



Dallas Park & Recreation
Athletic Field
Maintenance Briefing



Park and Recreation Board
June 2, 2022

Purpose

To provide an update to the Park and Recreation Board on the athletic field maintenance program

Overview

- Athletic Maintenance Team Goal
- Team Structure
- Maintenance Schedules/Operational Cost for Reserved athletic fields
- Maintenance Challenges and Inefficiencies
- Enhanced Maintenance Plan
- Next Steps

Athletic Maintenance Team Goals

- Produce and maintain quality, safe, and aesthetically pleasing sports fields for citizens with a primary focus on youth utilization
- Athletics Task Force Team Strategy: Improve maintenance of targeted athletic fields

Athletic Field Staff/Structure

The standard staffing for the maintenance function of the Athletics Team consists of three Maintenance Workers per maintenance district (6 districts)

- 2 game preparation staff members
- 1 dedicated for Athletic Field Mowing

Internal Specialty Maintenance

- Irrigation Services
- Pesticide Application

Sport	# of fields
Baseball/Softball	105/17
Soccer/Football	91/13
Cricket/Rugby	3/2

Baseball/ Softball Field Maintenance Schedule-Reserved

Maintenance Services	Frequencies
Mowing, Trimming, Edging & Blowing	7-day cycle
Field Marking and Dragging	Daily
Mound and Base Maintenance	Annually
Irrigation Inspection/ Repairs	Bi-Annually
Agronomic Program	Per Annual Calendar
Ant Treatment/ Spot Treat	Annually/ As Needed
Amenities Inspection/ Repairs	Monthly

**Baseball/Softball Field
Monthly Cost At Reserved Field**

Function	1.20 Acres	Hrs.	Salary Cost
Litter		10	\$234
Turfgrass Mow/Trim		12	\$280
Irrigation		8	\$187
Fertilization		8	\$187
Field Marking and Dragging		40	\$935
Integrated Pest Management		8	\$187
Baseline, Infield Arc Edging		6	\$140
Cultivating Practices		24	\$561
		116	\$2,711
	Average salary rate: \$23.37		TOTAL

Feature Maintenance:

Litter: Litter sweep prior to mowing and game-day preparations. Estimated 2.5 hours per week during peak use. Contract assisted but also required to be performed by mowing staff.

Mow/Trim: Mowing of turfgrass inside the fenced area. String Trim on inside of fence area. Mowed and trimmed 1 x per week x 3-hour completion x 4 weeks in a month.

Irrigation: Irrigation: Duties include the maintenance and upkeep of the irrigation system, including checking the system to ensure sprinklers are in compliance with the Water Conservation Ordinance. Hours are estimated based on needs, to be performed in-house.

Fertilization: Single application of fertilizer at rate of 1 lb of nitrogen.

Field Marking and Dragging: Dragging, chalking, and raking of infield clay for preparation of field use. Estimated 2 hours process x 5 days week x 4 times a month.

Integrated Pest Management: as needed post-emergent and ant bait.

Baseline, infield arc edging- As needed edging of baseline and infield arc edging. Estimated 3 hours per bi-weekly service x 2 services per month.

Cultivating practices- Aerification, verticutting, and/or Top dressing of turfgrass. 3 staff X 8 hours X 1 time per month. Recommended a minimum of one different cultivating practice per month.

Soccer/Football Field Maintenance Schedule - Reserved

Maintenance Services	Frequencies
Mowing	7-day cycle
Trimming	7-day cycle
Field Marking	7-day cycle
Irrigation Inspection & Repairs	Bi-Annually
Agronomic Program	Per Annual Calendar
Ant Treatment/ Spot Treat	Annually/ As Needed
Amenities Inspection/ Repairs	Monthly

**Soccer/Football Field
Monthly Cost At Reserved Field**

Function	1.20 Acres	Hrs.	Salary Cost
Litter		10	\$234
Turfgrass Mow/Trim		20	\$467
Irrigation		8	\$187
Fertilization		8	\$187
Field Marking		8	\$187
Integrated Pest Management		8	\$187
Cultivating Practices		24	\$561
		86	\$2,010
	Average salary rate: \$23.37		

Feature Maintenance:

Litter: Litter sweep prior to mowing and game-day preparations. Estimated 2.5 hours per week during peak use. Contract assisted but also required to be performed by mowing staff.

Mow/Trim: Mowing of turfgrass inside the fenced area. String Trim on inside of fence area. Mowed and trimmed 5 hours x 1 per week x 4 weeks in a month.

Irrigation: Irrigation: Duties include the maintenance and upkeep of the irrigation system, including checking the system to ensure sprinklers are in compliance with the Water Conservation Ordinance. Hours are estimated based on needs, to be performed in-house.

Fertilization: Single application of fertilizer at rate of 1 lb of nitrogen.

Field Marking: Line painting in preparation for field use. Estimated 2 hours process x 1 day per week x 4 times in a month.

Integrated Pest Management: as needed post-emergent and ant bait.

Cultivating practices- Aerification, verticutting, and/or Top dressing of turfgrass. 3 staff X 8 hours X 1 time per month.

Cricket/Rugby Fields

Maintenance Schedule -Reserved

Maintenance Services	Frequencies
Mowing	7-day cycle
Trimming	7-day cycle
Field Marking	Performed by League As Needed
Irrigation Inspection & Repairs	Bi-Annually
Agronomic Program	Per Annual Calendar
Ant Treatment/ Spot Treat	Annually/ As Needed
Amenities Inspection/ Repairs	Monthly

**Cricket/Rugby Field
Monthly Cost At Reserved Field**

Function	1.20 Acres	Hrs.	Salary Cost
Litter		10	\$234
Turfgrass Mow/Trim		20	\$467
Irrigation		8	\$187
Fertilization		8	\$187
Integrated Pest Management		8	\$187
Cultivating Practices		24	\$561
		78	\$1,823
	Average salary rate: \$23.37		TOTAL

Feature Maintenance:

Litter: Litter sweep prior to mowing and game-day preparations. Estimated 2.5 hours per week during peak use. Contract assisted but also required to be performed by mowing staff.

Mow/Trim: Mowing of turfgrass inside the fenced area. String Trim on inside of fence area. Mowed and trimmed 1 x per week x 5-hour completion x 4 weeks in a month.

Irrigation: Irrigation: Duties include the maintenance and upkeep of the irrigation system, including checking the system to ensure sprinklers are in compliance with the Water Conservation Ordinance. Hours are estimated based on needs, to be performed in-house.

Fertilization: Single application of fertilizer at rate of 1 lb of nitrogen.

Integrated Pest Management: as needed post-emergent and ant bait.

Cultivating practices- Aerification, verticutting, and/or Top dressing of turfgrass. 3 staff X 8 hours X 1 time per month.

Maintenance Challenges and Inefficiencies

- Lack of consistent cultivating practices
- Lack of specialized training for staff
- Organizational structure and resources— crews maintain a substantial inventory
- Overutilization of athletic fields

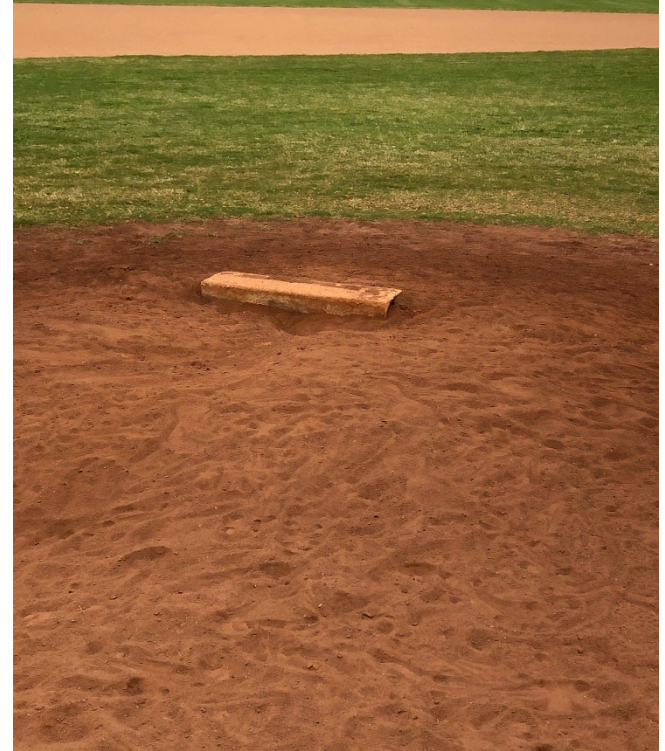
Cultivating Practices



Specialized Maintenance



Overutilization



Substantial Inventory

k Orders		Tasks	Inventory
Date Start	Service	Property	Asset
5/30/2022	06-Anderson Bonner Soccer Field 3-AF Marking, 5/30/20	District 6	06-SoccerFld-Anderson Bonner 3
5/30/2022	06-Anderson Bonner-Athletic Field Mowing-7 Day, 5/30/20	District 6	06-Anderson Bonner
5/30/2022	06-Campbell Green-Athletic Field Mowing-7 Day, 5/30/20	District 6	06-Campbell Green
5/30/2022	06-Campbell Green-Soccer Field 1 Marking, 5/30/2022	District 6	06-SoccerFld-Campbell Green 1
5/30/2022	06-Campbell Green-Soccer Field 2 Marking, 5/30/2022	District 6	06-SoccerFld-Campbell Green 2
5/30/2022	06-Campbell Green-Soccer Field 3 Marking, 5/30/2022	District 6	06-SoccerFld-Campbell Green 3
5/30/2022	06-Campbell Green-Soccer Field 4 Marking, 5/30/2022	District 6	06-SoccerFld-Campbell Green 4
5/30/2022	06-Churchill Softball Field 1 AF-Marking, 5/30/2022	District 6	06-Churchill
5/30/2022	06-Churchill Softball Field 2-AF-Marking, 5/30/2022	District 6	06-Churchill
5/30/2022	06-Churchill-Athletic Fields 1 and 2 Mowing-7 Day, 5/30/20	District 6	06-Churchill
5/30/2022	06-Fretz Softball Field 1 AF-Marking, 5/30/2022	District 6	06-Fretz
5/30/2022	06-Fretz Softball Field 2 AF-Marking, 5/30/2022	District 6	06-SoftballFld-Fretz 2
5/30/2022	06-Fretz Softball Field 3 AF-Marking, 5/30/2022	District 6	06-Fretz
5/30/2022	06-Fretz-Athletic Field Mowing-7 Day, 5/30/2022	District 6	06-Fretz
5/30/2022	06-Fretz-Soccer Field Marking-Field 4, 5/30/2022	District 6	06-SoccerFld-Fretz 4
5/30/2022	06-Hamilton Athletic Field Mowing-7 Day, 5/30/2022	District 6	06-Hamilton
5/30/2022	06-Hamilton Softball Field-AF-Marking, 5/30/2022	District 6	06-Hamilton
5/30/2022	06-Harry Moss Soccer-Athletic Field Mowing-7 Day, 5/30/20	District 6	06-Harry S. Moss-Soccer Complex
5/30/2022	06-Harry S Moss Soccer Field 1-AF Marking, 5/30/2022	District 6	06-SoccerFld-Harry S Moss 1
5/30/2022	06-Harry S Moss Soccer Field 4-AF Marking, 5/30/2022	District 6	06-SoccerFld-Harry S Moss 4
5/30/2022	06-Harry S Moss Soccer Field 5-AF Marking, 5/30/2022	District 6	06-SoccerFld-Harry S Moss 5
5/30/2022	06-Harry S Moss Soccer Field 6-AF Marking, 5/30/2022	District 6	06-SoccerFld-Harry S Moss 6
5/30/2022	06-Jamestown- Athletic Field Mowing-7 Day, 5/30/2022	District 6	06-Jamestown
5/30/2022	06-Jamestown-Athletic Field Marking, 5/30/2022	District 6	06-Jamestown
5/30/2022	06-McCree Softball Field AF-Marking, 5/30/2022	District 6	06-McCree Park
5/30/2022	06-McCree-Athletic Field Mowing-7 Day, 5/30/2022	District 6	06-SoftballFld-McCree
5/30/2022	06-Northaven AF-1-2-Mowing-7 Day, 5/30/2022	District 6	06-Northaven Park
5/30/2022	06-Northaven Softball Field 1-AF Marking, 5/30/2022	District 6	06-Northaven Park
5/30/2022	06-Northaven Softball Field 2-AF Marking, 5/30/2022	District 6	06-Northaven Park
5/30/2022	06-Northwood Athletic Field Mowing-7 Day, 5/30/2022	District 6	06-Northwood
5/30/2022	06-Northwood-Athletic-Soccer Field-AF Marking, 5/30/20	District 6	06-SoccerFld-Northwood
5/30/2022	06-Preston Hollow Athletic Field Mowing-7 Day, 5/30/20	District 6	06-Preston Hollow
5/30/2022	06-Preston Hollow Softball Field 1-AF Marking, 5/30/20	District 6	06-Preston Hollow
5/30/2022	06-Preston Hollow Softball Field 2-AF Marking, 5/30/20	District 6	06-Preston Hollow
5/30/2022	06-Rose Hagar-Field 1 Marking, 5/30/2022	District 6	06-Rose Hagar
5/30/2022	06-Rose Haggar-Athletic Field Mowing-7 Day, 5/30/2022	District 6	06-Rose Haggar
5/30/2022	06-Samuell Garland-Athletic Field Mowing-7 Day, 5/30/20	District 6	06-Samuell Garland
5/30/2022	06-Samuell Garland Soccer Field 10-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 10
5/30/2022	06-Samuell Garland Soccer Field 11-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 11
5/30/2022	06-Samuell Garland Soccer Field 12-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 12
5/30/2022	06-Samuell Garland Soccer Field 13-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 13
5/30/2022	06-Samuell Garland Soccer Field 14-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 14
5/30/2022	06-Samuell Garland Soccer Field 15-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 15
5/30/2022	06-Samuell Garland Soccer Field 1-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 1
5/30/2022	06-Samuell Garland Soccer Field 2-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 2
5/30/2022	06-Samuell Garland Soccer Field 3-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 3
5/30/2022	06-Samuell Garland Soccer Field 4-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 4
5/30/2022	06-Samuell Garland Soccer Field 5-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 5
5/30/2022	06-Samuell Garland Soccer Field 6-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 6
5/30/2022	06-Samuell Garland Soccer Field 7-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 7
5/30/2022	06-Samuell Garland Soccer Field 8-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 8
5/30/2022	06-Samuell Garland Soccer Field 9-AF Marking, 5/30/20	District 6	06-SoccerFld-Samuell Garland 9

Athletic Field

Enhanced Maintenance Structure

Enhanced Maintenance Services	Frequencies
Mowing & Trimming	Three Times A Week
Field Marking	Weekly
Irrigation Inspection & Repairs	Quarterly
Agronomics Program (Pre-5/ Post-5/ Fert-6/ Fungicides/ Insecticides [Ant/ Grub])	Per Annual Calendar
Cultivation Practices (Soil Assessment, Verticutting & Vacuuming)	Annually
Cultivation Practices (Coring, Slicing and Deep Tine Aeration)	Bi-Monthly
Cultivation Practices (Field Rolling & Top Dressing)	Quarterly

**Athletic Field Enhancement
Supplemental Monthly Cost**

<u>Function</u>	<u>1.20 Acres</u>	<u>Contracted Price</u>
Turfgrass Mow/Trim		\$21,600
Cultivating Practices		\$5,500
		\$27,100

Feature Maintenance:

Mow/Trim: Mowing of turfgrass inside the fenced area. String Trim on inside of fence area. Mowed and trimmed 3 x per week. Increased frequent mowing will promote turf density, which in turn will allow turfgrass to absorb greater foot traffic.

Cultivating practices- Aerification, verticutting, laser leveling and/or Top dressing of turfgrass. Cost represents average cost per service as quoted by outside vendor. Recommended a minimum of one different cultivating practice per month.

Next Steps

- Design maintenance program with supplemental resources from contractors
- Finalize targeted locations under the guidelines of the Athletic Field Use Policy/Youth
- Support Athletics Enhancement Bid
- Leverage training for maintenance staff
- Athletics Task Force/Assessment Reports/Staff Certifications



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