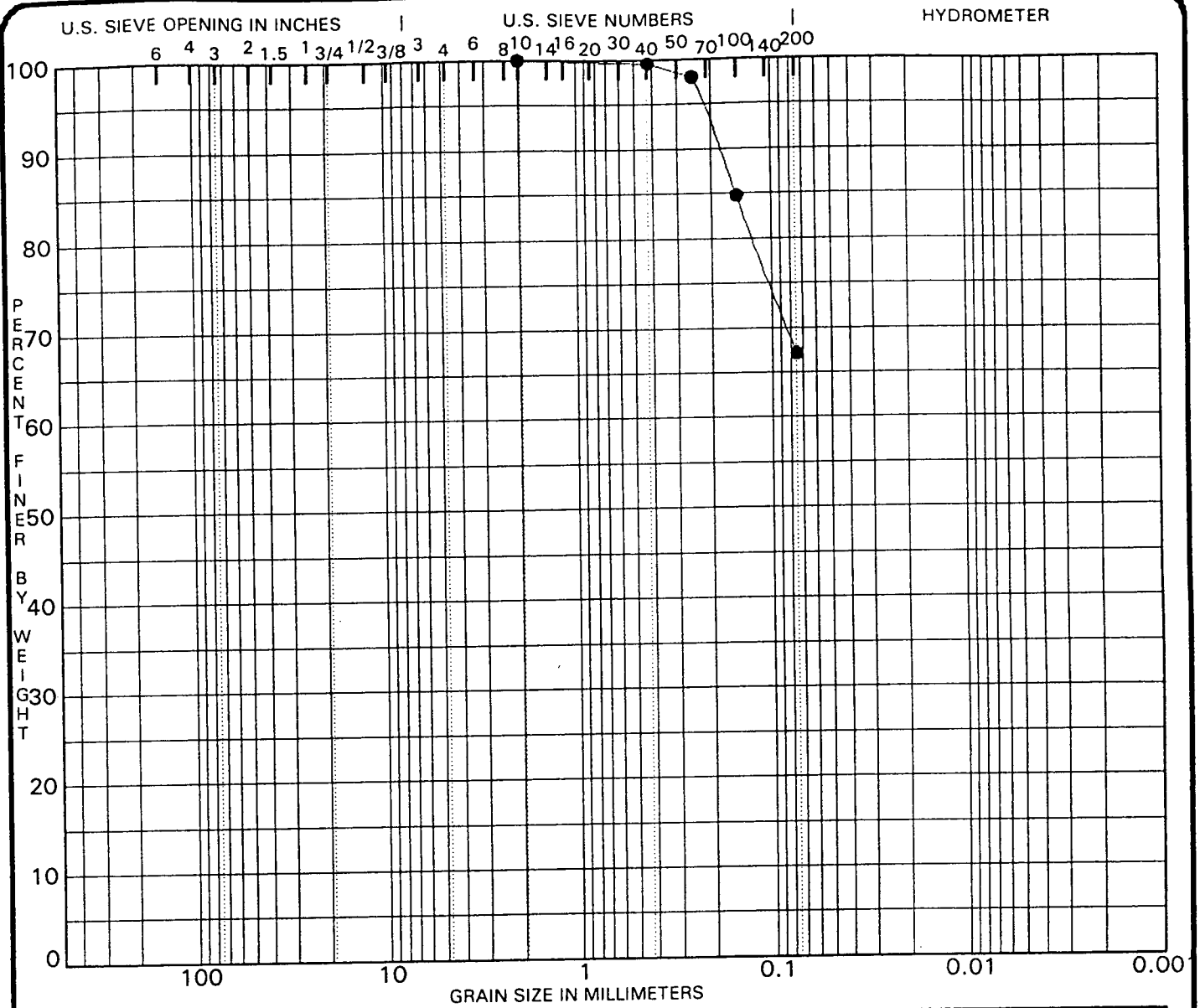


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-4 0.5		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-4 0.5	2.00				0.0	37.7	62.3	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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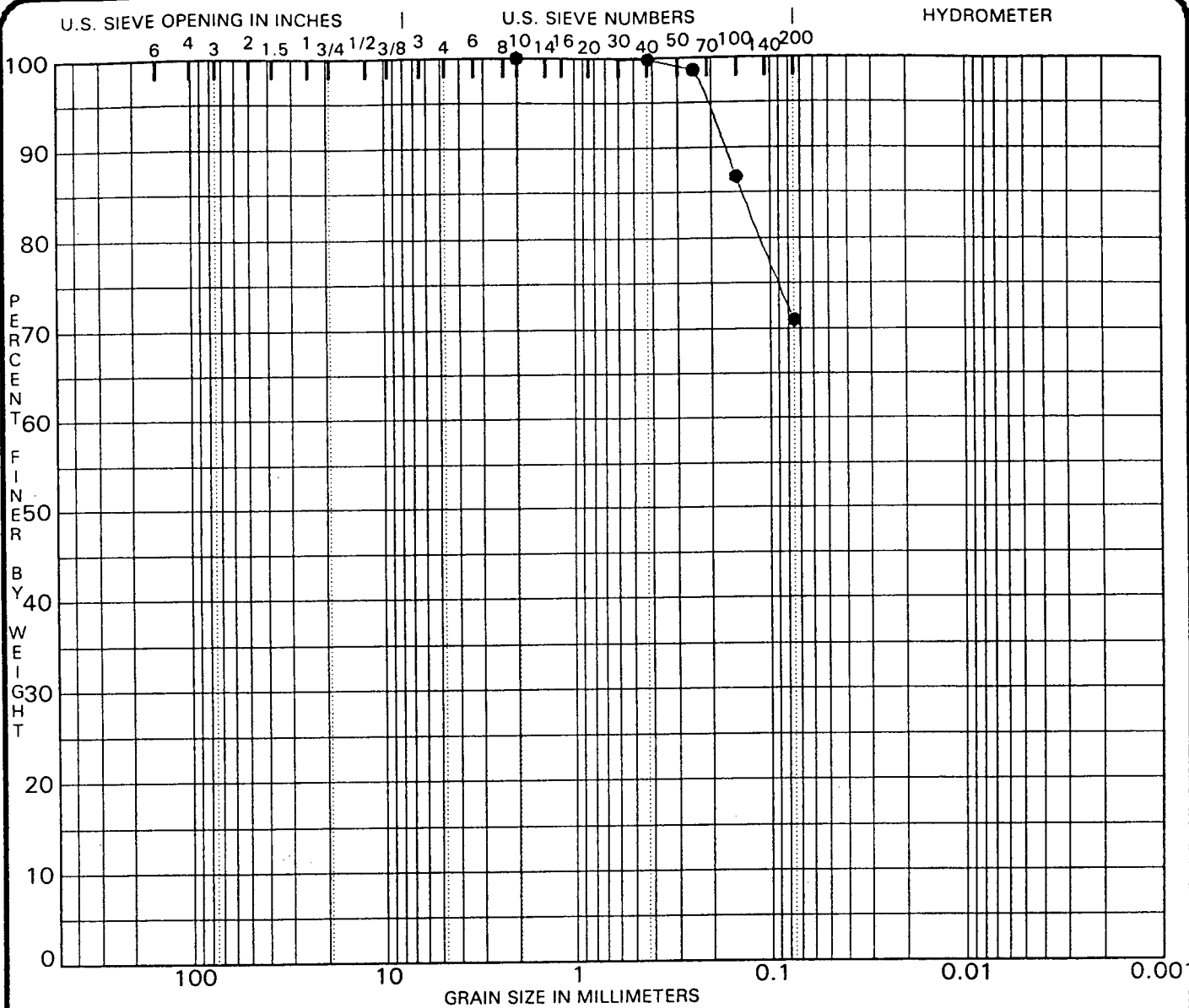


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-4 1.6		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-4 1.6	2.00				0.0	32.9	67.1	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

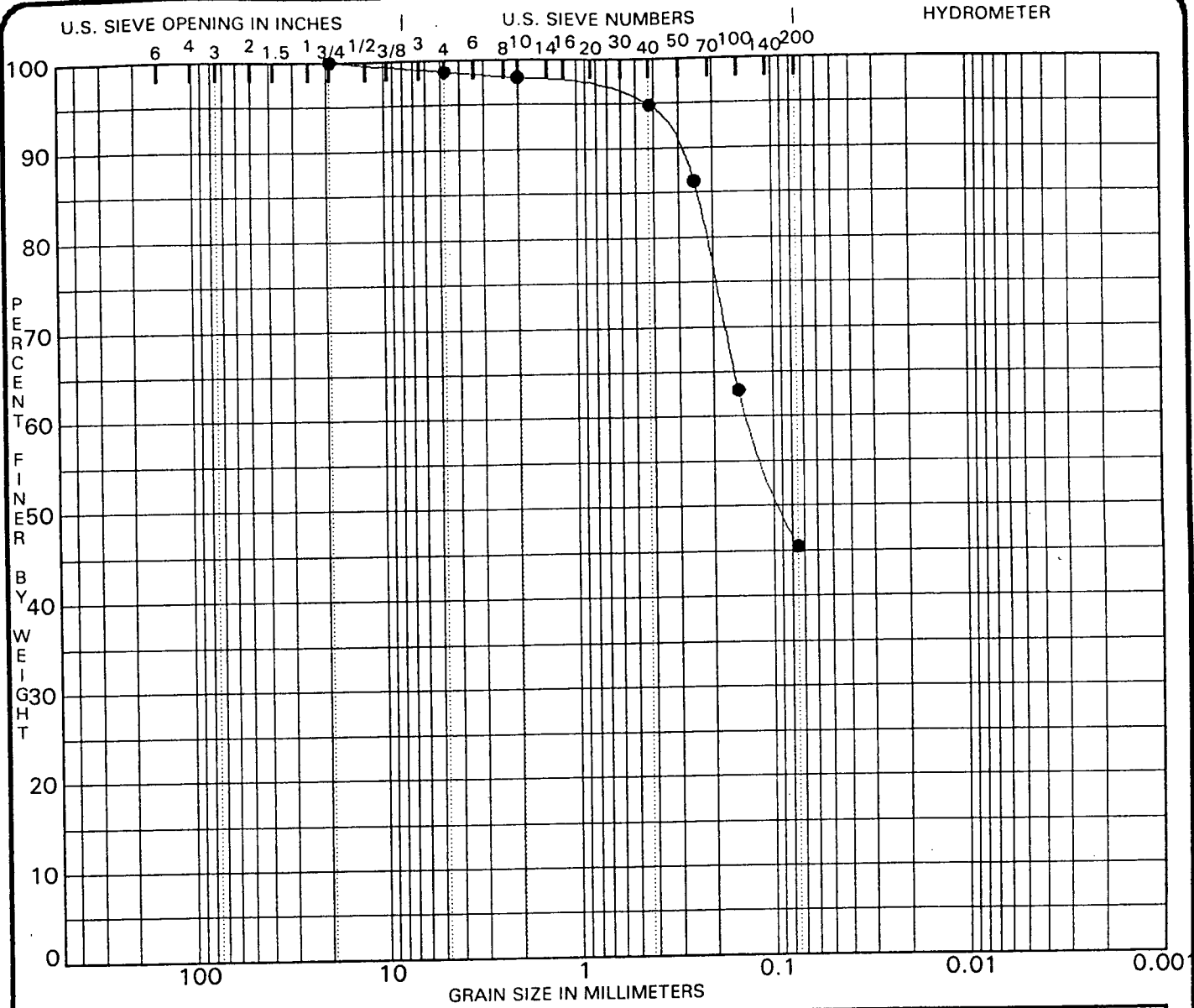
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-4 2.5		37					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-4 2.5	2.00				0.0	29.1	70.9	

PROJECT ENTERPRISE ROAD LANDFILL -

JOB NO. _____
DATE 8/6/03

GRADATION CURVES
UNIVERSAL ENGINEERING SCIENCES
ORLANDO, FLORIDA



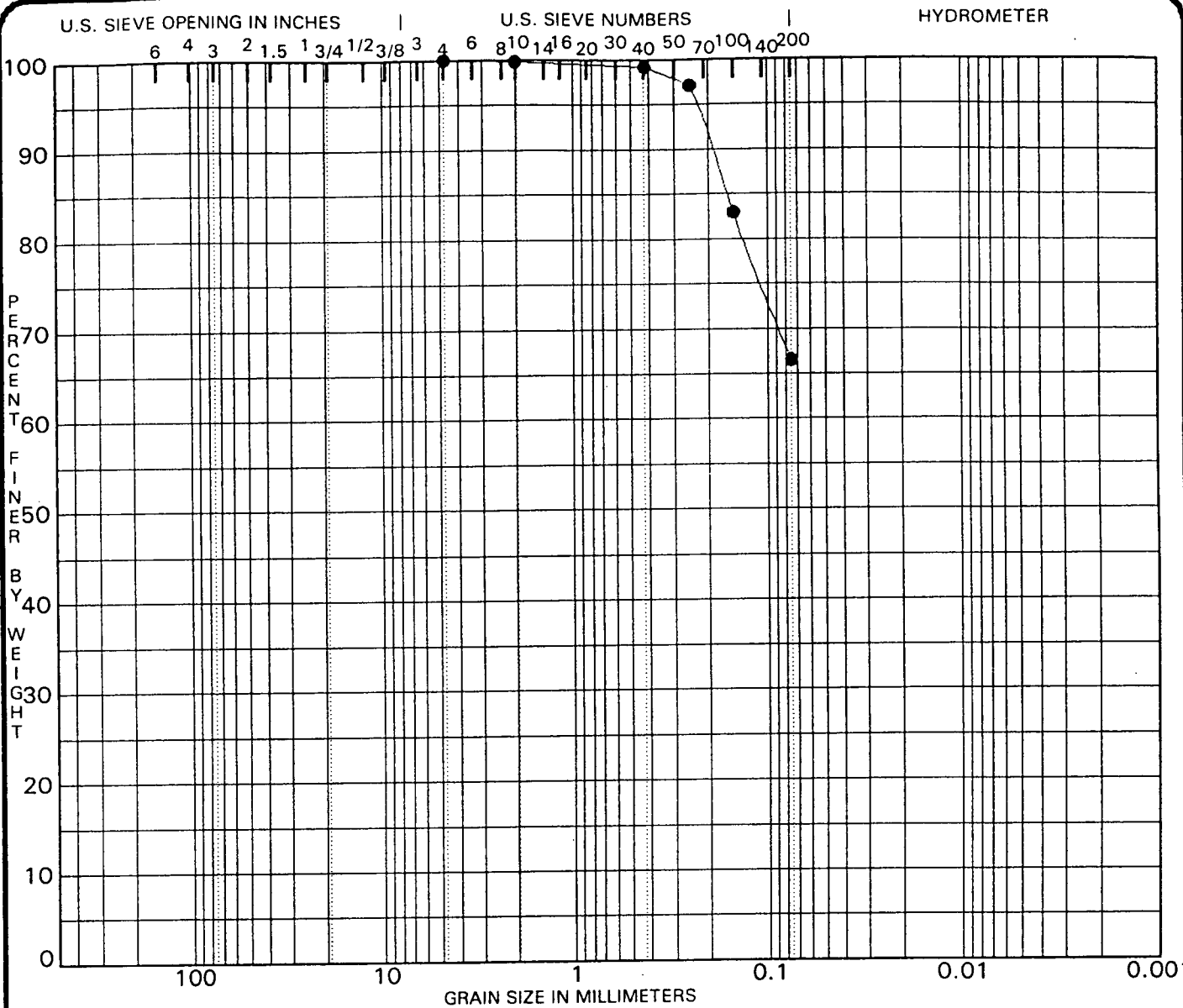
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-5 0.5		31					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-5 0.5	19.00	0.13			1.3	53.3	45.4	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
 DATE 8/6/03

GRADATION CURVES
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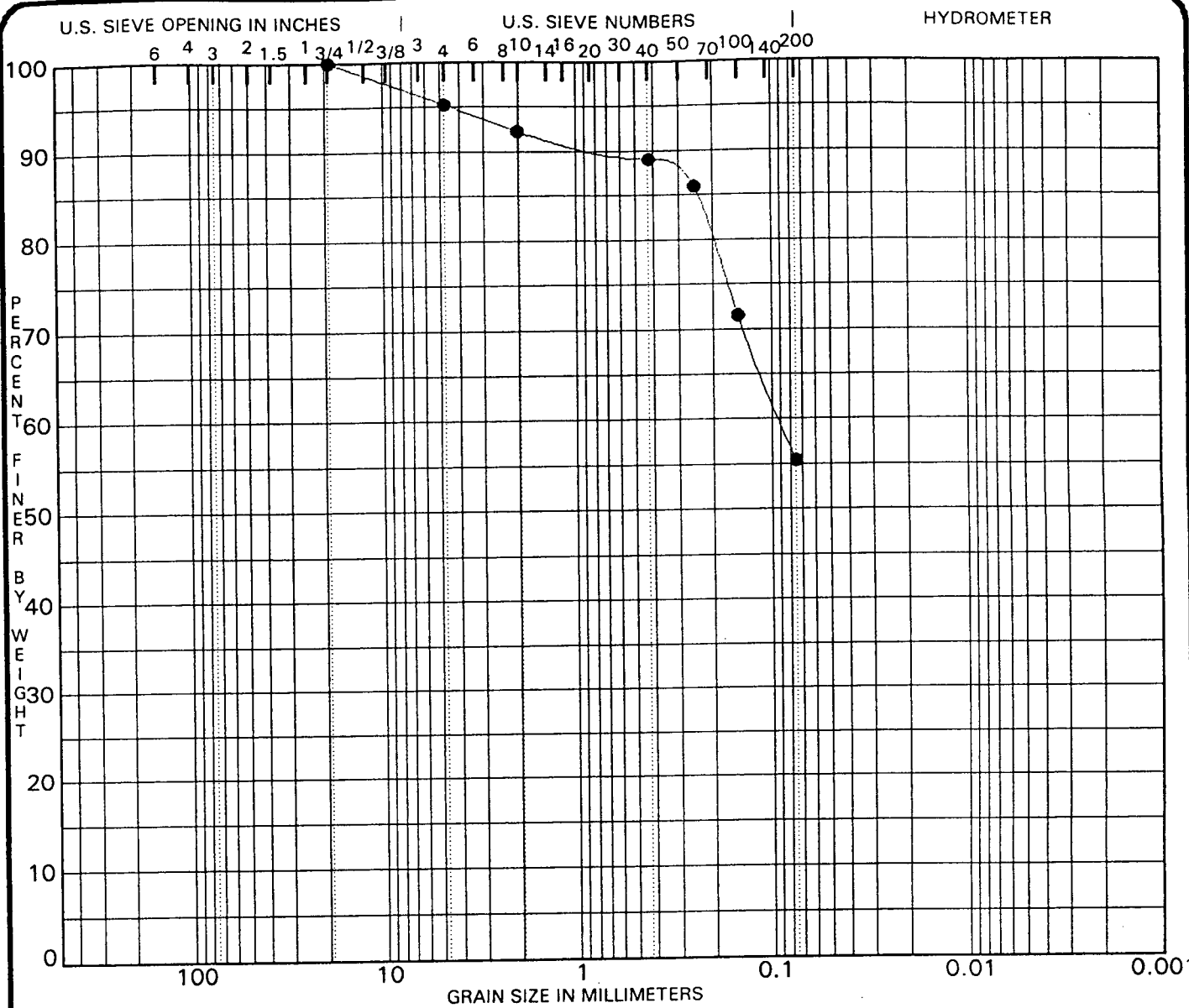
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-5 1.6		45					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-5 1.6	4.75				0.0	33.5	66.5	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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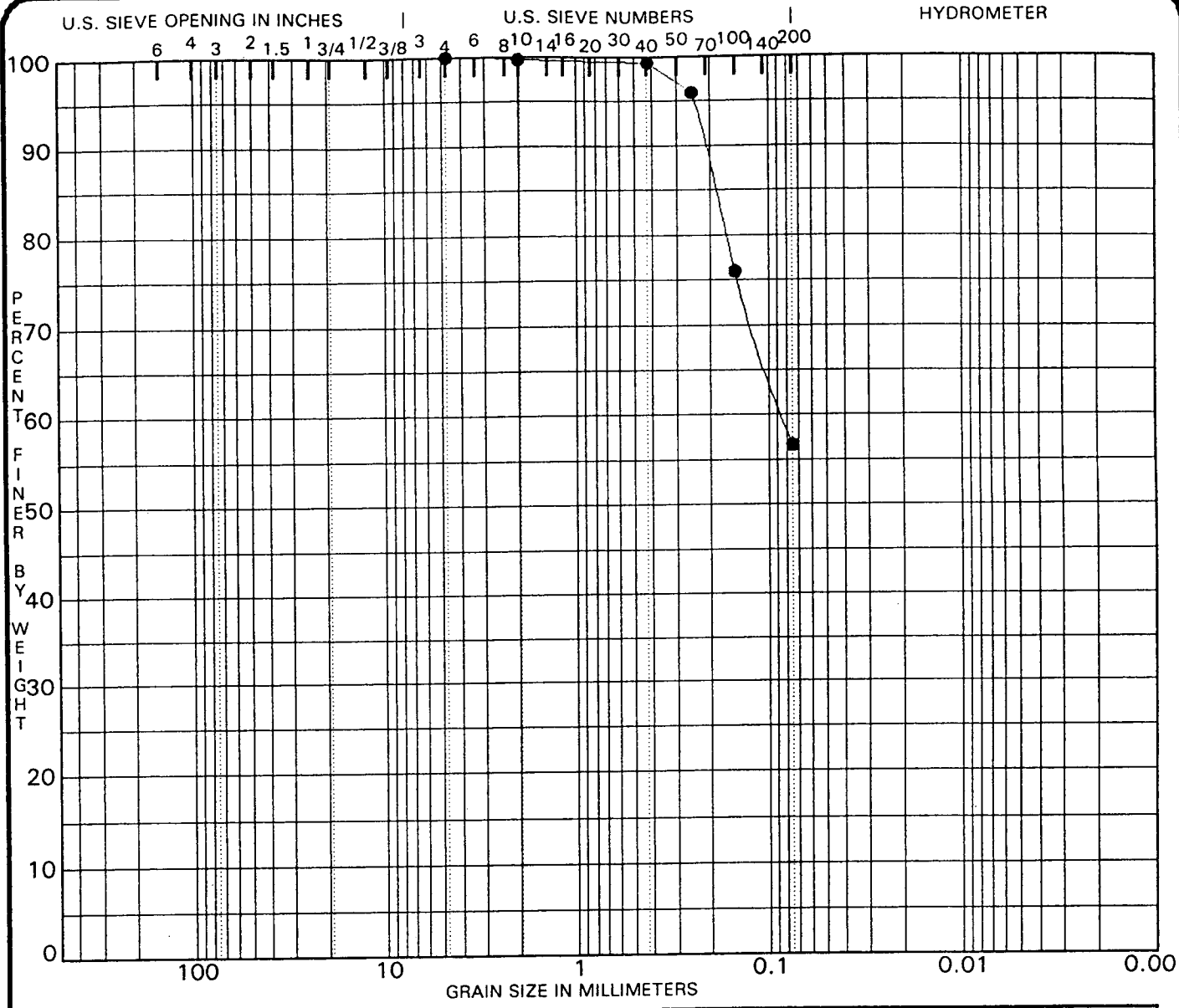
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-5 2.5		37					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-5 2.5	19.00	0.09			4.8	39.8	55.4	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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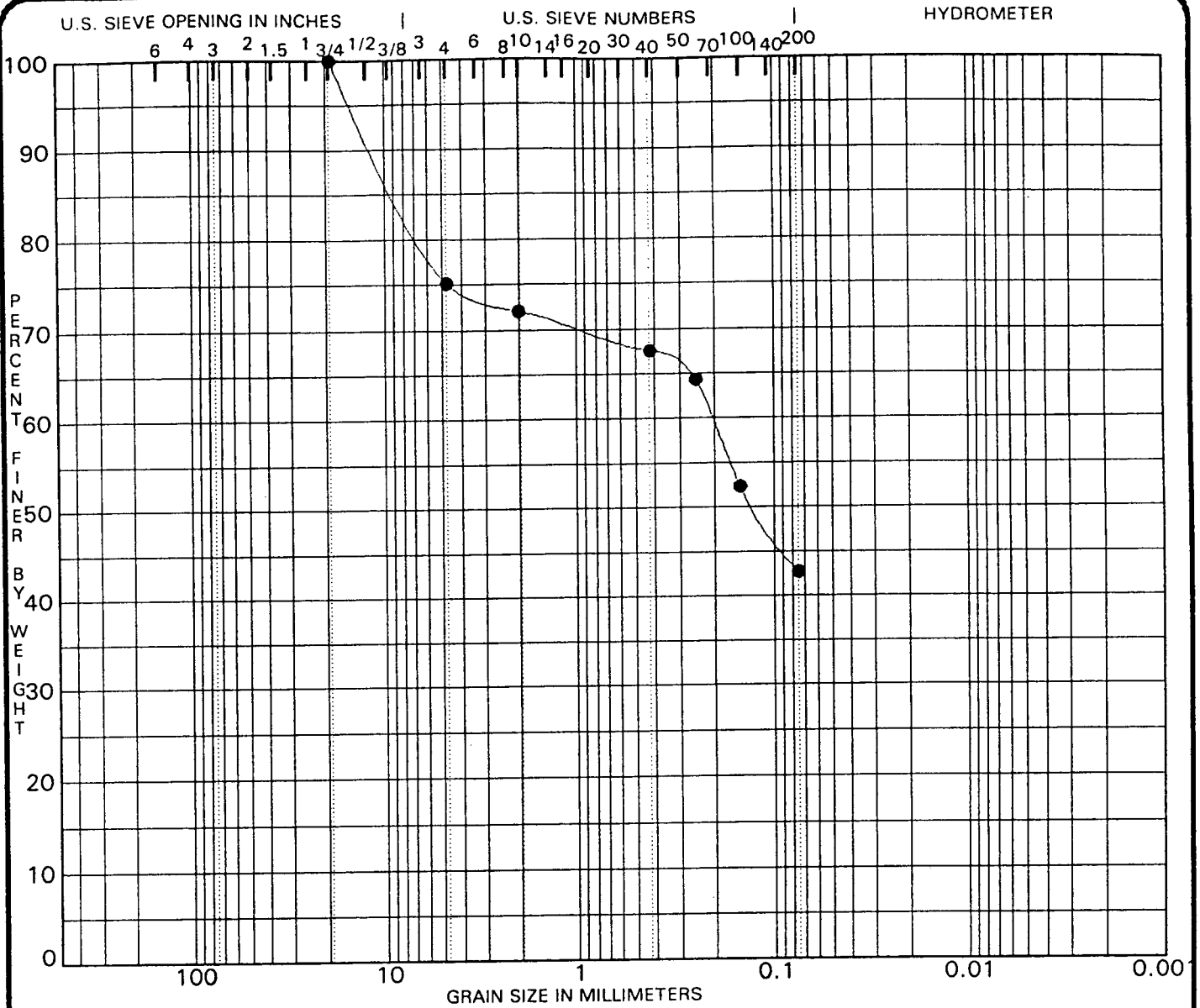
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-6 0.5		36					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-6 0.5	4.75	0.08			0.0	43.4	56.6	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA



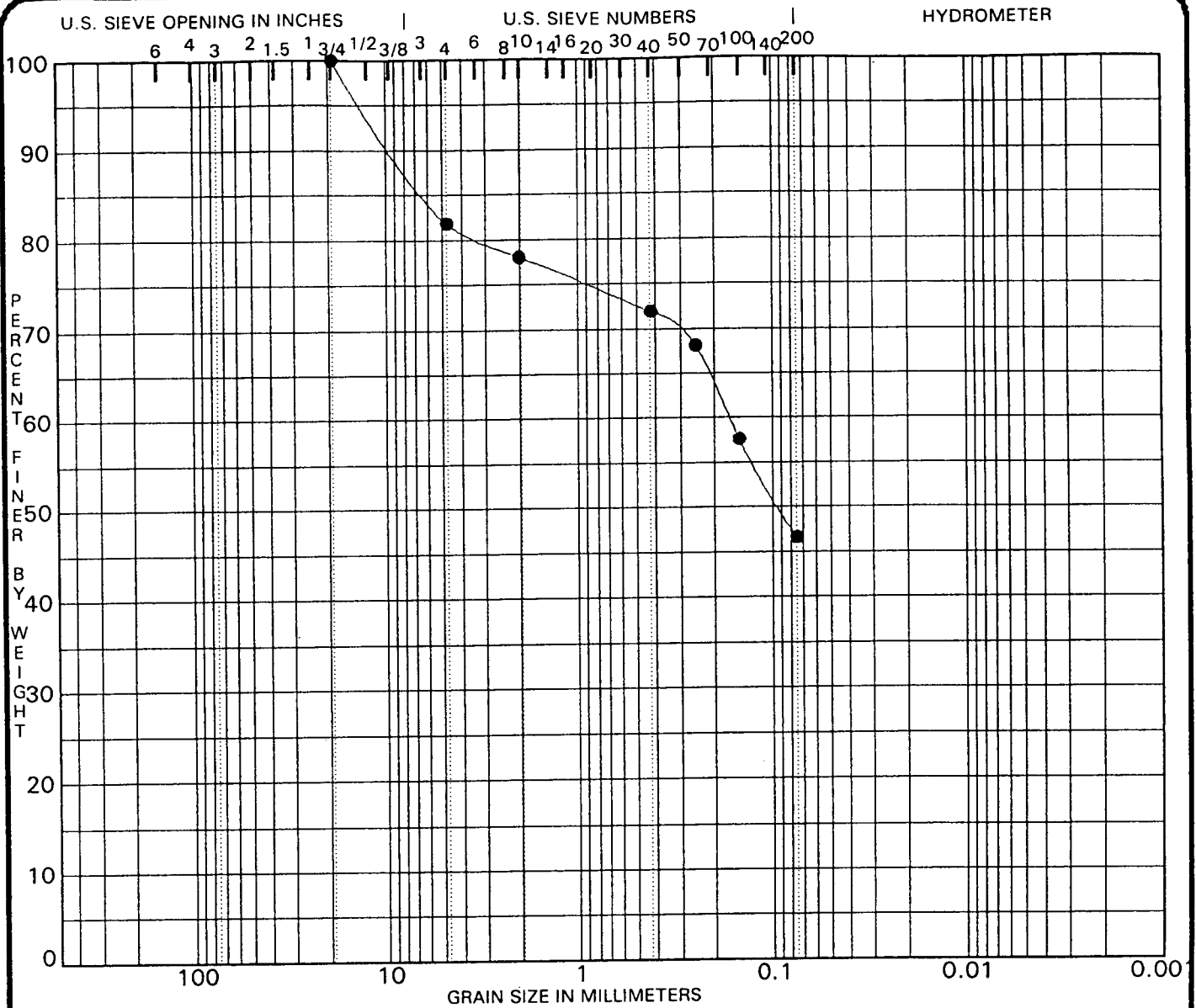
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-6 1.6		33					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-6 1.6	19.00	0.21			24.9	32.4	42.7	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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GRADATION CURVES
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 ORLANDO, FLORIDA



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

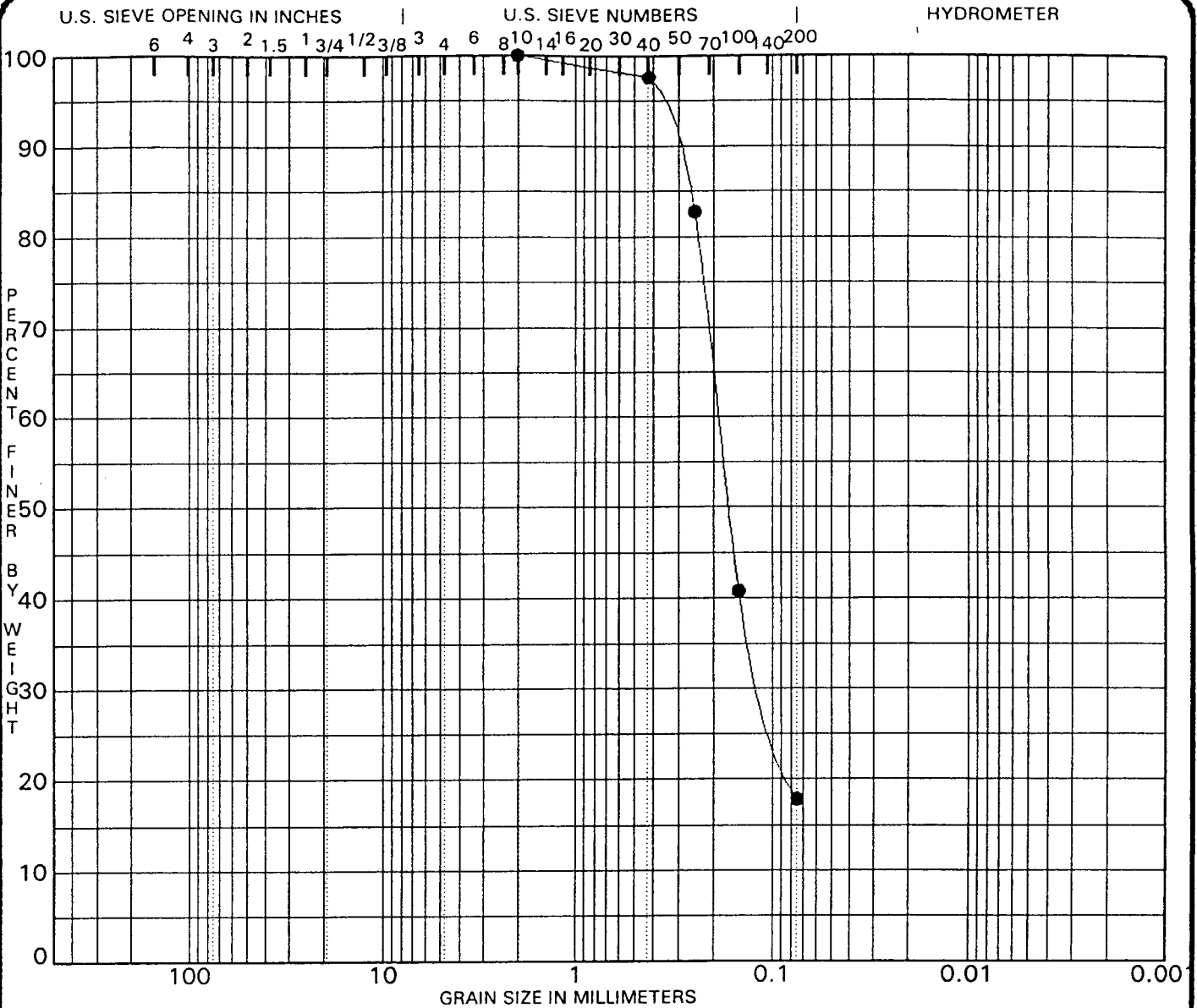
Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-6 2.5		30					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-6 2.5	19.00	0.17			18.2	35.2	46.6	

PROJECT ENTERPRISE ROAD LANDFILL - _____

JOB NO. _____
DATE 8/6/03

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ORLANDO, FLORIDA



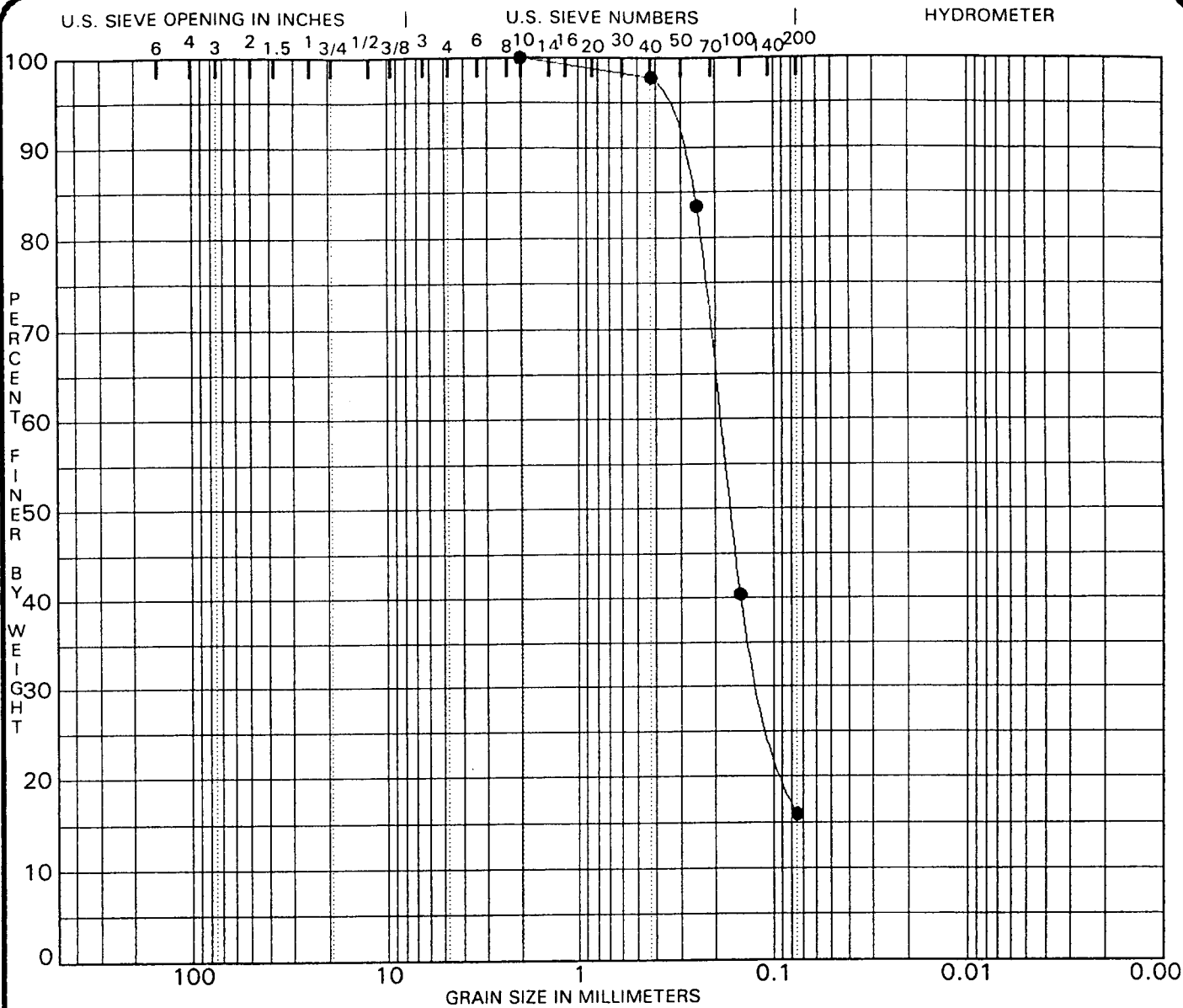
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-7 0.5		15					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-7 0.5	2.00	0.19	0.108		0.0	82.2	17.8	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____ DATE 8/6/03

GRADATION CURVES
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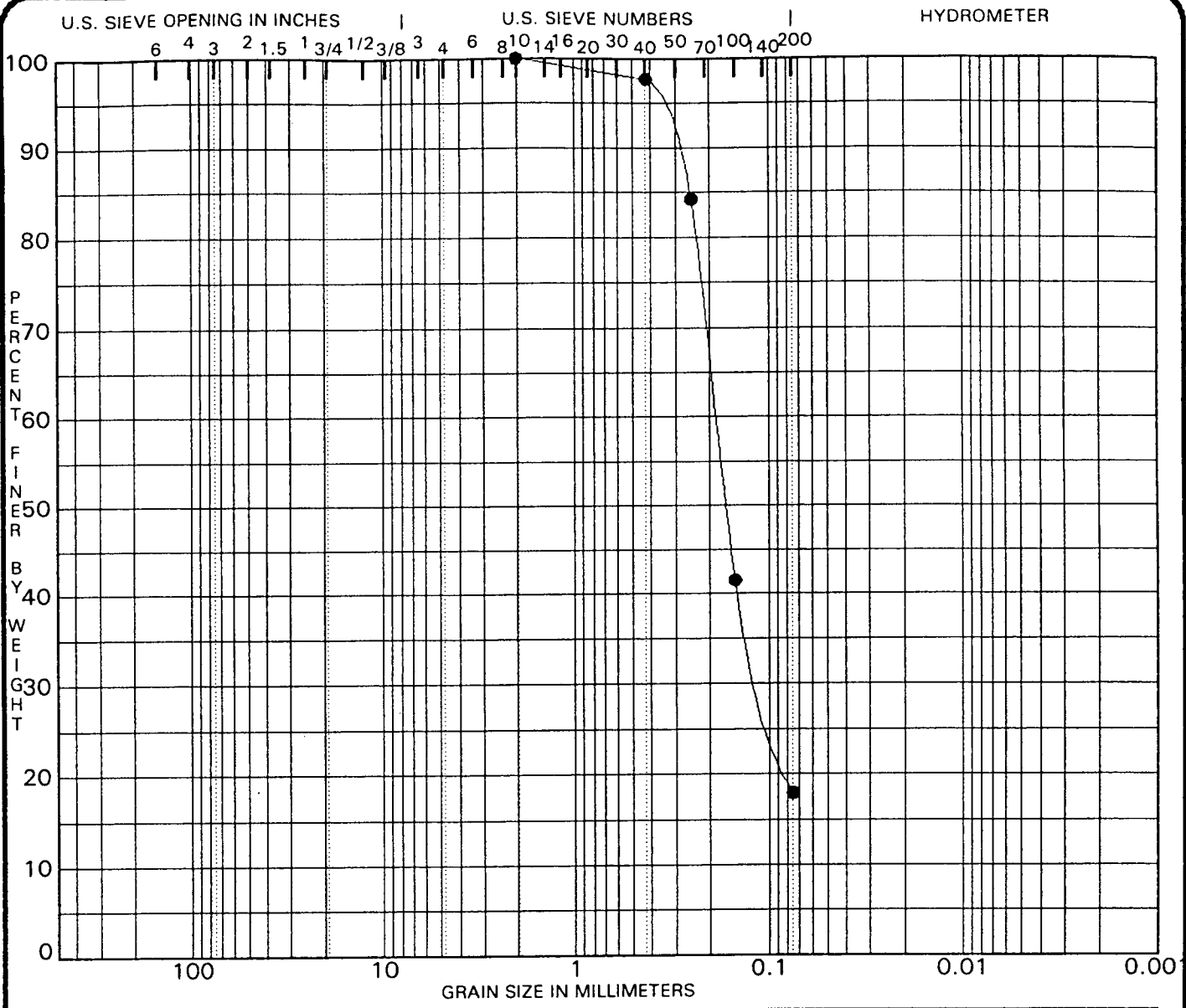
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-7 1.6		16					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-7 1.6	2.00	0.19	0.112		0.0	84.1	15.9	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
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GRADATION CURVES
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 ORLANDO, FLORIDA

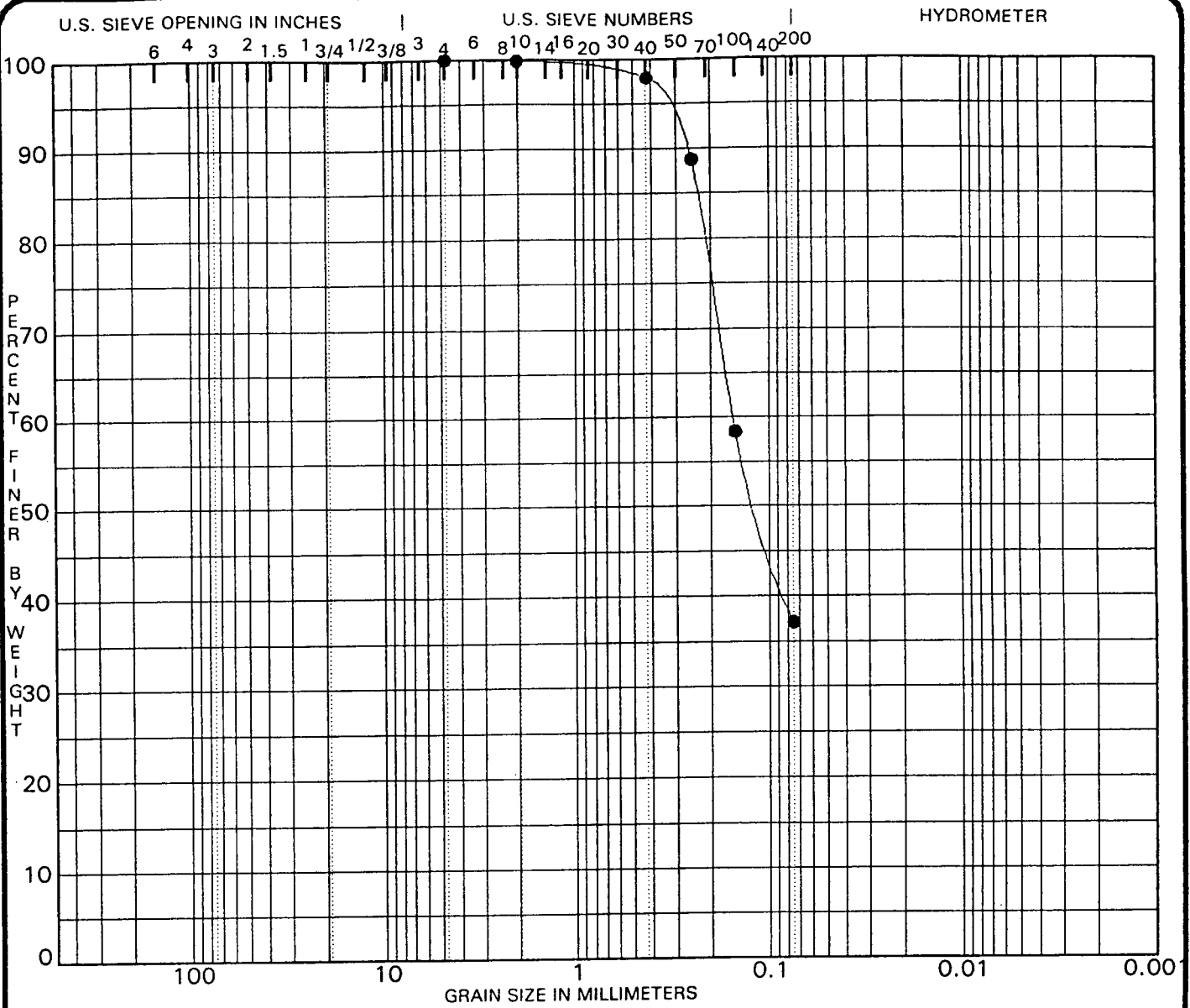


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-7 2.5		15					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-7 2.5	2.00	0.19	0.107		0.0	82.1	17.9	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____ DATE 8/6/03



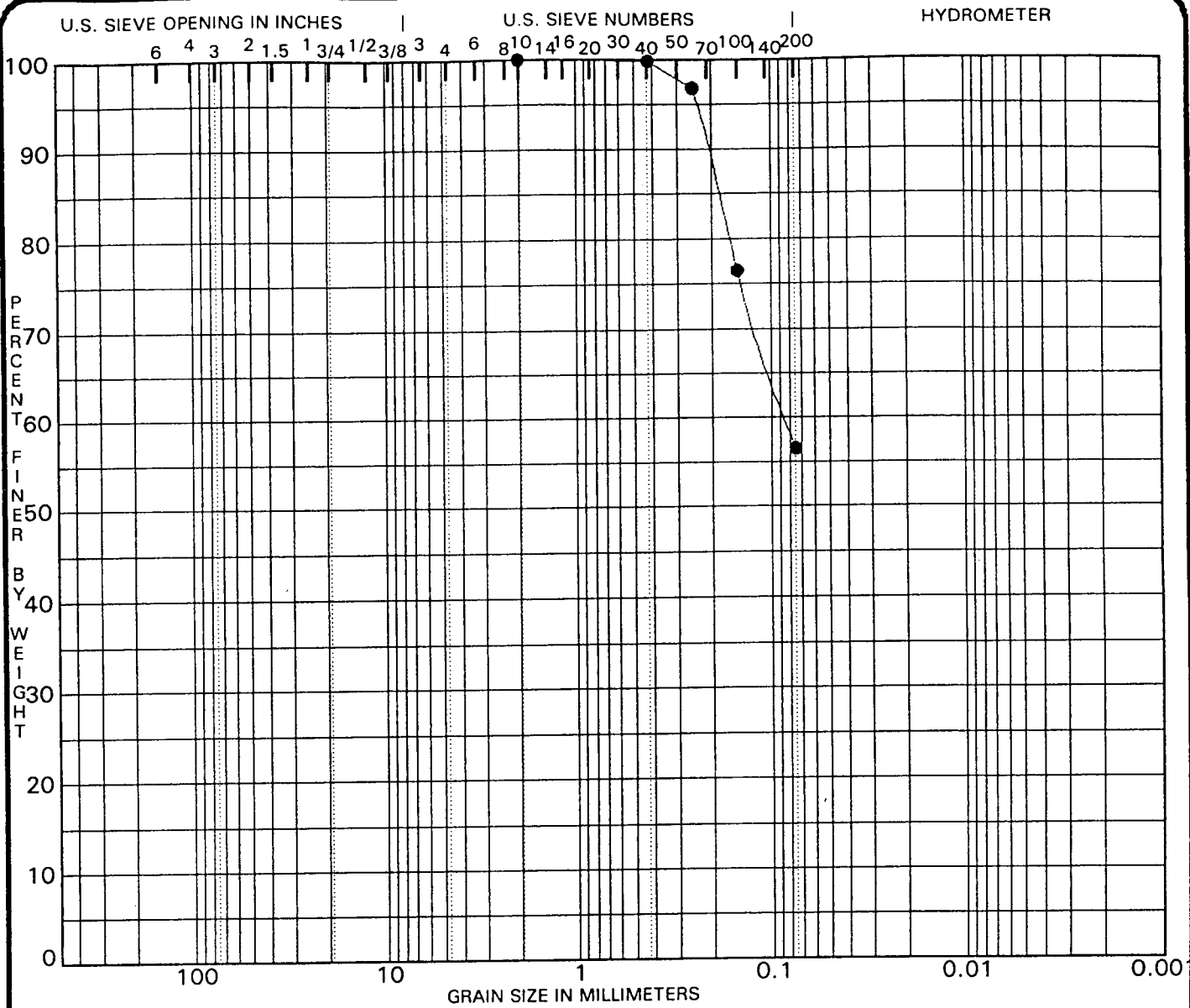
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-8 0.5		25					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-8 0.5	4.75	0.15			0.0	62.9	37.1	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____ DATE 8/6/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA



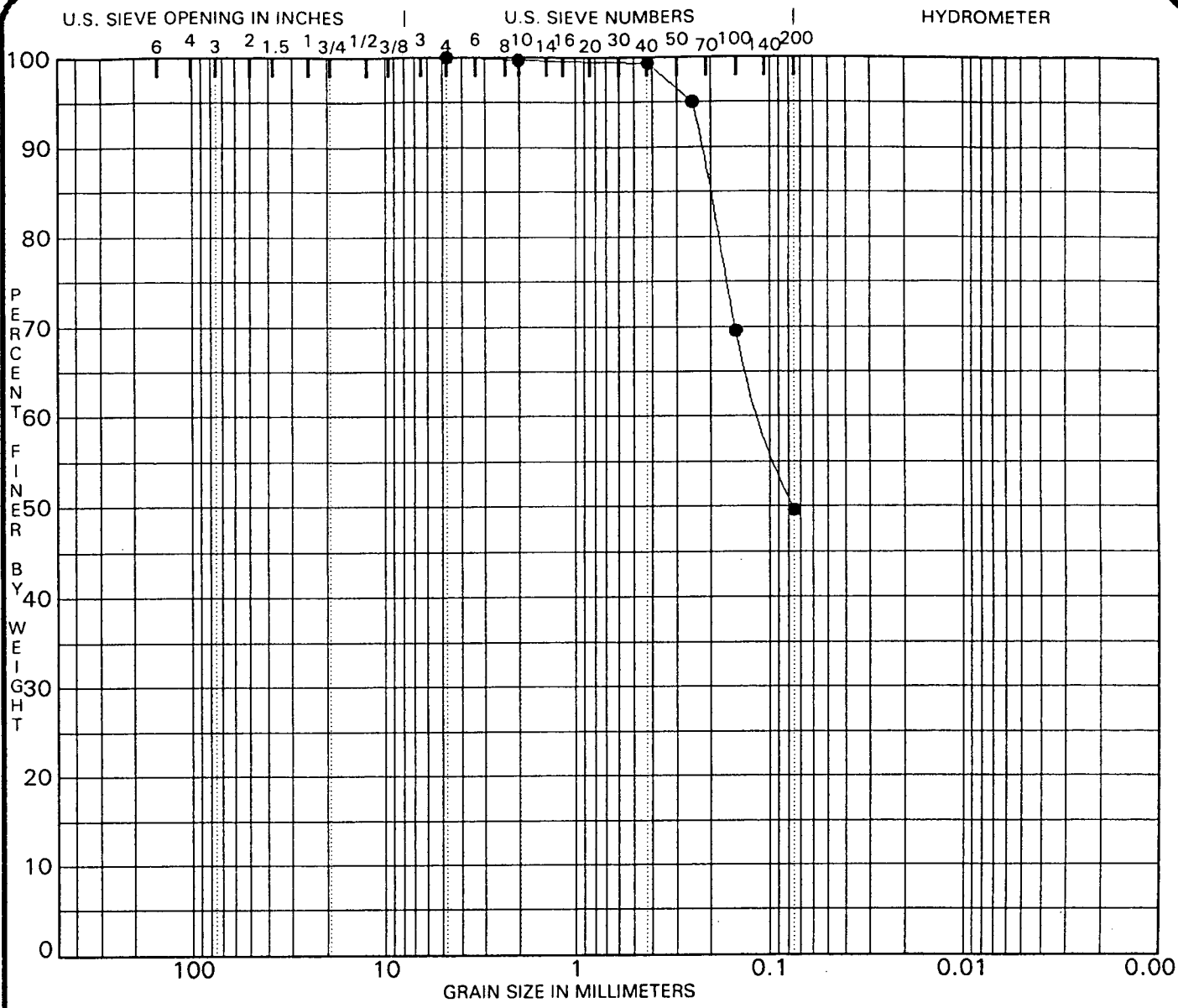
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-8 1.6		31					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-8 1.6	2.00	0.08			0.0	43.5	56.5	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
 DATE 8/6/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-8 2.5		30					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-8 2.5	4.75	0.11			0.0	50.4	49.6	

PROJECT ENTERPRISE ROAD LANDFILL - JOB NO. _____
 DATE 8/6/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA

PROJECT # 99,0331-007-T4
GK274

REPORT ON
 TRIAXIAL PERMEABILITY
 AND PERCENT PASSING NO. 200 SIEVE
 (ASTM D-5084 and ASTM C-117)
 (AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: green/tan/orange/brown clayey sand

Location: ST-1 @ 0-2.5'

Date Tested: 8-06 / 8-07-03

Tested By: Greg Kemp

Date Sampled: (client sample)

Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
14.9	40.3	113.9	2.4 E-08	6.8 E-05

Attention: Miguel Garcia

REMARKS: For informational purposes only.

PROJECT # 99-0331-007-T4

GK274

REPORT ON
TRIAXIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: orange to tan to green sandy clay

Location: ST-2 @ 0-2.5'

Date Tested: 8-07 & 8-08-03

Tested By: Greg Kemp

Date Sampled: client sample

Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
23.8	57.6	0.54	8.1E-09	2.3E-05

Attention: Miguel Garcia

REMARKS: For informational purposes only.

PROJECT# 99.0331-007-T4

GK274

REPORT ON
 TRIAXIAL PERMEABILITY
 AND PERCENT PASSING NO. 200 SIEVE
 (ASTM D-5084 and ASTM C-117)
 (AASHTO T-11)

Client: *Hartman and Associates*

Project: *Enterprise Road Land fill*

Soil Description: *orange to tan clayey sand*

Location: *ST-3 @ 0-2.5'*

Date Tested: *8-06 & 8-07-03*

Tested By: *Greg Kemp*

Date Sampled: *(client sample)*

Sampled By: *client*

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
<i>23.6</i>	<i>45.8</i>	<i>93.9</i>	<i>1.3E-08</i>	<i>3.6E-05</i>

Attention: *Miguel Garcia*

REMARKS: *For informational purposes only.*

PROJECT # 99.0331-007-T4
GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: *Hartmand and Associates*

Project: *Enterprise Road Land fill*

Soil Description: *white to orange sandy clay*

Location: *ST-4 @ 0-2.5'*

Date Tested: *8-06 / 8-07-03*

Tested By: *Greg Kemp*

Date Sampled: *(client sample)*

Sampled By: *client*

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
<i>29.5</i>	<i>69.0</i>	<i>88.3</i>	<i>2.6E-09</i>	<i>7.5E-06</i>

Attention: *Miguel Garcia*

REMARKS: *For informational purposes only.*

PROJECT # 99.0331-007-T4

GK274

REPORT ON
 TRIAXIAL PERMEABILITY
 AND PERCENT PASSING NO. 200 SIEVE
 (ASTM D-5084 and ASTM C-117)
 (AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: white to orange sandy clay

Location: ST-5 @ 0-2.5'

Date Tested: 8-11 & 8-12-03

Tested By: G. Kemp

Date Sampled: 8-01-03

Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
37.1	58.7	84.3	1.5E-08	4.1E-05

Attention: Miguel Garcia

REMARKS: For informational purposes only.

PROJECT # 99.0331-007-T4

GK274

**REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)**

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: white to orange to brown clayey sand

Location: ST-6 @ 0-2.5'

Date Tested: 8-11 & 8-12-03

Tested By: G. Kemp

Date Sampled: 8-01-03

Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
28.6	46.1	87.0	3.6 E-08	1.0 E-04

Attention: Miguel Garcia

REMARKS: For informational purposes only.

PROJECT # 99.0331-007-T4
GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: orange to light brown silty sand

Location: ST-7 @ 0-2.5'

Date Tested: 8/08 & 8/11/03

Tested By: G. Kemp

Date Sampled: client sample

Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
16.4	15.7	116.6	9.4 E-06	2.7 E-02

Attention: Miguel Garcia

REMARKS: For informational purposes only.

PROJECT #99.0331-007.T4
GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: white to orange to brown sandy clay

Location: ST 8 @ 0-2.5'

Date Tested: 8-12-03

Tested By: G. Kemp

Date Sampled: 8-1-03

Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
29.9	52.8	88.7	5.1 E-08	1.5 E-04

Attention: Miguel Garcia

REMARKS: For informational purposes only.

Project # 99-331.007-T4
GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: H: grey to H: green to orange clayey sand

Location: ST-13 @ 8-10'

Date Tested: 9/24/03

Tested By: G. Kemp/L. Bass

Date Sampled: n/s

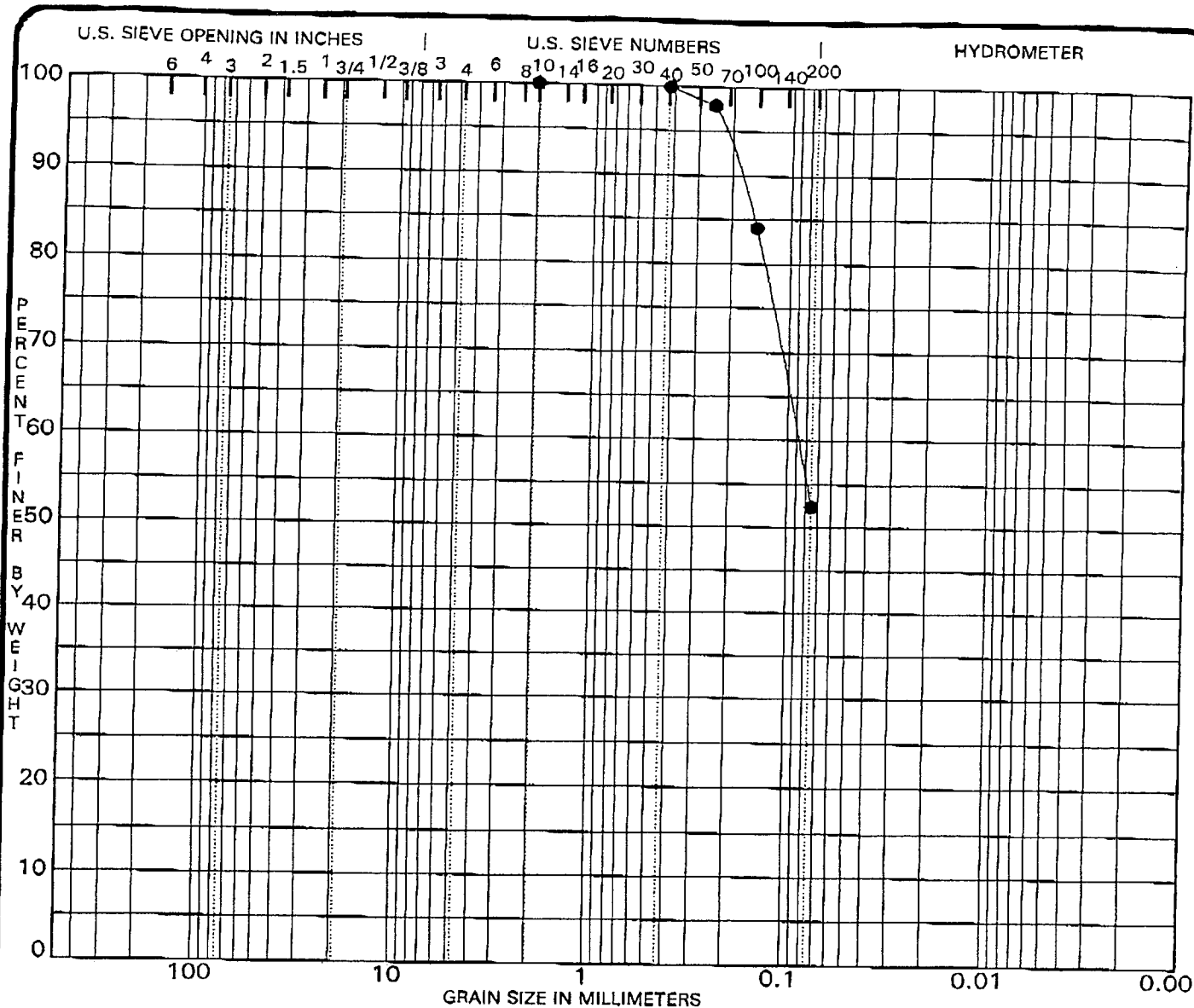
Sampled By: Client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
33.9	47.6	86.3	4.9 E-07	1.4 E-03

Attention: Jim Golden & Luke
H+A ves Tampa

REMARKS: For informational purposes only.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-13 10.0		34					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-13 10.0	2.00	0.09			0.0	47.6	52.4	

PROJECT ENTERPRISE ROAD LANDFILL - FL JOB NO. 99-331.007-T4
 DATE 9/25/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA

HEA PROJECT # 99-331.007-T4
GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: Orange to tan sandy clay

Location: ST-14 @ 4-6'

Date Tested: 9/26/03

Tested By: Greg Kemp

Date Sampled: n/s

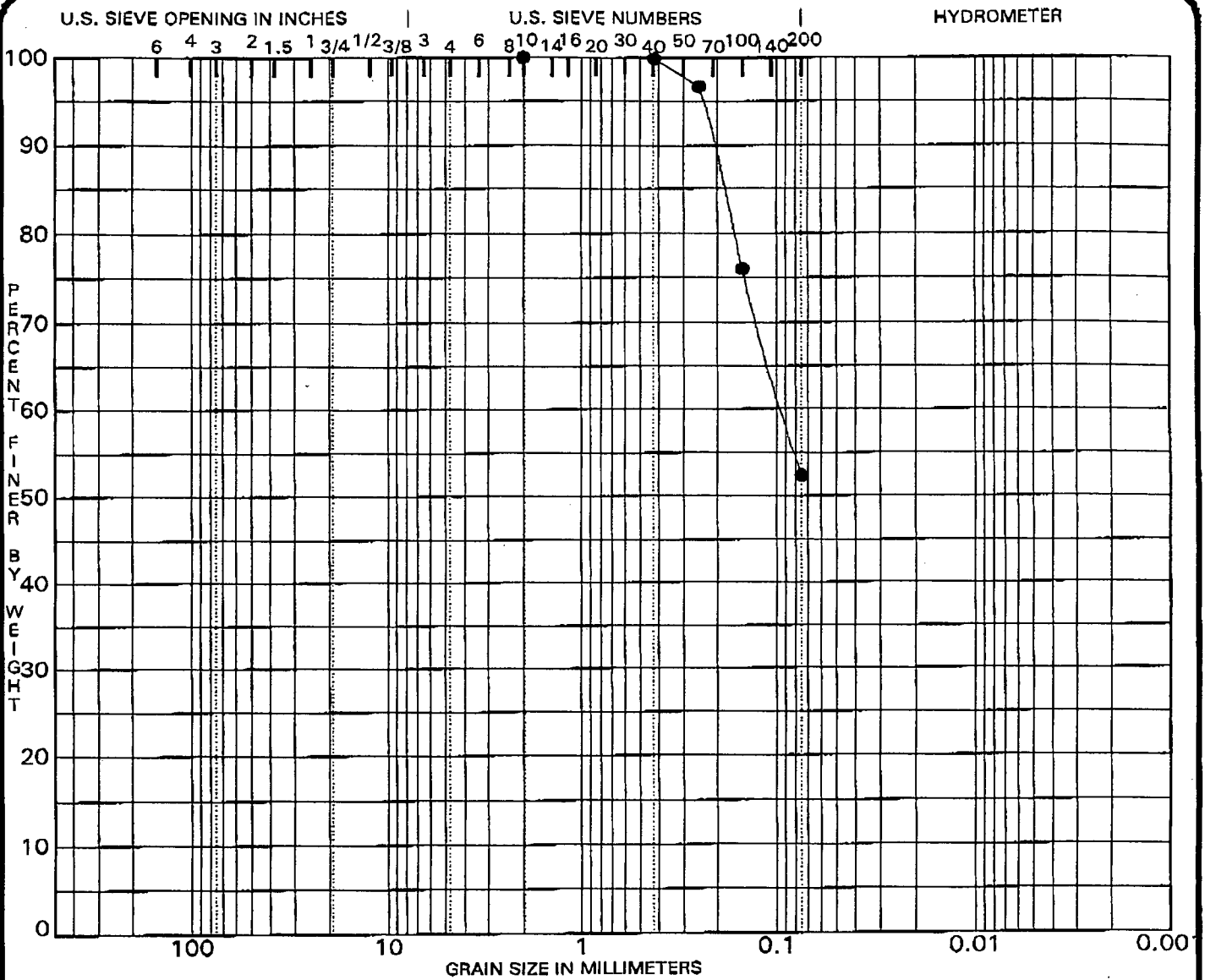
Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
29.9	52.3	90.4	6.7E-08	1.9E-04

Attention: Jim Golden

REMARKS: For informational purposes only.



PROJECT# 99-331007-T4
GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: tan to orangish-brown sandy clay

Location: ST-16

Date Tested: 9-24-03

Tested By: G. Kemp/L. Bass

Date Sampled: nls

Sampled By: client

TEST RESULTS

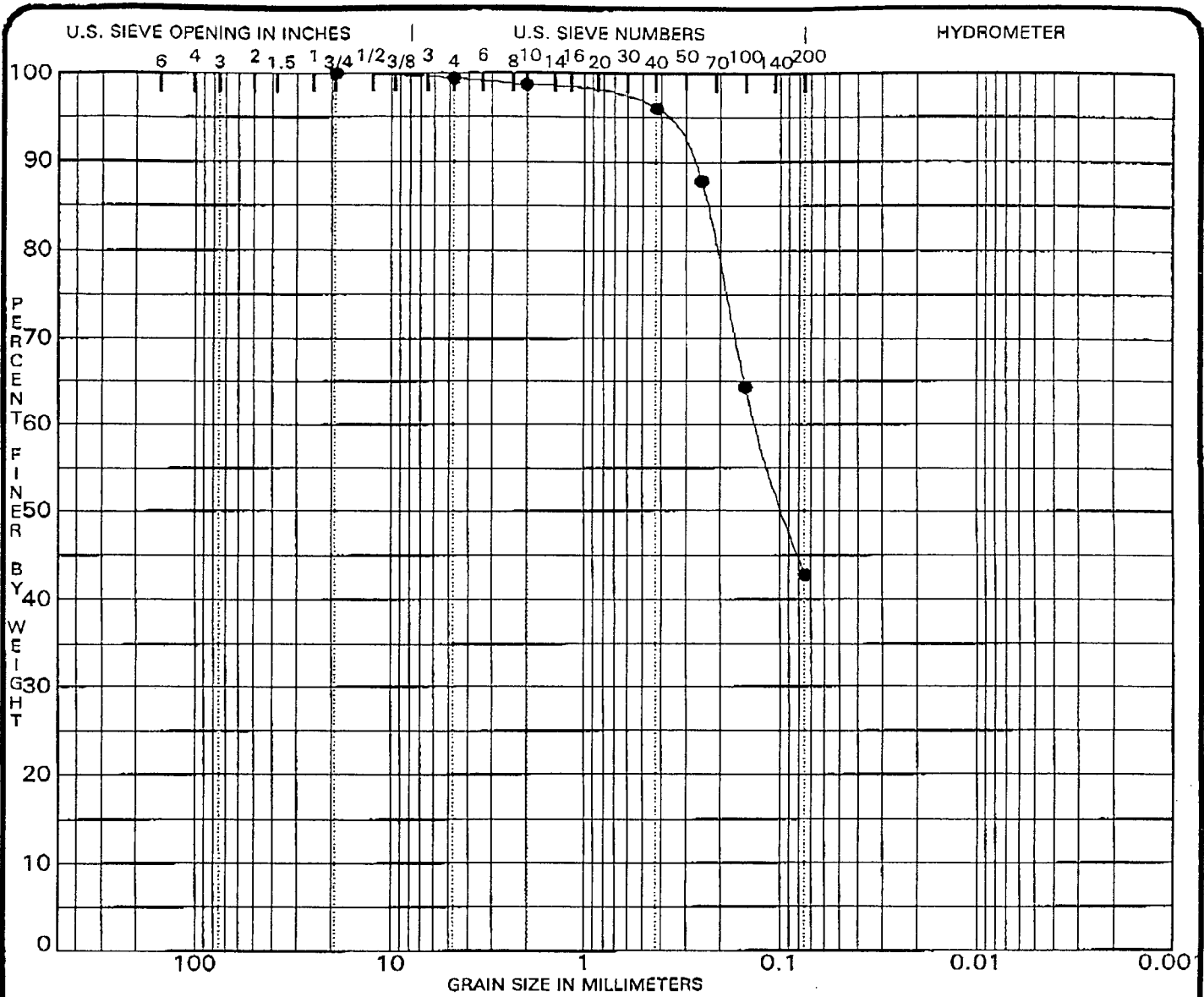
Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
41.9	57.2	73.9	1.9E-07	5.5E-04

Attention: Jim Golden + Luke

H+A

UES Tampa

REMARKS: For informational purposes only.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-16 10.0		42					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-16 10.0	19.00	0.13			0.6	56.6	42.8	

PROJECT ENTERPRISE ROAD LANDFILL - FL

JOB NO. 99-331.007-T4
DATE 9/25/03

GRADATION CURVES
UNIVERSAL ENGINEERING SCIENCES
ORLANDO, FLORIDA

H+A PROJECT # 99-331.007-T4

GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: orange to light tan clayey sand

Location: ST-17 @ 2-4'

Date Tested: 9-30-03

Tested By: Greg Kemp

Date Sampled: n/s

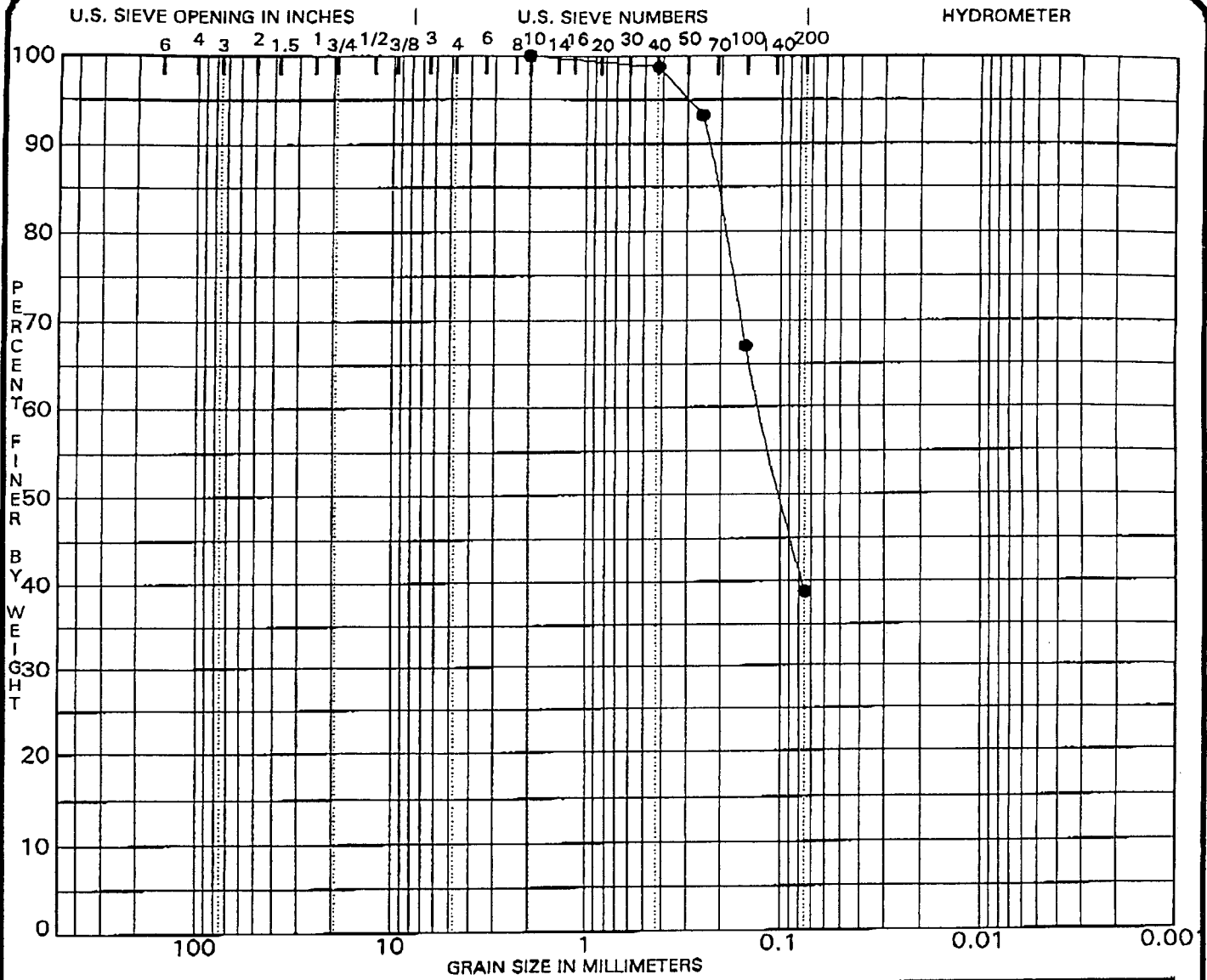
Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
21.5	38.8	110.15	6.9E-08	2.0E-04

Attention: Jim Golden and Miguel Garcia

REMARKS: For informational purposes only.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-17 4.0		21					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-17 4.0	2.00	0.13			0.0	61.2	38.8	

PROJECT ENTERPRISE ROAD LANDFILL - FL JOB NO. 99-331.007-T4
 DATE 9/30/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA

H#A PROJECT #99-331.007-T4

GK274

REPORT ON
TRIAXIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: orange to tan clayey sand

Location: ST-21 @ 32-34'

Date Tested: 9-30-03

Tested By: G. Kemp

Date Sampled: n/s

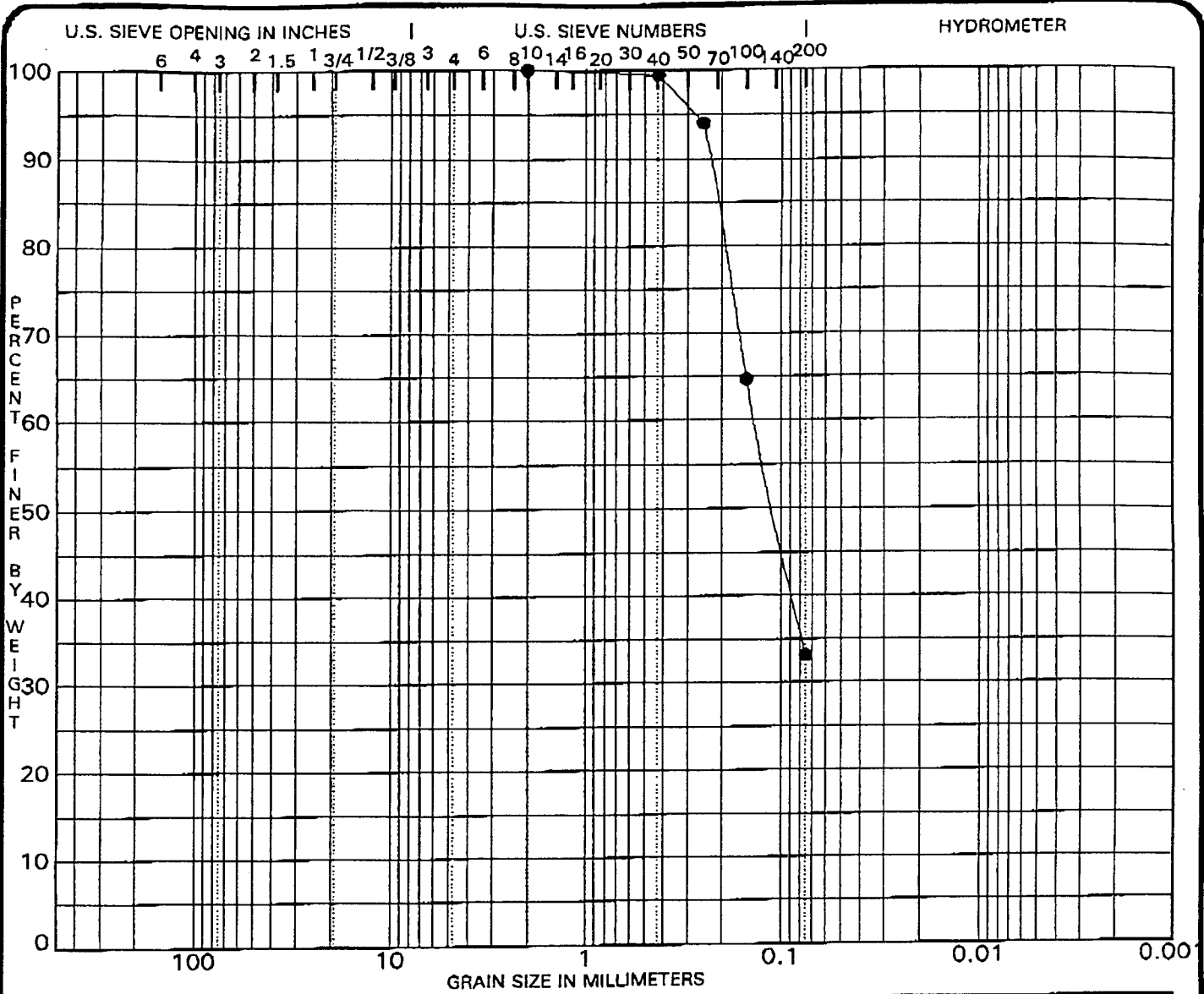
Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
24.7	33.1	94.4	7.5 E-07	2.1E-03

Attention: Jim Golden and Miguel Garcia

REMARKS: For informational purposes only.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● ST-21 34.0		25					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● ST-21 34.0	2.00	0.14			0.0	66.9	33.1	

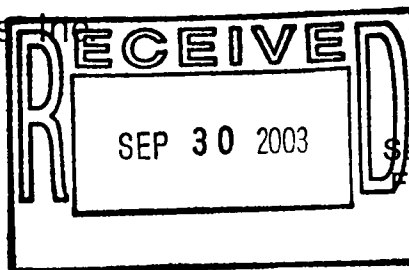
PROJECT ENTERPRISE ROAD LANDFILL - FL JOB NO. 99-331.007-T4
 DATE 9/30/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA



Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants



September 30, 2003
File Number 03-129

Hartman & Associates, Inc.
201 East Pine Street, Suite 1000
Orlando, FL 32801

Attention: Mr. Miguel Garcia

Subject: Particle-Size Analyses of Soil Samples from Enterprise Road Landfill, Dade City, Florida
HAI Job No. 99-0331-007

Gentlemen:

As requested, particle-size analyses have been completed on forty soil samples provided for testing by your firm in accordance with the attached sample inventory. The samples were received in plastic bags. Visual descriptions of the samples, as-received moisture contents (ASTM Standard D 2216) and fines contents (i.e., amount of material finer than the U.S. Standard No. 200 sieve) are presented in Table 1.

The particle-size analyses were performed using sieves in general accordance with ASTM Standard D 422 "Particle-Size Analysis of Soils". The results of the analyses are presented as particle-size distribution curves shown in Figures 1 through 40.

If you have any questions or require additional testing services, please contact us.

Very truly yours,
ARDAMAN & ASSOCIATES, INC.

Shawkat Ali, Ph.D., P.E.
Quality Control Manager

Thomas S. Ingra, P.E.
Laboratory Director
Florida Registration No. 31987

SA/TSI/sa

Hartman & Associates, Inc.
 File Number 03-129
 September 30, 2003

Table 1
VISUAL DESCRIPTION OF SOIL SAMPLES

Sample I.D.	Depth (feet)	Visual Description	As-received w_c (%)	-200 (%)
B-15	4 - 6	Gray clayey sand	36.2	40.3
B-16	4 - 6	Gray to yellowish-brown clayey sand	32.8	49.8
B-17	6 - 8	Light gray to yellowish-brown sandy clay	38.9	63.2
B-18	4 - 6	Yellowish-brown clayey sand	30.4	42.9
B-19	2 - 4	Gray clayey sand	29.7	40.4
B-20	6 - 8	Gray and reddish-brown mottled clayey sand	23.4	33.0
B-21	6 - 8	Light gray clayey sand	38.3	48.5
B-22	40 - 42	Light gray to orangish-brown clayey sand	32.5	37.5
B-23	4 - 6	Light gray to brown clayey sand	15.9	35.2
B-24	4 - 6	Light gray to yellowish-brown clayey sand	25.0	49.1
B-25	6 - 8	Light gray and light brown mottled clay with sand	41.3	76.4
B-26	34 - 36	Yellowish-brown clayey sand	21.3	17.8
B-26	48 - 50	Light brown sandy clay	43.8	57.5
B-27	4 - 6	Light brown clayey sand with trace cemented sand	26.4	43.8
B-28	36 - 38	Light brown clayey sand with lenses of light brown clay	30.6	41.2
B-29	4 - 6	Light gray to light green clayey sand	28.6	39.4
B-30	2 - 4	Light brown sandy clay	37.2	55.9
B-31	6 - 8	Light greenish-gray sandy clay	31.9	53.2
B-32	8 - 10	Light brown clay with sand and fine gravel	25.8	78.4
B-33	2 - 4	Light greenish gray sandy clay	39.9	66.8
B-34	14 - 16	Light greenish gray clayey sand	31.0	47.5
SSA-19	5 - 10	Light brown to orangish-brown sandy clay	28.4	57.1
SSA-20	5 - 10	Orangish-brown clayey sand	18.2	29.4
SSA-21	0 - 5	Light gray to brown sandy clay	31.7	58.5
SSA-22	0 - 5	Light gray clayey sand	22.6	44.9
SSA-23	0 - 5	Light gray clayey sand	20.8	41.2
SSA-24	0 - 5	Light gray to orangish-brown sandy clay	31.8	64.3

Hartman & Associates, Inc.
 File Number 03-129
 September 30, 2003

Table 1 (Continued)
VISUAL DESCRIPTION OF SOIL SAMPLES

Sample I.D.	Depth (feet)	Visual Description	As-received w_c (%)	-200 (%)
SSA-25	0 - 5	Light gray clayey sand	22.9	42.2
SSA-26	5 - 10	Brown clayey sand	25.6	28.6
SSA-27	10 - 15	Brown fine sand with silt and trace roots	18.2	10.7
SSA-28	5 - 10	Light grayish-brown clayey sand	37.7	49.2
SSA-29	5 - 10	Brown and greenish gray mottled clayey sand	30.2	39.5
SSA-30	0 - 5	Light brown to orangish-brown sandy clay	31.7	51.7
SSA-31	0 - 5	Light greenish-gray clayey sand	32.5	47.0
SSA-32	0 - 5	Light gray to brown sandy clay	35.3	58.3
SSA-33	0 - 5	Light to dark gray sandy clay	35.1	52.6
SSA-34	0 - 5	Dark to light gray clayey sand	34.9	49.1
SSA-35	0 - 5	Dark gray to brown clayey sand	23.9	36.1
SSA-36	0 - 5	Light to dark gray sandy clay	36.8	54.2
SSA-37	10 -15	Light gray to orangish-brown sandy clay	26.8	53.3

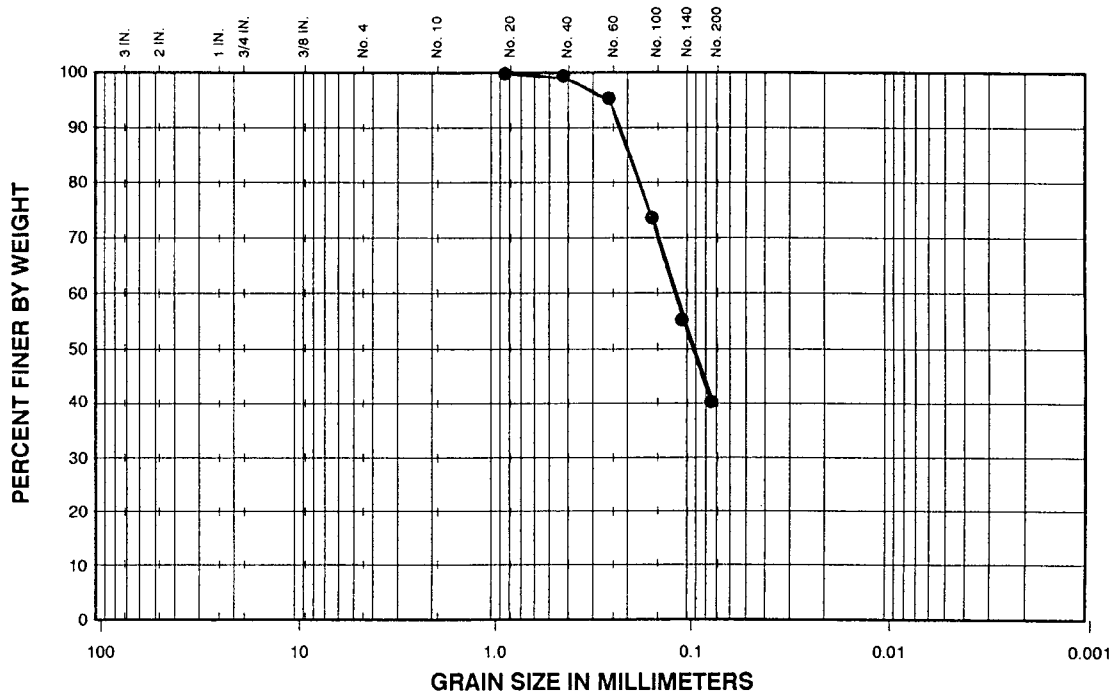
Where: w_c = Moisture content; and -200 = Fines content (i.e., amount of material finer than the U.S. Standard No. 200 sieve)

ANGELO'S AGGREGATE MATERIALS, LTD.
 ENTERPRISE ROAD LANDFILL
 DADE CITY, FL

Sample ID	Depth (ft.)	Description	Location	Elevation (ft)	Analysis	# of Containers
✓ B-15	4-6	Silty-Clay	Cell 15	75.3	Std. Sieve Grain Size	1
✓ B-16	4-6	Clayey-Sand	Cell 1	80.4	Std. Sieve Grain Size	1
✓ B-17	6-8	Sandy-Clay	Cell 1	81.0	Std. Sieve Grain Size	1
✓ B-18	4-6	Sandy-Clay	Cell 1	83.4	Std. Sieve Grain Size	1
✓ B-19	2-4	Sandy-Clay	Cell 16	74.9	Std. Sieve Grain Size	1
✓ B-20	6-8	Clayey-Sand	Cell 16	75.2	Std. Sieve Grain Size	1
✓ B-21	6-8	Clayey-Sand	Cell 16	75.3	Std. Sieve Grain Size	1
✓ B-22	40-42	Sandy-Clay	Cell 16	75.2	Std. Sieve Grain Size	1
✓ B-23	4-6	Clayey-Sand	Cell 16	75.0	Std. Sieve Grain Size	1
✓ B-24	4-6	Silty-Clay	Cell 15	75.2	Std. Sieve Grain Size	1
✓ B-25	6-8	Silty-Clay	Cell 15	75.6	Std. Sieve Grain Size	1
✓ B-26	37-36 & 48-50	Silty-Sand, Silty-Clay	Cell 16	75.0	Std. Sieve Grain Size	2
✓ B-27	4-6	Sandy-Clay	Cell 15	74.9	Std. Sieve Grain Size	1
✓ B-28	36-38	Clayey-Sand	Cell 14	-96	Std. Sieve Grain Size	1
✓ B-29	4-6	Silty-Clay	Cell 15	75.0	Std. Sieve Grain Size	1
✓ B-30	2-4	Silty-Clay	Cell 15	75.1	Std. Sieve Grain Size	1
✓ B-31	6-8	Clayey-Sand	Cell 15	75.0	Std. Sieve Grain Size	1
✓ B-32	8-10	Silty-Clay	Cell 15	75.0	Std. Sieve Grain Size	1
✓ B-33	2-4	Clay	Cell 15	75.5	Std. Sieve Grain Size	1
✓ B-34	14-16	Clayey-Sand	Cell 15	75.4	Std. Sieve Grain Size	1
SSA-19	5-10	Sandy-Clay	Cell 1	84.9	Std. Sieve Grain Size	1
SSA-20	5-10	Clayey-Sand	Cell 1	84.4	Std. Sieve Grain Size	1
SSA-21	0-5	Sandy-Clay	Cell 1	82.8	Std. Sieve Grain Size	1
SSA-22	0-5	Sandy-Clay	Cell 1	82.3	Std. Sieve Grain Size	1
SSA-23	0-5	Sandy-Clay	Cell 1	80.7	Std. Sieve Grain Size	1
SSA-24	0-5	Sandy-Clay	Cell 1	80.1	Std. Sieve Grain Size	1
SSA-25	0-5	Sandy-Clay	Cell 15	74.3	Std. Sieve Grain Size	1
SSA-26	5-10	Silty-Clay	Cell 16	75.0	Std. Sieve Grain Size	1
SSA-27	10-15	Silty-Sand	Cell 16	74.8	Std. Sieve Grain Size	1
SSA-28	5-10	Silty-Clay	Cell 16	75.1	Std. Sieve Grain Size	1
SSA-29	5-10	Silty-Clay	Cell 16	76.8	Std. Sieve Grain Size	1
SSA-30	0-5	Silty-Clay	Cell 16	75.1	Std. Sieve Grain Size	1
SSA-31	0-5	Sandy-Clay	Cell 15	75.5	Std. Sieve Grain Size	1
SSA-32	0-5	Silty-Clay	Cell 15	75.0	Std. Sieve Grain Size	1
SSA-33	0-5	Silty-Clay	Cell 15	75.3	Std. Sieve Grain Size	1
SSA-34	0-5	Silty-Clay	Cell 15	74.9	Std. Sieve Grain Size	1
SSA-35	0-5	Sandy-Clay	Cell 15	75.3	Std. Sieve Grain Size	1
SSA-36	0-5	Silty-Clay	Cell 16	74.9	Std. Sieve Grain Size	1
SSA-37	10-15	Sandy-Clay	Cell 1 (Eastern slope)	-103	Std. Sieve Grain Size	1


RECEIVED
 SEP - 9 2003
 BY: PM

U.S. STANDARD SIEVE SIZE

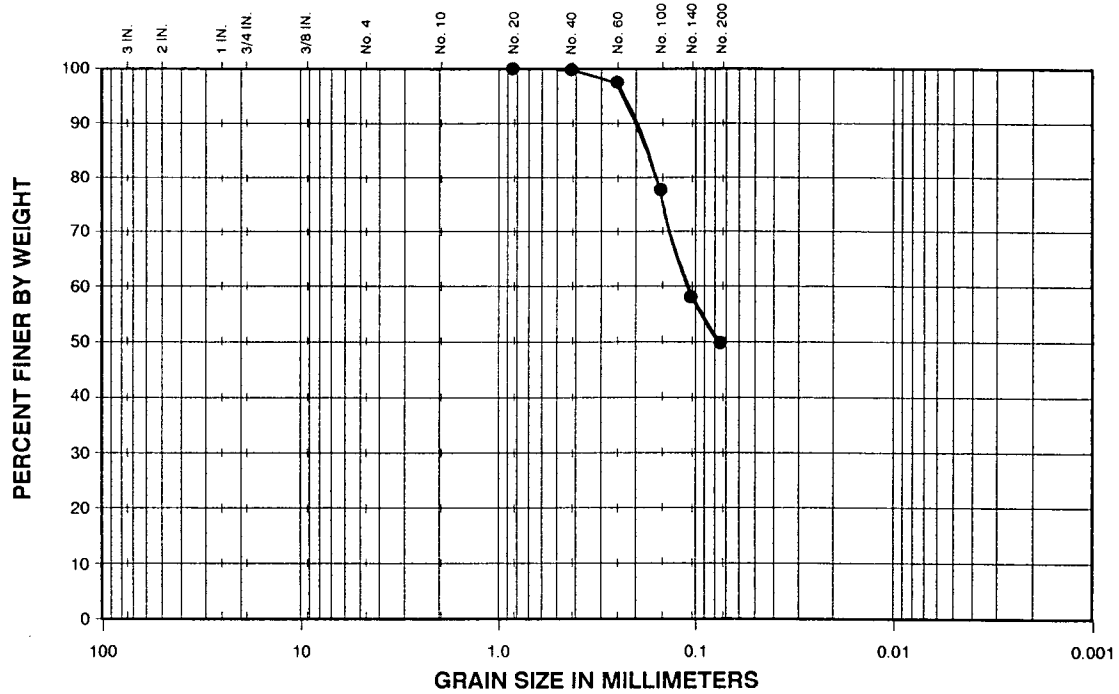


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-15, 4.0-6.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: <i>TM</i>	FIGURE: 1	

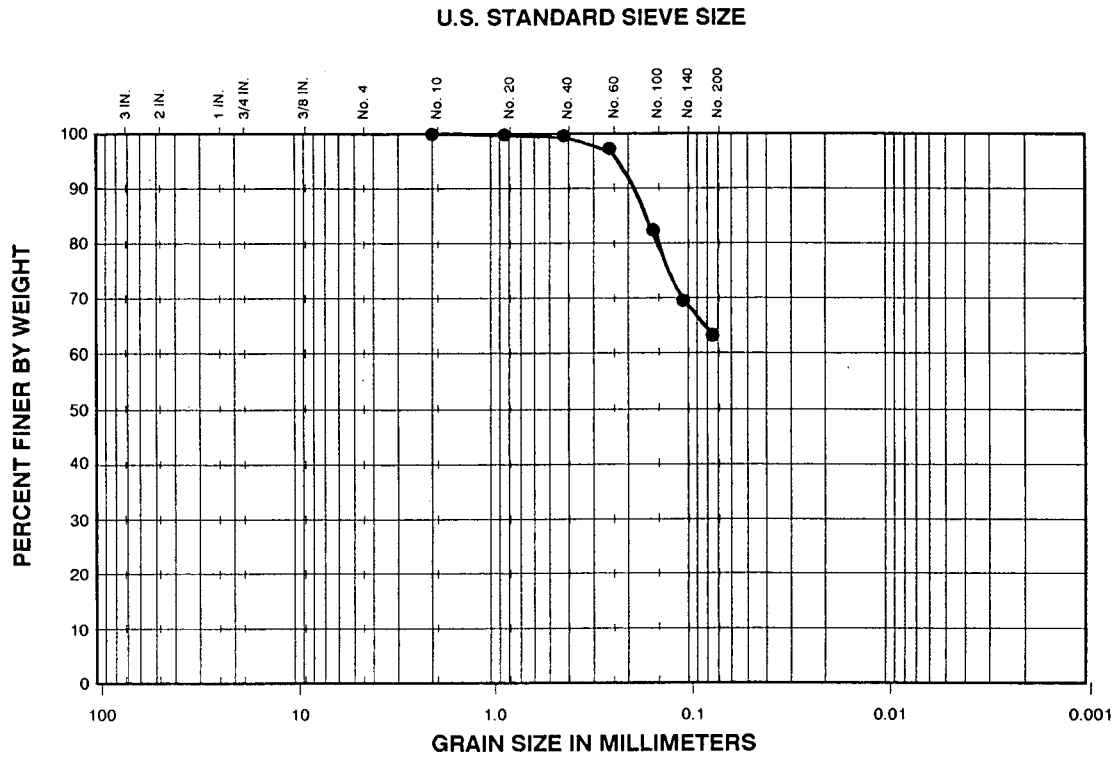
U.S. STANDARD SIEVE SIZE



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-16, 4.0-6.0 FEET

 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: <i>TM</i>	FIGURE: 2	

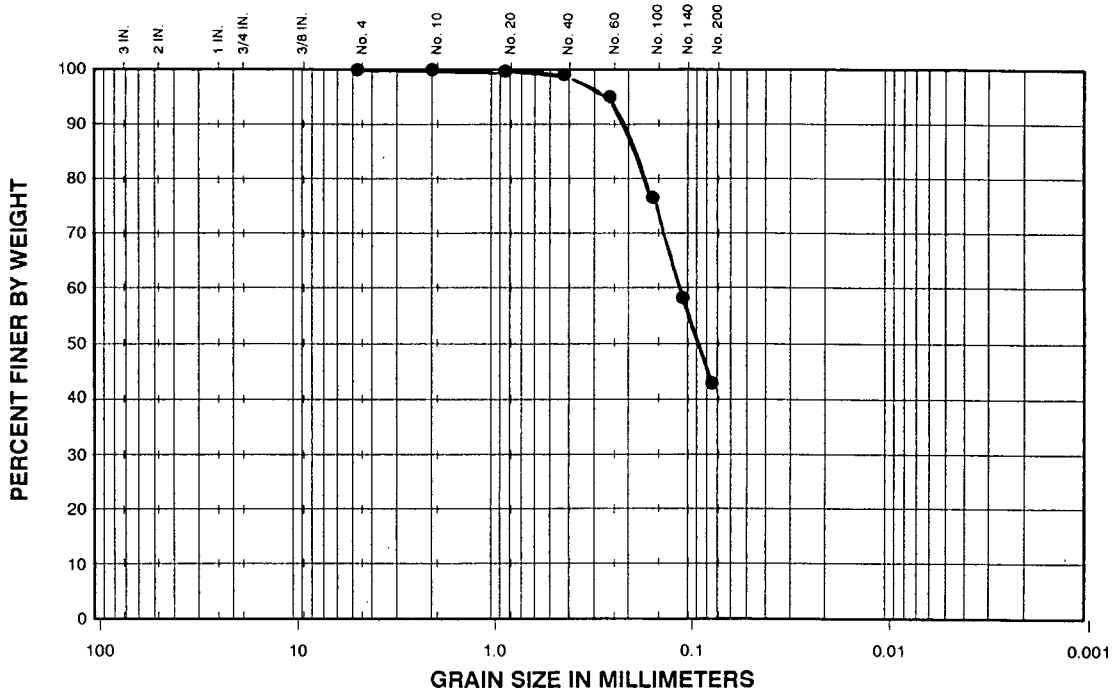


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-17, 6.0-8.0 FEET



Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY:	NS	CHECKED BY:	SA
DATE:	09-29-03		
FILE NO.:	03-129	APPROVED BY:	
FIGURE:	3		

U.S. STANDARD SIEVE SIZE

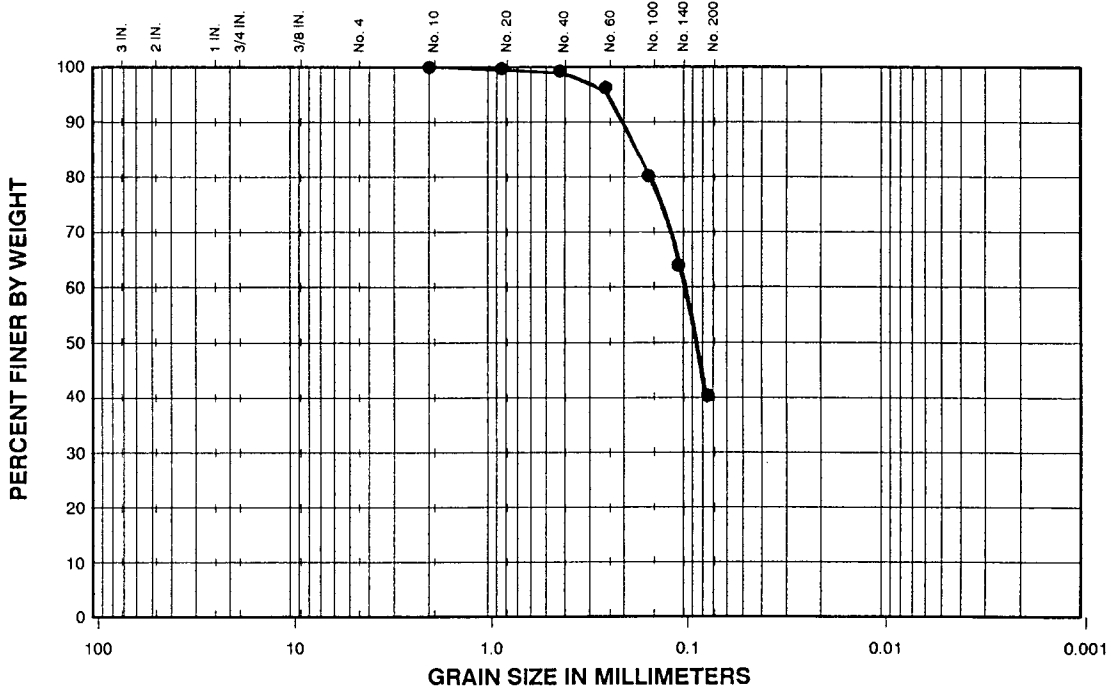


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-18, 4.0-6.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 4

U.S. STANDARD SIEVE SIZE

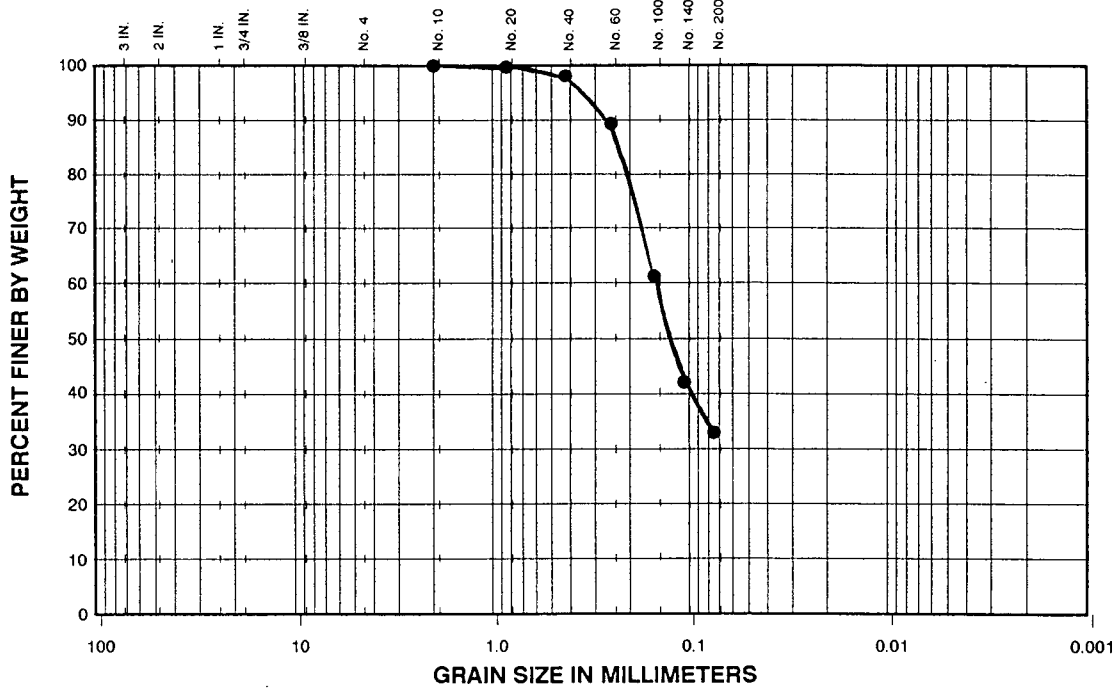


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-19, 2.0-4.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-25-03	
FILE NO: 03-129	APPROVED BY: <i>JM</i>	FIGURE: 5	

U.S. STANDARD SIEVE SIZE

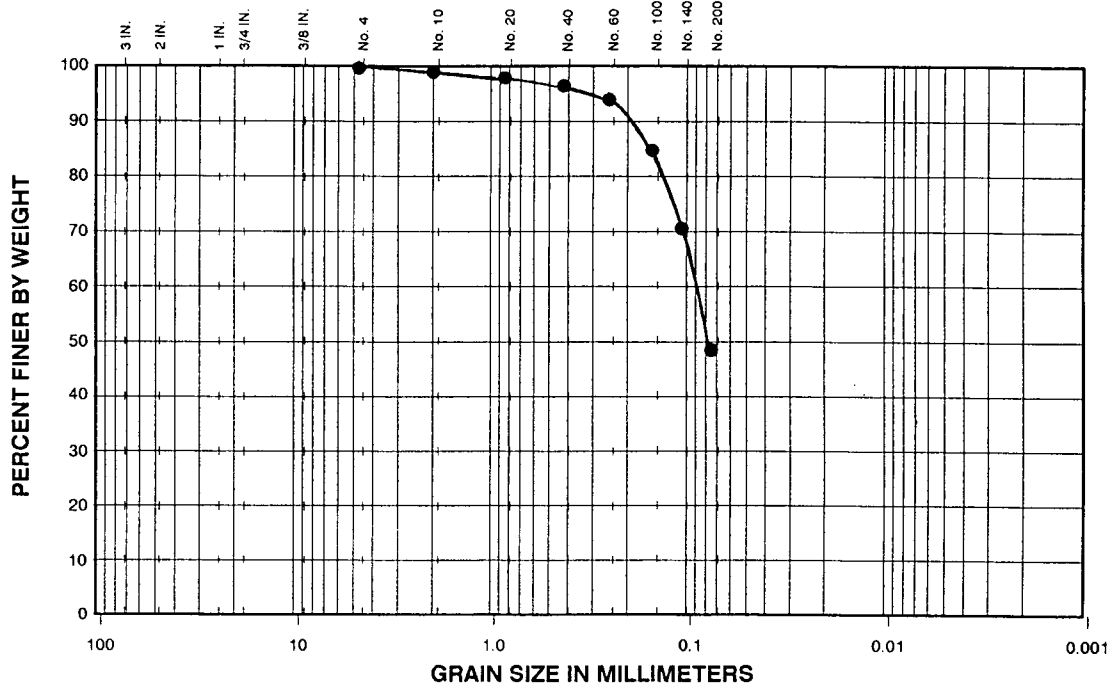


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-20, 6.0-8.0 FEET



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HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 6	

U.S. STANDARD SIEVE SIZE

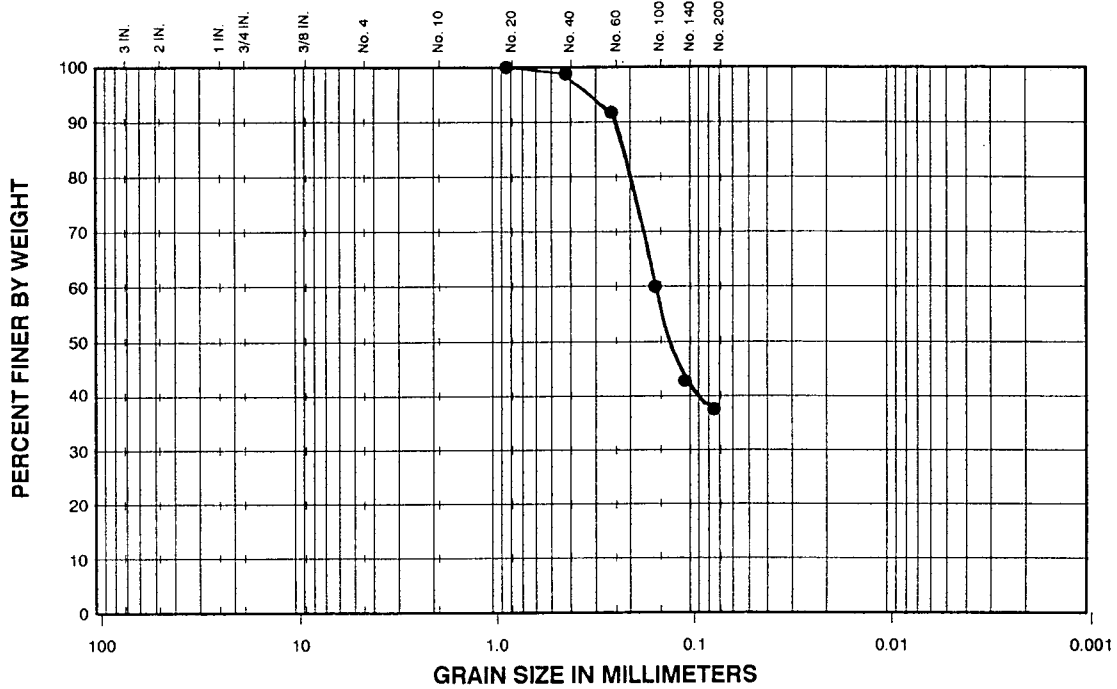


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-21, 6.0-8.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 7	

U.S. STANDARD SIEVE SIZE

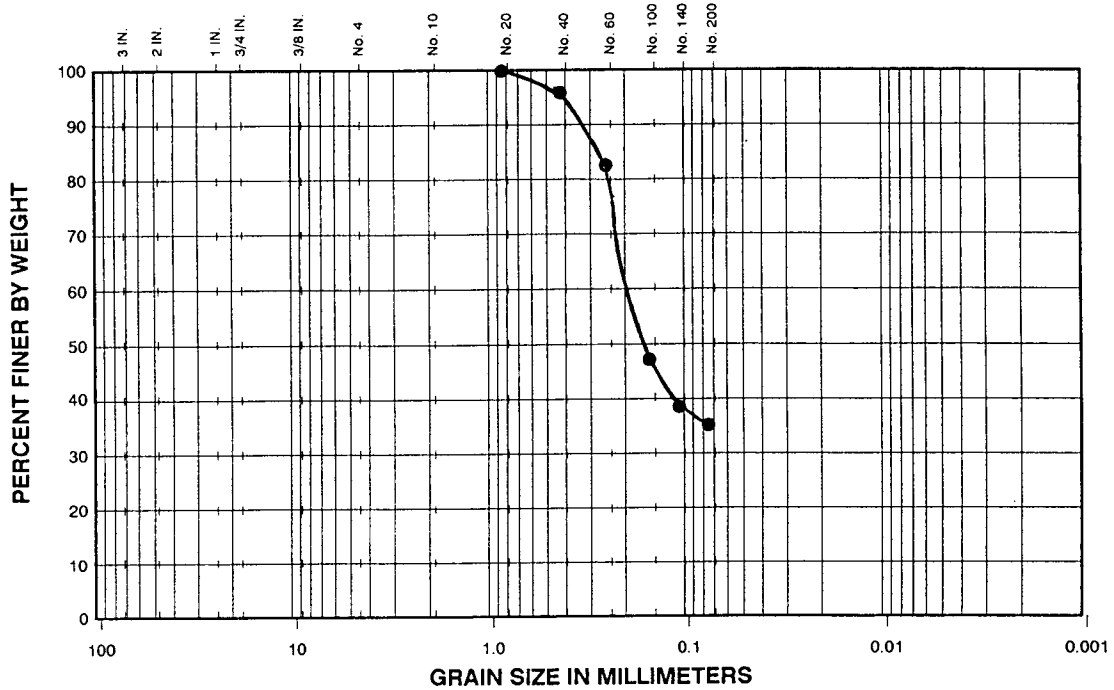


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-22, 40.0-42.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 8	

U.S. STANDARD SIEVE SIZE

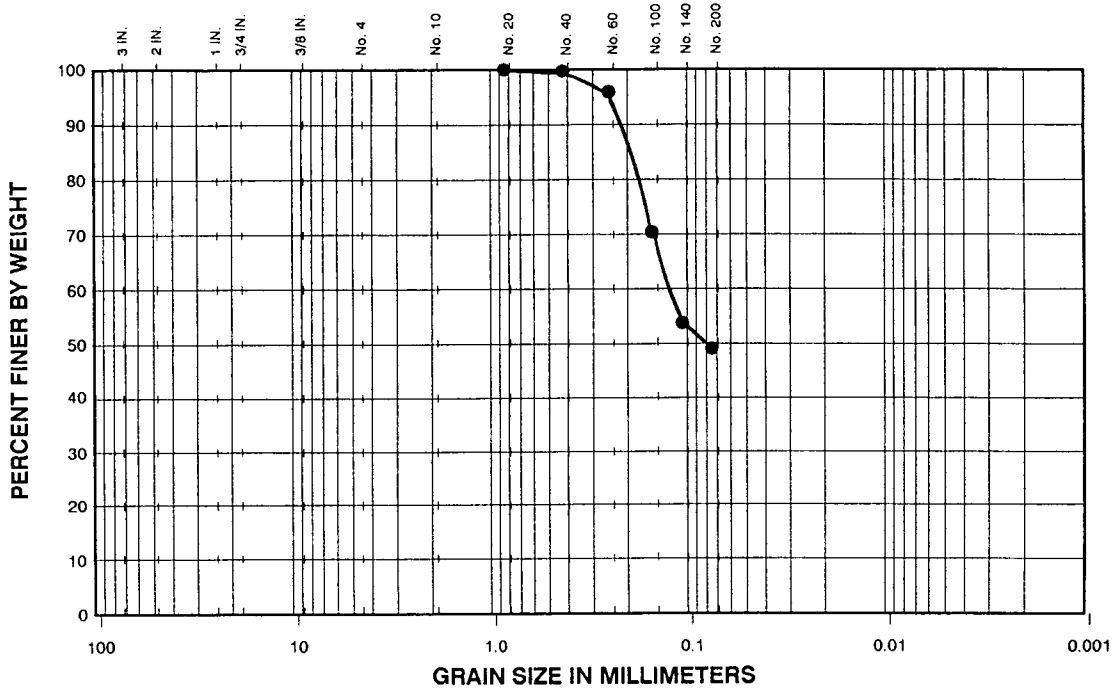


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-23, 4.0-6.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 9	

U.S. STANDARD SIEVE SIZE

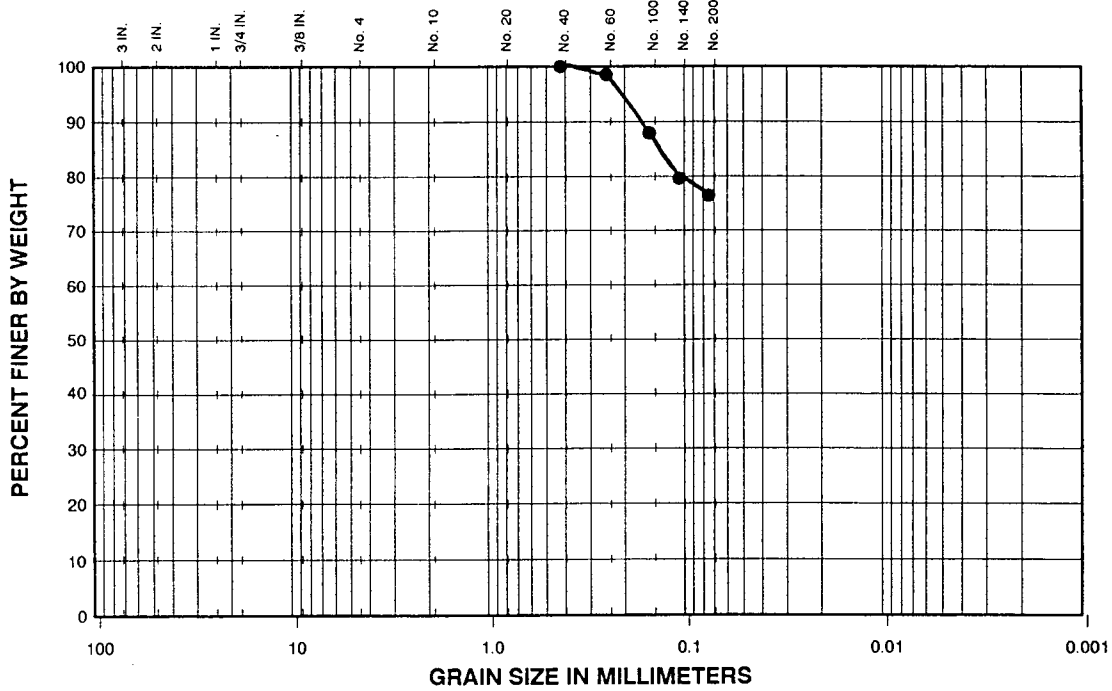


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-24, 4.0-6.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 10	

U.S. STANDARD SIEVE SIZE

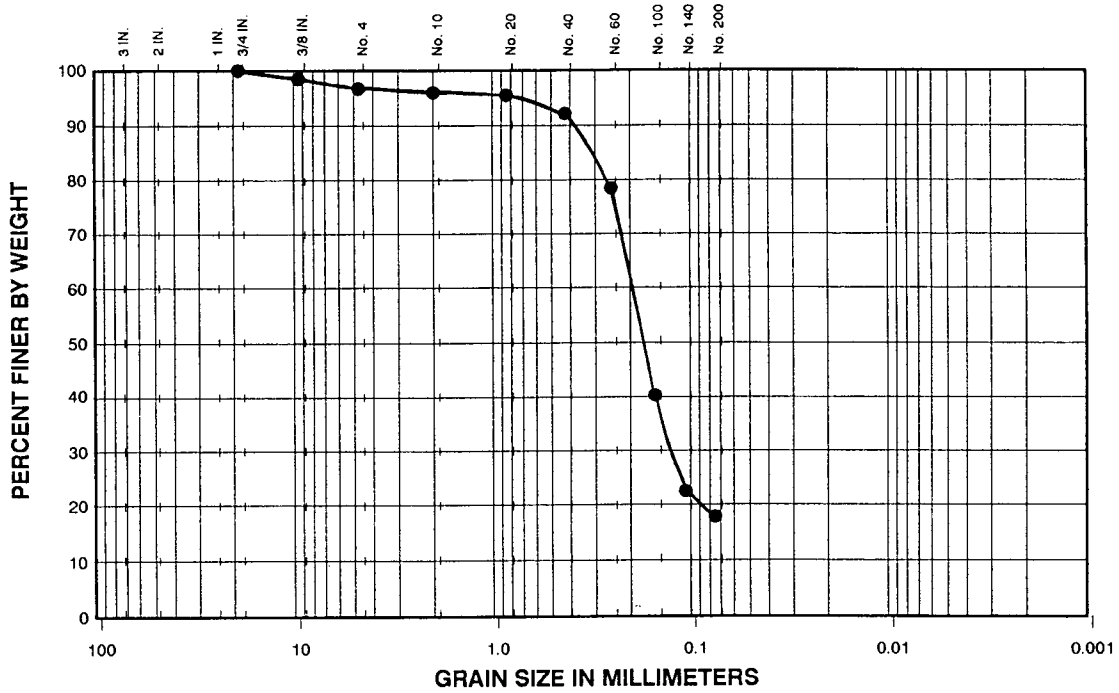


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-25, 6.0-8.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 11	

U.S. STANDARD SIEVE SIZE

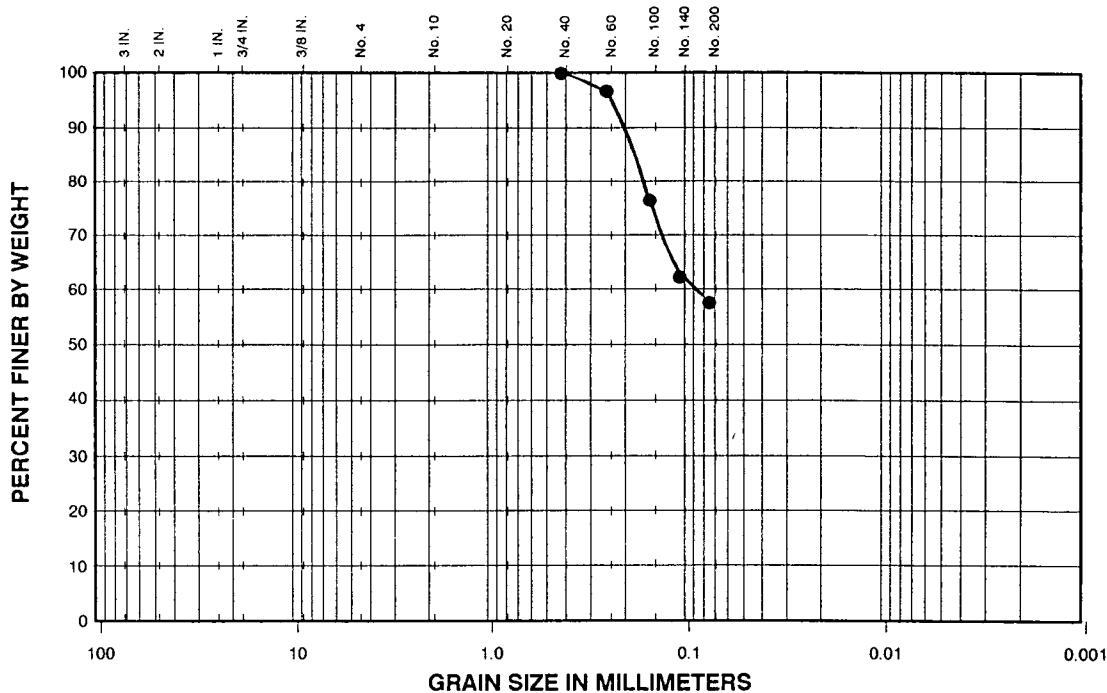


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-26, 34.0-36.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 12	

U.S. STANDARD SIEVE SIZE

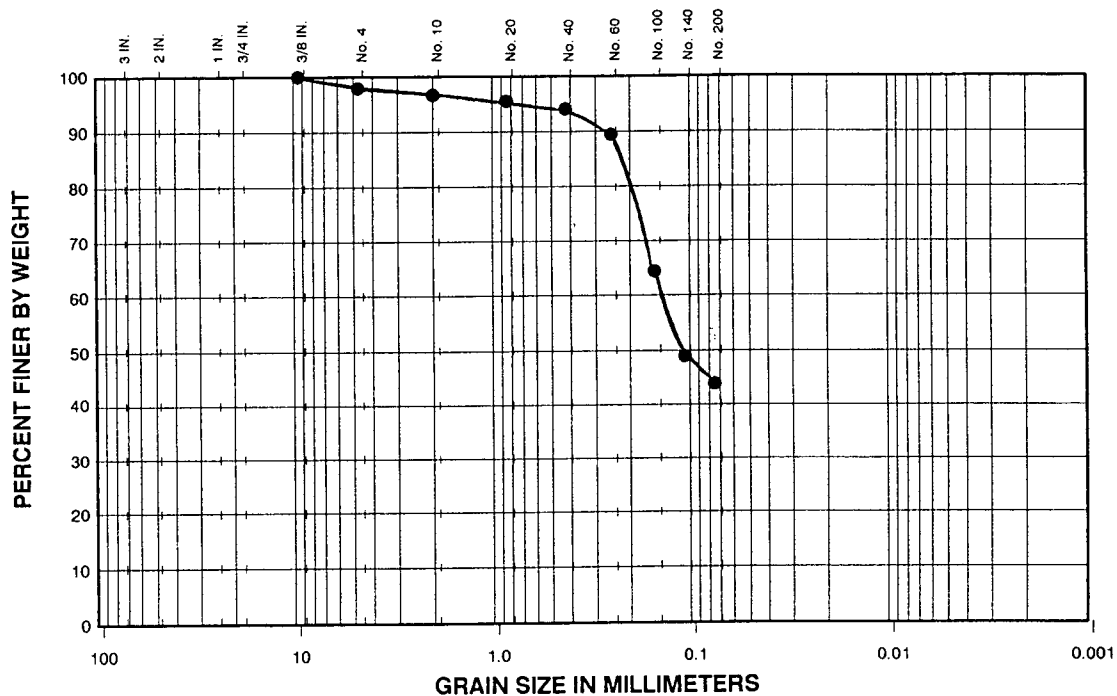


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-26, 48.0-50.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 13

U.S. STANDARD SIEVE SIZE

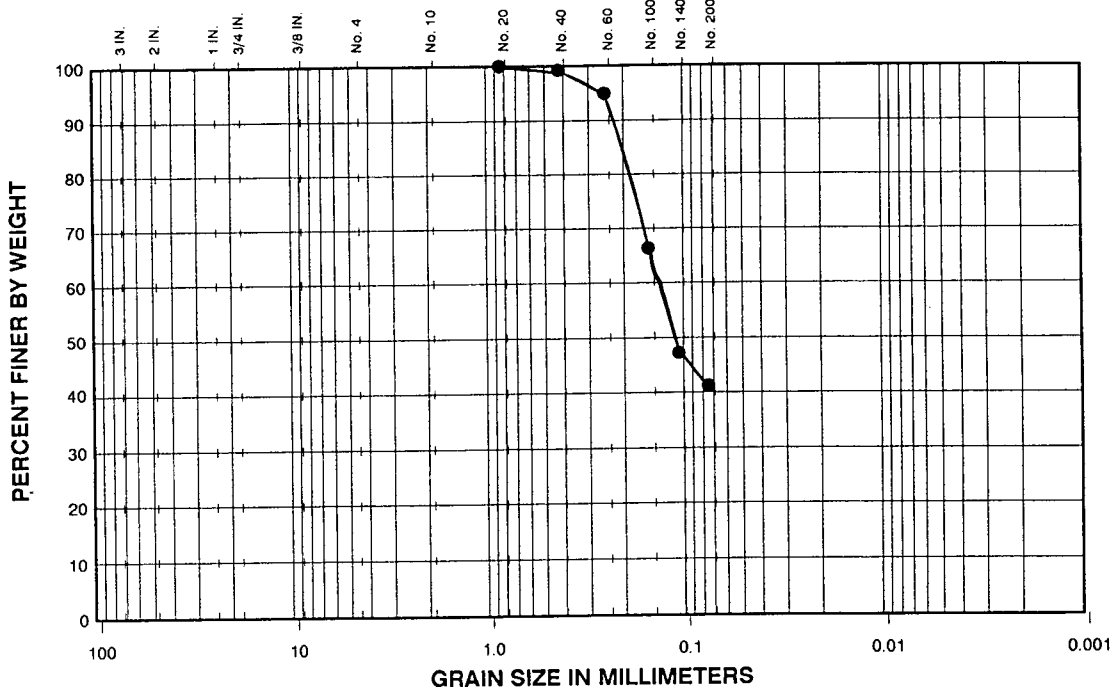


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-27, 4.0-6.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 14	

U.S. STANDARD SIEVE SIZE

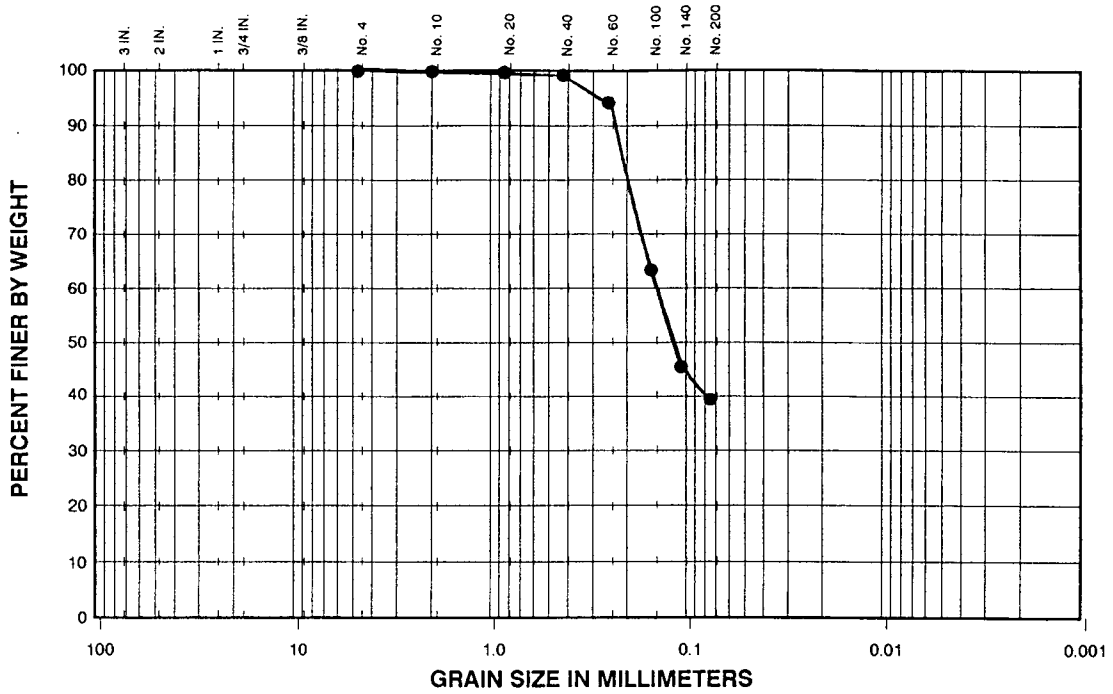


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-28, 36.0-38.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO: 03-129	APPROVED BY: 	FIGURE: 15	

U.S. STANDARD SIEVE SIZE

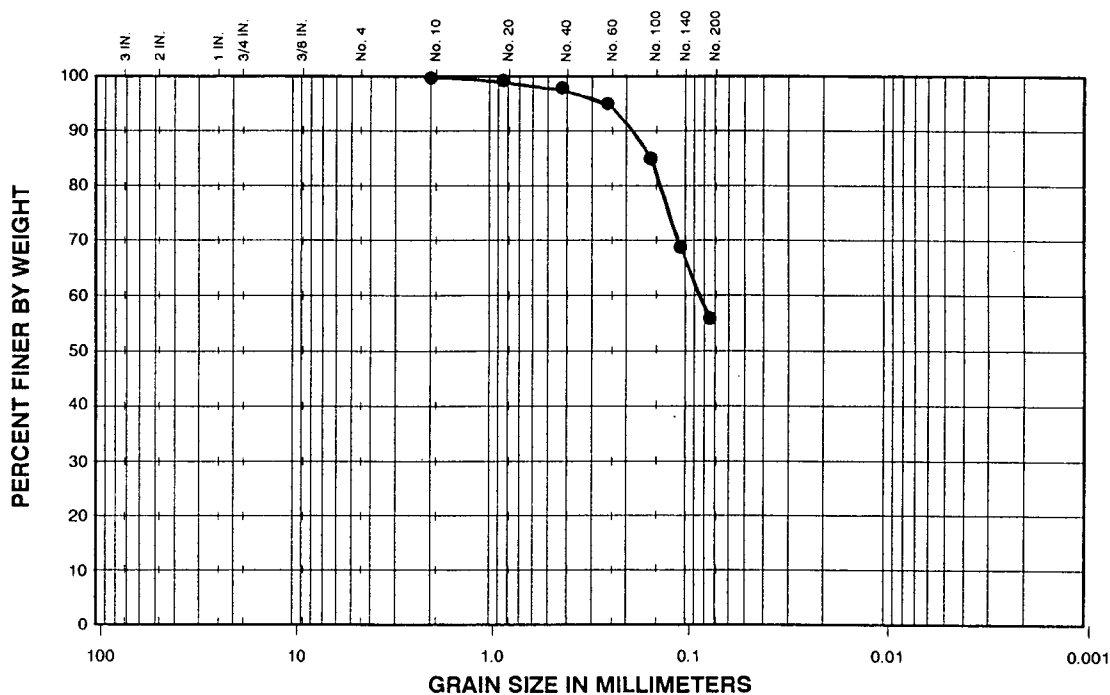


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-29, 4.0-6.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY:	NS	CHECKED BY:	SA
FILE NO.:	03-129	APPROVED BY:	
DATE:	09-29-03	FIGURE:	16

U.S. STANDARD SIEVE SIZE

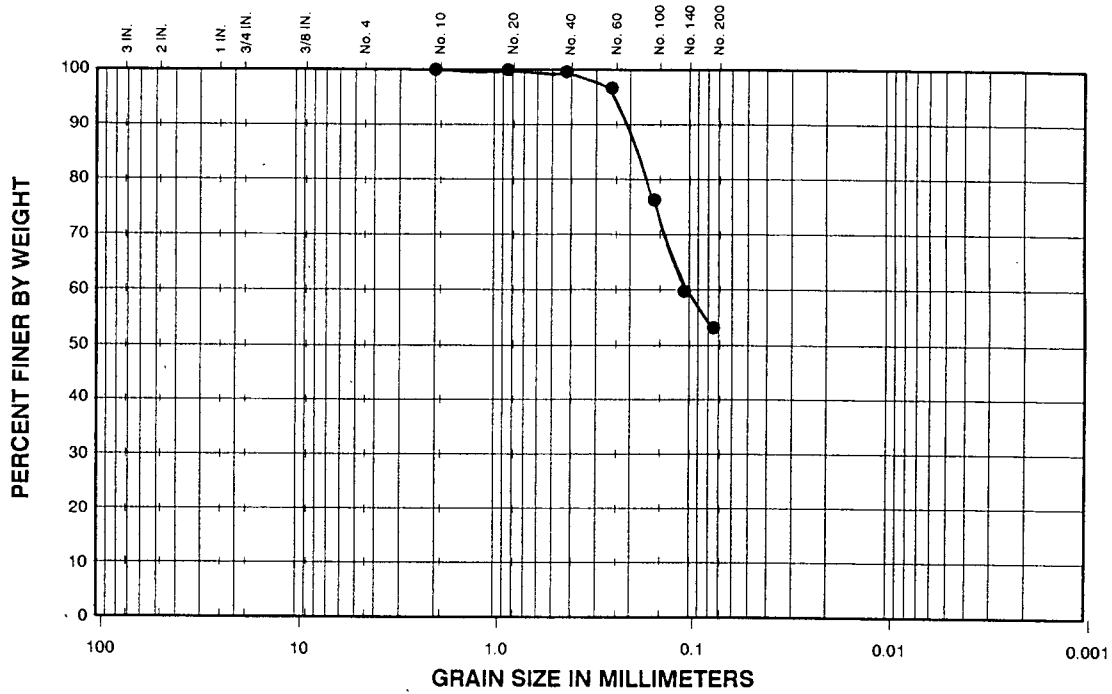


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-30, 2.0-4.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 17

U.S. STANDARD SIEVE SIZE

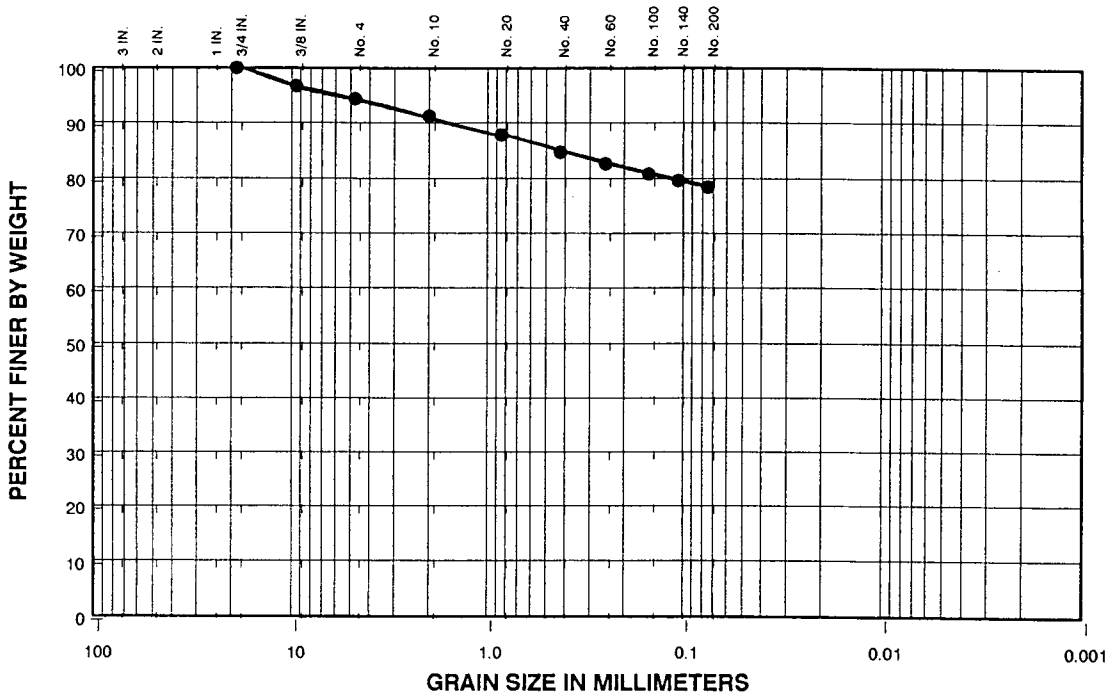


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-31, 6.0-8.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO: 03-129	APPROVED BY: 	FIGURE: 18	

U.S. STANDARD SIEVE SIZE

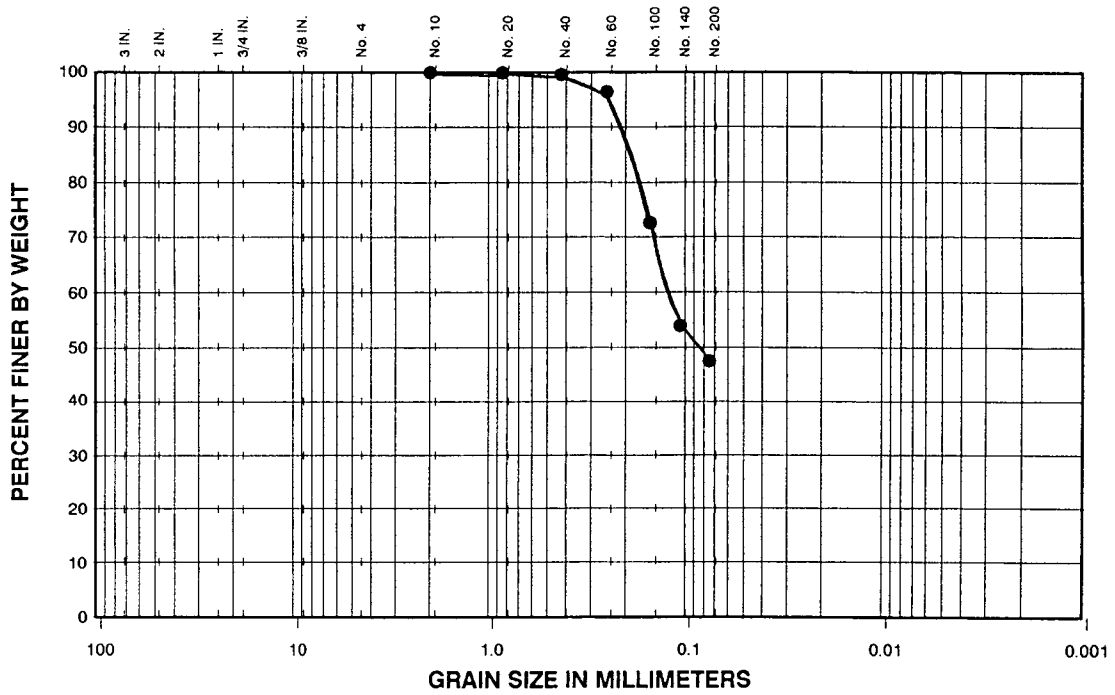


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-32, 8.0-10.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 19	

U.S. STANDARD SIEVE SIZE

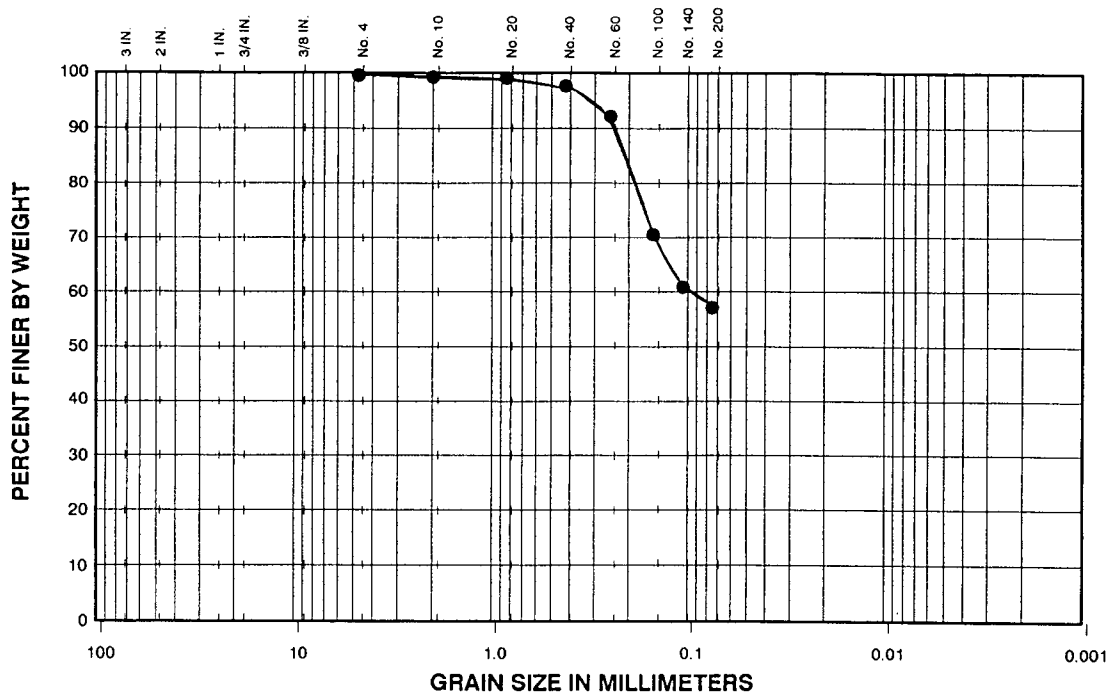


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE B-34, 14.0-16.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: TM	FIGURE: 21	

U.S. STANDARD SIEVE SIZE

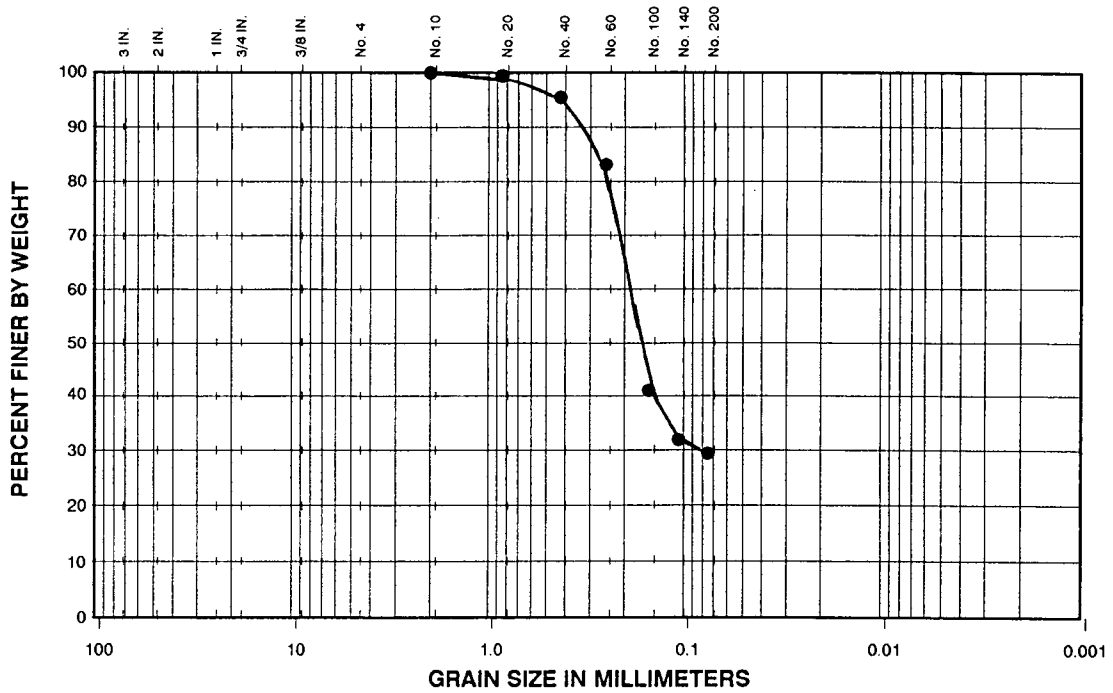


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-19, 5.0-10.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03
FILE NO.: 03-129	APPROVED BY: <i>TM</i>	FIGURE: 22

U.S. STANDARD SIEVE SIZE

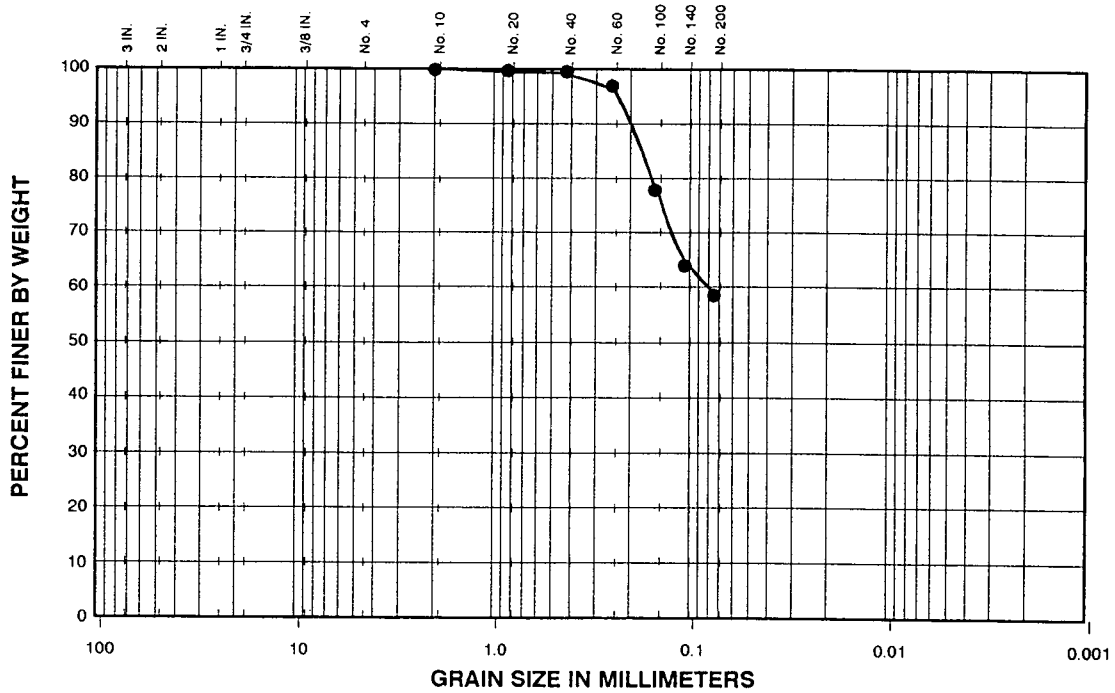


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-20, 5.0-10.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY:	NS	CHECKED BY:	SA
FILE NO.:	03-129	APPROVED BY:	<i>TM</i>
DATE:	09-29-03	FIGURE:	23

U.S. STANDARD SIEVE SIZE

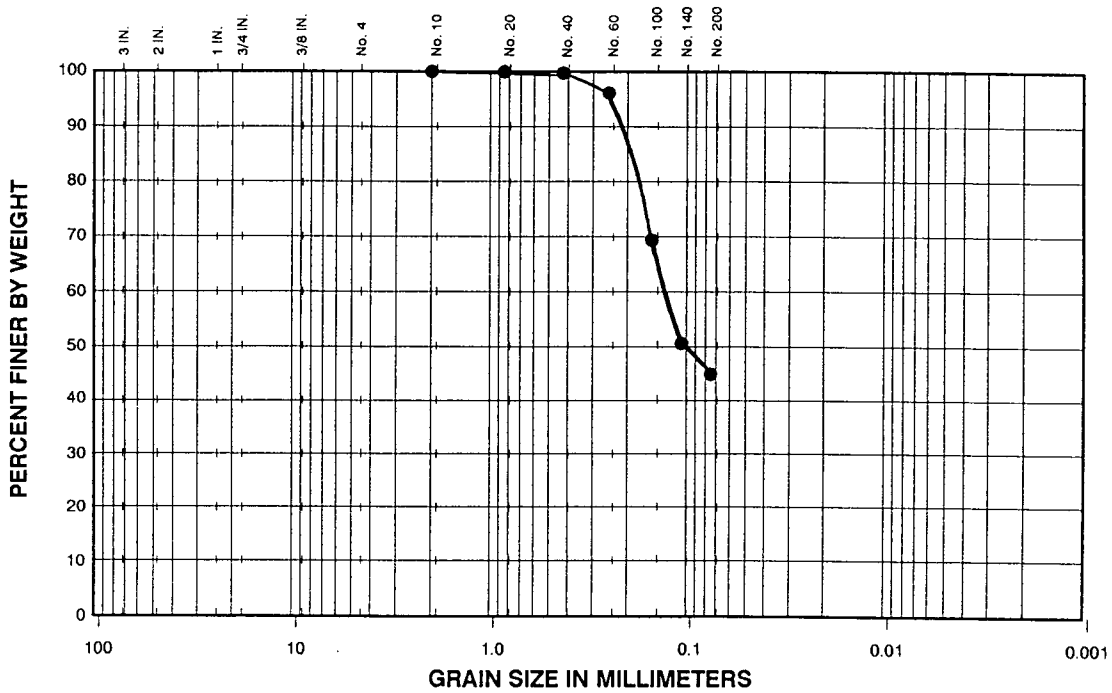


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-21, 0.0-5.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 24	

U.S. STANDARD SIEVE SIZE

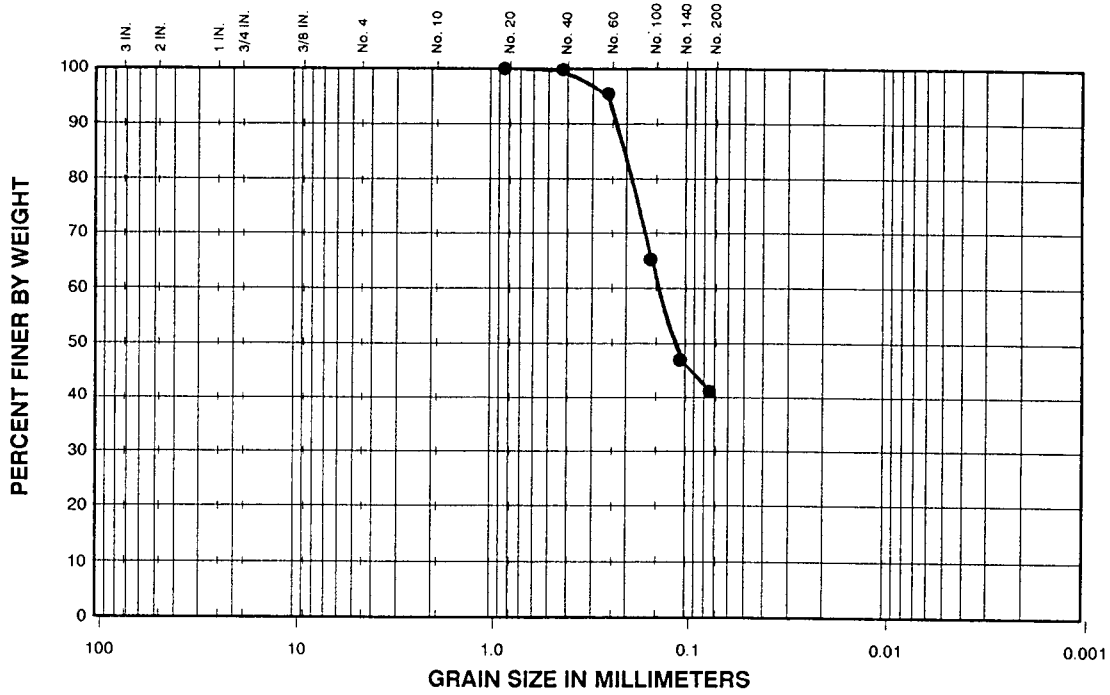


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-22, 0.0-5.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO: 03-129	APPROVED BY: 	FIGURE: 25	

U.S. STANDARD SIEVE SIZE

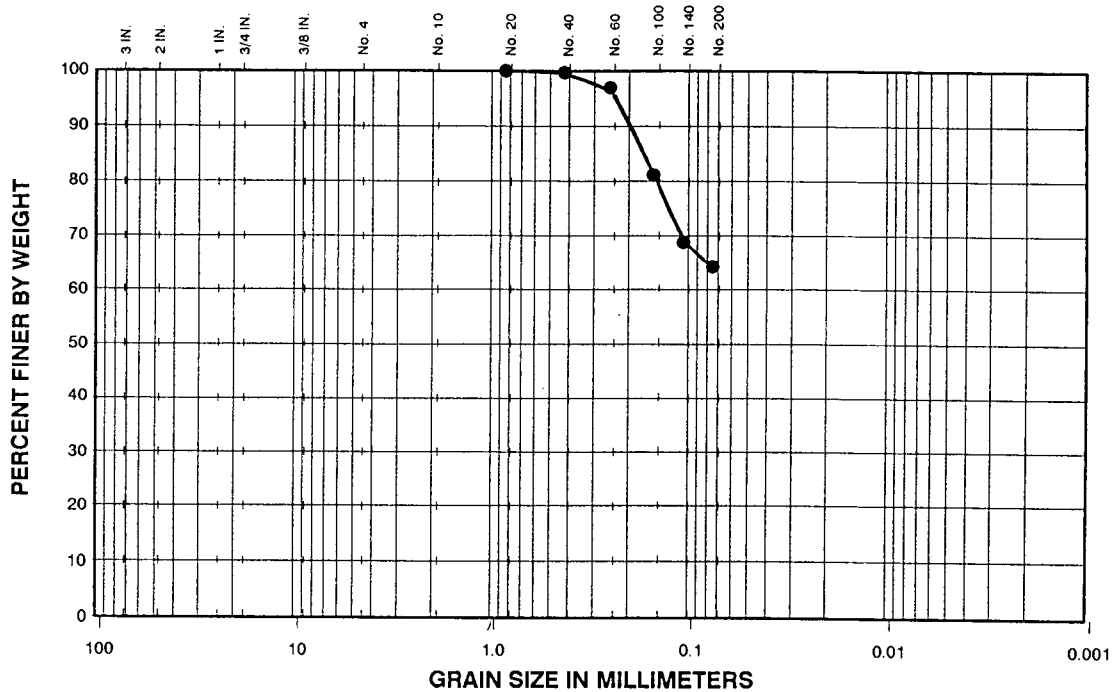


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-23, 0.0-5.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO: 03-129	APPROVED BY: 	FIGURE: 26	

U.S. STANDARD SIEVE SIZE

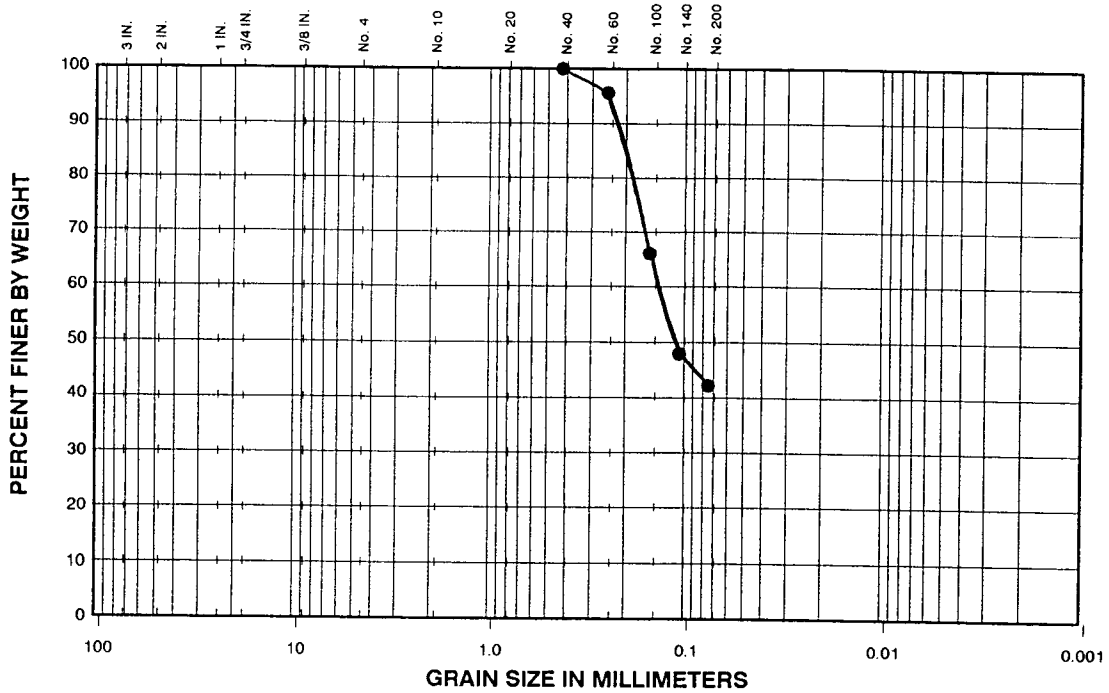


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-24, 0.0-5.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 27

U.S. STANDARD SIEVE SIZE

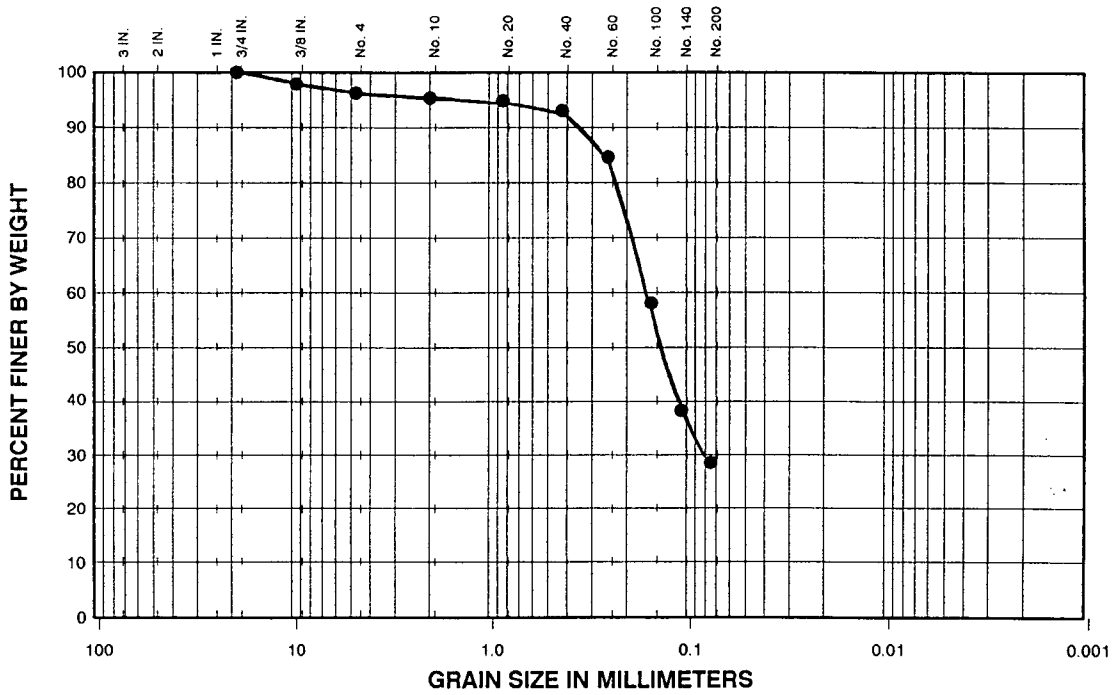


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-25, 0.0-5.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY:	NS	CHECKED BY:	SA
FILE NO.:	03-129	DATE:	09-29-03
APPROVED BY:			FIGURE:
			28

U.S. STANDARD SIEVE SIZE

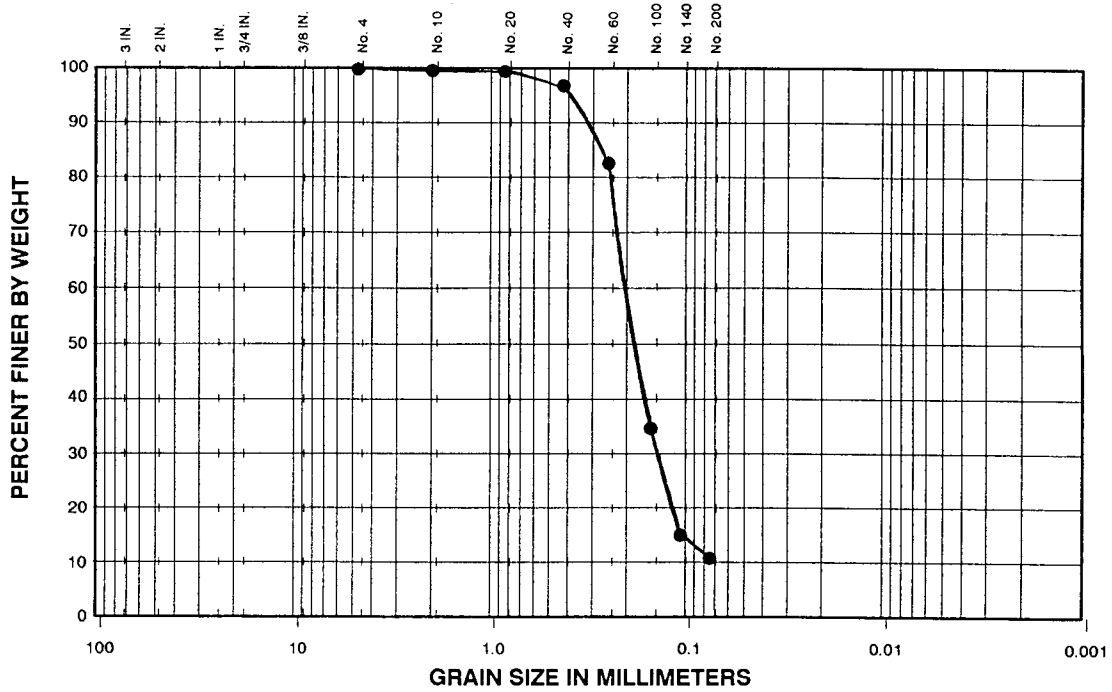


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-26, 5.0-10.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 29	

U.S. STANDARD SIEVE SIZE

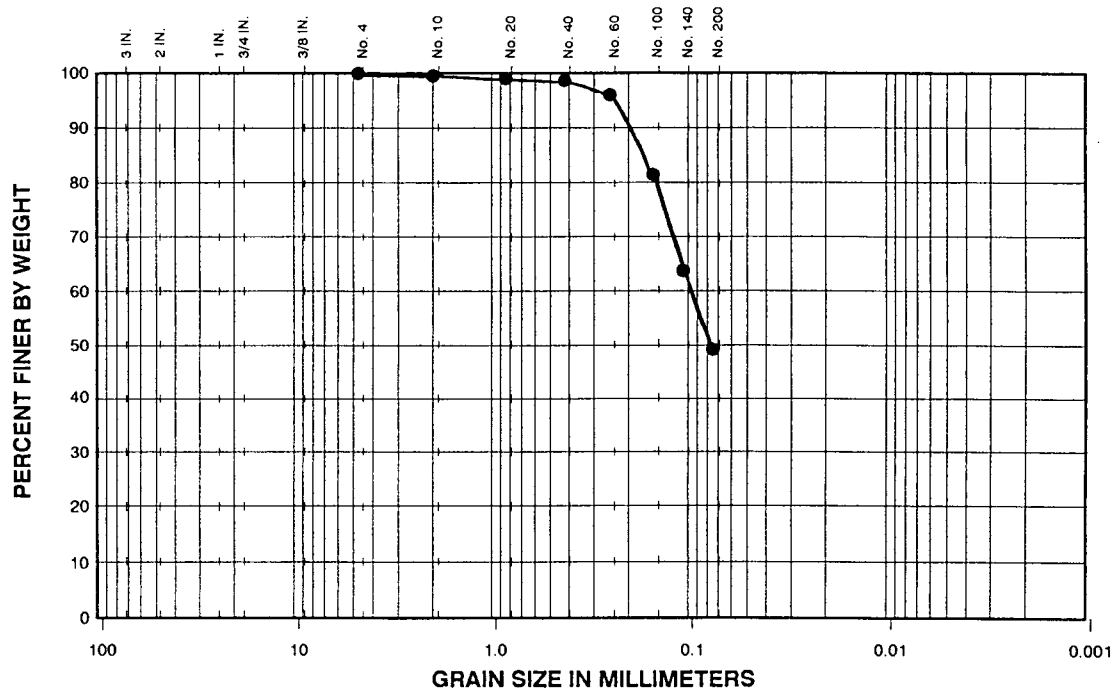


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-27, 10.0-15.0 FEET

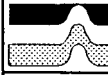
 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: TM	FIGURE: 30	

U.S. STANDARD SIEVE SIZE

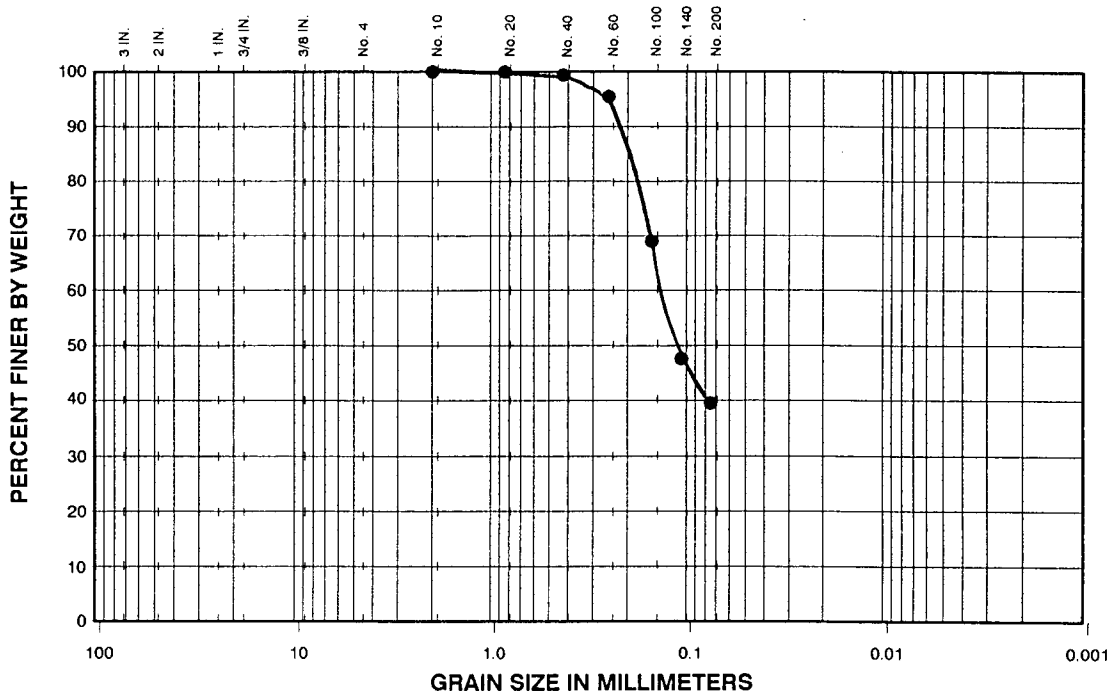


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-28, 5.0-10.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: <i>TM</i>	FIGURE: 31	

U.S. STANDARD SIEVE SIZE

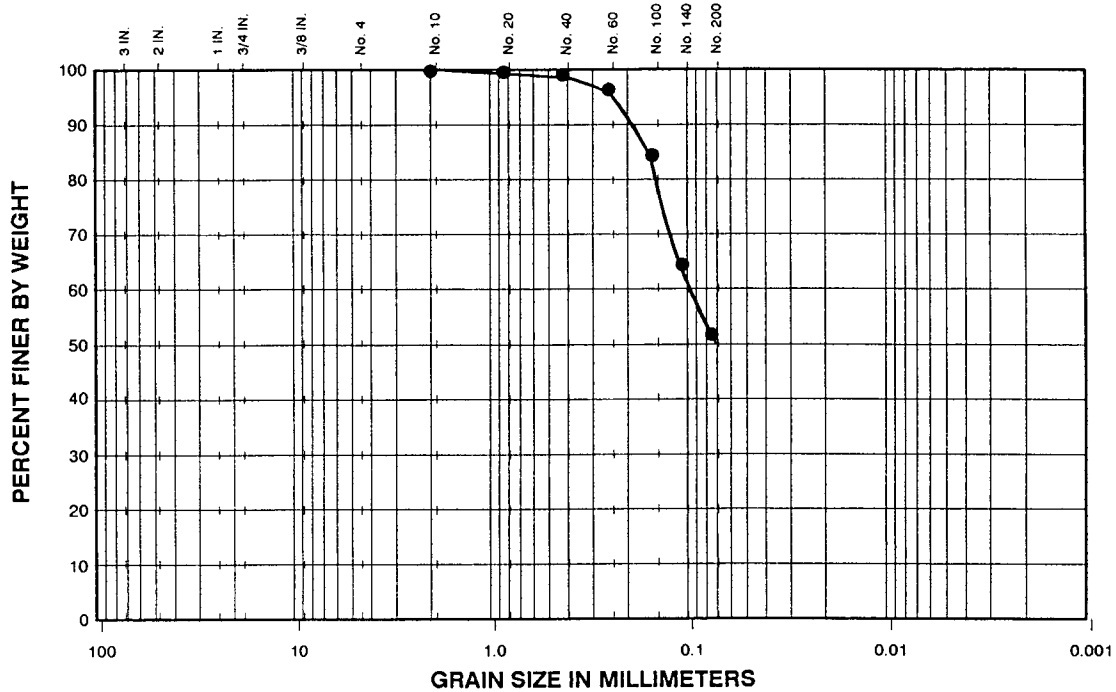


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-29, 5.0-10.0 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO: 03-129	APPROVED BY: 	FIGURE: 32	

U.S. STANDARD SIEVE SIZE

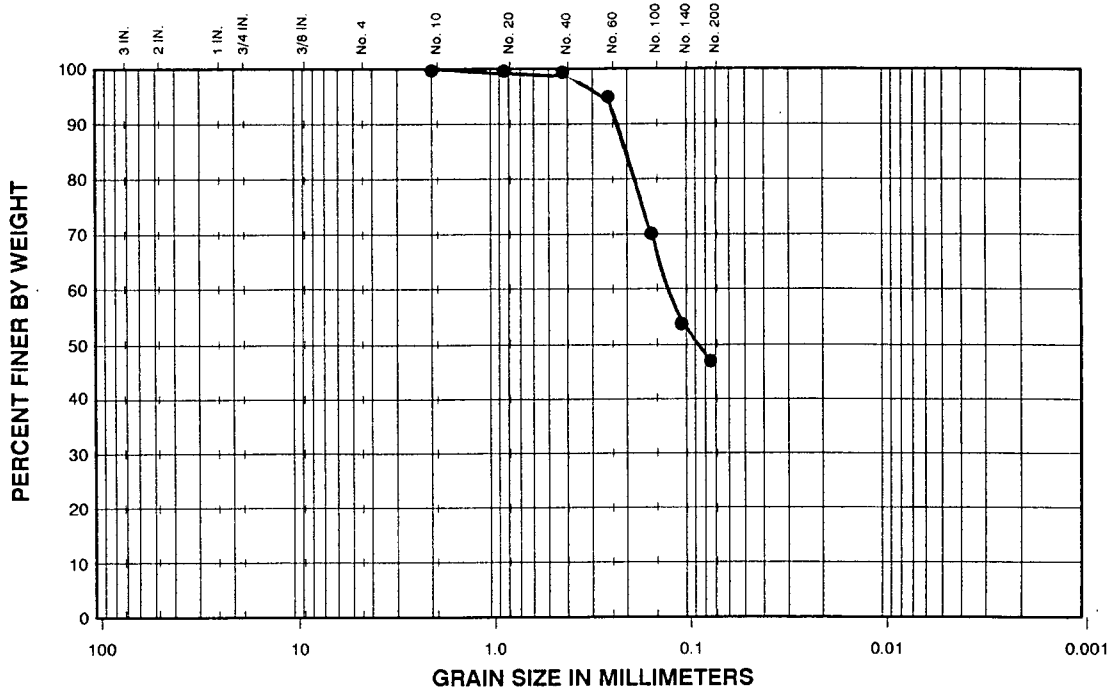


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-30, 0.0-5.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 33

U.S. STANDARD SIEVE SIZE

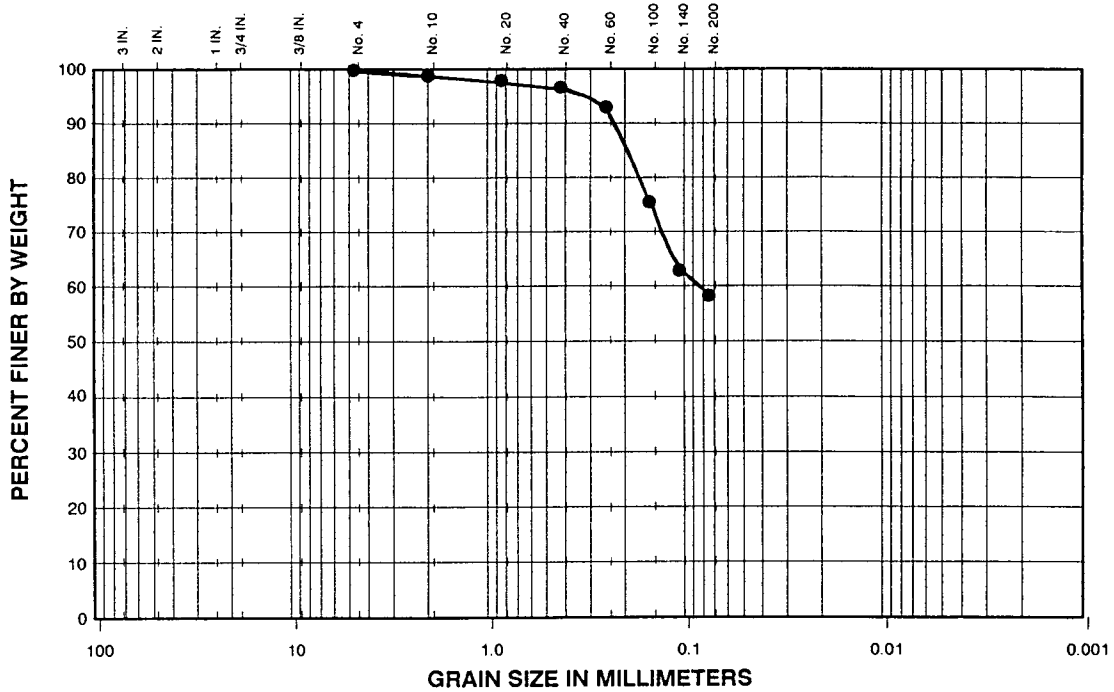


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-31, 0.0-5.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: JM	FIGURE: 34	

U.S. STANDARD SIEVE SIZE

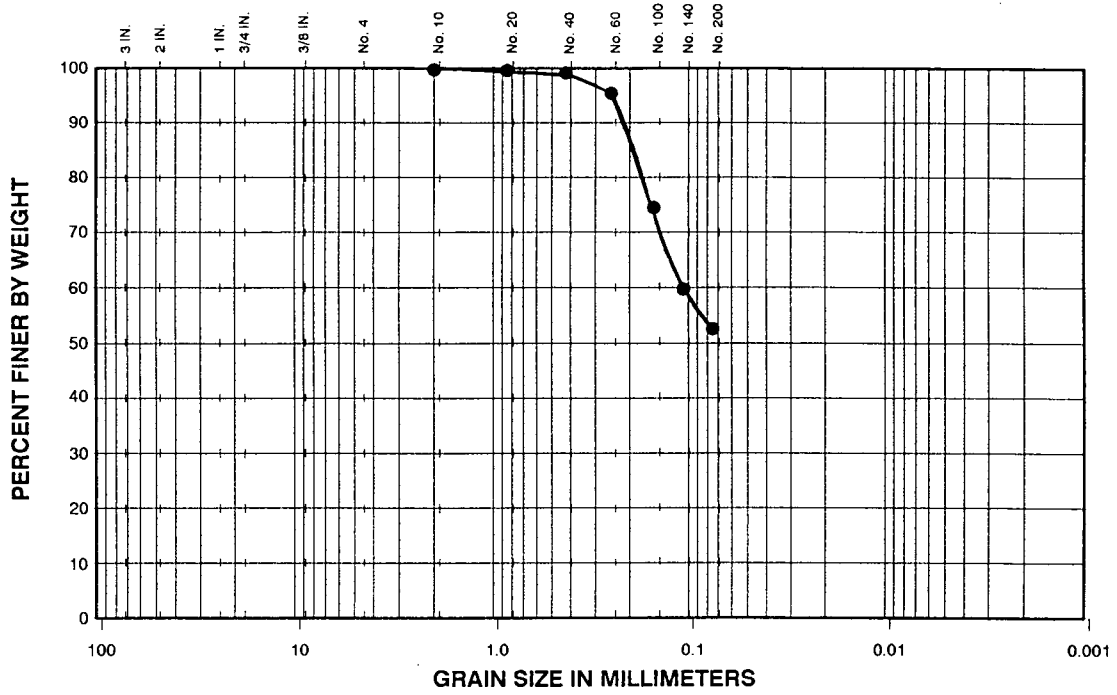


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-32, 0.0-5.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03
FILE NO.: 03-129	APPROVED BY: <i>PM</i>	FIGURE: 35

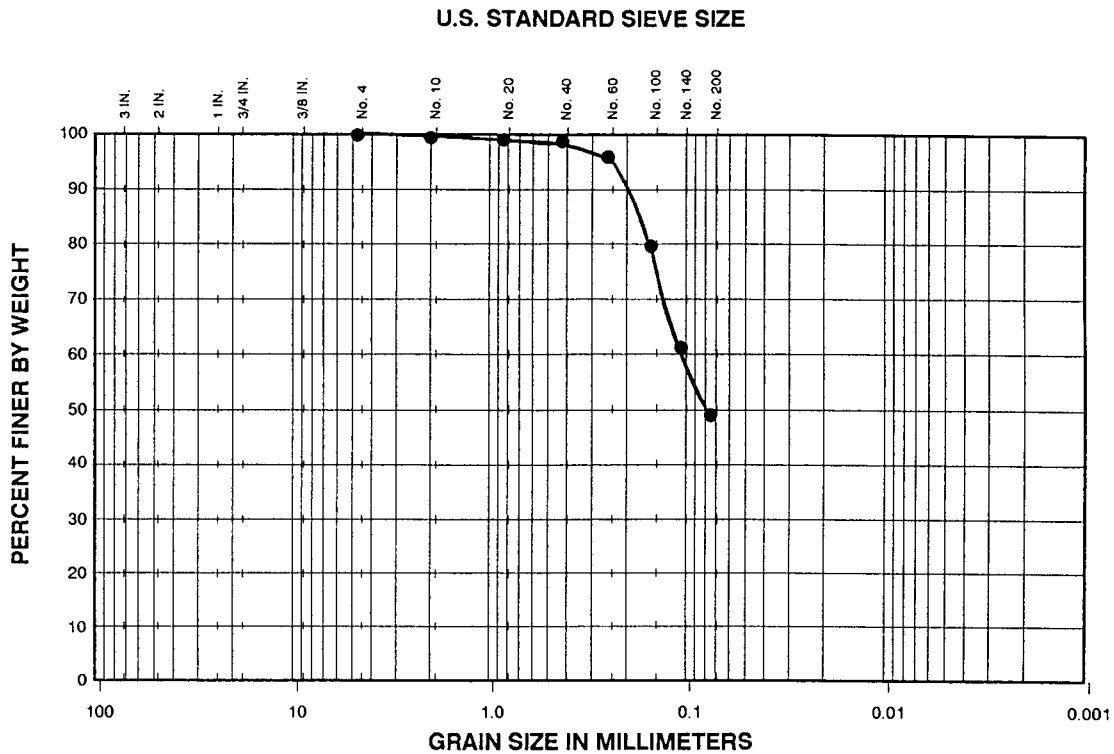
U.S. STANDARD SIEVE SIZE



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-33, 0.0-5.0 FEET

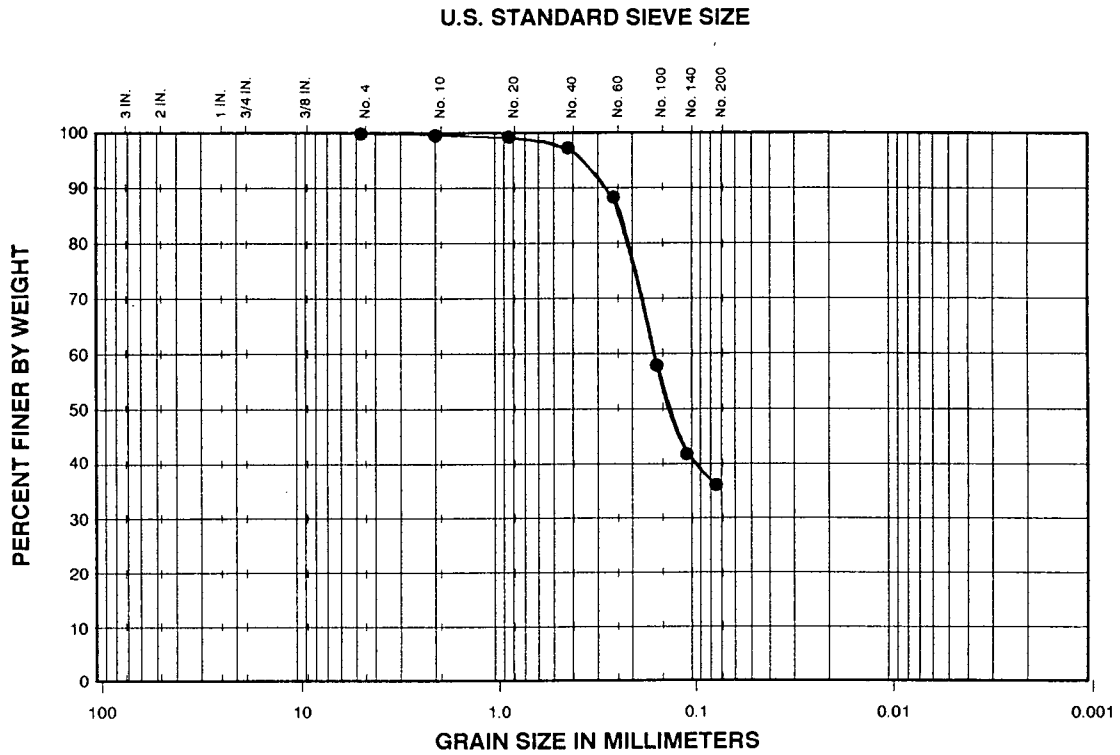
 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: JM	FIGURE: 36	



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-34, 0.0-5.0 FEET

Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY:	NS	CHECKED BY:
FILE NO.:	03-129	DATE:
APPROVED BY:	 	
FIGURE:	37	

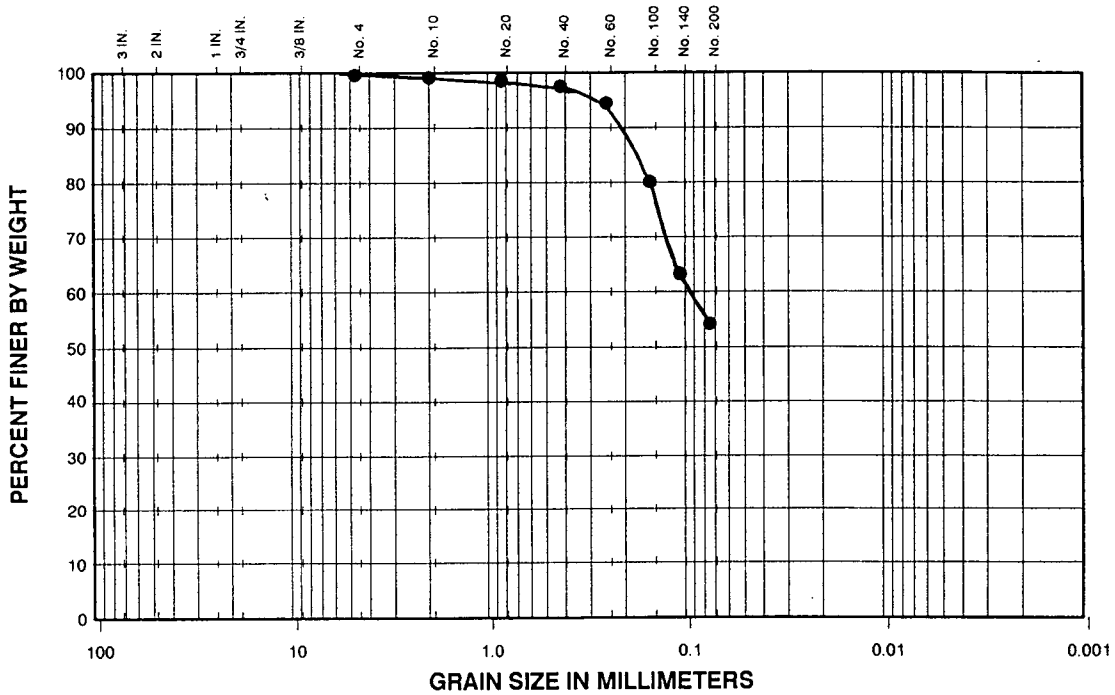


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-35, 0.0-5.0 FEET



Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY:	NS	CHECKED BY:
FILE NO.:	03-129	APPROVED BY:
DATE:	09-29-03	FIGURE:
		38

U.S. STANDARD SIEVE SIZE

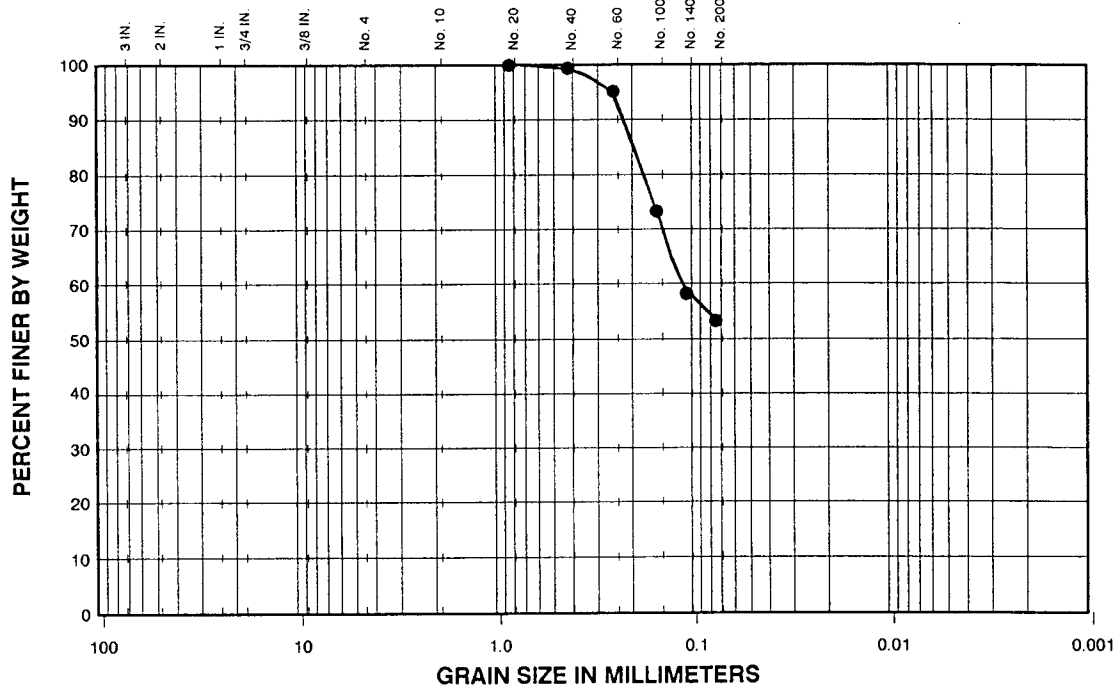


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-36, 0.0-5.0 FEET

 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-24-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 39	

U.S. STANDARD SIEVE SIZE



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE SSA-37, 10.0-15.0 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-29-03	
FILE NO.: 03-129	APPROVED BY: JM	FIGURE: 40	

Table 1
 DESCRIPTION OF SHELBY TUBE SOIL SAMPLES

Sample	Depth (feet)	Description	Length (inches)		-200 (%)	Measured w _c (%)	Tube Average	
							w _c (%)	Y _t ³ (lb/ft ³)
ST-9	-	Drilling disturbed soil	18.0	29.0	-	-	-	-
		Brown and gray mottled clayey sand with trace cemented sand particles	11.0		42.2	33.8 29.7 30.5 32.1	31.5	118.8
ST-10	-	Drilling disturbed soil	13.0	29.0	-	-	-	-
		Gray and brown mottled clayey sand	16.0		35.9	32.1 22.6 22.8 22.0 36.9	27.3	122.1
ST-11	4 - 6	Drilling disturbed soil	12.0	28.5	-	-	-	-
		Brown and gray mottled clayey sand	16.5		40.9	30.6 42.6 31.5 33.8 43.3	36.3	114.7
ST-12	4 - 6	Drilling disturbed soil	4.0	27.5	-	-	-	-
		Gray and brown mottled clayey sand with trace cemented sand particles	23.5		38.1	32.9 32.0 35.2 29.5 30.8 31.5	32.0	118.5
ST-12A	4 - 6	Drilling disturbed soil	10.5	21.0	-	-	-	-
		Gray clayey sand	5.0		-	30.1 26.8	30.2	119.8
		Orangish-brown clayey sand	5.5		47.4	28.8 35.1		
ST-13	8 - 10	Drilling disturbed soil	5.5	28.0	-	-	-	-
		Gray and brown mottled clayey sand	8.0		-	36.5 35.2	41.1	112.6
		Gray and brown mottled clayey sand with fine gravel-size to c - m sand-size cemented sand	14.5		38.1	41.8 46.8 43.1 43.2		

Table 1 (Continued)

DESCRIPTION OF SHELBY TUBE SOIL SAMPLES

Sample	Depth (feet)	Description	Length (inches)		-200 (%)	Measured w_c (%)	Tube Average	
							w_c (%)	$\gamma_{1.3}$ (lb/ft ³)
ST-14	4 - 6	Drilling disturbed soil	6.5	28.0	—	—	41.2	112.6
		Orangish-brown sandy clay with trace cemented sand particles	5.0		—	39.1		
		Gray sandy clay	16.5		64.7	42.9 43.8 42.2 38.2		
ST-15	25.5 - 27.5	Drilling disturbed soil	23.5	28.0	—	—	18.4	132.6
		Reddish-brown clayey sand	4.5		21.4	19.8 18.4 17.1		
ST-16	—	Drilling disturbed soil	5.0	26.5	—	—	26.8	124.0
		Brownish-gray clayey sand	13.0		—	29.8 31.6		
		Brown silty sand	8.5		13.3	24.6 19.4 18.2		
ST-17	2 - 4	Drilling disturbed soil	3.0	27.5	—	—	16.8	134.6
		Brown and gray mottled clayey sand	24.5		25.4	15.2 15.0 15.7 15.1 16.6 23.0		
ST-18	2 - 4	Drilling disturbed soil	13.0	27.5	—	—	33.0	118.5
		Gray and brown mottled sandy clay	14.5		67.6	30.7 32.6 35.2 33.3		

Table 1 (Continued)

DESCRIPTION OF SHELBY TUBE SOIL SAMPLES

Sample	Depth (feet)	Description	Length (inches)		-200 (%)	Measured w_c (%)	Tube Average	
							w_c (%)	γ_t (lb/ft ³)
ST-19	4 - 6	Drilling disturbed soil	8.0	27.5	—	—	—	—
		Brown and gray mottled sandy clay	19.5		65.1	38.6 39.0 36.2 33.4 35.7	36.6	115.4
ST-20	2 - 4	Drilling disturbed soil	4.5	22.5	—	—	—	—
		Gray clayey sand with c - f gravel-size and c - m sand-size cemented sand	18.0		39.8	27.9 29.5 29.2 26.8	28.4	120.3
ST-21	32 - 34	Brown and gray mottled clayey sand	25.0		33.8	27.1 25.9 27.0 25.4 26.9	26.4	123.8

Where: -200 = Fines content (i.e., amount of material finer than the U.S. Standard No. 200 sieve); w_c = Moisture content; and γ_t = Total unit weight.

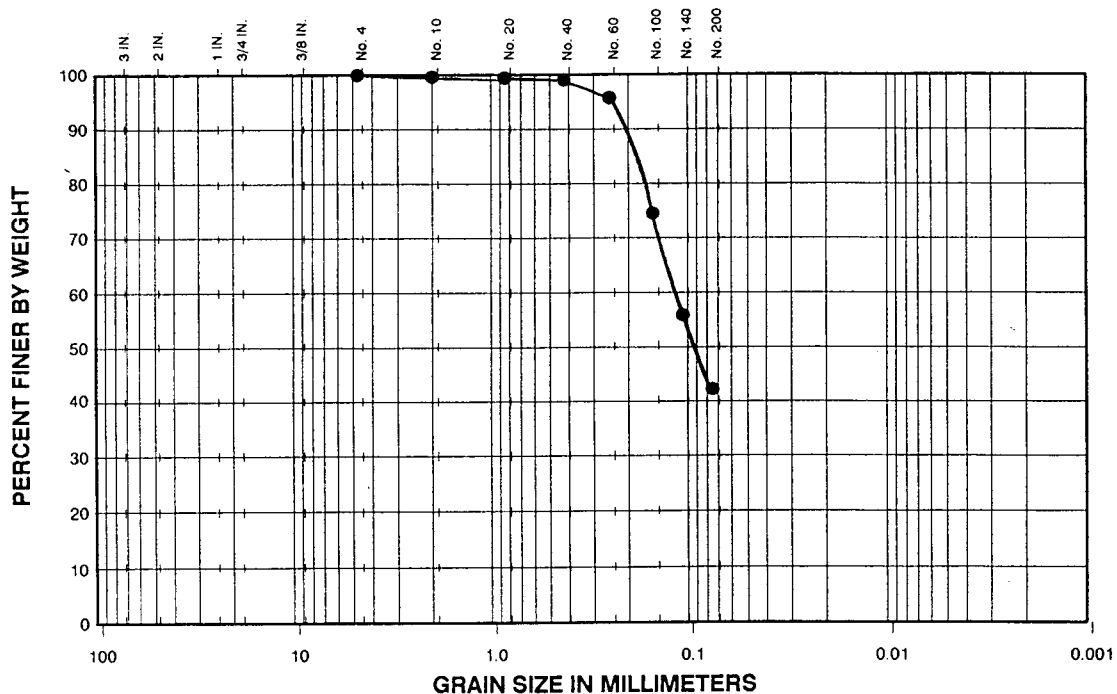
Table 2
 PERMEABILITY TEST RESULTS

Sample	Depth (feet)	Initial Conditions				Test Conditions				Final Conditions				k_{20} (cm/sec)	-200 (%)
		Length (cm)	Diameter (cm)	w_c (%)	γ_d (lb/ft ³)	$\bar{\sigma}_c$ (lb/in ²)	u_b (lb/in ²)	B Factor (%)	Average Hydraulic Gradient	w_c (%)	γ_d (lb/ft ³)	$\Delta V/V_o$ (%)	S (%)		
ST-9	--	10.03	7.25	30.5	91.3	10	180	99	26	31.1	91.2	+0.1	100	2.3×10^{-8}	42.2
ST-10	--	10.58	7.28	22.8	101.5	10	180	100	20	24.7	100.6	+1.0	100	5.2×10^{-8}	35.9
ST-11	4 - 6	10.33	7.28	31.5	90.6	10	180	100	26	31.6	90.2	+0.4	99	6.4×10^{-9}	40.9
ST-12	4 - 6	10.30	7.31	29.5	90.2	10	180	100	11	32.2	89.5	+0.8	100	2.4×10^{-7}	38.1
ST-12A	4 - 6	10.47	7.27	28.8	93.6	10	180	97	32	29.4	92.9	+0.8	100	3.0×10^{-9}	47.4
ST-13	8 - 10	9.60	7.21	43.1	76.8	10	90	92*	9	45.5	75.1	+2.2	100	5.3×10^{-6}	38.1
ST-14	4 - 6	10.25	7.27	43.8	77.1	10	180	100	14	43.3	77.4	-0.4	100	2.6×10^{-6}	64.7
ST-15	25.5 - 27.5	8.30	7.29	18.4	110.1	10	90	100	11	18.9	109.8	+0.2	97	5.2×10^{-6}	21.4
ST-16	--	10.26	7.35	19.4	106.8	10	90	97	9	18.3	111.9	-4.5	100	9.2×10^{-6}	13.3
ST-17	2 - 4	7.86	3.56	15.7	114.7	10	180	95	27	17.0	115.5	-0.7	100	1.3×10^{-5}	25.4
ST-18	2 - 4	10.35	7.29	35.2	84.6	10	180	100	18	36.3	84.7	-0.1	100	5.1×10^{-8}	67.6
ST-19	4 - 6	10.32	7.29	36.2	84.9	10	180	94*	36	37.1	84.3	+0.8	100	4.9×10^{-9}	65.1
ST-20	2 - 4	10.31	7.33	29.2	88.4	10	180	98	24	31.4	89.2	-0.9	97	1.4×10^{-7}	39.8
ST-21	32 - 34	10.33	7.29	27.0	96.3	10	180	100	12	27.5	96.4	-0.2	100	2.1×10^{-6}	33.8

Where: w_c = Moisture content; γ_d = Dry density; $\bar{\sigma}_c$ = Average isotropic effective confining stress; u_b = Back-pressure; S = Calculated degree of saturation using an assumed specific gravity of 2.68; $\Delta V/V_o$ = Volume change from initial to final condition (-denotes consolidation and + denotes expansion); k_{20} = Saturated hydraulic conductivity at 20°C; and -200 = Fines content.



* B-Factor remained relatively constant for two consecutive increments of applied cell pressure.

U.S. STANDARD SIEVE SIZE

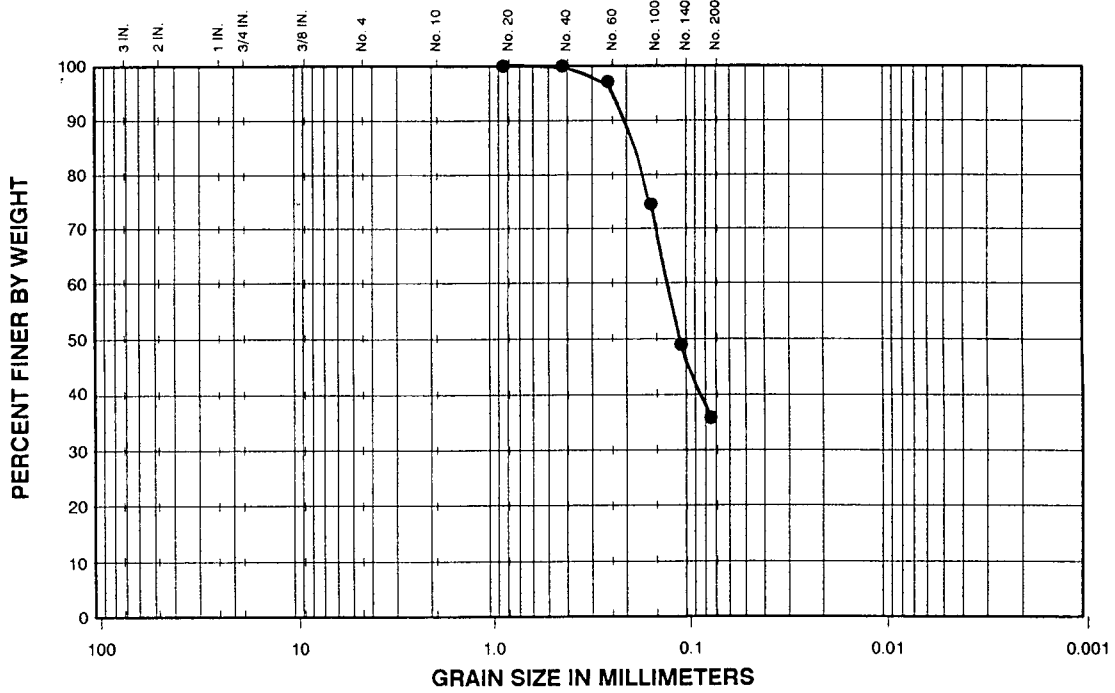


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-9



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 15	

U.S. STANDARD SIEVE SIZE

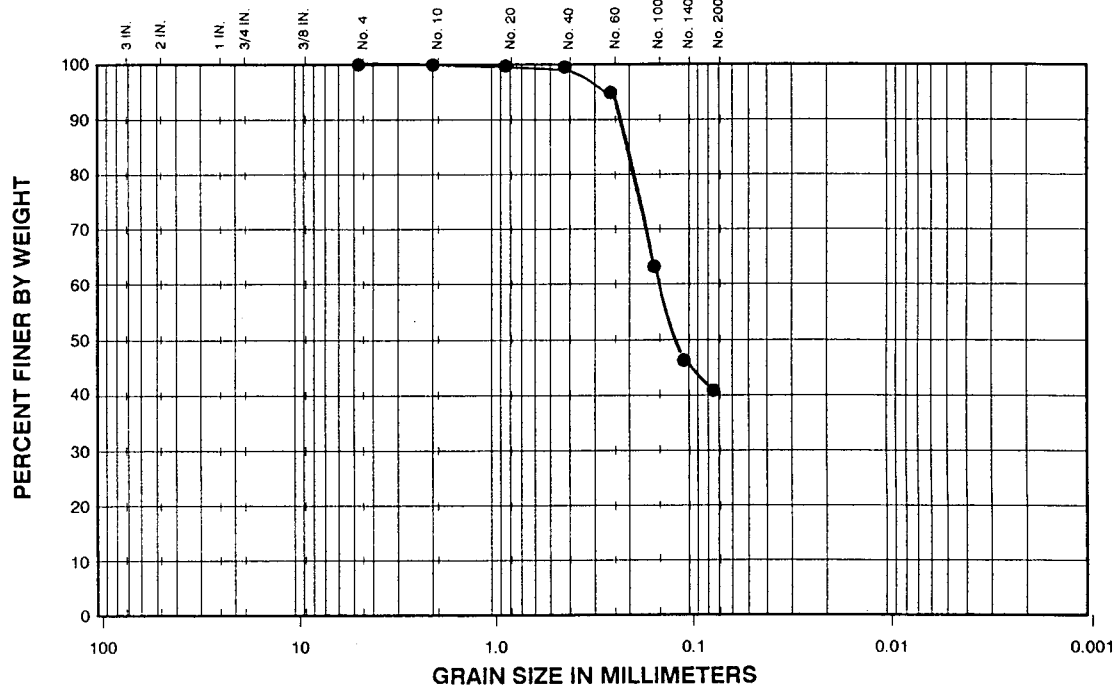


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-10



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 16	

U.S. STANDARD SIEVE SIZE

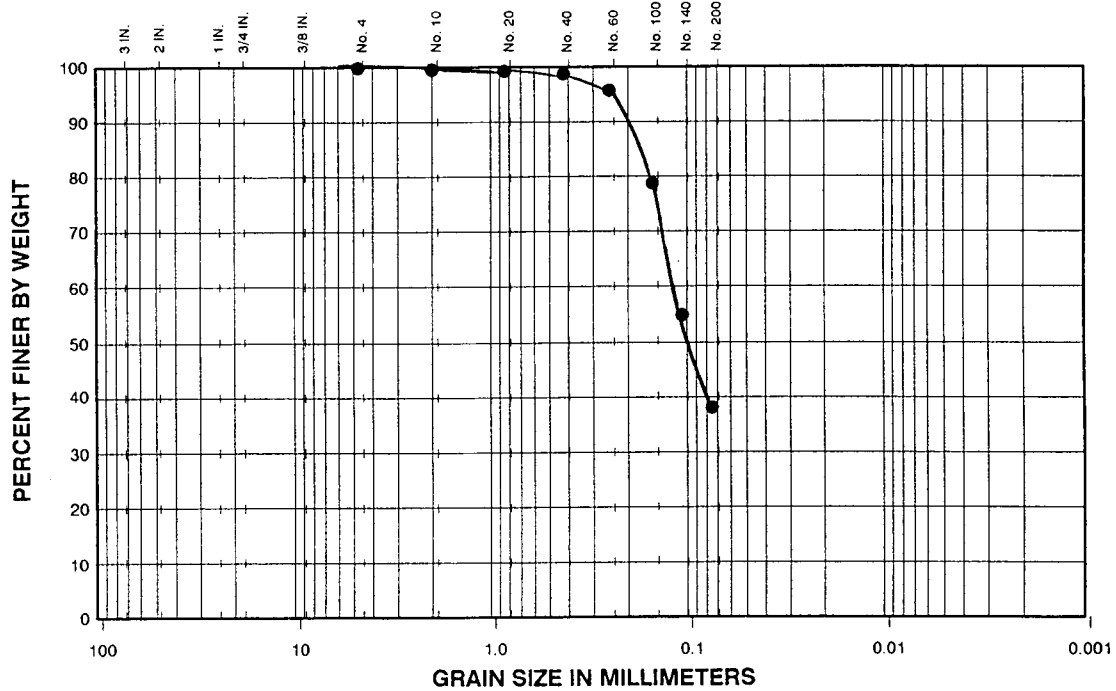


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-11, 4-6 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO: 03-129	APPROVED BY: 	FIGURE: 17	

U.S. STANDARD SIEVE SIZE

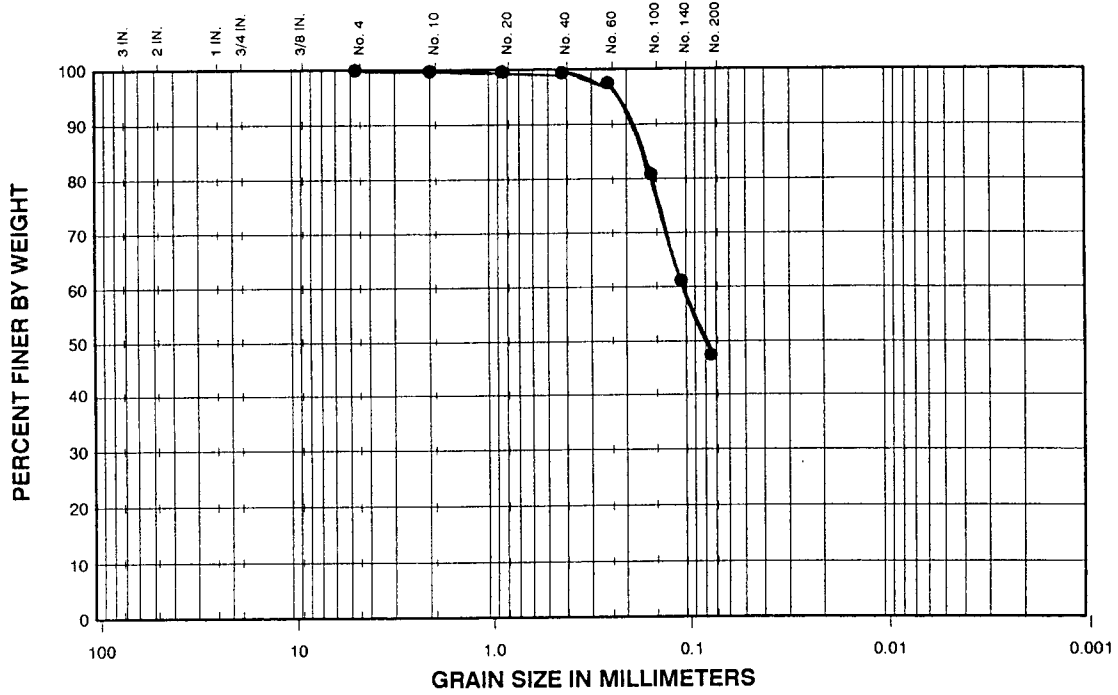


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-12, 4-6 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO: 03-129	APPROVED BY: 	FIGURE: 18	

U.S. STANDARD SIEVE SIZE

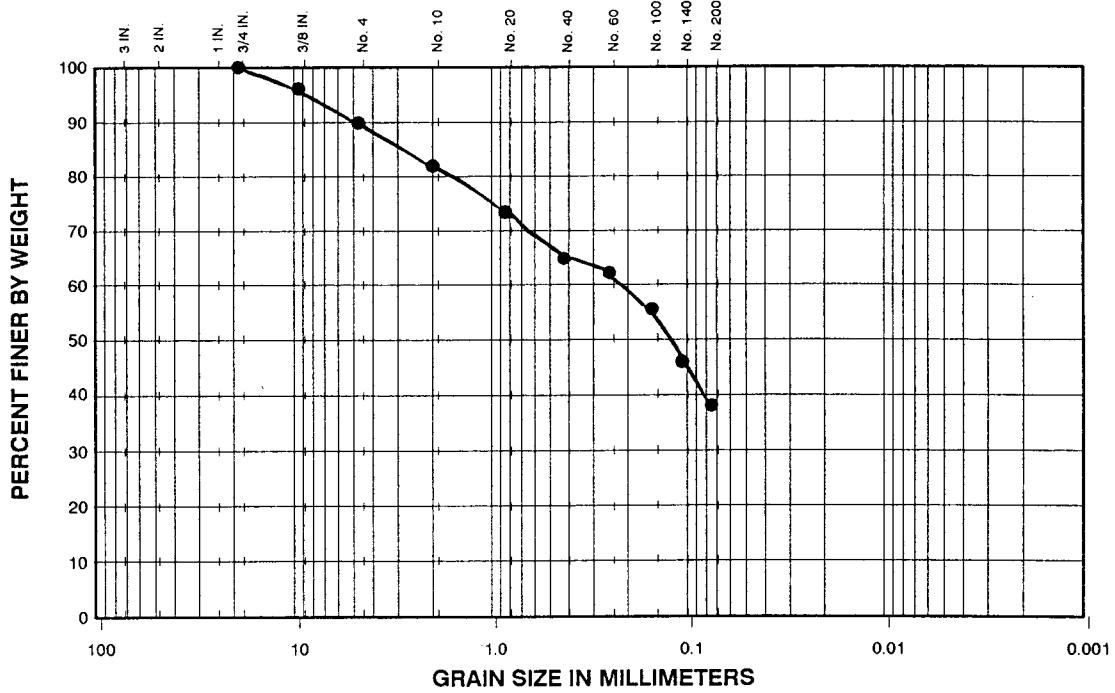


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-12A, 4-6 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 19	

U.S. STANDARD SIEVE SIZE

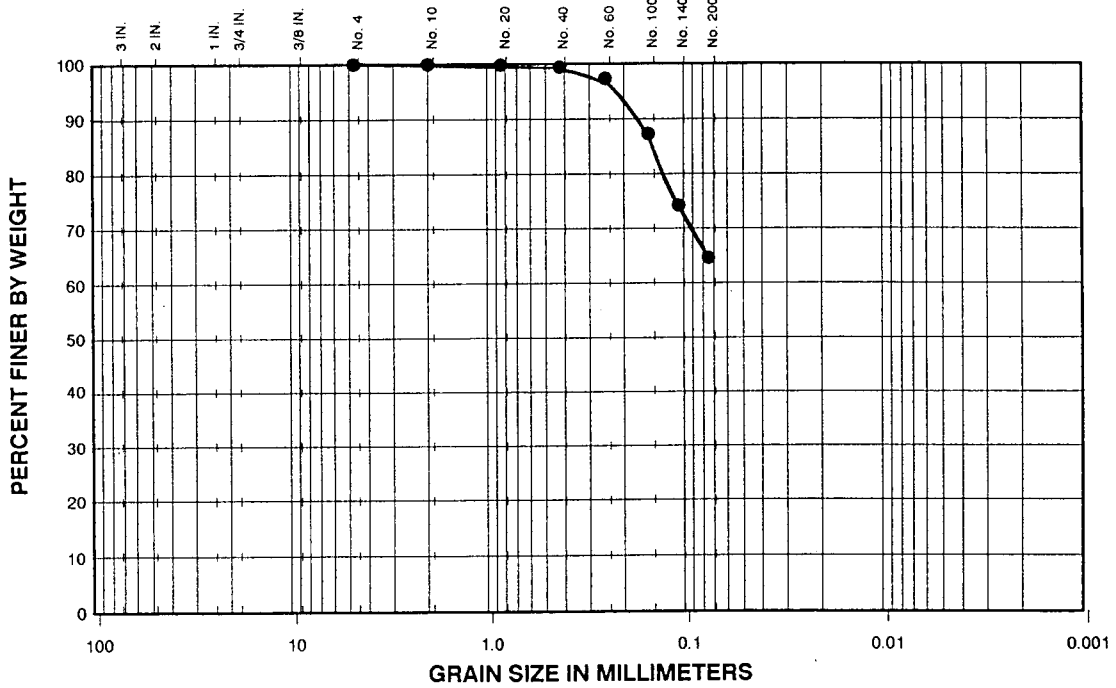


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-13, 8-10 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
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FILE NO.: 03-129	APPROVED BY: 	FIGURE: 20	

U.S. STANDARD SIEVE SIZE

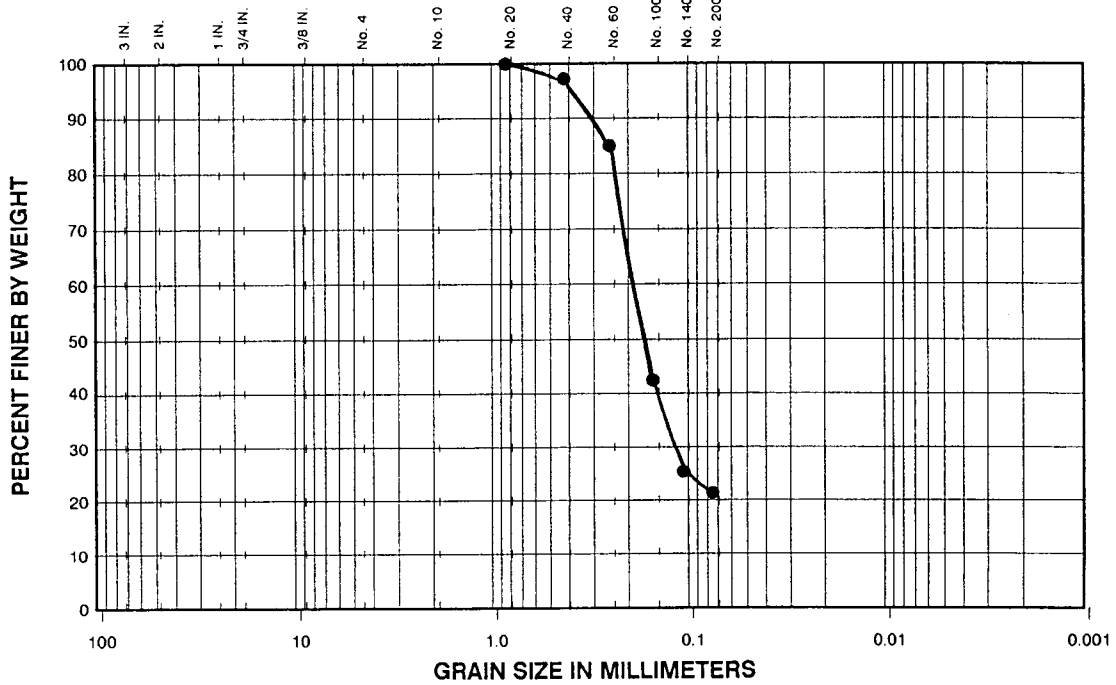


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-14, 4-6 FEET



 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants		
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA		
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03
FILE NO.: 03-129	APPROVED BY: <i>TM</i>	FIGURE: 21

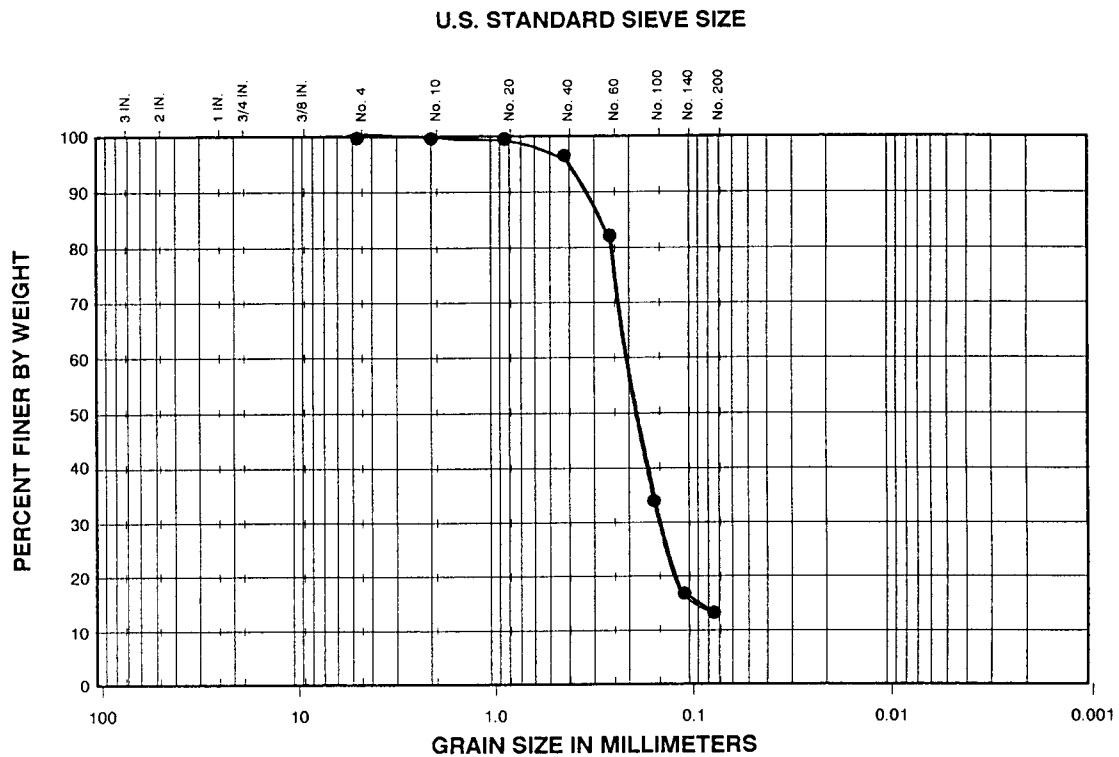
U.S. STANDARD SIEVE SIZE



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-15, 25.5-27.5 FEET

 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SK	DATE: 09-26-03	
FILE NO.: 03-129	APPROVED BY: 	FIGURE: 22	

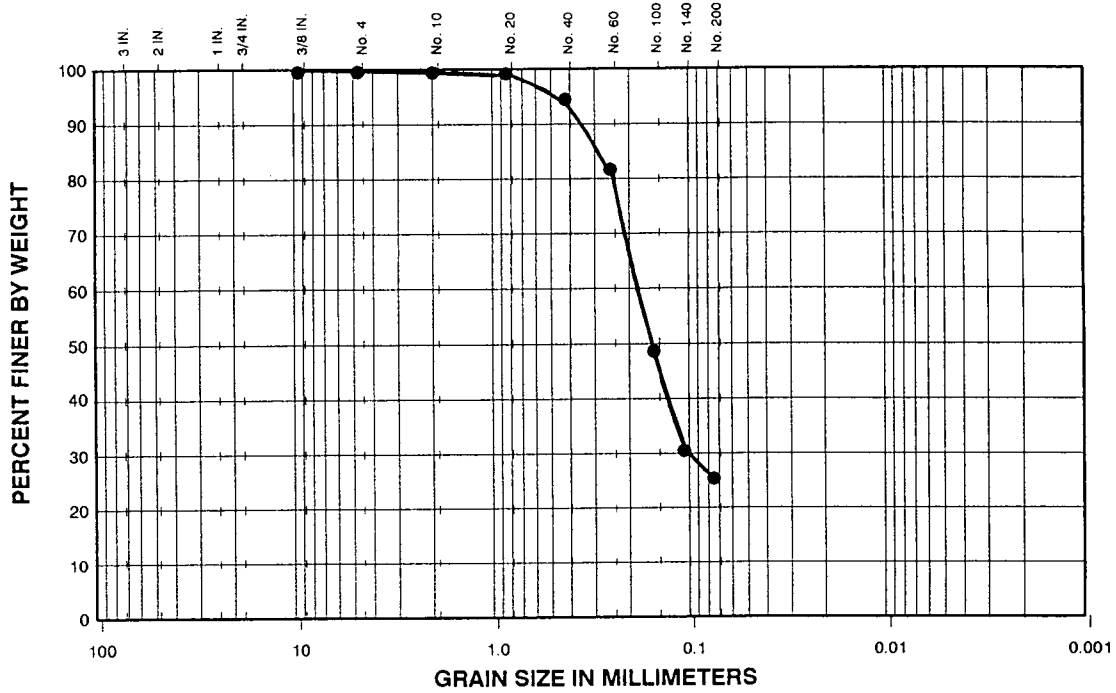


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-16


Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY:	NS	CHECKED BY:	SA
FILE NO.:	03-129	APPROVED BY:	
DATE:	09-26-03	FIGURE:	23

U.S. STANDARD SIEVE SIZE

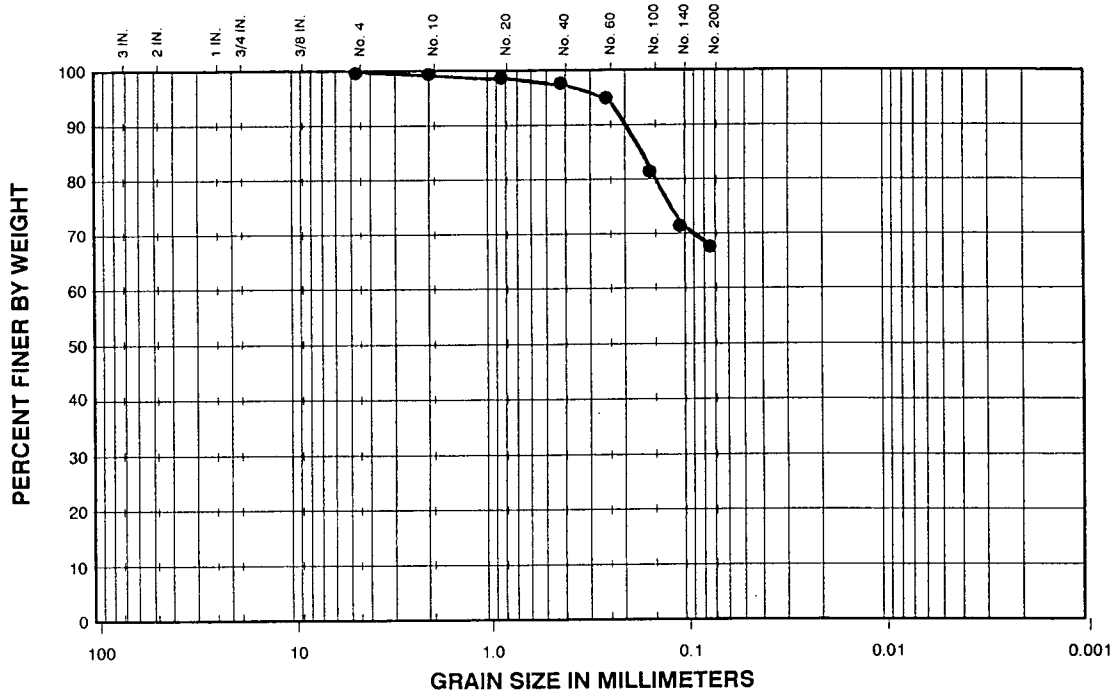


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-17, 2-4 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO: 03-129	APPROVED BY: <i>PH</i>	FIGURE: 24	

U.S. STANDARD SIEVE SIZE

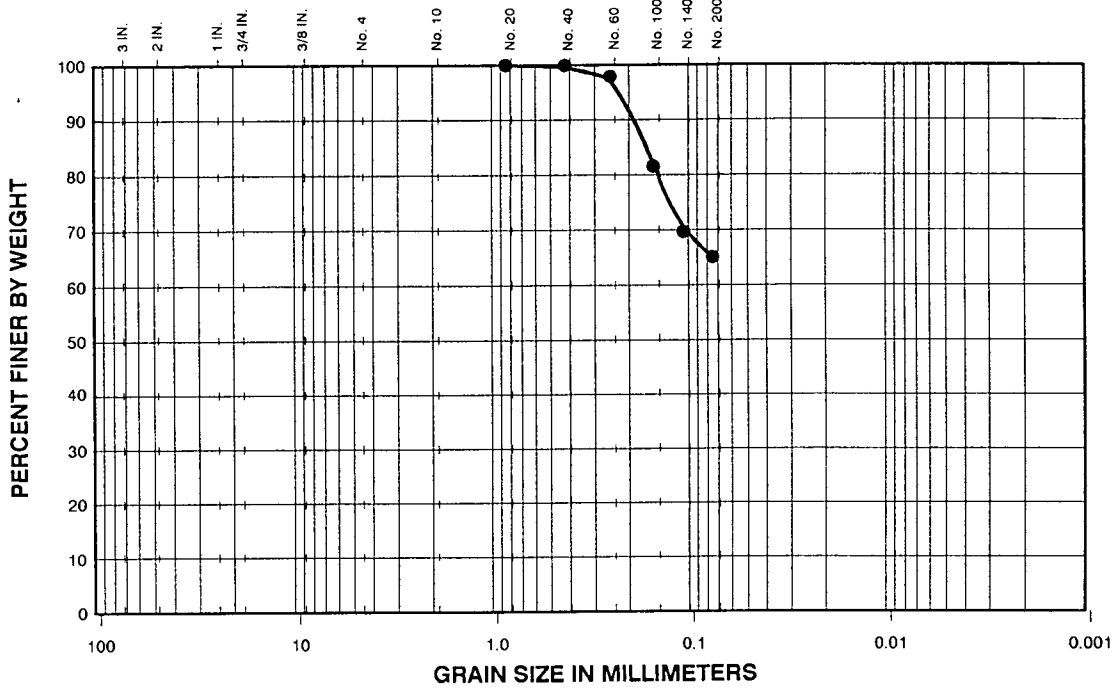


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-18, 2-4 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO.: 03-129	APPROVED BY: TM	FIGURE: 25	

U.S. STANDARD SIEVE SIZE

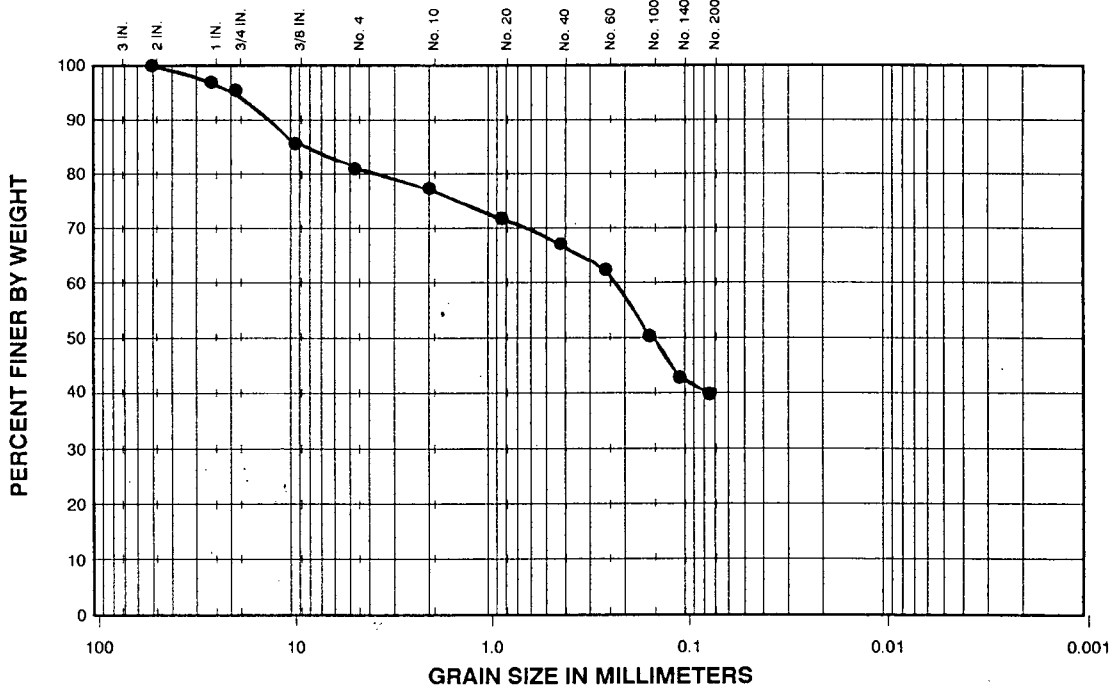


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-19, 4-6 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO.: 03-129	APPROVED BY: <i>PM</i>	FIGURE: 26	

U.S. STANDARD SIEVE SIZE

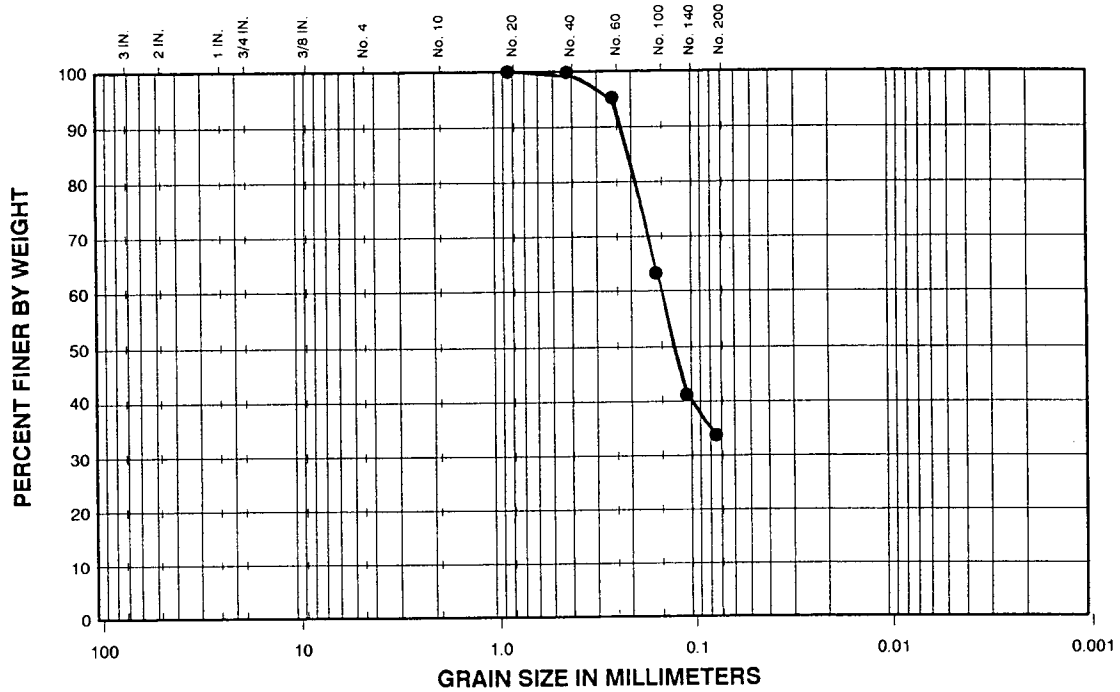


GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

PARTICLE-SIZE ANALYSIS ON SAMPLE ST-20, 2-4 FEET


 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-24-03	
FILE NO.: 03-129	APPROVED BY: <i>TM</i>	FIGURE: 27	

U.S. STANDARD SIEVE SIZE



GRAVEL		SAND			SILT	CLAY
COARSE	FINE	COARSE	MEDIUM	FINE		

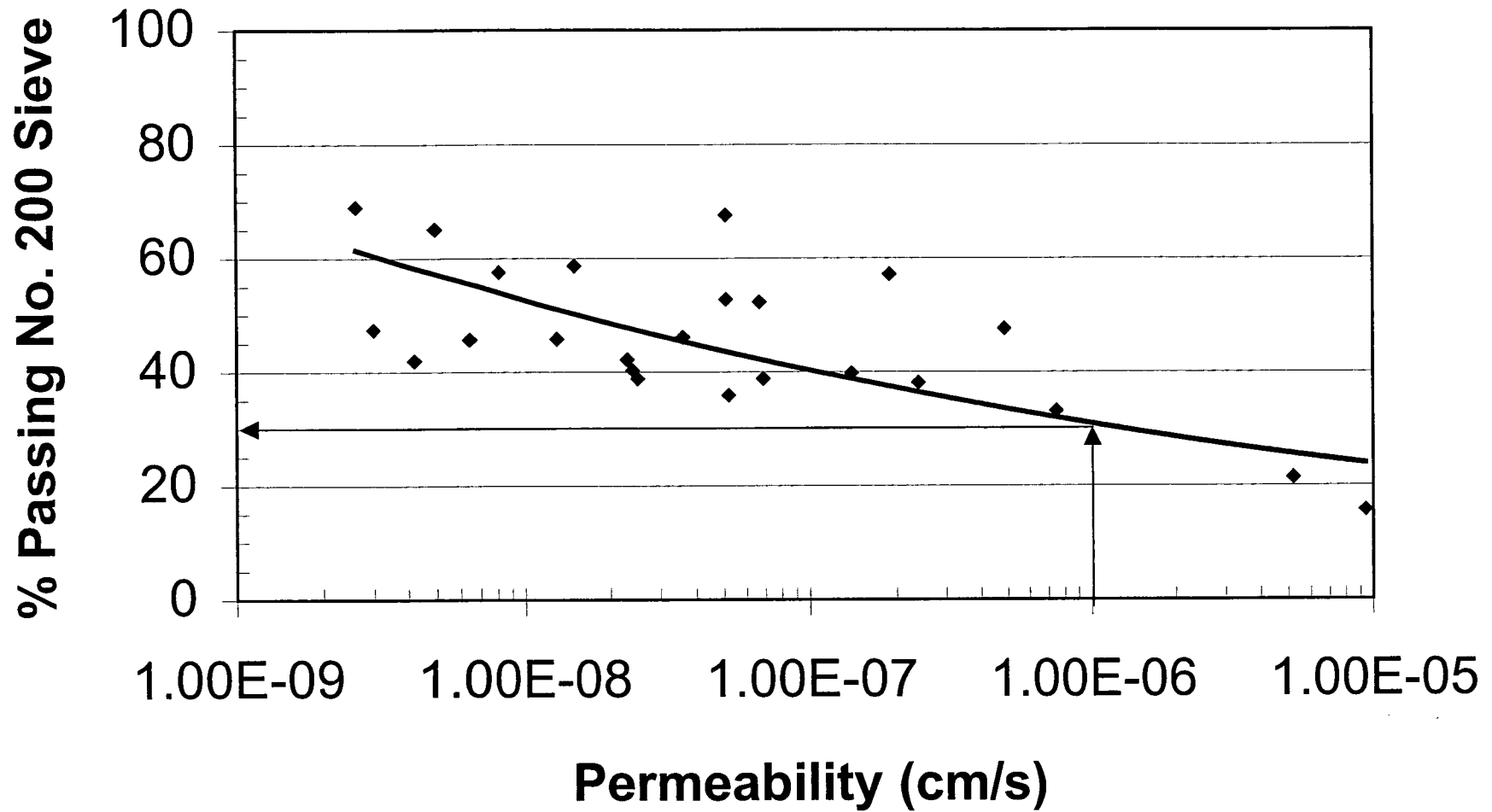
PARTICLE-SIZE ANALYSIS ON SAMPLE ST-21, 32-34 FEET

 Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants			
HARTMAN & ASSOCIATES, INC. ORLANDO, FLORIDA			
DRAWN BY: NS	CHECKED BY: SA	DATE: 09-26-03	
FILE NO.: 03-129	APPROVED BY: <i>PM</i>	FIGURE: 28	

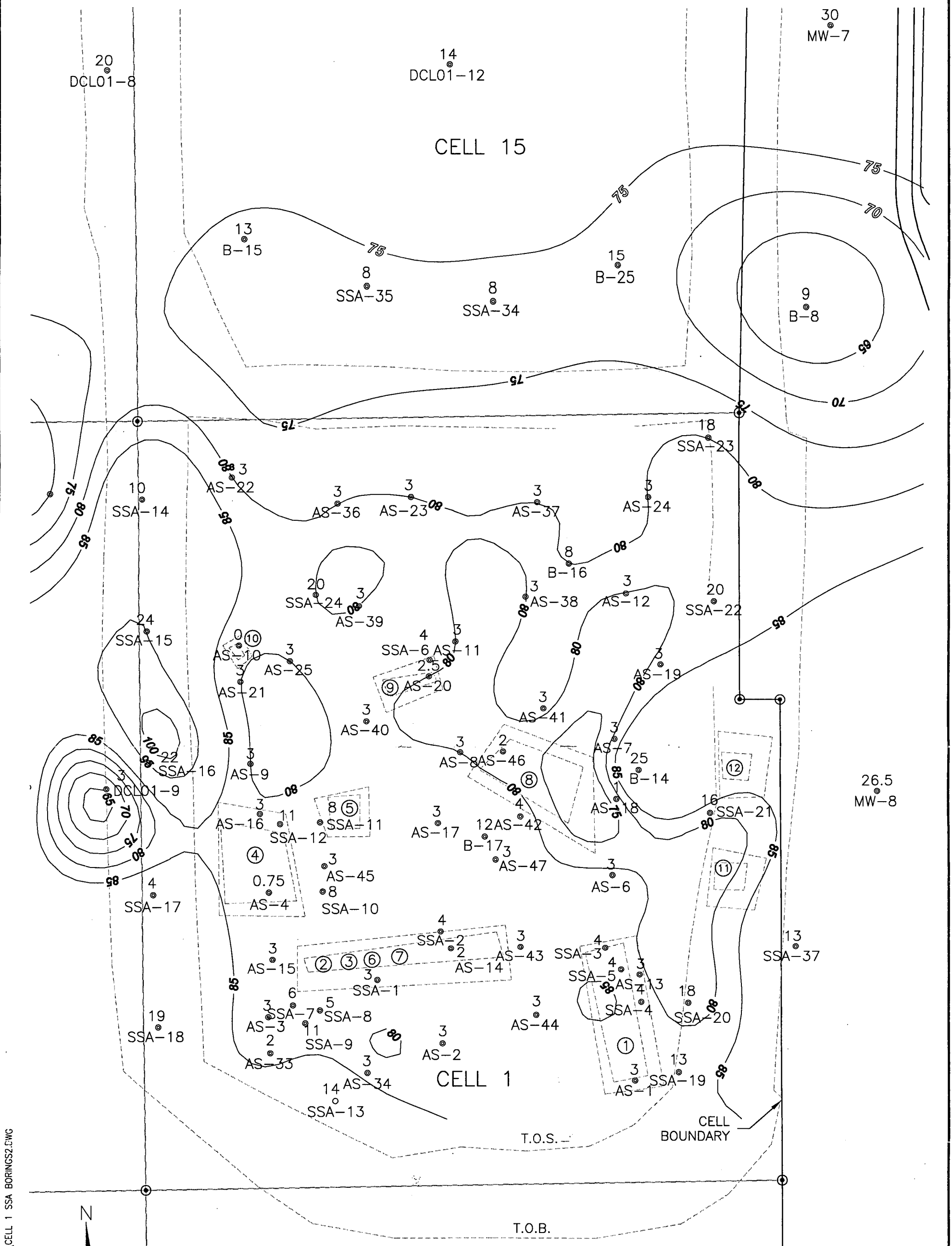
**COMPARISON OF PERMEABILITY AND PERCENT FINES
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
DADE CITY, FLORIDA**

Test #	Permeability (cm/s)	% Passing No. 200
ST-1	2.40E-08	40.3
ST-2	8.10E-09	57.6
ST-3	1.30E-08	45.8
ST-4	2.60E-09	69.0
ST-5	1.50E-08	58.7
ST-6	3.60E-08	46.1
ST-7	9.40E-06	15.7
ST-8	5.10E-08	52.8
ST-9	2.30E-08	42.2
ST-10	5.20E-08	35.9
ST-11	6.40E-09	45.7
ST-12	2.40E-07	38.1
ST-12A	3.00E-09	47.4
ST-13*	4.90E-07	47.6
ST-14*	6.70E-08	52.3
ST-15	5.20E-06	21.4
ST-16*	1.90E-07	57.2
ST-17*	6.90E-08	38.8
ST-18	5.10E-08	67.6
ST-19	4.90E-09	65.1
ST-20	1.40E-07	39.8
ST-21*	7.50E-07	33.1
Stockpile 1	4.20E-09	42.0
Stockpile 2	2.50E-08	38.8
* Indicates re-evaluation by UES		

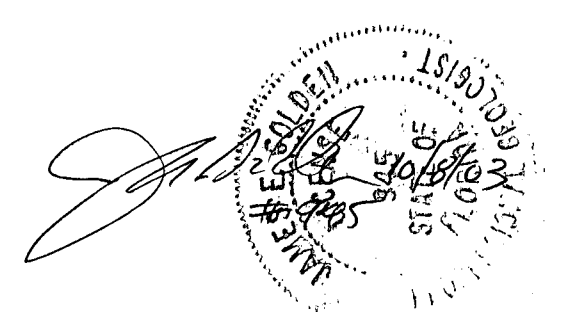
Permeability v. Percent Fines



APPENDIX C



- LEGEND:**
- 7.5
B-18 BORING W/ THICKNESS OF CONFINING LAYER, FT.
 - ⑤ TEST PIT, TYPICAL / LIMESTONE OVER EXCAVATION AREA W/ PIT NUMBER
 - 80 — CONFINING LAYER CONTOUR, FT., NGVD
 - CELL SURVEYED CORNER POSTS



N:\CAD\DWG\1999\99-331\01\MODELS\CELL 1 SSA BORINGS2.EWG

Plotted: Oct 08, 2003 - 4:36pm by mhr

FIGURE 38



HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
 TELEPHONE (407) 839-3955 - FAX (407) 839-3790

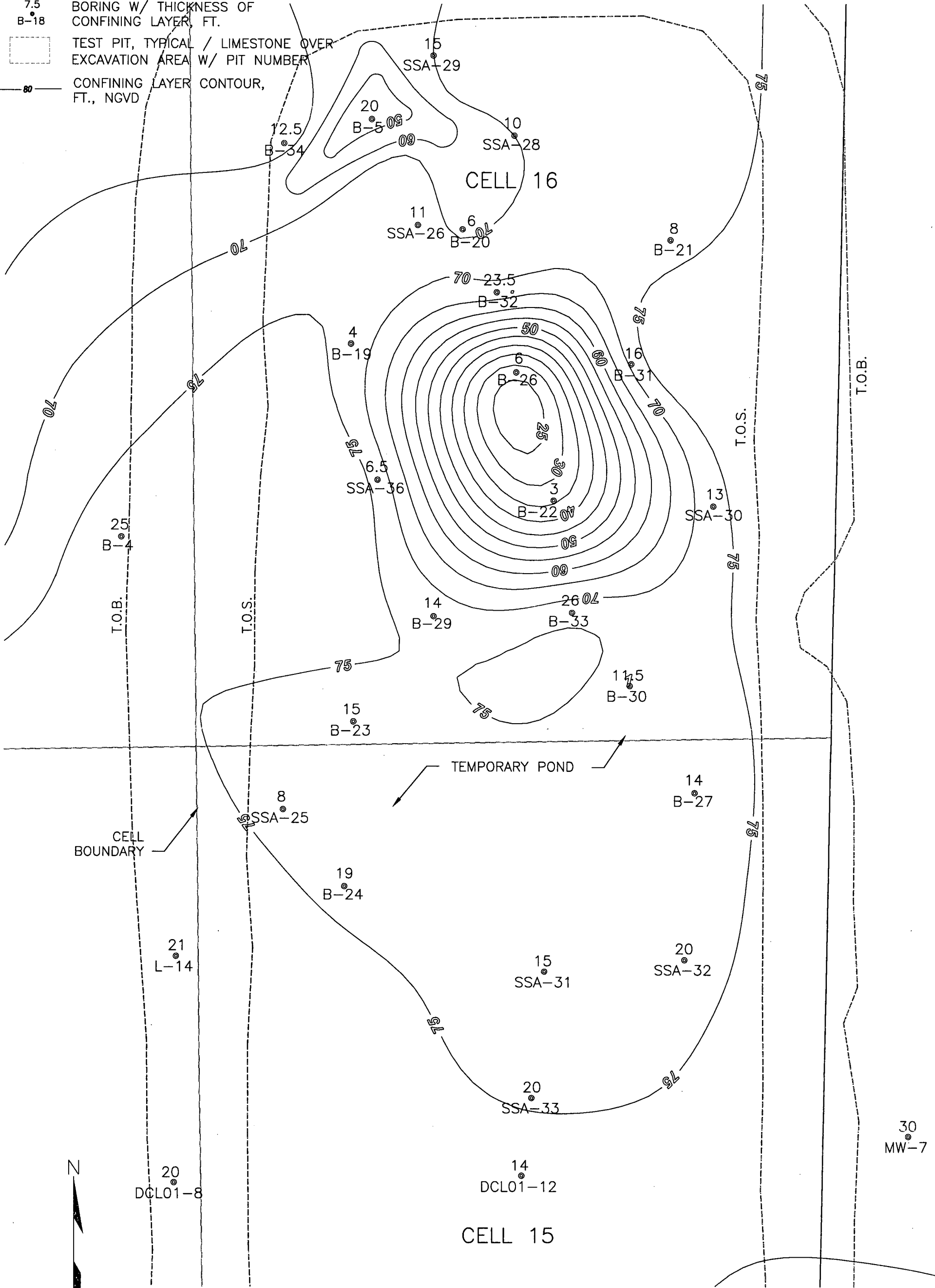
CONFINING LAYER CONTOUR MAP - CELL 1
ENTERPRISE RECYCLING & DISPOSAL FACILITY
DADE CITY, FLORIDA

LEGEND:

7.5
B-18 BORING W/ THICKNESS OF
CONFINING LAYER, FT.

TEST PIT, TYPICAL / LIMESTONE OVER
EXCAVATION AREA W/ PIT NUMBER

CONFINING LAYER CONTOUR,
FT., NGVD



N:\CAD\DWG\1999\99-331.01\MODELS\CELL 1 SSA BORINGS2.DWG

Plotted: Oct 08, 2003 - 4:16pm by mhr

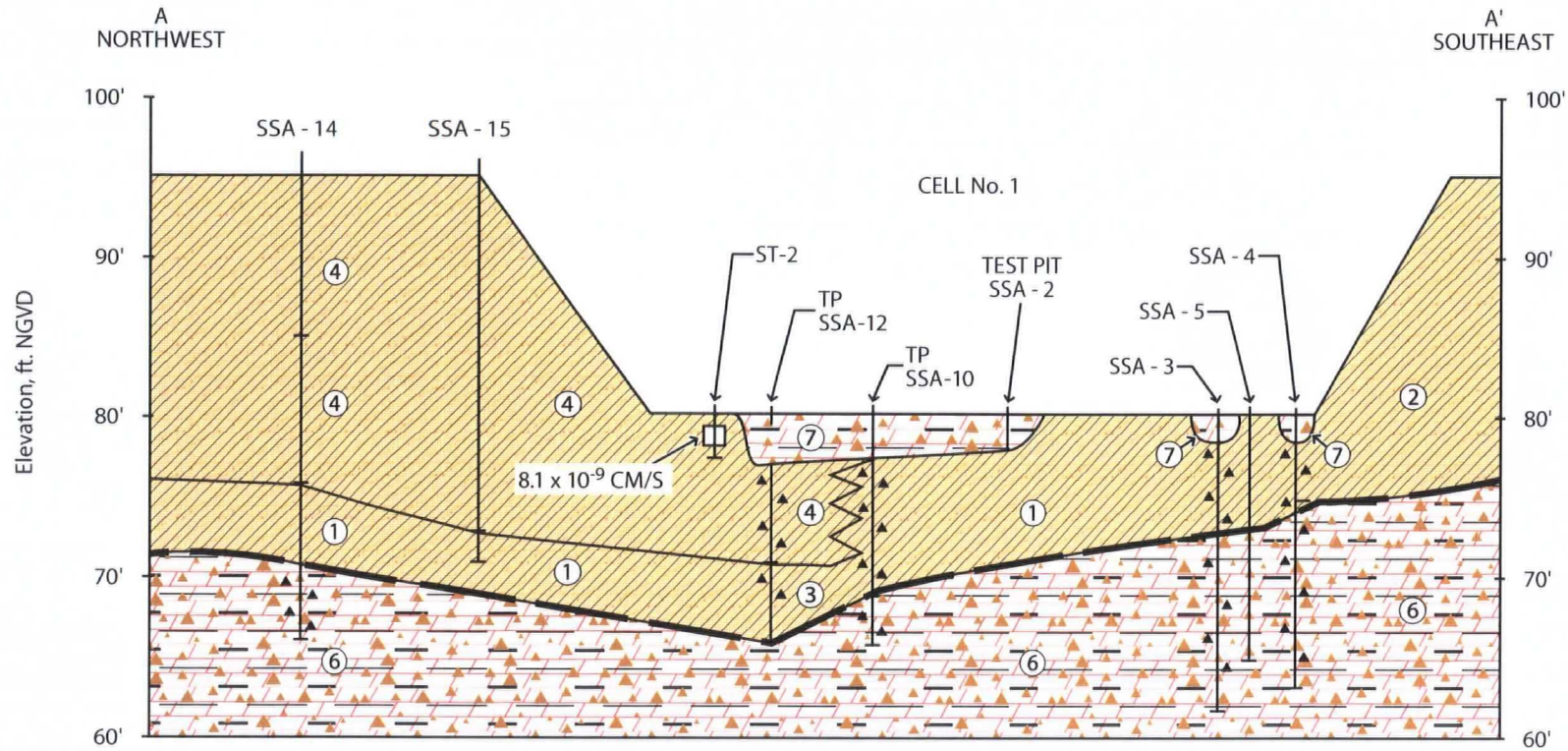
John Golden
E. GOLDEN
LICENSE
#945

**FIGURE
39**



HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
TELEPHONE (407) 839-3955 - FAX (407) 839-3790

**CONFINING LAYER CONTOUR MAP TEMPORARY POND
ENTERPRISE RECYCLING & DISPOSAL FACILITY
DADE CITY, FLORIDA**



HORIZONTAL SCALE 1" = 100'
 VERTICAL SCALE 1" = 10'



LEGEND

- CONFINING UNITS 1-4:
 - (1) SANDY CLAY
 - (2) SILTY CLAY
 - (3) CLAY
 - (4) CLAYEY SAND
- UNITS 5-7: (5) SILTY SAND
(6) LS MARL
(7) LIMESTONE
- 5.1×10^{-8} CM/S - PERMEABILITY TEST RESULTS
- LIMESTONE FRAGMENTS

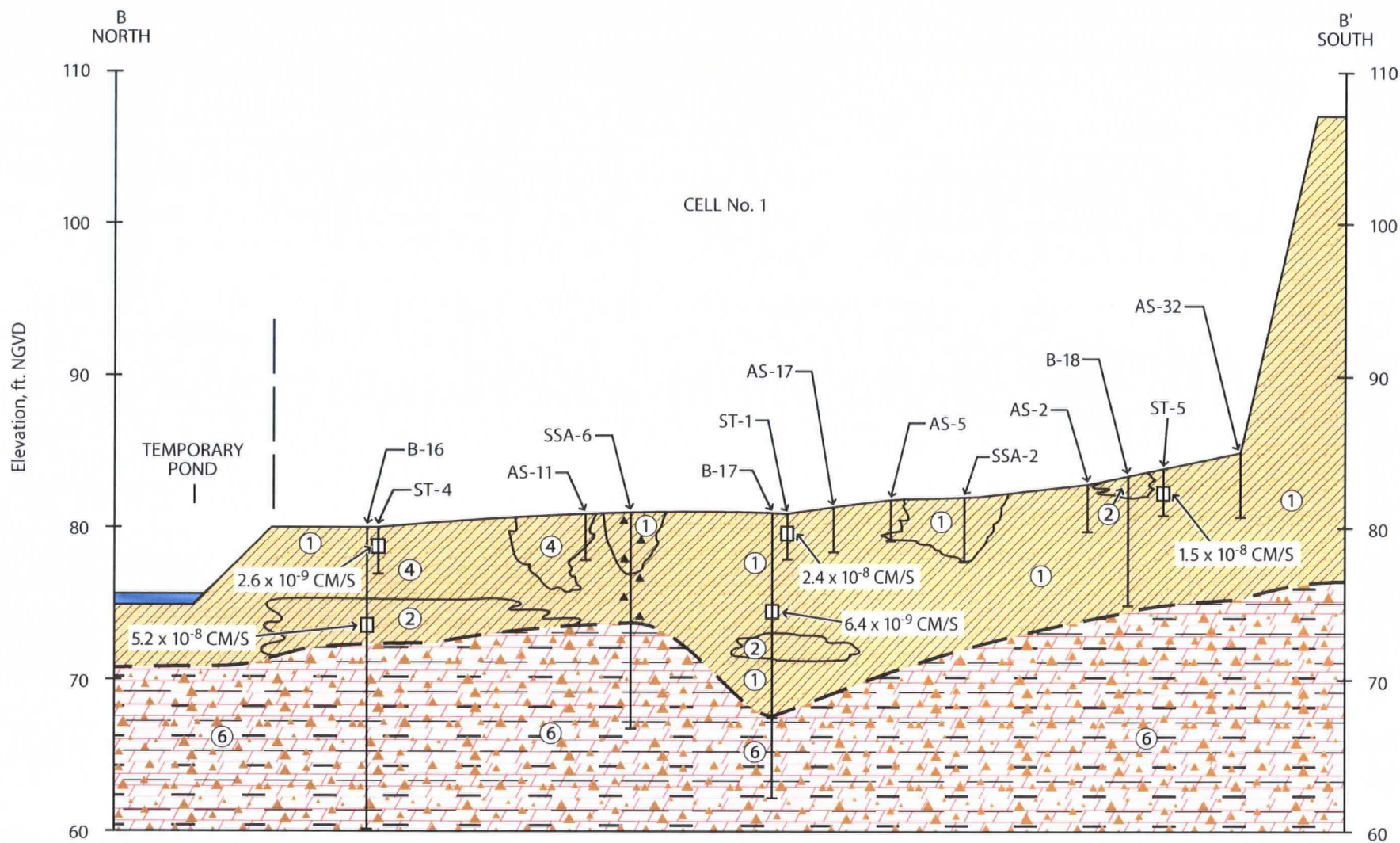
99.0331.007-15-dfh-Fig01_11010703A1

FIGURE
1



HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors, & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
 TELEPHONE (407) 839-3955 - FAX (407) 839-3790

CELL No. 1 - CROSS-SECTION A-A' - CERTIFICATION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA



HORIZONTAL SCALE 1" = 100'
 VERTICAL SCALE 1" = 10'

LEGEND

- | | | |
|----------------------|---------------------------|---|
| CONFINING UNITS 1-4: | UNITS 5-7: (5) SILTY SAND | 5.1×10^{-8} CM/S - PERMEABILITY TEST RESULTS |
| (1) SANDY CLAY | (6) LS MARL | LIMESTONE FRAGMENTS |
| (2) SILTY CLAY | (7) LIMESTONE | |
| (3) CLAY | | |
| (4) CLAYEY SAND | | |

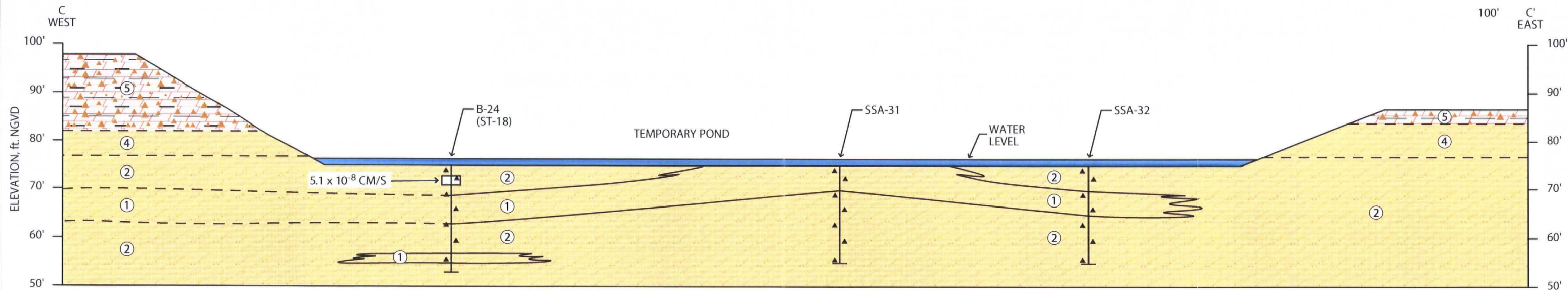
99.0331.007-15.dlm-Fig02.10/07/03.al

FIGURE 2



HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors, & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
 TELEPHONE (407) 839-3955 - FAX (407) 839-3790

CELL No. 1 - CROSS-SECTION B-B' - CERTIFICATION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA



HORIZONTAL SCALE 1" = 60'
 VERTICAL SCALE 1" = 30'



LEGEND

- CONFINING UNITS 1-4:
 - (1) SANDY CLAY
 - (2) SILTY CLAY
 - (3) CLAY
 - (4) CLAYEY SAND
- UNITS 5-7: (5) SILTY SAND
(6) LS MARL
(7) LIMESTONE
- 5.1×10^{-8} CM/S - PERMEABILITY TEST RESULTS
- LIMESTONE FRAGMENTS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OCT 09 2003
 SOUTHWEST DISTRICT
 TAMPA

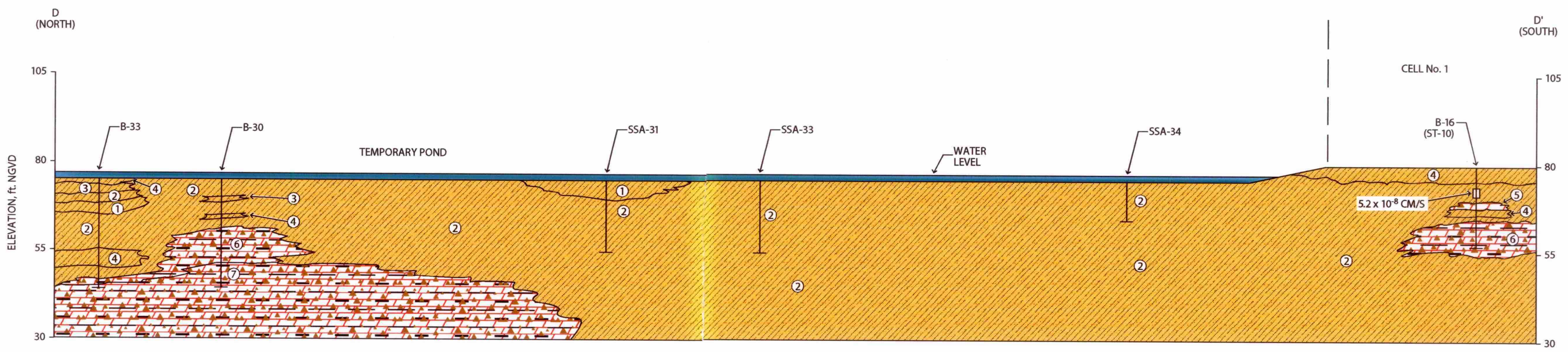
99.0311007-15.dwg-Fig03.11x17.10/07/03.jal

FIGURE 3

HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors, & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
 TELEPHONE (407) 839-3955 - FAX (407) 839-3790

CELL No. 15 - CROSS-SECTION C-C' - CERTIFICATION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA

1577050 ①



HORIZONTAL SCALE 1" = 50'
 VERTICAL SCALE 1" = 25'



LEGEND

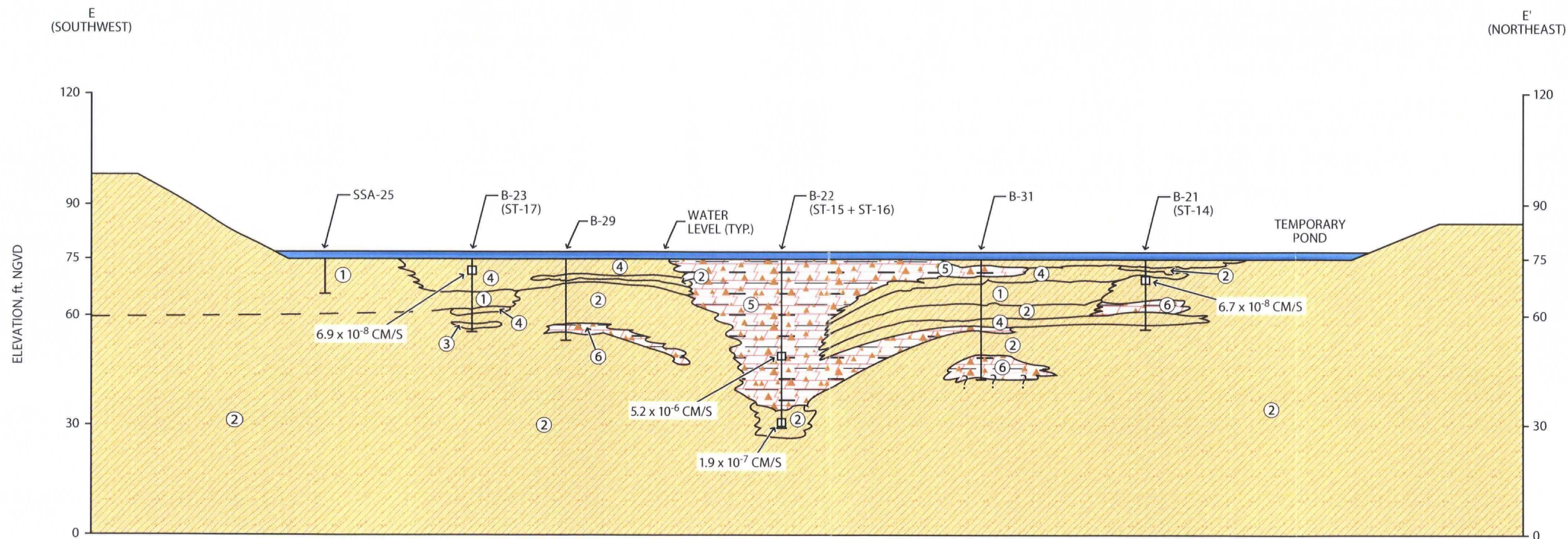
- | | |
|---|---|
|  CONFINING UNITS 1-4:
(1) SANDY CLAY
(2) SILTY CLAY
(3) CLAY
(4) CLAYEY SAND |  UNITS 5-7: (5) SILTY SAND
(6) LS MARL
(7) LIMESTONE |
|  5.1 x 10 ⁻⁸ CM/S - PERMEABILITY TEST RESULTS |  LIMESTONE FRAGMENTS |

99033100715-dp-figure_1928x11-100707050

FIGURE 4

HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors, & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
 TELEPHONE (407) 839-3955 - FAX (407) 839-3790

CELL No. 15 - CROSS-SECTION D-D' - CERTIFICATION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA



HORIZONTAL SCALE 1" = 60'
 VERTICAL SCALE 1" = 30'



LEGEND

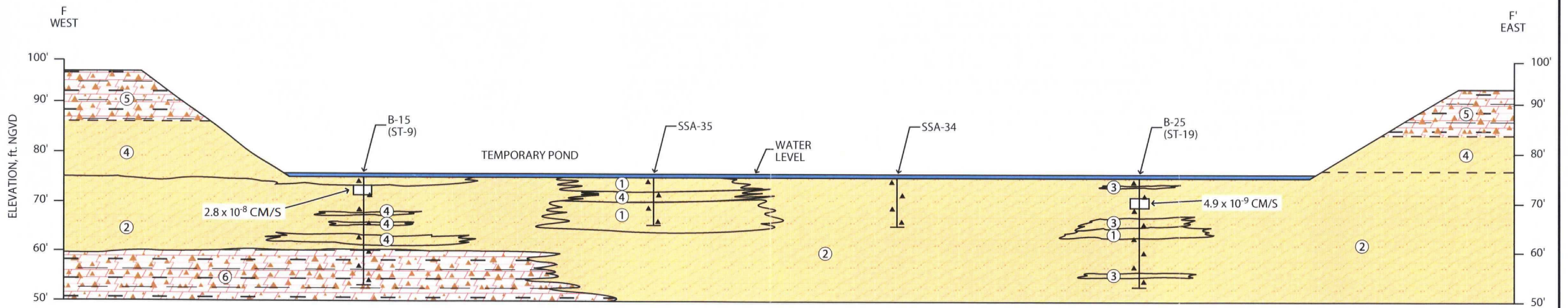
- | | | | |
|--|---|--|---|
| | CONFINING UNITS 1-4:
(1) SANDY CLAY
(2) SILTY CLAY
(3) CLAY
(4) CLAYEY SAND | | UNITS 5-7: (5) SILTY SAND
(6) LS MARL
(7) LIMESTONE |
| | 5.1 x 10^-8 CM/S - PERMEABILITY TEST RESULTS | | LIMESTONE FRAGMENTS |

99.031.007-15.dfn-Fig05_11x17_10/07/03.ai

FIGURE 5

HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors, & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
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CELL No. 16 - CROSS-SECTION E-E' - CERTIFICATION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA



HORIZONTAL SCALE 1" = 40'
 VERTICAL SCALE 1" = 20'



LEGEND

- | | |
|---|---|
| CONFINING UNITS 1-4:
(1) SANDY CLAY
(2) SILTY CLAY
(3) CLAY
(4) CLAYEY SAND | UNITS 5-7: (5) SILTY SAND
(6) LS MARL
(7) LIMESTONE |
| 5.1 x 10 ⁻⁸ CM/S - PERMEABILITY TEST RESULTS | LIMESTONE FRAGMENTS |

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OCT 09 2003
 SOUTHWEST DISTRICT TAMPA

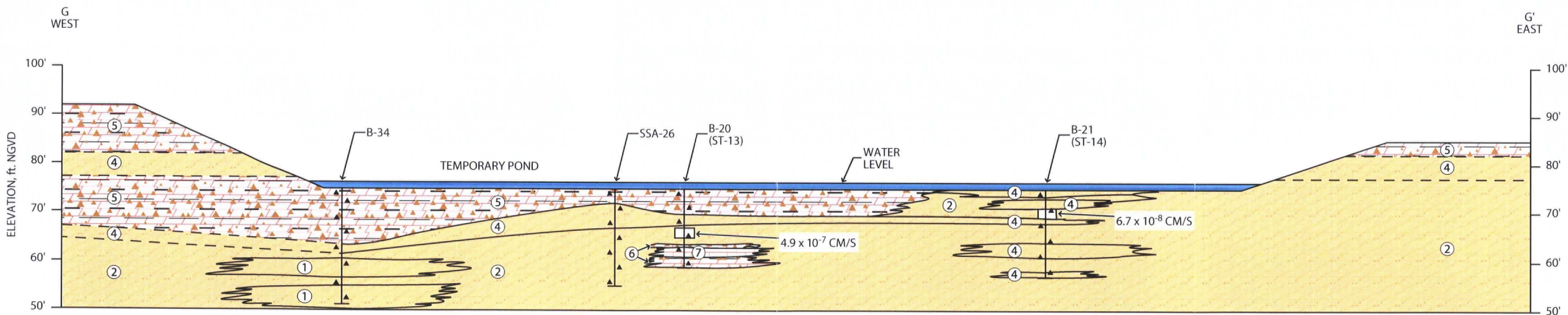
96100700745.dgn-Fig06, 11x17, 10/07/03

FIGURE 6



HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors, & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
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CELL No. 15 - CROSS-SECTION F-F' - CERTIFICATION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA



HORIZONTAL SCALE 1" = 60'
 VERTICAL SCALE 1" = 30'



LEGEND

- | | |
|--|---------------------------|
| CONFINING UNITS 1-4: | UNITS 5-7: (5) SILTY SAND |
| (1) SANDY CLAY | (6) LS MARL |
| (2) SILTY CLAY | (7) LIMESTONE |
| (3) CLAY | |
| (4) CLAYEY SAND | |
| 5.1 x 10^-8 CM/S - PERMEABILITY TEST RESULTS | LIMESTONE FRAGMENTS |



990331.007-15.04H-Fig07_11x17_100703A

FIGURE 7



HARTMAN & ASSOCIATES, INC.
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CELL No. 16 - CROSS-SECTION G-G' - CERTIFICATION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA

**SPT BORING B-1 (MW-1 Pilot Boring) LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA**

SAMPLE DATE: April 7, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
DEPTH FROM	DEPTH TO	ELEV. (MSL)			1st	2nd	3rd	4th	N
0	1.5	115	(5) SILTY SAND, Brown, Medium to Fine, Well Sorted, Soft	1	2	3	4	7	
1.5	5	110	(5) SILTY SAND, Orange-Brown, Fine, Soft, Interstitial Clay	2	2	1	1	2	
5	10	105	(5) SILTY SAND, Dark Orange, Fine, Soft, Interstitial Clay	3	2	1	3	4	
10	15	100	(5) SILTY SAND, Dark Orange, Fine, Soft, Interstitial Clay	4	2	2	3	5	
15	20	95	(5) SILTY SAND, Dark Orange, Fine, Soft, Interstitial Clay	5	2	4	4	8	
20	25	90	(5) SILTY SAND, Orange, Fine, Soft, Interstitial Clay	6	4	6	6	12	
25	30	85	(5) SILTY SAND, Tan- Orange, Fine, Soft, Interstitial Clay	7	5	6	8	14	
30	35	80	(5) SILTY SAND, Tan- Orange, Fine, Soft, Interstitial Clay	8	5	5	7	12	
35	40	75	(5) SILTY SAND, Dark Orange, Fine, Soft, Interstitial Clay	9	4	6	8	14	
40	45	70	(5) SILTY SAND, Dark Orange, Fine, Soft, Interstitial Clay	10	7	9	1	10	
45	50	65	(5) SILTY SAND, Dark Orange, Fine, Soft, Interstitial Clay	11	6	9	11	20	
50	55	60	(5) SILTY SAND, Dark Orange, Fine, Soft, Interstitial Clay	12	8	11	17	28	
55	60	55	(5) SILTY SAND, Brown-Orange, Fine, Soft, Interstitial Clay	13	10	12	19	31	

**SPT BORING B-5 (MW-5 Pilot Boring) LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: April 3, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

DEPTH FROM	TO	APPROX. ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
					1st	2nd	3rd	4th	N
0	1.5	83	(5) SILTY SAND, Brown, Medium to Fine, Well Sorted, Soft	1	1	2	5		7
1.5	5	78	(5) SILTY SAND, Brown-Tan, Fine to Very Fine, Soft, Interstitial Clay	2	1	1	1		2
5	10	73	(5) SILTY SAND, Orange-Rust, Med to V. Fine, Semi-Firm, Int. Clay	3	3	3	3		6
10	15	68	(4) CLAYEY SAND, Gray, Med to V. Fine, Semi-firm	4	2	3	5		8
15	20	63	(1) SANDY CLAY, Lt. Gray, Med to Silt, V. Firm	5	3	5	10		15
20	25	58	(1) SANDY CLAY, Lt. Gray/Tan-Orange, Fine to Silt, V. Firm	6	3	5	7		12
25	30	53	(2) SILTY CLAY, Lt. Orange/Tan (mottled), V. Firm	7	3	4	5		9
30	35	48	(1) SANDY CLAY, Lt. Orange/Tan (mottled), V. Firm	8	3	4	6		10
35	40	43	(1) SILTY CLAY, Tan/Orange (mottled), Firm	9	3	3	4		7
40	45	38	(1) SILTY CLAY, Lt Green/Tan-Orange, Semi Firm to Soft	10	2	3	4		7
45	50	33	(4) CLAYEY SAND, Tan/Orange (mottled), Semi Firm to Soft	11	2	4	5		9
50	55	28	(4) CLAYEY SAND, Orange-Tan, Coarse to V. Fine, Mod. Clay, Soft	12	3	4	5		9
55	60	23	(4) CLAYEY SAND, Rust-Dk. Brown, Med to Silt, Mod. Clay, Soft	13	1	3	2		5
60	65	18	(2) SILTY CLAY, Dk. Orange-Rust, Firm, Fe-Hardpan Fragments	14	2	2	3		5
68.5	69	14	(7) LIMEROCK	15	1				
69	70	13	(2) SILTY CLAY, Tan-Orange (mottled), Firm	15		1	2		
70	75	8	(2) SILTY CLAY, Lt. Tan/Dk. Organge (mottled), V. Firm	17	2	2	4		
75	80	3	(2) SILTY CLAY, Lt. Tan/Organge (mottled), V. Firm, Few LS Frag.	18	3	2	4		6
80	85	-2	(2) SILTY CLAY, Lt. Tan/Organge (mottled), V. Firm	19	6	2	4		6
85	90	-7	(2) SILTY CLAY, Lt. Tan/Organge (slightly mottled), V. Firm	20	wh	3	2		5
90	95	-12	(4) CLAYEY SAND, Lt. Tan/Orange, Soft, Fe-Hardpan Fragments	21	1	1	1		2

SPT BORING B-4 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: March 7, 2000
 COLLECTED BY: Valerie Collins
 WATER DEPTH: NA

DEPTH		APPROX.	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
FROM	TO	ELEV. (MSL)			1st	2nd	3rd	4th	N
0	6	94	(5) SILTY SAND, Orange	1	2	2	3		5
6	11	83	(5) SILTY SAND, Orange, Trace to Minor Clay	2	5	7	8		15
11	15	79	(1) SANDY CLAY, Orange, Lt. Gray	3	4	5	7		12
15	20	74	(3) CLAY, Cream, Lt Orange, Trace Sand	4					
20	25	69	(3) CLAY, Cream, Minor Sand						
25	30	64	(3) CLAY, Cream, Slightly Sandy	5	4	5	6		11
30	35	59	(3) CLAY, Orange, Black, Cream, Slightly Sandy	6	3	5	7		12
35	40	54	(4) CLAYEY SAND, Orange, Black, Cream	7	5	4	5		9
40	45	49	(7) LIMESTONE, White, Soft to Hard	8	10	4	15		19
45	50	44	(7) LIMESTONE, White, Soft	9	10	12	14		26

B-15

(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

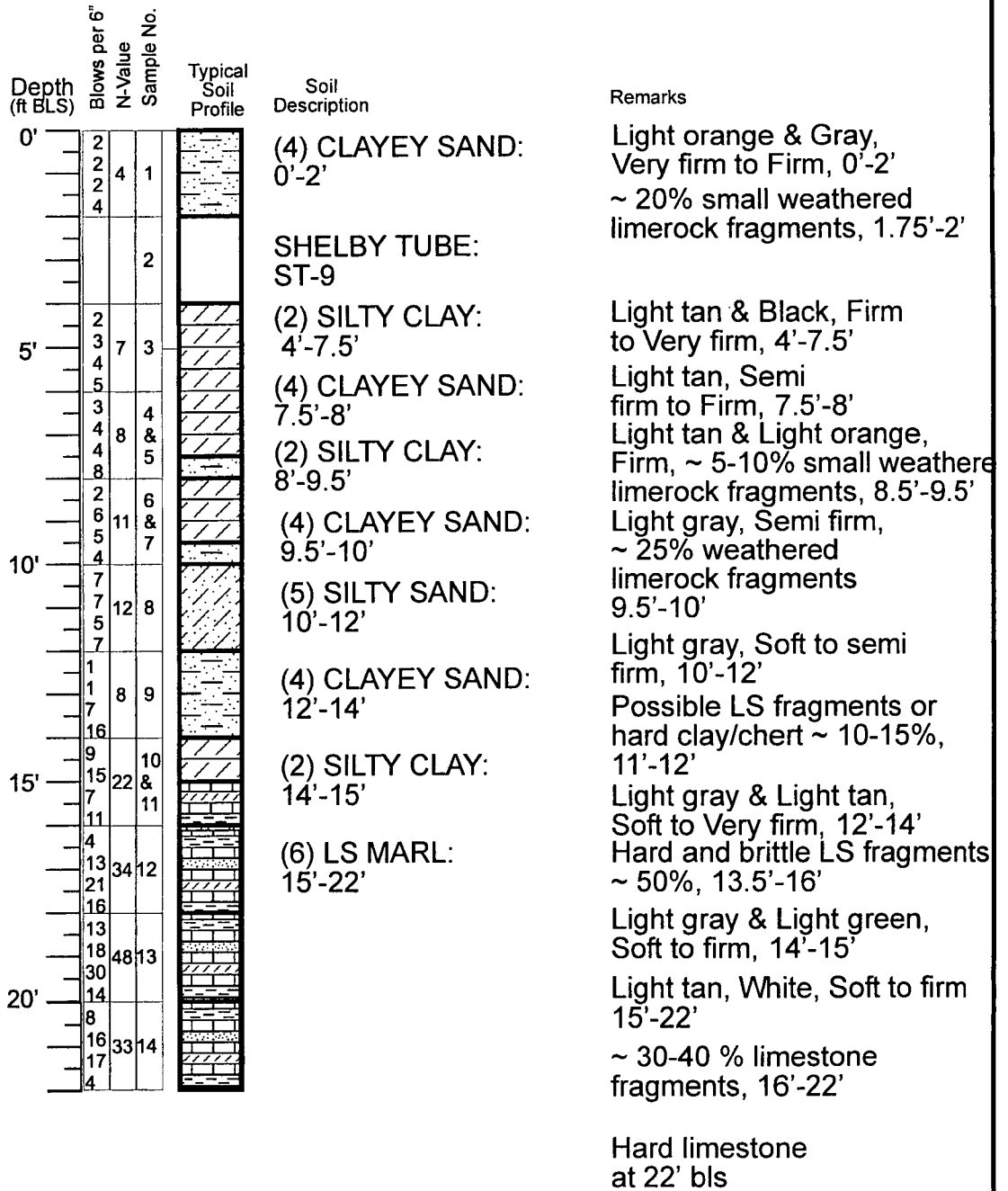
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" -Mud Rotary
DEPTH: 22' BLS
DATE STARTED: 8-22-03
DATE ENDED: 8-22-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING & DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
1

B-16 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

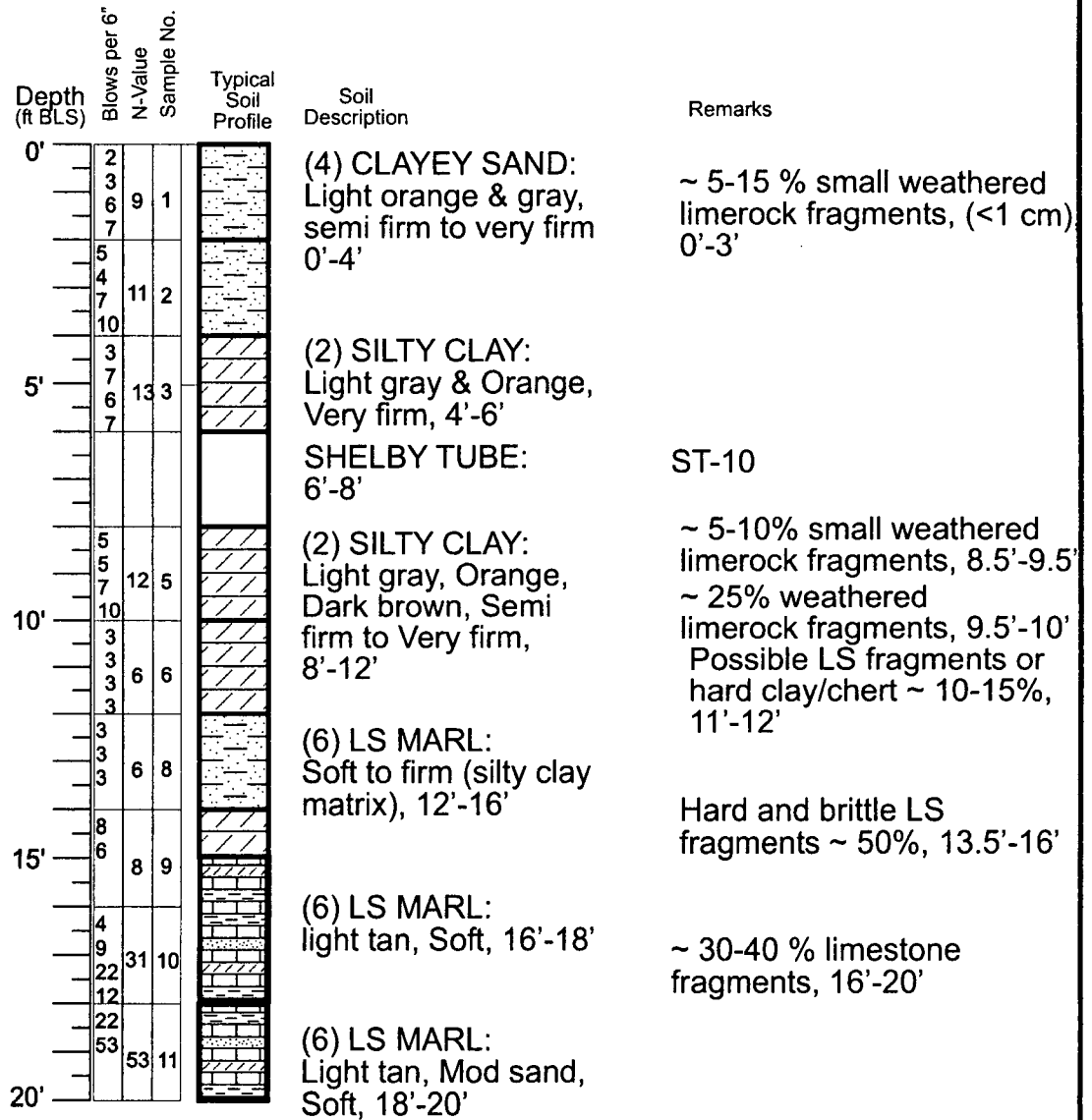
GR. ELEV: 80' NGVD
DIA-TYPE: 3 3/4'-Mud Rotary
DEPTH: 20' BLS
DATE STARTED: 8-22-03
DATE ENDED: 8-22-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

(1) SANDY CLAY	
(2) SILTY CLAY	
(3) CLAY	
(4) CLAYEY SAND	
(5) SILTY SAND	
(6) LS MARL	
(7) LIMESTONE	



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**STRATIGRAPHIC COLUMN
 ENTERPRISE RECYCLING
 & DISPOSAL FACILITY
 DADE CITY, FLORIDA**

**FIGURE
 2**

B-17

(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

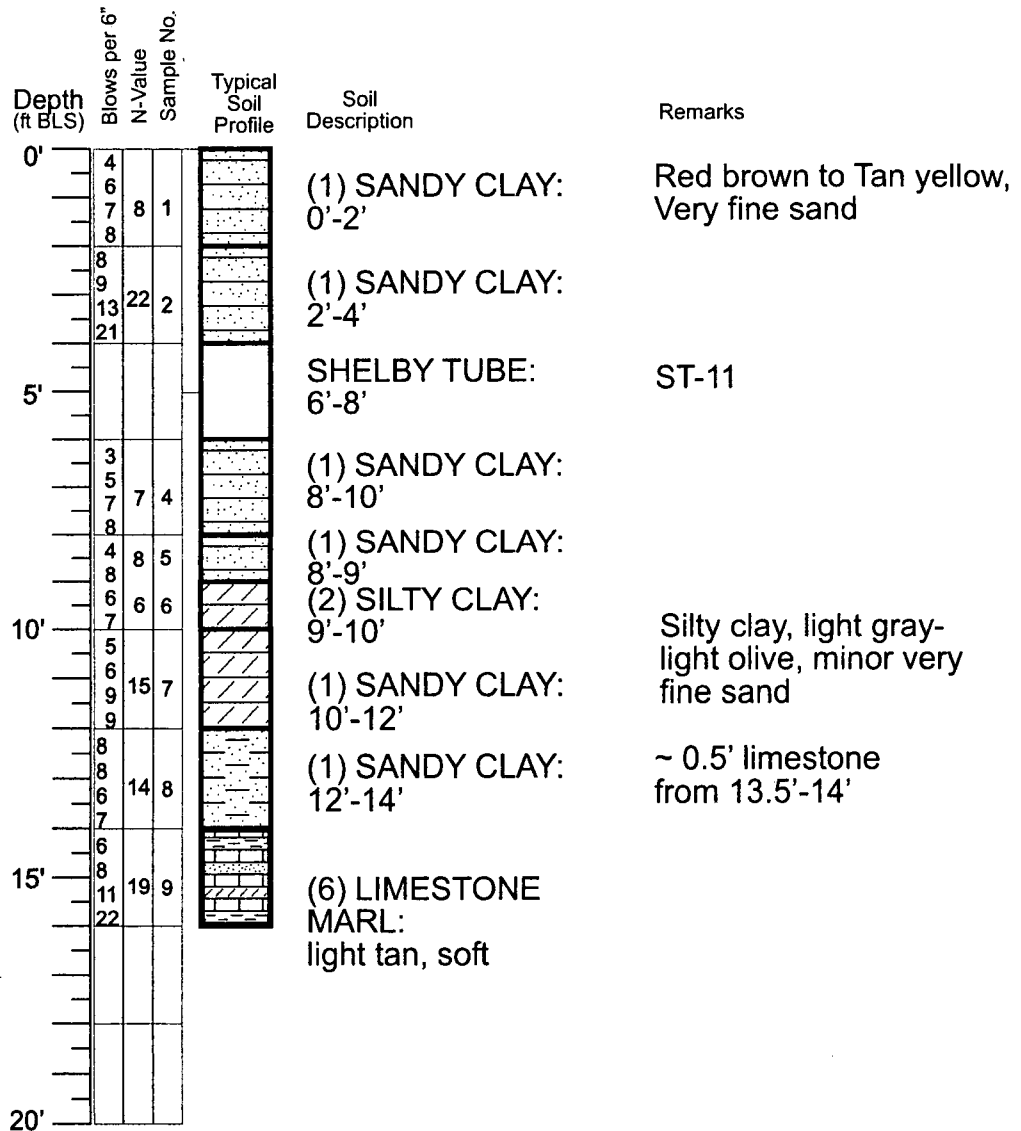
GR. ELEV: 82' NGVD
DIA-TYPE: 3 3/4" Mud Rotary
DEPTH: 16' BLS
DATE STARTED: 8-23-03
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
3

B-18

(SPT Boring)

PROJECT

NUMBER: 99.0331.007

NAME: Enterprise Recycling & Disposal Facility

LOCATION: Dade City, FL

BORING

GR. ELEV: 83' NGVD

DIA-TYPE: 3 3/4" Mud Rotary

DEPTH: 8' BLS

DATE STARTED: 8-23-03

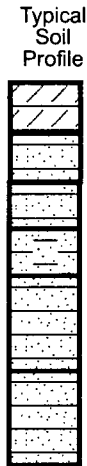
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45

CREW: AmcIII

Depth (ft BLS)	Blows per 6" N-Value	Sample No.
0'	2	1
1'	1	
2'	3	4 & 2
3'	6	
4'	6	3
5'	18	35 & 4
6'	17	
7'	20	
8'	5	
9'	5	14
10'	9	
	7	



Soil Description

(2) SILTY CLAY:
0'-1'

(1) SANDY CLAY:
1'-3'

(1) SANDY CLAY:
4'-6'

(1) SANDY CLAY:
6'-8'

Remarks

Very pale olive green

Failed shelly tube from 6'-8' (limerock @ 7.5') rotary wash 0'-4' in new boring, collected ST-11 from 4'-6'

LEGEND

(1) SANDY CLAY



(2) SILTY CLAY



(3) CLAY



(4) CLAYEY SAND



(5) SILTY SAND



(6) LS MARL



(7) LIMESTONE



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**STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA**

**FIGURE
4**

B-19 (SPT Boring)

PROJECT

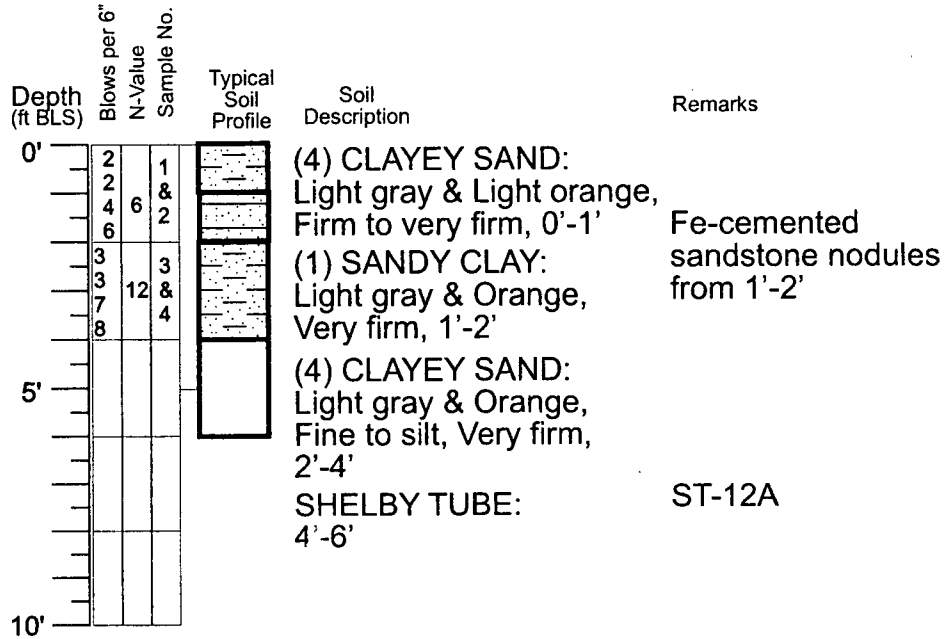
NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING








GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" -Mud Rotary
DEPTH: 6' BLS
DATE STARTED: 8-26-03
DATE ENDED: 8-26-03

DRILLING

RIG TYPE: CME 45
CREW: Amcdrill



LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 

N:\HYDROLARKIN\borings logs\B-19.CDR



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**STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA**

**FIGURE
5**

B-20 (SPT Boring)

PROJECT

NUMBER: 99.0331.007

NAME: Enterprise Recycling & Disposal Facility

LOCATION: Dade City, FL

BORING

GR. ELEV: 75' NGVD

DIA-TYPE: 3 3/4" Mud Rotary

DEPTH: 16' BLS

DATE STARTED: 8-26-03

DATE ENDED: 8-26-03

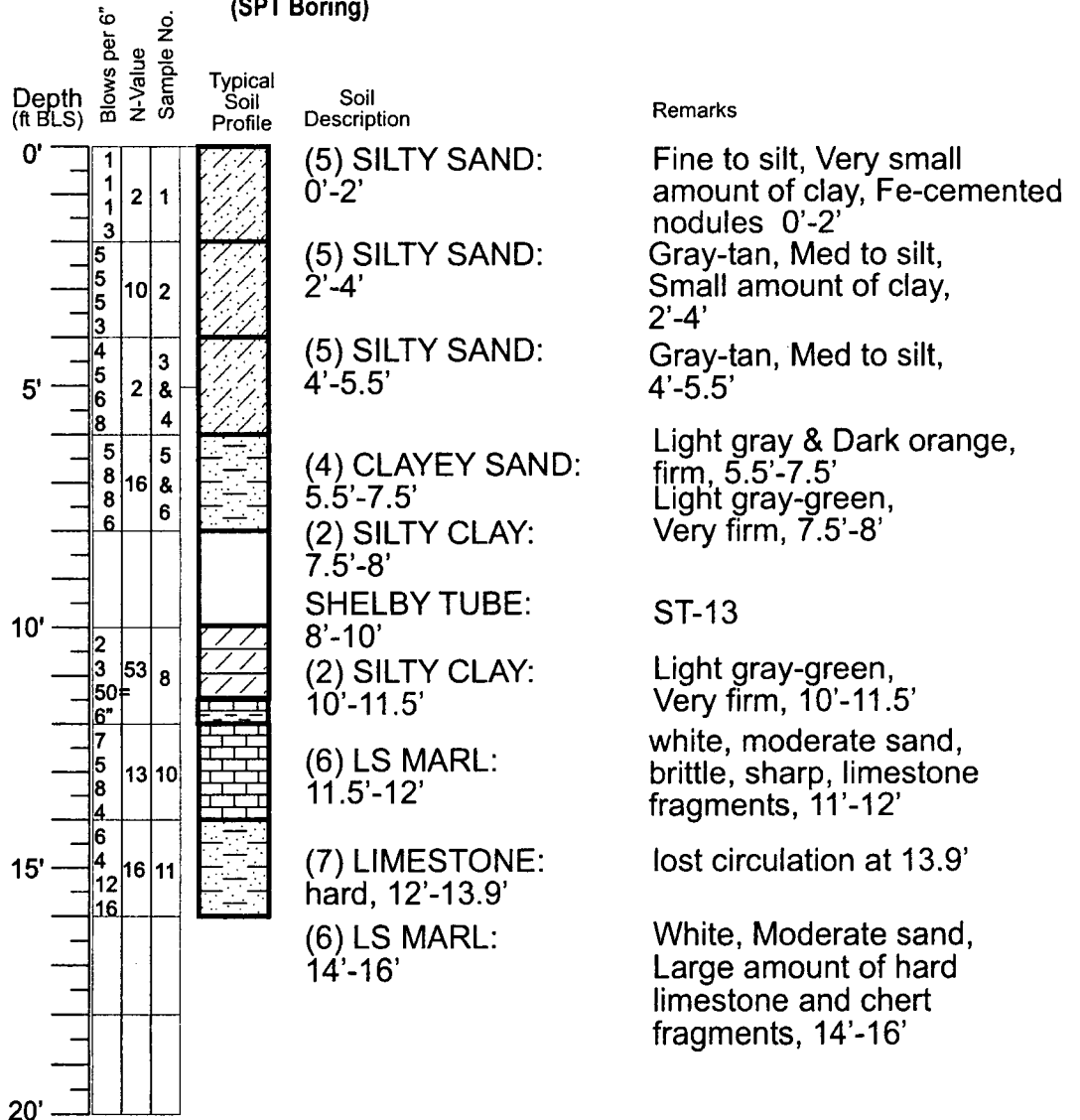
DRILLING

RIG TYPE: CME 45

CREW: Amdrill

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE



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**STRATIGRAPHIC COLUMN
 ENTERPRISE RECYCLING
 & DISPOSAL FACILITY
 DADE CITY, FLORIDA**

**FIGURE
6**

B-21

(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

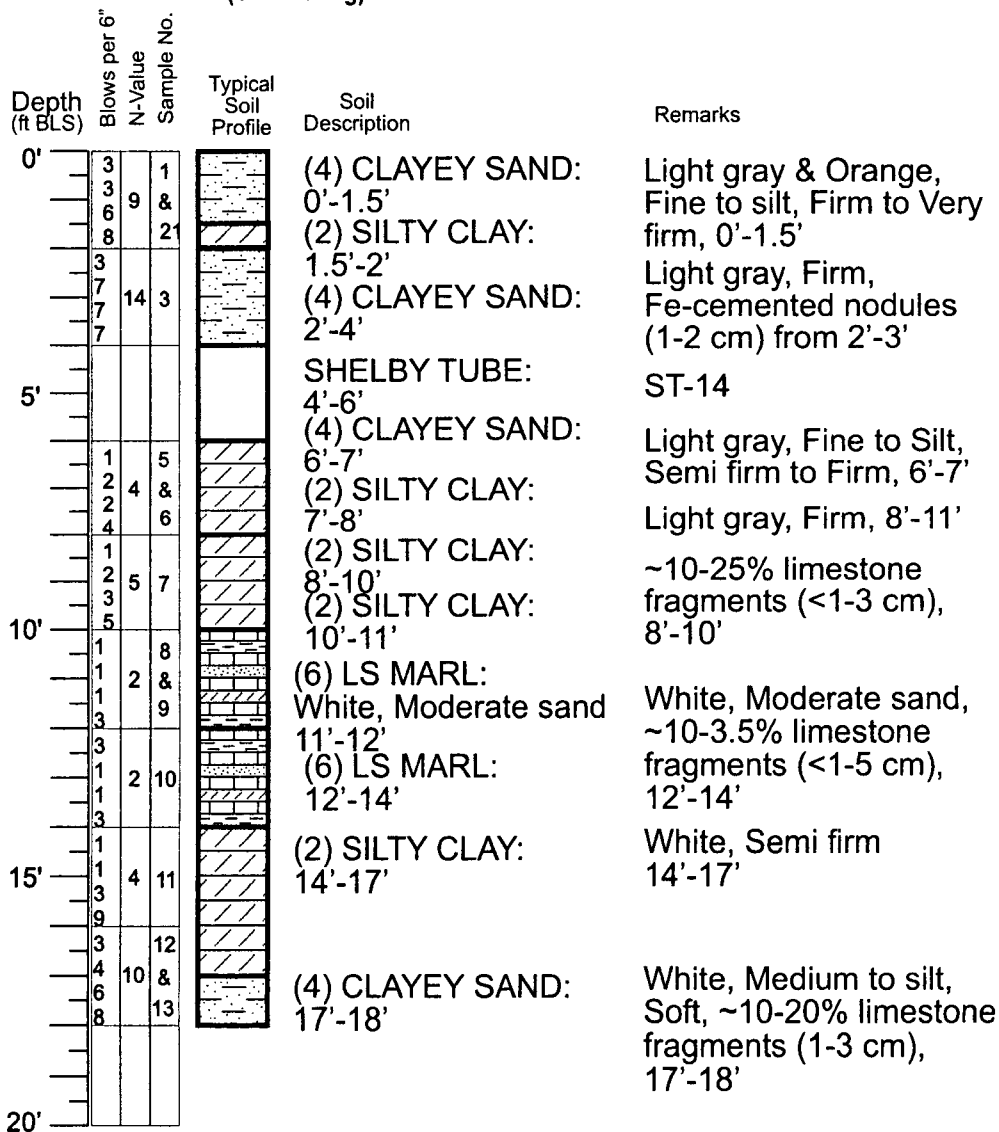
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4"-Mud Rotary
DEPTH: 18' BLS
DATE STARTED: 8-26-03
DATE ENDED: 8-26-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



B-22 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

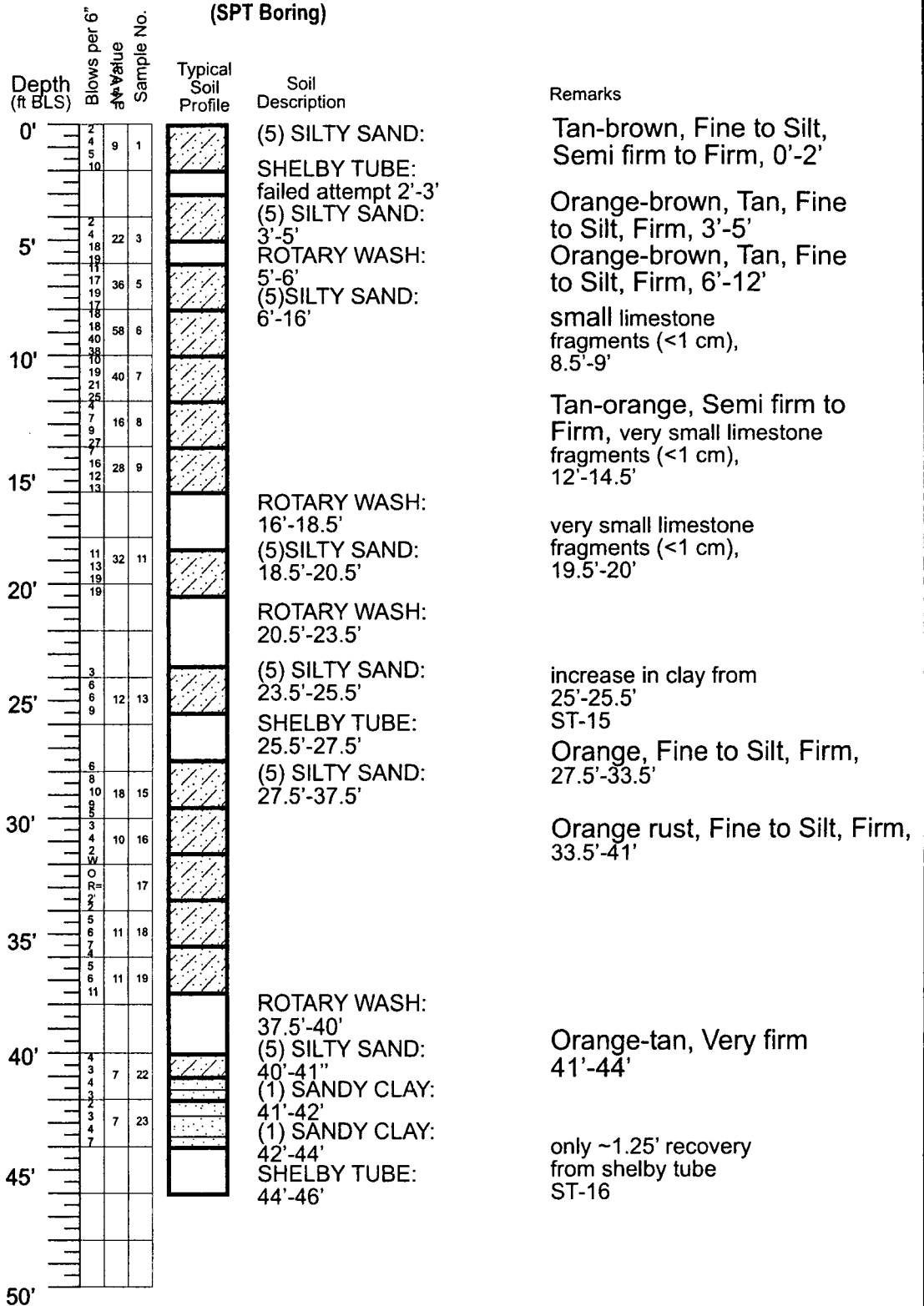
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4"-Mud Rotary
DEPTH: 46' BLS
DATE STARTED: 8-26-03
DATE ENDED: 8-26-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



N:\HYDROLARKIN\Boring logs\B-22.CDR



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**STRATIGRAPHIC COLUMN
 ENTERPRISE RECYCLING
 & DISPOSAL FACILITY
 DADE CITY, FLORIDA**

**FIGURE
 8**

B-23
(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

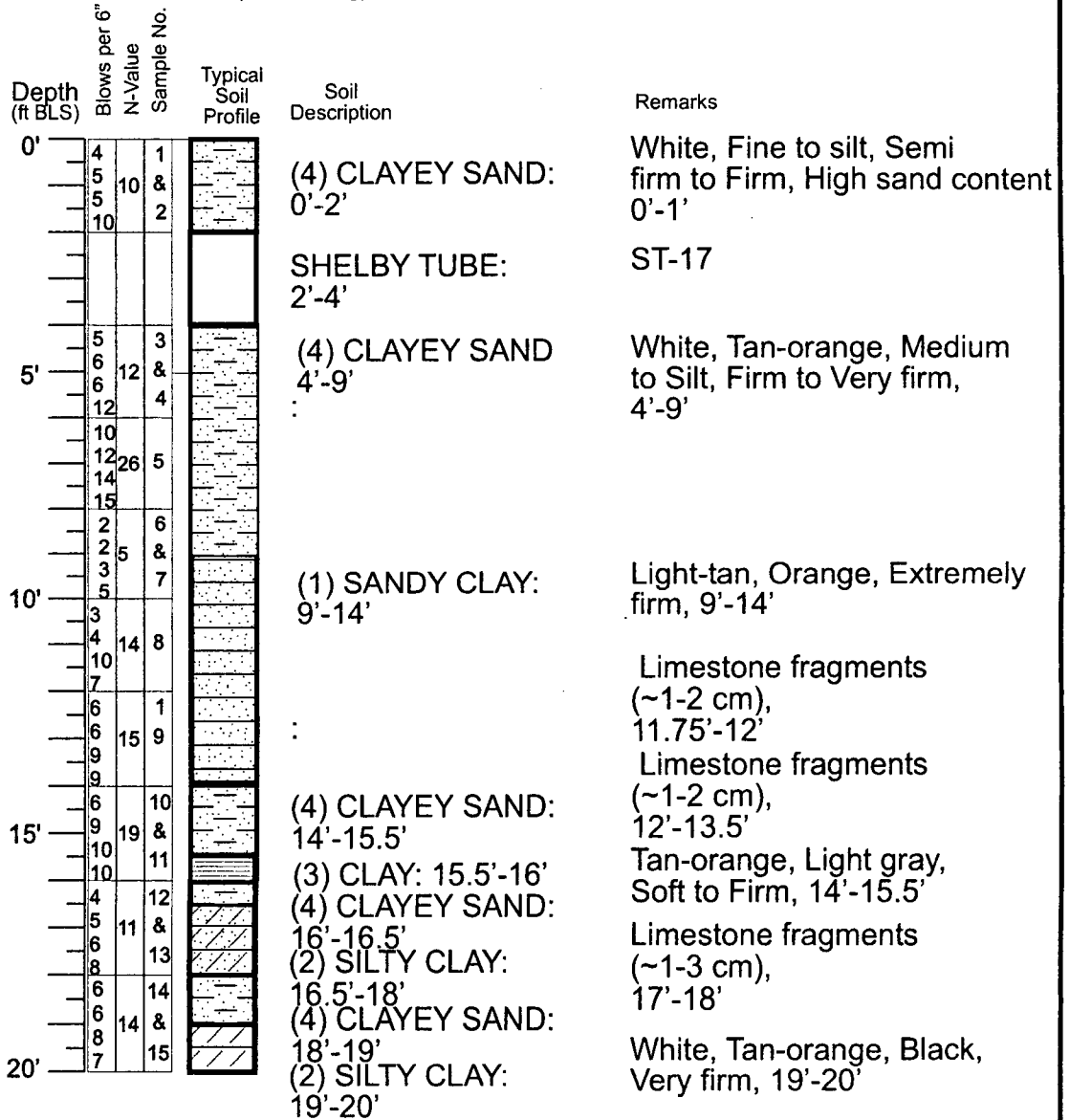
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" Mud Rotary
DEPTH: 20' BLS
DATE STARTED: 8-26-03
DATE ENDED: 8-26-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



N:\HYDROLARKIN\Boring logs\B-23.CDR



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
9

B-24

(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

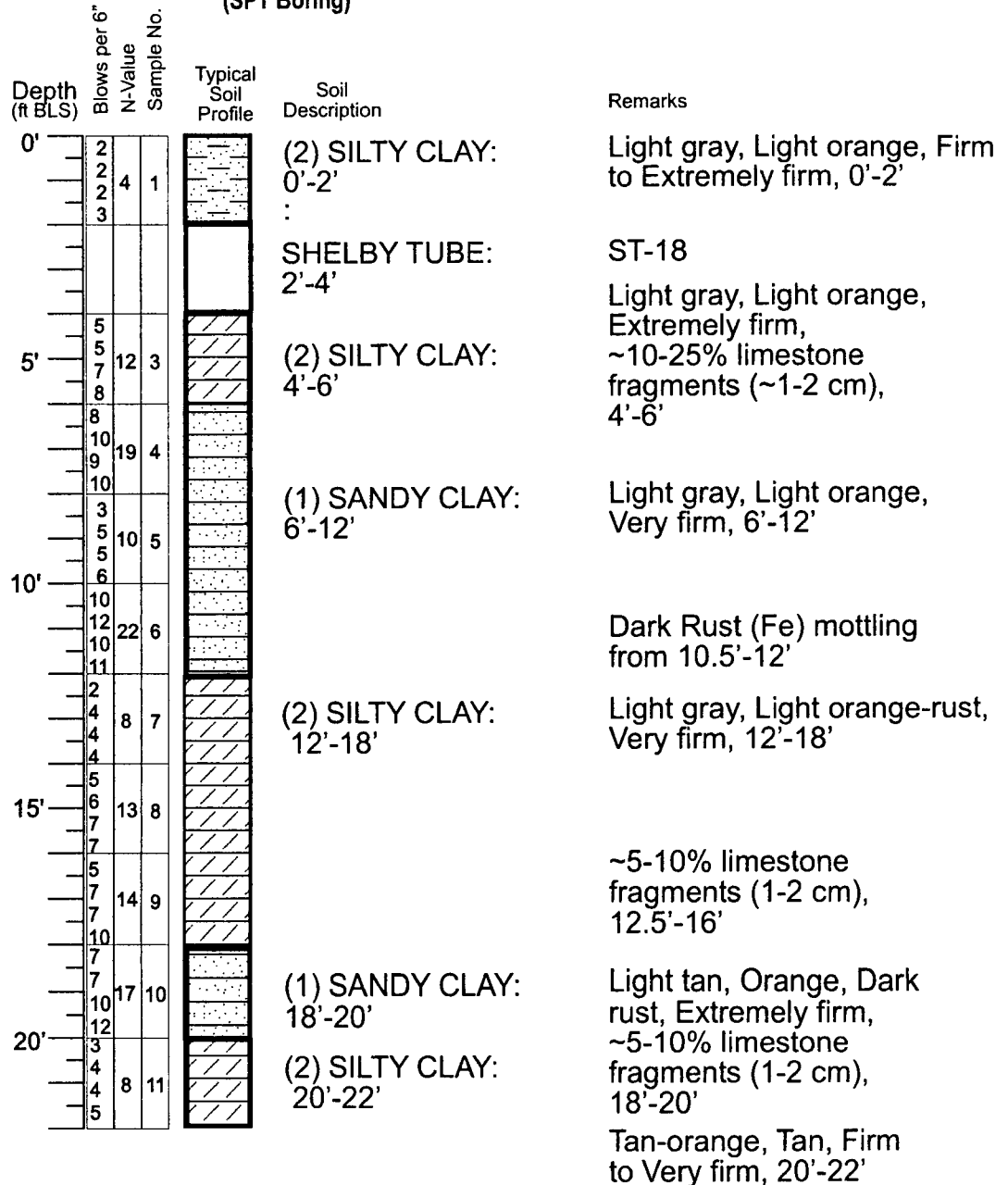
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4"-Mud Rotary
DEPTH: 22' BLS
DATE STARTED: 8-27-03
DATE ENDED: 8-27-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE



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FIGURE
10

B-25

(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

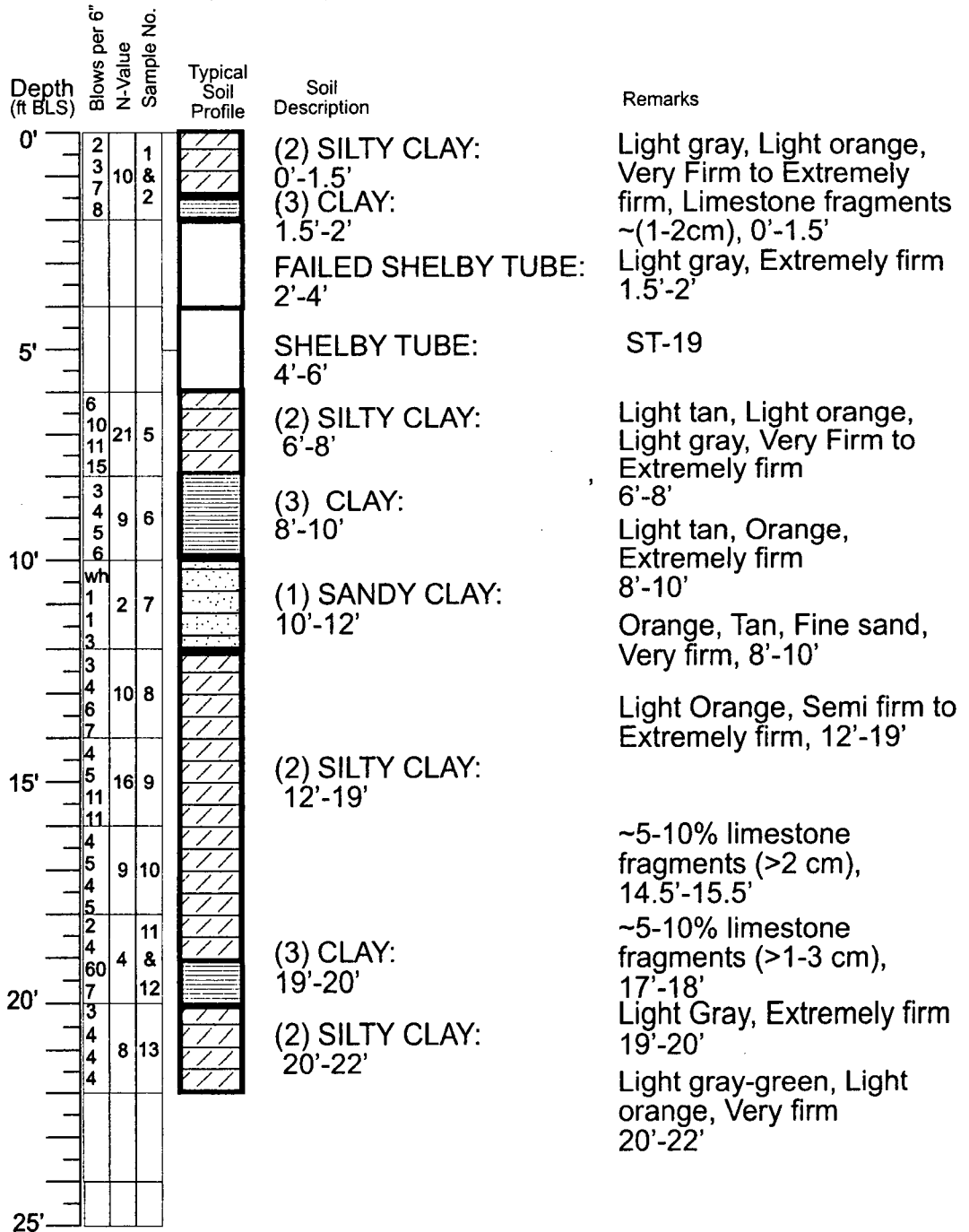
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" Mud Rotary
DEPTH: 22' BLS
DATE STARTED: 8-27-03
DATE ENDED: 8-27-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE



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DADE CITY, FLORIDA

FIGURE
11

B-26 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

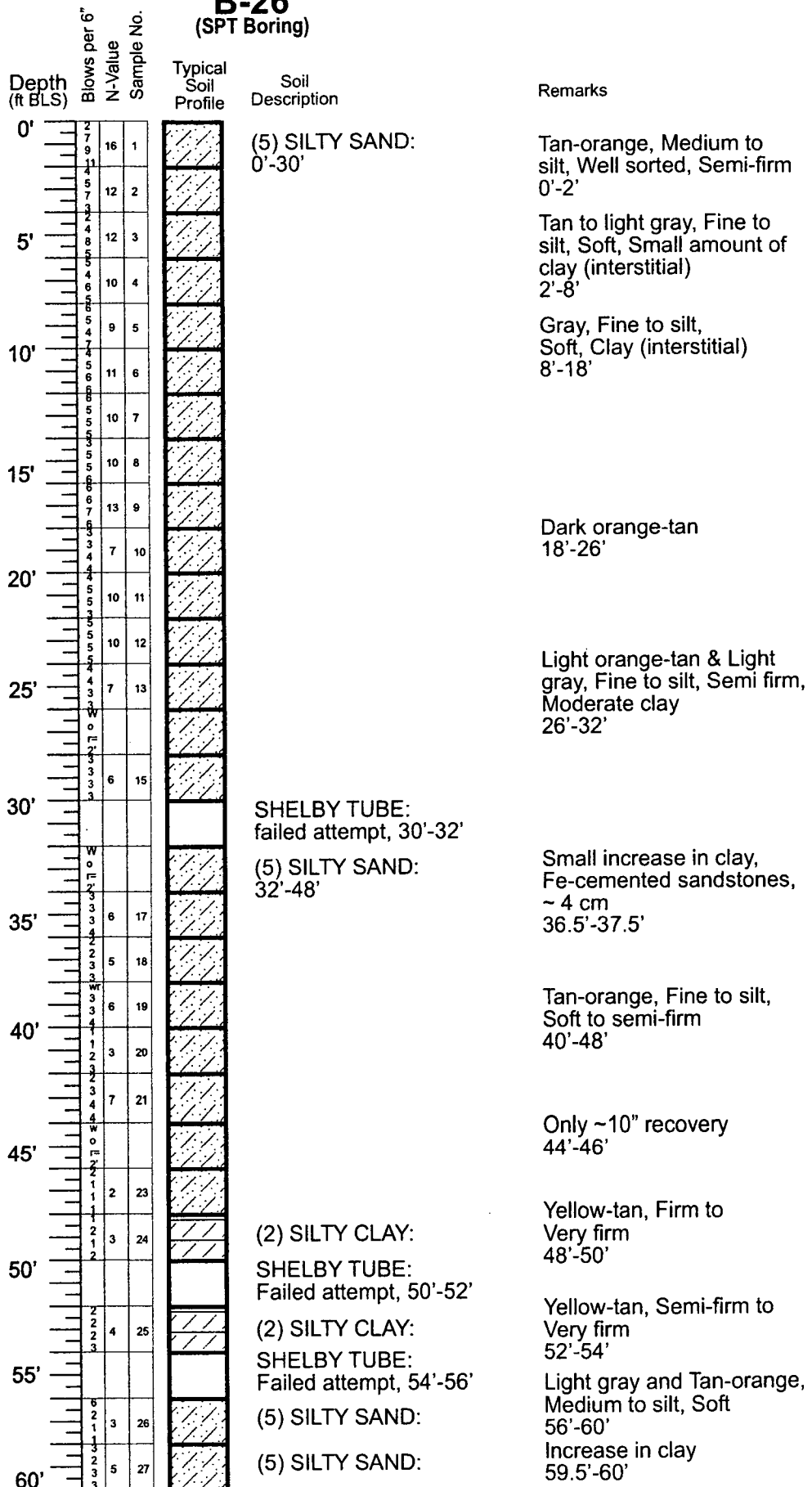
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4"-Mud Rotary
DEPTH: 60' BLS
DATE STARTED: 8-28-03
DATE ENDED: 8-28-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE



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 DADE CITY, FLORIDA**

**FIGURE
 12**

B-27 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

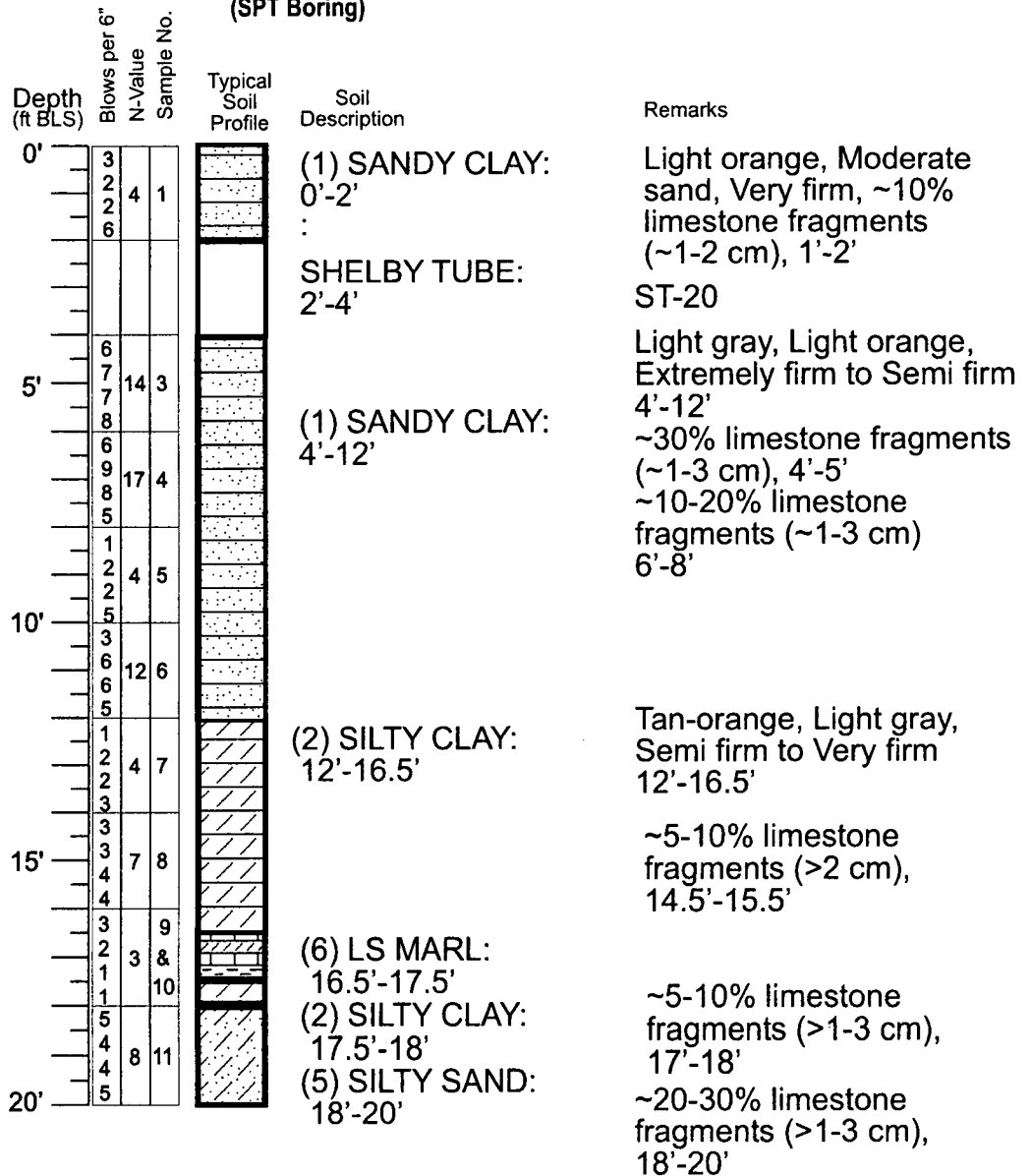
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4"-Mud Rotary
DEPTH: 20' BLS
DATE STARTED: 8-29-03
DATE ENDED: 8-29-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

(1) SANDY CLAY	
(2) SILTY CLAY	
(3) CLAY	
(4) CLAYEY SAND	
(5) SILTY SAND	
(6) LS MARL	
(7) LIMESTONE	



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 DADE CITY, FLORIDA**

**FIGURE
 13**

B-28

(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

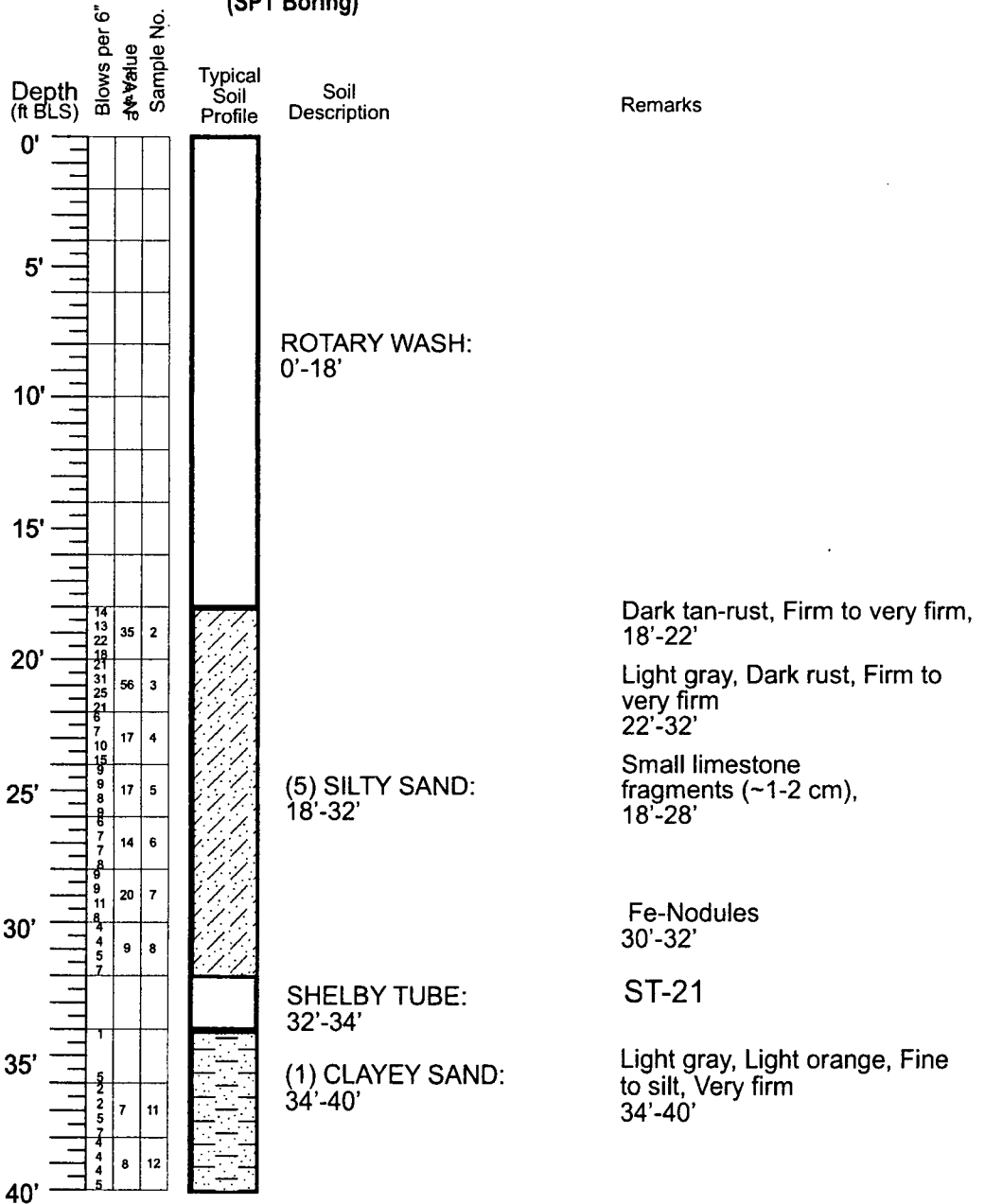
GR. ELEV: 96' NGVD
DIA-TYPE: 3 3/4"-Mud Rotary
DEPTH: 40' BLS
DATE STARTED: 8-29-03
DATE ENDED: 8-29-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
14

B-29 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

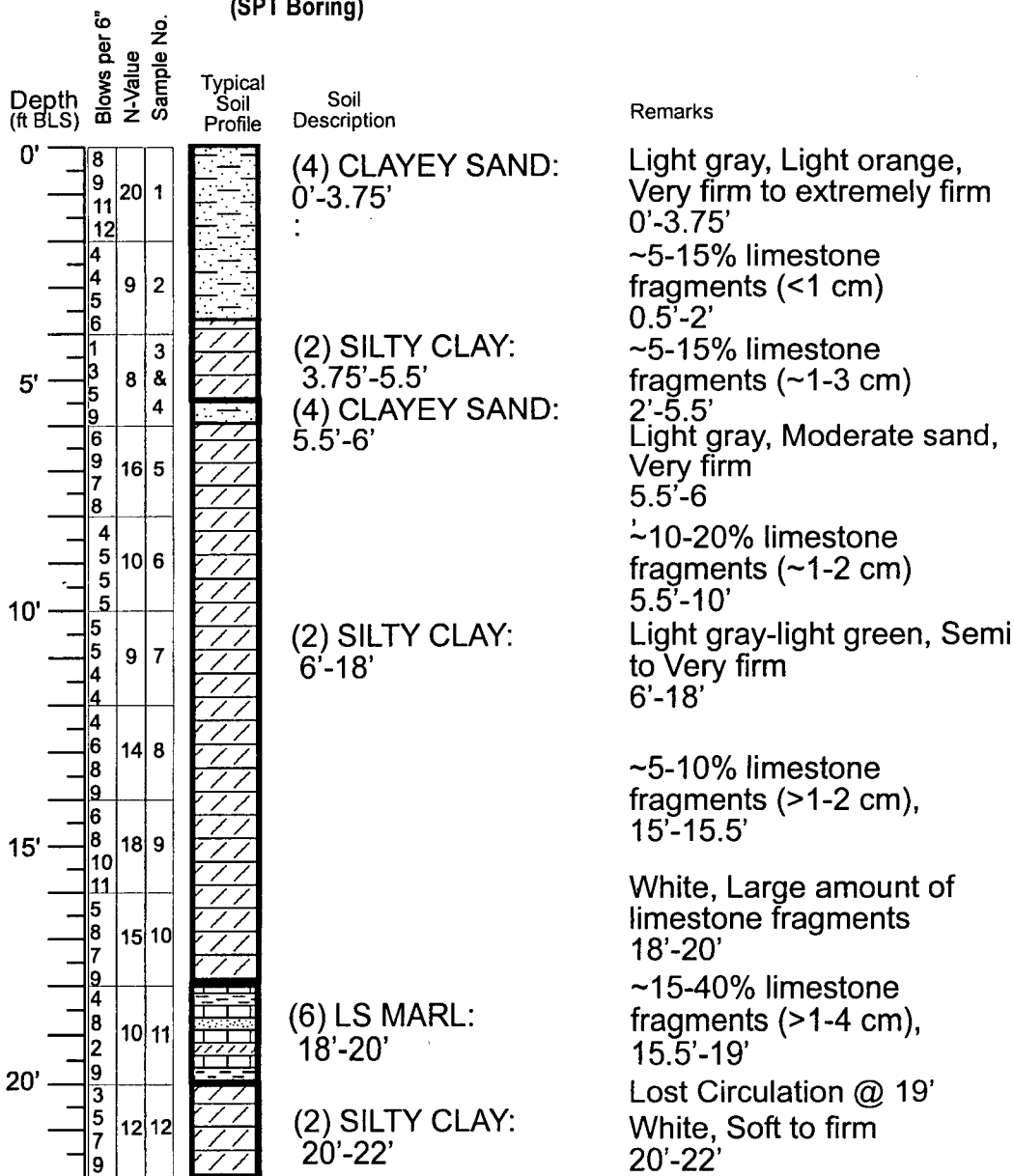
GR. ELEV: 96' NGVD
DIA-TYPE: 3 3/4" Mud Rotary
DEPTH: 22' BLS
DATE STARTED: 8-29-03
DATE ENDED: 9-2-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

(1) SANDY CLAY	
(2) SILTY CLAY	
(3) CLAY	
(4) CLAYEY SAND	
(5) SILTY SAND	
(6) LS MARL	
(7) LIMESTONE	



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 DADE CITY, FLORIDA**

**FIGURE
 15**

B-30 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

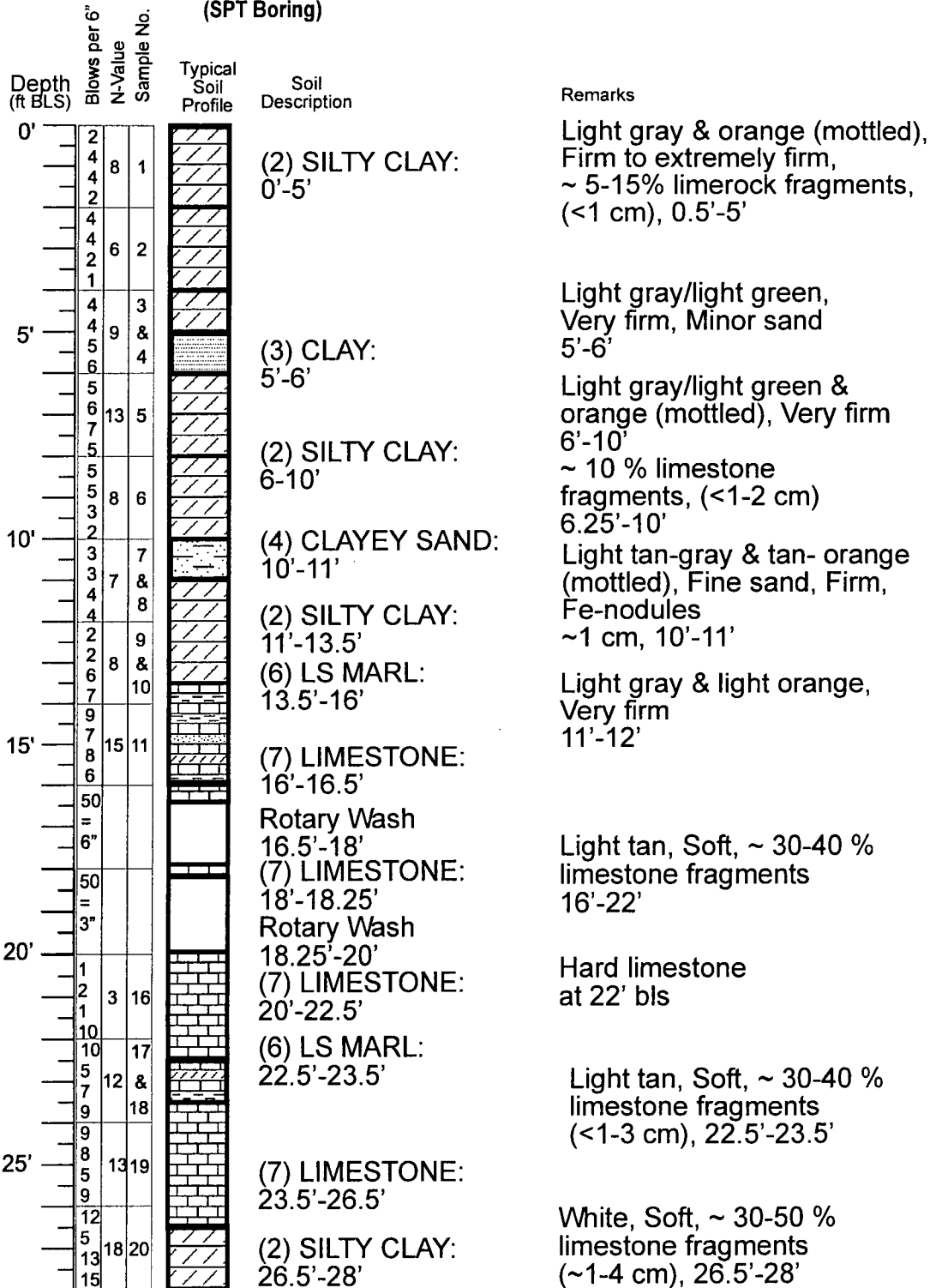
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" Mud Rotary
DEPTH: 28' BLS
DATE STARTED: 9-2-03
DATE ENDED: 9-2-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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 DADE CITY, FLORIDA**

**FIGURE
 16**

B-31 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

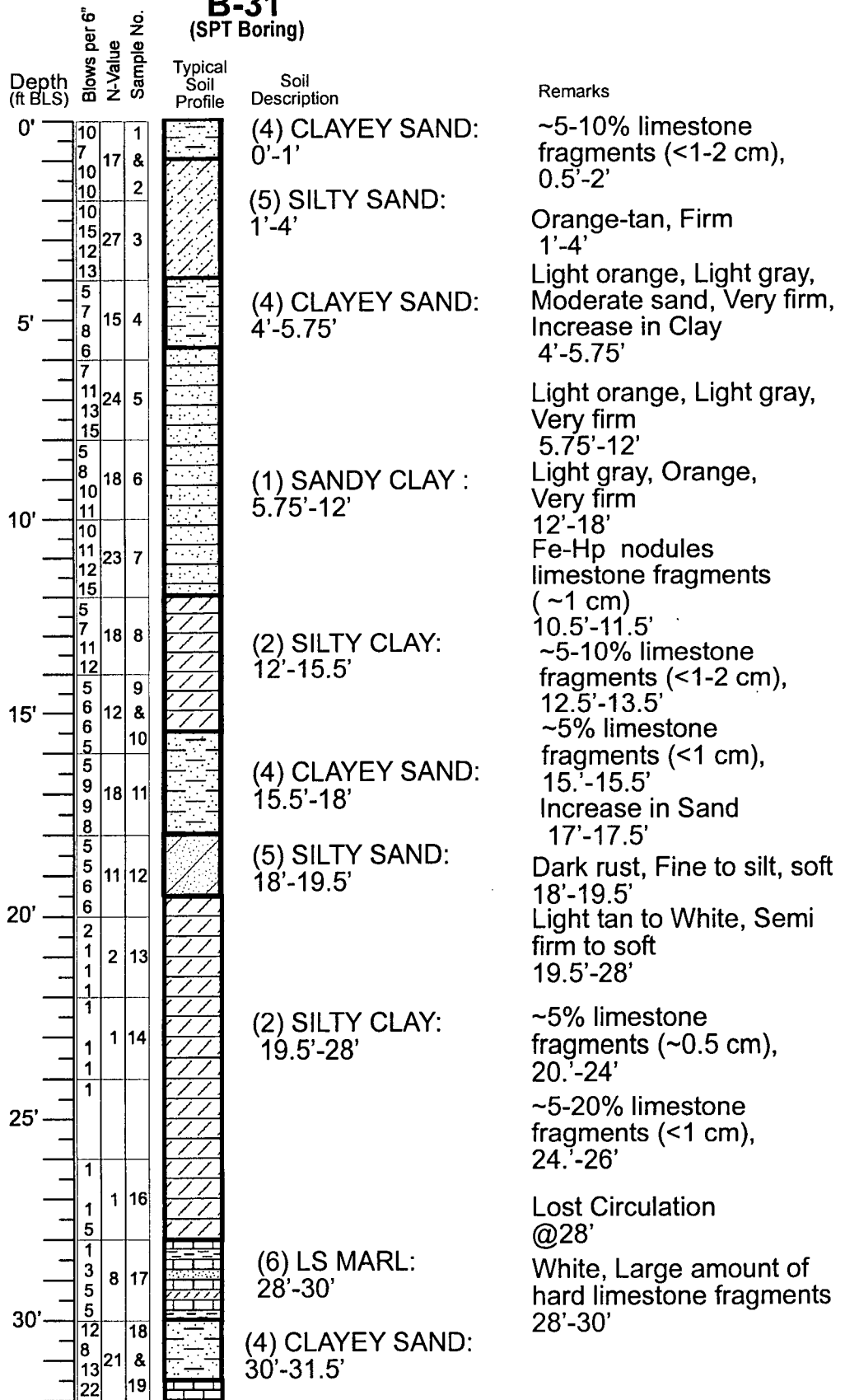
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" -Mud Rotary
DEPTH: 32' BLS
DATE STARTED: 9-2-03
DATE ENDED: 9-2-03

DRILLING

RIG TYPE: CME 45
CREW: AmcIII

LEGEND

(1) SANDY CLAY	
(2) SILTY CLAY	
(3) CLAY	
(4) CLAYEY SAND	
(5) SILTY SAND	
(6) LS MARL	
(7) LIMESTONE	



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**STRATIGRAPHIC COLUMN
 ENTERPRISE RECYCLING &
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 DADE CITY, FLORIDA**

**FIGURE
 17**

B-32 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

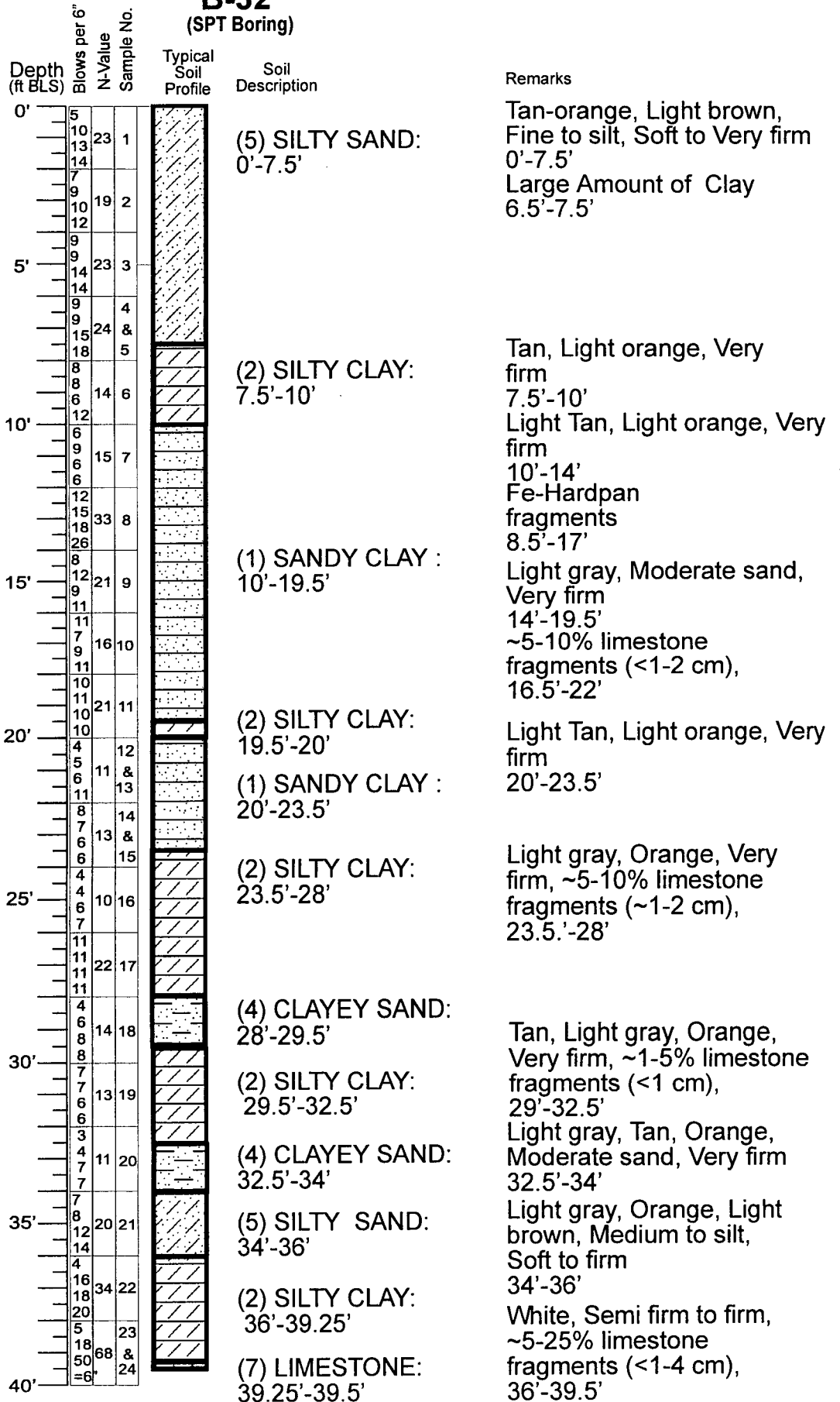
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" Mud Rotary
DEPTH: 39.5' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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**STRATIGRAPHIC COLUMN
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 DADE CITY, FLORIDA**

**FIGURE
 18**

B-33
(SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

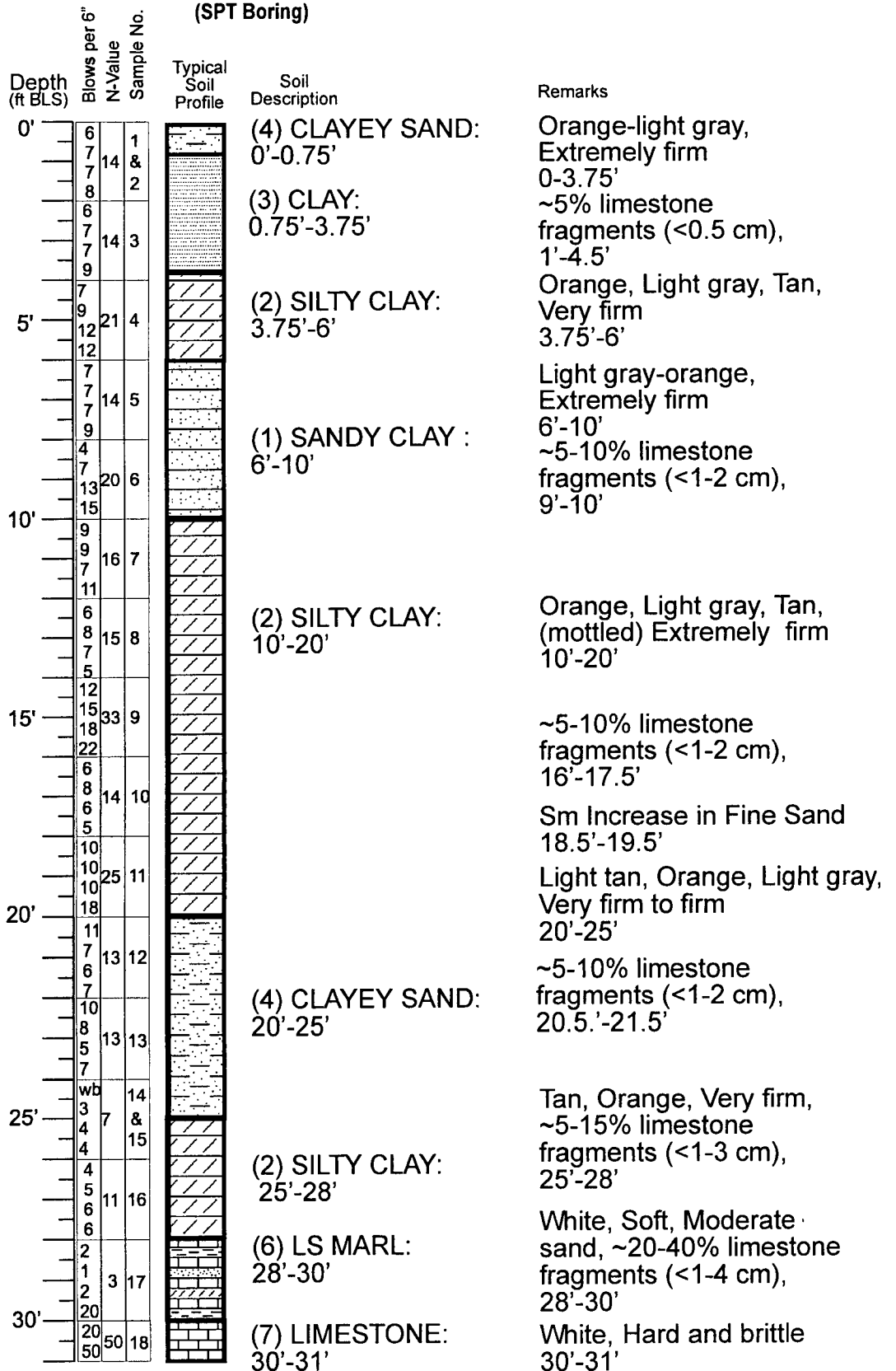
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4"-Mud Rotary
DEPTH: 31' BLS
DATE STARTED: 9-4-03
DATE ENDED: 9-4-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE



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DADE CITY, FLORIDA

FIGURE
19

B-34 (SPT Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

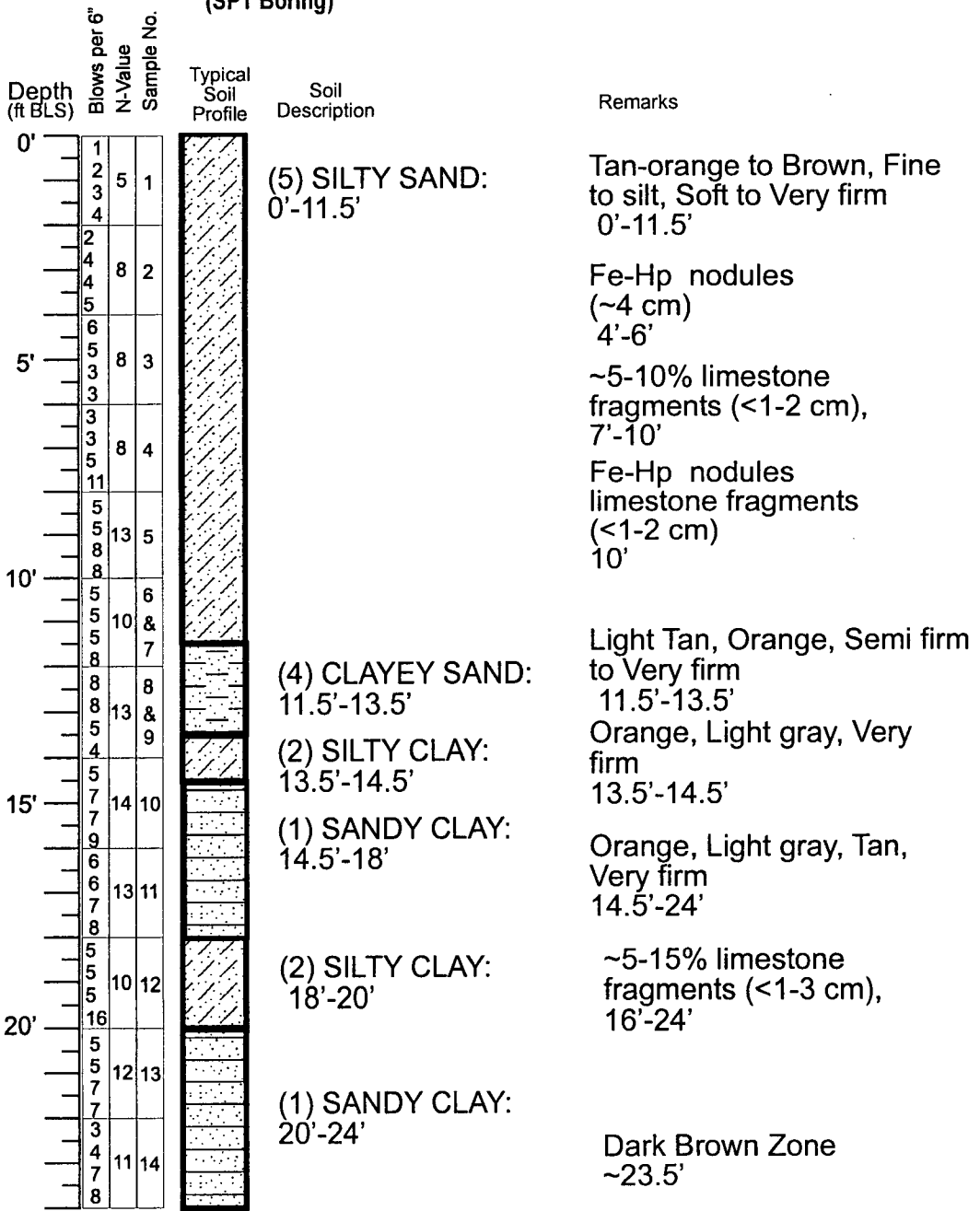
GR. ELEV: 75' NGVD
DIA-TYPE: 3 3/4" Mud Rotary
DEPTH: 24' BLS
DATE STARTED: 9-4-03
DATE ENDED: 9-4-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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**STRATIGRAPHIC COLUMN
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DADE CITY, FLORIDA**

**FIGURE
20**

SSA-1

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

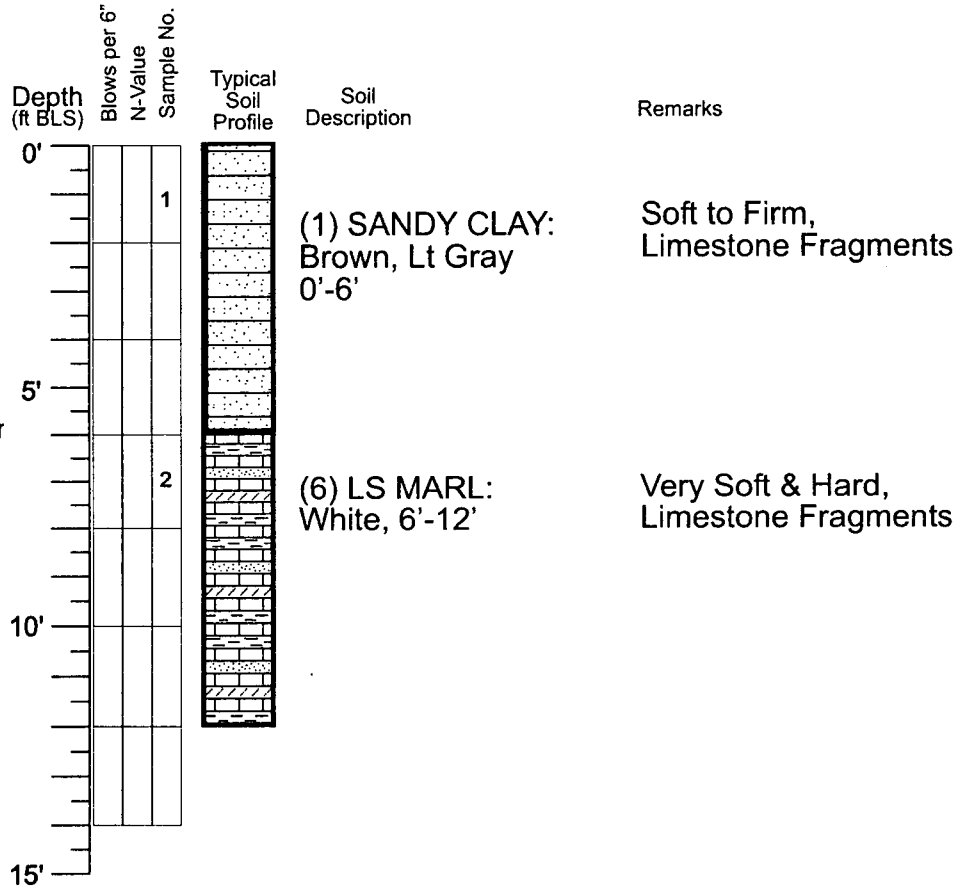
GR. ELEV: 83' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 12' BLS
DATE STARTED: 7-30-03
DATE ENDED: 7-30-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
1

SSA-2 (Solid-stem Auger Boring)

PROJECT

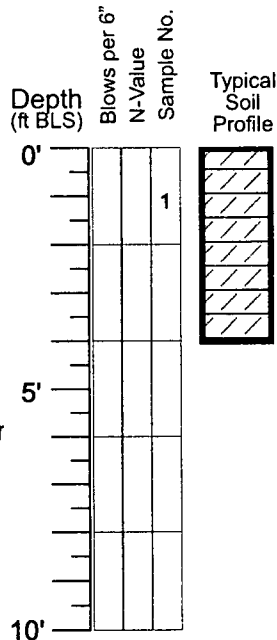
NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

GR. ELEV: 82.5' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 4' BLS
DATE STARTED: 7-30-03
DATE ENDED: 7-30-03

DRILLING

RIG TYPE: CME 45
CREW: EDS



Soil Description

(2) SILTY CLAY:
 Lt Gray, Lt Tan,
 semi-firm to firm,
 0'-4'

Remarks

Weathered LR cobbles & boulders (1-8 in), stopped boring.

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE

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 DADE CITY, FLORIDA**

**FIGURE
 2**

SSA-3 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

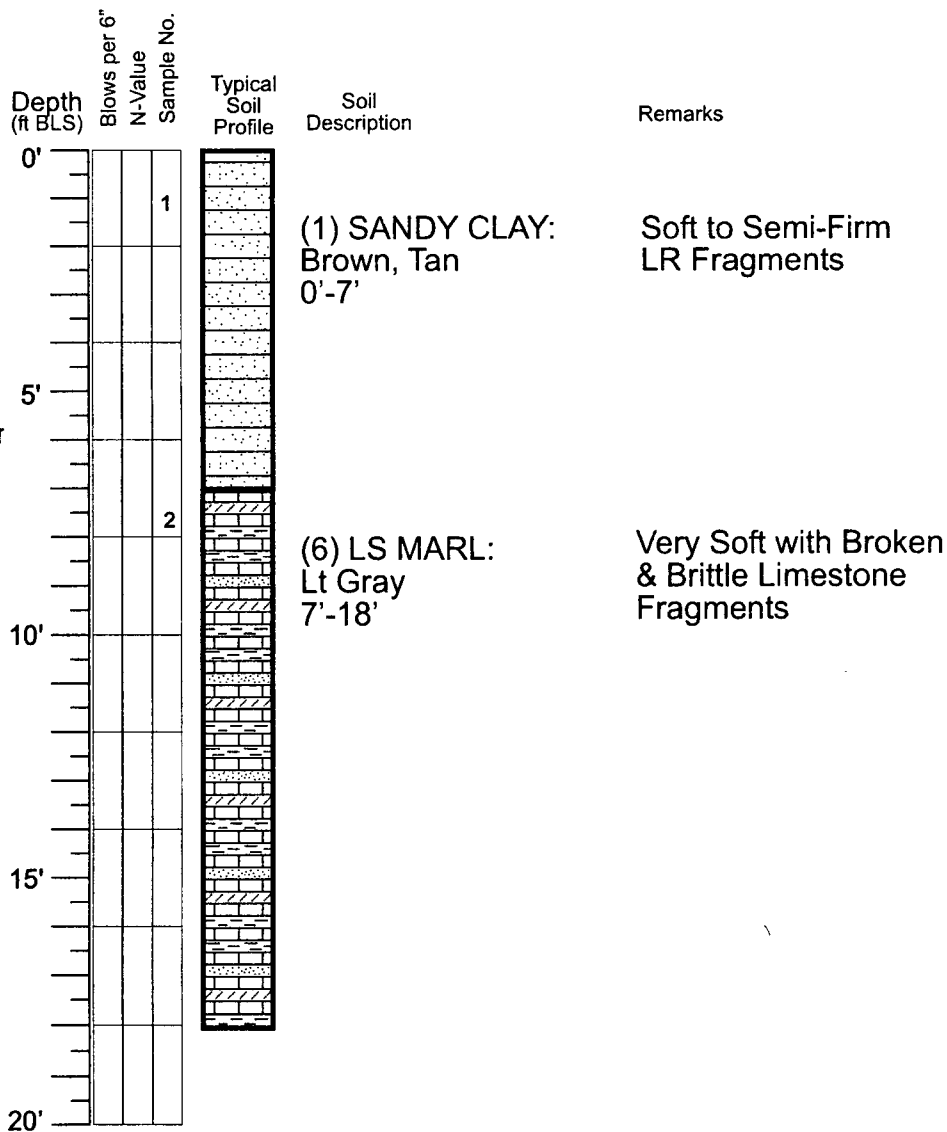
GR. ELEV: 82.5' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 18' BLS
DATE STARTED: 7-30-03
DATE ENDED: 7-30-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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**STRATIGRAPHIC COLUMN
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 DADE CITY, FLORIDA**

**FIGURE
 3**

SSA-4 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

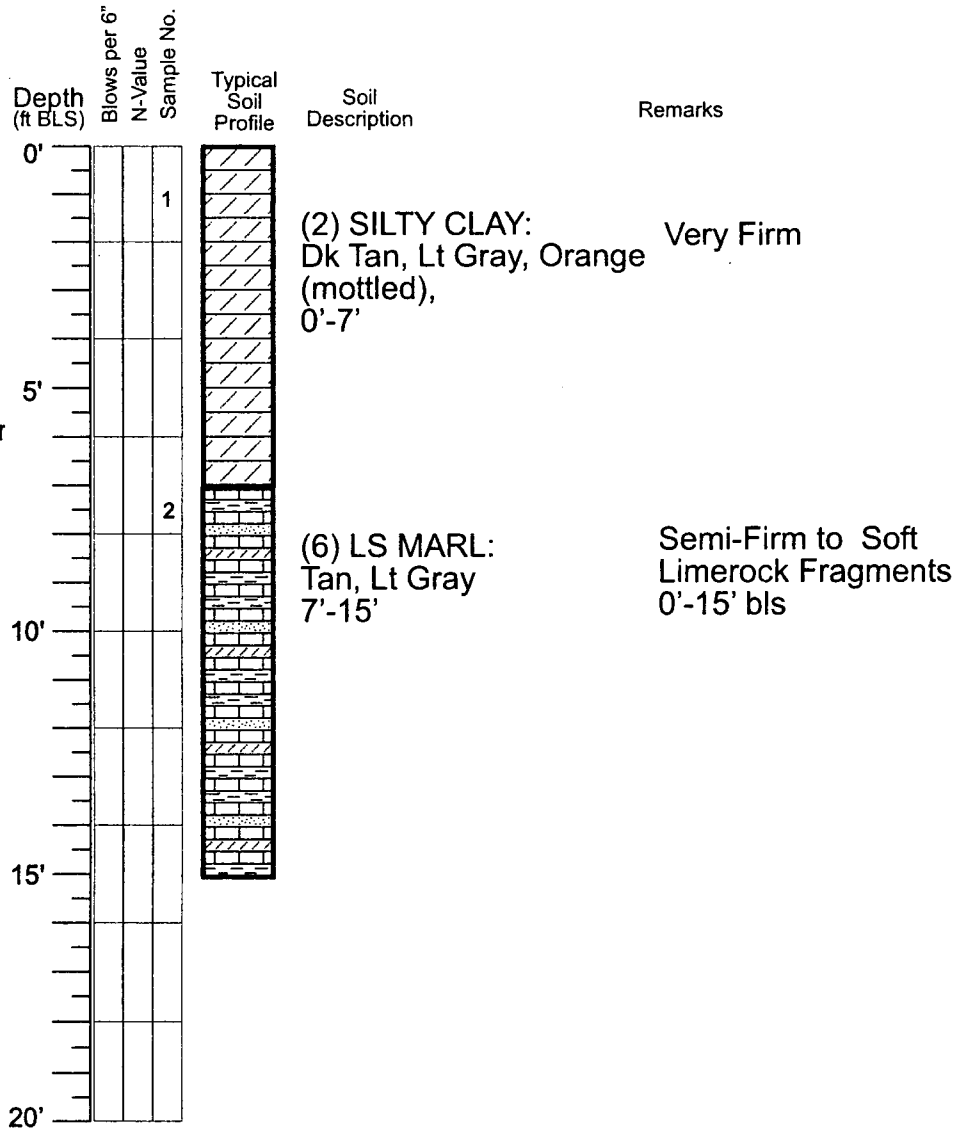
GR. ELEV: 82.5' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 15' BLS
DATE STARTED: 7-30-03
DATE ENDED: 7-30-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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**STRATIGRAPHIC COLUMN
 ENTERPRISE RECYCLING
 & DISPOSAL FACILITY
 DADE CITY, FLORIDA**

**FIGURE
4**

SSA-5 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

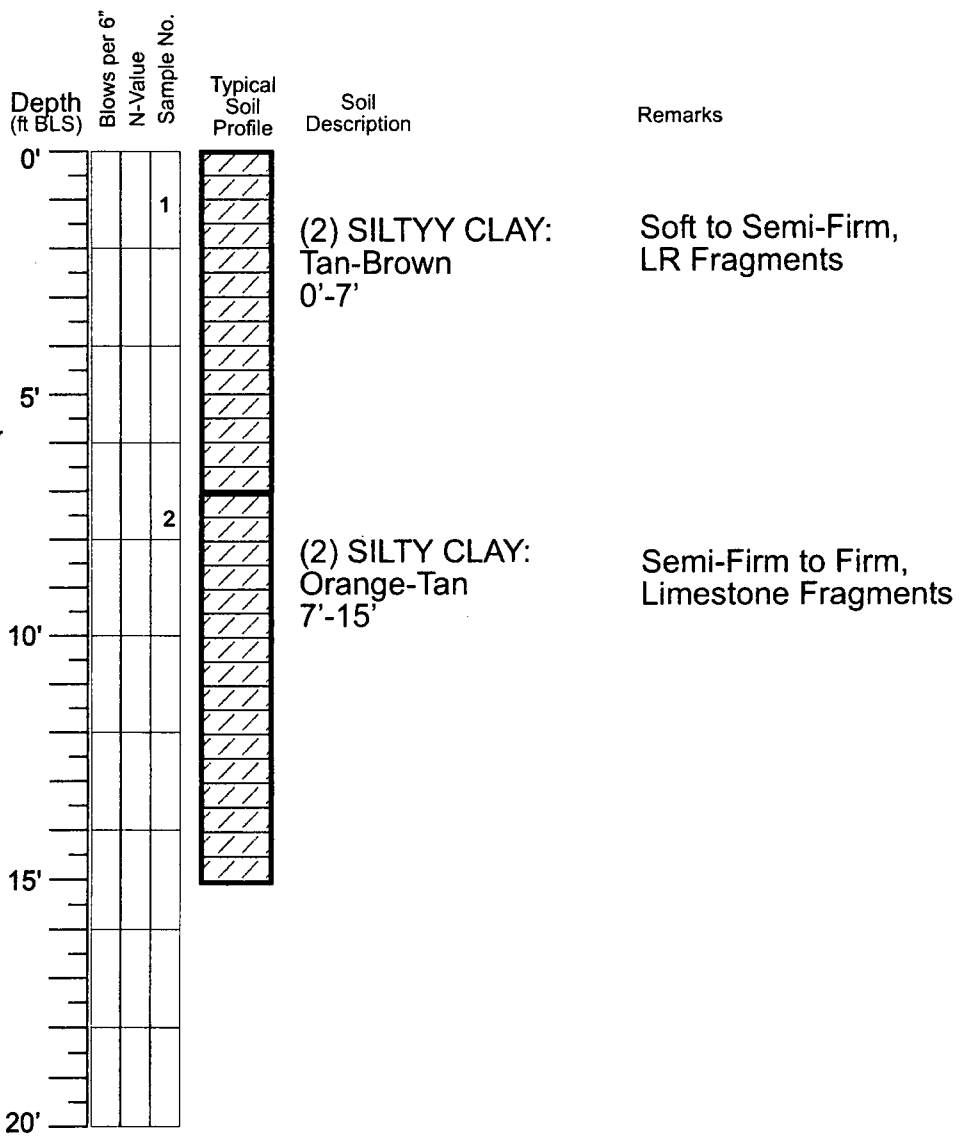
GR. ELEV: 83' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 15' BLS
DATE STARTED: 7-30-03
DATE ENDED: 7-30-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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SSA-6 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

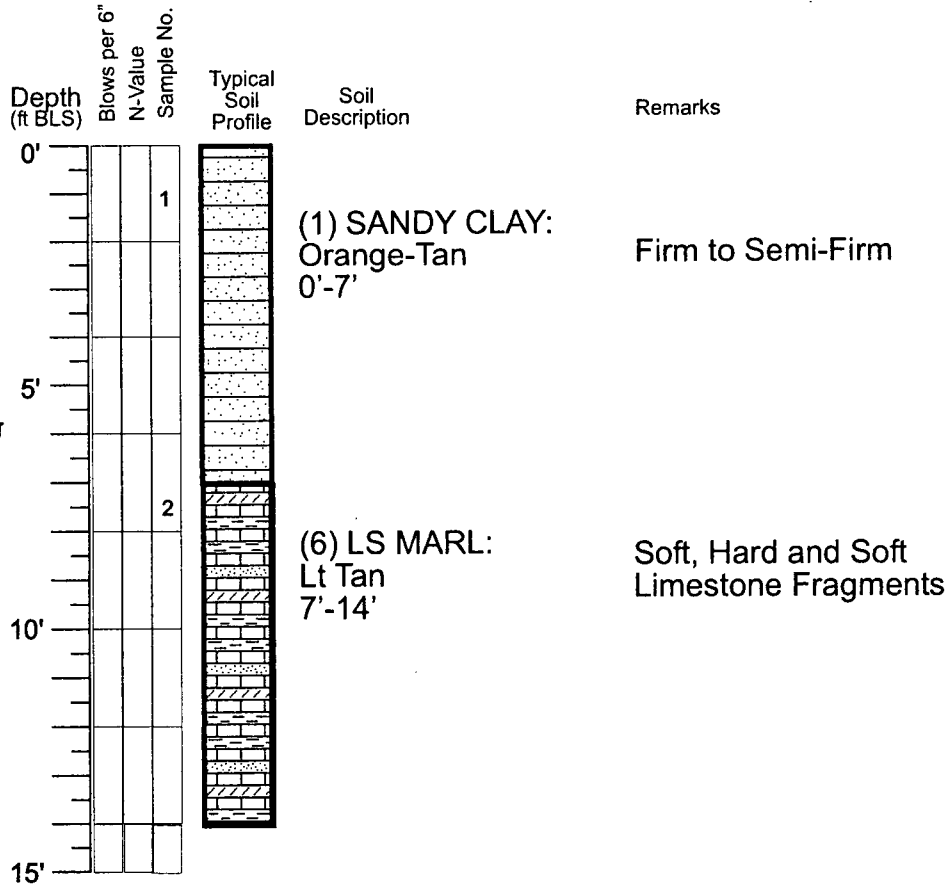
GR. ELEV: 82.5' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 7-30-03
DATE ENDED: 7-30-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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 DADE CITY, FLORIDA**

**FIGURE
6**

SSA-7

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

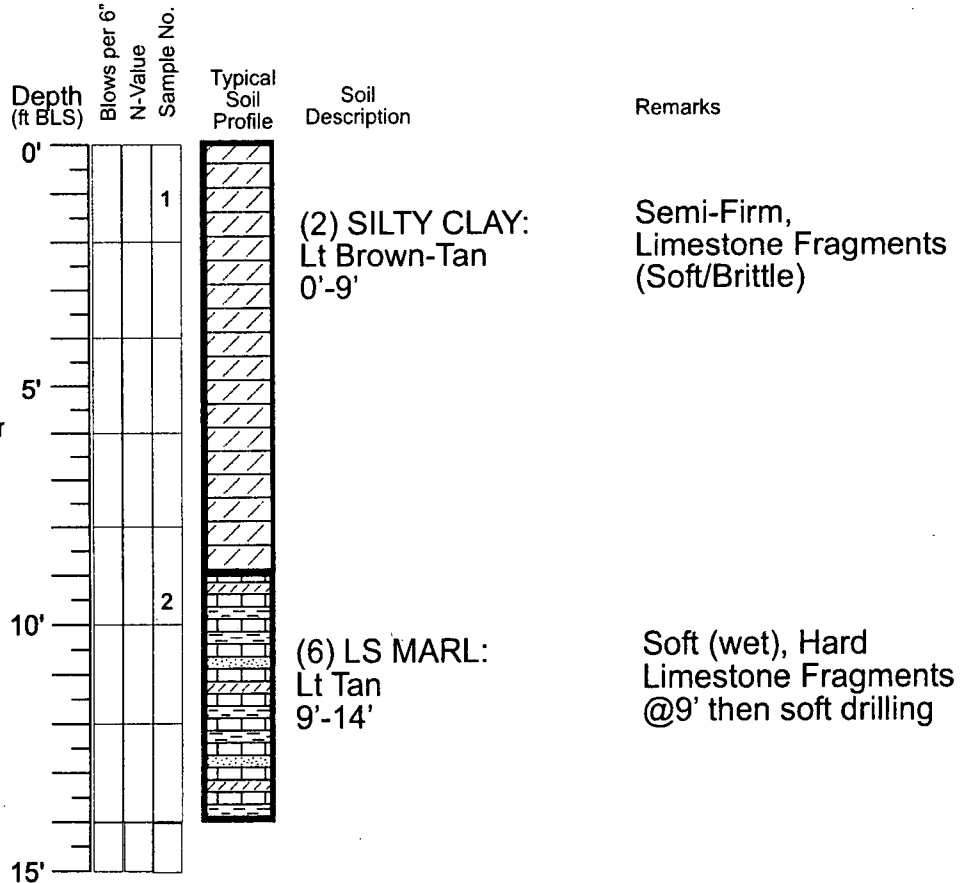
GR. ELEV: 83' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
7

SSA-8 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

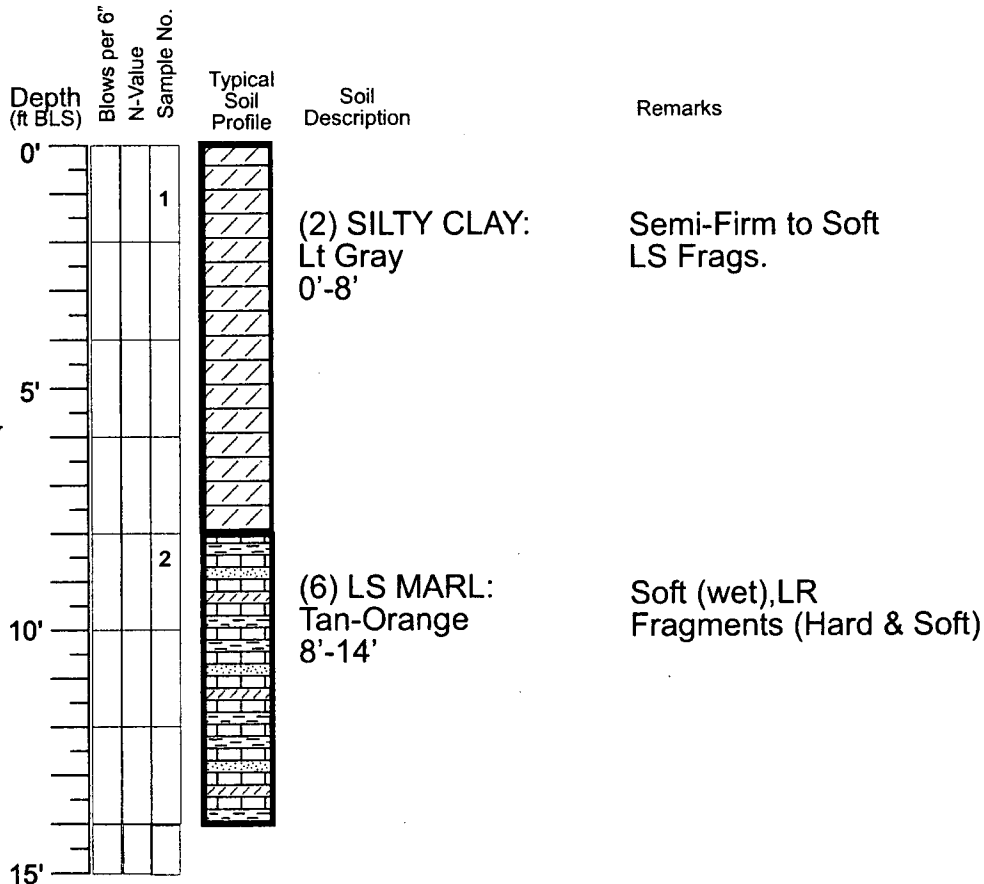
GR. ELEV: 83' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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 DADE CITY, FLORIDA**

**FIGURE
8**

SSA-9 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

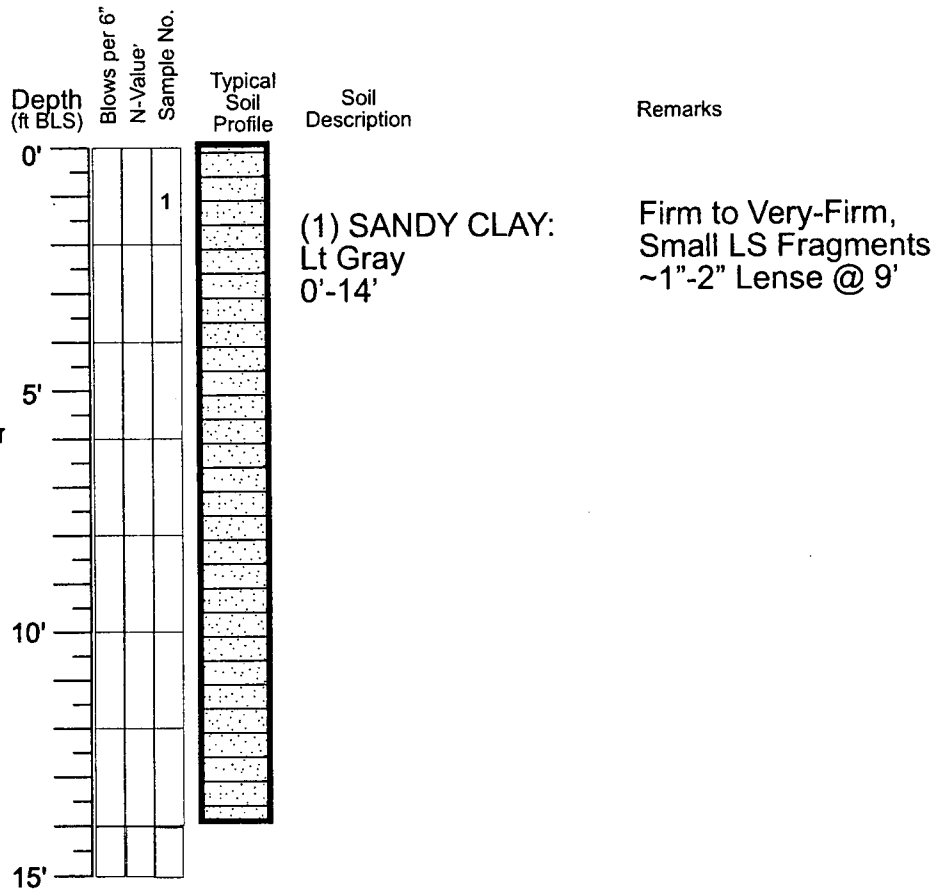
GR. ELEV: 83' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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 DADE CITY, FLORIDA**

**FIGURE
 9**

SSA-10

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

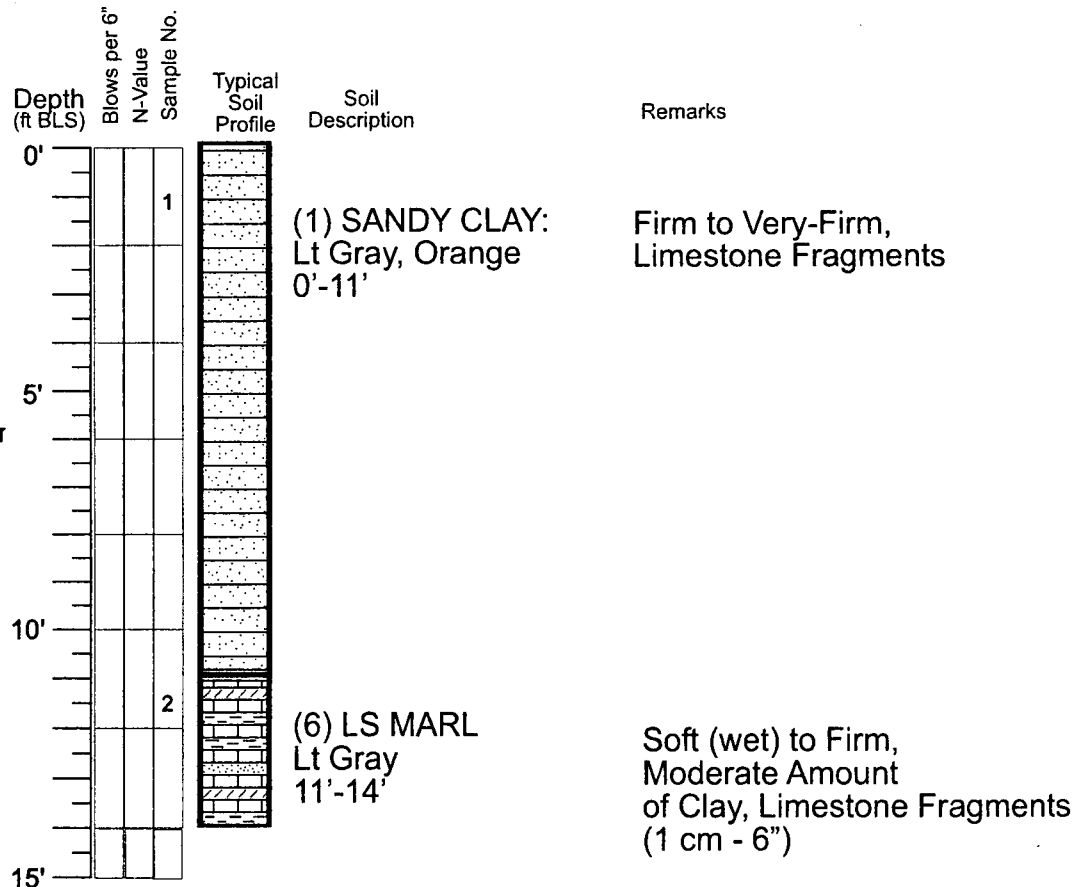
GR. ELEV: 82.5' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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FIGURE
10

SSA-11

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

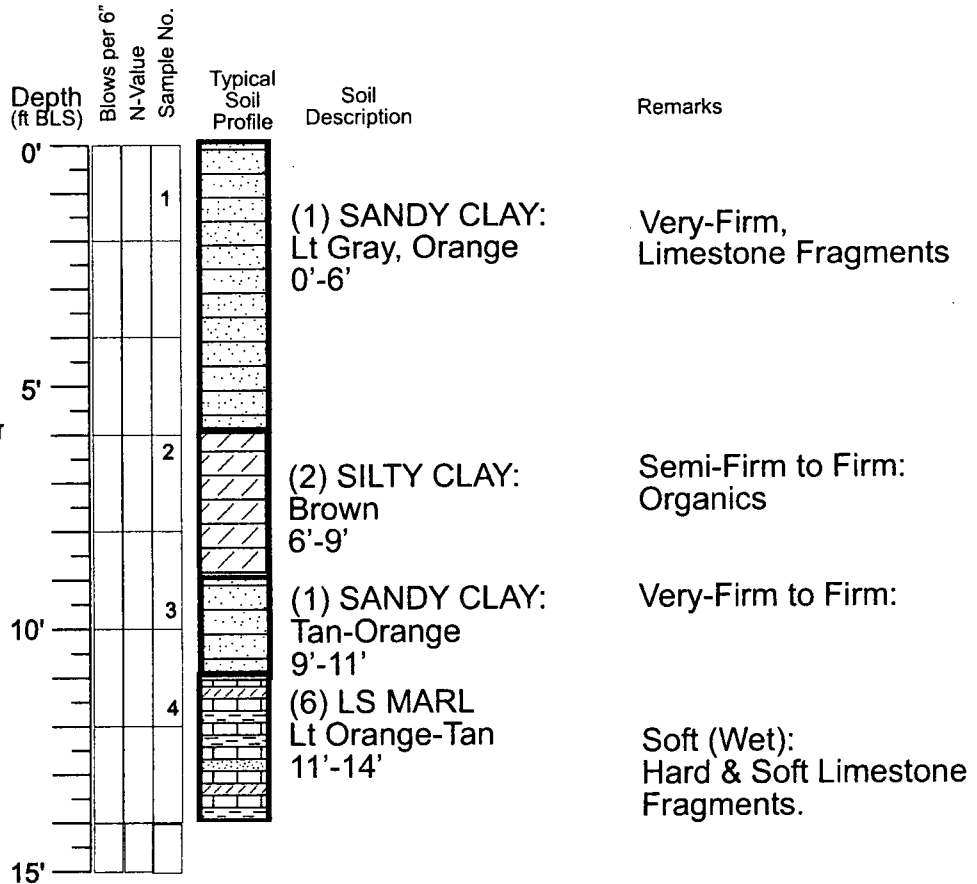
GR. ELEV: 82' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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FIGURE
11

SSA-12 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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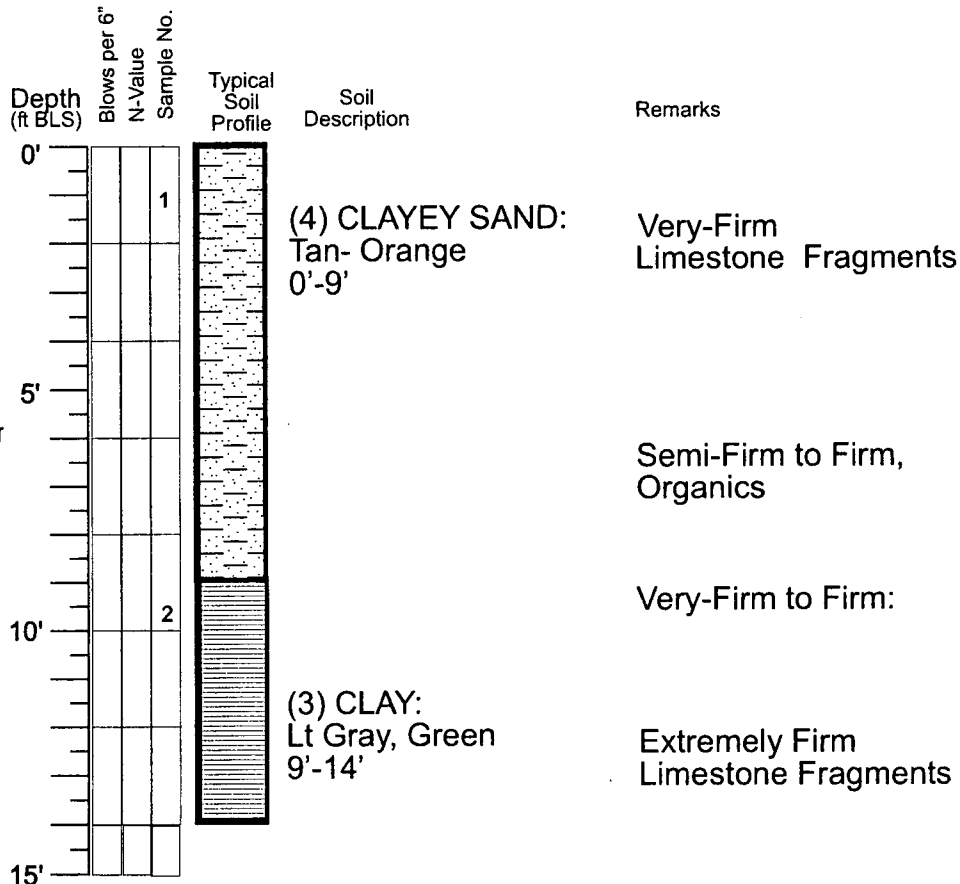
GR. ELEV: 82' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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 DADE CITY, FLORIDA**

**FIGURE
 12**

SSA-13

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

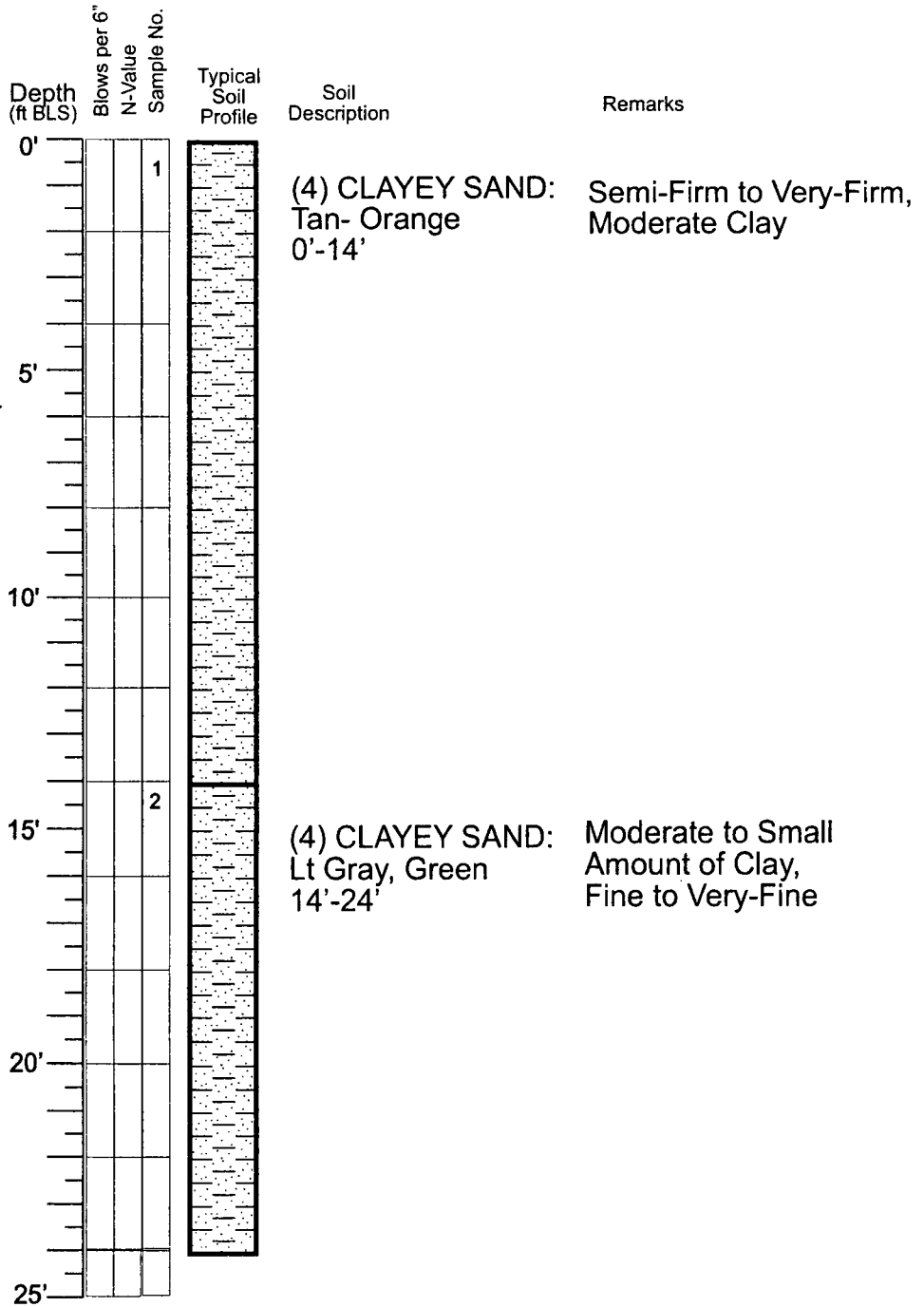
GR. ELEV: 95' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 24' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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FIGURE
13

SSA-14

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

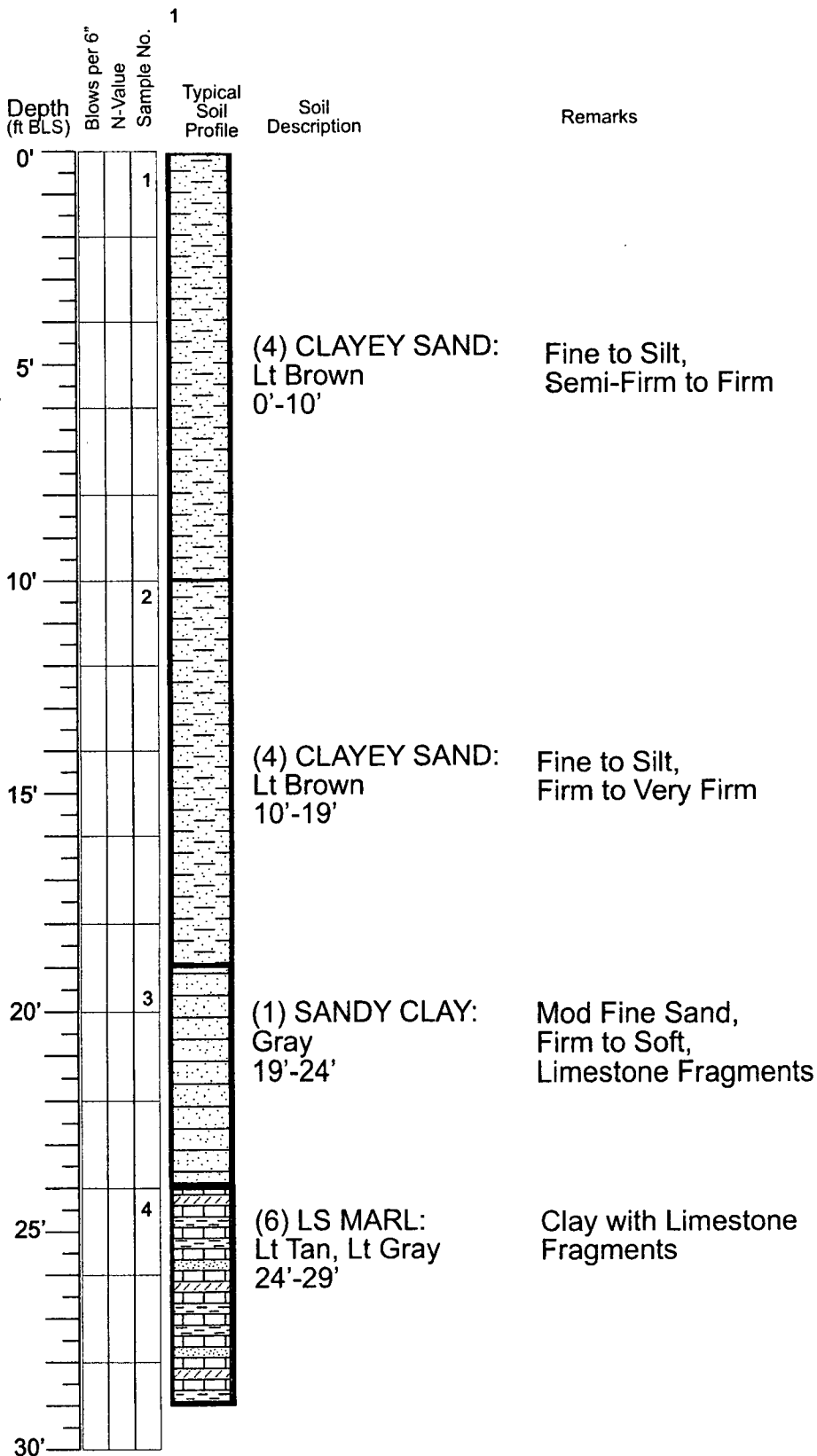
GR. ELEV: 95' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 29' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
14

SSA-15

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

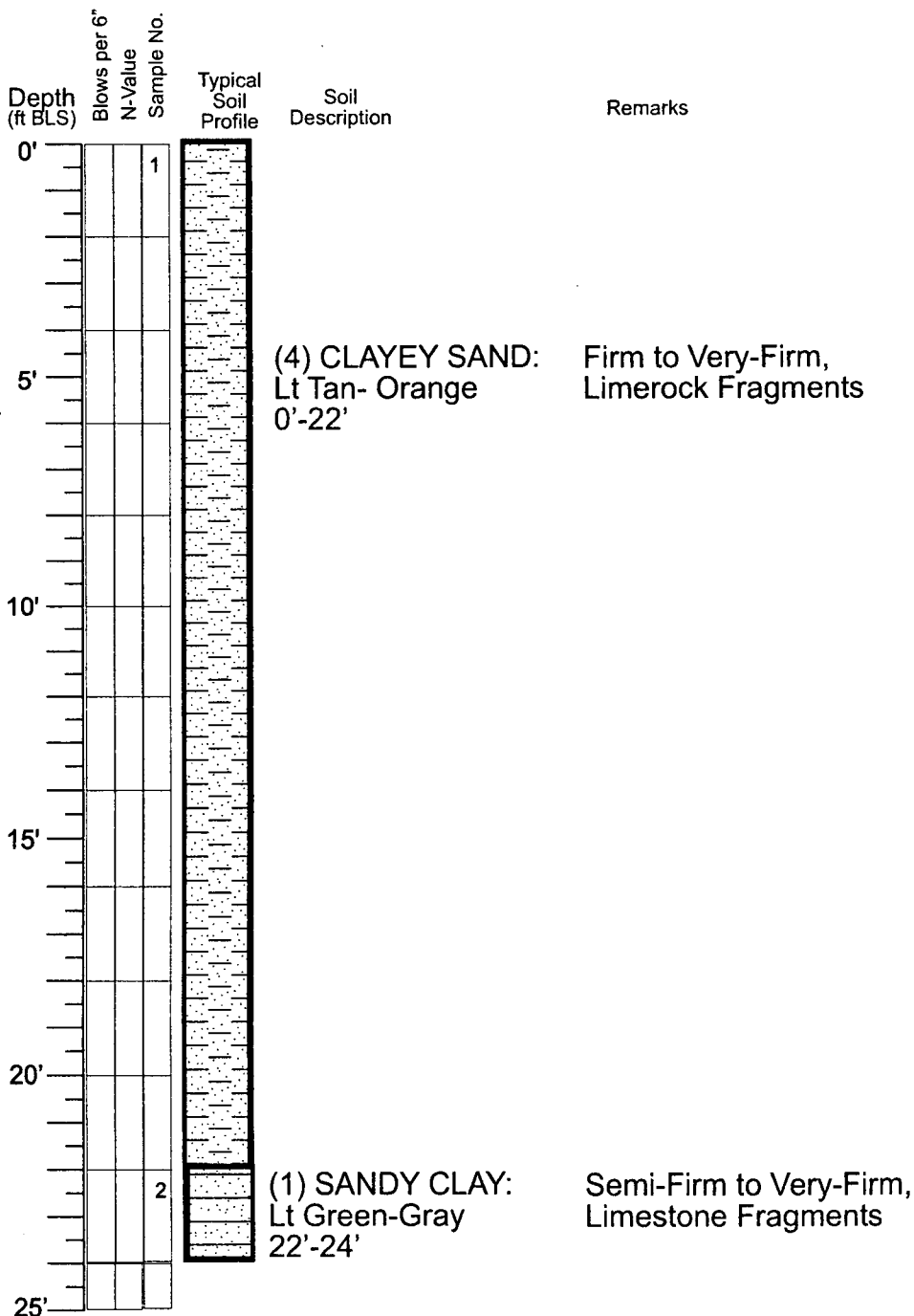
GR. ELEV: 95' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 24' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
15

SSA-16

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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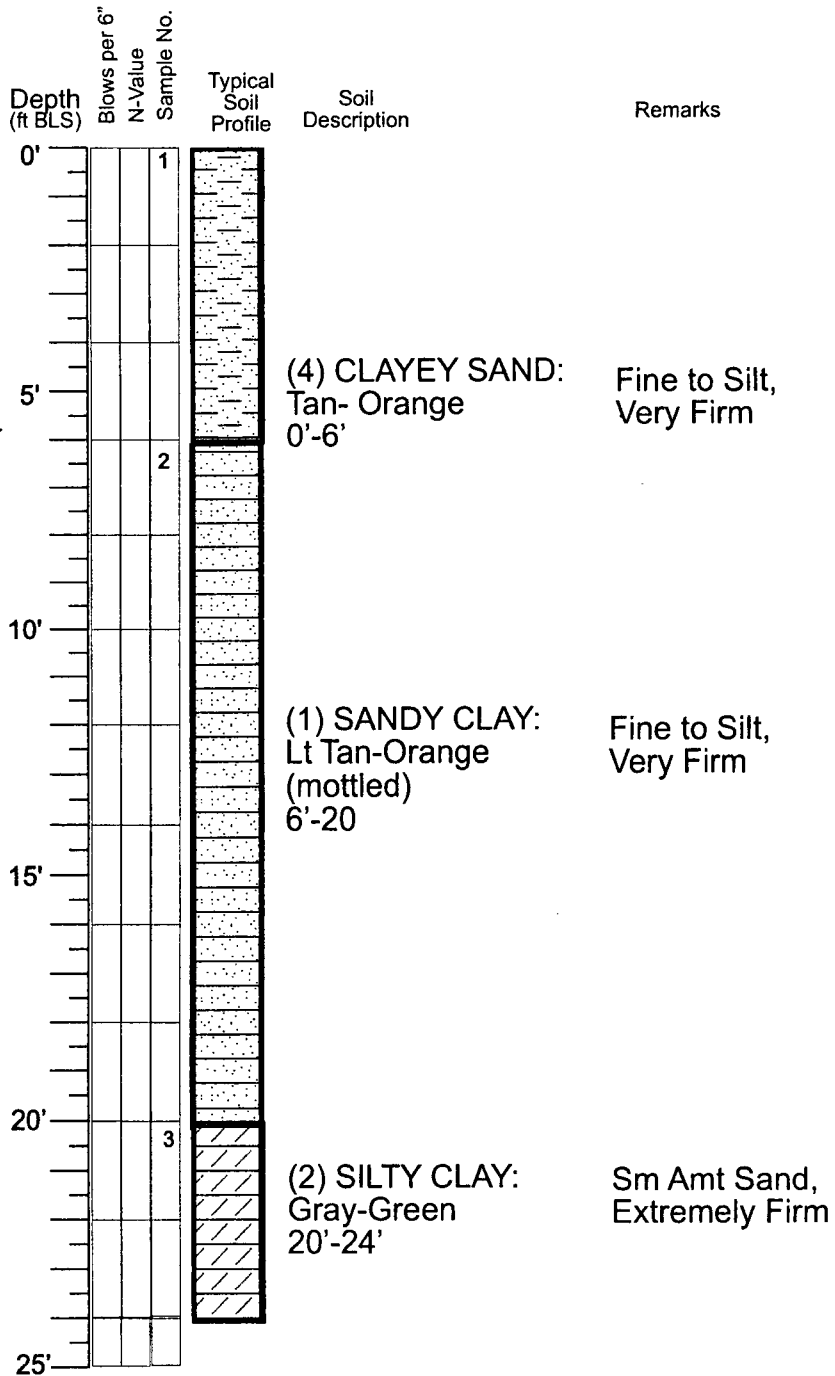
GR. ELEV: 96' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 24' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
16

SSA-17

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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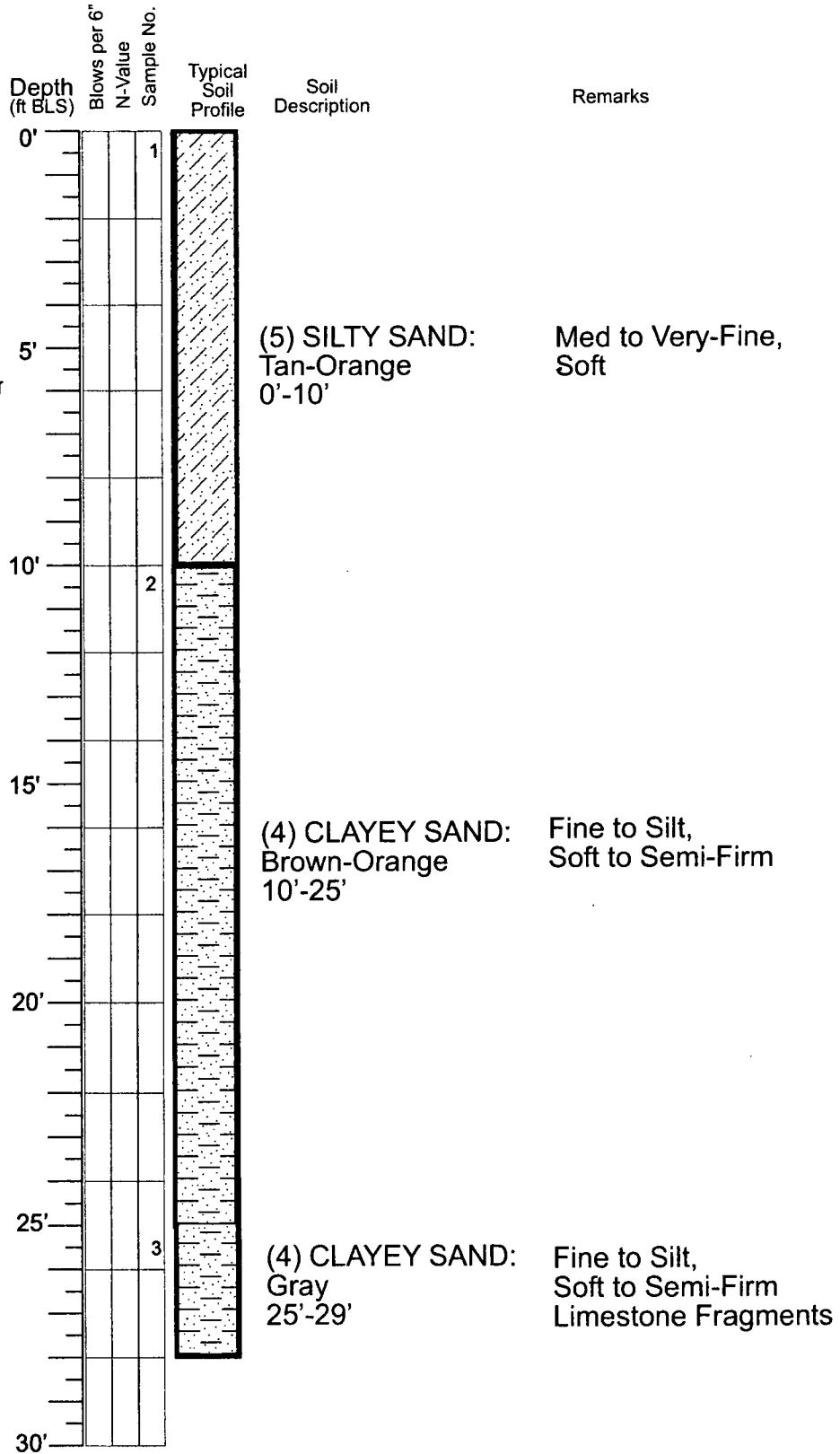
GR. ELEV: 101' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 29' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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FIGURE
17

SSA-18

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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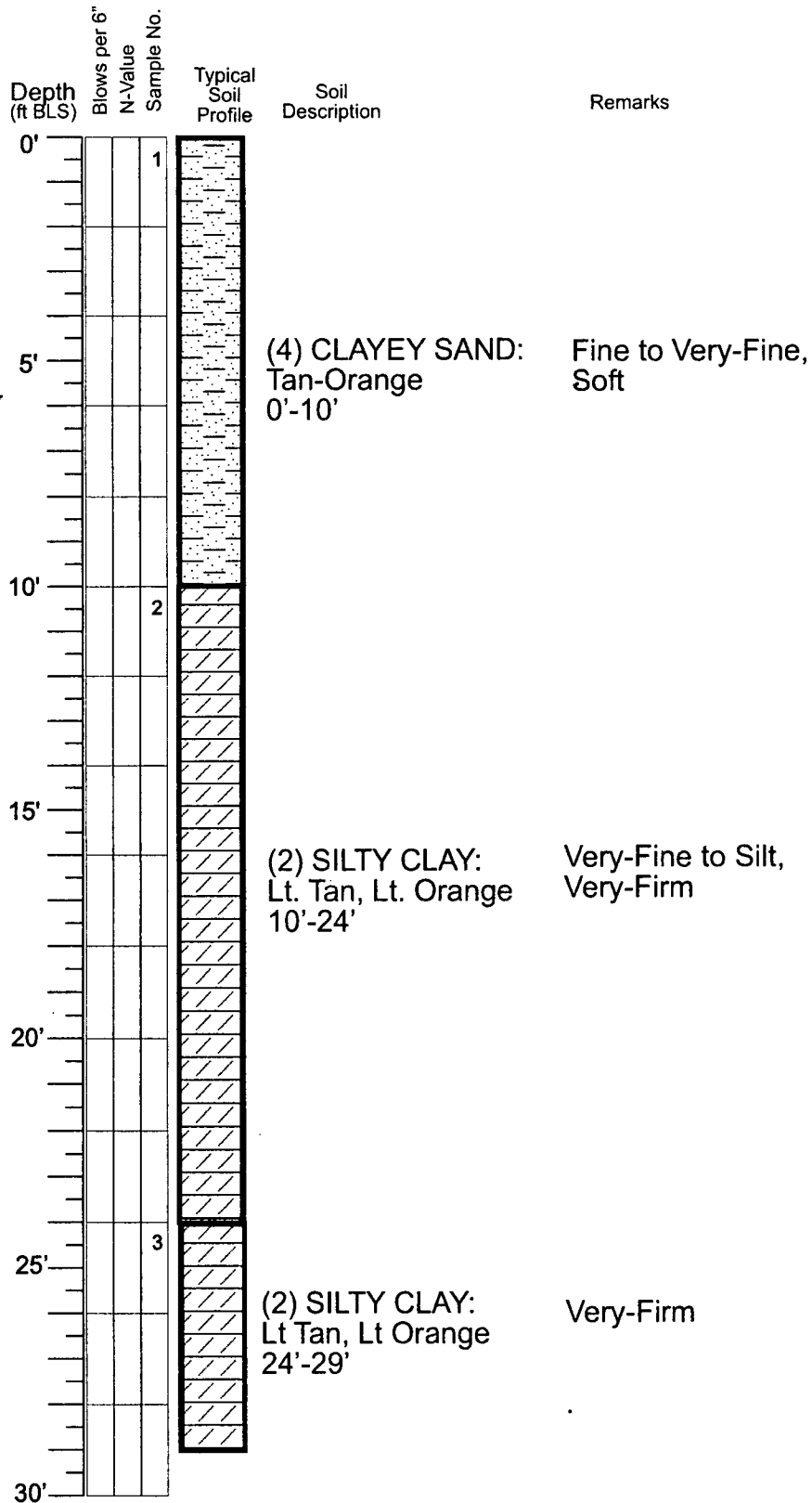
GR. ELEV: 100' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 29' BLS
DATE STARTED: 7-31-03
DATE ENDED: 7-31-03

DRILLING

RIG TYPE: CME 45
CREW: EDS

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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FIGURE
18

SSA-19 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

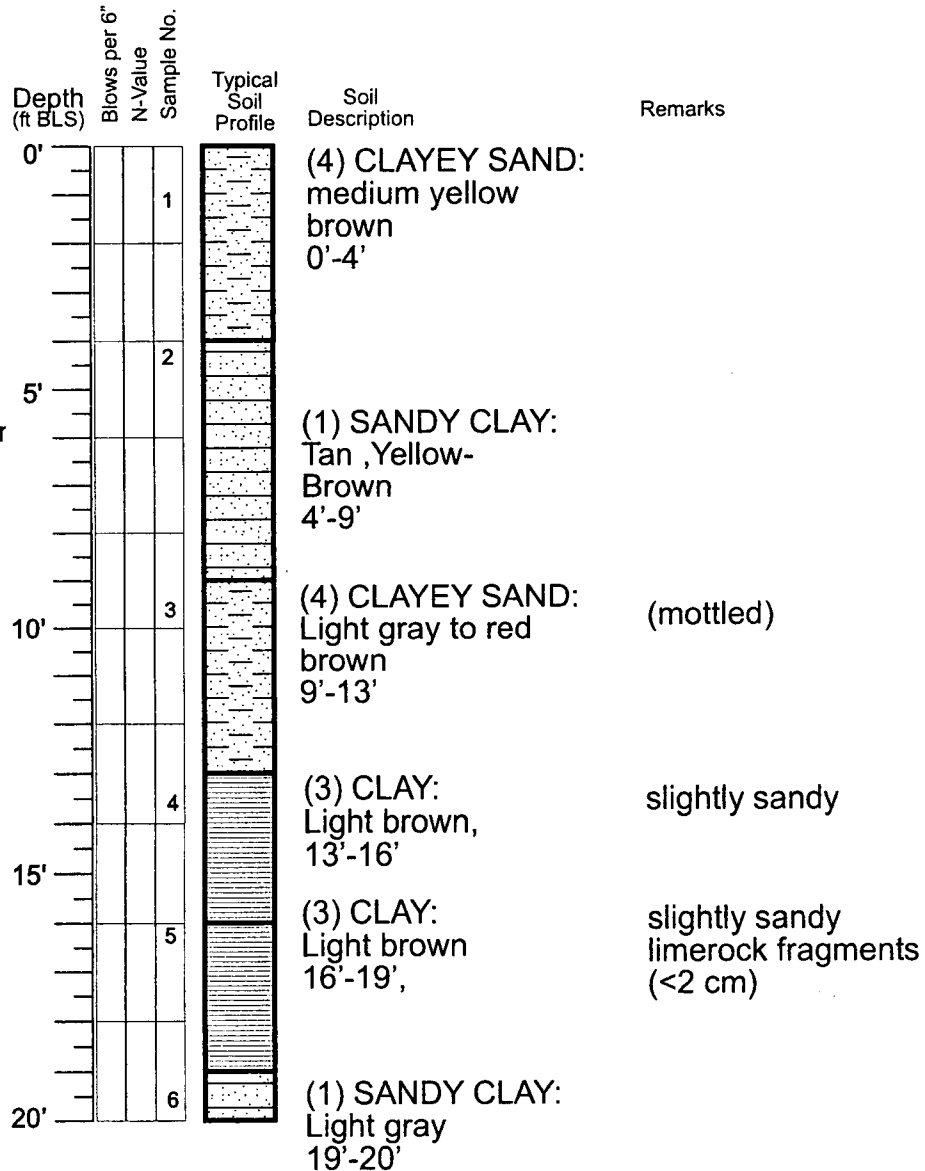
GR. ELEV: 83' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 8-23-03
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

(1) SANDY CLAY	
(2) SILTY CLAY	
(3) CLAY	
(4) CLAYEY SAND	
(5) SILTY SAND	
(6) LS MARL	
(7) LIMESTONE	



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**FIGURE
 19**

SSA-20 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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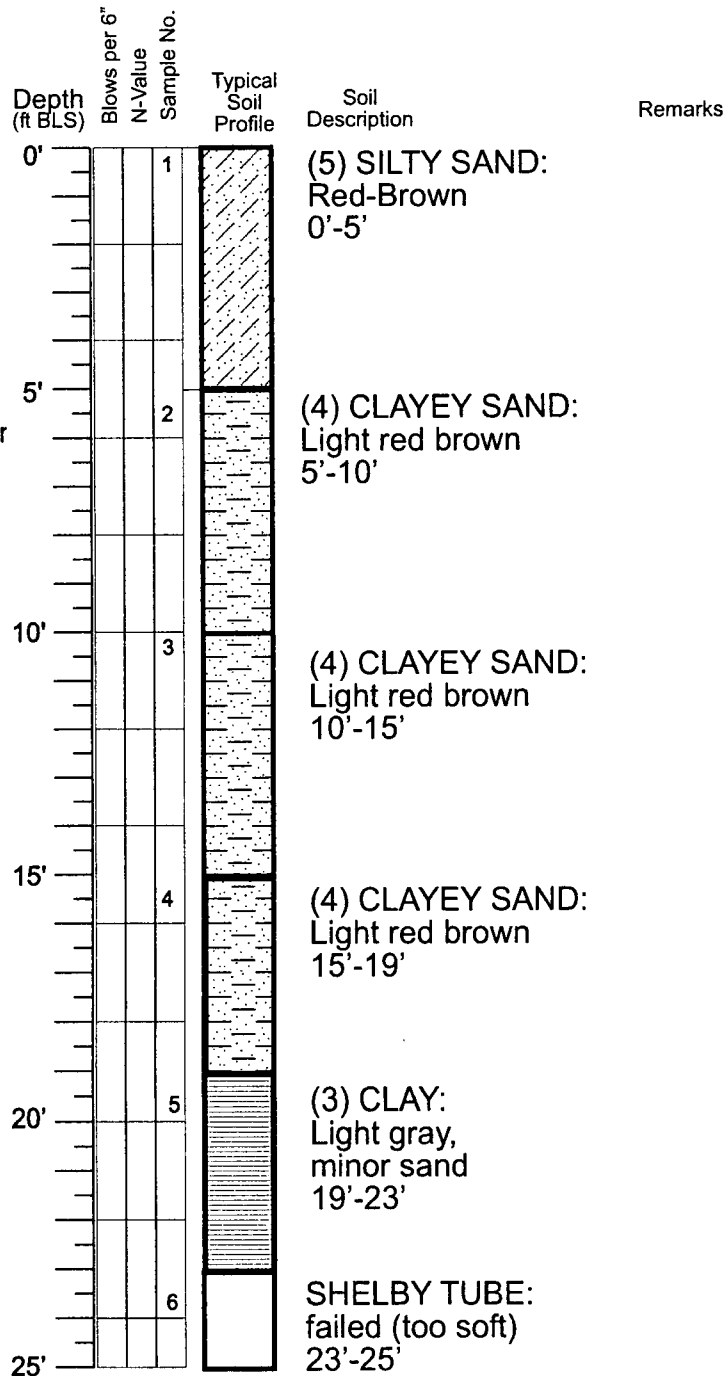
GR. ELEV: 83' NGVD
DIA-TYPE: 3" Solid Stem Auger
DEPTH: 25' BLS
DATE STARTED: 8-23-03
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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 DADE CITY, FLORIDA**

**FIGURE
 20**

SSA-21

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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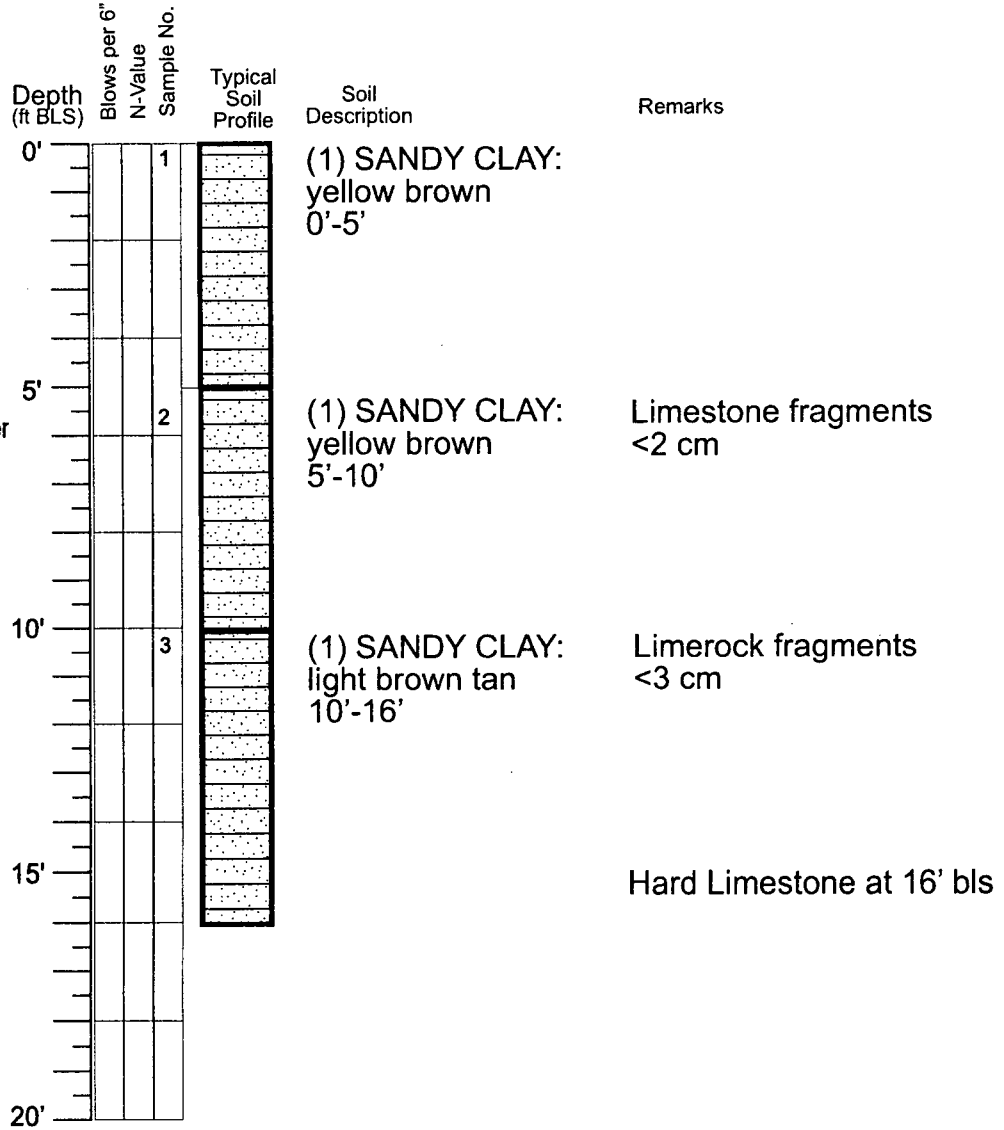
GR. ELEV: 82' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 16' BLS
DATE STARTED: 8-23-03
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
21

SSA-22

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

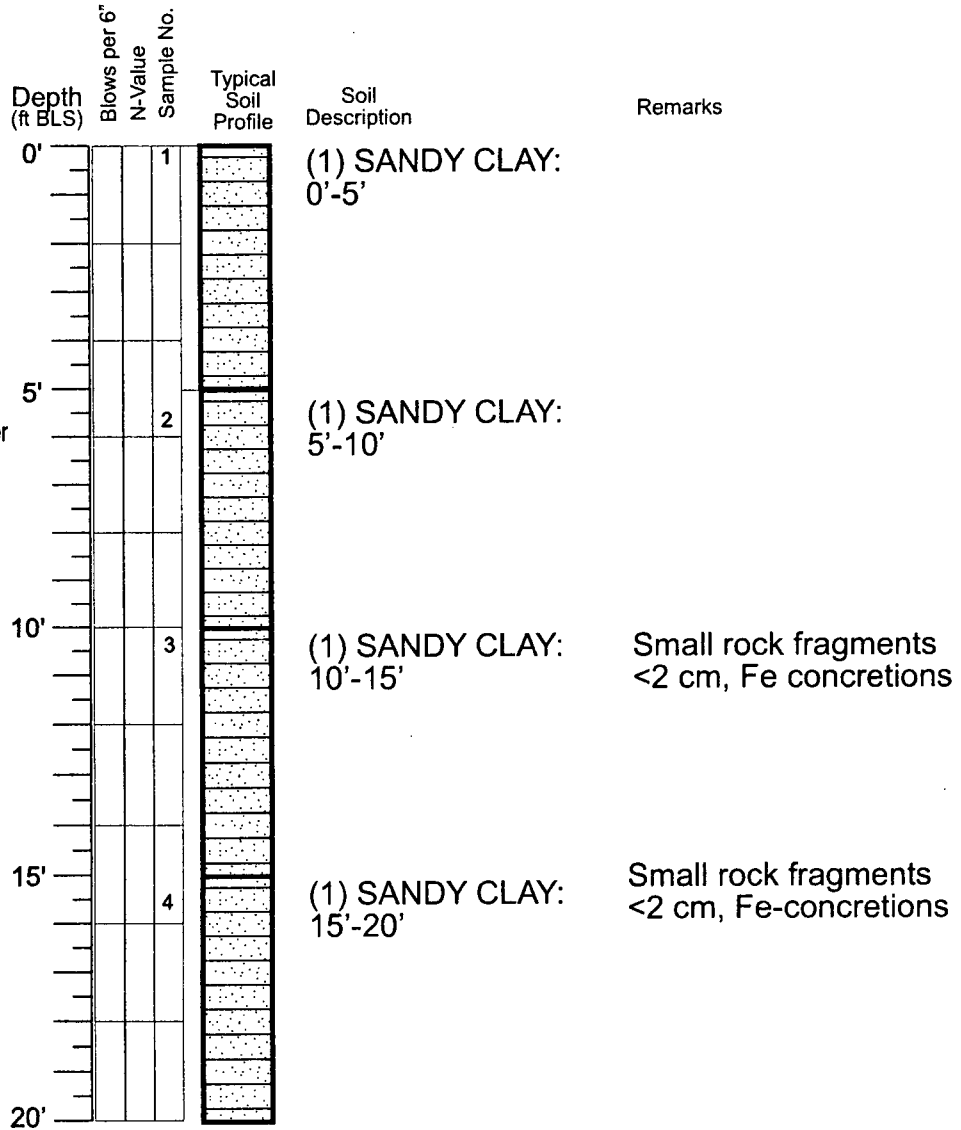
GR. ELEV: 81' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 8-23-03
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
22

SSA-23

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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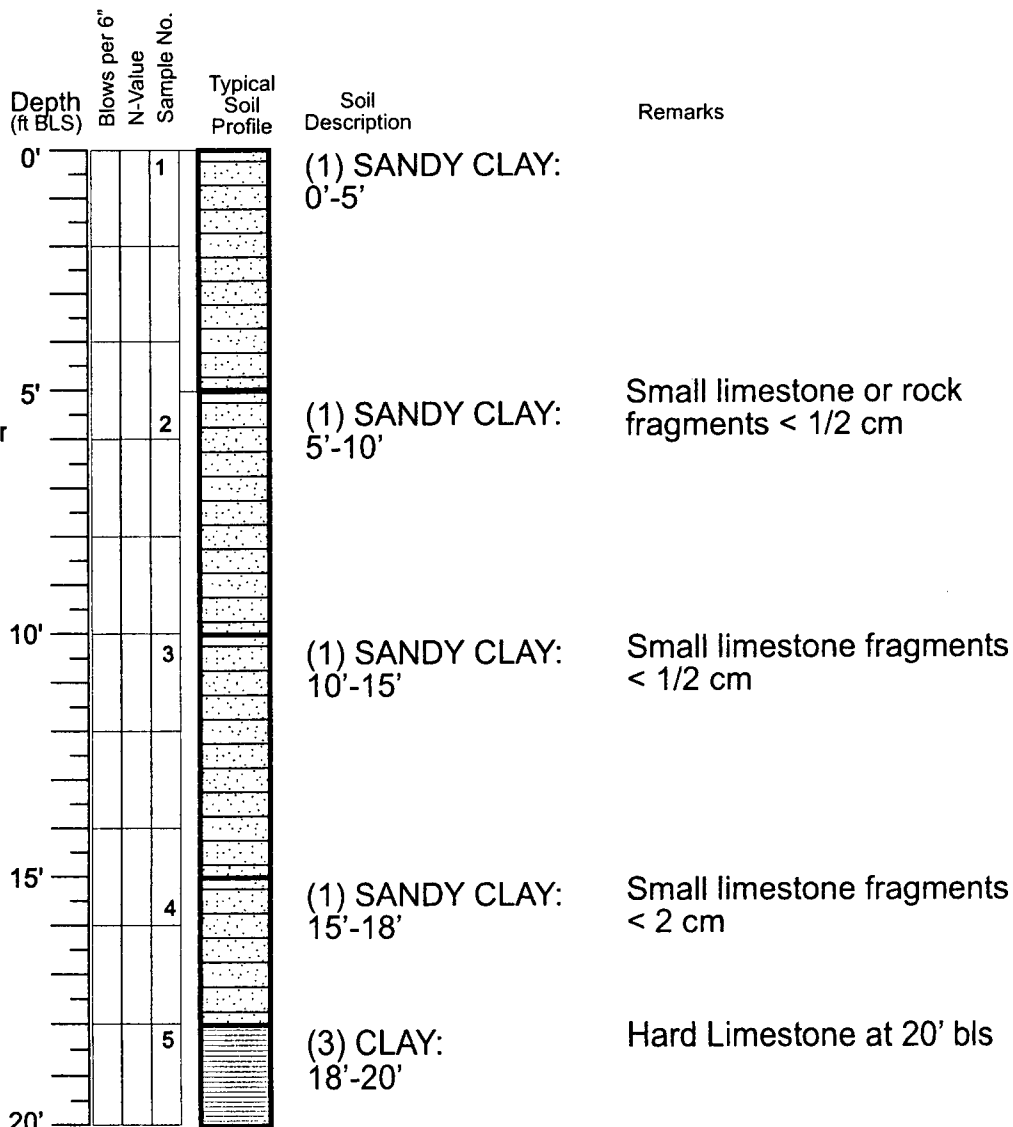
GR. ELEV: 80' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 8-23-03
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
23

SSA-24

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

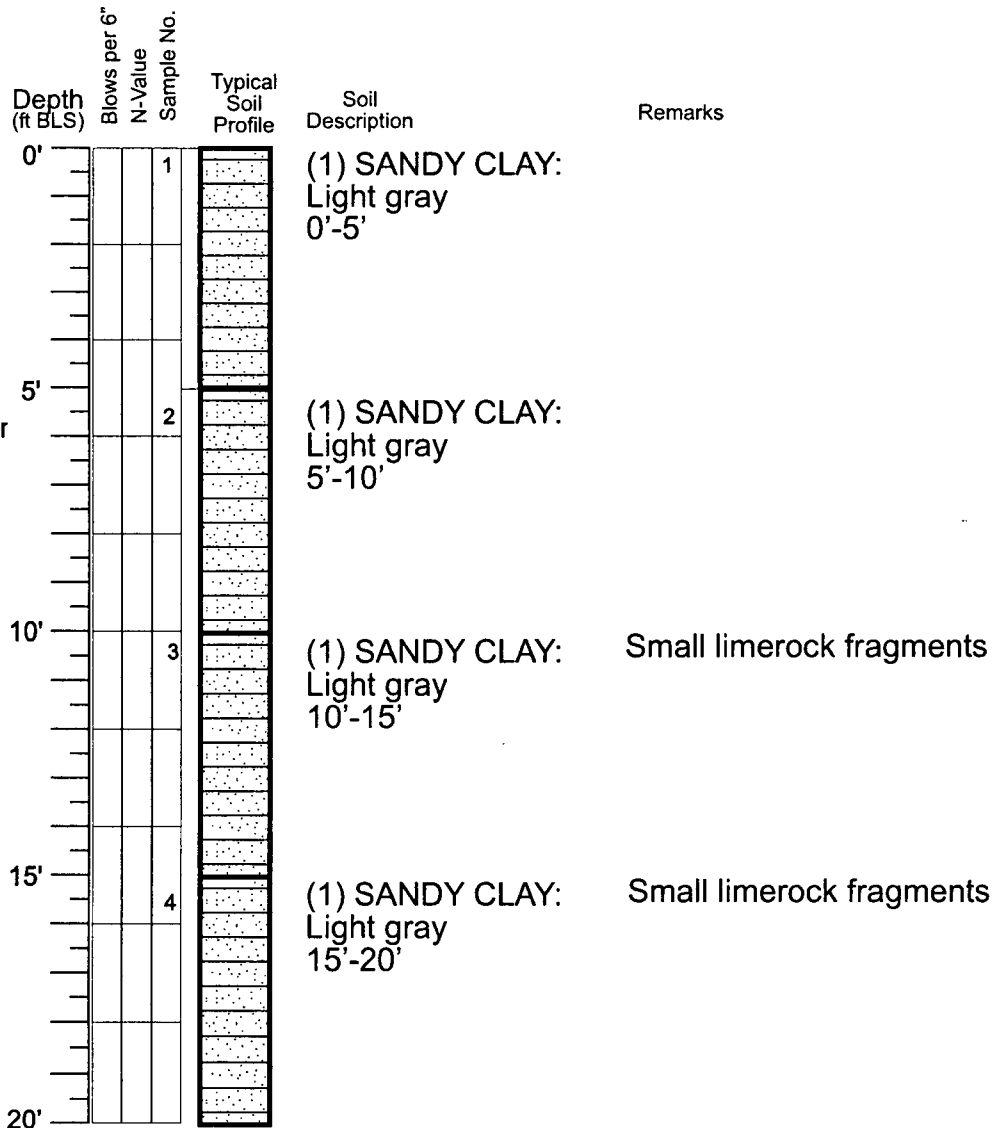
GR. ELEV: 80' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 8-23-03
DATE ENDED: 8-23-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
24

SSA-25

(Solid-stem Auger Boring)

PROJECT

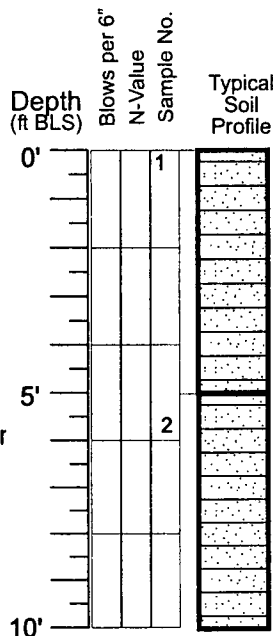
NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

GR. ELEV: 75' NGVD
DIA-TYPE: 3" Solid Stem Auger
DEPTH: 10' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill



Soil Description	Remarks
(1) SANDY CLAY: Light gray 0'-5'	Moderate sand, Extremely Firm
(1) SANDY CLAY: Light gray-Light green 5'-10'	Moderate sand, Extremely Firm

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE

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FIGURE
25

SSA-26

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

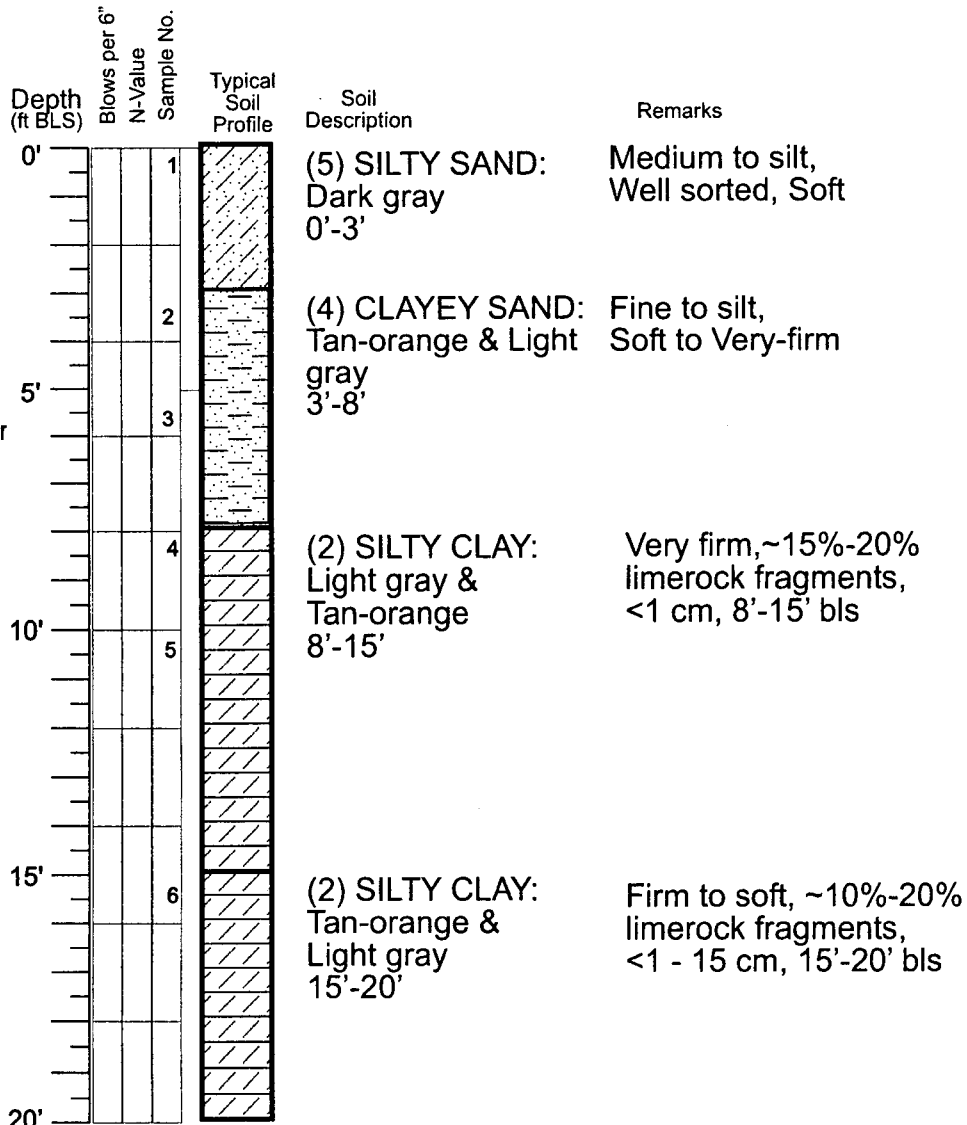
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



N:\HYDRO\LARKIN\Boring logs\SSA-26.CDR



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
26

SSA-27

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

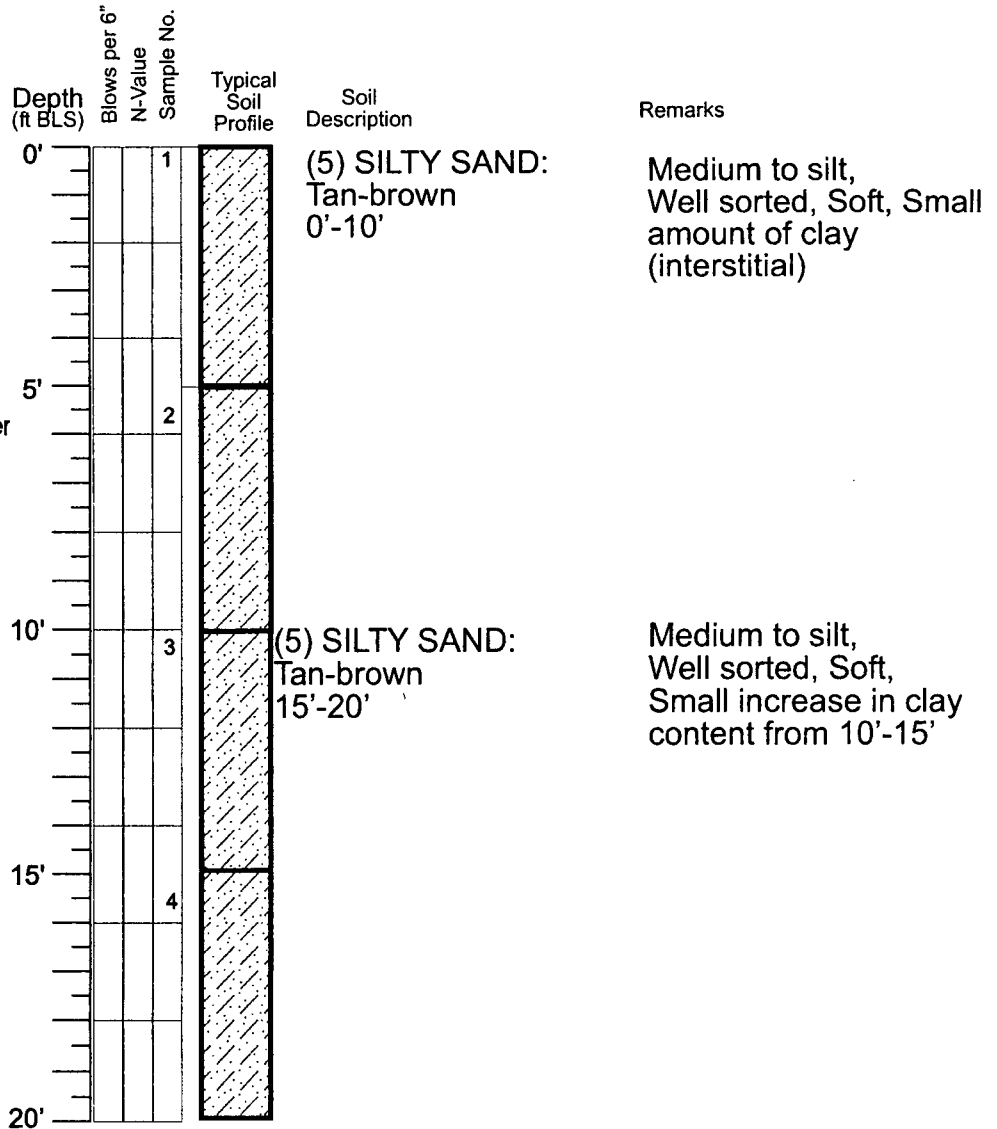
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
27

SSA-28

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

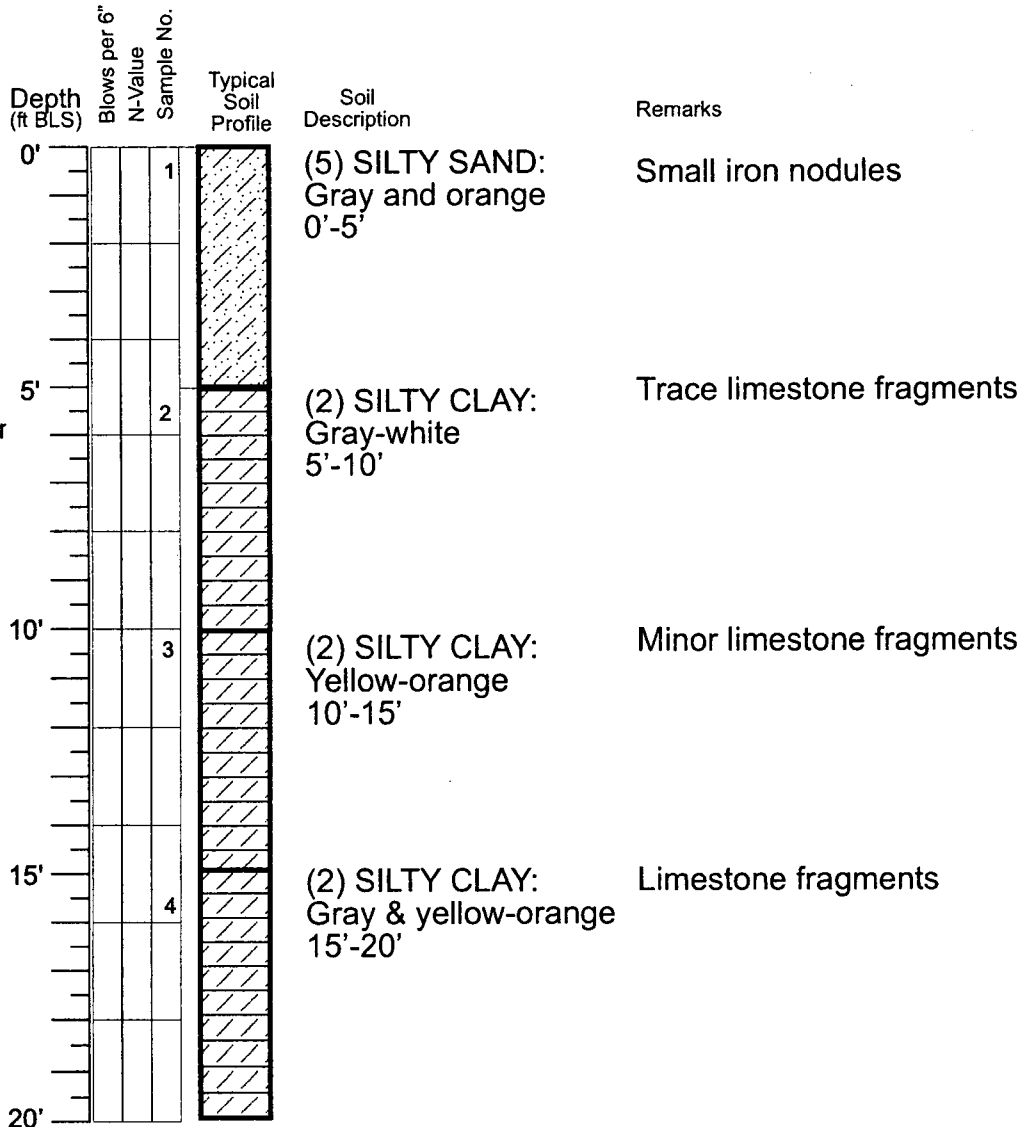
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
28

SSA-29 (Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

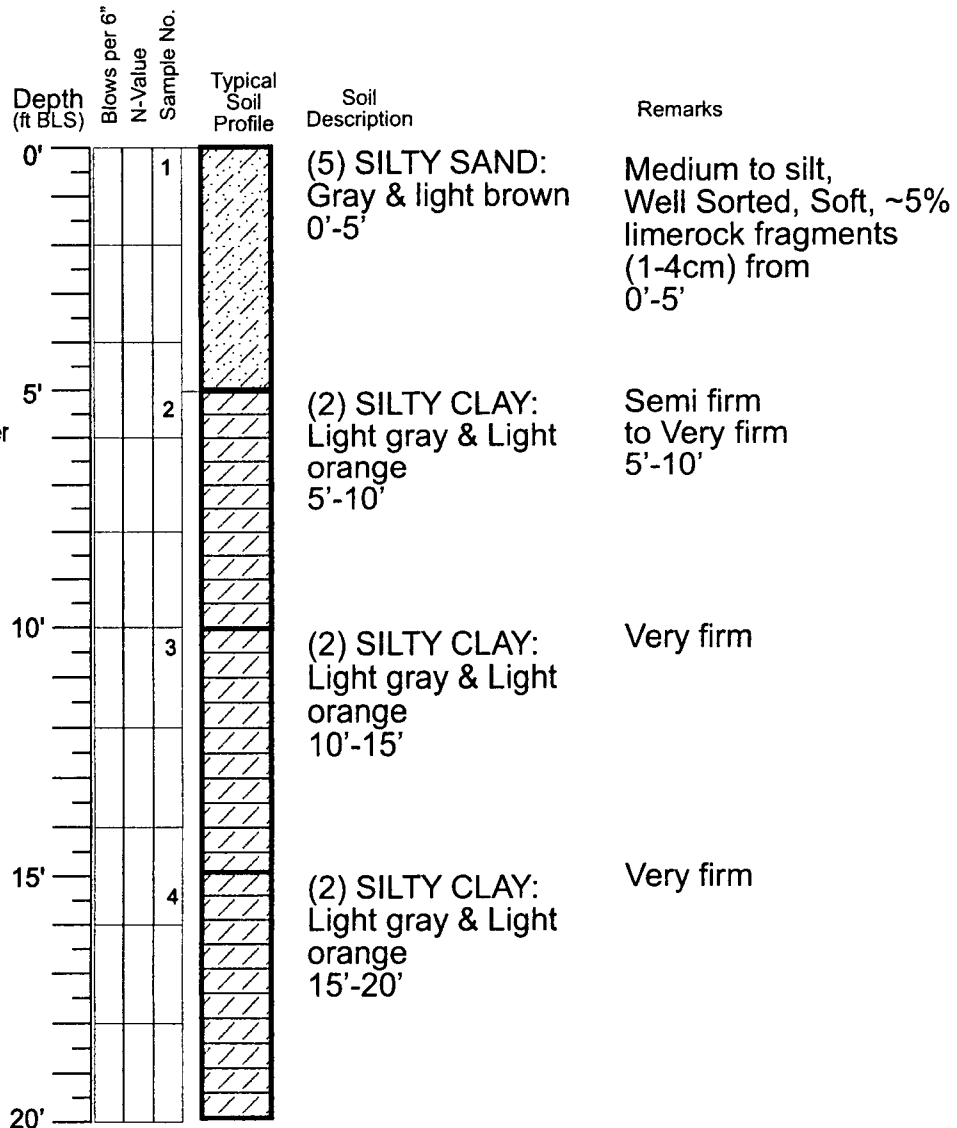
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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 & DISPOSAL FACILITY
 DADE CITY, FLORIDA**

**FIGURE
 29**

SSA-30

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Disposal & Disposal Facility
LOCATION: Dade City, FL








BORING

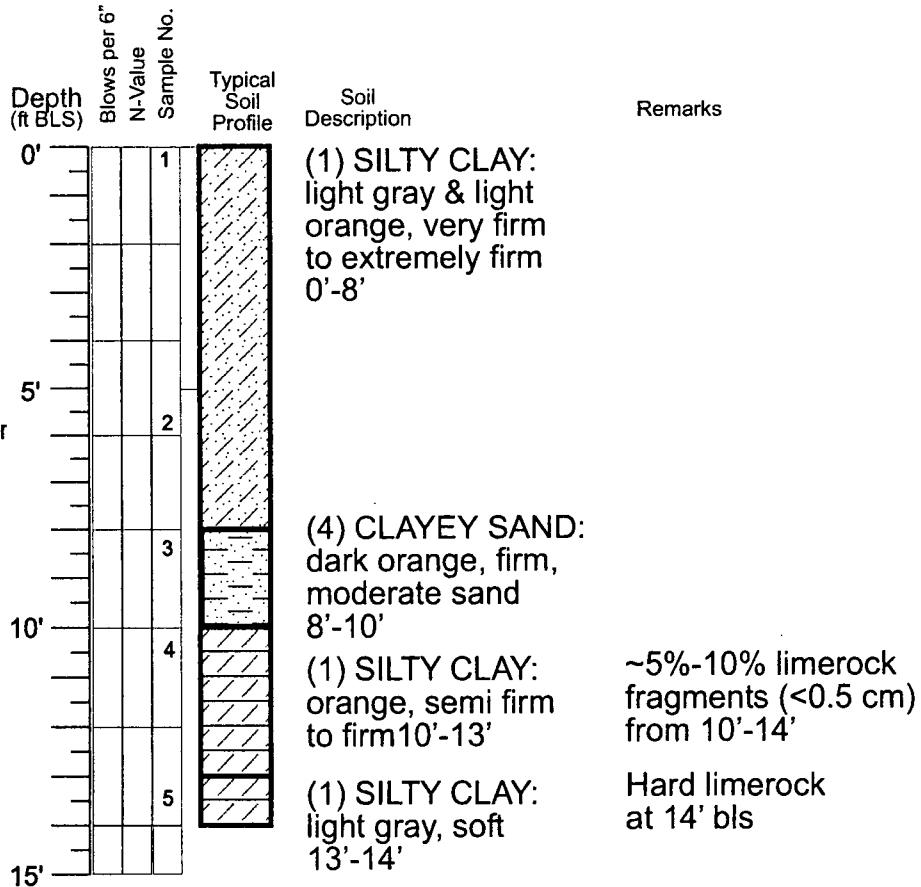
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 14' BLS
DATE STARTED: 9-4-03
DATE ENDED: 9-4-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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STRATIGRAPHIC COLUMN
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DADE CITY, FLORIDA

FIGURE
30

SSA-31

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








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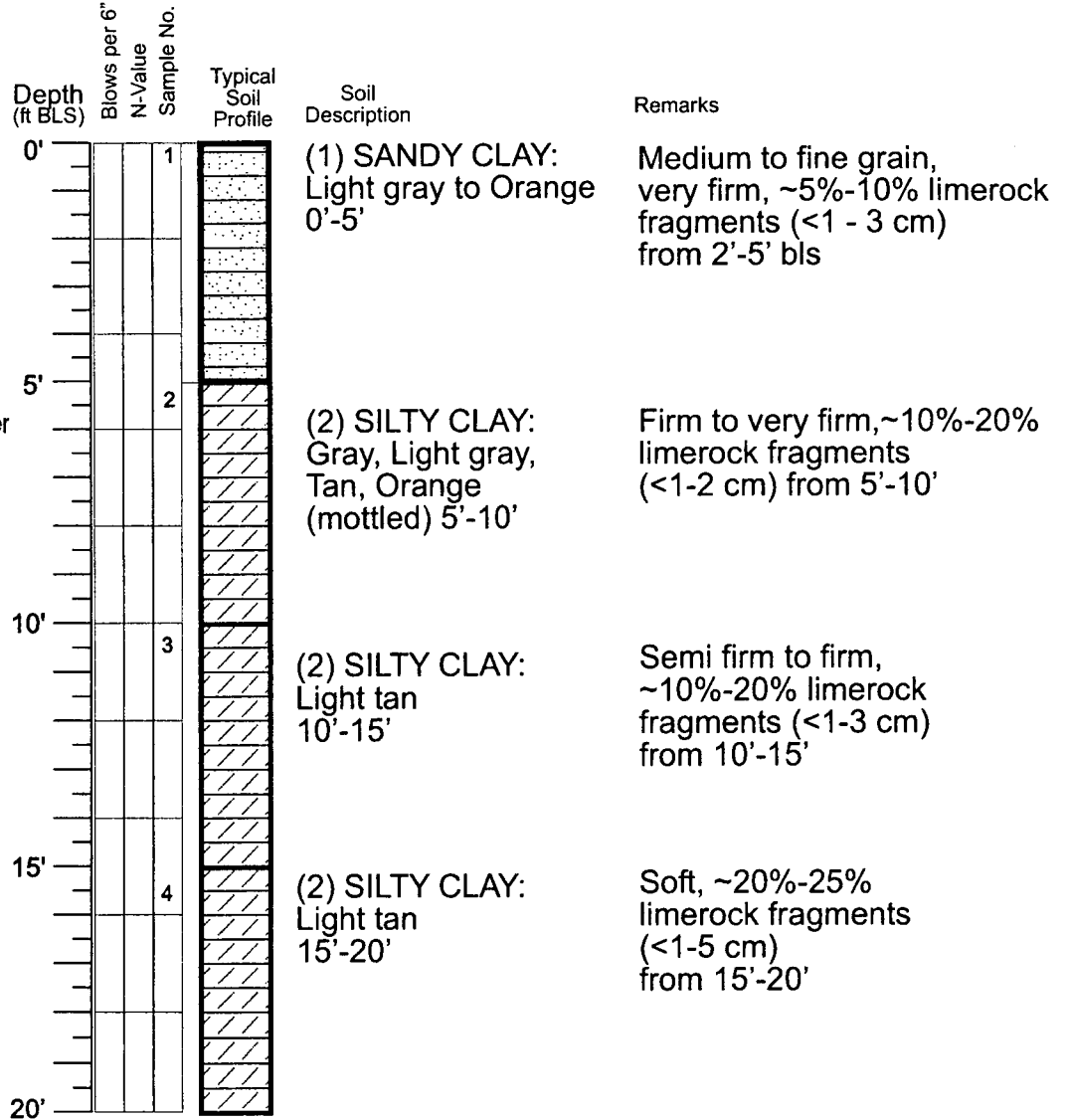
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
31

SSA-32

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

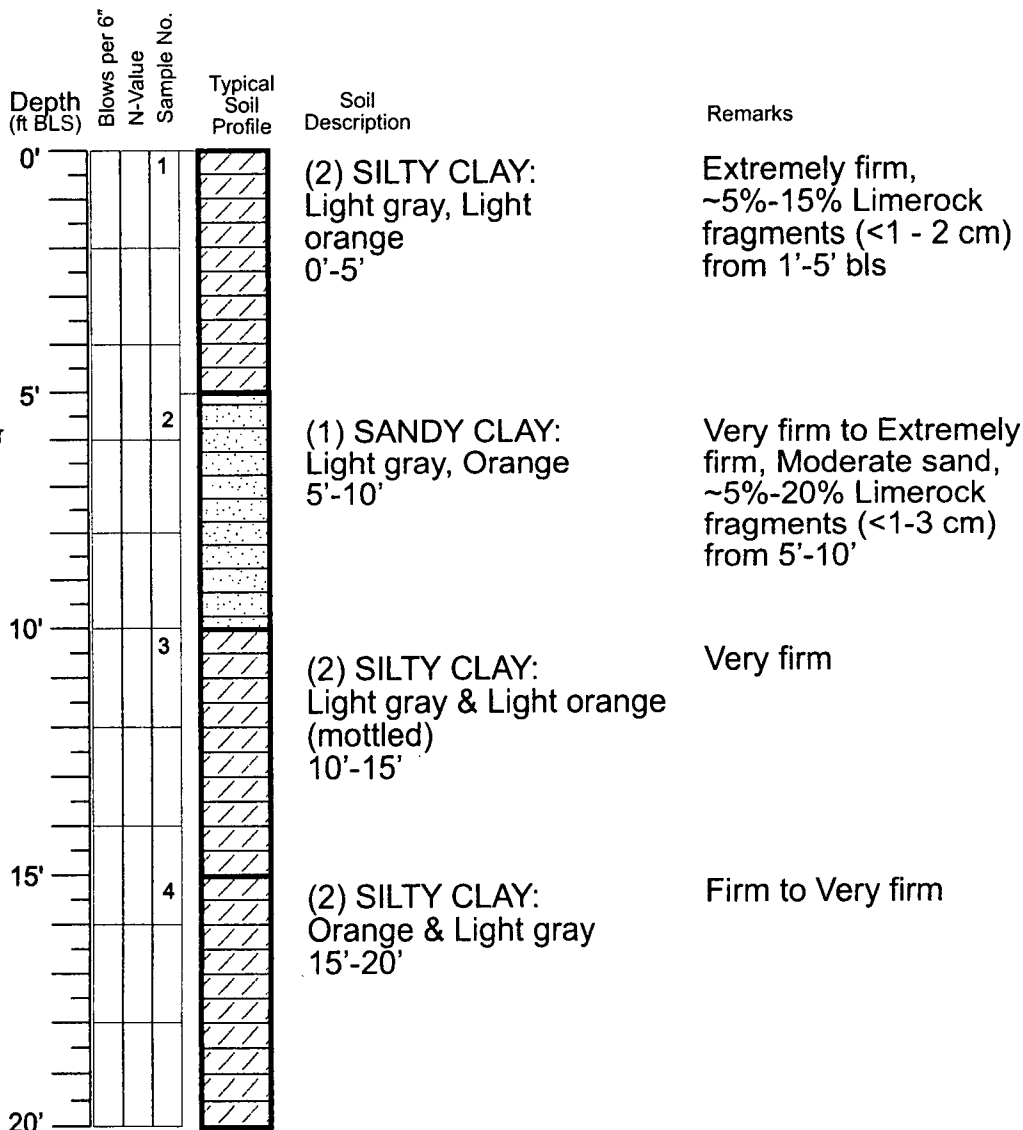
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amrdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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STRATIGRAPHIC COLUMN
ENTERPRISE RECYCLING
& DISPOSAL FACILITY
DADE CITY, FLORIDA

FIGURE
32

SSA-33

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

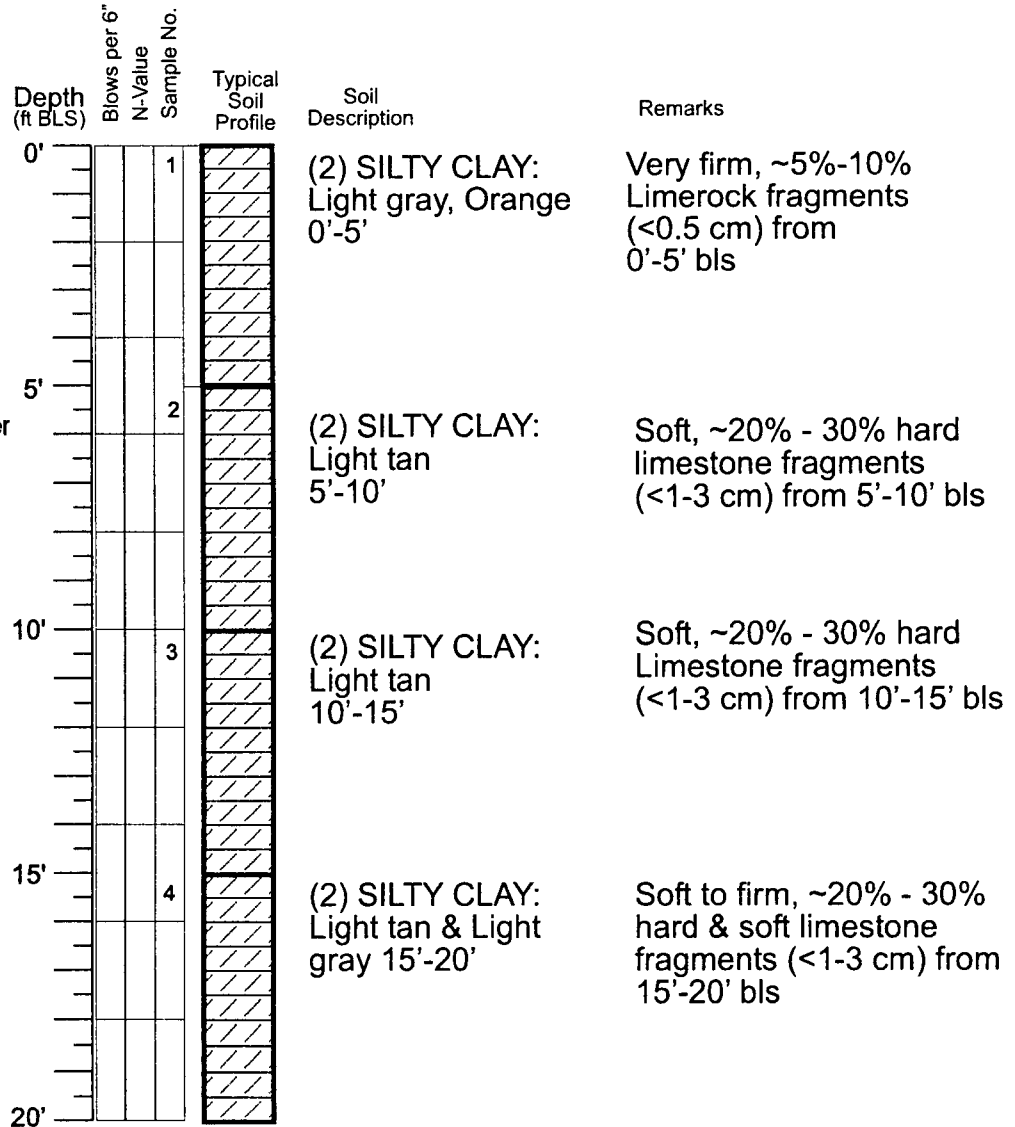
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
33

SSA-34

(Solid-stem Auger Boring)

PROJECT

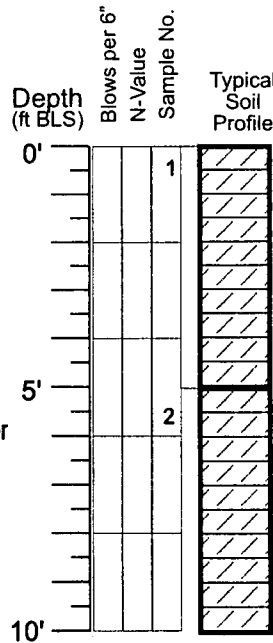
NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 10' BLS
DATE STARTED: 9-3-03
DATE ENDED: 9-3-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill



Soil Description

(2) SILTY CLAY:
 Light gray, Orange,
 Dark brown (mottled)
 0'-10'

Remarks

Small amount of sand,
 Very firm, ~5%-10%
 hard & soft limerock
 fragments (<1-2 cm)
 from 4'-10' bls

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE

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DADE CITY, FLORIDA

FIGURE
34

SSA-35 (Solid-stem Auger Boring)

PROJECT

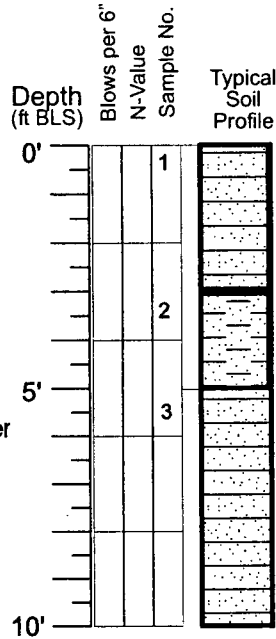
NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL

BORING

GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 10' BLS
DATE STARTED: 9-4-03
DATE ENDED: 9-4-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill



Soil Description	Remarks
(1) SANDY CLAY: Gray & Dark rust 0'-3'	Small to moderate amount of sand (fine), Very firm 0'-3'
(4) CLAYEY SAND: Gray & Dark rust 3'-5'	Moderate amount of sand (fine), Very firm to Firm 3'-5'
(1) SANDY CLAY: Light gray & Light orange, (mottled) 5'-10'	Small amount of sand, Very firm to Extremely firm 5'-10'

LEGEND

- (1) SANDY CLAY
- (2) SILTY CLAY
- (3) CLAY
- (4) CLAYEY SAND
- (5) SILTY SAND
- (6) LS MARL
- (7) LIMESTONE

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**STRATIGRAPHIC COLUMN
 ENTERPRISE RECYCLING
 & DISPOSAL FACILITY
 DADE CITY, FLORIDA**

**FIGURE
 35**

SSA-36
(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

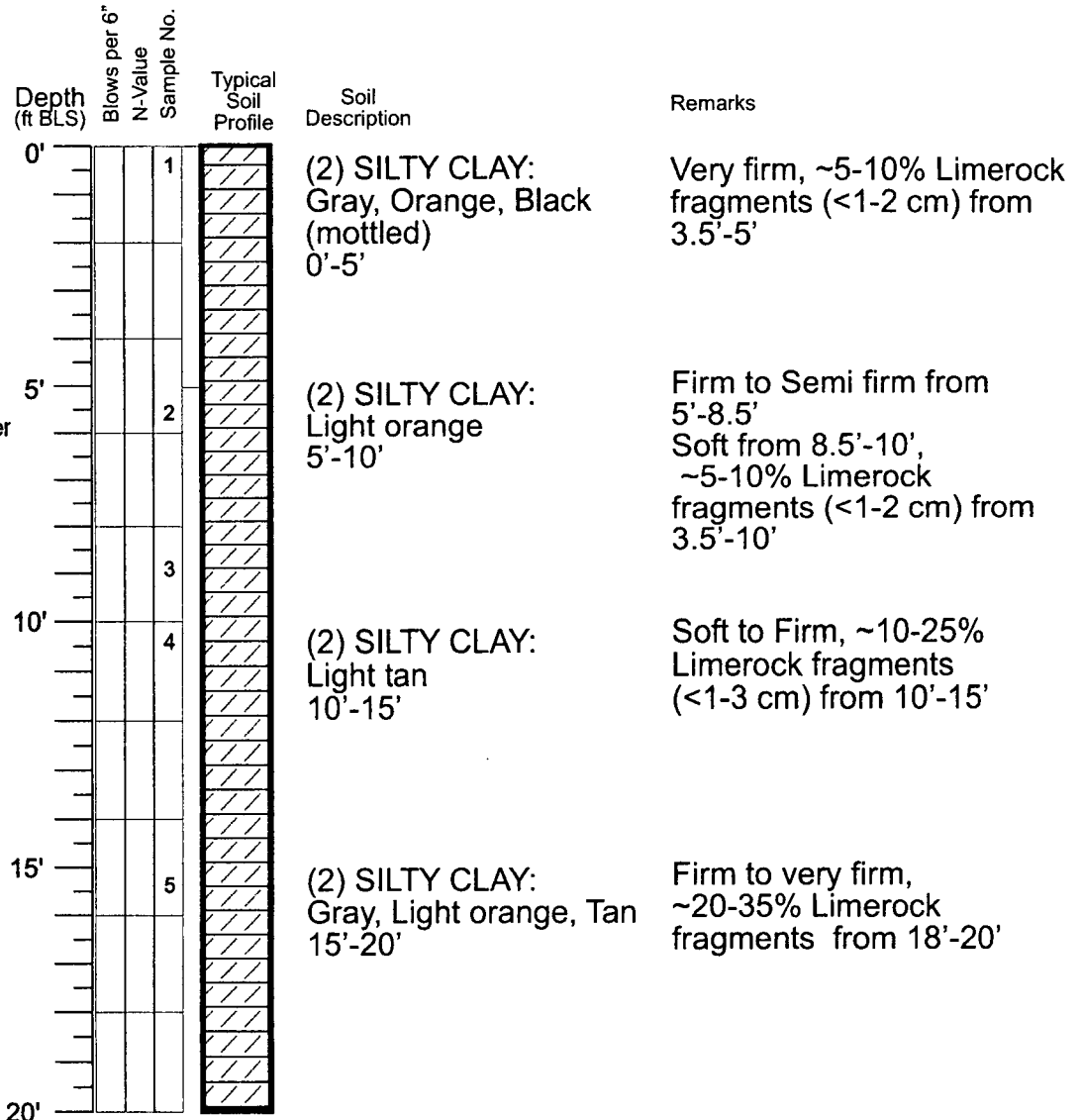
GR. ELEV: 75' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 20' BLS
DATE STARTED: 9-4-03
DATE ENDED: 9-4-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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DADE CITY, FLORIDA

FIGURE
36

SSA-37

(Solid-stem Auger Boring)

PROJECT

NUMBER: 99.0331.007
NAME: Enterprise Recycling & Disposal Facility
LOCATION: Dade City, FL








BORING

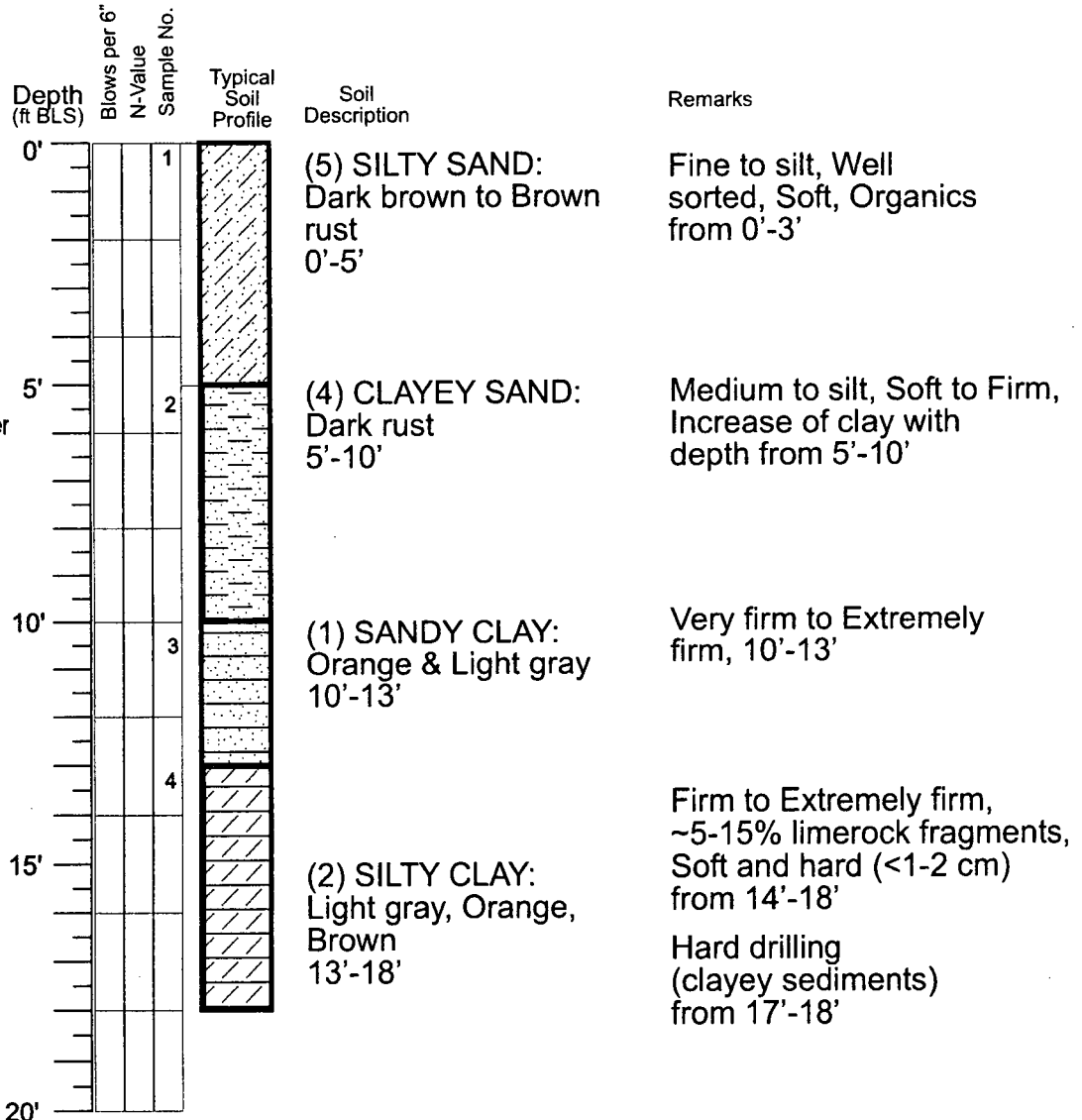
GR. ELEV: 103' NGVD
DIA-TYPE: 3"-Solid Stem Auger
DEPTH: 18' BLS
DATE STARTED: 9-4-03
DATE ENDED: 9-4-03

DRILLING

RIG TYPE: CME 45
CREW: Amdrill

LEGEND

- (1) SANDY CLAY 
- (2) SILTY CLAY 
- (3) CLAY 
- (4) CLAYEY SAND 
- (5) SILTY SAND 
- (6) LS MARL 
- (7) LIMESTONE 



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STRATIGRAPHIC COLUMN
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DADE CITY, FLORIDA

FIGURE
37

SS BUCKET AUGER BORING AS-10 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 17, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

			APPROX.							
DEPTH		ELEV.	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"					N
FROM	TO	(MSL)			1st	2n	3r	4th		
0	3	80	(5) SILTY SAND, Tan-Orange, Fine to Very Fine, Soft	1						

**SS BUCKET AUGER BORING AS-11 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 17, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.				Sample	Blow Count/ 6"				
DEPTH	ELEV.		SOIL DESCRIPTION	No.	1st	2n	3r	4th	N
FROM	TO	(MSL)							
0	0.5	80	(1) SANDY CLAY, Lt Gray, Orange, (mottled), Very Firm	1					
0.5	2.5	77.5	(1) SANDY CLAY, Gray, Brittle, Firm, Minor LS fragments	2					
2.5	3	77	(4)CLAYEY SAND, Lt Gray, Orange, Firm	3					

SS BUCKET AUGER BORING AS-12 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 17, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH FROM	TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
					1st	2n	3r	4th	N
0	3	80	(1) SANDY CLAY, Tan & Orange, Very Firm to Semi-Firm	1					

**SS BUCKET AUGER BORING AS-13 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 23, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH FROM	TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample Blow Count/ 6"				
				No.	1st 2n	3r	4th	N
0	0.5	81	(1) SANDY CLAY, Lt Gray & Orange,(mottled), Firm	1				
0.5	3	78	(3) CLAY, Lt Gray & Orange,(mottled), Very Firm	2				

SS BUCKET AUGER BORING AS-14 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 23, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample Blow Count/ 6"									
DEPTH	ELEV.	FROM		TO	No.	1st	2n	3r	4th	N			
	(MSL)												
			0	1.5	81	(4) CLAYEY SAND, Lt Gray & Orange, (mottled), Very Firm	1						
			1.5	2	79	Hard Limestone Cobble or Boulder, Stopped Boring	2						

**SS BUCKET AUGER BORING AS-16 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 23, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
DEPTH FROM	DEPTH TO	ELEV. (MSL)			1st	2n	3r	4th	N
0	2	81	(4) CLAYEY SAND, Lt Gray & Orange, (mottled), Firm to V-Fir	1					
2	3	78	(2) SILTY CLAY, Orange & Lt Gray, (mottled), Very Firm	2					

SS BUCKET AUGER BORING AS-17 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 23, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

		APPROX.								
DEPTH FROM	TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"					
					1st	2n	3r	4th	N	
0	2.5	81	(4) CLAYEY SAND, Lt Gray, Semi-Firm to Firm	1						
2.5	3	78	(3) CLAY, Gray & Black, Massive, Extremely Firm	2						

**SS BUCKET AUGER BORING AS-18 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 23, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH		ELEV.	SOIL DESCRIPTION	Sample Blow Count/ 6"				
FROM	TO	(MSL)		No.	1st	2n	3r	4th
0	2	81	(5) SILTY SAND, Lt Gray & Orange, (mottled), Semi-Soft to Firm	1				
2	3	78	(2) SILTY CLAY, Lt Gray, Very Firm	2				

SS BUCKET AUGER BORING AS-19 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA

SAMPLE DATE: July 23, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH		ELEV.	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
FROM	TO	(MSL)			1st	2n	3r	4th	N
0	2	81	(4) CLAYEY SAND, Lt Gray & Orange,(mottled) V-Firm to S-Fir	1					
2	3	78	(1) SANDY CLAY, Orange & Lt Gray, (mottled) Very Firm	2					

SS BUCKET AUGER BORING AS-20 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 23, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH		ELEV.	SOIL DESCRIPTION	Sample	Blow Count/ 6"				
FROM	TO	(MSL)		No.	1st	2n	3r	4th	N
0	1.5	80	(2) SILTY CLAY, Lt Gray & Black, Semi-Firm to Very Firm	1					
1.5	2.5	77.5	(2) SILTY CLAY, Lt Gray, Firm to Very Firm	2					
2.5	3	77	Weathered LS, White, Brittle w/ 2-6 cm Fragments	3					

**SS BUCKET AUGER BORING AS-21 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 23, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
DEPTH FROM	TO	ELEV. (MSL)			1st	2n	3r	4th	N
0	2	80			(2) SILTY CLAY, Lt Gray & Orange, (mottled), Very Firm	1			
2	2.5	77.5	(1) SANDY CLAY, Dk Brown-Gray, Semi-Firm to Firm	2					
2.5	3	77	(3) CLAY, Lt Gray, Very Firm	3					

SS BUCKET AUGER BORING AS-22 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 23, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH			SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
FROM	TO	ELEV. (MSL)			1st	2n	3r	4th	N
0	3	80	(1) SANDY CLAY, Lt Gray & Tan-Orange, Very Firm	1					

**SS BUCKET AUGER BORING AS-23 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 23, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH		ELEV.		SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
FROM	TO	(MSL)	(MSL)			1st	2n	3r	4th	N
0	2	80		(1) SANDY CLAY, Tan & Orange, (mottled), Very Firm	1					
2	2.5	77.5		(4) CLAYEY SAND, Tan-Orange, Brown, (mottled), Firm	2					
2.5	3	77		(2) SILTY CLAY, Tan-Orange	3					

SS BUCKET AUGER BORING AS-24 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 23, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH		ELEV.	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"			
FROM	TO	(MSL)			1st	2n	3r	4th
0	1.5	80	(2) SILTY CLAY, Lt Tan & Lt Orange, (mottled), Firm to Very Fir	1				
1.5	3	77	(1) SANDY CLAY, Lt Tan-Orange, Very Firm	2				

**SS BUCKET AUGER BORING AS-25 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 23, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH		ELEV.	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
FROM	TO	(MSL)			1st	2n	3r	4th	N
0	3	80	(3) CLAY, Lt-Dk Gray, Massive, Sm Amt Sand, Ext Firm, Minor LS (small) Fragments (soft and hard)	1					

**SS BUCKET AUGER BORING AS-26 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 25, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

DEPTH FROM	DEPTH TO	APPROX.		SOIL DESCRIPTION	Sample No.	Blow Count/ 6"					
		ELEV.	(MSL)			1st	2n	3r	4th	N	
0	2	96		(4) CLAYEY SAND, Rust-Orange, Fine to Very Fine, Soft	1						
2	3	93		(4) CLAYEY SAND, Lt Gray, Orange, Fine to V-Fine, S-Firm,	2						
				Increase in Clay from 2.5'-3'	3						

**SS BUCKET AUGER BORING AS-27-LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 25, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
DEPTH FROM	DEPTH TO	ELEV. (MSL)			1st	2n	3r	4th	N
0	3	92			(5) SILTY SAND, Rust-Orange, Fine to Silt, Soft, Fe-Nodules	1			

**SS BUCKET AUGER BORING AS-28 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 25, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample Blow Count/ 6"					
DEPTH FROM	TO	ELEV. (MSL)		No.	1st	2n	3r	4th	N
0	1.5	86		(4) CLAYEY SAND, Rust-Orange, Fine to V-Fine, Soft	1				
1.5	2.75	83.25	(4) CLAYEY SAND, Lt Gray, Rust, & Orange, (mottled), Semi-Fir	2					
2.75	3	83	(4) CLAYEY SAND, Lt Gray, Rust, Orange, (mottled), Firm	3					

SS BUCKET AUGER BORING AS-29 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 25, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

DEPTH FROM	TO	APPROX. ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
					1st	2nd	3rd	4th	N
0	3	85	(4) CLAYEY SAND, Lt Gray, Fine to Silt, Very Firm, Weathered LR Fragments from 1'-3'	1					

SS BUCKET AUGER BORING AS-30 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: July 25, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample	Blow Count/ 6"			
DEPTH FROM	DEPTH TO	ELEV. (MSL)		No.	1st	2n	3r	4th
0	1.5	85	(4) CLAYEY SAND, Tan-Orange, Fine to Silt, Soft to Semi-Firm	1				
1.5	3	82	(4) CLAYEY SAND, Lt Gray, Fine to Silt, Firm to Very Firm,	2				
			Increase in Clay with Depth					

**SS BUCKET AUGER BORING AS-32 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 25, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.			SOIL DESCRIPTION	Sample Blow Count/ 6"					
DEPTH FROM	DEPTH TO	ELEV. (MSL)		No.	1st	2n	3r	4th	N
0	1.5	85		(1) SANDY CLAY, Lt Gray & Black, Very Firm	1				
1.5	3	82	(3) CLAY, Lt Gray, Orange, & Black,(mottled), Ext Firm	2					

**SS BUCKET AUGER BORING AS-33 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: July 25, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH		ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
FROM	TO				1st	2n	3r	4th	N
0	1	83	(4) CLAYEY SAND, Lt gray, Orange, & Black, S. Firm to Firm	1					
1	2	81	(1) SANDY CLAY, Lt Gray, Orange, Very Firm, Hard LS	2					
			Fragment @ 2' , Stopped Boring						

SS BUCKET AUGER BORING AS-34 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA

SAMPLE DATE: July 25, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.										
DEPTH		ELEV.	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"					
FROM	TO	(MSL)			1st	2n	3r	4th	N	
0	1	83	(4) CLAYEY SAND, Lt gray, Orange, (mottled), Firm to Very Firm	1						
1	3	80	(1) SANDY CLAY, Lt Gray, Orange, (mottled), V-Firm to Ext Fir	2						

SS BUCKET AUGER BORING AS-35 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA

SAMPLE DATE: July 25, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH FROM	DEPTH TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample Blow Count/ 6"					
				No.	1st	2n	3r	4th	N
0	1.5	85	(3) CLAY, Lt gray & Lt Orange (mottled), Very Firm	1					
1.5	3	82	(1) SANDY CLAY, Lt Orange,Gray,Black,(mottled) V-F to E-Fir	2					
			Soft Weathered LS Fragments						

**SS BUCKET AUGER BORING AS-36 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA**

SAMPLE DATE: August 8, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH FROM	DEPTH TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
					1st	2n	3r	4th N	
0	3	80	(1) SANDY CLAY, Gray, Orange, (mottled), Ext Firm to Firm	1					

**SS BUCKET AUGER BORING AS-37 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: August 8, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH FROM	TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
					1st	2n	3r	4th	N
0	1.5	80	(2) SILTY CLAY, Lt Gray, Orange, (mottled), Very Firm to Firm	1					
1.5	1.75	78.25	(4) CLAYEY SAND, Lt Gray, Orange, Semi-Firm to Firm	2					
1.75	3	77	(2) SILTY CLAY, Dk Brown, Lt Gray, Orange, V-Firm to S-Firm,	3					
			Minor Weathered LS Fragments @ 2.9'						

**SS BUCKET AUGER BORING AS-38 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: August 8, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.

DEPTH		ELEV.	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
FROM	TO	(MSL)			1st	2n	3r	4th	N
0	1	80	(2) SILTY CLAY, Lt Gray, Orange, Dk Brn, (mottled) Firm to VFir	1					
1	1.75	78.25	(4) CLAYEY SAND, Lt Gray, Dk Brown, Semi-Firm to Firm	2					
1.75	3	77	(1) SANDY CLAY, Lt Gray, Orange, Dk Brn, (mottled), Very Firm	3					

SS BUCKET AUGER BORING AS-39 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: August 8, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

APPROX.				Sample Blow Count/ 6"					
DEPTH	ELEV.			No.	1st	2n	3r	4th	N
FROM	TO	(MSL)	SOIL DESCRIPTION						
0	3		(2) SILTY CLAY, Lt Gray, Lt Orange, (mottled), Ext Firm	1					

SS BUCKET AUGER BORING AS-40 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA

SAMPLE DATE: August 8, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH FROM	TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample No.	Blow Count/ 6"				
					1st	2n	3r	4th	N
0	1.5	81	(1) SANDY CLAY, Lt Gray, Orange, (mottled), Very Firm	1					
1.5	2.5	78.5	(3) CLAY, Lt Gray, Tan-Orange, Ext Firm	2					
2.5	3	78	(1) SANDY CLAY, Lt Gray, Orange, (mottled) Ext Firm to V-Fir	3					

SS BUCKET AUGER BORING AS-42 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA

SAMPLE DATE: August 8, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

APPROX.

DEPTH		ELEV.	SOIL DESCRIPTION	Sample	Blow Count/ 6"				
FROM	TO	(MSL)		No.	1st	2n	3r	4th	N
0	4	82	(4) CLAYEY SAND, Lt Gray, Dk Orange, Fine to Silt, Soft	1					

**SS BUCKET AUGER BORING AS-43 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA**

SAMPLE DATE: August 8, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

		APPROX.								
DEPTH FROM	DEPTH TO	ELEV. (MSL)	SOIL DESCRIPTION	Sample	Blow Count/ 6"					
				No.	1st	2n	3r	4th	N	
0	2	82	(1) SANDY CLAY, Lt Gray, Tan-Orange, Very Firm	1						
2	3	79	(1) SANDY CLAY, Lt Gray, Tan-Orange, Very Firm, Small	2						
			Increase in Sand from 2'-3'							

**SS BUCKET AUGER BORING AS-44 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA**

SAMPLE DATE: August 8, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

		APPROX.		SOIL DESCRIPTION	Sample Blow Count/ 6"				
DEPTH	ELEV.		NO.		1st	2n	3r	4th	N
FROM	TO	(MSL)							
0	2	83		(4) CLAYEY SAND, Rust, Fine to Silt, Firm to Semi-Firm	1				
2	3	80		(4) CLAYEY SAND, Rust, Lt Gray, Fine to Silt, Firm to Semi-Fir	2				

**SS BUCKET AUGER BORING AS-45 LITHOLOGIC DESCRIPTION
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 PASCO COUNTY, FLORIDA**

SAMPLE DATE: August 8, 2003
COLLECTED BY: Miguel Garcia
WATER DEPTH: NA

		APPROX.				Sample Blow Count/ 6"				
DEPTH		ELEV.		SOIL DESCRIPTION	No.	1st	2n	3r	4th	N
FROM	TO	(MSL)								
0	3	82		(1) SANDY CLAY, Lt Gray,Orange, (mottled), V-Firm to Ext Fir	1					

**SS BUCKET AUGER BORING AS-46 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

SAMPLE DATE: August 8, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

			APPROX.		SOIL DESCRIPTION	Sample Blow Count/ 6"				
DEPTH FROM	DEPTH TO	ELEV. (MSL)				No.	1st	2n	3r	4th
0	1	81			(5) SILTY SAND, Orange, Fine to Silt, Well Sorted, Soft	1				
1	3	78			(4) CLAYEY SAND, Orange-Tan, Semi-Firm to Firm	2				

**SS BUCKET AUGER BORING AS-47 LITHOLOGIC DESCRIPTION
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
PASCO COUNTY, FLORIDA**

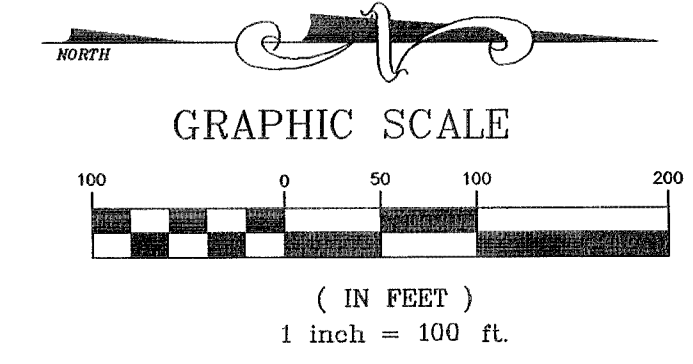
SAMPLE DATE: August 8, 2003
 COLLECTED BY: Miguel Garcia
 WATER DEPTH: NA

DEPTH		ELEV.		SOIL DESCRIPTION	Sample Blow Count/ 6"				
FROM	TO	(MSL)			No.	1st 2n	3r	4th	N
0	3			(1) SANDY CLAY, Gray,Lt Orange,Black,(mottled) Firm to V-fir Soft, Weathered LR from 0.75' to 3'	1				

APPENDIX D

ENTERPRISE RECYCLING AND DISPOSAL FACILITY

2



NOTES:

1. THIS DRAWING IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
2. ELEVATIONS SHOWN HEREON ARE BASED ON THE CONSTRUCTION PLANS FOR THE ENTERPRISE RECYCLING & DISPOSAL FACILITY AND ENTERPRISE RD. BENCH MARK USED IS A NAIL & DISK IN A POWER POLE STATION 115+74.55 58.36 LT. ELEVATION = 114.02'.
3. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN FORESIGHT SURVEYORS, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM FORESIGHT SURVEYORS, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL HEREON NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO FORESIGHT SURVEYORS, INC.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

OCT 09 2003

SOUTHWEST DISTRICT
TAMPA

RECEIVED
 10/10/03
 10:00 AM
 ENVIRONMENTAL PROTECTION
 DISTRICT OFFICE
 TAMPA, FLORIDA

TITLE: **ASBUILT SURVEY**
 FOR: GOODWIN BROS. CONSTRUCTION
 DESC: SECTION 8, TOWNSHIP 25 SOUTH, RANGE 22 EAST

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

A. DANIEL MILLER, P.S., No. 12594
 FLORIDA SURVEYORS REGISTRATION BOARD

NO.	REVISION	DATE	BY

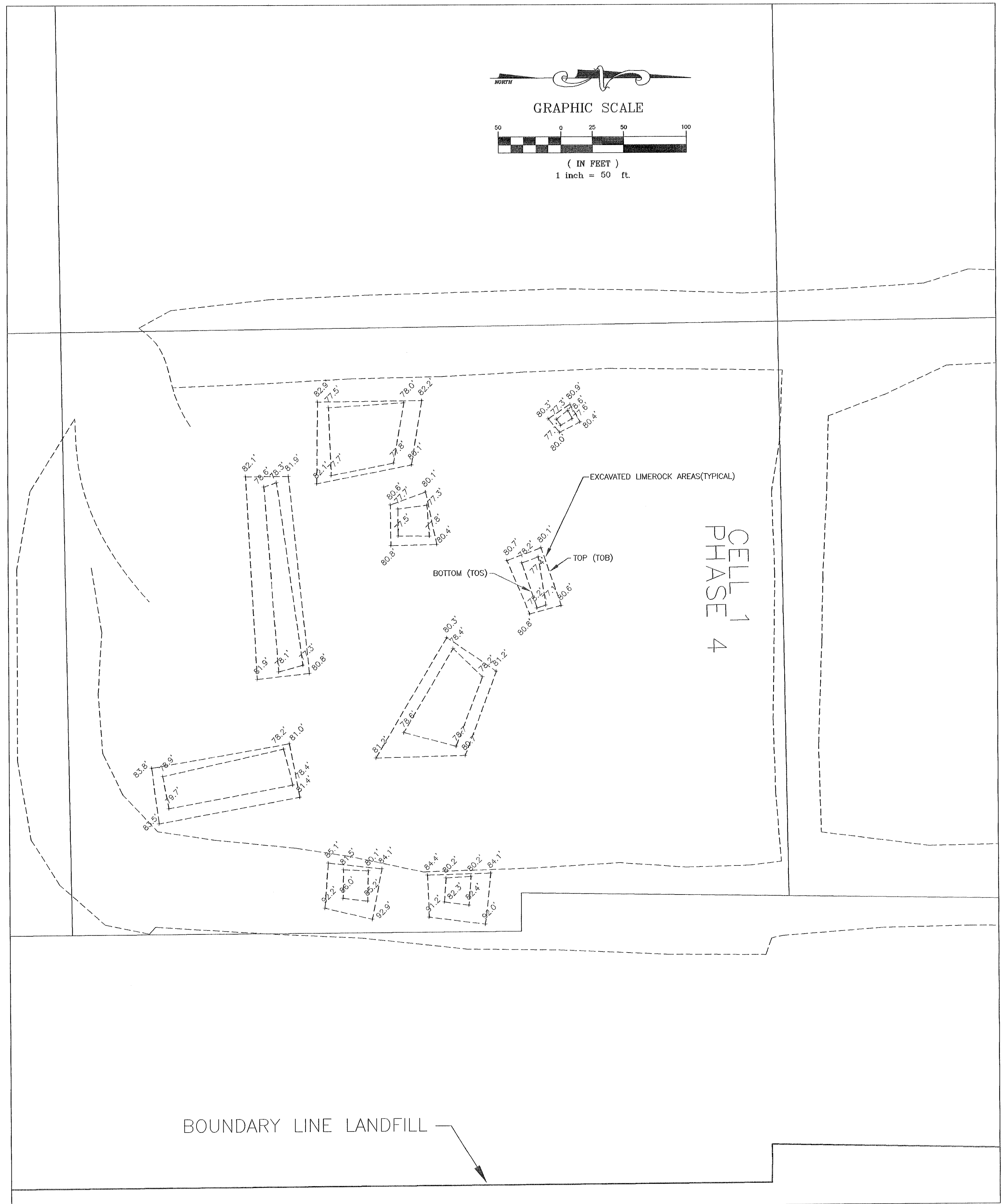
FORESIGHT SURVEYORS, INC.
 HYDROGRAPHIC, LAND & CONSTRUCTION SURVEYING
 773 PROVIDENCE BOULEVARD, BROOKSVILLE, FLORIDA 34601
 PH. (352) 797-6306 FAX (352) 797-6308 LB No.: 5776

CADD FILE: ASBUILT PROJ MAN: DRAWN BY: ADM CHECKED BY:
 PROJ. NO.: 22126 FB B64, PG 28 FIELD DATE: 10/03/03 SCALE: 1"=100'

SHEET
1
OF 2

ENTERPRISE RECYCLING AND DISPOSAL FACILITY

3



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 09 2003
SOUTHWEST DISTRICT TAMPA

TITLE: **ASBUILT SURVEY**
FOR: GOODWIN BROS. CONSTRUCTION
DESC: SECTION 8, TOWNSHIP 25 SOUTH, RANGE 22 EAST

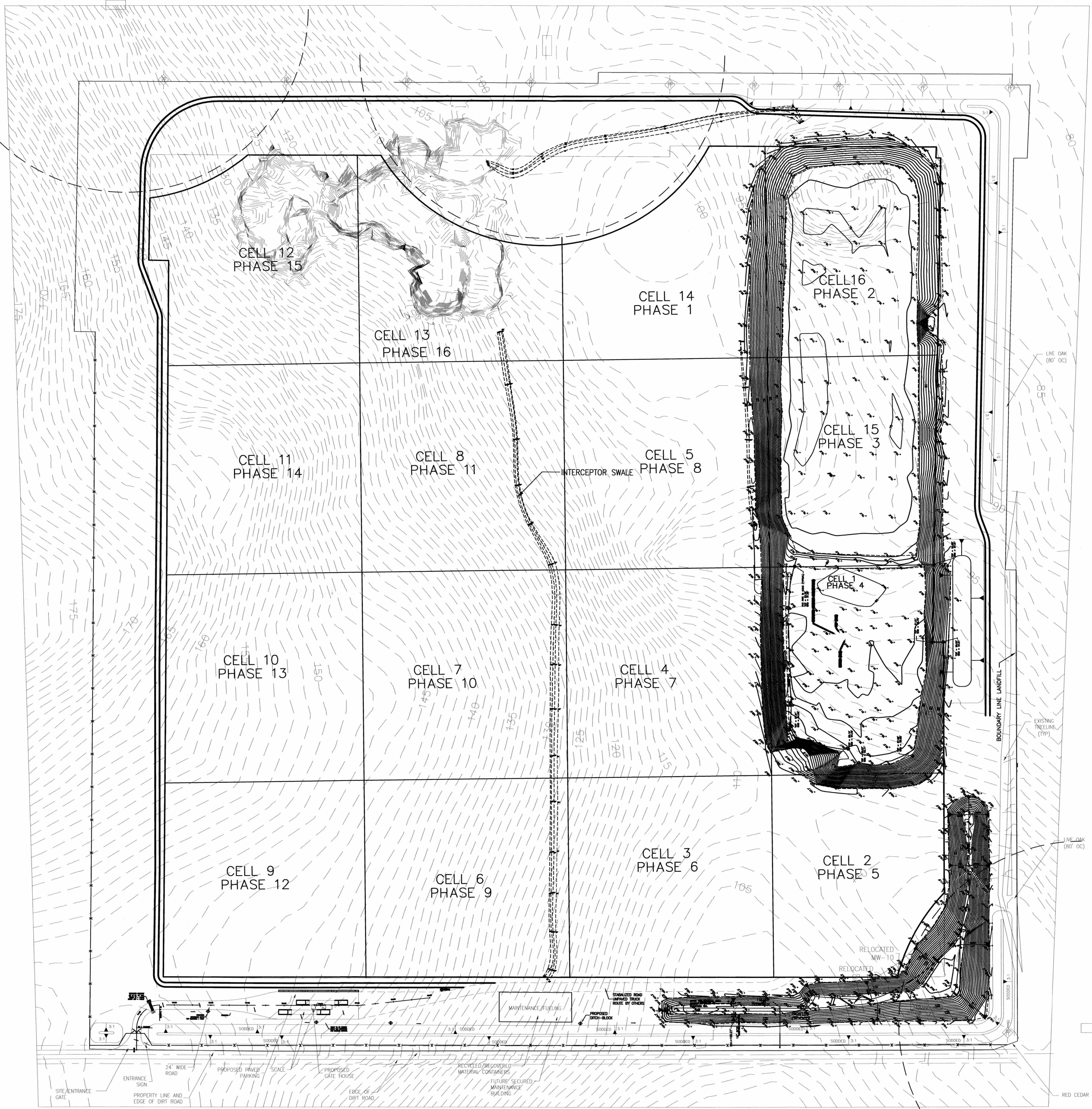
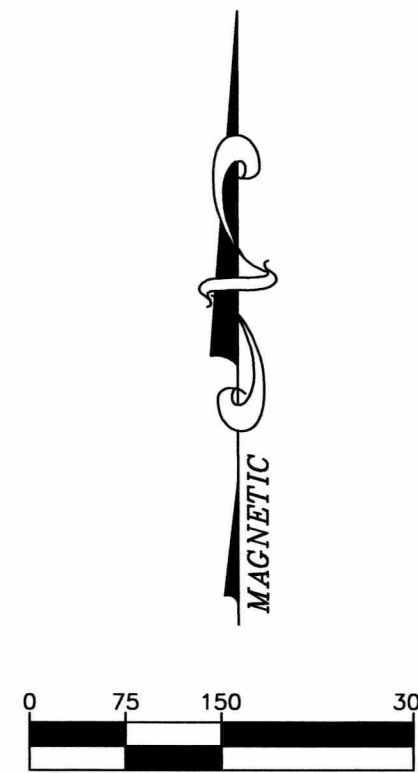
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NO.	REVISION	DATE	BY

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HYDROGRAPHIC, LAND & CONSTRUCTION SURVEYING
773 PROVIDENCE BOULEVARD, BROOKSVILLE, FLORIDA 34601
PH. (352) 797-6306 FAX (352) 797-6308 LB No.: 5776

CADD FILE: ASBUILT PROJ. MAN: _____ DRAWN BY: ADM CHECKED BY: _____
PROJ. NO.: 22126 FB B64, PG 65 FIELD DATE: 09/15/03 SCALE: 1"=50'

SHEET
2
OF 2



H:\040\0401\9999\999-331.01\DWG\AS-Built\BORROW PIT.dwg

Plotted: Oct 08, 2003 - 5:22pm by RCC

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 09 2003
SOUTHWEST DISTRICT
TAMPA

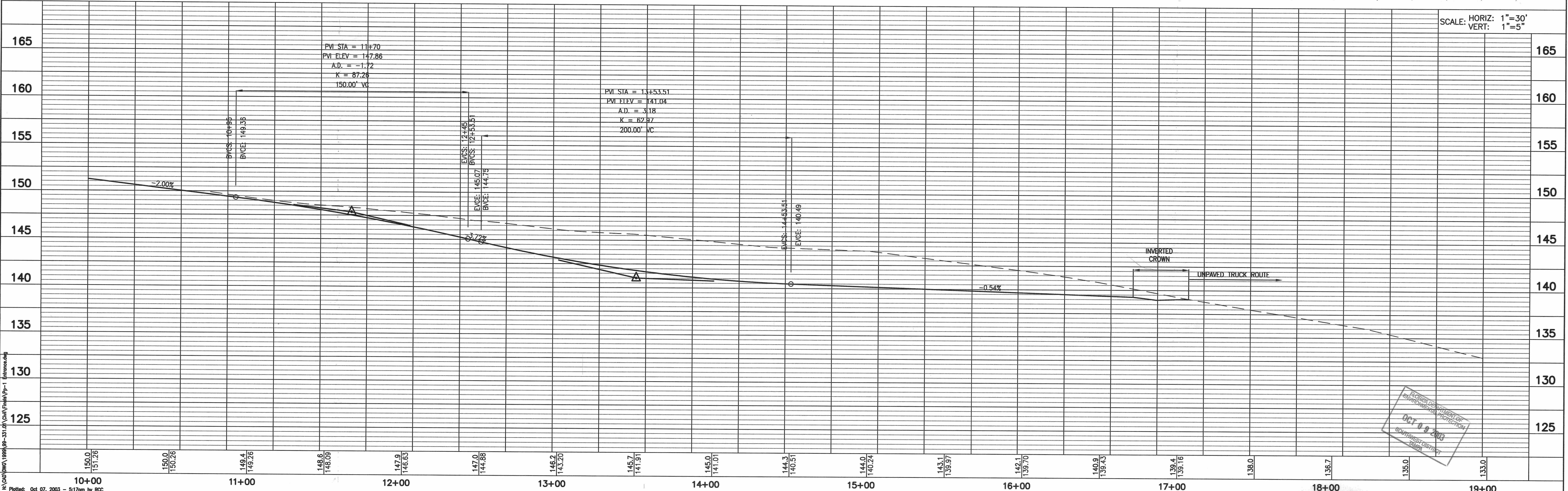
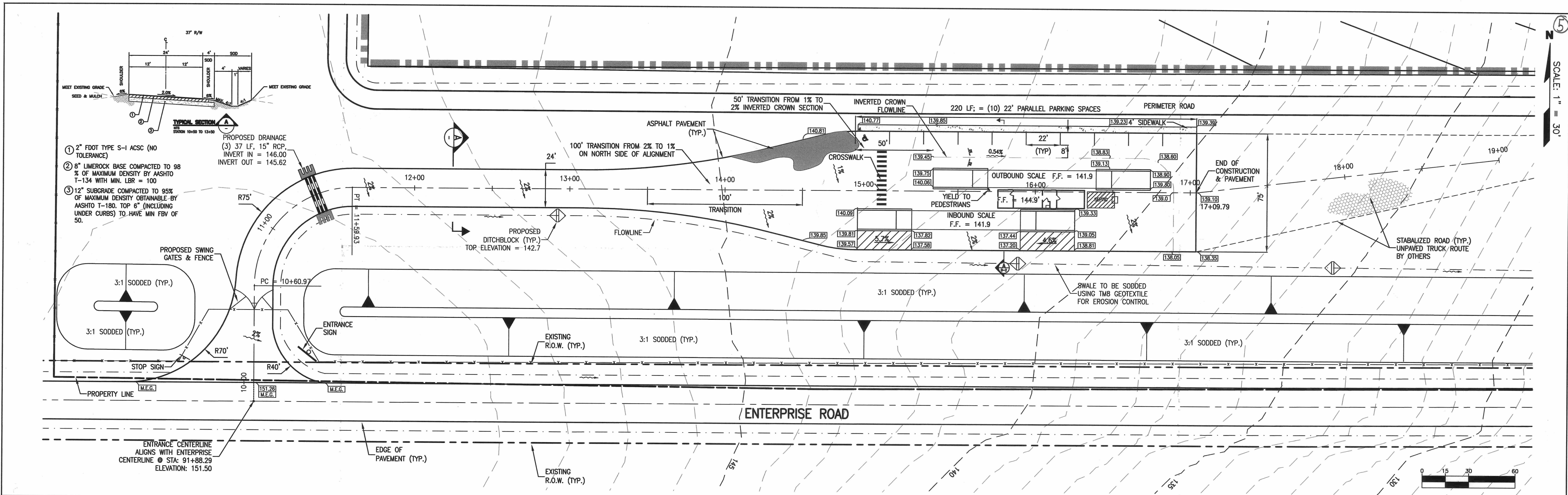
HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
TELEPHONE (407) 839-3955 - FAX (407) 839-3790
ENGINEERING BUSINESS No. 5814

**ENTERPRISE LANDFILL
PASCO COUNTY
FLORIDA**

**AS-BUILT
DRAINAGE PLAN**

DATE	REVISIONS	REVISED	CHECKED

DESIGNED	BY	DATE	PROJECT NO.
RCC	RCC	6/03	99.0331.001
DRAWN	RCC	6/03	SCALE 1" = 150'
CHECKED	RKC	7/03	
QC APPROVAL	RKC	7/03	
FILE: BORROW PIT.dwg			SHEET 1 of 1



HARTMAN & ASSOCIATES, INC.
 engineers, hydrogeologists, surveyors & management consultants
 201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
 TELEPHONE (407) 839-3955 - FAX (407) 839-3790
 ENGINEERING BUSINESS No. 5814

**ENTERPRISE LANDFILL
 PASCO COUNTY
 FLORIDA**

**PLAN & PROFILE
 ENTRANCE ROAD**

DATE	REVISIONS	REVISED	CHECKED	DATE	FILE: Pp-1 Entrance.dwg

Roderick J. Oshiro, P.E.
 P.E. No. 25160 - FL
 201 East Pine Street
 Orlando, Florida 32801
 Engineering Business No. 5814

DESIGNED RCC 6/01
 DRAWN RCC 6/01
 CHECKED RKC 6/01
 QC APPROVAL RKC 6/01

PROJECT NO. 99-331.01
 SCALE AS NOTED
PP-1
 SHEET 1 of 4

APPENDIX E

PROJECT # 99-0331-007

6K267

REPORT ON
 TRIAXIAL PERMEABILITY
 AND PERCENT PASSING NO. 200 SIEVE
 (ASTM D-5084 and ASTM C-117)
 (AASHTO T-11)

Client: *Hortman and Associates*

Project: *Enterprise Road Landfill*

Soil Description: *orange to tan clayey sand*

Location: *Stockpile 1*

Date Tested: *8/25 & 8/26/03*

Tested By: *L. Bass/G. Kemp*

Date Sampled: *8-06-03*

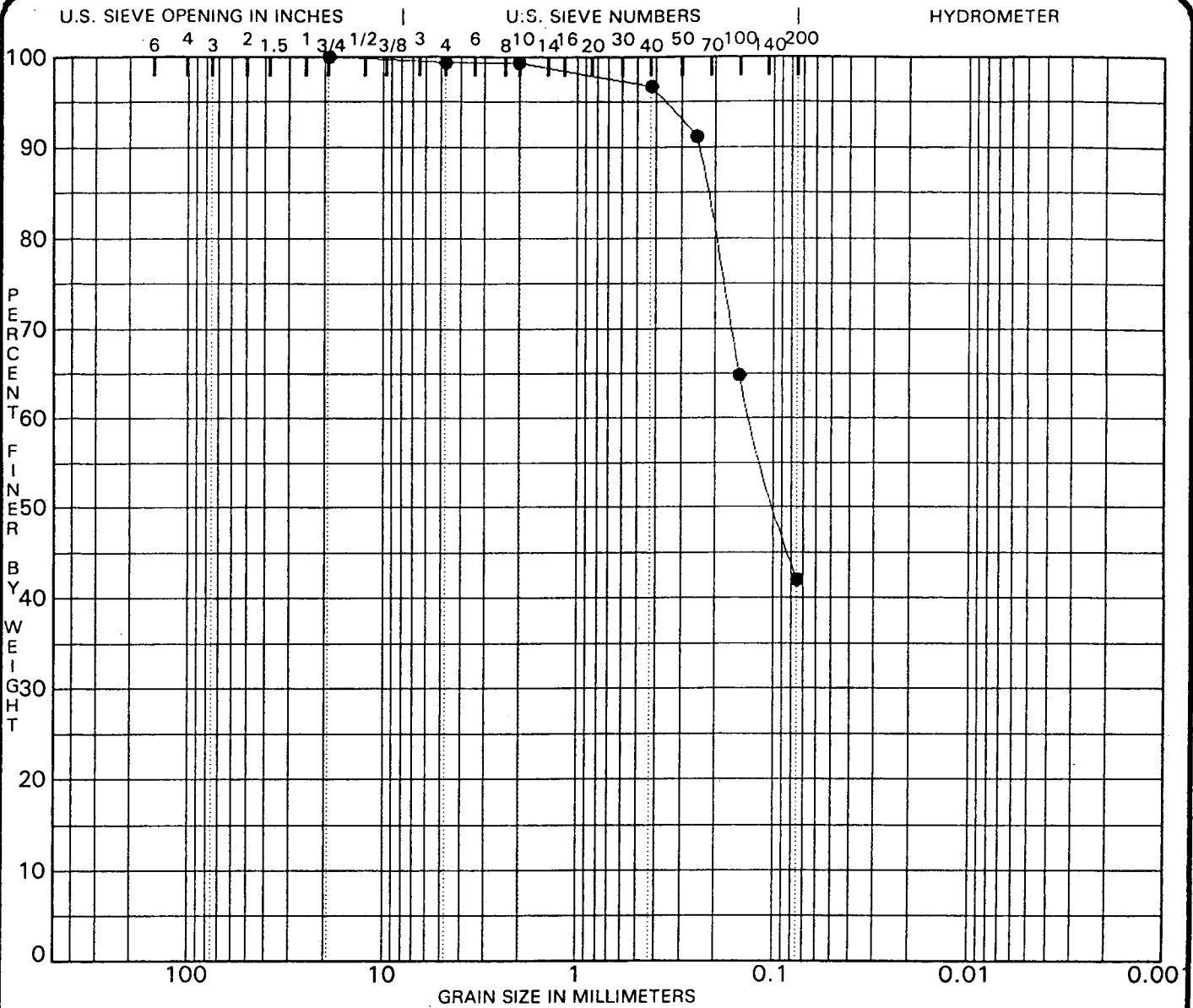
Sampled By: *client*

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
<i>24.1</i>	<i>42.0</i>	<i>95.4</i>	<i>4.2E-09</i>	<i>1.2E-05</i>

Attention: Miguel Garcia

REMARKS: *For informational purposes only.*



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● PILE1 0.0		24					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● PILE1 0.0	19.00	0.13			0.7	57.3	42.0	

PROJECT ENTERPRISE ROAD LANDFILL - FL JOB NO. 99-0331-007/GK269
 DATE 8/8/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA

UNIVERSAL ENGINEERING SCIENCES

PROCTOR TEST RESULTS

CLIENT

Hartman & Associates, Inc.
Attn: Miguel Garcia
201 East Pine Street, Suite 1000
Orlando, Florida 32801

PROJECT NAME/LOCATION

Enterprise Road Landfill, Central Florida

PROJECT NO.: 15994-000-00

Sample Location:
Stockpile No. 1, Native Material

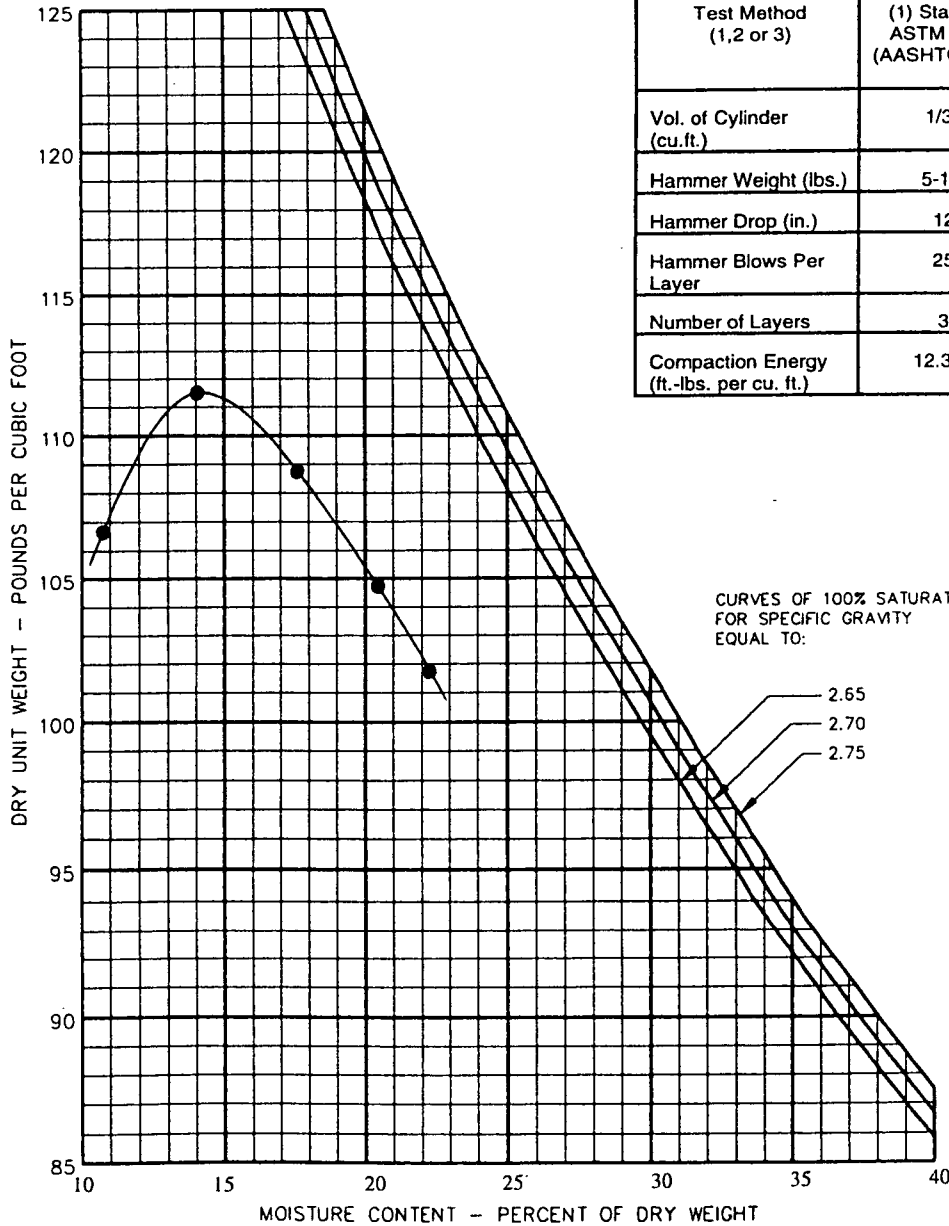
Sample Description:
White to Tan to Orange Clayey Sand

DESCRIPTION OF PROCTOR TESTS

Test Method (1, 2 or 3)	(1) Standard ASTM D698 (AASHTO T-99)	(2) Modified ASTM D1557 AASHTO T-180 4 Inch Mold	(3) Modified ASTM D1557 AASHTO T-180 6 Inch Mold
Vol. of Cylinder (cu.ft.)	1/30	1/30	1/13.333
Hammer Weight (lbs.)	5-1/2	10	10
Hammer Drop (in.)	12	18	18
Hammer Blows Per Layer	25	25	56
Number of Layers	3	5	5
Compaction Energy (ft.-lbs. per cu. ft.)	12.375	56.259	56.259

SUMMARY OF TEST RESULTS

Lab No.	P-2116
Date Tested	8-14-03
Test Method	2
Maximum Dry Density (pcf)	111.5
Optimum Moisture Content (%)	14.1
Wash 200 (%)	42.0



vh

Date: September 8, 2003
W.O. #185595

Report No.: 304769.1

PROJECT# 99-0331-007

GK269

REPORT ON
 TRIAXIAL PERMEABILITY
 AND PERCENT PASSING NO. 200 SIEVE
 (ASTM D-5084 and ASTM C-117)
 (AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: orange to tan to white clayey sand

Location: Stockpile # 2

Date Tested: 8-21-03

Tested By: Greg Kemp

Date Sampled: 8-06-03

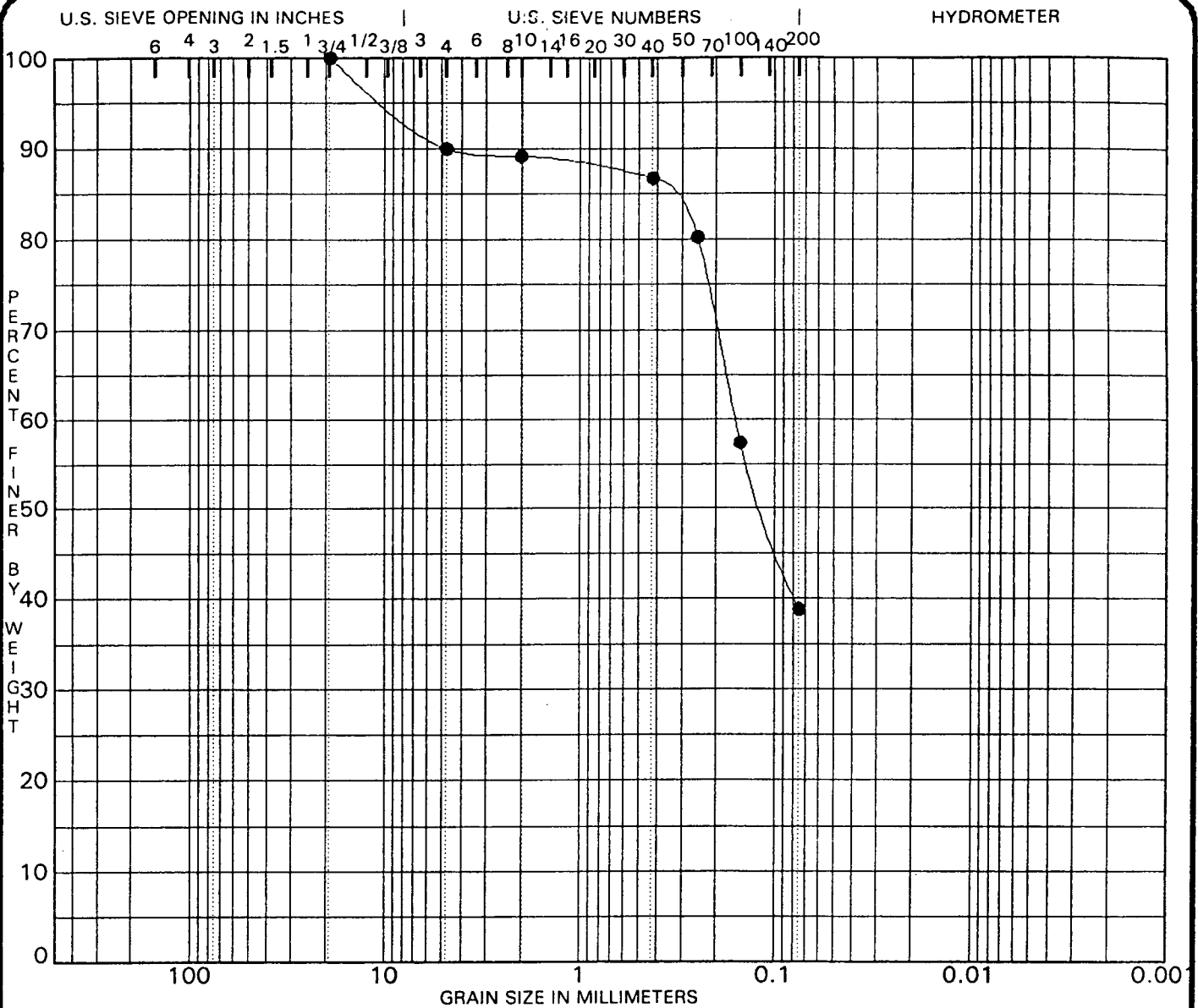
Sampled By: client

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
22.2	38.8	101.3	2.5E-08	7.2E-05

Attention: Miguel Garcia

REMARKS: For informational purposes only



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	MC%	LL	PL	PI	Cc	Cu
● PILE2 0.0		27					

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● PILE2 0.0	19.00	0.16			10.1	51.1	38.8	

PROJECT ENTERPRISE ROAD LANDFILL - FL JOB NO. 99-0331-007/GK269
 DATE 8/8/03

GRADATION CURVES
 UNIVERSAL ENGINEERING SCIENCES
 ORLANDO, FLORIDA

**UNIVERSAL
ENGINEERING SCIENCES**

PROCTOR TEST RESULTS

CLIENT

PROJECT NAME/LOCATION

Hartman & Associates, Inc.
Attn: Miguel Garcia
201 East Pine Street, Suite 1000
Orlando, Florida 32801

Enterprise Road Landfill, Central Florida

PROJECT NO.: 15994-000-00

Sample Location:
Stockpile No. 2, Native Material

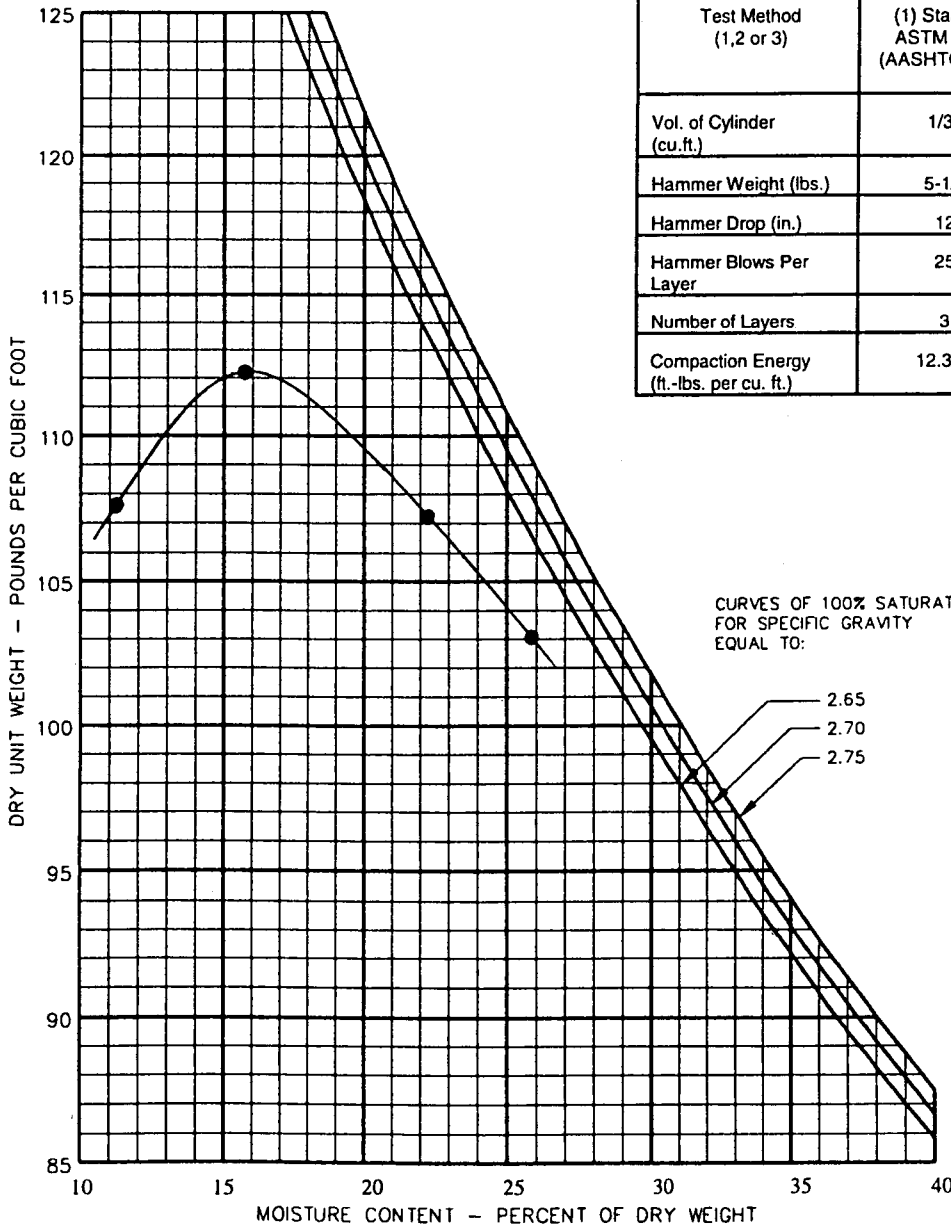
Sample Description:
White to Tan to Orange Clayey Sand

DESCRIPTION OF PROCTOR TESTS

Test Method (1, 2 or 3)	(1) Standard ASTM D698 (AASHTO T-99)	(2) Modified ASTM D1557 AASHTO T-180 4 Inch Mold	(3) Modified ASTM D1557 AASHTO T-180 6 Inch Mold
Vol. of Cylinder (cu.ft.)	1/30	1/30	1/13.333
Hammer Weight (lbs.)	5-1/2	10	10
Hammer Drop (in.)	12	18	18
Hammer Blows Per Layer	25	25	56
Number of Layers	3	5	5
Compaction Energy (ft.-lbs. per cu. ft.)	12.375	56.259	56.259

**SUMMARY OF
TEST RESULTS**

Lab No.	P-2115
Date Tested	8-14-03
Test Method	2
Maximum Dry Density (pcf)	112.2
Optimum Moisture Content (%)	15.8
Wash 200 (%)	38.8

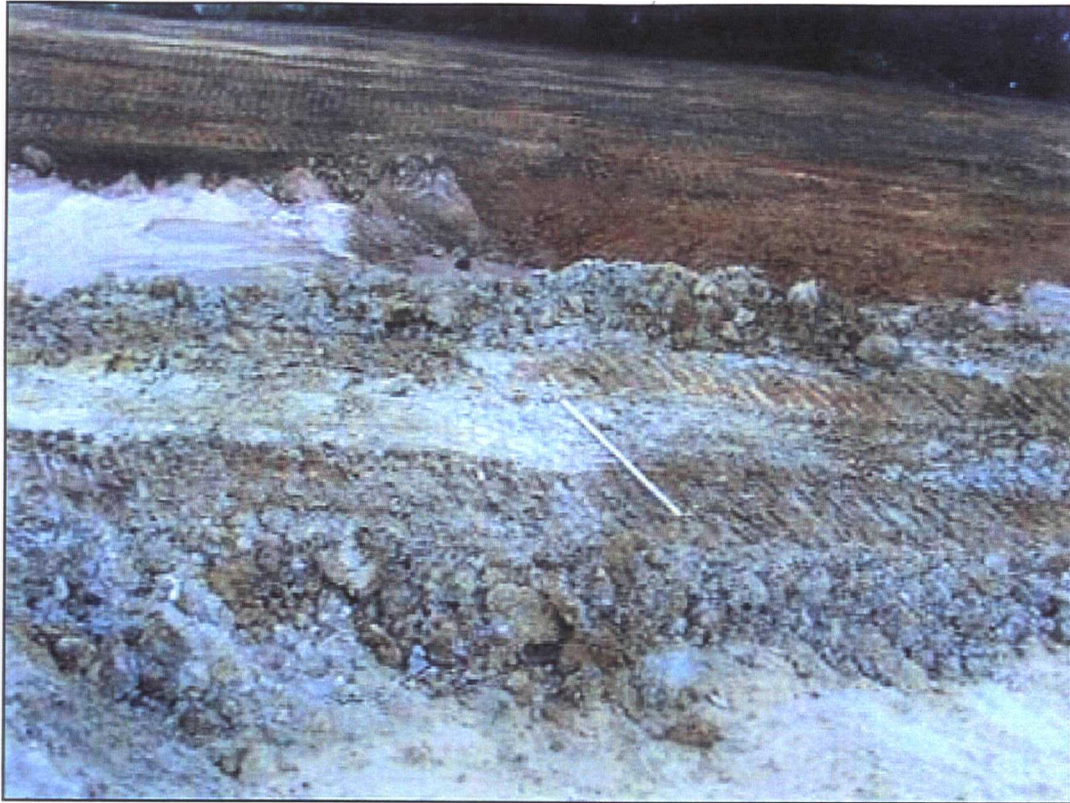


vh

Date: September 8, 2003
W.O. #185595

Report No.: 304766.1

APPENDIX F



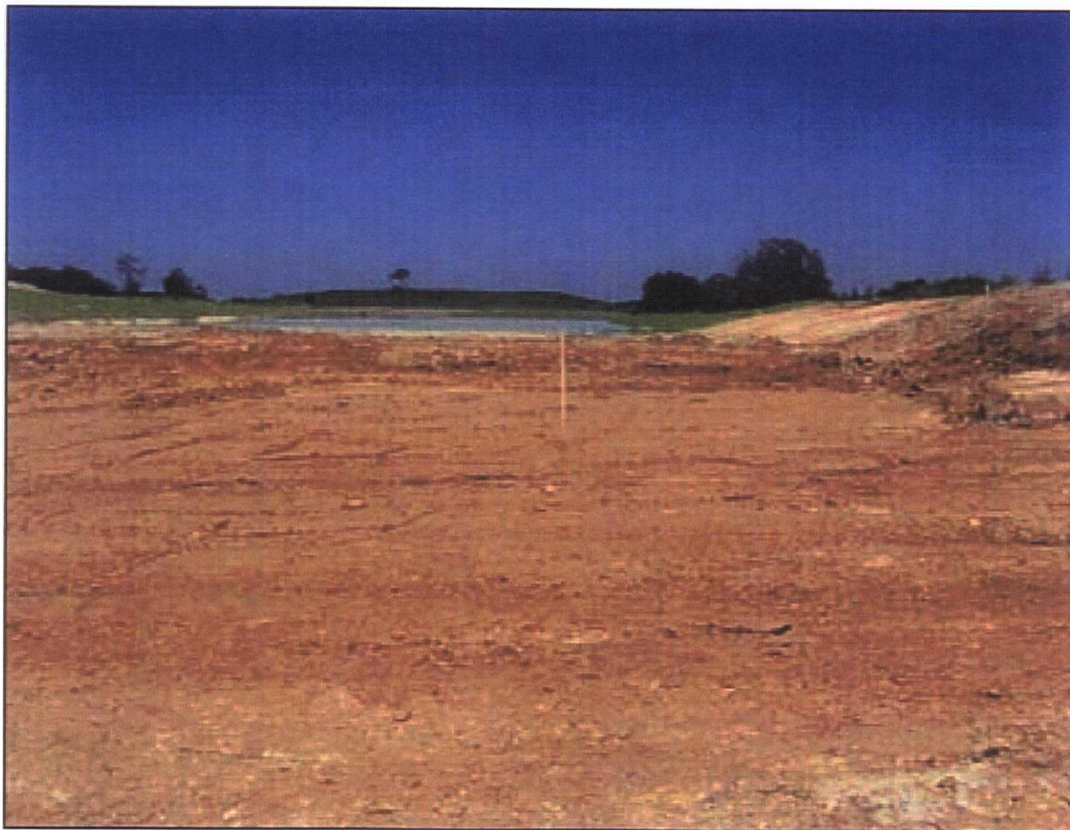
Pit 1 east slope



Pit 1, completed lift 1 looking north



Pit 1, completed lift 2 looking north



Pit 1, completed lift 3 looking north



Pit 1, lift 1 looking north



Pit 1, north slope



Pit 1, south slope



Pit 1, west slope



Pit 2 looking west



Pit 2, completed lift 1 looking west



Pit 2, completed lift 3 looking west



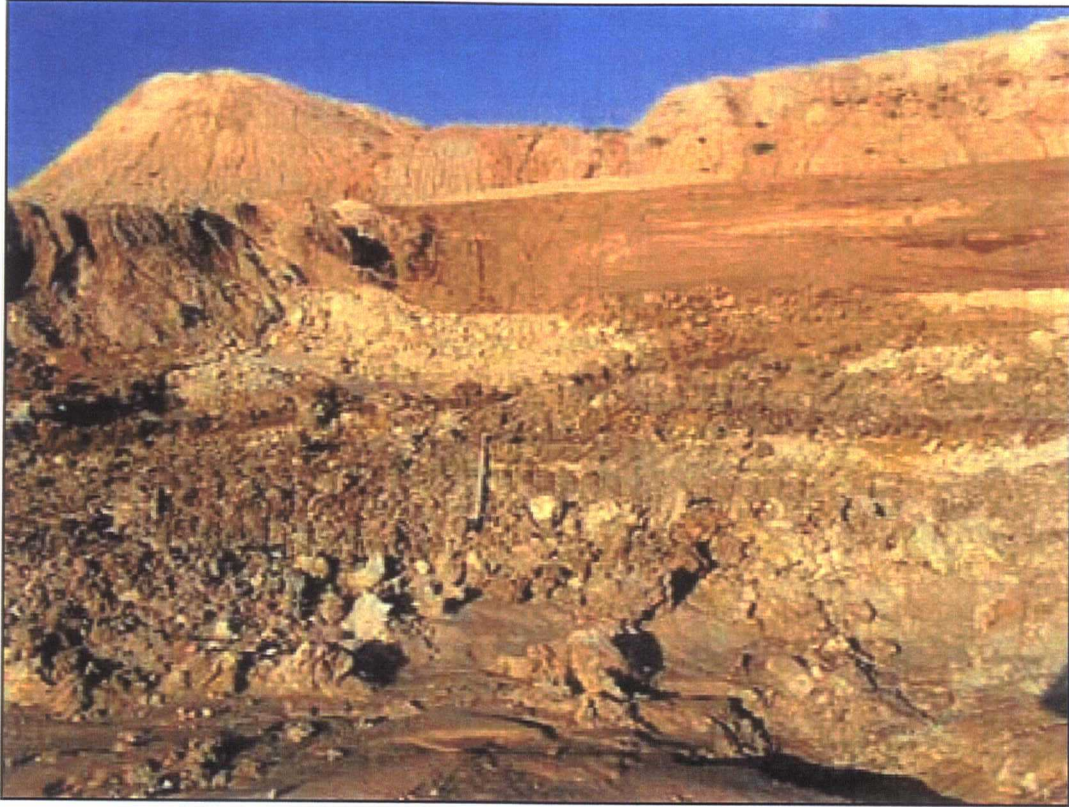
Pit 2, east slope



Pit 2, north slope



Pit 2, south slope



Pit 2, west slope



Pit 3 looking west



Pit 3, completed lift 3 looking west



Pit 3, east slope



Pit 3, north slope



Pit 3, south slope



Pit 3, west slope



Pit 4 looking west



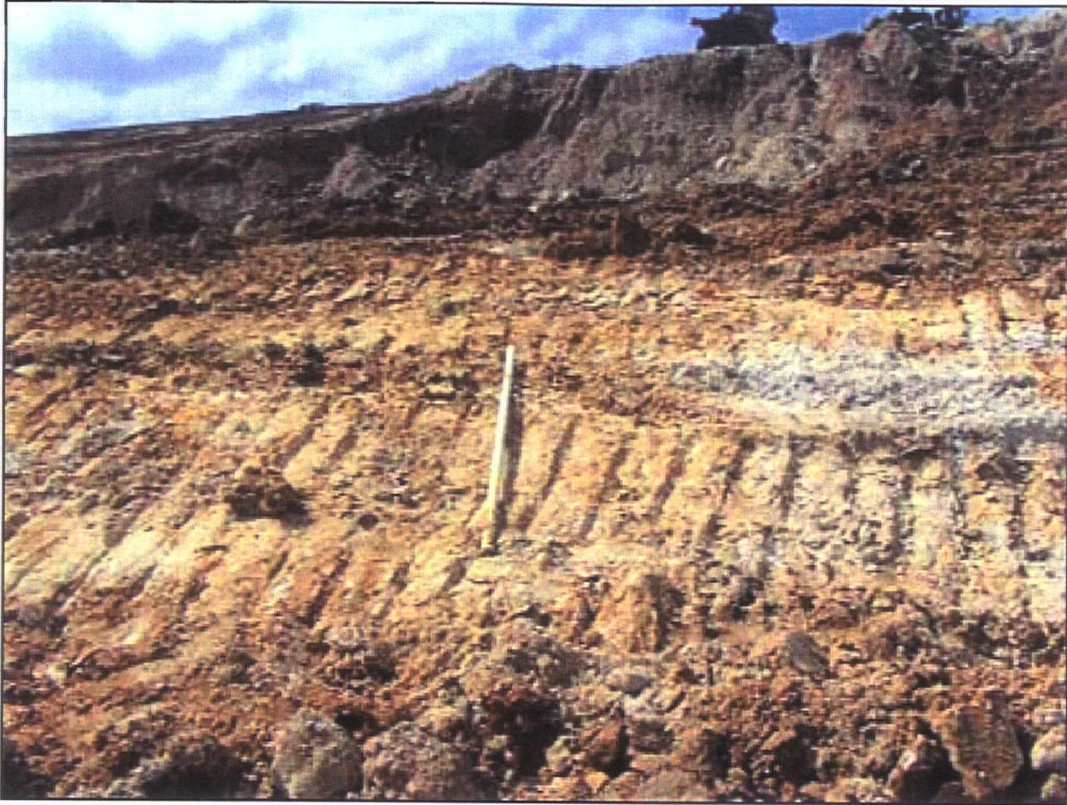
Pit 4, completed lift 3 looking west



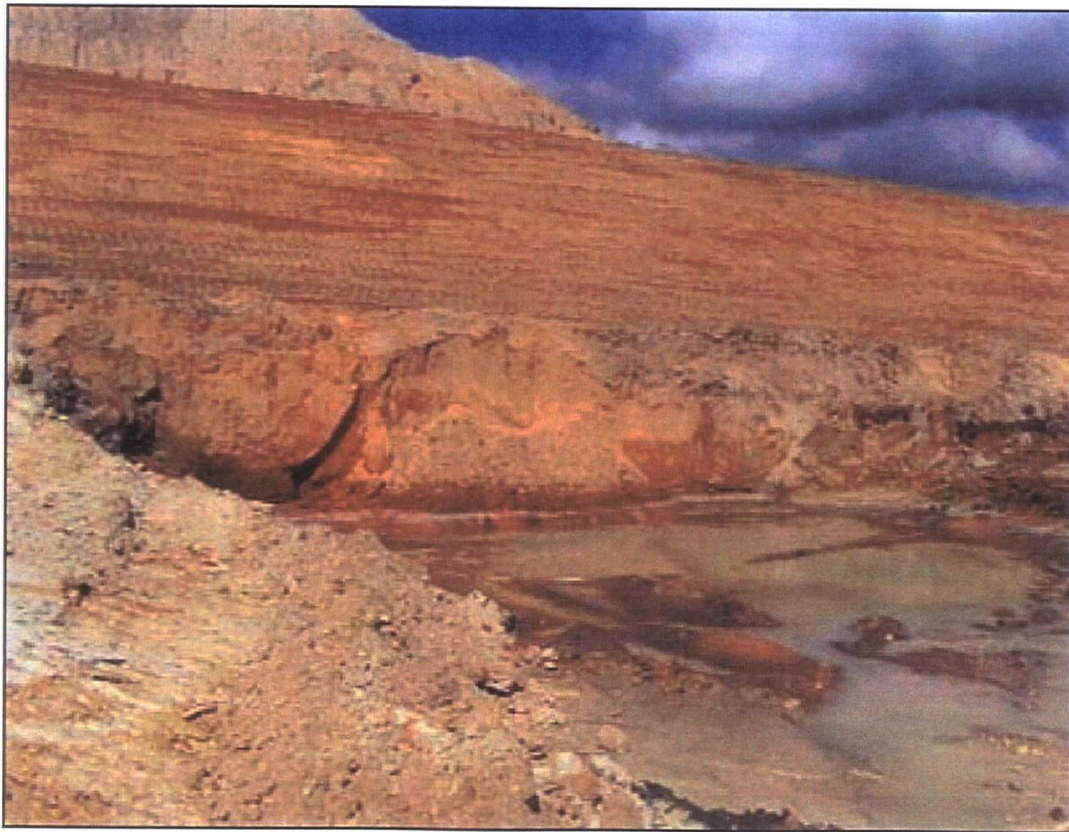
Pit 4, east slope



Pit 4, north slope



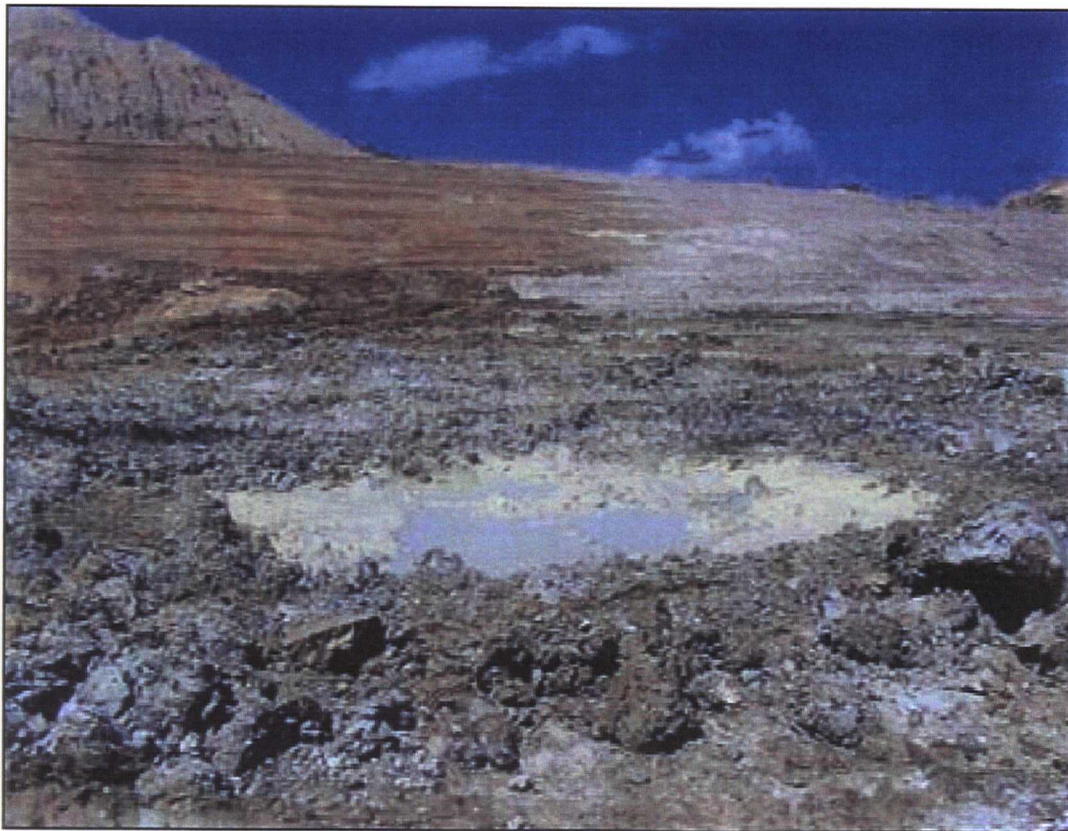
Pit 4, south slope



Pit 4, west slope (excavation will continue west later)



Pit 5 , north slope



Pit 5 looking west



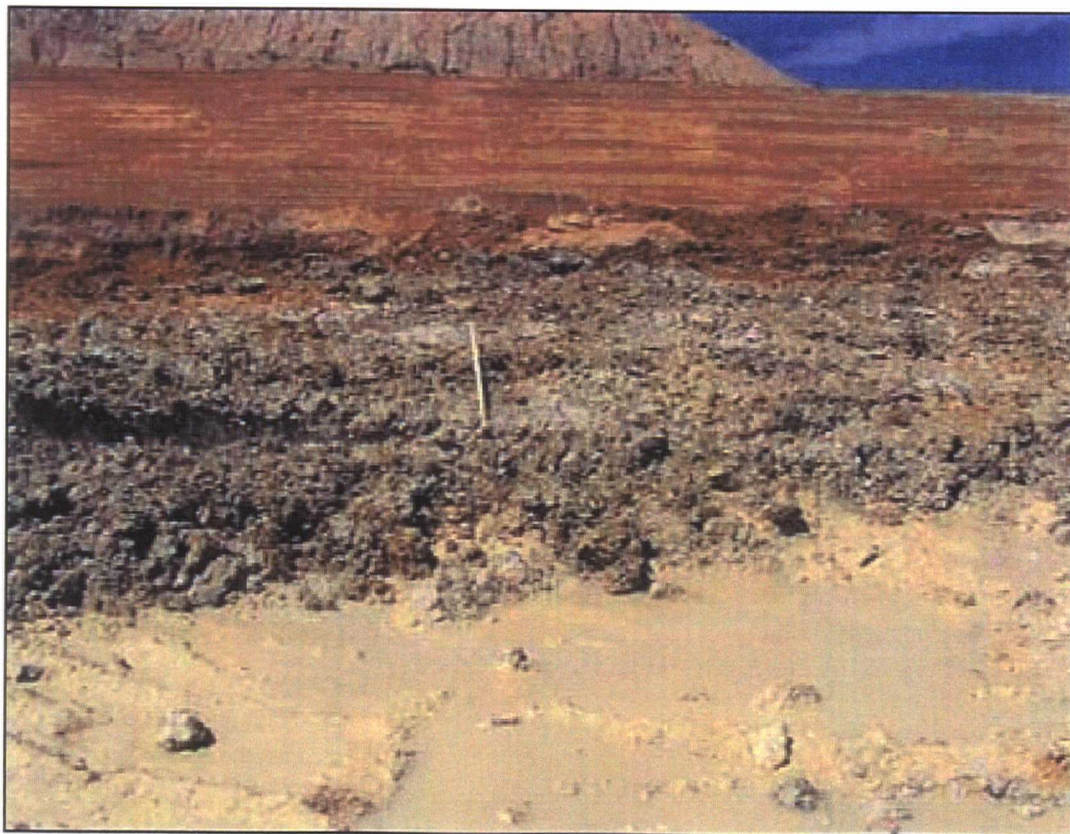
Pit 5, completed lift 3 looking east



Pit 5, east slope



Pit 5, south slope



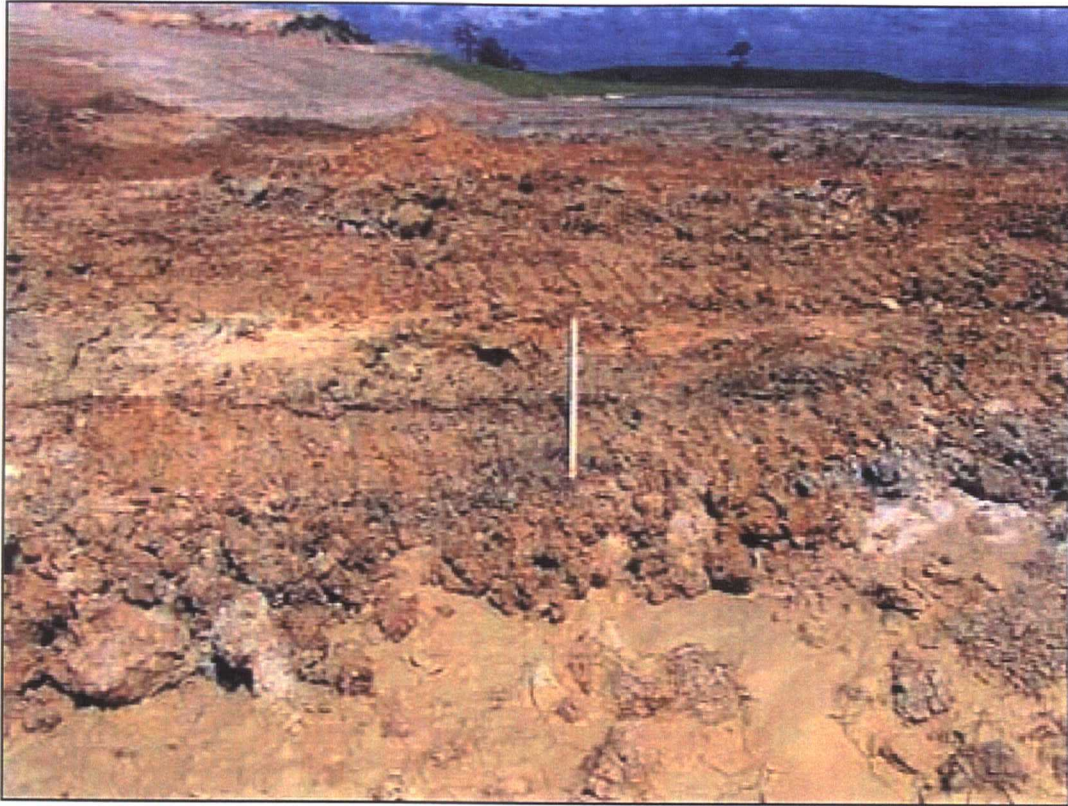
Pit 5, west slope



Pit 6, completed lift 3 looking east



Pit 6, east slope



Pit 6, north slope



Pit 6, south slope



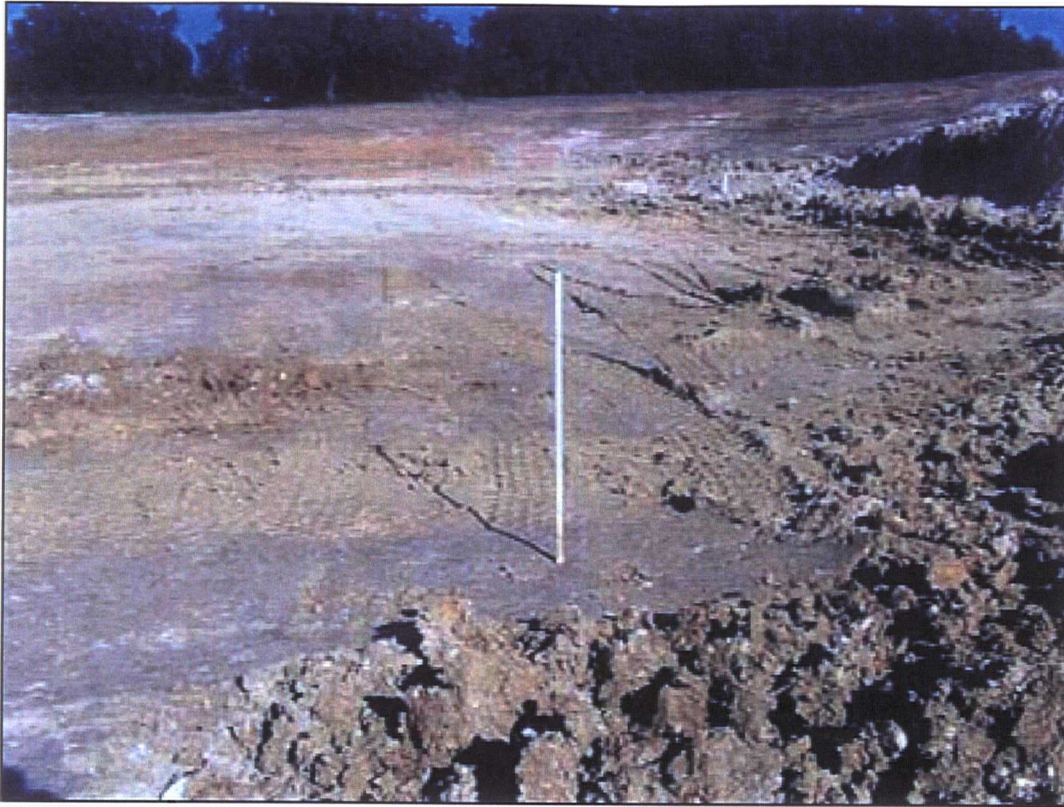
Pit 6, west slope



Pit 7 looking west



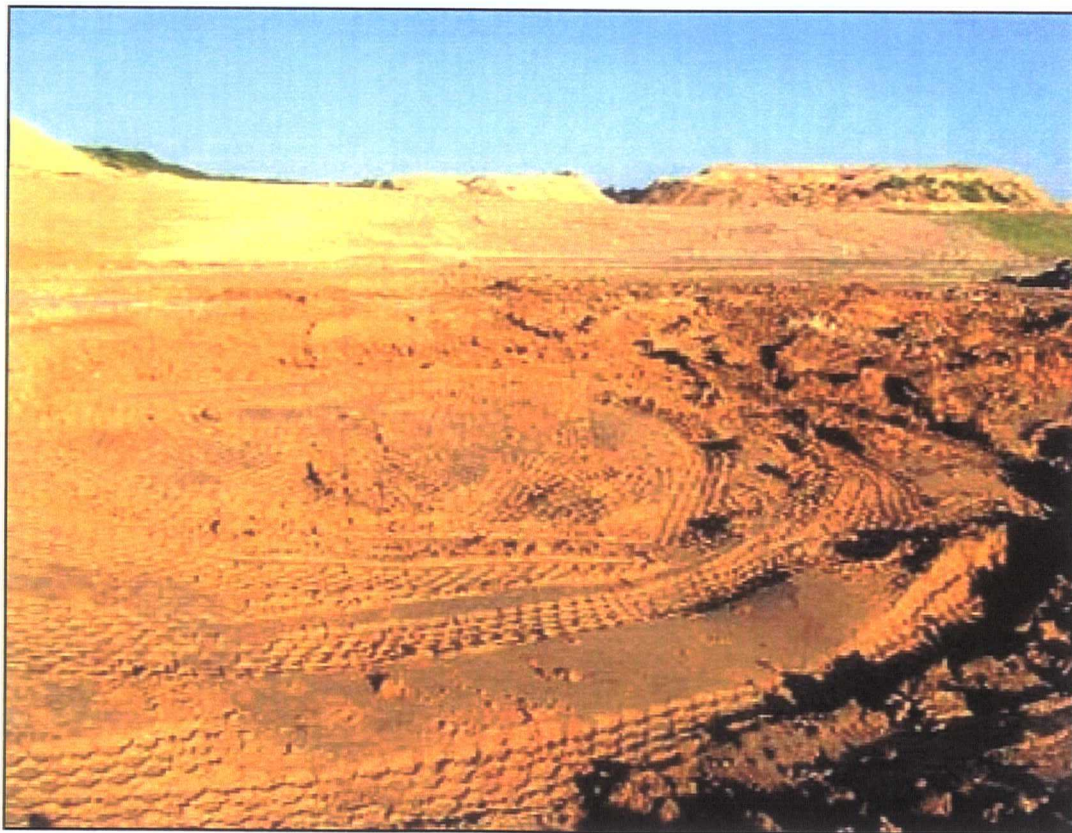
Pit 7, completed lift 1 looking west



Pit 7, completed lift 3 looking east



Pit 8 looking southeast



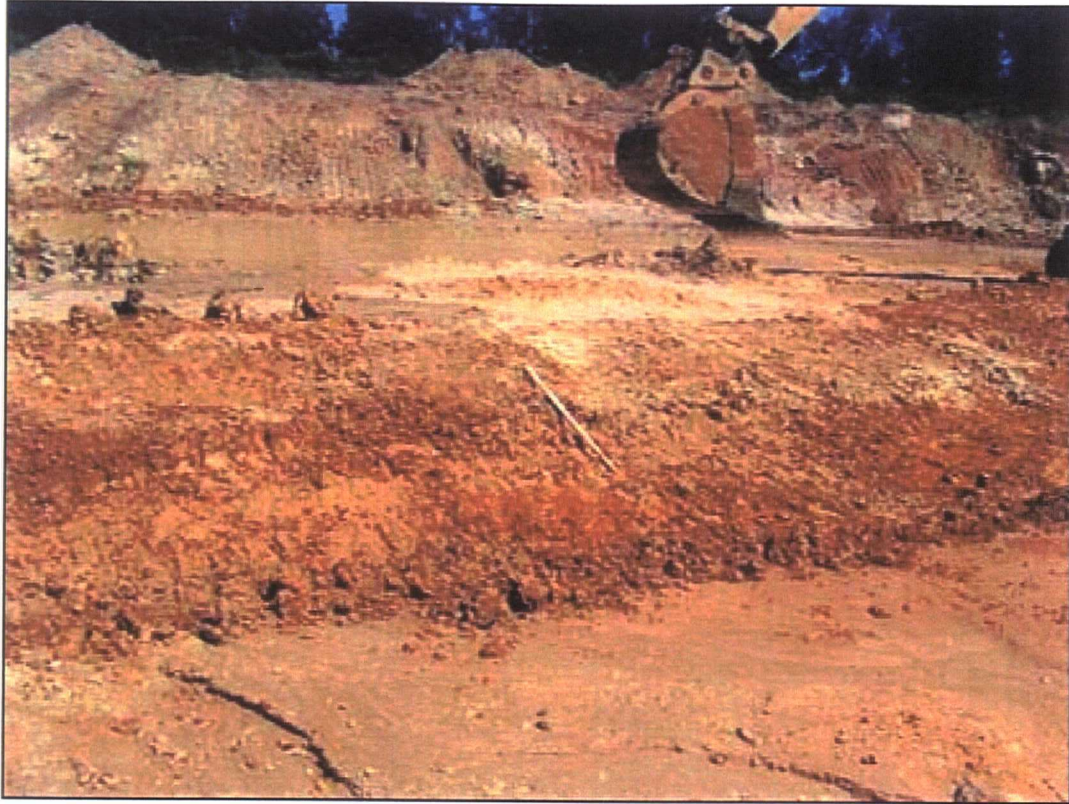
Pit 8, completed lift 1 looking northwest



Pit 8, completed lift 2 looking northwest



Pit 8, completed lift 3 looking east



Pit 8, east slope



Pit 8, north slope



Pit 8, south slope



Pit 8, west slope



Pit 9 looking west (dumped clay on south slope before pics)



Pit 9, completed lift 1 looking northwest



Pit 9, completed lift 3 looking east



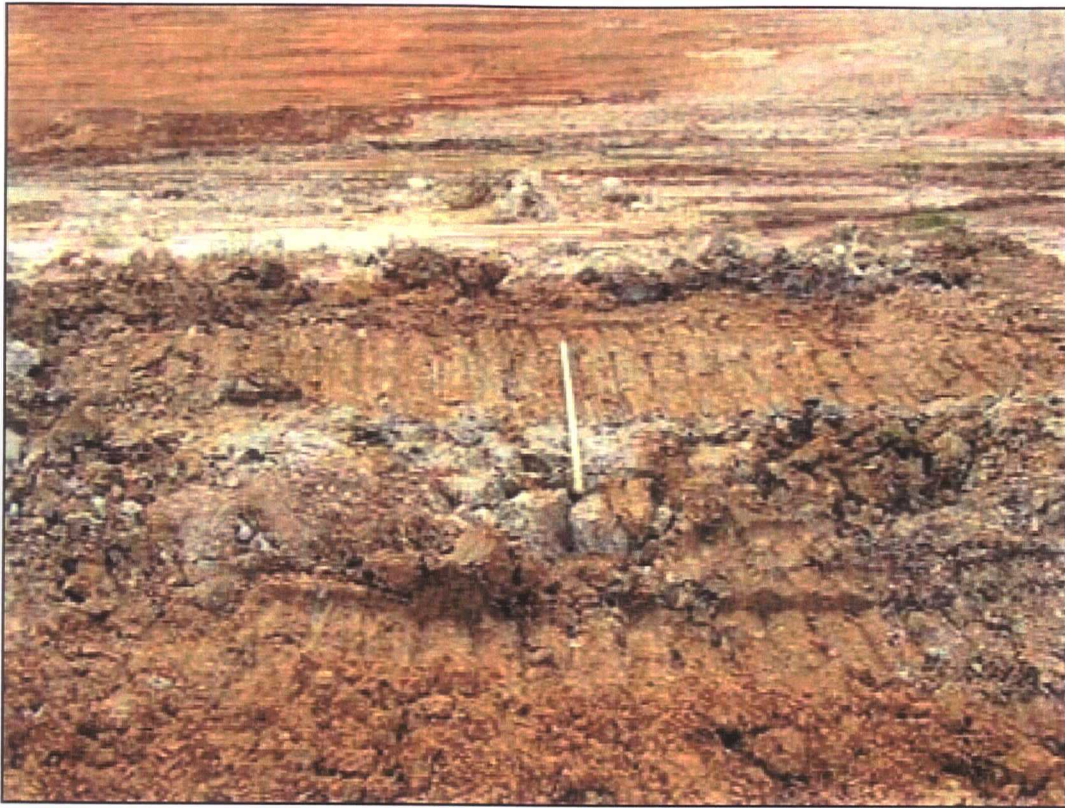
Pit 9, east slope



Pit 9, north slope



Pit 9, south slope



Pit 9, west slope



Pit 10 looking west



Pit 10, completed lift 1 looking west



Pit 10, completed lift 3 looking west



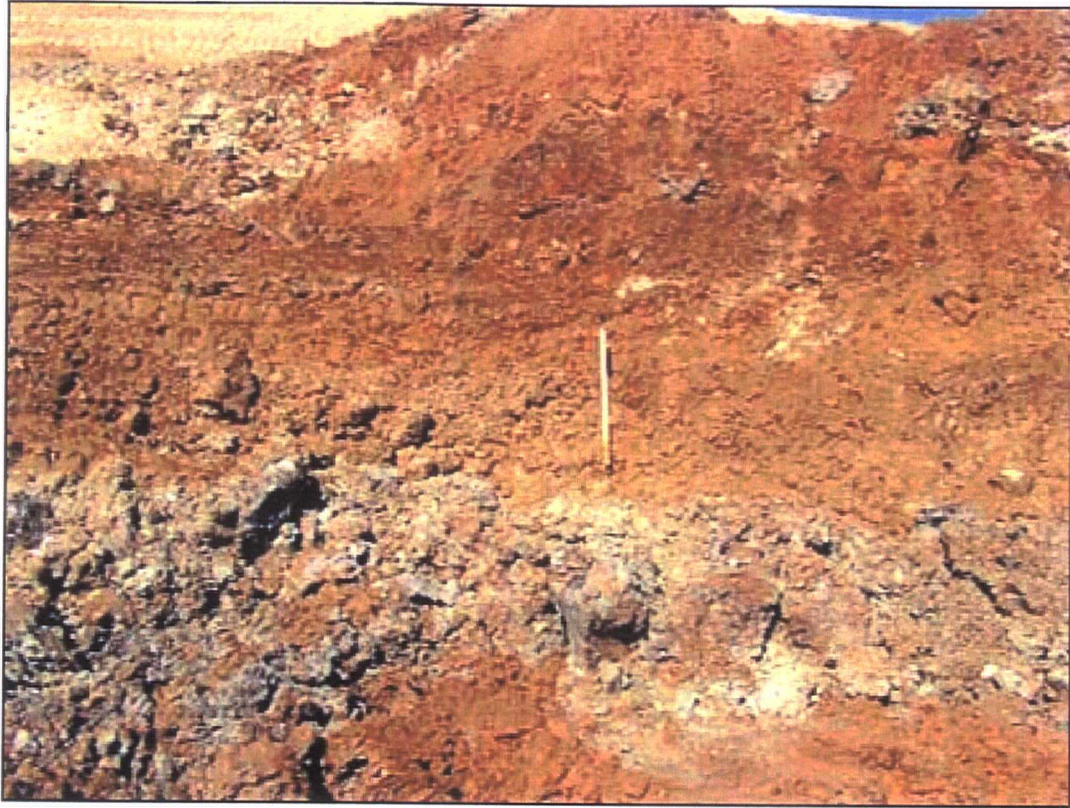
Pit 10, east slope



Pit 10, north slope



Pit 10, south slope



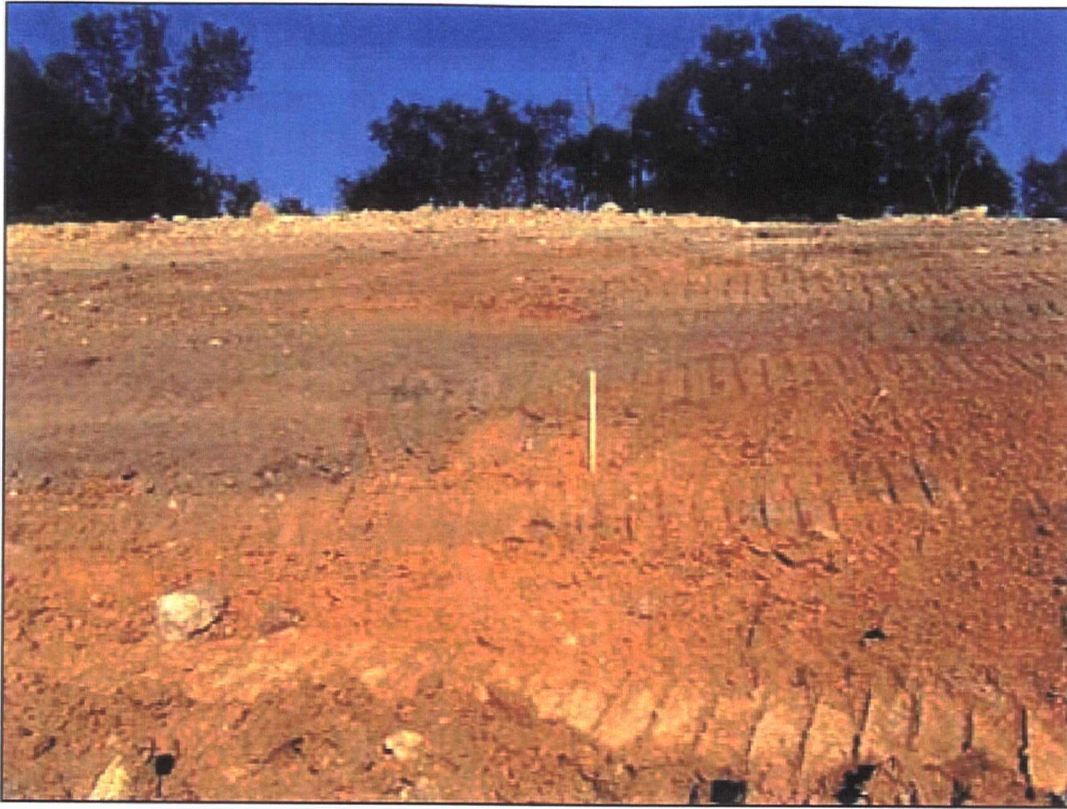
Pit 10, west slope



Pit 11 looking east



Pit 11, completed lift 1 looking east



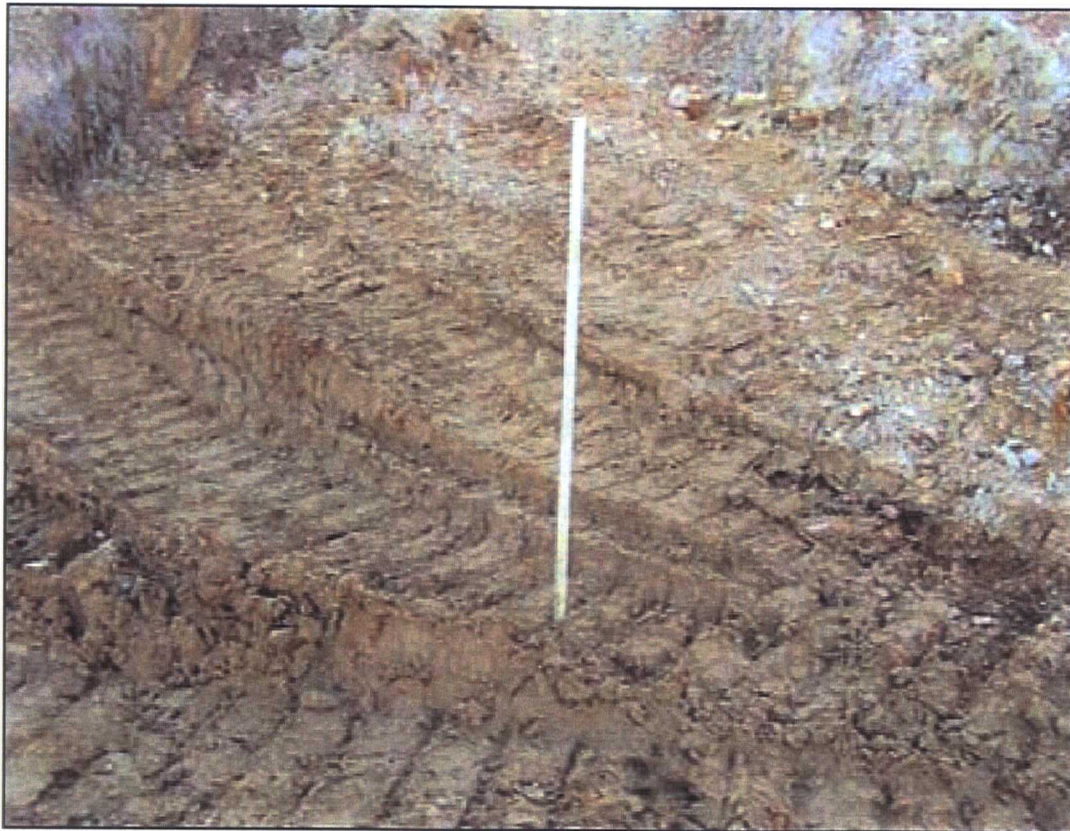
Pit 11, completed lift 3 looking east



Pit 11, east side



Pit 11, north side



Pit 11, south side



Pit 11, west side



Pit 12 looking east



Pit 12, completed lift 1 looking east



Pit 12, completed lift 3 looking east



Pit 12, east side



Pit 12, north side



Pit 12, south side



Pit 12, west side



DCP081-DCP086 Completed Cell one beginning sw corner ending se corner

HARTMAN & ASSOCIATES

FIELD LOG

HAI # 99.0331.007-5

NAME: HEC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
0700	On site. Goodwin on site. Preparing to reslope excavated limestone areas in cell one due to erosion from rain over the weekend. Will number ID pits as we go starting with Pit 1 near SE corner of cell one. Scope of work is to "patch" each excavated limestone area with clay from Stockpile 1 in 3, at least 1" thick lifts, compact with a 40,000 pound bulldozer and sheepfoot vibratory roller to at least 95% compaction and ^{with} optimum moisture 14.1%, in between each lift. Clay lifts will be "tied" into cut marks in slopes. Will photo document as we go.
0730	Began work on first pit in SE corner of cell one. Will maintain separate Field Logs for each pit, see attached.
1020	Ferlin, Universal Engineering on site to conduct density/moisture tests on each lift in each pit. Will use ASTM D-2937 Drive Cylinder method for analysis in the field. Collection device consists of a 6" "shelby tube" and slide hammer.
1230	Dave, Universal Engineering on site. Dave collected sampler from Stockpile 1 to test for new proctor values used in calculating density test results.
1400	Dave off site.
1630	Ferlin completed testing for the day, see attached In-Place Density Test Logs dated 9/17/03. Off site.
1650	Goodwin ceased work for the day. Craig Bryan, Angeles on site. Goodwin brought in ~ 2261 cyds of clay material to day (133 trucks)

HARTMAN & ASSOCIATES

Pit 1
FIELD LOG

HAI# 99.0331.007-5

NAME: HCC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
0730	Resloped sides of pit 1 due to erosion from rain, took pictures of N, E, S, and west slopes and the pit facing west.
0735	Began the installation of first lift using clay from stockpile 1. Spreading clay with bulldozer filling into cut marks in slope. Compacting by running over and over with bulldozer and sheepfoot vibratory roller.
0850	Completed lift 1, Pit 1. Using a 1" PVC pipe, probed thickness to ^(O.M) 12"-18".
1030	Collected density/moisture sample near south end of pit one, density is 94.50%, moisture 13.8%. See attached In-Place Density Tests Log.
1035	Collected O/M sample near north end of pit one, density is 96.2%, moisture 13.4%.
1250	Dade, Universal collected Shelby tube Pit 1.
1505	Began installation of second lift in same manner as first.
1520	Completed second lift, Pit 1. Compacting with bulldozer and sheepfoot vibratory roller. thickness is ~ 12"-14".
1545	Collected O/M sample near south end of pit 1, density is 95.1%, moisture 13.8%.
1547	Collected O/M sample, lift 2 near north end of pit 1, density is 95.4%, moisture 13.6%. See attached In-Place Density Tests Log.
1550	Ferlin collected Shelby tube lift 2.
	9/18/03
0800	Completed lift 3, pit 1, compacted with bulldozer and sheepfoot vibratory roller. Thickness is ~ 14"-16".

Note: O/M samples were collected using a 6" Shelby tube and slide hammer. Samples were analyzed by ASTM D-2937
dry cylinder method.

HARTMAN & ASSOCIATES

Pit 2
FIELD LOG

HAI# 99.0331.007-5

NAME: HLC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
0830	Reopened pit 2, took pictures of slopes. Pumping water from pit.
0900	Began installation of lift 1 using clay from stockpile 1. Spreading clay with bulldozer lying into cut water in slopes. Compacting by running over and over with bulldozer and vibratory roller.
1015	Completed installation of lift one, thickness is ~12" - 18" thick.
1500	Collected O/M sample from south end of pit 2, density is 95.1%, moisture is 14.8%.
1505	Collected O/M sample near north end of pit 2, density is 94.6%, moisture is 14.8%, see attached In-Place Density Tests Log.
1545	Completed installation of lift 2, same manner as lift 1. Thickness is ~12" - 14".
1550	Collected O/M sample near north ^{east} end of pit 2, density is 97.8% 96.7%, moisture is 14.0% 14.4%.
1554	Collected O/M sample ^{lift 2} near south ^{west} end of pit 1, density is 97.8%, moisture 14.0%. See attached In-Place Density Tests Log.
	9/18/03
^{HLC} 0835	Completed lift 3, pit 2. Thickness is ~14" - 18" thick .
1135	Collected O/M sample lift 3 near west end of pit 2, density is 96.2%, moisture 13.4%.
1136	Collected O/M sample lift 3 near east end of pit 2, density is 96.2%, moisture 13.4%. See attached In-Place Density Tests Log.

HARTMAN & ASSOCIATES

Pit 3
FIELD LOG

HAI # 99.0331.007-5

NAME: HLC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
1000	Redloped Pit 3, took pictures of slopes and pit.
1020	Began installation of lift 1 using clay from stockpile 1. Spreading clay with bulldozer into cut marks on slopes. Compacting by running bulldozer and sheepsfoot vibratory roller over and over lift area.
1045	Completed installation of lift 1, Pit 3, thickness is ~18".
1055	collected O/M sample lift 1, density is 96.7%, moisture is 14.8%
1400	Bulldozer operator completely buried buried pit 3 while working on pit 1. Had him removed material above lift 1.
1445	Completed lift 2, Pit 3, same manner as lift 1, thickness: ~18".
1452	Collected O/M sample lift 2, density is 97.5%, moisture 14.0%. See attached In-Place Density Test Log.
	9/18/03
0845	Completed lift 3, Pit 3. Compacted with bulldozer and sheepsfoot and smooth vibratory roller. Thickness is ~18".
1137	Collected O/M sample lift 3, Pit 3, density is 95.2%, moisture 13.4%. See attached In-Place Density Test Log.

HARTMAN & ASSOCIATES

Pit 4
FIELD LOG

HAI # 99.0331.007-5

NAME: HCC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
1115	Re-sloped Pit 4, took pictures of pit and slopes.
1120	Began installing lift 1 using clay from stock pile 1. Spreading clay with bulldozer into cut marks on slopes. Compacting by running bulldozer and sheepfoot vibratory roller over and over lift area.
1230	Completed lift 1 up to west berm constructed just below bottom of cell one western slope. Thickness is ~14" - 18".
1415	Collected O/M sample lift 1 near east end of Pit 4, density is 96.6%, moisture 14.6%. Excavator moving to west side of pit 4 to continue excavation up to 1' into cell one waste slope. Will continue installing lift one once completed.
1445	Completed excavating pit 4 to western slope of cell one. Will pack with clay up against slope wall to tie in pit 10.
1455	Began installation of lift 2 pit 4 in same manner as lift 1.
1550	Completed installation of lift 2, pit 4. Compacting with bulldozer and sheepfoot vibratory roller. Thickness is ~18".
1600	Collected O/M sample, lift 2, density is 96.9%, moisture 13.8%. See attached In-Place Density Test Logs.
	9/18/03
0925	Completed lift 3, pit 4. Compacted with bulldozer, sheepfoot and smooth vibratory roller. Thickness is ~18".
1148	Collected O/M sample near east end of pit 4, density is 95.6%, moisture 13.2%. See attached In-Place Density Test Logs.

HARTMAN & ASSOCIATES

Pit 8

FIELD LOG

1 of 2

HAI # 99.0331.007

NAME: HLC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
1510	Moved excavator to pit 8 and began bailing water from pit using front loader bucket as a bailer.
1620	Regloped pit 8 and took pictures.
1625	Began installing lift 1 using clay from stockpile 1. Spreading clay with bulldozer + tamping into cut marks on slope. Compacting by running bulldozer and sheep-foot vibratory roller over and over lift area.
1650	Completed installation of lift 2. Thickness is ~ 12"-14" thick.
	9/18/03
1045	Collected O/M sample lift 1, density is 97.1%, moisture 14.0%, location of sample was near east end of pit 8.
1046	collected O/M sample lift 1 near west end of pit 8, density is 95.8%, moisture 13.4%. See attached In-Place Density Tests logs.
1030	Completed lift 2, pit 8, compacted with bulldozer, sheepfoot and smooth vibratory roller. thickness is ~ 18".
1155	Collected O/M sample lift 2 near east end of pit 8, density is 96.3%, moisture 13.8%.
1230	Completed lift 3, pit 8, compacted with bulldozer, sheepfoot vibratory roller and smooth vibratory roller.
1158	Collected O/M sample ^{lift 2} near west end of pit 8, density was 96.2%, moisture 14.2%.
1315	Collected O/M sample ^{lift 2} near west end of pit 8, density is 97.0%, moisture 13.8%.
1317	Collected O/M sample lift 3 near east

* Late entry

HARTMAN & ASSOCIATES

Pit 10
FIELD LOGHAI # 99.0331.007-5NAME: HLC

PROJECT

NAME: Enterprise Road LandfillDATE: 9/18/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
1020	Moved excavator to pit 10 and began excavating sandy area in and around pit to tie into clay.
1050	Completed excavation of pit 10.
1055	Sloped pit 10, took pictures.
1100	Began installation of lift 1 using clay from stockpile. Spreading clay with bulldozer, tying into cut marks on slopes. Compacting by running bulldozer and sheep-foot vibratory roller over and over lift area.
1100 1115	Completed lift 1, Pit 10. Thickness is ~18".
1118	Collected O/M sample, lift 1 Pit 10, density is 96.4%, moisture 13.6%. See attached In-Place Density Test Logs.
1200	Completed lift 2, Pit 10. Compacted with bulldozer and sheep-foot vibratory roller. Thickness is ~16"-18".
1214	Collected O/M sample, lift 2, Pit 10, density is 95.4%, moisture 13.6%.
1415	Completed lift 3, Pit 10. Compacted with bulldozer, sheep-foot and smooth vibratory roller. Thickness is ~20".
1425	Collected O/M sample, lift 3, Pit 10, density is 97.1%, moisture 13.6%. See attached In-Place Density Test Logs.

HARTMAN & ASSOCIATES

Pit 11
FIELD LOG

HAI # 99.0331.007-5

NAME: HLC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
1410	Moved excavator to Point Pit 11. Excavated pit 11 until slopes/sides had into clay. 9/18/03
0745	Installed lift 1, Pit 11 using clay from stock pile 1. Pushed clay into pit with bulldozer and up slope on east side. Since pit is cut into east slope of cut and since pit is cut into the east slope of cell one, clay will be tied into sides of cut to north and south and slopes east and west. Compacting by running bulldozer over and over lift area. Sheep foot vibratory roller can not make it up slope due to angle, lift compact with bulldozer only. Thickness is ~18".
1109	Collected O/M sample lift 1, Pit 11, density is 97.3%, moisture 13.8%. See attached In-Place Density Tests Logs.
1235	Completed lift 2, Pit 11. Compacted with bulldozer only since sheep foot vibratory roller can't make it up the slope. Thickness is ~18".
1240	Collected O/M sample, lift 2, Pit 11, density is 95.7%, moisture 13.6%.
1450	Completed lift 3, Pit Pit 11. Compacted with bulldozer only.
1501	Collected O/M sample, lift 3, Pit 11, density is 95.8%, moisture 13.8%. See attached In-Place Density Tests Logs.
	* near center of pit,

HARTMAN & ASSOCIATES

Pit 12

FIELD LOG

HAI# 99.0331.007-5

NAME: HCC

PROJECT

NAME: Enterprise Road Landfill

DATE: 9/17/03

PROJECT

LOCATION: Dade City, FL

TIME	COMMENTS
1430	Moved excavator to Pit 12. Excavated pit 12 until slopes/sides had into clay.
	9/18/03
0810	Installed lift 1, Pit 12 using clay from stockpile 1. Pushed clay into pit with bulldozer and up slope on east side. Since pit is cut into the east slope of coal ore, clay will be tided into vertical sides to the north and south and slopes to the east and west. Thickness ~ 18".
1110	Collected O/M sampler lift 1, Pit 12. Pit 12, density is 96.40%, moisture 14.0%. See attached In-Place Density Test Logs.
1240	Completed lift 2, Pit 12. Compacted with bulldozer only. Thickness ~ 20".
1242	Collected O/M sample, lift 2, Pit 12, density 96.20%, moisture 13.4%.
1455	Completed lift 3, Pit 12. Compacted with bulldozer only. Thickness ~ 18".
1502	Collected O/M sample, lift 3, Pit 12 near center of pit, density is 96.20%, moisture 13.4%. See attached In-Place Density Test Logs.

APPENDIX G



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences •
Construction Materials Testing • Threshold Inspections

Field Report of IN-PLACE DENSITY TESTS

9802 Palm River Road • Tampa, FL 33619-4438 • (813) 740-8506 • FAX (813) 740-8706

Client: Hartman + Assoc

Project: Enterprise Landfill

Area Tested: Pit 1, 2, 3, 4 + 6

- Fill
- Backfill
- Native
- Limerock
- Soil Cement
- Stabilization

Reference Datum: 0 = Top Bottom Springline Pipe Native Fill Storm Inlet Structure Foundation Footing Sanitary Structure

Type of Test: ASTM D-2937 Drive Cylinder Method ASTM D-1557
 ASTM D-2922 Nuclear Method ASTM D-698
 ASTM D-1556 Sand Cone Method AASHTO T180
 ASTM D-558 Soil Cement Field Proctor AASHTO T99
 AASHTO _____

Report Left on Site: Yes — If Yes, to Whom: DALE W/ HARTMAN + ASSOC
 No — If No, Why Not: _____

Penetration Resistance Yes Satisfactory Unsatisfactory
 N/A

DO/DO NOT meet the minimum 95.0 % Date Tested: 9/17/03

Remarks: _____

Location of Test	Volume of Hole (cu. ft.)	Weight of Soil from Hole (lbs.)	Container Weight (lbs.)	Wet Density (pcf)	Percent Moisture (%)	Dry Density (pcf)	Maximum Dry Density (pcf)	Optimum Moisture (pcf)	Percent Maximum Density (%)	Base Depth (in.)	Stab. Depth (in.)
<u>10'N + 10'W of SE corner PIT 1</u> ⁺	[Patterned]	[Patterned]	[Patterned]	[Patterned]	13.8	105.6	111.8		94.5		
<u>10'S + 10'W of NE corner PIT 1</u> ⁺					13.4	107.6		96.2			
<u>20'N + 10'E of SW corner PIT 2</u> ⁺					14.8	106.3		95.1			
<u>10'S + 20'W of NE corner PIT 2</u> ⁺					14.8	105.8		94.6			
<u>20'N + 15'W of SE corner PIT 3</u> ⁺					14.8	108.2		96.7			
<u>20'N + 20'W of SE corner PIT 4</u> ⁺					14.6	108.0		96.6			
<u>20'N + 10'W of SE corner PIT 6</u> ⁺					14.4	107.1		95.7			
<u>40'N + 10'W of SE corner PIT 1</u> ⁺²					13.8	106.3		95.1			
<u>10'N + 20'W of SE corner PIT 1</u> ⁺²					13.6	106.6		95.4			

Technician: VEST



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences • Construction Materials Testing • Threshold Inspections

Field Report of IN-PLACE DENSITY TESTS

9802 Palm River Road • Tampa, FL 33619-4438 • (813) 740-8506 • FAX (813) 740-8706

Client: HARTMAN + ASSOC.

Project: Enterprise LandFILL

Area Tested: Pits #1 thru #12

- Fill
- Backfill
- Native
- Limerock
- Soil Cement
- Stabilization

Reference Datum: 0 = Top Bottom Springline "of" Pipe Native Fill Storm Inlet Structure Foundation Footing Sanitary Structure

Type of Test: ASTM D-2937 Drive Cylinder Method ASTM D-1557 ASTM D-2922 Nuclear Method ASTM D-698 ASTM D-1556 Sand Cone Method AASHTO T180 ASTM D-558 Soil Cement Field Proctor AASHTO T99 AASHTO _____

Report Left on Site: Yes — If Yes, to Whom: DATE w/ Hartman + Assoc. No — If No, Why Not: _____

Penetration Resistance Yes Satisfactory Unsatisfactory N/A

95 % DO/DO NOT meet the minimum 95 % Date Tested: 9/18/03

Remarks: _____

Location of Test	Volume of Hole (cu. ft.)	Weight of Soil from Hole (lbs.)	Container Weight (lbs.)	Wet Density (pcf)	Percent Moisture (%)	Dry Density (pcf)	Maximum Dry Density (pcf)	Optimum Moisture (pcf)	Percent Maximum Density (%)	Base Depth (in.)	Stab. Depth (in.)
<u>10:45 AM</u> Pit #8 ⁺ 20'N 5'W of SE corner					14.0	108.6	111.8		97.1		
<u>10:46 AM</u> Pit #8 ⁺ 20'N 10'E of SW corner					13.4	107.1			95.8		
<u>10:49 AM</u> Pit #9 ⁺ 5'N + 10'E of SW corner					13.6	107.7			96.3		
<u>11:08 AM</u> Pit #7 ⁺ 10'N + 10'W of SE corner					13.4	107.9			96.5		
<u>11:09 AM</u> Pit #11 ⁺ 10'N + 15'E of SW corner					13.8	108.8			97.3		
<u>11:10 AM</u> Pit #12 ⁺ 15'S + 10'E of NW corner					14.0	107.7			96.4		
<u>11:18 AM</u> Pit #10 ⁺ 15'N + 10'E of SW corner					13.6	107.8			96.4		
<u>11:25 AM</u> Pit #2 ⁺ 30'N + 10'W of SE corner					13.4	108.8			97.3		
<u>11:26 AM</u> Pit #2 ⁺ 30'N + 15'E of SW corner					13.2	108.9			97.4		

Technician: VEST

APPENDIX H

VES PROJECT # 80010-007-01

GK274

H+A PROJECT # 99-331, 007-74

REPORT ON
TRIAXIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Landfill

Soil Description: orange to tan clayey sand

Location: Pit 1 / First Lift

Date Tested: 10-01-03

Tested By: Greg Kemp

Date Sampled: 9-18-03
Ordered

Sampled By: VES Tampa / Drilling Dept.

Ordered By: Dave Barnett

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
20.7	40.6	103.4	8.2E-08	2.3E-04

Attention: Miguel Garcia & Luke

H+A

VES TAMPA

REMARKS: For informational purposes only.

VES PROJECT # 80010-007-01

GK274

H/A PROJECT # 99-331 207-74

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Land Fill

Soil Description: orange to tan sandy clay

Location: Pit 1, Second Lift

Date Tested: 10-01-03

Tested By: Greg Kemp

Date Sampled:
Ordered: 9-18-03

Sampled By: VES Tampa / Drilling Dept.
Ordered by: Dave Barnett

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
45.9	75.3	76.2	1.9 E-08	5.0 E-05

Attention: Miguel Garcia and Luke
H+A VES Tampa

REMARKS: For informational purposes only.

UES PROJECT # 80010-007-01

H+A PROJECT # 99-331.007-T4

GK274

REPORT ON
TRIAxIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117)
(AASHTO T-11)

Client: Hartman and Associates

Project: Enterprise Road Land Fill

Soil Description: tan to orangish-brown sandy clay

Location: Pit 1 / Third Lift

Date Tested: 9-30-03

Tested By: Greg Kemp

Date Sampled: 9-22-03

Sampled By: UES TAMPA/DRILLING DEPT.

Ordered

Engineer: D. Barnett

TEST RESULTS

Moisture Content (%)	Percent Passing No. 200 Sieve	Dry Unit Weight (Pcf)	Permeability	
			K (cm/s)	K ft/day
30.1	56.8	85.2	4.6E-08	1.3E-04

Attention: Miguel Garcia and Luke

H+A

UES TAMPA

REMARKS: For informational purposes only.

APPENDIX I

**GROUNDWATER AND TEMPORARY POND ELEVATIONS
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
DADE CITY, FLORIDA**

Location	TOC Elevation, ft NGVD	Depth to		Water Level, ft		Depth to Water,		Water Level,		Depth to Water,		Water Level,	
		Water, ft BTOC	Water, ft BTOC	NGVD	ft BTOC	ft NGVD	ft BTOC	ft NGVD	ft BTOC	ft NGVD	ft BTOC	ft NGVD	ft BTOC
		June 30, 2003	June 30, 2003	June 30, 2003	July 8, 2003	July 8, 2003	July 8, 2003	July 17, 2003	July 17, 2003	July 17, 2003	July 17, 2003	August 4, 2003	August 4, 2003
MW-1	116.71	41.93	74.78	41.12	75.59	40.25	76.46	39.45	77.26				
MW-1B	174.48	100.05	74.43	99.30	75.18	99.02	75.46	98.53	75.95				
MW-5A*	86.74	5.69	81.05	7.58	79.16	7.53	79.21	7.63	79.11				
MW-5B	85.70	11.37	74.33	10.65	75.05	10.36	75.34	9.86	75.84				
MW-6	88.65	13.96	74.69	13.23	75.42	17.16	71.49	12.62	76.03				
MW-7A	92.46	17.04	75.42	16.41	76.05	16.64	75.82	16.16	76.30				
MW-7B	93.24	18.87	74.37	18.16	75.08	17.87	75.37	17.35	75.89				
MW-8*	100.10	18.97	81.13	19.19	80.91	21.93	78.17	22.40	77.70				
MW-9	108.00	Dry	-	Dry	-	Dry	-	Dry	-				
MW-10*	111.62	30.40	81.22	25.56	86.06	33.02	78.60	33.76	77.86				
MW-11	104.45	-	-	-	-	-	-	-	-				
P-2**	98.73	22.31	74.52	21.51	75.32	21.27	75.56	22.43	76.30				
P-4	84.55	6.69	77.86	8.48	76.07	8.17	76.38	7.82	76.73				
P-5	94.56	NM	-	19.45	75.11	19.16	75.40	AB	-				
P-6	94.16	19.63	74.53	18.98	75.18	18.73	75.43	18.23	75.93				
P-8	133.94	61.10	72.84	60.34	73.60	60.05	73.89	59.55	74.39				
P-10	132.60	58.28	74.32	57.55	75.05	57.25	75.35	56.77	75.83				
P-11	150.76	46.39	104.37	45.40	105.36	44.35	106.41	43.33	107.43				
P-13	112.91	37.70	75.21	36.94	75.97	36.14	76.77	AB	-				
TP			76.93		76.51		76.12		76.00				
Rain Gauge (inches)													
TP - Temporary Pond													
TOC - top of casing													
BTOC - below top of casing													
NM - not measured (unable to be located in field on that date)													
AB - abandoned													
* Considered perched water table													
** Piezometer reinstalled, old TOC elevation 96.83, new TOC elevation 98.73													
Bold indicates standing water on land surface													

GROUNDWATER AND TEMPORARY POND ELEVATIONS
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA

Location	TOC Elevation, ft NGVD	August 11, 2003		August 19, 2003		August 25, 2003		September 2, 2003	
		Depth to Water, ft BTOC	Water Level, ft NGVD	Depth to Water, ft BTOC	Water Level, ft NGVD	Depth to Water, ft BTOC	Water Level, ft NGVD	Depth to Water, ft BTOC	Water Level, ft NGVD
MW-1	116.71	39.35	77.36	39.17	77.54	38.99	77.72	38.66	78.05
MW-1B	174.48	98.30	76.18	98.08	76.40	97.72	76.76	97.41	77.07
MW-5A*	86.74	6.70	80.04	6.07	80.67	2.61	84.13	4.22	82.52
MW-5B	85.70	9.57	76.13	9.41	76.29	9.06	76.64	8.74	76.96
MW-6	88.65	12.17	76.48	12.10	76.55	11.56	77.09	11.44	77.21
MW-7A	92.46	15.33	77.13	15.49	76.97	14.63	77.83	14.69	77.77
MW-7B	93.24	17.09	76.15	16.92	76.32	16.58	76.66	16.25	76.99
MW-8*	100.10	20.59	79.51	21.45	78.65	19.81	80.29	21.10	79.00
MW-9	108.00	Dry	-	Dry	-	Dry	-	Dry	-
MW-10*	111.62	33.89	77.73	32.90	78.72	32.69	78.93	32.08	79.54
MW-11	104.45	-	-	27.20	77.25	26.98	77.47	26.65	77.80
P-2**	98.73	22.23	76.50	20.31	78.42	20.10	78.63	20.12	78.61
P-4	84.55	7.29	77.26	6.43	78.12	3.48	81.07	3.46	81.09
P-5	94.56	AB	-	AB	-	AB	-	AB	-
P-6	94.16	17.95	76.21	17.79	76.37	17.42	76.74	17.11	77.05
P-8	133.94	59.29	74.65	59.11	74.83	58.05	75.89	58.43	75.51
P-10	132.60	56.50	76.10	56.31	76.29	55.97	76.63	55.64	76.96
P-11	150.76	43.30	107.46	43.11	107.65	42.93	107.83	42.65	108.11
P-13	112.91	AB	-	AB	-	AB	-	AB	-
TP			76.44		75.78		76.18		76.87
Rain Gauge (inches)			3.48		0.15		3.70		1.10
TP - Temporary Pond									
TOC - top of casing									
BTOC - below top of casing									
NM - not measured (unable to									
AB - abandoned									
* Considered perched water table									
** Piezometer reinstated, old									
Bold indicates standing water									

GROUNDWATER AND TEMPORARY POND ELEVATIONS
 ENTERPRISE RECYCLING AND DISPOSAL FACILITY
 DADE CITY, FLORIDA

Location	TOC Elevation, ft NGVD	September 9, 2003		September 15, 2003		September 23, 2003	
		Depth to Water, ft BTOC	Water Level, ft NGVD	Depth to Water, ft BTOC	Water Level, ft NGVD	Depth to Water, ft BTOC	Water Level, ft NGVD
MW-1	116.71	38.38	78.33	38.17	78.54	37.89	78.82
MW-1B	174.48	97.27	77.21	97.13	77.35	97.09	77.39
MW-5A*	86.74	5.43	81.31	2.89	83.85	5.32	81.42
MW-5B	85.70	8.62	77.08	8.45	77.25	8.45	77.25
MW-6	88.65	11.35	77.30	11.29	77.36	11.14	77.51
MW-7A	92.46	14.58	77.88	14.34	78.12	14.51	77.95
MW-7B	93.24	16.12	77.12	15.97	77.27	15.95	77.29
MW-8*	100.10	21.46	78.64	20.66	79.44	20.75	79.35
MW-9	108.00	Dry	-	Dry	-	Dry	-
MW-10*	111.62	32.66	78.96	32.75	78.87	32.46	79.16
MW-11	104.45	26.48	77.97	26.33	78.12	26.16	78.29
P-2**	98.73	20.36	78.37	20.18	78.55	20.36	78.37
P-4	84.55	4.48	80.07	2.66	81.89	4.22	80.33
P-5	94.56	AB	-	AB	-	AB	-
P-6	94.16	17.00	77.16	16.86	77.30	16.82	77.34
P-8	133.94	58.31	75.63	58.15	75.79	58.12	75.82
P-10	132.60	55.51	77.09	55.36	77.24	55.34	77.26
P-11	150.76	42.47	108.29	42.31	108.45	42.17	108.59
P-13	112.91	AB	-	AB	-	AB	-
TP			77.13		77.46		77.35
Rain Gauge (inches)			1.70		3.60		0.15
TP - Temporary Pond							
TOC - top of casing							
BTOC - below top of casing							
NM - not measured (unable t							
AB - abandoned							
* Considered perched water t							
** Piezometer reinstalled, old							
Bold indicates standing wate							

**GROUNDWATER AND TEMPORARY POND ELEVATIONS
ENTERPRISE RECYCLING AND DISPOSAL FACILITY
DADE CITY, FLORIDA**

Location	TOC Elevation, ft NGVD	Depth to Water, ft	Water Level, ft	Depth to Water, ft	Water Level, ft
		BTOC	NGVD	ft BTOC	NGVD
		October 2, 2003	October 2, 2003	October 7, 2003	October 7, 2003
MW-1	116.71	37.72	78.99	37.66	79.05
MW-1B	174.48	97.32	77.16	97.53	76.95
MW-5A*	86.74	6.41	80.33	6.77	79.97
MW-5B	85.70	8.65	77.05	8.89	76.81
MW-6	88.65	11.39	77.26	11.62	77.03
MW-7A	92.46	14.97	77.49	15.30	77.16
MW-7B	93.24	16.16	77.08	16.40	76.84
MW-8*	100.10	21.58	78.52	21.93	78.17
MW-9	108.00	Dry	-	Dry	-
MW-10*	111.62	33.20	78.42	33.69	77.93
MW-11	104.45	26.60	77.85	26.85	77.60
P-2**	98.73	20.85	77.88	21.13	77.60
P-4	84.55	5.04	79.51	5.49	79.06
P-5	94.56	AB	-	AB	-
P-6	94.16	17.04	77.12	17.28	76.88
P-8	133.94	58.35	75.59	58.58	75.36
P-10	132.60	55.55	77.05	55.77	76.83
P-11	150.76	42.21	108.55	42.31	108.45
P-13	112.91	AB	-	AB	-
TP			77.32		77.20
Rain Gauge (inches)			1.02		0.00
TP - Temporary Pond					
TOC - top of casing					
BTOC - below top of casing					
NM - not measured (unable to					
AB - abandoned					
* Considered perched water table					
** Piezometer reinstalled, old					
Bold indicates standing water					