On-Site Testing

GMAX Impact Evaluation

New England Turf Management

Project Information

Customer:	Fairfield Public Schools/ Ward HS		
Site Address:	755 Melville Ave Fairfield CT	Field Info	Ward Synthetic Turf Field
Report Date:	6/25/2026	Test Date	6/25/2026
Report Status:	Complete	Job/ PO#	26500768
Prepared By:	Ken Ordonez		
Checked By:	Roger Clough		

within the limitations of the resources devoted to it.

2. This report is confidential to the Client and New England Turf Management accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

3. This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final".

Summary

New England Turf Management was commissioned to perform on-site Gmax impact testing per ASTM F1936. A complete test was performed in accordance with the ASTM F1936 Standard. The results have been summarized in the quick reference table below. Complete results and background can be found in the subsequent sections of this report.

Quick Results Table

	Average	(min)	range	(max)	Max score per ASTM
GMAX (g's)	148.35	130	to	189	200
Infill Depth (mm)	35.9	31	to	40	N/A

Report Table of Contents

Project Information.....pg 1

Quick Results Table.....pg 1

General Information.....pg 2

Method of Testing.....pg 3

Results Table.....pg 4

Location Photos.....pg 5~10

General Information

Testing Device	ASTM F1936 Apparatus TRIAX 2010 Data Acquisition	**Test Method**	GMAX
Install Date	unknown	**Test Date**	6/25/2026
Field Orientation	Location #9 = northwest	**Primary Sport**	Football
Test Specification	ASTM F1936	**Infill System**	Crumb Rubber
Underlayment	Unknown	**Air Temp (°F)**	80
Turf Cover %	100	**Weather Conditions**	Sunny
Average GMAX Score	148.35	**Humidity %**	42
PASS/ FAIL	Pass	**Technician**	Ken Ordonez

Explanation of Testing Methods and Procedures

Method Background ASTM F355 Procedure A and ASTM F1936 are test methods used to measure the impact attenuation properties of synthetic turf playing systems. ASTM F355 Procedure A covers the overall test method and ASTM 1936 specifies the method for measurement in the field on an installed synthetic turf playing surface.

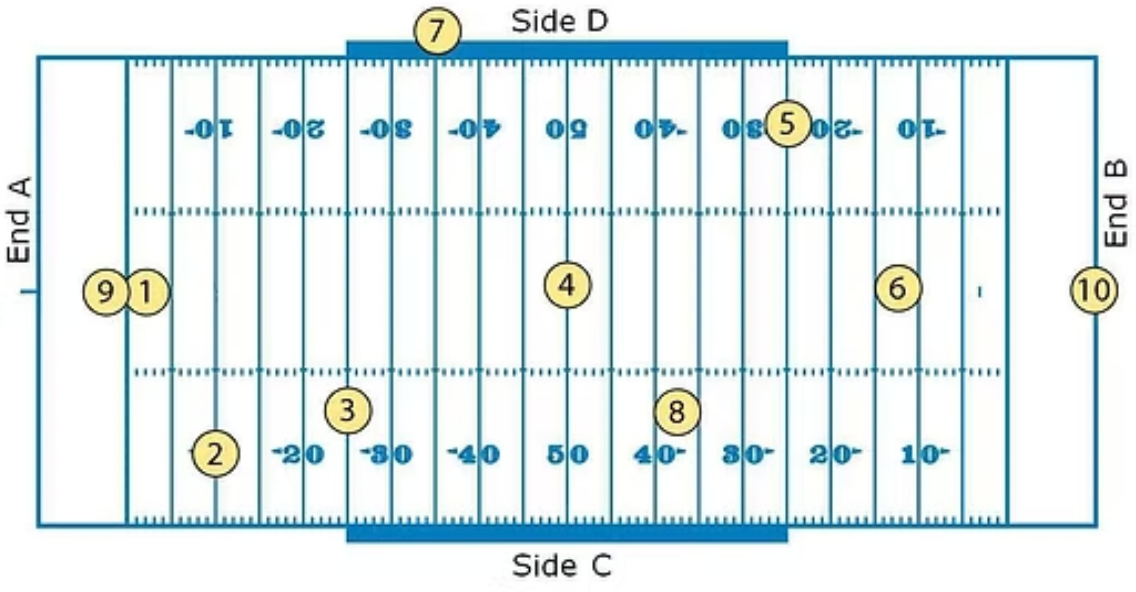
The test procedure involves dropping a 20 lb impacting missile three times at each location from a consistent height of 24 inches. The test is typically performed at 10 locations. The locations are based on the primary sport and the discretion of the tester. The first drop conditions / compacts the loose infill. This value is recorded but not included in the location average. The second and third drops are recorded and averaged for the location average. The location averages are used to determine the field average.

The impacting missile contains an accelerometer sensor that measures the magnitude of deceleration (measured in units of gravity or g's) for the duration of impact. The deceleration measured during impact creates a curve. The peak of that curve is referred to as the "Gmax". This is the primary value measured with this test. The maximum allowable Gmax as specified in the current ASTM F1936 test specification is 200 g's.

Results Table

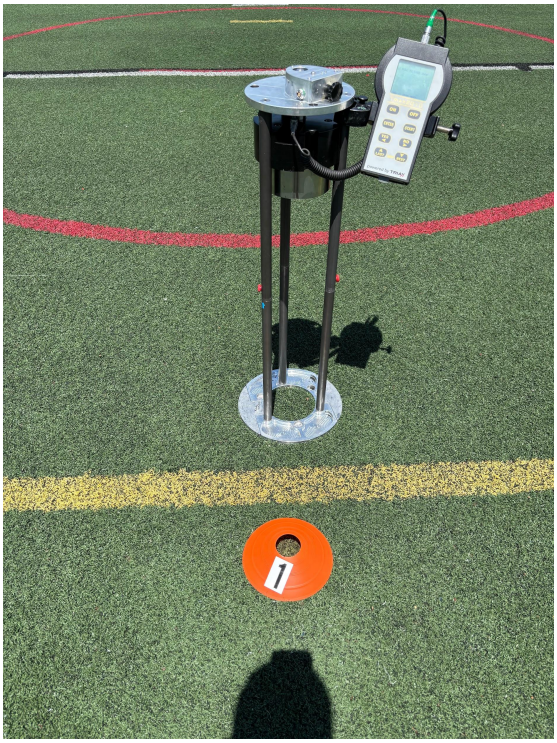
Location #	Drop #1 G's	Drop #2 G's	Drop #3 G's	GMAX Average (G's)	Infill Depth (mm)	Surface Temp (°F)
Location #1	135.00	143.00	151.00	147	38.00	135.00
Location #2	131.00	142.00	143.00	142.5	37.00	124.00
Location #3	138.00	143.00	154.00	148.5	37.00	124.00
Location #4	144.00	159.00	155.00	157	31.00	136.00
Location #5	125.00	134.00	138.00	136	34.00	145.00
Location #6	179.00	189.00	187.00	188	37.00	136.00
Location #7	144.00	146.00	149.00	147.5	35.00	130.00
Location #8	134.00	143.00	149.00	146	40.00	134.00
Location #9	130.00	140.00	140.00	140	36.00	129.00
Location # 10	118.00	130.00	132.00	131	34.00	143.00

Location Map

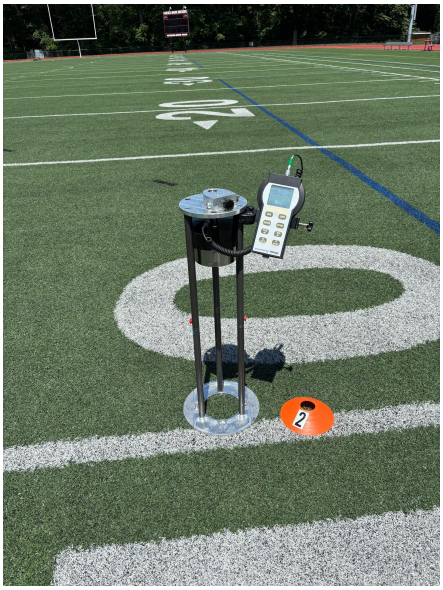


Site Photo

Location #1

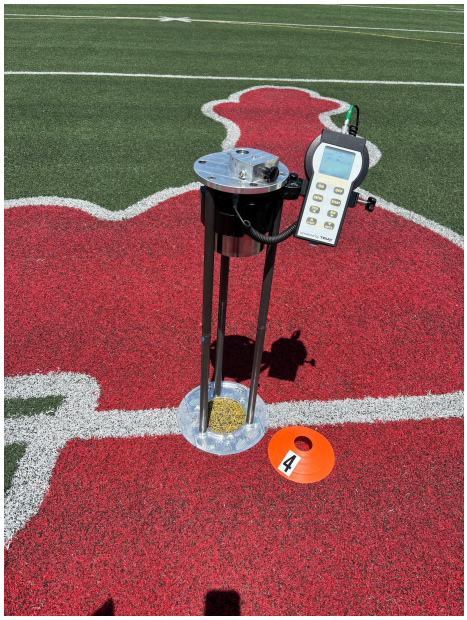


Location #2



Location #3

Location #4



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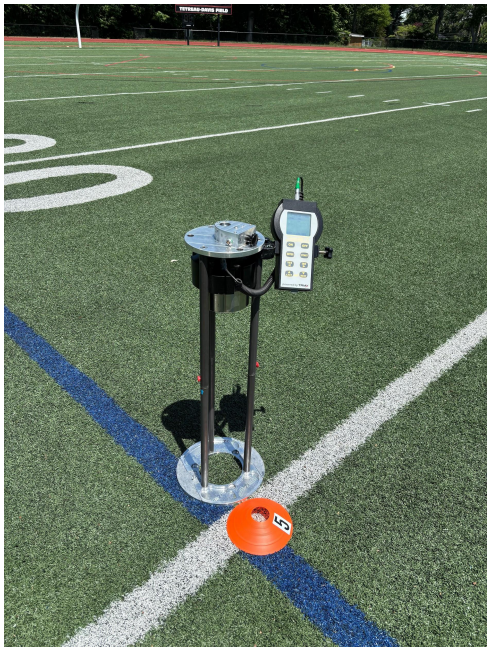
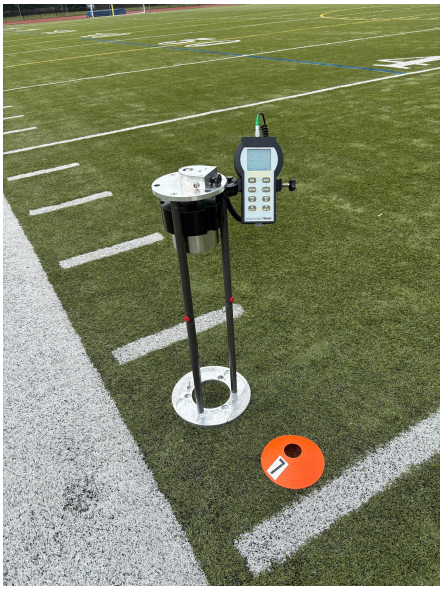


Location #6

Location #7



Location #8

Location #9

Location #10

Technician Notes

The field is in good shape. I added infill to low areas.

Time In: 8:30 AM

Checked for Quality By: Roger Clough

Date: 6/25/2026