

Oakton College District 535

Procurement Department, Room 1240
1600 E. Golf Rd., Des Plaines, IL 60016
847-635-1635

Invitation to Bid # 0325-25-06 - Addendum#1
Issue Date: March 25, 2025

Mandatory Pre-Bid Date: April 1, 2025 @ 10:00AM CST

**Bids will be received in the Procurement Office at the above address until
10:00 AM on April 15, 2025**

Bids will be publicly opened at this time. Late bids will not be accepted.

BASEBALL FIELD PARKING LOT IMPROVEMENTS

The college is accepting bids for baseball field parking lot improvements at the Des Plaines Campus.

This bid consists of 2 documents:

- 1) Business Specifications (this document)
- 2) 2025-03-13 Oakton Baseball Field Parking Lot Improvements Final - Manhard

**A mandatory pre-bid meeting will be held on April 1, 2025, starting at 10:00 AM (CST) at
the College's Des Plaines campus, 1600 E. Golf Rd., Des Plaines, IL 60016, Room 2545.**

Only contractors who attend the pre-bid meeting will be allowed to submit a bid.

Any questions regarding this bid must be submitted in writing via email by 11:00 am on April 2nd, 2025.
All questions will be answered through an addendum and must be submitted to the following individuals:

Joe Scifo, Director of Facilities, jscifo@oakton.edu

Rich Schwass, Construction Manager at rschwass@oakton.edu

Jim Frayn, Manhard Consulting at jfrayn@manhard.com

Kimberly Klawans, Manhard Consulting at kklawans@manhard.com

Aaron Reinhart, Kluber Architects + Engineers at areinhart@kluberinc.com

Michael Kluber, Kluber Architects + Engineers at mkluber@kluberinc.com

Trinh Than, Purchasing Manager at tthan@oakton.edu

Oakton College District 535 is exempt from all Federal, State, and Municipal Taxes.

I have examined the specifications and instructions included herein and agree, provided I am awarded a contract within 60 days of the bid due date, to provide the specified items for the sum shown in accordance with the terms stated herein. All deviations from the specifications and terms are in writing and attached hereto. I offer the following discount terms

Company Name: _____ Date: _____

Address: _____ City/St/Zip: _____

Name: _____ Title: _____

Phone #: _____ Fax #: _____

Signature: _____ E-mail: _____

List of vendors who attended the Mandatory pre-bid meeting:

Maneval Construction

Alamp

Tropic Construction

Martam Construction

Schroeder Asphalt

H.E. Hodge

Abbey Co

V3

Questions from Vendor:

1. Onsite there is a huge steel plate of the school's name printed on it just sitting there at the end of the parking lot. along with some concrete blocks as well. Who will remove those off site?

Answer: Oakton will remove the concrete blocks and steel plate prior to the start of construction.

2. On the blueprints it's stated to use pavement markings. Are we using thermoplastic markings or just paint? Please clarify.

Answer: Per the construction specifications sheet 11, pavement markings shall be paint.

3. Sheet 7 of 11, Note #11 it calls to be in accordance with the recommendation of geotechnical reports. However there are no geotechnical reports in the project manual. Could you provide those as well?

Answer: Geotechnical report provided.

Local Office
November 13, 2024

Mr. Jim Frayn
Manhard Consulting, Ltd.
One Overlook Point, Suite 290
Lincolnshire, IL 60069

Re: L-97,984
Baseball Field Parking Lot Improvements
Oakton Community College
NWC Golf Rd & College Dr
Des Plaines, Illinois



TESTING SERVICE CORPORATION

Local Office:

457 E. Gundersen Drive, Carol Stream, IL 60188-2492
630.462.2600 • Fax 630.653.2726

Corporate Office:

360 S. Main Place, Carol Stream, IL 60188-2404
630.462.2600 • Fax 630.653.2726

Dear Mr. Frayn:

This report presents the results of refuse probes performed in connection with improvements to the baseball field parking lot at Oakton Community College (OCC) in Des Plaines, Illinois. These geotechnical engineering services are being provided in accordance with TSC Proposal No. 73,890 dated September 12, 2024 and the Subcontract Agreement with Manhard Consulting dated September 13, 2024.

The OCC baseball field parking lot is located on the northwest corner (NWC) of Golf Road (IL-58) and College Drive. It is understood that the OCC baseball field and parking lot were constructed over an existing landfill. Current plans call for parking lot improvements, likely consisting of regrading/leveling the existing gravel parking areas and entrance drive. It also includes expanding the parking lot into a green/weed-covered area to the west as well as between the existing lots. Ground surface elevations at the borings varied from a low of 641.5 in the southeast corner to a high of 647.5 on the western third of the site where gravel and sand stockpiles were also noted.

Field Investigation and Laboratory Testing

Thirteen (13) refuse probes were performed as part of our study. They were located within the existing gravel parking lots, entrance drive and in green spaces around the parking lots. The probe locations were selected by Manhard Consulting and staked in the field by TSC. Ground surface elevations at the borings were also acquired by TSC using a Trimble R12 GNSS receiver, being rounded to the nearest 0.5 foot. A Probe Location Plan is enclosed with this report.

The probes were taken using an ATV Geoprobe rig. They were all extended to 5 feet below existing grade. A continuous macro-core push sample (1.5" diameter) was taken with this equipment, from which a representative test specimen(s) was obtained from each probe at variable depths differentiated by the soil type/consistency. Water level readings were taken during and following completion of drilling operations.

All soil samples were examined in the laboratory to verify field descriptions and to classify them in accordance with the Unified Soil Classification System. Laboratory testing included moisture content determinations for all cohesive and intermediate (silt or loamy) soil types. An estimate of unconfined compressive strength was obtained for all cohesive soils using a calibrated pocket penetrometer (Qp).

Dry unit weight tests were also run on specimens of cohesive fill. The test probe results are attached indicating subsurface stratigraphy and soil descriptions and results of laboratory tests.

Discussion of Test Data

Crushed stone and/or sand/gravel were present at the surface of Probes 101, 103, 104, 106 - 109 and 111 (8 total), being about 12 to 24 inches thick. Topsoil was also noted within the granular surface in Probes 104, 105, 107 and 108.

Surficial topsoil (respread) materials were 8 and 12 inches thick at Probes 112 and 113, respectively, while being 24 inches thick at Probe 105. Topsoil was apparently absent at Probe 102, however, 3 to 6 inches of root zone materials are otherwise assumed to be present in any vegetated areas.

Primarily silty/sandy clay fill containing variable amounts of topsoil was found underlying the above described surface materials, typically extending to the bottom of the refuse probes at 5.0 feet in depth. Samples of the cohesive fill were variable in consistency and had water contents which typically varied from 11 to 32 percent, occasionally being higher and reaching up to around 40 percent at Probe 106 and 107. Dry unit weights were in the range of 80 to 125 pounds per cubic foot (pcf) and pocket penetrometer readings generally varying from 1.5 to 4.5 tons per square foot (tsf), occasionally being lower in Probe 107.

Refuse materials containing newspaper, plastic, wood and glass pieces were encountered in Probe 110, situated near the southwest corner of the existing parking lot. The refuse materials were present at or below a depth of 2.5 feet. The sample of the refuse materials had a water content of 244 percent.

The refuse probes were all "dry" both during and following completion of drilling operations, i.e. no free water was encountered in them.

Analysis and Recommendations

Probes 101 - 113 were taken for the proposed parking lot improvements. It is recommended that pavement areas be cleared of vegetation prior to pavement subgrade preparation. Stripping operations should also include the removal of all surficial topsoil and other decomposed plant matter. In this regard, surficial topsoil (respread) was 8 and 12 inches thick at Probes 112 and 113, respectively, while being 24 inches thick at Probe 105.

Granular materials were otherwise present at the surface of the remaining probes, being about 12 to 24 inches thick. It should be noted that topsoil materials were noted within the granular surface in Probes 104, 105, 107 and 108.

In new parking lot areas the subgrade should be proof-rolled using a loaded dump truck or other approved piece of heavy rubber-tired construction equipment, in order to detect the presence of unsuitable soil types. All soft or unstable materials determined by proof-rolling should be reworked and recompacted or, if that does not substantially improve subgrade stability, removed and replaced.



Subgrade preparation in new parking lot areas should include compaction of existing subgrade soils and new fill to 95 percent of Modified Proctor density. In this regard, samples of the underlying existing clay fill were variable in consistency, having moisture contents typically varying from 12 to 31 percent. In most cases, the clay fill will have to be reduced in moisture content in order to meet the recommended compaction criterion or achieve stability. This is typically accomplished by spreading the material in a single lift and aerating with a continuous discing operation, for obvious reasons to work best in hot, dry and windy weather.

If parking lot construction is performed when drying of surficial soils cannot be accomplished, lime modification or removal of unstable subgrade and replacement with drier cohesive fill or 1 to 2 feet of coarse granular materials may be required. Granular materials should consist of crushed stone, crushed gravel or recycled concrete between ¼ to 3 inches in size and containing no fines; IDOT gradations CA-1 and CA-7 meet these criteria.

Refuse materials were encountered within the upper 5 feet at Probe 110, situated near the southwest corner of the existing parking lot. The Refuse materials were present at or below a depth of 2.5 feet, having a water content of 244 percent. While refuse materials were not found in the upper 5 feet in most of the probes it is likely present at deeper depths based on other probes taken at the OCC baseball field. It should therefore be understood that variable long-term settlement of landfill materials located under the parking lot is expected to continue to occur, especially in areas where grade is to be raised. While it is difficult to estimate the amount of settlement, recent past experience is probably the best indicator of future movements.

Closure

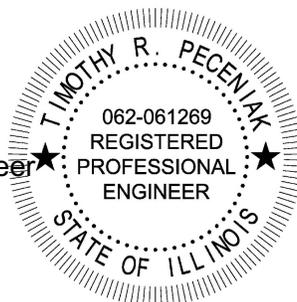
The analyses and recommendations submitted in this report are based upon the data obtained from the thirteen (13) refuse probes performed at the locations indicated on the Probe Location Plan. This report does not reflect any variations that may occur between these borings or elsewhere on the site, the nature and extent of which may not become evident until during the course of construction. If variations are then identified, recommendations contained in this report should be re-evaluated after performing on-site observations.

Please call if there are any questions in regard to this matter or if we may be of further service.

Respectfully submitted,

TESTING SERVICE CORPORATION


Timothy R. Peceniak, P.E.
Project Engineer
Registered Professional Engineer
Illinois No. 062-061269




Samuel J. Patrick, P.E.
Geotechnical Engineer

TRP:SJP:trp



TESTING SERVICE CORPORATION

1. PARTIES AND SCOPE OF WORK: If Client is ordering the services on behalf of another, Client represents and warrants that Client is the duly authorized agent of said party for the purpose of ordering and directing said services, and in such case the term "Client" shall also include the principal for whom the services are being performed. Prices quoted and charged by TSC for its services are predicated on the conditions and the allocations of risks and obligations expressed in these General Conditions. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by Client are adequate and sufficient for Client's intended purpose. Unless otherwise expressly assumed in writing, TSC's services are provided exclusively for client. TSC shall have no duty or obligation other than those duties and obligations expressly set forth in this Agreement. TSC shall have no duty to any third party. Client shall communicate these General Conditions to each and every party to whom the Client transmits any report prepared by TSC. Ordering services from TSC shall constitute acceptance of TSC's proposal and these General Conditions.

2. SCHEDULING OF SERVICES: The services set forth in this Agreement will be accomplished in a timely and workmanlike manner. If TSC is required to delay any part of its services to accommodate the requests or requirements of Client, regulatory agencies, or third parties, or due to any cause beyond its reasonable control, Client agrees to pay such additional charges, if any, as may be applicable.

3. ACCESS TO SITE: TSC shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as a result of its services or the use of its equipment; however, TSC has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires TSC to restore the site to its former condition, TSC will, upon written request, perform such additional work as is necessary to do so and Client agrees to pay to TSC the cost thereof plus TSC's normal markup for overhead and profit.

4. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that Client has advised TSC of any known or suspected hazardous materials, utility lines and underground structures at any site at which TSC is to perform services under this Agreement. Unless otherwise agreed in writing, TSC's responsibility with respect to underground utility locations is to contact the Illinois Joint Utility Locating Information for Excavators for the location of public, but not private, utilities.

5. DISCOVERY OF POLLUTANTS: TSC's services shall not include investigation for hazardous materials as defined by the Resource Conservation Recovery Act, 42 U.S.C. § 6901, et, seq., as amended ("RCRA") or by any state or Federal statute or regulation. In the event that hazardous materials are discovered and identified by TSC, TSC's sole duty shall be to notify Client.

6. MONITORING: If this Agreement includes testing construction materials or observing any aspect of construction of improvements, Client's construction personnel will verify that the pad is properly located and sized to meet Client's projected building loads. Client shall cause all tests and inspections of the site, materials and work to be timely and properly performed in accordance with the plans, specifications, contract documents, and TSC's recommendations. No claims for loss, damage or injury shall be brought against TSC unless all tests and inspections have been so performed and unless TSC's recommendations have been followed.

TSC's services shall not include determining or implementing the means, methods, techniques or procedures of work done by the contractor(s) being monitored or whose work is being tested. TSC's services shall not include the authority to accept or reject work or to in any manner supervise the work of any contractor. TSC's services or failure to

perform same shall not in any way operate or excuse any contractor from the performance of its work in accordance with its contract. "Contractor" as used herein shall include subcontractors, suppliers, architects, engineers and construction managers.

Information obtained from borings, observations and analyses of sample materials shall be reported in formats considered appropriate by TSC unless directed otherwise by Client. Such information is considered evidence, but any inference or conclusion based thereon is, necessarily, an opinion also based on engineering judgment and shall not be construed as a representation of fact. Subsurface conditions may not be uniform throughout an entire site and ground water levels may fluctuate due to climatic and other variations. Construction materials may vary from the samples taken. Unless otherwise agreed in writing, the procedures employed by TSC are not designed to detect intentional concealment or misrepresentation of facts by others.

7. DOCUMENTS AND SAMPLES: Client is granted an exclusive license to use findings and reports prepared and issued by TSC and any sub-consultants pursuant to this Agreement for the purpose set forth in TSC's proposal provided that TSC has received payment in full for its services. TSC and, if applicable, its sub-consultant, retain all copyright and ownership interests in the reports, boring logs, maps, field data, field notes, laboratory test data and similar documents, and the ownership and freedom to use all data generated by it for any purpose. Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of TSC's report.

8. TERMINATION: TSC's obligation to provide services may be terminated by either party upon (7) seven days prior written notice. In the event of termination of TSC's services, TSC shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses. The terms and conditions of these General Conditions shall survive the termination of TSC's obligation to provide services.

9. PAYMENT: Client shall be invoiced periodically for services performed. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to in writing for valid cause within sixty (60) days at the rate of twelve (12%) per annum (or the maximum interest rate permitted by applicable law, whichever is the lesser) until paid and TSC's costs of collection of such accounts, including court costs and reasonable attorney's fees.

10. WARRANTY: TSC's professional services will be performed, its findings obtained and its reports prepared in accordance with these General Conditions and with generally accepted principles and practices. In performing its professional services, TSC will use that degree of care and skill ordinarily exercised under similar circumstances by members of its profession. In performing physical work in pursuit of its professional services, TSC will use that degree of care and skill ordinarily used under similar circumstances. This warranty is in lieu of all other warranties or representations, either express or implied. Statements made in TSC reports are opinions based upon engineering judgment and are not to be construed as representations of fact.

Should TSC or any of its employees be found to have been negligent in performing professional services or to have made and breached any express or implied warranty, representation or contract, Client, all parties claiming through Client and all parties claiming to have in any way relied upon TSC's services or work agree that the maximum aggregate amount of damages for which TSC, its officers, employees and agents shall be liable is limited to \$50,000 or the total amount of the fee paid to TSC for its services performed with respect to the project, whichever amount is greater.

GENERAL CONDITIONS

Geotechnical and Construction Services

In the event Client is unwilling or unable to limit the damages for which TSC may be liable in accordance with the provisions set forth in the preceding paragraph, upon written request of Client received within five days of Client's acceptance of TSC's proposal together with payment of an additional fee in the amount of 5% of TSC's estimated cost for its services (to be adjusted to 5% of the amount actually billed by TSC for its services on the project at time of completion), the limit on damages shall be increased to \$500,000 or the amount of TSC's fee, whichever is the greater. This charge is not to be construed as being a charge for insurance of any type, but is increased consideration for the exposure to an award of greater damages.

11. INDEMNITY: Subject to the provisions set forth herein, TSC and Client hereby agree to indemnify and hold harmless each other and their respective shareholders, directors, officers, partners, employees, agents, subsidiaries and division (and each of their heirs, successors, and assigns) from any and all claims, demands, liabilities, suits, causes of action, judgments, costs and expenses, including reasonable attorneys' fees, arising, or allegedly arising, from personal injury, including death, property damage, including loss of use thereof, due in any manner to the negligence of either of them or their agents or employees or independent contractors. In the event both TSC and Client are found to be negligent or at fault, then any liability shall be apportioned between them pursuant to their pro rata share of negligence or fault. TSC and Client further agree that their liability to any third party shall, to the extent permitted by law, be several and not joint. The liability of TSC under this provision shall not exceed the policy limits of insurance carried by TSC. Neither TSC nor Client shall be bound under this indemnity agreement to liability determined in a proceeding in which it did not participate represented by its own independent counsel. The indemnities provided hereunder shall not terminate upon the termination or expiration of this Agreement, but may be modified to the extent of any waiver of subrogation agreed to by TSC and paid for by Client.

12. SUBPOENAS: TSC's employees shall not be retained as expert witnesses except by separate, written agreement. Client agrees to pay TSC pursuant to TSC's then current fee schedule for any TSC employee(s) subpoenaed by any party as an occurrence witness as a result of TSC's services.

13. OTHER AGREEMENTS: TSC shall not be bound by any provision or agreement (i) requiring or providing for arbitration of disputes or controversies arising out of this Agreement or its performance, (ii) wherein TSC waives any rights to a mechanics lien or surety bond claim; (iii) that conditions TSC's right to receive payment for its services upon payment to Client by any third party or (iv) that requires TSC to indemnify any party beyond its own negligence. These General Conditions are notice, where required, that TSC shall file a lien whenever necessary to collect past due amounts. This Agreement contains the entire understanding between the parties. Unless expressly accepted by TSC in writing prior to delivery of TSC's services, Client shall not add any conditions or impose conditions which are in conflict with those contained herein, and no such additional or conflicting terms shall be binding upon TSC. The unenforceability or invalidity of any provision or provisions shall not render any other provision or provisions unenforceable or invalid. This Agreement shall be construed and enforced in accordance with the laws of the State of Illinois. In the event of a dispute arising out of or relating to the performance of this Agreement, the breach thereof or TSC's services, the parties agree to try in good faith to settle the dispute by mediation under the Construction Industry Mediation Rules of the American Arbitration Association as a condition precedent to filing any demand for arbitration, or any petition or complaint with any court. Paragraph headings are for convenience only and shall not be construed as limiting the meaning of the provisions contained in these General Conditions.

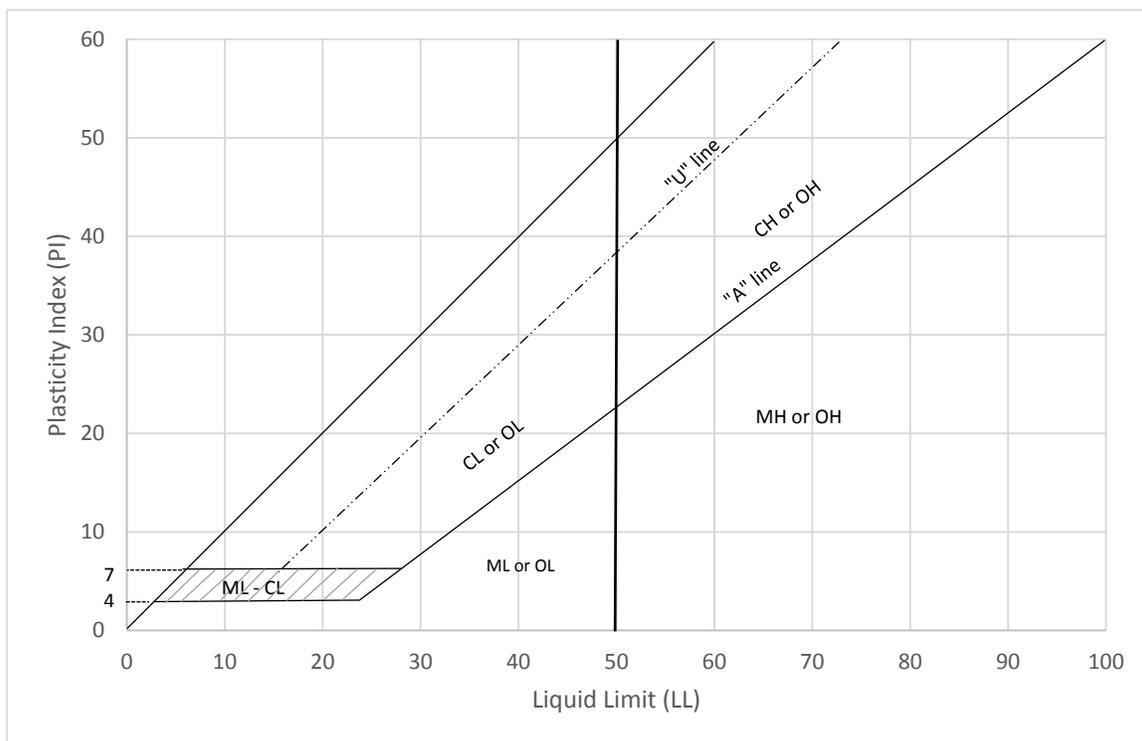
Testing Service Corporation Unified Classification Chart



CRITERIA FOR ASSIGNING GROUP SYMBOLS AND GROUP NAMES USING LABORATORY TEST ^a				SOIL CLASSIFICATION	
				Group Symbol	GROUP NAME ^b
COARSE - GRAINED SOILS more than 50% retained on No. 200 sieve	GRAVELS More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS less than 5% fines ^c	$C_u \geq 4$ and $1 \leq C_c \leq 3$ ^e	GW	Well-graded gravel ^f
			$C_u < 4$ and/or $1 > C_c > 3$ ^e	GP	Poorly-graded gravel ^f
		GRAVELS WITH FINES more than 12% fines ^c	Fines classify as ML or MH	GM	Silty gravel ^{f, g, h}
			Fines classify as CL or CH	GC	Clayey gravel ^{f, g, h}
	SANDS 50% or more of coarse fraction passes No. 4 sieve	CLEAN SANDS less than 5% fines ^d	$C_u \geq 6$ and $1 \leq C_c \leq 3$ ^e	SW	Well-graded sand ⁱ
			$C_u < 6$ and/or $1 > C_c > 3$ ^e	SP	Poorly-graded sand ⁱ
		SANDS WITH FINES more than 12% fines ^d	Fines classify as ML or MH	SM	Silty sand ^{g, h, f}
			Fines classify as CL or CH	SC	Clayey sand ^{g, h, f}
FINE - GRAINED SOILS 50% or more passed the No. 200 sieve	SILTS & CLAYS Liquid limit less than 50%	Inorganic	$PI > 7$ or plots on or above "A" line ^j	CL	Lean clay ^{k, l, m}
			$PI < 4$ or plots below "A" line ^j	ML	Silt ^{k, l, m}
	SILTS & CLAYS Liquid limit 50% or more	Inorganic	$\frac{\text{Liquid limit} - \text{oven dried}}{\text{Liquid limit} - \text{not dried}} < 0.75$	OL	Organic clay ^{k, l, m, n} Organic silt ^{k, l, m, o}
			PI plots on or above "A" line	CH	Fat clay ^{k, l, m}
			PI plots below "A" line	MH	Elastic silt ^{k, l, m}
			$\frac{\text{Liquid limit} - \text{oven dried}}{\text{Liquid limit} - \text{not dried}} < 0.75$	OH	Organic clay ^{k, l, m, p} Organic silt ^{k, l, m, q}
Highly organic soils		Primarily organic matter, dark in color, and organic odor		PT	Peat

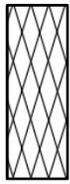
- a. Based on the material passing the 3-inch (75-mm) sieve.
- b. If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name
- c. Gravels with 5 to 12% fines required dual symbols
GW-GM well graded gravel with silt
GW-GC well graded gravel with clay
GP-GM poorly graded gravel with silt
GP-GC poorly graded gravel with clay
- d. Sands with 5 to 12% fines require dual symbols
SW-SM well graded sand with silt
SW-SC well graded sand with clay
SP-SM poorly graded sand with silt
SP-SC poorly graded sand with clay
- e. $C_u = D_{60}/D_{10}$ $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$

- f. If soils contains $\geq 15\%$ sand, add "with sand" to group name.
- g. If fines classify as CL-ML, use dual symbol GC-GM, SC-SM
- h. If fines are organic, add "with organic fines" to group name
- i. If soils contains $\geq 15\%$ gravel, add "with gravel" to group name
- j. If Atterberg Limits plot in hatched area, soil is a CL - ML, silty clay
- k. If soils contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant
- l. If soil contains $\geq 30\%$ plus No. 200, predominantly sand, add "sandy" to group name.
- m. If soils contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name
- n. $PI \geq 4$ and plots on or above "A" line
- o. $PI \geq 4$ and plots below "A" line
- p. PI plots on or above "A" line
- q. PI plots below "A" line





LEGEND FOR BORING LOGS



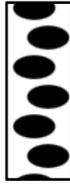
FILL



TOPSOIL



PEAT



GRAVEL



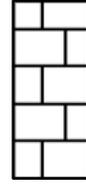
SAND



SILT



CLAY



LIMESTONE/
DOLOMITE

SAMPLE TYPE

SS	=	Split-Spoon
ST	=	Thin-Walled Tube
A	=	Auger
MC	=	Macro-Core (Geoprobe)
RC	=	Rock Core

WATER LEVEL OBSERVATIONS

▼	While Drilling
▽	End of Boring
▼	24 Hours

FIELD AND LABORATORY TEST DATA

N	=	Standard Penetration Resistance in Blows per Foot (bpf)
WC	=	In-Situ Water Content (%)
Qu	=	Unconfined Compressive Strength in Tons per Square Foot (tsf)
Qp	=	Pocket Penetrometer Reading: Maximum Value = 4.5 tsf
γ _{dry}	=	Dry Unit Weight in Pounds per Cubic Foot (pcf)

SOIL DESCRIPTIONS:

MATERIAL

BOULDER
COBBLE
Large GRAVEL
Small GRAVEL
Coarse SAND
Medium SAND
Fine SAND
SILT and CLAY

PARTICLE SIZE RANGE

Over 12 inches
12 inches to 3 inches
3 inches to ¾ inch
¾ inch to No. 4 Sieve
No. 4 Sieve to No. 10 Sieve
No. 10 Sieve to No. 40 Sieve
No. 40 Sieve to No. 200 Sieve
Passing No. 200 Sieve

COHESIVE SOILS

<u>CONSISTENCY</u>	<u>Qu (tsf)</u>
Very Soft	Less than 0.25
Soft	0.25 to 0.5
Medium Stiff	0.5 to 1.0
Stiff	1.0 to 2.0
Very Stiff	2.0 to 4.0
Hard	4.0 and over

COHESIONLESS SOILS

<u>RELATIVE DENSITY</u>	<u>N (bpf)</u>
Very Loose	0 – 3
Loose	4 – 9
Medium Dense	10 – 29
Dense	30 – 49
Very Dense	50 and over

MODIFYING TERM

Trace
Little
Some

PERCENT BY WEIGHT

1 – 10
10 – 20
20 – 35



TESTING SERVICE CORPORATION

457 EAST GUNDERSEN DR. · CAROL STREAM, ILLINOIS 60188

Client: **Manhard Consulting, Ltd.**
One Overlook Point, Suite 290
Lincolnshire, IL 60069

Test Probe Results

Job Number
L-97,984
Page Number
1 of 3

Project: **Baseball Field Parking Lot Improvements**
Oakton Community College
NEC Golf Road & College Drive
Des Plaines, Illinois

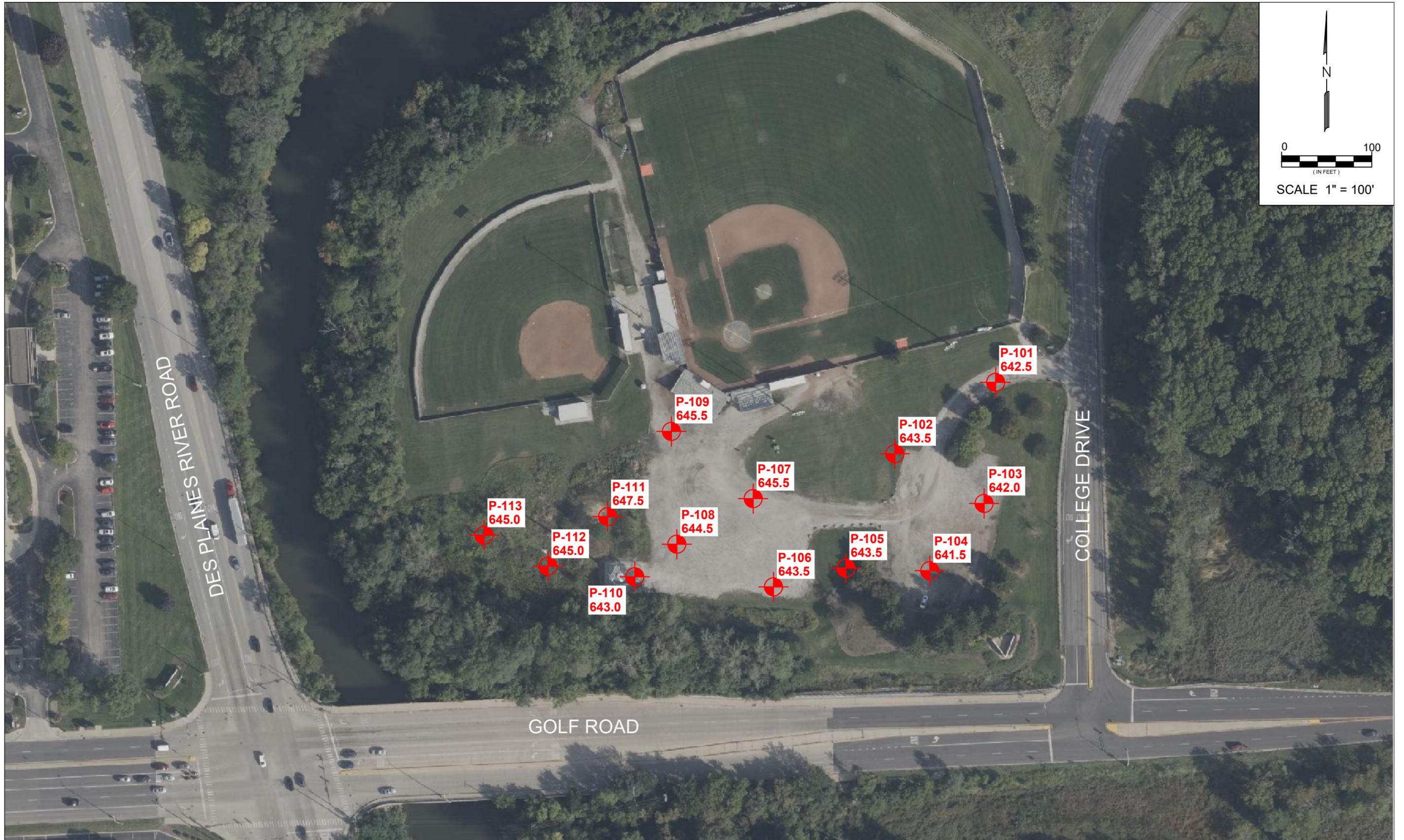
Test Data					
Probe No.	Depth (Feet)	Moisture (%)	Qp (tsf)	γ Dry (pcf)	Soil Description
101	0' - 1.3'	2.6	--	--	16" fine Sand and Gravel/Crushed Rock
	1.3' - 2.5'	18.5	NP	113	FILL - Brown and gray silty Clay, little sand, some gravel, moist (CL)
	2.5' - 3.8'	31.6	3.0	83	FILL - Dark brown and gray silty Clay, trace sand and gravel, trace organic, trace Wood pieces, moist (CL/OL)
	3.8' - 5.0'	32.1	1.75	90	FILL - Black and dark brown silty Clay/Topsoil, little sand, trace gravel, trace organic, trace Wood pieces, moist (OL/CL)
102	0' - 1.8'	16.5	1.75	109	FILL - Black and dark brown silty Clay/Topsoil, little sand, trace gravel, trace organic, trace Wood and Plastic pieces, moist (OL/CL)
	1.8' - 2.5'	27.5	3.50	91	
	2.5' - 4.5'	31.4	1.75	86	
	4.5' - 5.0'	24.1	2.0	93	FILL - Gray silty Clay, little sand and gravel, trace Asphalt and Plastic pieces, moist (CL)
103	0' - 1.3'	3.6	NP	--	16" fine Sand and Gravel, trace Brick pieces
	1.3' - 2.0'	21.1	3.5	107	FILL - Dark brown and gray silty Clay, little sand and gravel, trace to little organic, moist (CL/OL)
	2.0' - 3.8'	12.6	4.0	117	
	3.8' - 5.0'	30.3	2.0	93	
104	0' - 0.8'	4.5	--	--	8" Sand and Gravel with sandy Topsoil
	0.8' - 1.2'	5.3	--	--	4" Crushed Stone (CA-6 like gradation)
	1.2' - 2.0'	15.1	4.5	118	FILL - Dark brown and gray silty Clay, little sand and gravel, trace to little organic, trace Wood and Glass pieces, moist (CL/OL)
	2.0' - 4.0'	31.1	2.5	92	
	4.0' - 5.0'	17.5	4.5	113	

Qp = Unconfined compressive strength in tons per square foot based on readings with a calibrated pocket penetrometer

Test Data					
Probe No.	Depth (Feet)	Moisture (%)	Qp (tsf)	γ Dry (pcf)	Soil Description
105	0' - 2.0'	15.7	--	--	24" Black sandy Topsoil with gravel pieces, moist
	2.0' - 2.5'	13.9	2.5	117	FILL - Dark brown and black silty Clay, little sand, trace gravel, trace to little organic, trace Wood and Glass pieces, moist (CL/OL)
	2.5' - 3.8'	17.5	4.0	110	
	3.8' - 5.0'	15.4	3.5	112	
106	0' - 1.1'	4.8	--	--	13" Sand and Gravel, trace Glass pieces
	1.1' - 2.0'	40.6	1.5	80	FILL - Black, dark brown and gray silty Clay, trace sand and gravel, trace to little organic, trace to little Wood, Brick, Glass and Plastic pieces, moist (CL)
	2.5' - 3.0'	25.4	2.0	98	
	3.0' - 5.0'	31.1	1.5	99	
107	0' - 1.0'	5.3	--	--	12" Black Gravel with sandy Topsoil, moist
	1.0' - 2.0'	10.4	4.5	125	FILL - Dark brown silty Clay, little sand and gravel, trace organic, moist (CL)
	2.0' - 3.5'	38.4	1.5	80	FILL - Dark brown and black silty Clay, trace sand and gravel, trace organic, trace Wood pieces, moist to very moist (CL/OL)
	3.5' - 5.0'	20.6	0.5	94	FILL - Black and gray silty Clay/Topsoil, trace sand and gravel, trace organic, trace to little Wood, Glass and Plastic pieces, very moist (OL/CL)
108	0' - 1.4'	6.4	--	--	17" Crushed Brick and Gravel with sandy Topsoil, moist
	1.4' - 1.8'	2.6	--	--	4" Crushed Stone (CA-6 like gradation)
	1.8' - 2.5'	11.4	NP	125	FILL - Brown and gray sandy Clay, some gravel, moist (CL/ML)
	2.5' - 5.0'	16.7	2.5	103	FILL - Black and dark brown silty Clay, trace sand and gravel, trace organic, trace Wood and Glass pieces, moist (OL/CL)
109	0' - 1.3'	6.0	--	--	16" fine Sand and Gravel/Crushed Rock
	1.3' - 2.0'	26.2	2.0	99	FILL - Dark brown and black silty Clay, trace sand and gravel, trace organic, trace to little Wood, Glass and Plastic pieces, moist (CL/OL)
	2.0' - 3.5'	32.4	3.5	89	
	3.5' - 5.0'	15.8	1.75	104	
Qp = Unconfined compressive strength in tons per square foot based on readings with a calibrated pocket penetrometer					

Test Data					
Probe No.	Depth (Feet)	Moisture (%)	Qp (tsf)	γ Dry (pcf)	Soil Description
110	0' - 2.0'	19.9	3.5	109	FILL - Dark brown silty Clay, little sand and gravel, trace organic, some Plastic pieces, moist (CL)
	2.0' - 2.5'	16.6	2.5	--	FILL - Dark brown silty Clay, little sand and gravel, trace organic, trace Wood and Glass pieces, moist (CL/OL)
	2.5' - 5.0'	24.4	NP	--	FILL - REFUSE (Newspaper, Plastic, Wood and Glass pieces) with black, dark brown and gray silty Clay, trace sand and gravel, very moist
111	0' - 0.8'	5.2	--	--	10" Crushed Stone, moist
	0.8' - 1.7'	11.9	--	--	12" silty Sand and Gravel, moist
	1.7' - 3.0'	23.9	2.0	97	FILL - Dark brown and gray silty Clay, little sand, trace gravel, trace organic, trace to little Wood and Plastic pieces, moist to very moist (CL/OL)
	3.0' - 5.0'	17.5	1.75	111	
112	0' - 0.8'	10.3	--	--	8" Dark brown sandy Topsoil, little gravel, trace roots, little Wood pieces, moist (OL)
	0.8' - 2.0'	14.7	4.5	115	FILL - Dark brown and gray silty Clay, little sand and gravel, trace organic, trace to little Wood and Glass pieces, moist to very moist (CL)
	2.0' - 3.5'	17.8	4.5	112	
	3.5' - 5.0'	17.6	4.5	110	
113	0' - 1.0'	22.5	--	--	12" Dark brown clayey Topsoil, little roots, moist (OL)
	1.0' - 2.0'	14.9	4.0	118	FILL - Dark brown and brown silty Clay, little sand and gravel, trace organic, trace to little Wood pieces, moist (CL)
	2.0' - 3.0'	15.8	3.5	114	
	3.0' - 5.0'	22.6	2.5	104	

Qp = Unconfined compressive strength in tons per square foot based on readings with a calibrated pocket penetrometer



NOTE: GROUND SURFACE ELEVATIONS AT THE PROBES WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

LEGEND
 **PROBE LOCATION**

PROBE LOCATION PLAN
 BASEBALL FIELD PARKING LOT IMPROVEMENTS
 OAKTON COMMUNITY COLLEGE
 NWC GOLF ROAD & COLLEGE DRIVE
 DES PLAINES, ILLINOIS

 **TESTING SERVICE CORPORATION**
 457 EAST GUNDERSEN DRIVE
 CAROL STREAM, ILLINOIS 60188

DRAWN BY: FFE
CHECKED BY: TRP
JOB NO.: L-97,984
DATE: 10-04-24

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