Bi-monthly Special Inspection Report



Permit #: PRCOM20222242

Project Address: 540 NE Town Centre Drive Lee's Summit, MO

Project Name: New Building for Indoor Batting Cages

Agency Name: Apex Engineers, Inc

This report covers work completed between 07.16.2022 and 07.31.2022

Bi-monthly Report #:

Date: 08.05.2022

This is to certify that I, or qualified individual working under my direction, inspected and/or tested the following items in accordance with Section 1705 of the 2018 International Building Code:

			3	
Attachments (Concrete Break Re	sults, RFI's, etc.)		Shotcrete	
Placement of Reinforced Concret	te		None - No Inspections made	e
Placement of Shotcrete			Erection of Precast Concret	е
Testing of Reinforced Concrete			Steel Frame Inspection	
Placement of Reinforcing Steel			High Strength Bolting	
Placement of Prestressing Steel			Structural Welding	
Bolts Installed in Concrete			Sprayed Fire Resistant Mat	erials
Post-Installed Anchors			Structural Masonry	
Verification of Soils		<u> </u>	Wood Construction	
Excavation and Filling			Seismic Resistance	
Deep Foundations			Firestop	
Earth-Retaining Structures			Drill & Epoxy	
Detention Basin		INSF	PECTION OF FABRICATOR	<u>RS</u>
EIFS			Metal Building	Structural Steel
Smoke Control		<u> </u>	Wood Construction	Precast Concrete
Other:				

Except where noted in the attached report, the work was found to be in substantial compliance with the city reviewed plans, specifications, and applicable provisions of the Building Code. All daily reports and EOR/AOR resolutions are attached.

m OHers

Signed:

Date:

U8 U8 2U22

Denver, CO 720-588-3222

Kansas City, MO 816-421-3222

PE-2003000 2022.08.00 - NAL ENGINEER Lawrence, KS 785-337-3222

apex-engineers.com

Non-Conforming Items Requiring Resolution



 Permit #:
 PRCOM20222242
 Date:
 07.31.2022

Project Address: 540 NE Town Centre Drive Lee's Summit, MO
Project Name: New Building for Indoor Batting Cages

Agency Name: Apex Engineers, Inc Insp/Engr: Clayton J. Hess

Item	Date	Report	Discrepancy Description	Resolution Date
			None to Report	

See attached details for further clarification



2121 Moodie Road Lawrence, Kansas 66046

NO 🔽

2011 NW Topeka Blvd Topeka, Kansas 66608

785.856.9600 785.270.6447

DAILY FIELD REPORT

CLIENT: Apex Engineers, Inc. 1625 Locust

Kansas City, Missouri 64108

ATTN: Steve Fitch

WEATHER: Sunny

TEMPERATURE: 92

PROJECT: Apex On-Call D-Bats

Lee's Summit, MO

,

DATE: 7/12/22

CFS PERSONNEL: M. Capps

REPORT #: 22-1010-dr-14

DEVIATIONS

DEVIATION YES

- · Field compaction tests performed for building pad.
- · Fill found to be substantial compliance with project plans. Test results attached.



PHONE: 913.627.9040 PHONE: 785.856.9600 PHONE: 785.270.6447

PROJECT: Apex On-Call

FIELD COMPACTION TEST DATA

CLIENT: Apex Engineers, Inc. 1625 Locust

D-Bats Kansas City, Missouri 64108 Lee's Summit, MO

ATTN: Steve Fitch INSPECTOR: M. Capps

DATE: 7/12/2022 REPORT #: 22-1010-dr-14B

TEST NO.	TEST LOCATION	SOIL ID / LAB NO.	DEPTH / ELEV	IN PLACE WET DENSITY (pcf)	IN PLACE DRY DENSITY (pcf)	IN PLACE MOISTURE CONTENT (%)	PERCENT COMPACTION (%)	COMMENT
1	NW Corner Building Pad	L22-121	-4'	115.7	98.9	17.0	101.0	
2	NE Corner Building Pad	L22-121	-4'	107.5	90.8	18.4	92.7	
3	SE Corner Building Pad	L22-121	-1	112.8	92.1	22.5	94.1	
4	Center Building Pad	L22-121	-1	118.3	97.6	21.2	99.7	
5	SW Corner Building Pad	L22-121	-1	118.4	100.5	17.8	102.7	

LAB DATA					SPECIFICATIONS	
SOIL ID/LAB NUMBER:	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	COMPACTION SPEC (%)	MOISTURE RANGE (%)	
L22-121	Reddish Brown Lean to Fat Clay w/ Trace Organics	97.9	19.9	95	-3 / +3	

NUCLEAR DENSITY GUAGE							
Make:	TROXLER						
Model:							
Serial Number:							
Gauge No:							

COMMENTS					
1. Structural Fill	A. Test Results in Substantial Compliance with Project Specifications				
2. General Fill	B. Recompaction Required				
3. Base Course	C. Test is After Recompaction				
4. Trench Backfill	D. Moisture in Excess of Specs.				
5. Other	E. Moisture Below Specs.				

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Field results reported to with

ADDITIONAL COMMENTS

Respectfully Submitted,
COOK, FLATT & STROBEL ENGINEERS, P.A.



2121 Moodie Road Lawrence, Kansas 66046 2011 NW Topeka Blvd Topeka, Kansas 66608

785.856.9600 785.270.6447

DAILY FIELD REPORT

CLIENT: Apex Engineers, Inc. 1625 Locust

Kansas City, Missouri 64108

ATTN: Steve Fitch

WEATHER: Sunny

TEMPERATURE: 71-93

PROJECT: Apex On-Call D-Bats

Lee's Summit, MO

DATE: 7/13/22

CFS PERSONNEL: K. Burnett

REPORT #: 22-1010-dr-15

DEVIATIONS

DEVIATION YES ☐ NO ✓

- · Field compaction tests performed for building pad.
- · Fill found to be substantial compliance with project plans. Test results attached.



PHONE: 913.627.9040 PHONE: 785.856.9600 PHONE: 785.270.6447

FIELD COMPACTION TEST DATA

CLIENT: Apex Engineers, Inc.
1625 Locust
Kansas City Missouri 64108

Kansas City, Missouri 64108

ATTN: Steve Fitch

DATE: 7/13/2022

Lee's Summit, MO

PROJECT: Apex On-Call D-Bats

INSPECTOR: K. Burnett

REPORT #: 22-1010-dr-15B

TEST NO.	TEST LOCATION	SOIL ID / LAB NO.	DEPTH / ELEV	IN PLACE WET DENSITY (pcf)	IN PLACE DRY DENSITY (pcf)	IN PLACE MOISTURE CONTENT (%)	PERCENT COMPACTION (%)	COMMENT
1	NW Corner of Building	L22-121	-3'	123.4	104.2	18.4	106.4	
2	NE Corner of Building	L22-121	-3'	121.7	102.4	18.8	104.6	
3	SE Corner of Building	L22-121	-1.5	116.2	98.7	17.7	100.8	
4	Center of Building	L22-121	-1.5'	117.4	96.7	21.4	98.8	
5	SW Corner of Building	L22-121	-1.5'	121.0	102.0	18.6	104.2	
6	NW Corner of Building	L22-121	-1'	118.0	101.6	16.1	103.8	
7	NE Corner of Building	L22-121	-1'	122.4	98.0	24.9	100.1	
8	SE Corner of Building	L22-121	0	121.1	100.0	21.1	102.1	
9	NE Corner of Building	L22-121	0	118.5	101.0	17.3	103.2	

LAB DATA					SPECIFICATIONS	
SOIL ID/LAB NUMBER:	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	COMPACTION SPEC (%)	MOISTURE RANGE (%)	
L22-121	Reddish Brown Lean to Fat Clay w/ Trace Organics	97.9	19.9	95	-3 / +3	

NUCLEAR DENSITY GUAGE						
Make:	TROXLER					
Model:						
Serial Number:						
Gauge No:						

COMMENTS				
1. Structural Fill	A. Test Results in Substantial Compliance with Project Specifications			
2. General Fill	B. Recompaction Required			
3. Base Course	C. Test is After Recompaction			
4. Trench Backfill	D. Moisture in Excess of Specs.			
5. Other	E. Moisture Below Specs.			

Respectfully Submitted,
COOK, FLATT & STROBEL ENGINEERS, P.A.

Adam McEachron, P.E | Senior Project Engineer

ADDITIONAL COMMENTS

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Field results reported to	
with	



2121 Moodie Road Lawrence, Kansas 66046 2011 NW Topeka Blvd Topeka, Kansas 66608

PROJECT: Apex On-Call

D-Bats

785.856.9600 785.270.6447

DAILY FIELD REPORT

CLIENT: Apex Engineers, Inc. 1625 Locust Kansas City, Missouri 64108

, Missouri 64108 Lee's Summit, MO

ATTN: Steve Fitch DATE: 7/14/22

WEATHER: Sunny CFS PERSONNEL: K. Burnett

TEMPERATURE: 77-99 REPORT #: 22-1010-dr-16

DEVIATIONS

DEVIATION YES \(\square\) NO \(\sqrt{}

- · Field compaction tests performed for building pad.
- · Fill found to be substantial compliance with project plans. Test results attached.



PHONE: 913.627.9040 PHONE: 785.856.9600 PHONE: 785.270.6447

PROJECT: Apex On-Call

FIELD COMPACTION TEST DATA

CLIENT: Apex Engineers, Inc. 1625 Locust

D-Bats Kansas City, Missouri 64108 Lee's Summit, MO

ATTN: Steve Fitch INSPECTOR: K. Burnett

DATE: 7/14/2022 REPORT#: 22-1010-dr-16B

TEST NO.	TEST LOCATION	SOIL ID / LAB NO.	DEPTH / ELEV	IN PLACE WET DENSITY (pcf)	IN PLACE DRY DENSITY (pcf)	IN PLACE MOISTURE CONTENT (%)	PERCENT COMPACTION (%)	COMMENT
1	75' N and 30' E of SW Corner	L22-121	0	118.8	99.3	19.6	101.4	
2	20' S and 20' E of NW Corner	L22-121	0	121.4	101.3	19.8	103.5	
3	25' S and 100' E of NW Corner	L22-121	0	123.7	103.8	19.2	106.0	
4	50' N and 20' W of SE Corner	L22-121	0	118.6	97.6	21.5	99.7	

	SPECIFI	CATIONS			
SOIL ID/LAB NUMBER:	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	COMPACTION SPEC (%)	MOISTURE RANGE (%)
L22-121	Reddish Brown Lean to Fat Clay w/ Trace Organics	97.9	19.9	95	-3 / +3

NUCLEAR DENSITY GUAGE							
Make:	TROXLER						
Model:	3430						
Serial Number:	25000						
Gauge No:	4						

COMMENTS					
1. Structural Fill	A. Test Results in Substantial Compliance with Project Specifications				
2. General Fill	B. Recompaction Required				
3. Base Course	C. Test is After Recompaction				
4. Trench Backfill	D. Moisture in Excess of Specs.				
5. Other	E. Moisture Below Specs.				

Adam McEachron, P.E | Senior Project Engineer

All results and observations relate only to the items inspected or tested	This report shall not be
reproduced, except in full, without the prior written appro-	/al of CFS.

ADDITIONAL COMMENTS

Field results reported to Respectfully Submitted,
COOK, FLATT & STROBEL ENGINEERS, P.A. with



2121 Moodie Road Lawrence, Kansas 66046 2011 NW Topeka Blvd Topeka, Kansas 66608

785.856.9600 785.270.6447

DAILY FIELD REPORT

CLIENT: Apex Engineers, Inc. 1625 Locust Kansas City, Missouri 64108

Lee's Summit, MO

ATTN: Steve Fitch

DATE: 7/20/22

PROJECT: Apex On-Call

D-Bats

WEATHER: Sunny

CFS PERSONNEL: L. Myers

TEMPERATURE: 95 REPORT #: 22-1010-dr-17

DEVIATIONS

DEVIATION YES NO

- · Field compaction tests performed for building pad, including retests of #2 and #3 on 7/12/2022.
- · Fill found to be substantial compliance with project plans. Test results attached.

PHONE: 913.627.9040 PHONE: 785.856.9600 PHONE: 785.270.6447

FIELD COMPACTION TEST DATA

CLIENT: Apex Engineers, Inc. 1625 Locust Kansas City, Missouri 64108 PROJECT: Apex On-Call
D-Bats
Lee's Summit, MO

ATTN: Steve Fitch

INSPECTOR: L. Myers

DATE: 7/20/2022

REPORT #: 22-1010-dr-17B

TEST NO.	TEST LOCATION	SOIL ID / LAB NO.	DEPTH / ELEV	IN PLACE WET DENSITY (pcf)	IN PLACE DRY DENSITY (pcf)	IN PLACE MOISTURE CONTENT (%)	PERCENT COMPACTION (%)	COMMENT
1	Building Pad 1st Lift	L22-121	-3'	121.2	97.9	23.8	100.0	1A
2	Building Pad 1st Lift	L22-121	-3'	115.2	92.3	24.8	95.0	1A
3	Building Pad 1st Lift	L22-121	-1'	116.6	96.4	21.0	98.5	1A

	SPECIFICATIONS				
SOIL ID/LAB NUMBER:	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	COMPACTION SPEC (%)	MOISTURE RANGE (%)
L22-121	Reddish Brown Lean to Fat Clay w/ Trace Organics	97.9	19.9	95	-3 / +3

NUCLEAR DENSITY GUAGE							
Make:	TROXLER						
Model:	3430						
Serial Number:	69469						
Gauge No:	11						

COMMENTS						
1. Structural Fill	A. Test Results in Substantial Compliance with Project Specifications					
2. General Fill	B. Recompaction Required					
3. Base Course	C. Test is After Recompaction					
4. Trench Backfill	D. Moisture in Excess of Specs.					
5. Other	E. Moisture Below Specs.					

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reproduced, except in fail, without the prior written approval of CF3.

ADDITIONAL COMMENTS

Respectfully Submitted,
COOK, FLATT & STROBEL ENGINEERS, P.A.

Field results reported to Mike

with D-Bats



PHONE: 913.627.9040 PHONE: 785.856.9600 PHONE: 785.270.6447

FIELD COMPACTION TEST DATA

CLIENT: Apex Engineers, Inc. 1625 Locust

D-Bats Kansas City, Missouri 64108 Lee's Summit, MO

ATTN: Steve Fitch INSPECTOR: K. Burnett

DATE: 7/21/2022 REPORT #: 22-1010-dr-18B

TEST NO.	TEST LOCATION	SOIL ID / LAB NO.	DEPTH / ELEV	IN PLACE WET DENSITY (pcf)	IN PLACE DRY DENSITY (pcf)	IN PLACE MOISTURE CONTENT (%)	PERCENT COMPACTION (%)	COMMENT
1	NW Corner of Building	LS	-1.5	134.0	125.1	7.1	96.8	1A
2	SW Corner of Building	LS	-1.5	134.6	122.7	9.7	95.0	1A
3	SE Corner of Building	LS	-1.5	132.5	122.7	8.0	95.0	1A
4	NE Corner of Building	LS	-1.5	141.3	128.5	10.0	99.5	1A
5	SW Corner of Building	LS	-1	145.4	132.0	10.2	102.2	1A
6	NW Corner of Building	LS	-1	138.2	129.6	6.6	100.3	1A

LAB DATA			SPECIFICATIONS		
SOIL ID/LAB NUMBER:	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	COMPACTION SPEC (%)	MOISTURE RANGE (%)
L22-121	Reddish Brown Lean to Fat Clay w/ Trace Organics	97.9	19.9	95	-3 / +3
LS	Limstone Screenings	129.2	8.8	95	

NUCLEAR DENSITY GUAGE				
Make:	TROXLER			
Model:	3430			
Serial Number:	31283			
Gauge No:	9			

COMMENTS				
1. Structural Fill	A. Test Results in Substantial Compliance with Project Specifications			
2. General Fill	B. Recompaction Required			
3. Base Course	C. Test is After Recompaction			
4. Trench Backfill	D. Moisture in Excess of Specs.			
5. Other	E. Moisture Below Specs.			

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ADDITIONAL COMMENTS

PROJECT: Apex On-Call

Respectfully Submitted, COOK, FLATT & STROBEL ENGINEERS, P.A. Field results reported to



2121 Moodie Road Lawrence, Kansas 66046 2011 NW Topeka Blvd Topeka, Kansas 66608

PROJECT: Apex On-Call

DATE: 7/22/22

D-Bats

Lee's Summit, MO

785.856.9600 785.270.6447

DAILY FIELD REPORT

CLIENT: Apex Engineers, Inc. 1625 Locust Kansas City, Missouri 64108

/, Missouri 64108

ATTN: Steve Fitch

WEATHER: Sunny CFS PERSONNEL: K. Burnett

TEMPERATURE: 77-99 REPORT #: 22-1010-dr-20

DEVIATIONS

DEVIATION YES \(\square\) NO \(\sqrt{}

- · Field compaction tests performed for building.
- · Fill found to be substantial compliance with project plans. Test results attached.



PHONE: 913.627.9040 PHONE: 785.856.9600 PHONE: 785.270.6447

FIELD COMPACTION TEST DATA

CLIENT: Apex Engineers, Inc. 1625 Locust Kansas City, Missouri 64108 PROJECT: Apex On-Call
D-Bats
Lee's Summit, MO

ATTN: Steve Fitch

INSPECTOR: K. Burnett

DATE: 7/22/2022

REPORT #: 22-1010-dr-22B

TEST NO.	TEST LOCATION	SOIL ID / LAB NO.	DEPTH / ELEV	IN PLACE WET DENSITY (pcf)	IN PLACE DRY DENSITY (pcf)	IN PLACE MOISTURE CONTENT (%)	PERCENT COMPACTION (%)	COMMENT
1	NE Corner of Building	LS	-1	140.9	130.2	8.2	100.8	3A
2	SE Corner of Building	LS	-1'	140.9	131.4	7.2	101.7	3A
3	NW Corner of Building	LS	-0.5	139.9	130.9	6.9	101.3	3A
4	SW Corner of Building	LS	-0.5	133.8	124.6	7.4	96.4	3A
5	NE Corner of Building	LS	-0.5	142.0	130.3	9.0	100.9	3A
6	NW Corner of Building	LS	0	143.9	132.8	8.4	102.8	3A
7	SW Corner of Building	LS	0	143.5	131.9	8.8	102.1	3A
8	NE Corner of Building	LS	0	144.1	133.8	7.7	103.6	3A

LAB DATA			SPECIFICATIONS		
SOIL ID/LAB NUMBER:	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	COMPACTION SPEC (%)	MOISTURE RANGE (%)
L22-121	Reddish Brown Lean to Fat Clay w/ Trace Organics	97.9	19.9	95	-3 / +3
LS	Limstone Screenings	129.2	8.8	95	

NUCLEAR DENSITY GUAGE				
Make:	TROXLER			
Model:	3430			
Serial Number:	31283			
Gauge No:	9			

COMMENTS				
1. Structural Fill	A. Test Results in Substantial Compliance with Project Specifications			
2. General Fill	B. Recompaction Required			
3. Base Course	C. Test is After Recompaction			
4. Trench Backfill	D. Moisture in Excess of Specs.			
5. Other	E. Moisture Below Specs.			

ADDITIONAL COMMENTS		

Respectfully Submitted,
COOK, FLATT & STROBEL ENGINEERS, P.A.

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Field results reported to ______ with

MOISTURE-DENSITY RELATIONSHIP 1100 W Cambridge Circle Drive Kansas City, KS 66103 CLIENT Apex Engineers, Inc. PROJECT NAME D-Bats PROJECT NUMBER 22-1010 PROJECT LOCATION 520 NE Town Centre Dr., Lee's Summit, MO 130 125 L22-121 1.0 Source of Material Reddish Brown Lean to Fat Clay Description of Material w/ Trace Organics 120 **ASTM D698 Method A** Test Method COMPACTION - GINT STD US LAB.GDT - 7/20/22 08:49 - G./SHARED DRIVES/221010/GEOTECH/EXPLORATION REPORTS/22-1010 APEX ON CALL PROCTORS.GPJ 115 **TEST RESULTS** 97.9 PCF Maximum Dry Density 19.9 % **Optimum Water Content** 110 DRY DENSITY, pcf ATTERBERG LIMITS 105 LL Ы 42 100 Curves of 100% Saturation for Specific Gravity Equal to: 2.80 95 2.70 2.60 90 85 80 75 10 20 30 40 15 25 35 45 WATER CONTENT, %