

Office Use Only	6/11/25	\$	BDA-25-28734
	Date Filed	Fee	Application Number



**JOHNSON COUNTY, IOWA**

**APPLICATION FOR: CONDITIONAL USE PERMIT**



Application is hereby made for approval of a (state the official use as listed in the Johnson County UDO, and briefly describe the proposed use [e.g. Home Industry for Antique shop, Special Events for Corn Maze, etc.]):  
Borrow site for DOT project.

On property located at (street address if available or layman's description):

260th St NW, at the end of Ireland Ave NW, near North Liberty (Parcel Number: 0609351001).

Parcel Number(s): 0609351001

The property consists of 7.50 total acres, and is currently zoned A

***Note:** This Conditional Use Permit is subject to any conditions outlined in chapter 8:1.23 of the Unified Development Ordinance and any other conditions deemed appropriate by the board of Adjustment to protect public health, safety, and welfare.*

The undersigned affirms that the information provided herein is true and correct. If applicant is not the owner, applicant affirms that the owner(s) of the property described on this application consent to this application being submitted, and said owners hereby give their consent for the office of Johnson County Planning, Development, and Sustainability to conduct a site visit and photograph the subject property.

Double Dime Acres

Peterson Contractors, Inc.

Name of Owner

Name of Applicant (if different)

104 Blackhawk Street Reinbeck, IA 50669

Applicant Street Address (including City, State, Zip)

Applicant Phone

Applicant Email

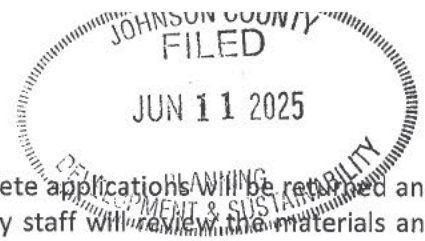
Tyler Gustafson, PE

Digitally signed by Tyler Gustafson, PE  
DN: C=US, E=tylerg@pcius.com,  
CN=Tyler Gustafson, PE  
Date: 2025.06.08 09:33:30 -0500

Applicant Signature

**See back page for Application Submittal Requirements and Checklist**

**Applications should be emailed to [planning@johnsoncountyiowa.gov](mailto:planning@johnsoncountyiowa.gov) and delivered to the Planning, Development and Sustainability Office (913 South Dubuque Street, Iowa City, IA 52240)**



The following items must be submitted for the application to be complete. Incomplete applications will be returned and will not be considered until the next submission deadline. Once submitted, county staff will review the materials and request revisions (if necessary). Once all revisions and outside reviews have been received, the application will be placed on the next available Board of Adjustment agenda.

If working with an engineer who can provide CAD or GIS line work, electronic submissions should be submitted in accordance with the PDS department's electronic submission guidelines (see below). Preference is that electronic submission is prior to hard copy submission, but will be accepted until 12:00 p.m. the day after the submittal deadline.

**Initial each empty box below** to ensure you included all necessary information in the appropriate form for an application to be considered complete. Some items may require both electronic and physical copies.

Item Required	Electronic Copy (PDF unless otherwise noted)	Hard copy
Application Fee (varies based on application. Fee: \$ <u>250</u> )		
This application form with all information completed	TG	(2)
Brief cover letter explaining the proposed use including but not limited to the number of employees, parking facilities, days and hours of operation, estimate of maximum number of customers expected on site an any one time, provisions for water and wastewater, types of equipment to be used, signage, etc	TG	
Site plan identifying the access, structure(s) for the proposed use, parking areas, signage location, and addressing any Supplemental Conditions required by Chapter 8:1.23	TG	
If working with an engineer: CAD line work of the site plan, following the guidance below	TG	
Proof of application to the Johnson County Health Department for a Public Health Zoning Application	TG	
<u>For requests to establish Utility Scale Solar (use area of 20 acres or less):</u> <ul style="list-style-type: none"> <li>Completed "Application Checklist for Utility-Scale Solar Systems (Supplemental Conditions)", accompanied by all information outlined on said checklist.</li> <li>Electronic Submission of all materials is required.</li> </ul>		
<u>For requests for Commercial Communications Towers, include the following:</u> <ul style="list-style-type: none"> <li>Sensitive Areas Analysis in compliance with the Sensitive Areas Ordinance, or an <u>approved</u> Sensitive Areas waiver.</li> <li>Stormwater Management Plan (including soil erosion and sediment control) in compliance with the Stormwater Management regulations, or an <u>approved</u> waiver</li> </ul>		

**Electronic Submission Requirements for CAD line work:**

- Must be in AutoCAD 2017 or older and .dwg format (.dxf is also acceptable, no .zip files will be accepted).
- Submissions must use Coordinate System: NAD\_1983\_StatePlane\_Iowa\_South\_FIPS\_1402\_Feet
- If applicable, submission should include information for Sensitive Areas Analysis/Mapping and Stormwater/Soil Erosion Control infrastructure on the site. This includes any limits of disturbance or other impact areas.
- Submission should NOT include legends, legal descriptions, location maps, signature blocks, etc.





PO Box A  
104 Blackhawk  
Reinbeck, IA 50669  
Ph) (319) 345-2713  
F) (319) 345-2658

## LETTER OF TRANSMITTAL

Date: 2/25/2025	PCI No: J24474
Attention: Troy Mertens	
RE: Co Rd F28/Penn St over I-380	
North Liberty, IA - Johnson Co.	
IM-NHS-380-6(393)3--03-52, (394)(399)(403)(404)(456)(469)	
Contract No	52-3806-393

TO: Streb Construction Company Inc.  
PO Box 5065  
Coralville, IA 52241

Gentlemen:

We are sending you ☒ Attached ☐ Under Separate cover via \_\_\_\_\_ the following items

☐ Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications  
☐ Copy of letter ☐ Change Order ☐ \_\_\_\_\_

Copies	Date	Number	Description
<b>Item 1510 2102-2625001 EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED</b>			
1	2/25/25	1	Iowa DOT Proposaed Borrow Identification Form (1 Page)
1	2/25/25	1	Borrow Location Map (2 Pages)
1	2/25/25	1	Borrow Design Quantity Analysis (1 Page)
1	2/25/25	1	Terracon Soil Borings (3 Pages)
1	2/25/25	1	Terracon Laboratory Charcteristics (23 Pages)
1	2/25/25	1	Borrow Cross Sections (3 Pages)

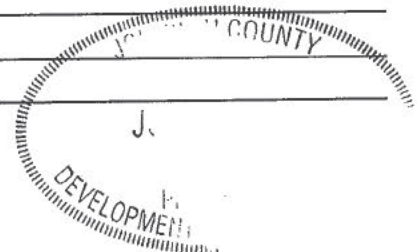
- ☒ For approval  
☐ For your use  
☐ As requested  
☐ Approved as submitted  
☐ Approved as noted  
☐ Returned for corrections  
☐ Resubmit \_\_\_\_\_ copies for approval  
☐ Submit \_\_\_\_\_ copies for distribution  
☐ Return \_\_\_\_\_ corrected prints  
☐ For review and comment  
☐ For bids due \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
☐ Prints returned after loan to us  
☐ \_\_\_\_\_

REMARKS: Urgency of review: Expedited

cc: \_\_\_\_\_

SIGNED: Tyler Gustafson- PCI

If enclosures are not as noted, kindly notify us at once.



## IOWA DOT PROPOSED BORROW IDENTIFICATION FORM

Date 1/9/2025

Project Number IM-NHS-380-6(456)--13-52 County Johnson

Project Description HMA Pavement - Grade and New  
Penn St / Co Rd F28 Interchange

Contractor Peterson Contractors Inc. Phone [REDACTED]

1. Borrow ID Number: J24474

2. Location (Legal Description): Section 9, Township 80, Range 7 in Johnson County, IA

3. Size (acres): 7.50 Acres

4. Type:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Drainable Borrow | <input type="checkbox"/> Stockpiled Borrow – Closed/Existing |
| <input type="checkbox"/> Pond Borrow                 | <input type="checkbox"/> Stockpiled Borrow – Open/Active     |
| <input type="checkbox"/> Other _____                 |  |

5. Estimated excavation quantities (in cubic yards):

Class 10 (suitable)	<u>94,000</u>
Select	<u>0</u>
Unsuitable	<u>0</u>

6. Contractor contact if additional information is required:

Name	<u>Tyler Gustafson</u>
Address	<u>104 Blackhawk St Reinbeck, IA</u>
Phone	<u>[REDACTED]</u>
Email	<u>[REDACTED]</u>



# Untitled Map

Write a description for your map.

## Legend

- Design Lines
- Design Perimeter
- Double Dime Acres Borrow



# Untitled Map

Write a description for your map.

## Legend

- Design Lines
- Design Perimeter
- Double Dime Acres Borrow





Job: Double Dime Acres Borrow

Units: Ft-CY

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Volume Report  
Design vs. Existing

Name	Total	Cut	Area Fill	OnGrade	Volume Cut	Fill	Comp/Ratio Cut	Fill	Compact Cut	Fill	Export Change -Import	Per 0.1 ft
Job Site	326,370	326,135	45	190	103,950	0	1.00	1.00	103,950	0	103,950	1,209

## Boring Log No. B-1

Graphic Log	Location: See Exploration Plan Latitude: 41.7472° Longitude: -91.6754°	Depth (Ft.)	Water Level Observations	Sample Type	SAMPLE NUMBER	Water Content (%)	Atterberg Limits
							LL-PL-PI
	Depth (Ft.) Approximate Elevation: 806 (Ft.)						
	<b>POORLY GRADED SAND (SP)</b> , brown (7.5YR 4/6)				.0002	7.9	NP
	8.0 798						
	<b>POORLY GRADED SAND (SP)</b> , brown (7.5YR 4/3)				.0010	24.4	NP
	15.0 791						
	<b>Boring Terminated at 15 Feet</b>						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).  
 See Supporting Information for explanation of symbols and abbreviations.

**Water Level Observations**  
 10' while drilling and sampling

**Drill Rig**  
 603 - CME 850XR

### Notes

**Advancement Method**  
 Flight Auger

**Driller**  
 SZ  
**Logged by**  
 JJE

**Abandonment Method**  
 Boring backfilled with auger cuttings upon completion.

**Boring Started**  
 01-28-2025  
**Boring Completed**  
 01-28-2025



## Boring Log No. B-2

Graphic Log	Location: See Exploration Plan		Depth (Ft.)	Water Level Observations	Sample Type	SAMPLE NUMBER	Water Content (%)	Atterberg Limits
	Latitude: 41.7461° Longitude: -91.6754°							LL-PL-PI
	Depth (Ft.)	Approximate Elevation: 818 (Ft.)						
	<b>POORLY GRADED SAND WITH SILT (SP-SM)</b> , brown (7.5YR 5/4)							
						.0005	5.6	NP
	8.0	810						
	<b>POORLY GRADED SAND (SP)</b> , brown (7.5YR 5/6)							
						.0004	7.7	NP
	18.0	800						
	<b>SILTY CLAYEY SAND (SC-SM)</b> , gray brown (7.5YR 4/1)							
						.0003	26.2	17-13-4
	25.0	793						
	<b>Boring Terminated at 25 Feet</b>							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).  
 See Supporting Information for explanation of symbols and abbreviations.

### Notes

**Water Level Observations**  
 13' while drilling and sampling

**Drill Rig**  
 603 - CME 850XR

**Advancement Method**  
 Flight Auger

**Driller**  
 SZ  
**Logged by**  
 JJE

**Abandonment Method**  
 Boring backfilled with auger cuttings upon completion.

**Boring Started**  
 01-28-2025  
**Boring Completed**  
 01-28-2025

## Boring Log No. B-3

Graphic Log	Location: See Exploration Plan Latitude: 41.7461° Longitude: -91.6745°		Depth (Ft.)	Water Level Observations	Sample Type	SAMPLE NUMBER	Water Content (%)	Atterberg Limits
	Depth (Ft.)							LL-PL-PI
	Approximate Elevation: 817 (Ft.)							
	<b>POORLY GRADED SAND WITH SILT (SP-SM)</b> , brown (7.5YR 2.5/2)					.0009	6.0	NP
	8.0	809	5					
	<b>POORLY GRADED SAND WITH SILT (SP-SM)</b> , brown (7.5YR 5/4)		10			.0008	5.3	NP
	13.0	804	15			.0007	17.4	NP
	<b>POORLY GRADED SAND (SP)</b> , brown (7.5YR 5/6)							
	18.0	799	20			.0006	21.0	24-13-11
	<b>SANDY LEAN CLAY (CL)</b> , trace gravel, brown (7.5YR 3/1)							
	23.0	794						
<b>Boring Terminated at 23 Feet</b>								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).  
 See Supporting Information for explanation of symbols and abbreviations.

**Water Level Observations**  
 12' while drilling and sampling

**Drill Rig**  
 603 - CME 850XR

Notes

**Advancement Method**  
 Flight Auger

**Driller**  
 SZ  
**Logged by**  
 JJE

**Abandonment Method**  
 Boring backfilled with auger cuttings upon completion.

**Boring Started**  
 01-28-2025  
**Boring Completed**  
 01-28-2025



# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

**Report Number:** 06251002.0002  
**Service Date:** 01/29/25  
**Report Date:** 02/20/25      Revision 1 - Update with Hydrometer  
**Task:** Laboratory Testing Services



2640 12th St SW  
Cedar Rapids, IA 52404-3440  
319-366-8321

## Client

Peterson Contractors, Inc.  
Attn: Matt Bohlen  
104 Blackhawk St  
PO Box A  
Reinbeck, IA 50669-1012

## Project

Iowa DOT BO 103 Johnson County- Penn Street and I-380 - Borrow (PCI .  
North Intersection of N Ireland Avenue and 260th Street NW  
DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-1, EL = 0'-8'

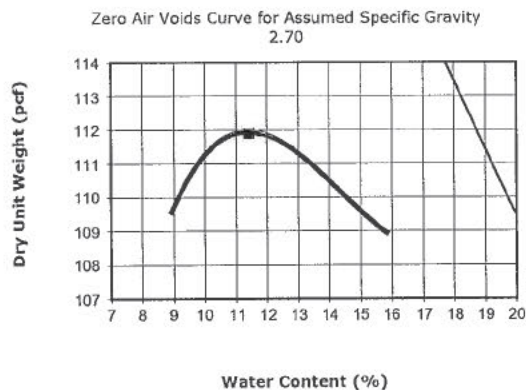
**Sample Description:** Brown (7.5 yr 4/6) Fine to Medium Sand

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Manual  
**Maximum Dry Unit Weight (pcf):** 111.9  
**Optimum Water Content (%):** 11.4

	Result	Specifications
<b>Liquid Limit:</b>	Non-plastic	
<b>Plastic Limit:</b>	Non-plastic	
<b>Plasticity Index:</b>	Non-plastic	
<b>In-Place Moisture (%):</b>	24.4	

USCS:



**Comments:** Report will be updated once hydrometers are completed

**Services:** Obtain a sample of fill material at a borrow site and return it to the laboratory. Prepare and test the sample for standard Proctor moisture-density relationship.

**Terracon Rep.:** Dillon Nolan

**Reported To:**

**Contractor:** PCI

**Report Distribution:**

(1) Peterson Contractors, Inc. , Matt Bohlen      (1) Peterson Contractors, Inc. , Tyler Gustafson

(1) Peterson Contractors, Inc. , Zach Steffen      (1) Terracon Consultants, Inc., Peng Cavan

**Reviewed By:**

Cavan, Peng  
Project Engineer

## Test Methods:

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

**Report Number:** 06251002.0010  
**Service Date:** 01/29/25  
**Report Date:** 02/20/25 Revision 1 - Update with Hydrometer  
**Task:** Laboratory Testing Services



2640 12th St SW  
Cedar Rapids, IA 52404-3440  
319-366-8321

## Client

Peterson Contractors, Inc.  
Attn: Matt Bohlen  
104 Blackhawk St  
PO Box A  
Reinbeck, IA 50669-1012

## Project

Iowa DOT BO 103 Johnson County- Penn Street and I-380 - Borrow (PCI)  
North Intersection of N Ireland Avenue and 260th Street NW  
DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-1, EL = 8'-15'

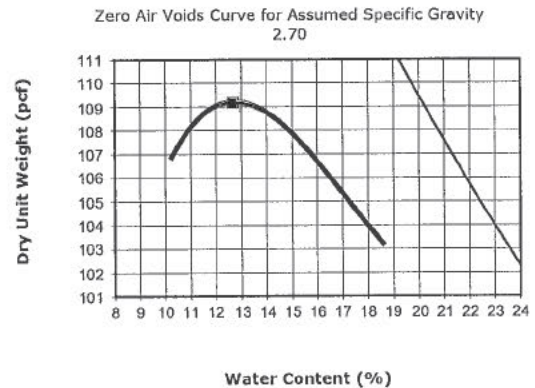
**Sample Description:** Brown (7.5 yr 4/3) Fine to Medium Sand

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Manual  
**Maximum Dry Unit Weight (pcf):** 109.2  
**Optimum Water Content (%):** 12.7

	Result	Specifications
<b>Liquid Limit:</b>	Non-plastic	
<b>Plastic Limit:</b>	Non-plastic	
<b>Plasticity Index:</b>	Non-plastic	
<b>In-Place Moisture (%):</b>	24.4	

## USCS:



**Comments:** Report will be updated once hydrometers are completed

**Services:** Obtain a sample of fill material at a borrow site and return it to the laboratory. Prepare and test the sample for standard Proctor moisture-density relationship.

**Terracon Rep.:** Dillon Nolan

**Reported To:**

**Contractor:** PCI

**Report Distribution:**

- |  |   |
|--|---|
| (1) Peterson Contractors, Inc., Matt Bohlen  | (1) Peterson Contractors, Inc., Tyler Gustafson |
| (1) Peterson Contractors, Inc., Zach Steffen | (1) Terracon Consultants, Inc., Peng Cavan      |

**Reviewed By:**

*Peng Cavan*  
Cavan, Peng  
Project Engineer

## Test Methods:

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# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

**Report Number:** 06251002.0003  
**Service Date:** 01/29/25  
**Report Date:** 02/21/25      Revision 1 - Update with Hydrometer  
**Task:** Laboratory Testing Services



2640 12th St SW  
Cedar Rapids, IA 52404-3440  
319-366-8321

## Client

Peterson Contractors, Inc.  
Attn: Matt Bohlen  
104 Blackhawk St  
PO Box A  
Reinbeck, IA 50669-1012

## Project

Iowa DOT BO 103 Johnson County- Penn Street and I-380 - Borrow (PCI)  
North Intersection of N Ireland Avenue and 260th Street NW  
DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-2, EL = 20'-25'

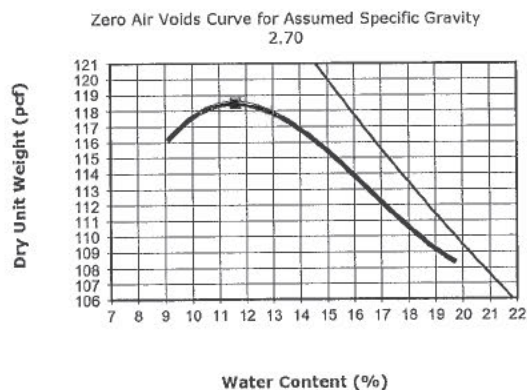
**Sample Description:** Gray Brown (7.5 yr 4/1) Silty Clayey Sand

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Mechanical  
**Maximum Dry Unit Weight (pcf):** 118.5  
**Optimum Water Content (%):** 11.6

	Result	Specifications
<b>Liquid Limit:</b>	17	
<b>Plastic Limit:</b>	13	
<b>Plasticity Index:</b>	4	
<b>In-Place Moisture (%):</b>	26.2	

## USCS:



**Comments:** Report will be updated once hydrometers are completed

**Services:** Obtain a sample of fill material at a borrow site and return it to the laboratory. Prepare and test the sample for standard Proctor moisture-density relationship.

**Terracon Rep.:** Dillon Nolan

**Reported To:**

**Contractor:** PCI

**Report Distribution:**

(1) Peterson Contractors, Inc., Matt Bohlen      (1) Peterson Contractors, Inc., Tyler Gustafson

(1) Peterson Contractors, Inc., Zach Steffen      (1) Terracon Consultants, Inc., Peng Cavan

**Reviewed By:**

Cavan, Peng  
Project Engineer

## Test Methods:

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# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

**Report Number:** 06251002.0004  
**Service Date:** 01/29/25  
**Report Date:** 02/21/25      Revision 1 - Update with Hydrometer  
**Task:** Laboratory Testing Services



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Cedar Rapids, IA 52404-3440  
319-366-8321

## Client

Peterson Contractors, Inc.  
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104 Blackhawk St  
PO Box A  
Reinbeck, IA 50669-1012

## Project

Iowa DOT BO 103 Johnson County- Penn Street and I-380 - Borrow (PCI)  
North Intersection of N Ireland Avenue and 260th Street NW  
DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-2, EL = 9'-18'

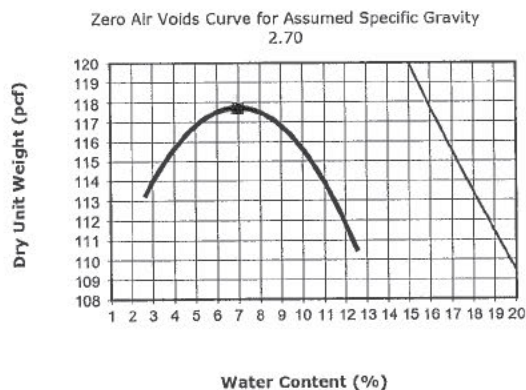
**Sample Description:** Brown (7.5 yr 5/6) Fine to Medium Sand

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Mechanical  
**Maximum Dry Unit Weight (pcf):** 117.7  
**Optimum Water Content (%):** 7.0

	Result	Specifications
<b>Liquid Limit:</b>	Non-plastic	
<b>Plastic Limit:</b>	Non-plastic	
<b>Plasticity Index:</b>	Non-plastic	
<b>In-Place Moisture (%):</b>	7.7	

## USCS:



**Comments:** Report will be updated once hydrometers are completed

**Services:** Obtain a sample of fill material at a borrow site and return it to the laboratory. Prepare and test the sample for standard Proctor moisture-density relationship.

**Terracon Rep.:** Dillon Nolan

**Reported To:**

**Contractor:** PCI

**Report Distribution:**

(1) Peterson Contractors, Inc., Matt Bohlen      (1) Peterson Contractors, Inc., Tyler Gustafson

(1) Peterson Contractors, Inc., Zach Steffen      (1) Terracon Consultants, Inc., Peng Cavan

**Reviewed By:**

Cavan, Peng  
Project Engineer

## Test Methods:

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# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

**Report Number:** 06251002.0005  
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**Task:** Laboratory Testing Services



2640 12th St SW  
Cedar Rapids, IA 52404-3440  
319-366-8321

## Client

Peterson Contractors, Inc.  
Attn: Matt Bohlen  
104 Blackhawk St  
PO Box A  
Reinbeck, IA 50669-1012

## Project

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North Intersection of N Ireland Avenue and 260th Street NW  
DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-2, EL = 0'-8'

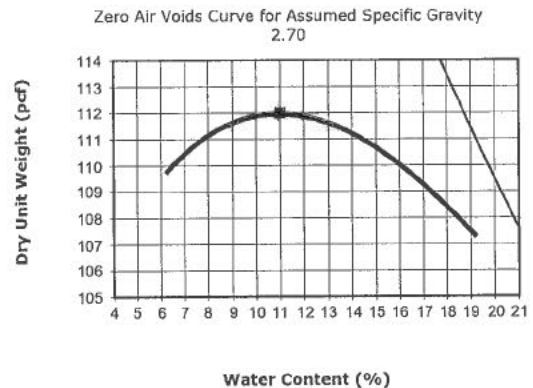
**Sample Description:** Brown (7.5 yr 5/4) Fine to Medium Sand with Silt

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Manual  
**Maximum Dry Unit Weight (pcf):** 112.0  
**Optimum Water Content (%):** 11.0

	Result	Specifications
<b>Liquid Limit:</b>	Non-plastic	
<b>Plastic Limit:</b>	Non-plastic	
<b>Plasticity Index:</b>	Non-plastic	
<b>In-Place Moisture (%):</b>	5.6	

## USCS:



**Comments:** Report will be updated once hydrometers are completed

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**Reviewed By:**

Cavan, Peng  
Project Engineer

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# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

**Report Number:** 06251002.0007  
**Service Date:** 01/29/25  
**Report Date:** 02/21/25      Revision 1 - Update with Hydrometer  
**Task:** Laboratory Testing Services



2640 12th St SW  
Cedar Rapids, IA 52404-3440  
319-366-8321

## Client

Peterson Contractors, Inc.  
Attn: Matt Bohlen  
104 Blackhawk St  
PO Box A  
Reinbeck, IA 50669-1012

## Project

Iowa DOT BO 103 Johnson County- Penn Street and I-380 - Borrow (PCI)  
North Intersection of N Ireland Avenue and 260th Street NW  
DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-3, EL = 13'-18'

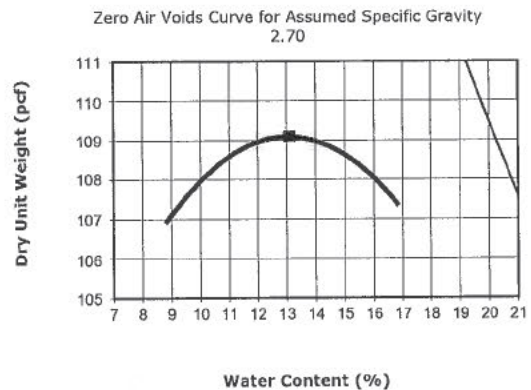
**Sample Description:** Brown (7.5 y 5/6) Fine to Medium Sand

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Manual  
**Maximum Dry Unit Weight (pcf):** 109.1  
**Optimum Water Content (%):** 13.1

	Result	Specifications
<b>Liquid Limit:</b>	Non-plastic	
<b>Plastic Limit:</b>	Non-plastic	
<b>Plasticity Index:</b>	Non-plastic	
<b>In-Place Moisture (%):</b>	17.4	

## USCS:



**Comments:** Report will be updated once hydrometers are completed

**Services:** Obtain a sample of fill material at a borrow site and return it to the laboratory. Prepare and test the sample for standard Proctor moisture-density relationship.

**Terracon Rep.:** Dillon Nolan

**Reported To:**

**Contractor:** PCI

## Report Distribution:

- |  |   |
|--|---|
| (1) Peterson Contractors, Inc., Matt Bohlen  | (1) Peterson Contractors, Inc., Tyler Gustafson |
| (1) Peterson Contractors, Inc., Zach Steffen | (1) Terracon Consultants, Inc., Peng Cavan      |

**Reviewed By:**

Cavan, Peng  
Project Engineer

## Test Methods:

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

**Report Number:** 06251002.0008  
**Service Date:** 01/29/25  
**Report Date:** 02/21/25 Revision 1 - Add Att  
**Task:** Laboratory Testing Services



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DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-3, EL = 8'-13'

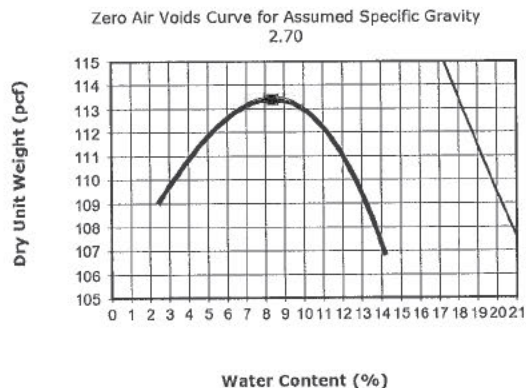
**Sample Description:** Brown (7.5 yr 5/4) Fine to Medlum Sand with Silt

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Manual  
**Maximum Dry Unit Weight (pcf):** 113.4  
**Optimum Water Content (%):** 8.4

	Result	Specifications
<b>Liquid Limit:</b>	Non-plastic	
<b>Plastic Limit:</b>	Non-plastic	
<b>Plasticity Index:</b>	Non-plastic	
<b>In-Place Moisture (%):</b>	1.8	

## USCS:



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**Services:** Obtain a sample of fill material at a borrow site and return it to the laboratory. Prepare and test the sample for standard Proctor moisture-density relationship.

**Terracon Rep.:** Dillon Nolan

**Reported To:**

**Contractor:** PCI

**Report Distribution:**

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(1) Peterson Contractors, Inc., Zach Steffen (1) Terracon Consultants, Inc., Peng Cavan

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## Project

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North Intersection of N Ireland Avenue and 260th Street NW  
DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-3, EL = 0'-8'

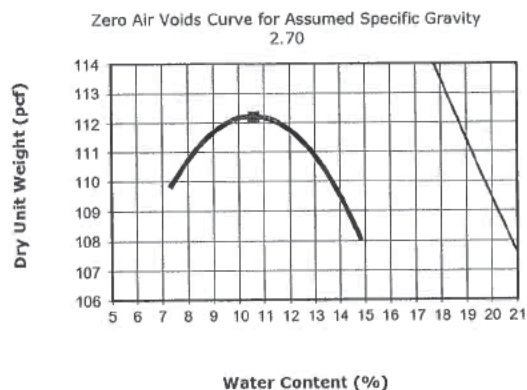
**Sample Description:** Brown (7.5 yr 2.5/2) Fine to Medium Sand with Silt

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Mechanical  
**Maximum Dry Unit Weight (pcf):** 112.2  
**Optimum Water Content (%):** 10.6

	Result	Specifications
<b>Liquid Limit:</b>	Non-plastic	
<b>Plastic Limit:</b>	Non-plastic	
<b>Plasticity Index:</b>	Non-plastic	
<b>In-Place Moisture (%):</b>	6.0	

## USCS:



## Comments:

**Services:** Obtain a sample of fill material at a borrow site and return it to the laboratory. Prepare and test the sample for standard Proctor moisture-density relationship.

**Terracon Rep.:** Dillon Nolan

**Reported To:**

**Contractor:** PCI

## Report Distribution:

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**Reviewed By:**

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DOT #IM-NHS-380-6(393)3--03-52  
North Liberty, IA  
Project Number: 06251002

## Material Information

**Source of Material:** Borrow site  
**Proposed Use:** Grading

## Sample Information

**Sample Date:** 01/29/25  
**Sampled By:** Everman, Jeremy  
**Sample Location:** B-3, EL = 19'-23'

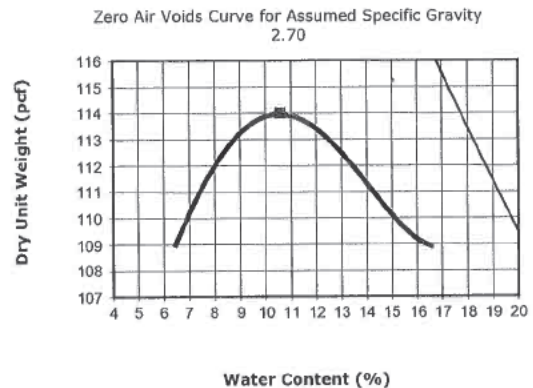
**Sample Description:** Brown (7.5 yr 3/1) Sandy Lean Clay trace Gravel

## Laboratory Test Data

**Test Procedure:** ASTM D698  
**Test Method:** Method A  
**Sample Preparation:** Wet  
**Rammer Type:** Manual  
**Maximum Dry Unit Weight (pcf):** 114.0  
**Optimum Water Content (%):** 10.6

	Result	Specifications
<b>Liquid Limit:</b>	24	
<b>Plastic Limit:</b>	13	
<b>Plasticity Index:</b>	11	
<b>In-Place Moisture (%):</b>	21.0	

## USCS:



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**Terracon Rep.:** Dillon Nolan

**Reported To:**

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**Report Distribution:**

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**Reviewed By:**

Cavan, Peng  
Project Engineer

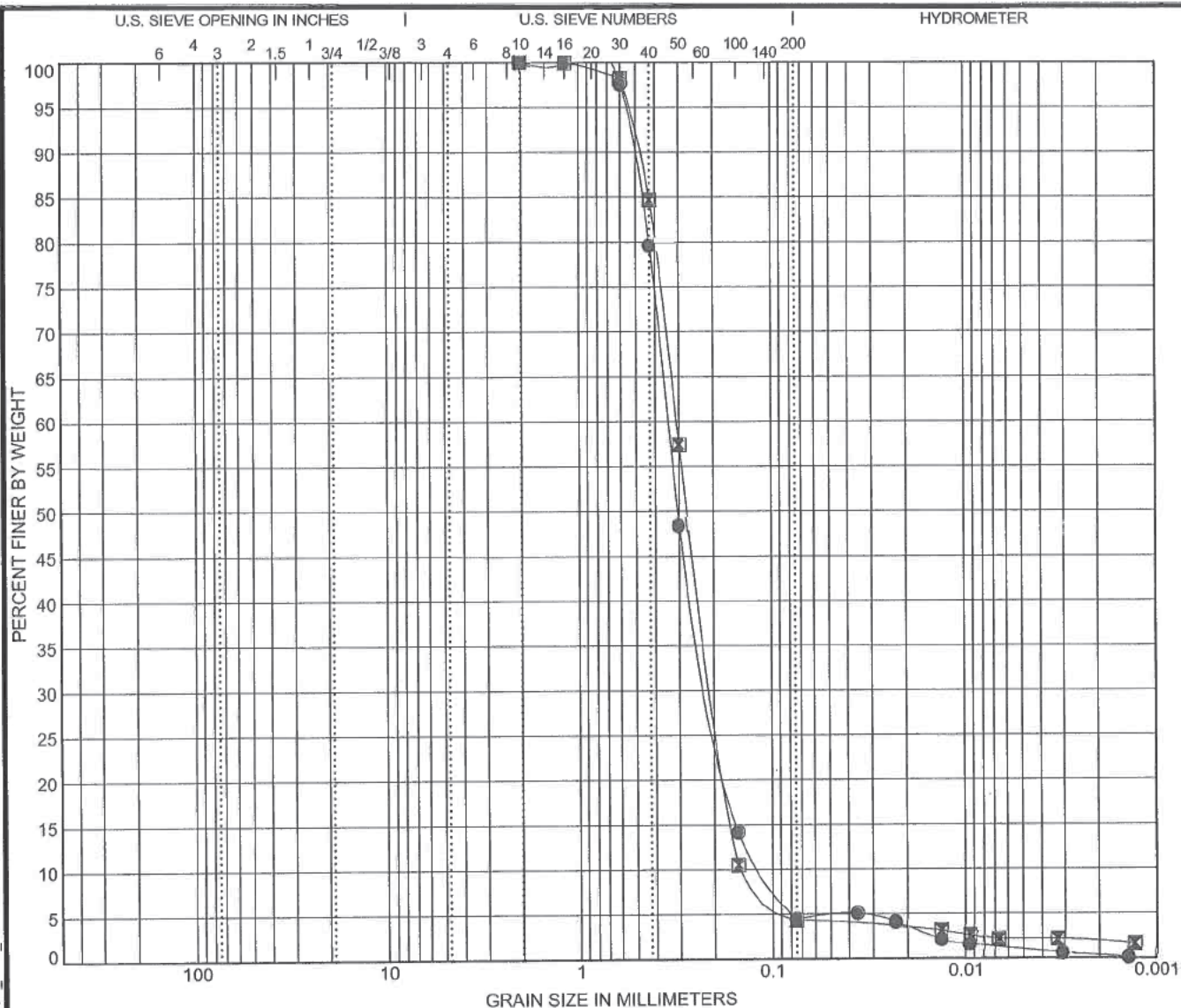
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LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. IADOT-HNTB\_GRAIN\_SIZE\_REPORT 06251002 IOWA DOT BO 103 JOHNSON COUNTY-PENN STREET AND I-380 - BORROW (PCI J24474).GPI TERRACON\_DATATEMPLATE.GOT 2/20/25

# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL	SAND	SILT OR CLAY
---------	--------	------	--------------

BORING ID	DEPTH	% GRAVEL	% SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-1	0 - 8	0	96	4	0	NP	NP	NP
B-1	8 - 15	0	96	2	2	NP	NP	NP

						Soil Classification*				
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer	Boring ID	Depth	USCS	AASHTO Current/1991	USDA
#10	100.0	#10	100.0			B-1	0 - 8	POORLY GRADED SAND (SP)	A-3 (0) / (0)	SAND
#16	99.94	#16	99.97							
#30	97.66	#30	98.26							
#40	79.65	#40	84.73							
#50	48.47	#50	57.39			B-1	8 - 15	POORLY GRADED SAND (SP)	A-3 (0) / (0)	SAND
#100	14.16	#100	10.5							
#200	4.43	#200	4.31							
* Per Iowa DOT Design Manual, Chapter 200D-1										

\* Per Iowa DOT Design Manual, Chapter 200D-1

PROJECT: Iowa DOT BO 103 Johnson  
County - Penn Street and I-380  
Borrow (PCI J24474)  
SITE: North Intersection of N Ireland Ave and  
260th Street NW  
North Liberty, IA

**Terracon**  
2640 12th St SW  
Cedar Rapids, IA

PROJECT NUMBER: 06251002

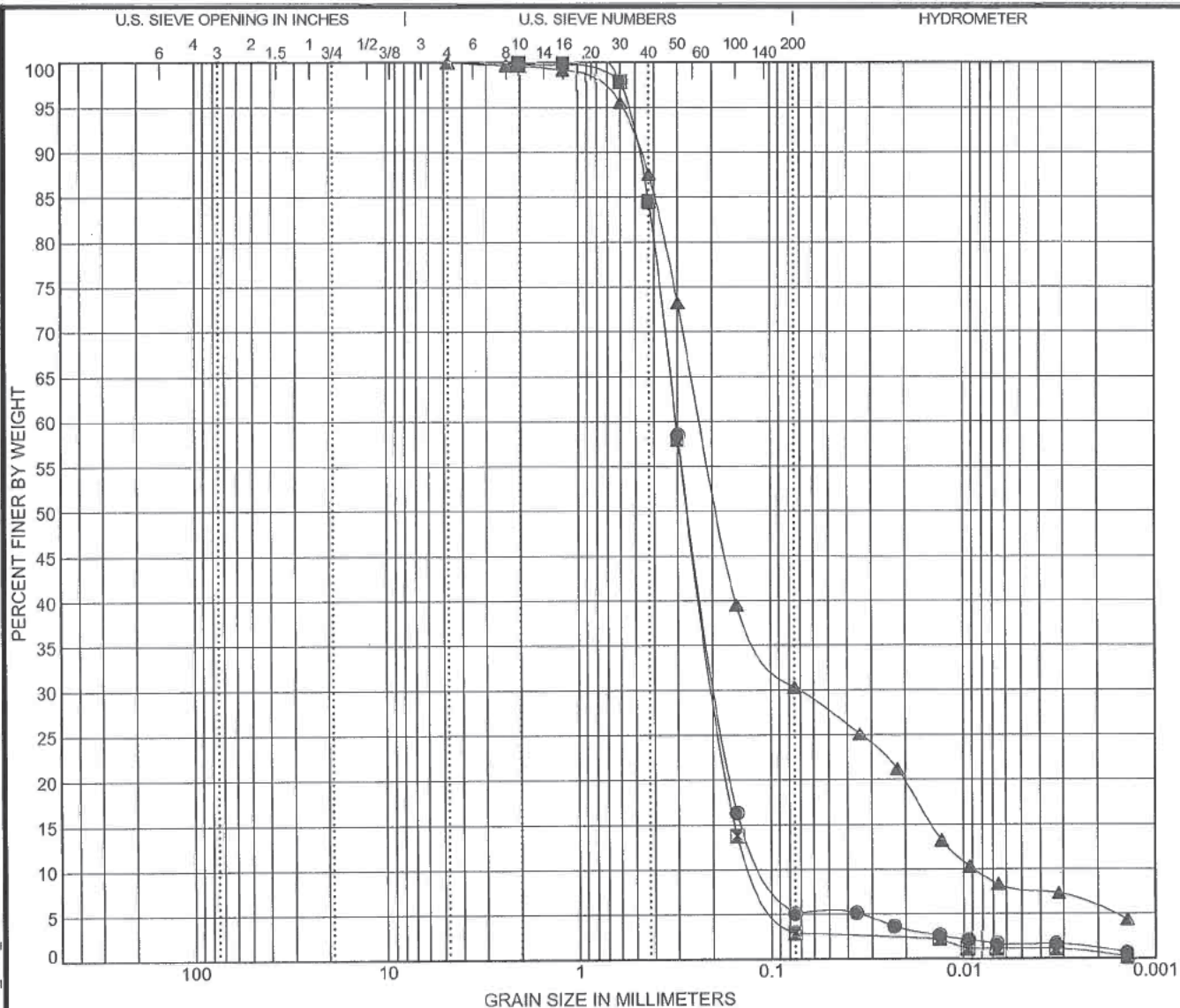
CLIENT: Peterson Contractors, Inc.  
Reinbeck, IA

EXHIBIT: B-1

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. IADOT-HNTB\_GRAIN\_SIZE\_REPORT 06251002 IOWA DOT BO 103 JOHNSON COUNTY-PENN STREET AND I-380 - BORROW (PCI J24474).GPJ TERRACON\_DATATEMPLATE.GDT 2/20/25

# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

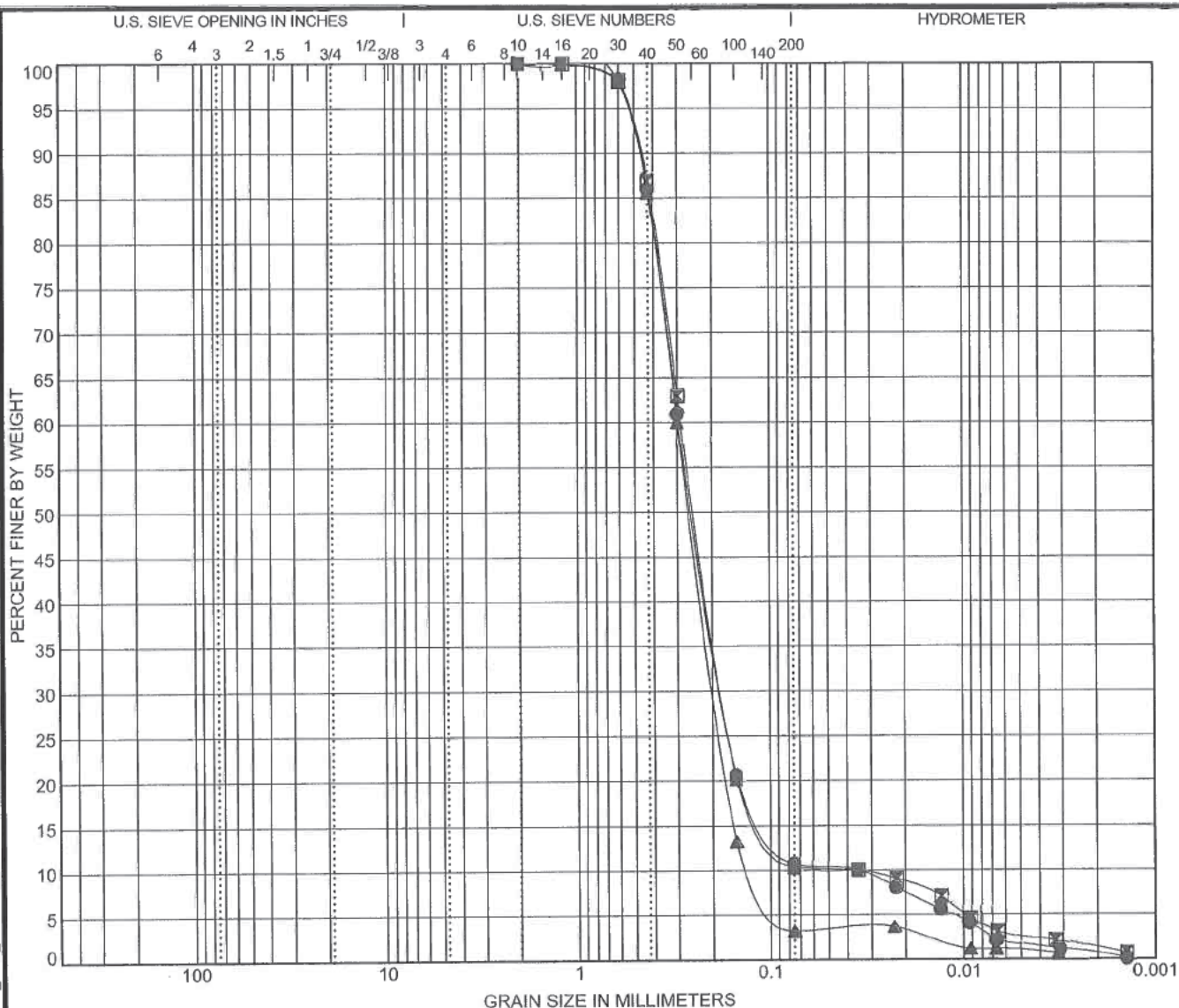






# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL	SAND	SILT OR CLAY
---------	--------	------	--------------

BORING ID	DEPTH	% GRAVEL	% SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-3	0 - 8	0	89	10	1	NP	NP	NP
B-3	8 - 13	0	90	9	1	NP	NP	NP
B-3	13 - 18	0	97			NP	NP	NP

Soil Classification*						Boring ID	Depth	USCS	AASHTO Current/1991	USDA
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer					
#10	100.0	#10	100.0	#10	100.0	B-3	0 - 8	POORLY GRADED SAND with SILT (SP-SM)	A-2-4 (0) / (0)	SAND
#16	99.98	#16	99.97	#16	99.95					
#30	98.24	#30	98.14	#30	97.94					
#40	86.05	#40	86.96	#40	85.57					
#50	60.99	#50	62.94	#50	59.95					
#100	20.63	#100	20.27	#100	13.25	B-3	8 - 13	POORLY GRADED SAND with SILT (SP-SM)	A-3 (0) / (0)	SAND
#200	10.74	#200	10.37	#200	3.24					
						B-3	13 - 18	POORLY GRADED SAND (SP)	A-3 (0) / (0)	

\* Per Iowa DOT Design Manual, Chapter 200D-1

PROJECT: Iowa DOT BO 103 Johnson County - Penn Street and I-380  
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North Liberty, IA

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2540 12th St SW  
Cedar Rapids, IA

PROJECT NUMBER: 06251002

CLIENT: Peterson Contractors, Inc.  
Reinbeck, IA

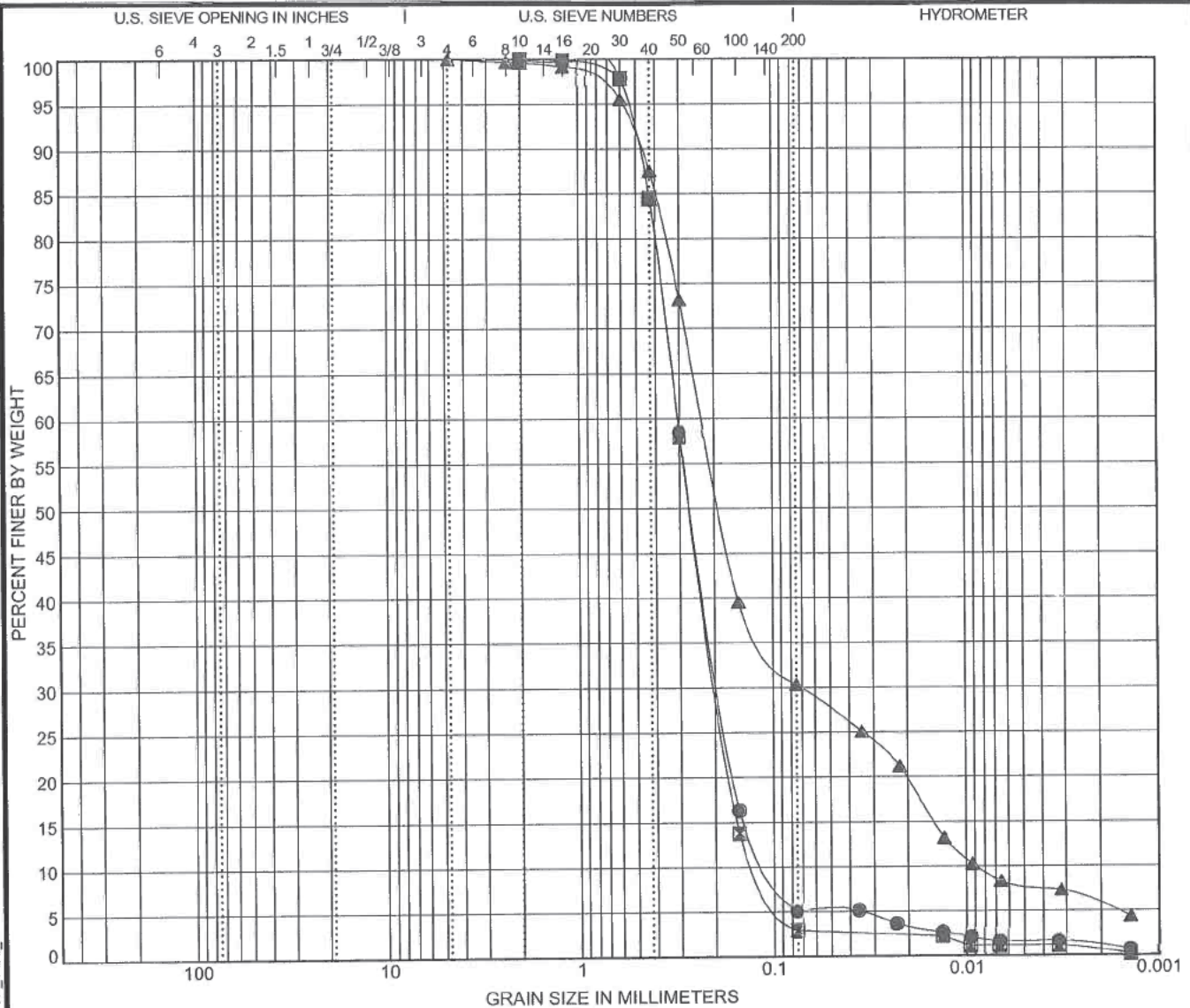
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# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES		GRAVEL		SAND		SILT OR CLAY		
---------	--	--------	--	------	--	--------------	--	--

	BORING ID	DEPTH	% GRAVEL	% SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
●	B-2	0 - 8	0	95	4	1	NP	NP	NP
☒	B-2	9 - 18	0	97	2	1	NP	NP	NP
▲	B-2	20 - 25	0	69	25	6	17	13	4

						Soil Classification*			
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer	Boring ID	Depth	USCS	AASHTO Current/1991
#10	100.0	#10	100.0	#4	100.0	B-2	0 - 8	POORLY GRADED SAND with SILT (SP-SM)	A-3 (0) / (0)
#16	99.98	#16	99.95	#8	99.69				
#30	97.89	#30	97.91	#10	99.63				
#40	84.49	#40	84.52	#16	99.19	B-2	9 - 18	POORLY GRADED SAND (SP)	A-3 (0) / (0)
#50	58.48	#50	58.01	#30	95.53				
#100	16.33	#100	13.76	#40	87.56				
#200	5.08	#200	2.94	#50	73.2	B-2	20 - 25	SILTY, CLAYEY SAND (SC-SM)	A-2-4 (0) / (0)
				#100	39.51				
				#200	30.31				

\* Per Iowa DOT Design Manual, Chapter 200D-1

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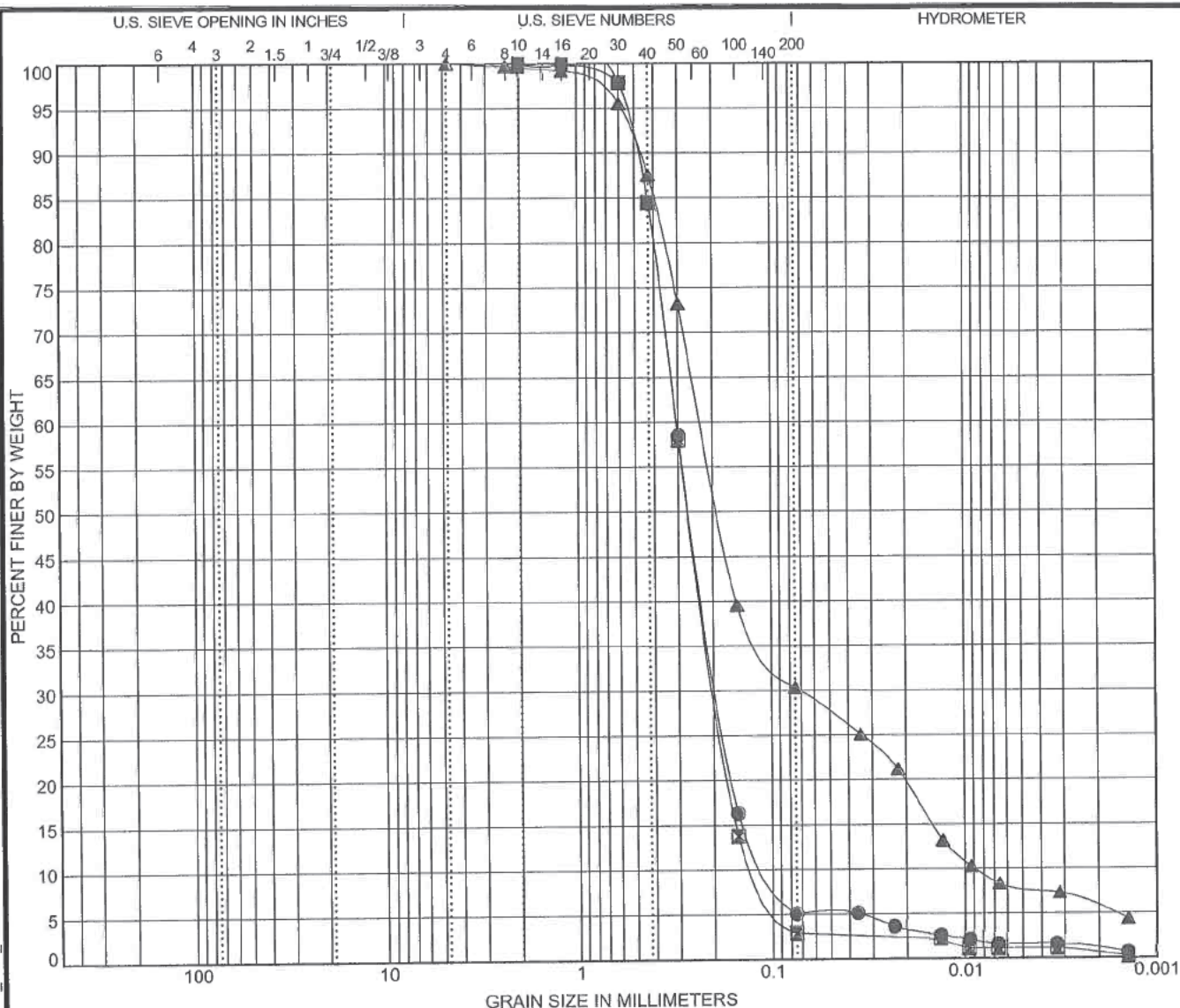
CLIENT: Peterson Contractors, Inc.  
Reinbeck, IA

EXHIBIT: B-1



# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES		GRAVEL		SAND		SILT OR CLAY		
---------	--	--------	--	------	--	--------------	--	--

BORING ID	DEPTH	% GRAVEL	% SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-2	0 - 8	0	95	4	1	NP	NP	NP
B-2	9 - 18	0	97	2	1	NP	NP	NP
B-2	20 - 25	0	69	25	6	17	13	4

Soil Classification*								
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer	Boring ID	Depth	USCS
#10	100.0	#10	100.0	#4	100.0	B-2	0 - 8	POORLY GRADED SAND with SILT (SP-SM)
#16	99.98	#16	99.95	#8	99.69			
#30	97.89	#30	97.91	#10	99.63			
#40	84.49	#40	84.52	#16	99.19			
#50	58.48	#50	58.01	#30	95.53			
#100	16.33	#100	13.76	#40	87.56	B-2	9 - 18	POORLY GRADED SAND (SP)
#200	5.08	#200	2.94	#50	73.2			
				#100	39.51			
				#200	30.31	B-2	20 - 25	SILTY, CLAYEY SAND (SC-SM)

\* Per Iowa DOT Design Manual, Chapter 200D-1

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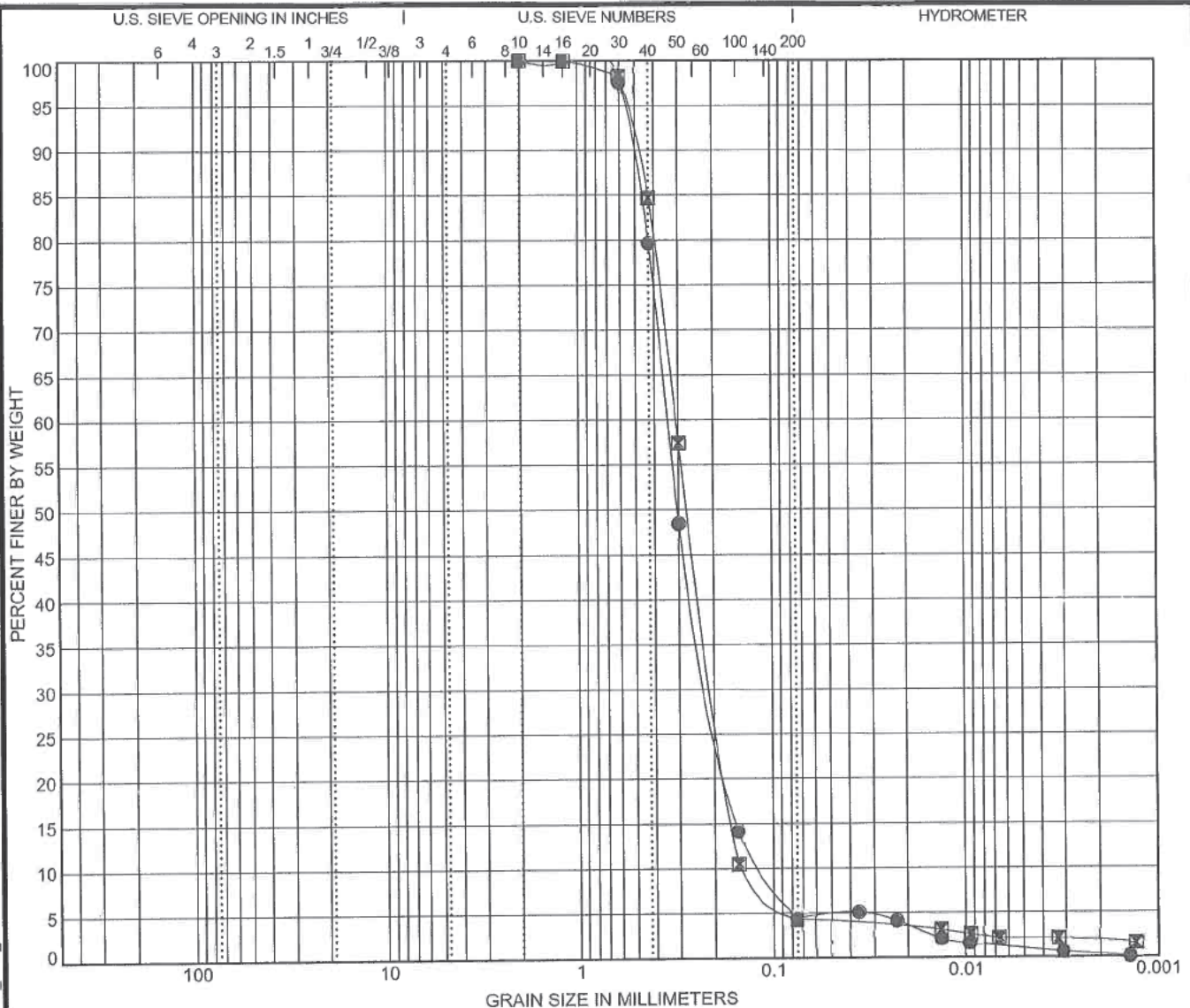
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LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. IADOT-HNTB\_GRAIN\_SIZE\_REPORT 06251002 IOWA DOT BO 103 JOHNSON COUNTY-PENN STREET AND I-380 - BORROW (PCI J24474) GPJ TERRACON\_DATATEMPLATE.GDT 2/20/25

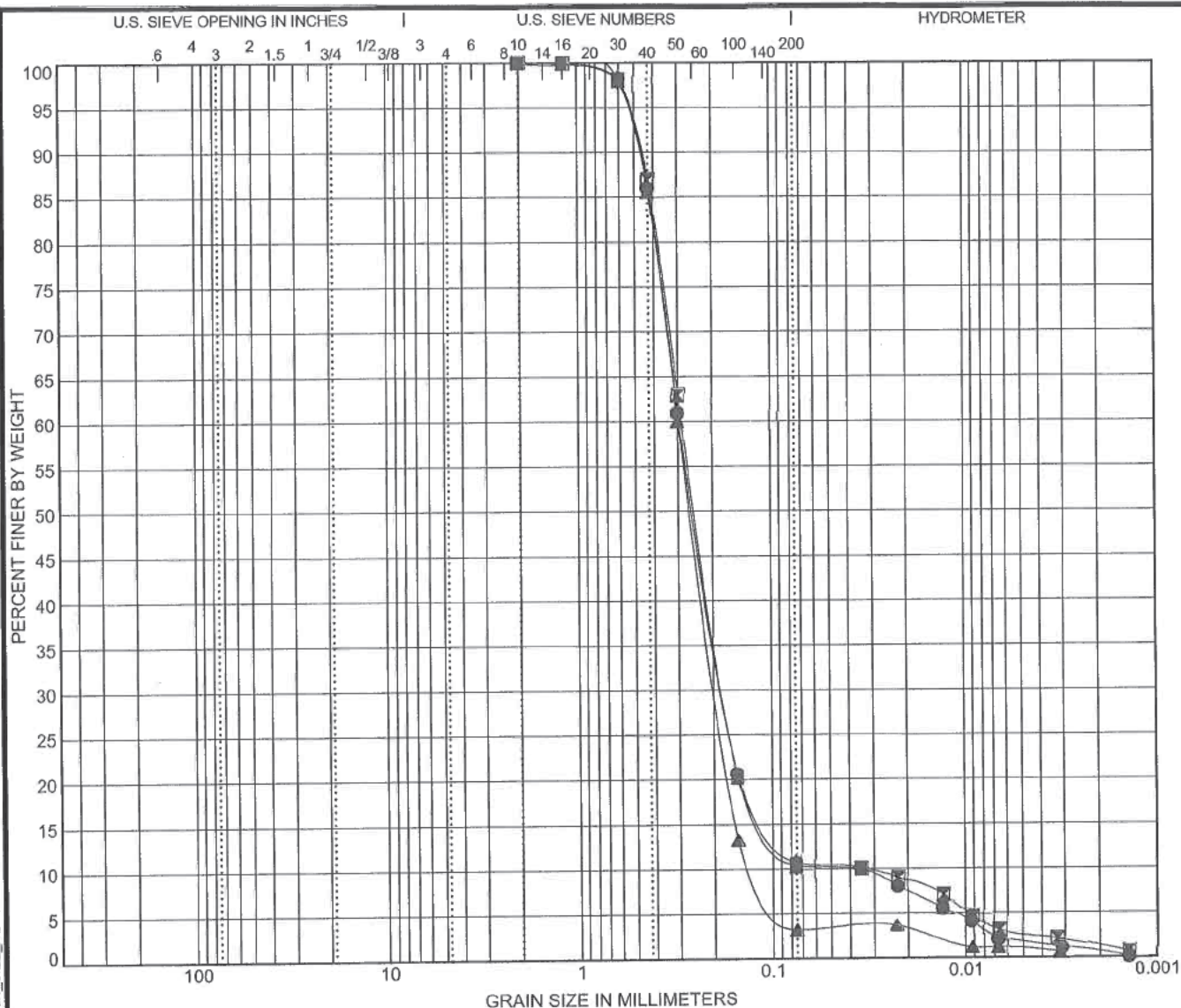
# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



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ASTM D422 / ASTM C136





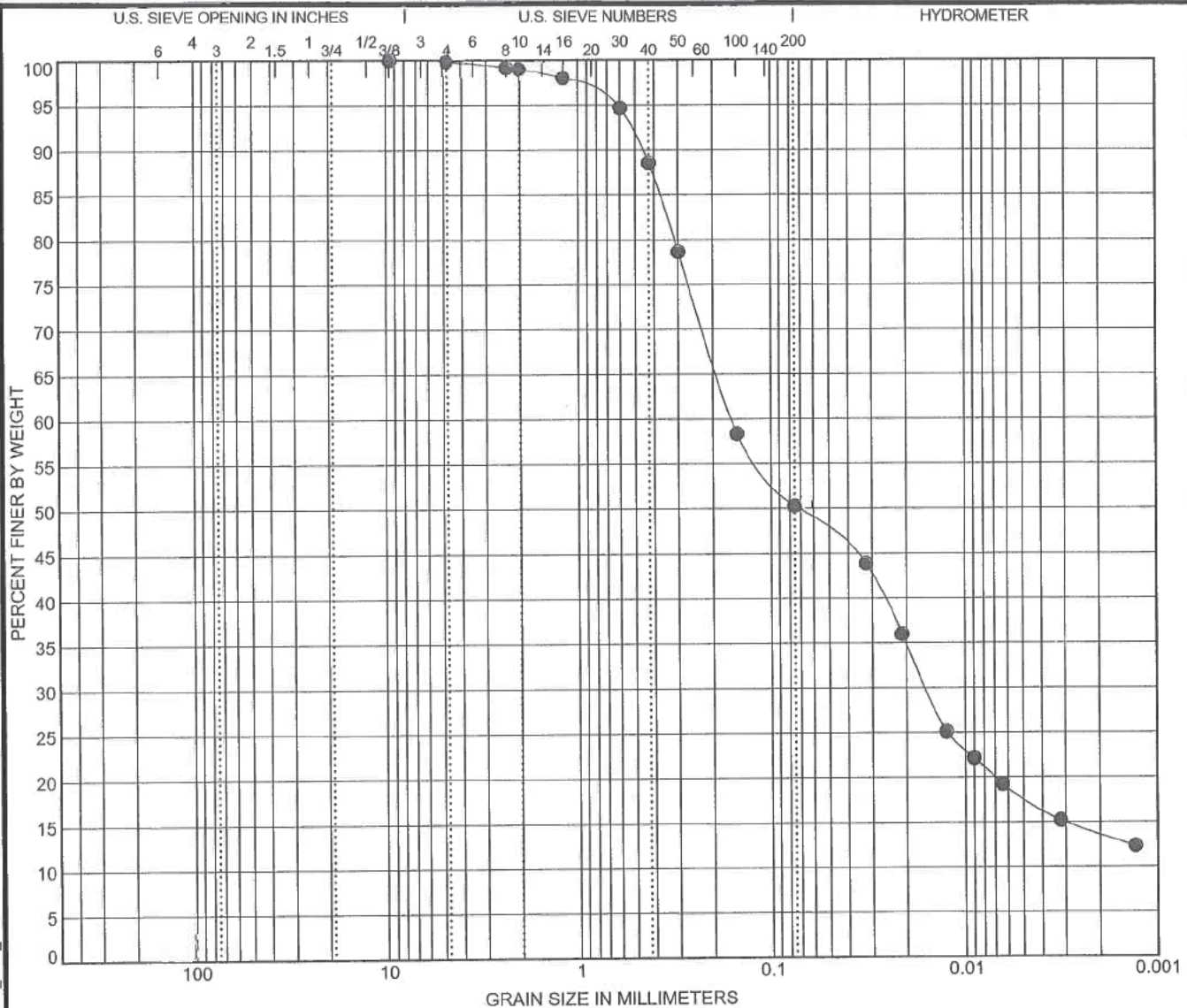




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# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL	SAND	SILT OR CLAY
---------	--------	------	--------------

BORING ID	DEPTH	% GRAVEL	% SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-3	19 - 23	1	49	37	14	24	13	11

						Soil Classification*				
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer	Boring ID	Depth	USCS	AASHTO Current/1991	USDA
3/8"	100.0					B-3	19 - 23	SANDY LEAN CLAY (CL)	A-6 (2) / (3)	LOAM
#4	99.9									
#8	99.19									
#10	99.05									
#16	98.05									
#30	94.65									
#40	88.54									
#50	78.65									
#100	58.35									
#200	50.31									
* Per Iowa DOT Design Manual, Chapter 200D-1										

\* Per Iowa DOT Design Manual, Chapter 200D-1

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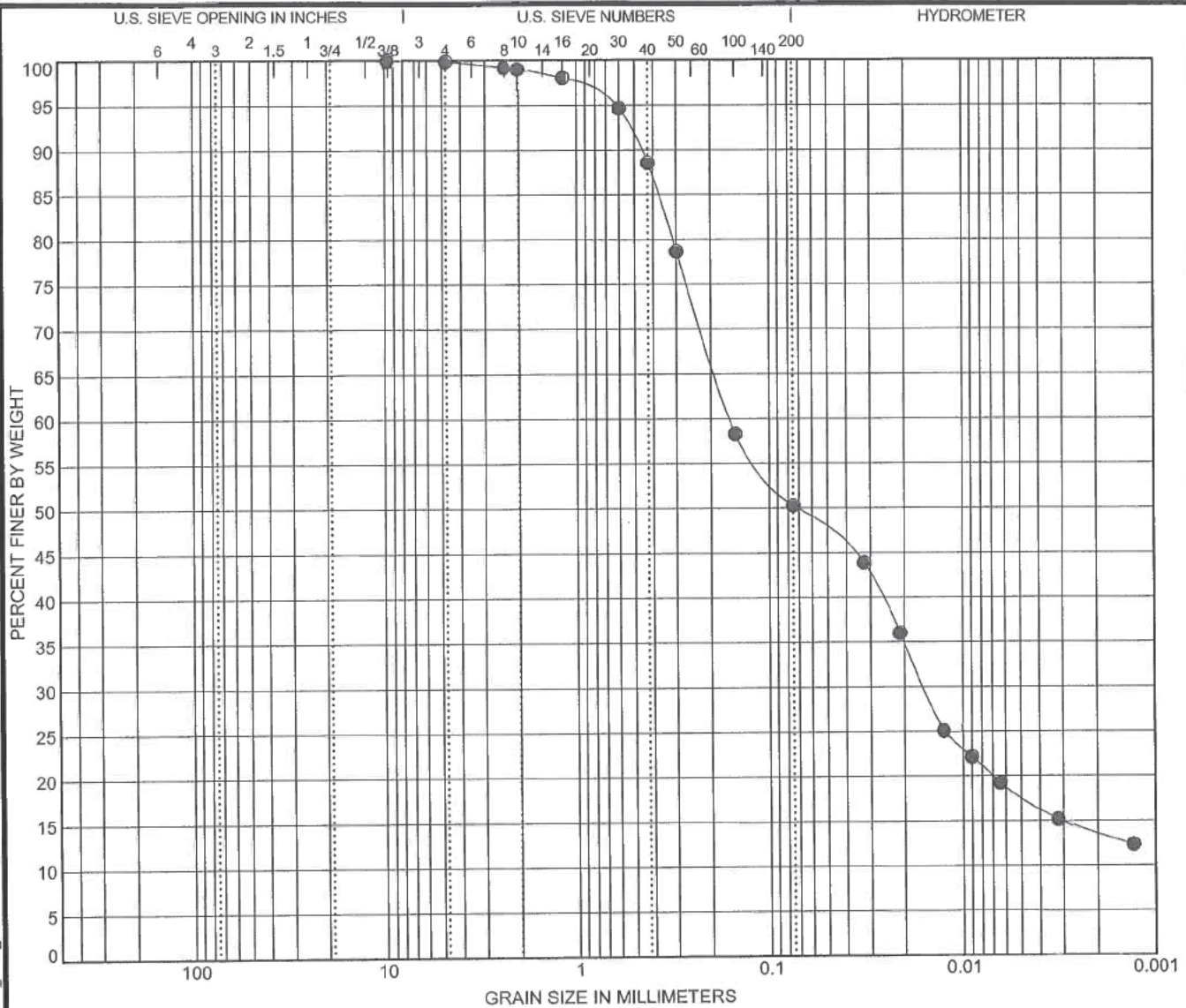
EXHIBIT: B-2



LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. IADOT-HNTB\_GRAIN\_SIZE\_REPORT 06251002 IOWA DOT BO 103 JOHNSON COUNTY-PENN STREET AND I-380 - BORROW (PCI J24474).GPJ TERRACON\_DATATEMPLATE.GDT 2/20/25

# GRAIN SIZE DISTRIBUTION

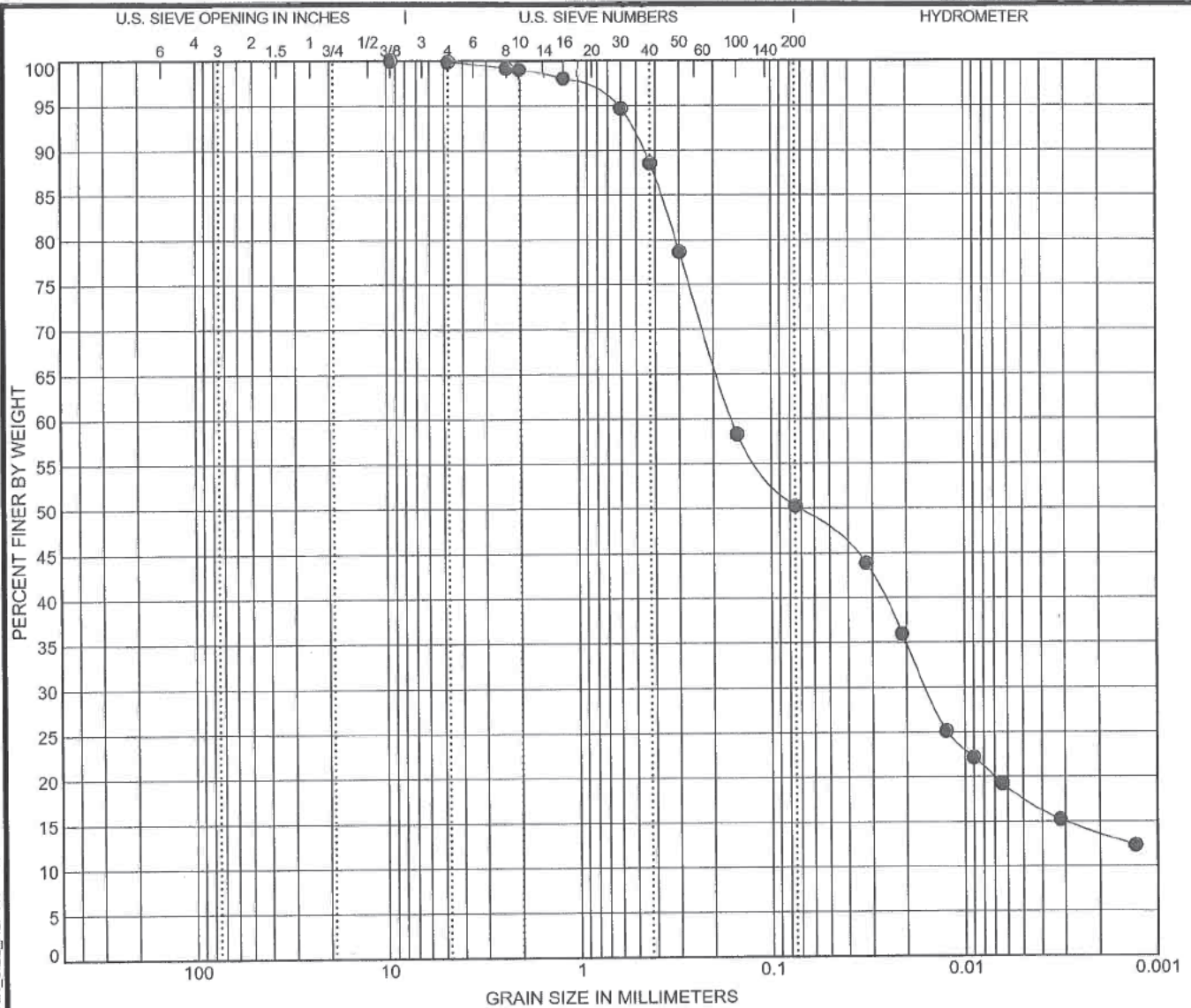
ASTM D422 / ASTM C136



LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. IADOT-HNTB\_GRAIN\_SIZE\_REPORT 06251002 IOWA DOT BO 103 JOHNSON COUNTY-PENN STREET AND I-380 - BORROW (PCI J24474).GPJ TERRACON\_DATATEMPLATE.GDT 2/20/25

# GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL	SAND	SILT OR CLAY
---------	--------	------	--------------

BORING ID	DEPTH	% GRAVEL	% SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-3	19 - 23	1	49	37	14	24	13	11

						Soil Classification*				
Sieve	% Finer	Sieve	% Finer	Sieve	% Finer	Boring ID	Depth	USCS	AASHTO Current/1991	USDA
3/8"	100.0					B-3	19 - 23	SANDY LEAN CLAY (CL)	A-6 (2) / (3)	LOAM
#4	99.9									
#8	99.19									
#10	99.05									
#16	98.05									
#30	94.65									
#40	88.54									
#50	78.65									
#100	58.35									
#200	50.31									
* Per Iowa DOT Design Manual, Chapter 200D-1										

\* Per Iowa DOT Design Manual, Chapter 200D-1

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North Liberty, IA

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Reinbeck, IA

EXHIBIT: B-2

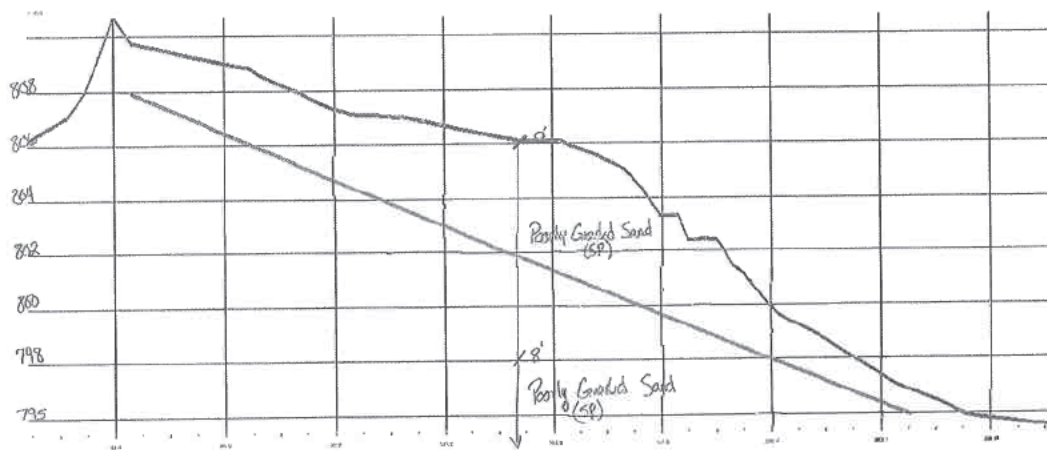
Borings B-1, B-2, and B-3

Terracon Project No. 06251002

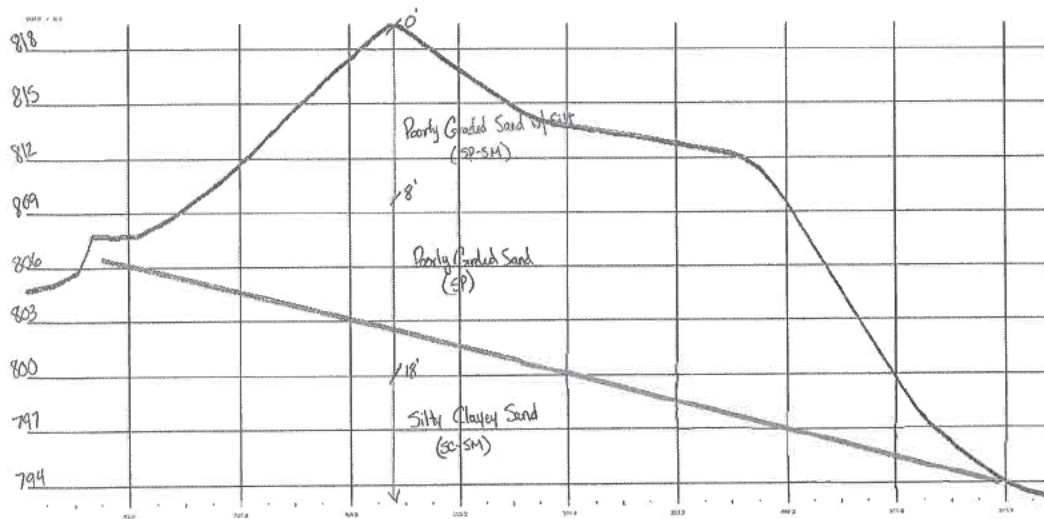
Boring Number	Depth to Top of Sample (ft)	Depth to Bottom of Sample (ft)	Sample Type	LL (%)	PL (%)	PI (%)	Gravel (%) (> 2.0 mm)	Sand (%) (0.075 - 0.075 mm)	Fines (%) (0.075 - 0.002 mm)	Clay (%) (< 0.002 mm)	Proctor Max. Density (lb/ft³)	Proctor Optimum Moisture (%)	USDA Textural Classification	AASHTO Classification	Color	#4 (%)	#10 (%)	#60 (%)	#200 (%)	Soils DOT Classification
B-1	0.0	-8.0	BAG	HP	HP	HP	0	95	4	0	112	11.4	SH	A-2(0)	Brown (7.5YR 4/6) Poorly Graded Sand	100	100	80	4	Select
B-1	-8.0	-15.0	BAG	HP	HP	HP	0	96	2	2	109	12.7	SA	A-3(0)	Brown (7.5YR 4/6) Poorly Graded Sand	100	100	85	4	Substate
B-2	0.0	-8.0	BAG	HP	HP	HP	0	95	4	1	112	11.0	SA	A-3(0)	Brown (7.5YR 5/4) Poorly Graded Sand with silt	100	100	84	5	Select
B-2	-9.0	-18.0	BAG	HP	HP	HP	0	97	2	1	118	7.0	SA	A-3(0)	Brown (7.5YR 5/6) Poorly Graded Sand	100	100	85	3	Select
B-2	-20.0	-25.0	BAG	17	13	4	5	69	25	6	119	12	SA LO	A-2-4(0)	Gray brown (7.5YR 4/1) Silty Clayey Sand	100	100	68	31	Substate
B-3	0.0	-8.0	BAG	HP	HP	HP	0	89	10	1	112	11	SA	A-2-4(0)	Brown (7.5YR 5.5/2) Poorly Graded Sand with silt	100	100	80	11	Select
B-3	-8.0	-13.0	BAG	HP	HP	HP	0	90	0	1	113	8	SA	A-3(0)	Brown (7.5YR 5/4) Poorly Graded Sand with silt	100	100	87	10	Select
B-3	-13.0	-18.0	BAG	HP	HP	HP	0	97			109	13		A-3(0)	Brown (7.5YR 5/6) Poorly Graded Sand	100	100	80	3	Substate
B-3	-19.0	-23.0	BAG	24	13	11	1	49	37	14	114	11	LO	A-6(2)	Brown (7.5YR 3/1) Sandy Lean Clay	100	99	89	51	Select



# BORING 1



# BORING 2



# BORING 3

