

LETTER OF TRANSMITTAL

LANDMARK

ENGINEERING SCIENCES, INC.

119 COOLIDGE AVENUE - SUITE 100, WAUKESHA, WISCONSIN 53186-6602

TELEPHONE:: 414-719-2769

LANDMARK-ENGINEERING@LIVE.COM

To: Kyle Weitemann
JBJ Companies, Inc.
W178N9912 Rivercrest Drive, Suite 101
Germantown, WI 53022-4645

Date: October 20, 2025

Project #: 4244.00 – Lot 9, The Oaks subdivision

Description: *Engineering Services – Residential Construction*
Elmwood Road & Wejegi Drive
Hubertus (Village of Richfield), WI 53033

C: Brian Bence – JBJ Companies
Cindy Schmitt – JBJ Companies

WE ARE SENDING YOU the following items via: ☐ U. S. Mail ☐ UPS ☐ Hand Deliver ☐ Other:
☐ Fax (8 pages) ☒ E-Mail kyle@jbjcompanies.com & brian@jbjcompanies.com & cindy@jbjcompanies.com

Copies/Qty.	Date	Description
1	20 OCT 2025	Report of Field Density Test Results
1	25 APR 2025	Grading Plan - The Oaks Subdivision
1	15-16JUL25	Laboratory Reports – Soil Samples 1 & 2

THESE ARE TRANSMITTED as checked: ☒ For Approval ☐ For Your Use ☐ As Requested
☐ For Review & Comment ☐ Other:

Message:

As requested, we are sending to you the complete field density test report with laboratory test results for Lot 9 of The Oaks subdivision. We performed periodic field density testing on the selected lot between July 22 – September 30, 2025. The purpose for LandMark's field tests were to verify lift compactions at the requested lot location. The required compaction level for the fill soil is 95% of Modified Proctor (ASTM Standard D1557).

The areas tested consisted of Modified Proctor (Sample #1 and Sample #2). Fill material was excavated on-site and placed below the proposed house location. The fill soil lifts tested and/or retested met project specifications for compaction.

We will continue to do field density testing, concrete testing, and site observations, as requested. If you have any additional questions, please call.

We have enjoyed working with you on this project. *Thank you.*

Copy to: file

Signed:



Mark D. Augustine, PE, PLS, CHMM

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

LandMark Engineering Sciences, Inc.

119 Coolidge Avenue, Suite 100
Waukesha, WI 53186-6602
Phone: 414-719-2769
Email: landmark-engineering@live.com

Report of Field Density Test Results

Project: The Oaks at Schmitt Farms - Phase I

Project #: 4244

Report #: 1

Address: between Elmwood Road & Wejegi Drive
Village of Richfield, WI 53033

Client: JBJ Companies, Inc.
W178N9912 Rivercrest Dr, Suite 101
Germantown, WI 53022-4645

Date: 20OCT2025

Test No.	Date	Location	Elev. (feet)	Sample No.	In-Place Moisture (%)	In-Place Density (pcf)	*In-Place Compaction (%)	Remarks
1	22-Jul-2025	Lot 9	1130.8	1	16.7	100.4	76.9%	BD
2	24-Jul-2025	Lot 9 (retest)	1130.8	1	11.9	125.0	95.7%	ACD
3	25-Jul-2025	Lot 9	1131.0	1	7.8	126.4	96.8%	A
4	5-Aug-2025	Lot 9	1133.2	1	7.5	128.2	98.2%	A
5	7-Aug-2025	Lot 9	1134.2	1	11.8	127.4	97.5%	AD
6	20-Aug-2025	Lot 9	1137.4	1	8.9	128.2	98.2%	AE
7								
8								
9								
10								

Elev = Top of Finished Subgrade

*Required Compaction = 95% of Modified Proctor

- A = In-place density complies with specifications
- B = In-place density less than specifications
- C = In-place density after re-compaction
- D = In-place moisture content >2% of optimum
- E = In-place moisture content <2% of optimum

Sample #1

Modified Proctor (ASTM D1557)

Laboratory Report Date: 16-Jul-2025

Maximum Dry Density (rock corrected): 130.6 pcf

Optimum Moisture (rock corrected): 9.4 %

Description: Dark Brown SAND, some Fines, little Gravel

Source: SWMP Pond C2-3 Basin, 2'-4' depth

Sample #2

Modified Proctor (ASTM D1557)

Laboratory report Date: 15-Jul-2025

Maximum Dry Density (rock corrected): 144.4 pcf

Optimum Moisture (rock corrected): 6.6 %

Description: Brown SAND & GRAVEL, some Fines

Source: SWMP Pond C2-3 Basin, 4'-7'

Sample #3

Modified Proctor (ASTM D1557)

Laboratory Report Date: 17-Sep-2025

Maximum Dry Density (rock corrected): 122.9 pcf

Optimum Moisture (rock corrected): 13.1 %

Description: Brown Clayey SILT, little Sand, trace Gravel

Source: Outlot 8

Sample #4

Modified Proctor (ASTM D1557)

Laboratory Report Date: 12-Sep-2025

Maximum Dry Density (rock corrected): 124.4 pcf

Optimum Moisture (rock corrected): 12.2 %

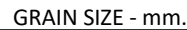
Description: Brown Clayey SILT, little Sand, trace Gravel

Source: Outlot 8

Tested by: UEC - Joseph Schmidt

Reviewed by: MDA

ASTM D422 & D1140

[illegible]

Project No. 25029-1 Project: Proposed Subdivision Elmwood Road Richfield, WI	Client: Landmark Engineering Services, Inc.	Remarks:
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Remarks:

Project No.	25029-1	Client:	Landmark Engineering Services, Inc.
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Project: Proposed Subdivision

Elmwood Road Richfield, WI

○ **Depth: 2'-4'** **Sample Number: 1**

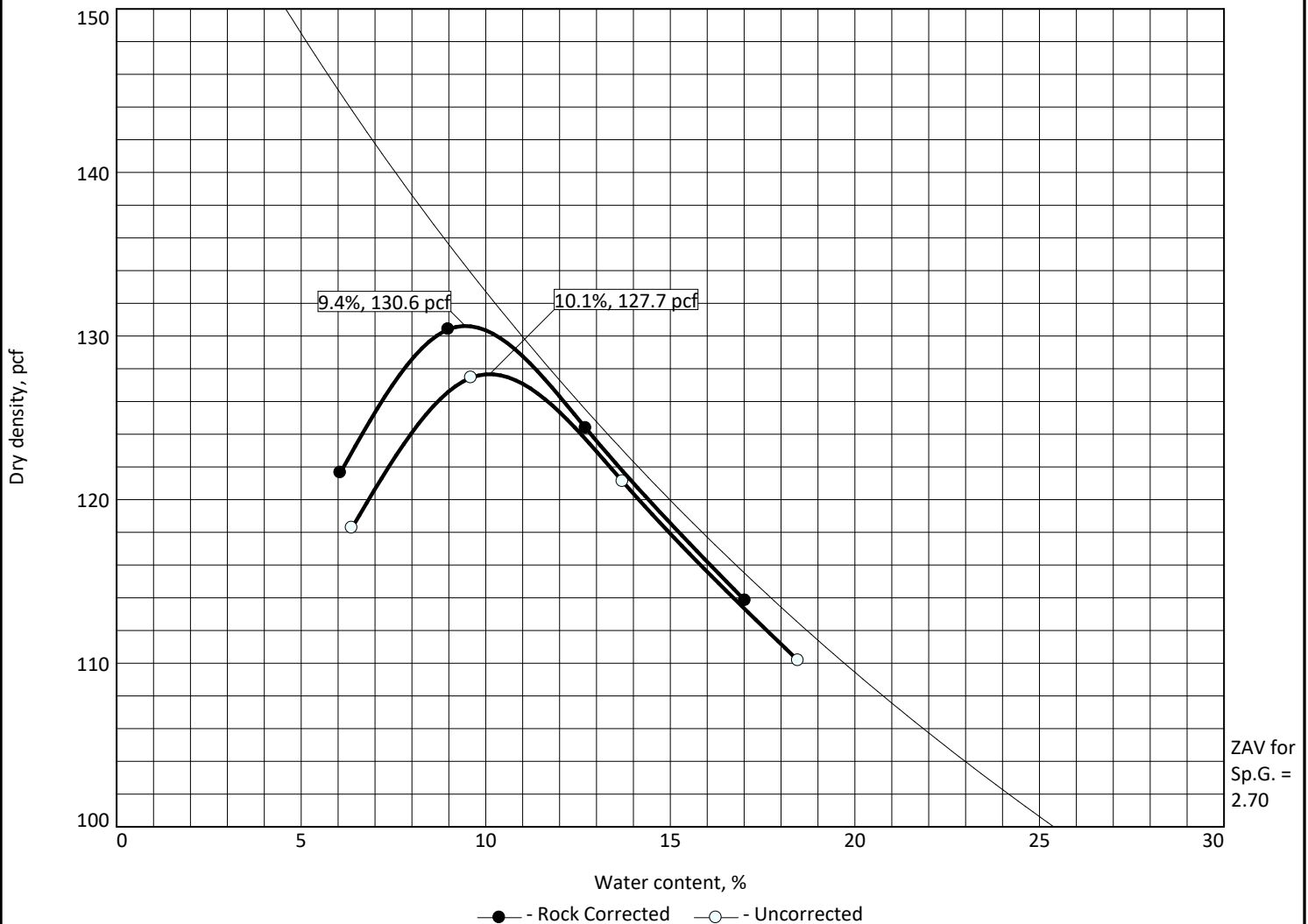


Figure

Tested By: Joseph Schmitz

Checked By: Joseph Schmitz

REPORT OF MOISTURE DENSITY RELATIONSHIP



Test specification: ASTM D 1557-12 Method B Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
2'-4'	SM	A-2-4(0)	16.6	2.7	NV	NP	9.3	22.6

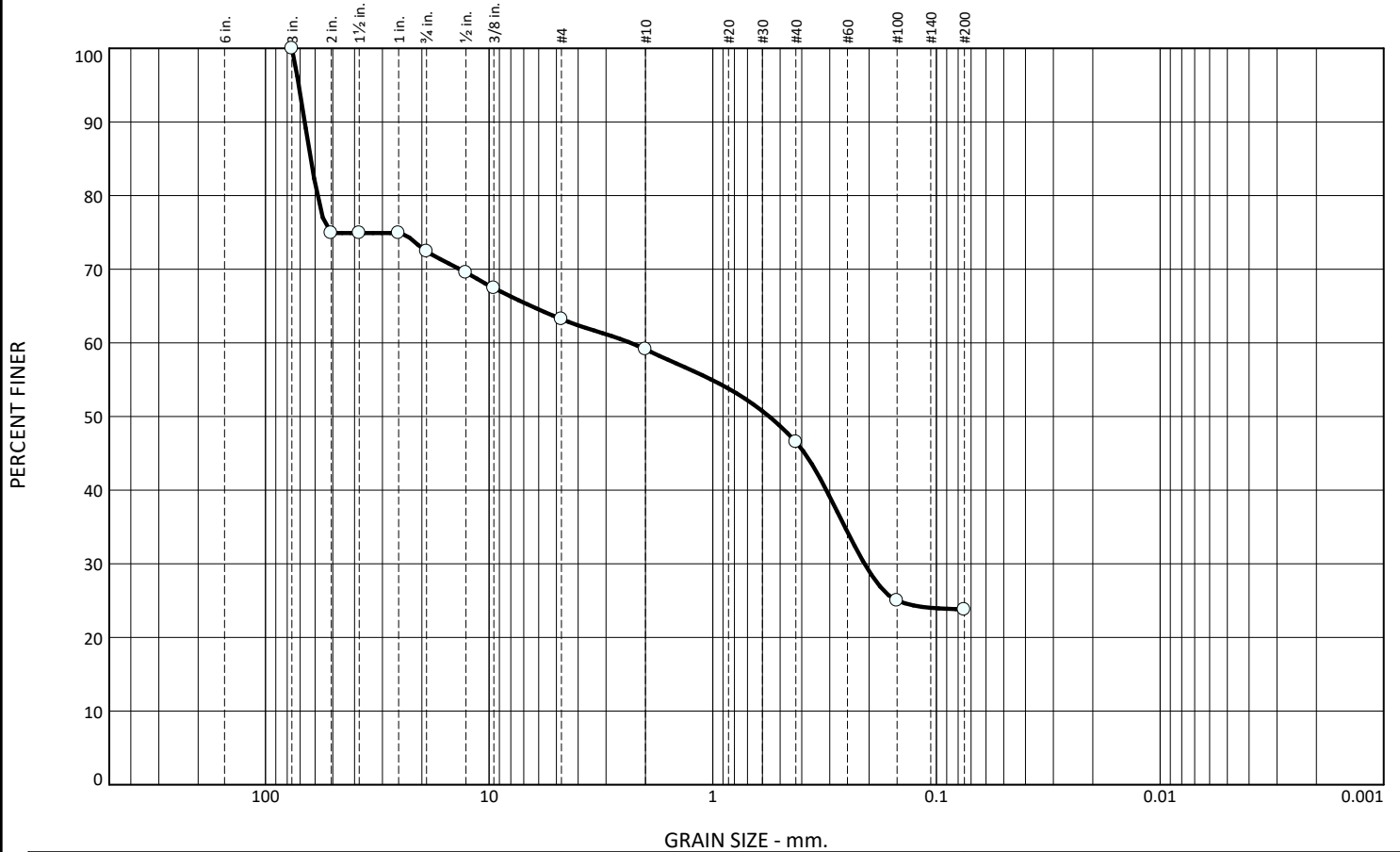
ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 130.6 pcf		127.7 pcf	Dark Brown SAND, some Fines, little Gravel
Optimum moisture = 9.4 %		10.1 %	
Project No. 25029-2 Client: Landmark Engineering Services, Inc. Project: Proposed Subdivision Elmwood Road Richfield, WI Date: 07/16/25 Sample Number: 1			Remarks:
			
			Figure

Figure

Tested By: Joseph Schmitz Checked By: Joseph Schmitz

Particle Size Distribution Report

ASTM D422 & D1140



GRAIN SIZE - mm.									
% +3"	% Gravel		% Sand			% Fines			
	Coarse	Fine	Coarse	Medium	Fine				
0.0	27.6	9.2	4.1	12.6	22.7	23.8			
LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NV	NP	62.7590	2.3265	0.5591	0.2095				

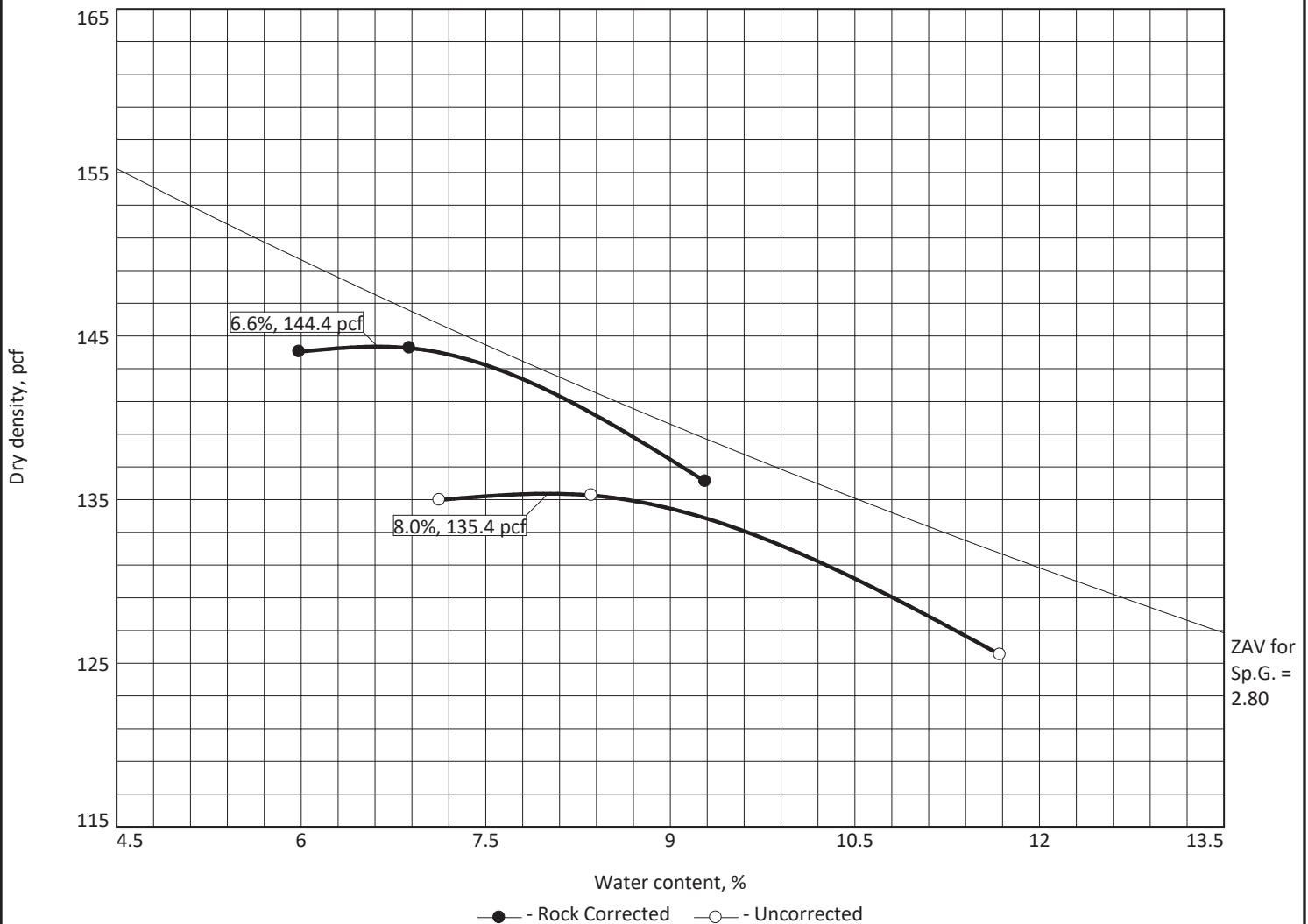
Material Description							Test Date	USCS	NM
Brown SAND and GRAVEL, some Fines							07/15/25	SM	8.9

Project No. 25029-3 Client: Landmark Engineering Services, Inc. Project: Proposed Subdivision Elmwood Road Richfield, WI ☐ Depth: 4'-7' Sample Number: 2	Remarks: 
	

Figure

Tested By: Joseph Schmitz Checked By: Joseph Schmitz

REPORT OF MOISTURE DENSITY RELATIONSHIP



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
4'-7'	SM	A-1-b	8.9	2.8	NV	NP	27.6	23.8

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 144.4 pcf		135.4 pcf	Brown SAND and GRAVEL, some Fines
Optimum moisture = 6.6 %		8.0 %	
Project No. 25029-4Client: Landmark Engineering Services, Inc. Project: Proposed Subdivision Elmwood Road Richfield, WIDate: 07/15/25 Sample Number: 2			Remarks:
UEC			
			Figure

Tested By: Joseph Schmitz

Checked By: Joseph Schmitz