

GEORGE MASON UNIVERSITY**Request for Proposal****RFP GMU-1675-21****ADD-ON SERVICES LIST****FEE SCHEDULE**

Attachment E

Item #	Description	Unit of Measure	Description of Service	Price
1	Slice Aerification: Performed with a Toro 687 Slicer or equivalent to relieve shallow soil compaction and stimulate new growth of stolons and rhizomes.	1,000 Square Feet	The blades of the Toro 687 Slicer are mounted on a floating head that allows for ground contour at three separate points. The weight design of the machine allows for specific depth control in all soil conditions. Slicing makes channels that allow water and air to reach the root system and slicing cuts the lateral stems (Rhizomes and Stolons) of the Bermudagrass to encourage new lateral growth.	
2	Pro-Core Aeration: Performed with a Toro Pro-Core 1298 Aerator or equivalent using 3" long x 3/4" diameter side-eject hollow tines to relieve compaction on heavily trafficked fields with soil profiles high in silt and/or clay by pulling plugs that can be redistributed to the field surface.	1,000 Square Feet	The tines of the Pro-Core 1298 Aerator make no less than 28 and up to 49 holes per square foot. The more holes, the better establishment of grass including new seed or sprigs. The Pro-Core 1298 Aerator has RotaLink tine guide mechanism to ensure that tines remain vertical as they enter and exit the turf to produce clean holes for better turf health and quick re-growth. This machine cannot be compared to pullbehind/ground driven aerators and/or aerators with "spoons". Core Aeration provides the longest-term benefits in improving soil aeration, water infiltration, and percolation rates for a healthy root system. The cores left behind can either be swept and removed from the field or returned to the field by core processing, mat-dragging, or vertical mowing.	
3	Deep-Tine Aeration (Solid Tine): Performed with an HD75 Soil Reliever using 14" long x 3/4" diameter solid steel tine to relieve compaction deep below the surface to promote proper drainage and to shatter the hard pan.	1,000 Square Feet	The tines of the HD 75 Soil Reliever make no less than 10 and up to 24 holes per square foot. The Soil Reliever can aerate much deeper than most machines on the market; up to 16". The leverage of the unit allows the weight to be directly placed over the point of impact which allows for a lighter unit on the turf with clean entry and quicker turf recovery but still with deeper holes. This method results in minimal surface disturbance and leaves the Athletic Field in safe and playable condition. Deep aeration is desirable for aerating deeply compacted middle sections of Football Fields and areas around the goals of Soccer and Lacrosse Fields. The machine can be adjusted to multiple soil fracturing levels to accommodate different field conditions at each work site.	

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4	Deep-Tine Aeration (Hollow Tine): Performed with an HD75 Soil Reliever using 12" long x 7/8" diameter hollow steel tine to relieve compaction deep below the surface to promote proper drainage and to shatter the hard pan as with solid deep tine aeration with the added benefits of pulling long plugs.	1,000 Square Feet	The tines of the HD 75 Soil Reliever drill deep channels through the soil that may be top dressed with Sand to create more permanent drainage channels through the soil profile. The cores left behind are typically swept and then the field is top dressed.	
5	Aeravator Seed Box: Performed with First Products Aeravator Seed Box to prepare a "seed bed" and seed with the same machine.	1,000 Square Feet	The combination of aerating and seeding makes this unit more effective to prepare a "seed bed" and then seed; more so than any broadcast or drop seeder which never touch the field surface.	
		+Seed Market Price	50 lb. Bag – Certified Perennial Rye Grass Seed.	
		+Seed Market Price	50 lb. Bag – Certified Tall Fescue Blend Seed.	
6	Core Processing: Performed with a TORO Core Processor or equivalent to break up plugs of all sizes and to redistribute the soil material on the surface with the benefits of top dressing and also working to preserve nutrients already in the native soil.	1,000 Square Feet	This machine returns the turf to a safe and playable condition faster and so reduces stress on the Field and on turf equipment that may otherwise be used to break up plugs (reel mowers). The process returns soil to the field to save on topdressing costs.	
7	Core Sweeping: Performed with a TORO Core Sweeper or equivalent to collect the plugs left behind by one of the core aeration processes usually used when the soil profile is high-clay and more sand should be added to fill the holes.	1,000 Square Feet	This particular machine has a floating head design to reduce turf scalping and digging. The process returns a core-aerated field to a safe and playable condition faster to avoid disruption of roll of the ball or poor footing. The hydraulic off-set sweeping head allows for complete core removal without running over cores.	
8	Verti-Cutting and Clean-up: Performed with a First Products Verti-Cutter machine to slice into turf and rip out thatch and other debris which must then be collected either manually or with a Parker Sweeper attachment.	1,000 Square Feet	This machine has the only 12" carbide blade on the market, which is faster and sharper for a cleaner cut and minimized turf disturbance. It has skids for reduced turf digging and pivot points that allow the unit to turn and float on uneven terrain. For the past two (2) Years, Game Day has been using the RAKE-OVAC, a machine specifically designed to pick up debris using a reel with six (6) rows of flexible nylon teeth supported by eleven (11) spring loaded sets. The teeth work like fingers to gently lift debris, wet or dry into the large 5.75 cubic yard hopper.	

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9	Fraser Mowing: using the KORO Topmaker to remove rye grass, poa annua, weed seed, and thatch; to smooth out the field surface; and to expose Bermuda stolons and rhizomes to the sunlight for quicker green up and re-growth during the growing season	1,000 Square Feet	This process improves the plant health and surface grade of Bermuda Grass fields without chemicals and is used to revitalize mature Bermuda Grass fields within a 60-day summertime repair period.	
10	Debris Collection: removal of debris that results from Fraser Mowing.	1,000 Square Feet	Debris will be collected simultaneously using a tractor-drawn dump trailer and dumped on-site unless off-site disposal is arranged.	
11	Off-Site Debris Disposal	Debris Container	Debris including turf, soil, or other organic substance will be disposed of in debris containers and hauled off-site by a 3 rd party disposal company.	
12	Top-Dressing - Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using Screened Soil.	Ton	Screened Soil from Luck Ecosystems: ideal for field construction, resurfacing, and new establishment. Product is evenly distributed over the field.	
	Screened Soil – Material Only	Ton	Screened Soil Material Only	
13	Top-Dressing – Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using Premium Topsoil.	Ton	Premium Topsoil from Luck Ecosystems: registered with the VA Dept. of Agriculture and Consumer Services (VDACS) as a horticulture growing medium; nutrient rich; high in organic fiber; ideal for athletic field construction seeding and sodding. Product is evenly distributed over the field.	
	Premium Topsoil – Material Only	Ton	Premium Topsoil – Material Only	
14	Top-Dressing - Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using PRN Rootzone Sand.	Ton	PRN Rootzone Sand from Luck Ecosystems: a fine turf topdressing; a root zone amendment with nutrient enhancement. Product is evenly distributed over the field.	
	PRN Rootzone Sand – Material Only	Ton	PRN Rootzone Sand – Material Only	

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15	Top-Dressing – Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using Sand Organic Blend.	Ton	Sand Organic Blend from Luck Ecosystems: 80/20 mix of 80% USGA spec rootzone/topdressing sand and 20%of McGill sports field grade compost.	
	Sand Organic Blend – Material Only	Ton	Sand Organic Blend – Material Only	
16	Top-Dressing – Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using Alpha Utility Sand.	Tone	Alpha Utility Sand from Luck Ecosystems: fine turf topdressing sand. Product is evenly distributed over the field.	
	Alpha Utility Sand – Material Only	Ton	Alpha Utility Sand – Material Only	
17	Top-Dressing - Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using FieldGem – Choice Infield Mix.	Ton	FieldGem - Choice Infield Mix from Luck Ecosystems: a blend of native soil materials including sand, soil, and clay. For infield skinned areas.	
	FieldGem Choice – Material Only	Ton	FieldGem Choice – Material Only	
18	Top-Dressing – Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using FieldGem – ChoicePlus Infield Mix	Ton	FieldGem – ChoicePlus Infield Mix from Luck Ecosystems: native soil blend with calcined clay conditioner amendment = 10% by volume. Higher water holding capacity than Choice (above). Product is evenly distributed over the infield skinned areas.	
	FieldGem ChoicePlus – Material Only	Ton	FieldGem ChoicePlus – Material Only	
19	Top-Dressing – Material and Labor: Performed with a Dakota 412 Topdresser or equivalent using Field Gem – Pro Infield Mix	Ton	FieldGem – Pro Infield Mix from Luck Ecosystems: high clay content material; low silt; requires moisture control for the experienced grounds manager. Product is evenly distributed over the infield skinned areas.	
	FieldGem – Pro – Material Only	Ton	FieldGem – Pro – Material Only	
20	Top-Dressing – Material and Labor: Red Mound Forming Clay.	Ton	Red Mound Forming Clay from Luck Ecosystems: all natural clay for heavily used areas of ballfields including Pitcher’s Mound.	
	Red Mound Forming Clay – Material Only.	Ton	Red Mound Forming Clay – Material Only	
21	Top-Dressing – Material and Labor: Warning Track Material.	Ton	Warning Track Material from Luck Ecosystems: rock particles for effective footing; easily compacted. Product is evenly distributed over the warning track.	
	Warning Track Material – Material Only	Ton	Warning Track Material – Material Only	

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22	Top-Dressing – Material and Labor: Pathway Gravel.	Ton	Pathway Gravel from Luck Ecosystems: rock particles sized for walking and driving paths; easily compacted. Product is evenly distributed over the pathways.	
	Pathway Gravel – Material Only	Ton	Pathway Gravel – Material Only	
23	Top-Dressing – Material and Labor: Blue Stone/VDOT #10 (145).	Ton	Blue Stone/VDOT #10 (145): finely graded stone dust for use in pathways, walkways, warning tracks, tennis courts, and bicycle trails.	
	Blue Stone/VDOT #10 (145) – Material Only	Ton	Blue Stone/VDOT #10 (145) – Material Only	
24	Top-Dressing – Material and Labor: Crusher Run/VDOT #25	Ton	Crusher Run/VDOT #25: rock particles graded up to 1"; ideal for parking lots and driveways when compacted in place.	
	Crusher Run/VDOT #25 - Material Only	Ton	Crusher Run/VDOT #25 – Material Only	
25	Sprigging: Performed with a custom double crimping row planter machine, using either certified Patriot or Latitude 36 Bermuda Grass sprigs, planted at the rate of 1,000 bushels per acre (45,000 sq. ft. min).	Square Foot	Also termed a "Sports Field NO-TILL Row Planter." The machine is one of 2 machines ever built by Sprigger's Choice, Dalton, GA. "No-Till" equates to low-impact, minimal surface disruption. The Sprigger's Choice Double Crimping Row Planter Machine has 2 ½" centers which plant the sprigs in tight rows and then two (2) rows of crimpers that crimp the sprigs into the soil for complete sprig to soil contact. Unlike Broadcast sprigging that spreads sprigs on the surface, this machine plants the sprigs into the ground for the best possible results.	
26	Repair Sprigging: Performed with a custom double crimping row planter machine, using either certified Patriot Bermuda or Latitude 36 Bermuda Grass sprigs are planted at the rate of 1,000 bushels per acre (20,000 sq. ft. min).	Square Foot	The Sprigger's Choice Double Crimping Row Planter Machine can be adjusted to plant sprigs at varying rates and depths for sprig repair work that is customized to all field conditions.	

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27	Dormant Sprigging: Performed with a custom double crimping row planter machine using either certified Patriot Bermuda or Latitude 36 Bermuda Grass DORMANT sprigs are planted at 1200 bushels per acre (20,000 sq. ft. min.)	Square Foot	The Sprigger's Choice Double Crimping Row Planter Machine can be adjusted to plant sprigs at varying rates and depths for sprig repair work that is customized to all field conditions. This process is ideal for sprigging in late Fall and Winter especially on non-irrigated fields.	
28	Sod Repair: Performed with a walkbehind sod cutter, damaged or worn turf will be cut out, matching soil will be added to the area to provide a level surface for installation of new sod, and new sod will be cut to fit and installed.	Square Foot	For bigger sod projects, the WMI Big Roll Sod Install and Cutting Machine is used by experienced operators. For all projects, the areas to be sodded are carefully prepared, the edges are beveled to match the height of existing turf, and the sod is cut and then trimmed with Special knives to fit without gaps or overlap. Sod seams are staggered and hand-tucked. All sod is mature, certified Blue Label Sod cut in BIG ROLLS (42" W x 100' L) from a local licensed grower. When BIG ROLLS are used there is more coverage with fewer seams, which makes for quicker establishment and a safer playing surface. Netted Sod is NEVER USED.	
		Estimated Freight	Per Truck with capacity of up to 9,000 SF	
29	Sod Repair using Thick-Cut Sod Grown on Plastic.	Square Foot	For sod projects with a very short window for sod establishment, Thick-Cut Sod Grown on Plastic is used so that regular athletic play can resume immediately after installation. All sod is mature, certified Blue Label Sod cut in BIG ROLLS (42" - 48" W with varying lengths). Due to the very heavy weight of the sod, maximum capacity freight is 3500 SF Truck.	
		Estimated Freight	Per Truck with capacity of up to 3,500 SF	
30	Rolling: to smooth minor undulations to and compact sod.	Rectangle Field	A double drum roller or greens roller will be used.	
		Baseball Field	A double drum roller or greens roller will be used.	
31	Grading - performed with a Box Blade.	Square Foot	This grading process is used to change and improve the grade of a field using existing soil.	

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32	Hydraulic Blading: Performed with a Hydraulic "Buffalo" blade to improve the surface of the field by leveling and repair low areas using new material.	Ton	Typically this process does not require a substantial removal of turf or changes to the grade but is used to restore the existing grade by adding new material.
33	Laser Grading: Using a laser beam transmitter on a tripod and a mounted receiver on the grading equipment to adjust and guide the cutting edge for a precision grade to promote positive surface drainage.	Square Foot	This process is also known as "finish grading."
34	Chisel Plowing and Bleccavating: using two different attachments to plow and then turn over and level soil, this process is used to repair the grade several inches deep, to fill low areas, and prepare fields for a finish grade without stripping existing grass material.	1000 Sq Ft	This process involves plowing and tilling for more extensive grade work repair.
35	Silt Fence Installation.	Linear Foot	Silt Fence is used and often required on renovation projects with grade work to prevent erosion.
36	Slit-Seeding: Performed with a Landpride slit-seeder to plant seed for the purpose of seed to soil contact and reduction in seed waste.	1,000 Square Feet	With cutting blades mounted on 2" centers, this unit plants seed in tight rows for better, quicker grass coverage. Using only Certified Seed from licensed seed dealers, this process produces the most complete coverage especially compared to broadcast or drop seeding methods.
		+Seed Market Price	50 lb. Bag – Certified Perennial Rye Grass Seed.
			50 lb. Bag – Certified Tall Fescue Blend Seed.
37	Mowing (Reel): Performed with a Toro 5510 Reelmaster or equivalent, 95" width (45,000 sq. ft. min).	1,000 Square Feet	Unlike some other reel mowers, the Reelmaster is light weight for reduced turf compaction; has dual precision adjustment cutting units for industry best quality of cut; a large engine and all-wheel drive for mowing in any condition and grass variety; rear powered roller brushes to eliminate clippings; cutting unit designed to allow for specific adjustments for all turf varieties including reel adjustment speed, bedknife angle, reel attitude, angle of attack, and reel relief. This mower is ideal for mowing Bermuda Grass.
38	Mowing (Rotary): Performed with a Kubota Zero Turn or equivalent, 72" width (45,000 sq. ft. min).	1,000 Square Feet	Rotary Mowing is performed with commercial grade zero turn mowers.

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39	Regular Fertilizer Application with Nitrogen Only: Performed with a walk-behind or ride-on spreader (45,000 sq. ft. min). Includes products: 21-0-0	1,000 Square Feet	The walk-behind or ride-on application process is used to ensure accurate and complete coverage without excess overlap of fertilizer product. Only the best fertilizers are used under a carefully timed program according to applicable law to avoid waste, too-rapid grass growth and/or foliar burn. 21-0-0 Fertilizer Application	
40	Regular Fertilizer with Stabilized Nitrogen: Performed with a walk-behind or ride-on spreader (45,000 sq. ft. min). Includes products: 46-0-0 Uflexx	1,000 Square Feet	46-0-0 Uflexx Fertilizer Application	
41	Regular Fertilizer with Nitrogen and Potassium: Performed with a walk-behind or ride-on spreader (45,000 sq. ft. min). Includes products: 18-0-3, 20-0-10 with 25% XCU, and 20-0-10 with 50% XCU	1,000 Square Feet	18-0-3 or 20-0-10 with 25% XCU, and 20-0-10 with 50% XCU Fertilizer Application	
42	High-End Fertilizer with Nitrogen and Potassium: Performed with a walk-behind or ride-on spreader (45,000 sq. ft. min). Includes products: 19-0-19 with 62% MESA 3% Fe, 19-0-19 with 62% MESA, or 21-0-4	1,000 Square Feet	19-0-19 with 62% MESA 3% Fe, 19-0-19 with 62% MESA or 21-0-4 Fertilizer Application	
43	Regular Fertilizer with Nitrogen, Phosphorus, and Potassium: Performed with a walk-behind or ride-on spreader (45,000 sq. ft. min). Includes products: 16-8-8	1,000 Square Feet	16-8-8 Fertilizer Application	
44	Starter Fertilizer Application with Nitrogen, Phosphorus, and Potassium: Performed with a walk-behind or ride-on spreader (45,000 sq. ft. min). Includes products: 14-24-4, 14-14-14 with 50% XCU, 18-24-12 with 20% XRT, 18-24-12 with 50% SCU, or 18-24-12 with 50% XCU	1,000 Square Feet	14-24-4, 18-24-12 with 20% XRT, 18-24-12 with 50% SCU, or 18-24-12 with 50% XCU Fertilizer Application	
45	Lime Application: Performed with a walk-behind or ride-on spreader (45,000 sq. ft. min.). Includes various formulas of calcium hydroxide.	1,000 Square Feet	Lime is used to address and control pH levels in soil.	
46	Calcium Lime used to raise the pH in soil to a slightly acidic range. Includes products: Cal Turf Pro, Solu-Cal, Lime Hi-Cal	1,000 Square Feet	Cal Turf Pro, Solu-Cal, or Lime Hi-Cal Lime Application	

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47	Phosphorus-Free Starter Fertilizer, stimulates soil microbes, enhances soil CEC and soil moisture retention, maximizes use of stored and applied nutrients, remediates excess salts. Includes products: Solu-Cal Humic Plus with 6% humic acid and 36% Ca	1,000 Square Feet	Solu-Cal Humic Plus with 6% humic acid and 36% Ca Starter Fertilizer Application
48	Gypsum used to lower the pH in soil to a desired range. Includes products: Pelletized Gypsum	1,000 Square Feet	Pelletized Gypsum Application
49	Soil Testing: Soil Samples will be taken from the Athletic Field and will be sent to a laboratory approved by the designated State or Federal agency.	Sample	Soil Tests for Soil Texture, Soil pH, Buffer pH, Phosphorus, Potassium, Calcium, Magnesium, Organic Matter, Cation Exchange Capacity, and any number of specific tests will be performed and recommendations for nutrients and other remediation applications will be provided based upon soil test results.

HERBICIDE APPLICATIONS

Warm Season Grass Areas			
50	Pre-emergent Ronstar herbicide	1,000 Square Feet	Ronstar Pre-emergent is used to control annual broadleaf and annual grass weeds through their shoots (not roots). Unique use for Warm-Season grass turf.
		Acre	
51	Pre-emergent Herbicide with Potassium Fertilizer. Includes products: 0-0-7 with 1.5% Oxidiazon (Ronstar)	1,000 Square Feet	0-0-7 with 1.5% Oxidiazon (Ronstar)
52	Pre-emergent Herbicide with Nitrogen and Potassium Fertilizer. Includes products: 15-0-5 all mineral with 1.5% Oxidiazon (Ronstar), 5-0-20 with 1.5% Oxidiazon (Ronstar)	1,000 Square Feet	15-0-5 all mineral with 1.5% Oxidiazon (Ronstar) or 5-0-20 with 1.5% Oxidiazon (Ronstar)
53	Pre-emergent and early post-emergent Sureguard SC herbicide	1,000 Square Feet	Sureguard SC is used to control selective grasses and broadleaf weeds. Excellent in maintaining bare ground and dormant warm-season turfgrass.
54	Post emergent Revolver herbicide	1,000 Square Feet	Revolver Post-Emergent is used to control grassy weeds such as POA annua, goose grass, clumpy ryegrass, and tall fescue
		Acre	

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55	Post emergent Drive XLR8 herbicide	1,000 Square Feet	Drive XLR Post-Emergent herbicide is used to control crabgrass, clover, dandelion, and foxtail among other weeds.	
		Acre		
56	Post-Emergent Solitaire herbicide	1,000 Square Feet	Solitaire Post-Emergent herbicide is used to control crabgrass, sedges, and broadleaf weeds.	
		Acre		
57	Post emergent Speed Zone herbicide	1,000 Square Feet	Speedzone is used to control Broadleaf weeds.	
		Acre		
58	Post-emergent Sencor 75 Turf herbicide	1,000 Square Feet	Sencor is used for the control of annual bluegrass, goosegrass, and certain other broad leaf weeds.	
59	Post-emergent Sedgehammer herbicide	1,000 Square Feet	Sedgehammer is used for the control of yellow and purple sedges.	
60	Post-emergent Triplet Low Odor herbicide	1,000 Square Feet	Triplet Low Odor is used for the control of dandelion, clover, wild onion, and many other broadleaf weeds.	
61	Post-emergent Herbicide Mix including: Revolver, Drive, Sencor, and Dismiss	1,000 Square Feet	The combination of the herbicides Revolver, Drive, Sencor and Dismiss with Microyl Crop Oil is designed to control groosegrass, crabgrass, foxtail, sedge type weeds, and broad leaf weeds.	
62	Fungicide – curative and preventative for snow mold	1,000 Square Feet	Various Products to control and/or prevent snow mold on Bermuda Grass	
Cool Season Grass Areas				
63	Pre-emergent Dimension herbicide – Brand Name Only	1,000 Square Feet	Dimension is used to control annual broadleaf and grass weeds. Safe for use in Cool-Season grass turf.	
		Acre		
64	Pre-emergent Herbicide with Potassium Fertilizer: 0-0-7 with .38% Prodiamine (Barricade)	1,000 Square Feet	0-0-7 with .38% Prodiamine is used to control grassy and broad leaf weeds including poa annua.	
65	Pre-emergent Herbicide with Nitrogen and Potassium Fertilizers: 13-0-4, 50% LSN + .38% Prodiamine (Barricade)	1,000 Square Feet	13-0-4, 50% LSN + .38% Prodiamine (Barricade) is used to control grassy and broad leaf weeds including poa annua.	
66	Tenacity Pre-emergent/Post-emergent herbicide.	1,000 Square Feet	Tenacity is used both as a pre-emergent and post-emergent to control barnyard grass, carpetweed, chickweed, clover, crabgrass, dandelion, foxtail, goosegrass, nutsedge, and thistle among others.	
		Acre		

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67	Post emergent TZONE herbicide	1,000 Square Feet	TZONE herbicide is used as a post-emergent weed control for broadleaf weeds in coolseason.	
		Acre		
68	Dismiss Post-emergent herbicide	1,000 Square Feet	Dismiss herbicide is used to control yellow nutsedge, purple nutsedge, and green kyllinga.	
		Acre		
69	Post emergent Speed Zone herbicide	1,000 Square Feet	Speedzone is used to control Broadleaf weeds.	
		Acre		

General Purpose Grass and Vegetation Control				
70	Glyphosate (Roundup or equivalent) herbicide	1,000 Square Feet	Roundup is a broad spectrum post-emergent weed control used to kill weeds especially broadleaf weeds and grasses.	
		Acre		
Note: Open areas such as new or existing fields				
71	Stadium Stands and Adjacent Fence Lines – Under and around Bleachers	Stadium Site – up to 10,000 Square Feet	Herbicides used will typically include Roundup and other weed-specific herbicides as needed.	
PESTICIDE APPLICATIONS				
72	Grub Control – Curative. Products include: Dylox or equivalent	1,000 Square Feet	Dylox is a “rescue” or quick control product for grubs and other surface-feeding turfgrass insect pests.	
73	Grub Control – Preventative. Products include: Acelepryn	1,000 Square Feet	Acelepryn is a preventative control product for grubs and other surface-feeding turfgrass insects.	
74	General Insecticide. Products include: Permethrin	1,000 Square Feet	Permethrin is a general insecticide product for various insects including but not limited to: ants, chinch bugs, fleas, sod webworms, ticks, armyworms, and termites.	

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Baseball and Softball Field Services

75	Pitcher's Mound: Mound will be rebuilt according to high school baseball regulations using Turface Professional Mound Clay and Turface Moundmaster bricks to game ready condition.	Each	A transit level will be used to find the proper height of the pitching rubber for the Mound from Home Plate. The Mound will be 10" above Home Plate. The base of the Mound will be built with high-clay Turface Mound Clay. Turface Moundmaster Bricks will then be installed, tamped and watered on the Mound as recommended by the manufacturer. Turface Professional Mound Clay will be raked, tamped, and watered over the bricks. A thin layer of infield mix will be added to the Mound to finish the grade and the pitching rubber will be installed on the Mound.	
76	Home Plate: Batter's box and catcher's box at home plate will be rebuilt according to high school baseball regulations using Turface Professional Mound clay and Turface Moundmaster bricks to game ready condition.	Each	The Home Plate area will be excavated, the bricks will be installed at the Batter's box and catcher's box, tamped, watered, and mix will be raked and tamped over the bricks as recommended by the manufacturer. The grade will be finished and the Home Plate will be installed on the Mound.	

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77	Sod Cutting Infield - Lip Removal: Lips and edges of infield grass will be removed with sod cutter and disposed of on the premises (360 sq. ft. min).	Square Foot	Lips and edges of infield grass will be removed with sod cutter and disposed of either on the premises or off the premises depending upon the facility (360 sq. ft. min). The Crew will pull strings from Home Plate and use a transit level to measure and reset the bases as needed including raising the base anchors. Base plugs will be installed and the skin work will be performed including sod cutting the LIPS. Every season, dragging and weather conditions like wind and rain push lots of dirt into the grass at the arc of the infield and along the baselines. That dirt forms a LIP that keeps rain from draining away into the grass the way it's supposed to. This lip also becomes hazardous to players because it causes erratic bounces of the ball and because of the possibility of tripping. Left untreated, this type of grass mound will prevent water from running off the skinned area. The solution of some facilities and/or contractors may be to add more sand/clay soil to the infield skin, which can then turn the mounds into hills. This can make the problem worse by reversing the direction of the slope toward the infield resulting in standing water near the baselines. Once the LIPS are removed, the debris is taken off the field and the disturbed area is regraded, leveled, and the edges are beveled for new sod. New sod is installed on the edges to match the infield skin for a smooth transition. The infield skin is nail dragged, spike dragged and mat dragged to game ready condition.	
78	Infield Skin Renovations (Softball):	Infield	The lip along the back edge of the infield skin will be removed at a width of 16" using a sod cutter; the infield skin will be "opened up" using a Bannerman attachment used specifically for infield work; 1 Load of FieldGem Choice infield mix will be added and combined with existing material; infield mix will be distributed over the infield to fill in low areas and to make edges of the infield skin level with the remaining infield; and the infield skin will be dragged and groomed to "game ready" condition using the TORO 5040 Infield Pro machine or equivalent.	

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79	Infield Skin Renovations (Baseball):	Infield	The edges/lips along the back edge of the infield skin, along the base paths, and around home plate and the pitcher's mound will be removed using a sod cutter; the infield skin will be "opened up" using a Bannerman attachment used specifically for infield work; 1 Load of FieldGem Choice Infield Mix will be added and combined with existing material; infield mix will be distributed over the infield to fill in low areas and to make edges of the infield skin level with the remaining infield; and the infield skin will be dragged and groomed to "game ready" condition using the TORO 5040 Infield Pro machine or equivalent.	
80	Infield Dragging/Grooming/ Raking (Baseball): Techniques used to make infield skin "game ready".	Each	The techniques used include: spike dragging, nail dragging, mat dragging, hand-raking of the edges, and removing weeds from the infield skin.	
81	Infield Dragging/Grooming/ Raking (Softball): Techniques used to make infield skin "game ready".	Each	The techniques used include: spike dragging, nail dragging, mat dragging, hand-raking of the edges, and removing weeds from the infield skin.	
82	Installation of Bases (bases supplied by customer)	Set	Measurements will be taken to match regulations for base placement; bases anchors will be mounted in concrete and installed; bases will be installed on anchors	
83	Installation of Home Plate and Pitching Rubber (plate and rubber supplied by customer)	Set	Measurements will be taken to match regulations for Home Plate and Pitching Rubber placement and Plate and Rubber will be installed	
84	Calcined Clay conditioner	Pallet	Conditioner: delivered in 50 lb bags	
85	Calcined Clay drying agent	Pallet	Drying agent: delivered in 50 lb bags	
86	Warning Track Renovation	Square Foot	3" Deep, 3000 Square foot minimum	
87	Grow Cover/Winter Blanket Installation and Removal	Per Cover by Size	Grow Cover/Winter Blankets will be installed with staples and rope and removed prior to the start of the Spring Sports Season	
		60' x 90'		
		90' x 100'		

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88	Infield Rain Tarp Installation and Removal	Per Installation or Removal	A large rain tarp crew will install or remove or install and remove the infield rain tarps on Baseball and Softball Infields. Installation and Removal are priced as two separate services.
Turf Fields			

89	Sanitize Synthetic Turf Field	1,000 Square Feet	Using Anti-Microbial Solution specifically designed to clean synthetic turf fibers and surface infill.
90	Measure Impact: Measure impact of field to verify safety for concussions – 10 test points per test. Termed "GMAX" testing.	Field	Game Day is Certified in Sports Field Safety and accredited by the TURFindustry to utilize the 2.25KG Clegg Hammer and Triax-A Missile. Using the ASTM Designation: F1936 Standard Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field (the standard that establishes an in situ test method and maximum impact attenuation value for all types of turf playing systems and includes a protocol for determining test point locations on fields that are lined for multiple sports), an F-355 Triax A Missile tests and records GMAX. The test for Football Fields is found at ASTM, F1936, Figure 1.
91	Synthetic Turf Grooming.	Field	Synthetic Turf will be brushed, Swept, and Groomed using the SMG SportChamp and/or Redexim Charterhouse Verti-Top.
92	Synthetic Turf Deep Cleaning.	Field	Synthetic Turf will be swept with metal magnet, infill will be cleaned and sifted, fiber will be rejuvenated, and Turf will be brushed swept and groomed using the SMG SportChamp with attachments and Redexim Charterhouse Verti-Top
93	Snow Removal - Snow Plowing.	Hour	Snow will plowed from Turf or natural grass fields using a tractor outfitted with light-weight flotation tires designed to prevent compaction and a plow blade re-fabricated to "float" above the surface to prevent unnecessary scraping.
94	Snow Removal - Off-Field Snow Removal	Hour	Snow piles will be removed from around the edges of fields using a skid steer and dump trailer with light-weight flotation tires.
95	Natural Grass Field - Dyeing.	1,000 Square Feet	Field Dye will be sprayed evenly onto the Field to improve the appearance. Typically used for dormant grass field. Dye will be used 1 direction/coat.

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96	Field Lining on Natural Grass - Football Field.	Field	All Football Field lines including numbers, hash marks, and a center-field logo are all included in this price.	
97	Field Lining on Natural Grass - Football Field - Touch Up Lining.	Field	Football Field lines, number and hash marks will be touched up with paint.	
98	Field Lining on Natural Grass – Soccer Field.	Field	All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application.	
99	Field Lining on Natural Grass - Soccer Field - Touch Up Lining.	Field	Soccer Field lines, number and hash marks will be touched up with paint.	
100	Field Lining on Natural Grass - Men's Lacrosse Field.	Field	All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application.	
101	Field Lining on Natural Grass - Men's Lacrosse Field - Touch Up Lining.	Field	Lacrosse Field lines, number and has marks will be touch up with paint.	
102	Field Lining on Natural Grass - Women's Lacrosse Field.	Field	All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application.	
103	Field Lining on Natural Grass - Special Event/Youth Size for 36,000 - 59,400 Sq. Ft. Fields	Field	All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application.	
104	Field Lining on Natural Grass - Special Event/Youth Size for 21,600 - 28,350 Sq. Ft. Fields	Field	All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application	
105	Field Lining on Natural Grass - Special Event/Youth Size for 9,000 - 18,000 Sq. Ft. Fields	Field	All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application	
106	Field Lining on Natural Grass - Special Event/Youth Size - Touch Ups for ALL Sized Fields, 9,000 - 59,400 Sq. Ft.	Field	All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application.	
107	Field Lining on Turf – Football Field.	Field	Using only the best durable but removable paint from Pioneer recommended and approved for Synthetic Turf. All Football Field lines including numbers, hash marks, and a center-field logo are all included in this price.	
108	Field Lining on Turf – Soccer Field.	Field	Using only the best durable but removable paint from Pioneer recommended and approved for Synthetic Turf. All paint colors including White and Black Paints are the same price – no additional fee will incur with colored paint application.	

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109	Field Lining on Turf – Men's Lacrosse Field.	Field	Using only the best durable but removable paint from Pioneer recommended and approved for Synthetic Turf.	
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110	Field Lining on Turf – Women's Lacrosse Field.	Field	Using only the best durable but removable paint from Pioneer recommended and approved for Synthetic Turf.	
111	Field Line Removal on Turf – Football Field.	Field	Using only the best Blitz paint remover from Pioneer and Blitz walk-behind remover machine.	
112	Field Line Removal on Turf – Soccer Field.	Field	Using only the best Blitz paint remover from Pioneer and Blitz walk-behind remover machine.	
113	Field Line Removal on Turf – Men's Lacrosse Field.	Field	Using only the best Blitz paint remover from Pioneer and Blitz walk-behind remover machine.	
114	Field Line Removal on Turf - Women's Lacrosse Field	Field	Using only the best Blitz paint remover from Pioneer and Blitz walk-behind remover machine.	
115	Field Line Removal on Turf - Portions of Lines - 500 ft. minimum	Linear Foot	Using only the best Blitz paint remover from Pioneer and Blitz walk-behind remover machine - 500 ft. minimum	
116	Paint for Natural Grass Surfaces	Aerosol Can	Paint for Natural Grass: Pioneer brands or equivalent	
		Aerosol Case	Paint for Natural Grass: Pioneer brands or equivalent	
		Bucket	Paint for Natural Grass: Pioneer brands or equivalent	
117	Paint for Synthetic Field Surfaces	Bucket	Paint for Synthetic Fields: Pioneer brands or equivalent	

EQUIPMENT MAINTENANCE

118	Reel Grinding for Reel Mowers: Sharpening includes reel grind, relief grind, and bed knife grind – parts plus labor.	Each Reel		
119	Filters & Oil Changes, etc. for Reel Mowers	Each Mower		
120	Irrigation systems replacement parts.	Unit	Using irrigation parts to fit current systems as prescribed by the manufacturer, certain parts will be replaced to complete irrigation repairs.	

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Individual Labor Categories

121	Project/Job Manager	Hour	Project Manager will supervise all employees and job production	
122	Assistant Project/Job Manager	Hour	Assistant Manager will supervise employees and job production and provide labor as needed	
123	Heavy Equipment Operator	Hour	Heavy Equipment Operator will be used with all power-driven equipment and attachments	
124	Grounds Maintenance Worker	Hour	Grounds Maintenance Worker will provide labor and light equipment operation	
125	Certified Commercial Pesticide Applicator	Hour/Visit	Certified Commercial Pesticide Applicator will apply chemicals according to laws existing in each jurisdiction.	
126	Irrigation Service Technician	Hour/Visit	Irrigation Service Technician will make certain adjustments and repair; labor rate includes equipment required to perform work and related labor costs. *Labor Rate does NOT include materials, equipment rental if needed, or subcontractor costs.	
127	Irrigation Service Assistant	Hour/Visit	Irrigation Service Assistant – helper or helpers who accompany Service Technician.	
128	Irrigation Services – Subcontractor	Hour/Visit	Irrigation repairs, parts, and service provided by Subcontractor(s) hired by Game Day Inc.	