



Alpha Omega Geotech, Inc
1701 State Avenue
Kansas City, KS 66102
Phone: 913-371-0000

Soil Nuclear Gauge

Report Date: 10/22/2021
Test Method: ASTM D 6938

Client:

LSPH Investors, LLC
7939 Floyd Street
Overland Park, KS 66204

Project:

21-390F
Chipotle Lee's Summit
1130 SE Oldham Pkwy
Lee's Summit, MO

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min/Max Comp. (%)	Remark
1		10/22/21	Terracon Proctor 03/09/2021	A	LVC	8.0	129.6	9.2	133.8	146.1	4	103	95 / 105	DP/MP
2		10/22/21	Terracon Proctor 03/09/2021	A	LVC	8.0	129.6	10.7	132.0	146.1	4	102	95 / 105	DP/MP
3		10/22/21	Terracon Proctor 03/09/2021	A	LVC	8.0	129.6	8.6	133.9	145.4	4	103	95 / 105	DP/MP
4		10/22/21	Terracon Proctor 03/09/2021	A	LVC	8.0	129.6	10.3	133.5	147.2	4	103	95 / 105	DP/MP
5		10/22/21	Terracon Proctor 03/09/2021	A	LVC	8.0	129.6	9.4	133.0	145.5	4	103	95 / 105	DP/MP
6		10/22/21	Terracon Proctor 03/09/2021	A	LVC	8.0	129.6	9.4	134.5	147.1	4	104	95 / 105	DP/MP
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
1	Structural Fill: Building Pad: Building pad LVC fill							1st lift		Humboldt / 5001c / 2115 /			Welhoff, Tracy	
2	Structural Fill: Building Pad: Building pad LVC fill							1st lift		Humboldt / 5001c / 2115 /			Welhoff, Tracy	
3	Structural Fill: Building Pad: Building pad LVC fill							2nd lift		Humboldt / 5001c / 2115 /			Welhoff, Tracy	
4	Structural Fill: Building Pad: Building pad LVC fill							2nd lift		Humboldt / 5001c / 2115 /			Welhoff, Tracy	
5	Structural Fill: Building Pad: Building pad LVC fill							final lift		Humboldt / 5001c / 2115 /			Welhoff, Tracy	
6	Structural Fill: Building Pad: Building pad LVC fill							final lift		Humboldt / 5001c / 2115 /			Welhoff, Tracy	
Remarks				Comments										
DP/MP: Density Pass / Moisture Pass				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 11/02/2021

Sample: 2911

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Sample Details

Set #:	1	Technician:	Marquez, Jeff	Batched:	14:36 CDT
Specimen Size:	4" X 8"	Cast By:	Marquez, Jeff	Sampled:	15:04 CDT
Specimens In Set:	5	Date Cast:	10/26/21	Cast:	15:07 CDT
Truck / Ticket #:	466 / 843885	Sampled From:	Chute	Truck Empty:	15:25 CDT
Contractor:	Harmon	Placement Method:	Pump	Placement Time:	49 (min)

Location

Placement Location: Building Exterior - Grade Beam
Location Details: A-B/1-5
Sample Location / Notes: East of johnny

Batch Log

Supplier: Geiger
On-Site Admixtures: None

Specifications

Strength: 3500 (psi)

Field Measurements

Weather: Cloudy
Air Temperature (F): 58
Slump (in): 4-1/2 (ASTM C143)
Concrete Temp (F): 66 (ASTM C1064)
Plastic Unit Weight:
Air Content: 6.3 (ASTM C231)
Load Volume: 9.00 (yd³)

Lab Test Results

Testing Lab: Alpha Omega Geotech, 1701 State Ave, Kansas City, KS, 66102

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
1-1	7	11/02/21	1 / 6	4.00	12.57	38,390	3,050	2		N
1-2	28	11/23/21	1 / 27							
1-3	28	11/23/21	1 / 27							
1-4	28	11/23/21	1 / 27							
1-5	56 H	12/21/21	1 / 55							

Test Age Average Strengths (psi): 7 Day - 3050

Capping Methods

Tested By: DJ Burdick (1)

N: Neoprene

Checked In : 10/27/2021 (1,2,3,4,5)



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



Footing Inspection Report

Alpha Omega Geotech, Inc
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Lee's Summit, MO

Activity Date: 10/26/2021

Technician: Marquez, Jeff

Time In: 11:30

Time Out: 15:30

Temperature (F): 58

Weather: Cloudy

If other, explain: Na

GENERAL OBSERVATIONS

Location of Footings Inspected: Grade beam @ A-B/1-5

Dimensions: 2x3

Depth: 3ft

Allowable Bearing Capacity (psf): 2000

Source Of Allowable Bearing Capacity:
Project Plans

If Project Plans, Sheet No.: S000

FIELD OBSERVATIONS

Visual Description of Material Exposed In Base Of Footing Excavation: Brown lean/fat clay with screenings

Uniform Bearing conditions Throughout 100% Of The Footing Excavation: Yes

Range Of Pocket Penetrometer Readings: 7000-9000

Soft Areas/Soft Underlying Layers of Soil Encountered by Probing with T-Probe: No

Footing Excavation Properly Squared: Yes

Footing Excavation Free Of All Ponded Water: Yes

Are There Non-Compliance Items: No



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Reinforcing Steel Inspection Report

Client:

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Project:

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Lee's Summit, MO

Activity Date: 10/26/2021**Technician:** Marquez, Jeff**Time In:** 11:30**Time Out:** 15:30**Temperature (F):** 58**Weather:** Cloudy

GENERAL OBSERVATIONS

Location of Rebar Inspected: Grade beam @ A-B/1-5**Plans Used:** Structural**Drawing No.:** S100/S200**Rebar Size: Per Approved Drawing:** Yes**Spacing Within Tolerance:** Yes**Supporting System (Specify):** Grey bricks

FIELD OBSERVATIONS

Straight: Yes**Clean:** Yes**Tied:** Yes**Clearance Per Specs:** Yes**Rebar Displaced During Placement:** No**Drill & Epoxy Details (If Applicable):** N/A**Are There Non-Compliance Items:** No



Structural Steel Inspection

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Lee's Summit, MO

Activity Date: 10/28/2021

Inspector: Usnick, Steve

Time In: 12:00

Time Out: 12:30

Temperature (F): 50

Weather: Rain

If other, explain: NA

FIELD OBSERVATIONS

Methods Of Inspection: Visual Welds

Types Of Connection: Fillet

Items Observed: Welds on columns - Shop inspection at Al Stephens Steel

Approximate Amount Of Items Inspected: 100%

Are There Non-Compliance Items: No



General Observation Report

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Activity Date: 10/20/2021

Inspector: Welhoff, Tracy

Time In: 14:00

Time Out: 14:30

Weather: Sunny

If other, explain: N/A

GENERAL OBSERVATIONS

What Was Observed:

Observed proof roll of building pad with a fully loaded tandem axle dump truck. Moderate pumping and rutting was observed during the proof roll. Recommended that crusher run limestone be incorporated into the subgrade until the subgrade stabilizes. The subgrade can then be proof rolled and reevaluated then.



Proofroll Inspection Report

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Lee's Summit, MO

Activity Date: 10/21/2021

Technician: Welhoff, Tracy

Time In: 10:00

Time Out: 10:30

Temperature (F): 60

Weather: Sunny

GENERAL OBSERVATIONS

Proofroll Observations:

Visual Proofroll Acceptance: Yes

Building pad was proof rolled with a fully loaded tandem axle dump truck.

If Yes, Please Explain: No significant pumping or rutting was observed.

Source Of Fill (If Applicable): N/A

Visual Description Of Subgrade: brown/ reddish brown fat clay

Are There Non-Compliance Items: No