

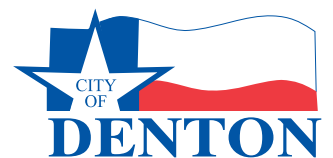
# UNITE, GROW



## **CITY OF DENTON**

### **PARKS, RECREATION, AND TRAILS SYSTEM MASTER PLAN: DESIGN STANDARDS**

JANUARY 2022



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# Section 1: DEVELOPED OPEN SPACE

This section outlines the required and recommended specifications for developed open spaces within the City of Denton. The definitions of the different types of developed open space found in Denton are listed below.

## 1.1 CITY PARKS

A City Park is a larger park that draws residents from across the City and is often used to host citywide events. City Parks generally contain active and passive amenities, recreation center(s), athletic complexes, pool, trails, landscaping, playground, open space, benches, pavilion, and/or sculpture.

## 1.2 COMMUNITY PARKS

A Community Park is a larger park that serves multiple surrounding neighborhoods. Community Parks are generally between 20-50 acres, however, typically falls between 30-50 acres, and contains active and/or passive amenities, such as, but not limited to, sports fields, courts, aquatics, trails, landscaping, playground, open space, benches, pavilion, and/or sculptures.

## 1.3 NEIGHBORHOOD PARKS

A Neighborhood Park is a small to medium sized park within walking distance of the immediate service population. Neighborhood parks are generally between 3-20 acres, however, typically falls between 3-5 acres, and contains passive amenities such as, but not limited to, landscaping, playground, open space, benches, pavilion, and/or a sculpture. Neighborhood parks generally do not contain restrooms.

## 1.4 POCKET PARKS

A Pocket Park is a small park accessible to the public that often fills in gaps in park coverage. Pocket parks are frequently created on small, irregular pieces of land, in vacant building lots, along the centers of broad avenues, or even in parking spots. Amenities are typically passive such as seating. Pocket parks generally do not contain restrooms.

## 1.5 PRESERVE

A Preserve is an area of land that is protected and managed to preserve a particular type of habitat and its flora and fauna which are often rare or endangered. Structures for environmental learning may be included in a context-sensitive manner.

## 1.6 LINEAR PARKS

A Linear Park, often called Greenways, are stretches of open space that can vary in size and length but are typically longer than they are wide. This tract of parkland may contain passive and/or active amenities such as, but not limited to, green space with trails of various tread types, trail heads, and connects assets such as parks, schools, neighborhoods, and business districts. Linear parks generally do not contain restrooms.

## 1.7 SPECIAL USE PARKS

A Special Use Park generally has a dedicated and unique use such as historical site, skate park, or bike park.

## 1.8 CEMETERY

A Cemetery consists of burial plots, roads, storage, signage, trails, and the possibility of educational opportunities to celebrate the history of the cemetery.

# 1.1 CITY PARKS

## OVERVIEW

### Acronym/Abbreviation: CP

The design, development, preservation and enhancement of all City Parks in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A City Park is a larger park that draws residents from across the City and is often used to host citywide events. City Parks generally contain active and passive amenities, recreation center(s), athletic complexes, pool, trails, landscaping, playground, open space, benches, pavilion, and/or sculpture.

## SIZE

30 to 500 acres (typically greater than 50 acres and could be larger than 550 acres)

## SERVICE AREA

0-10 miles

### Pedestrian/Cyclist:

1/2 mile is preferred for pedestrians & cyclist as it corresponds to a 10 minute walk/5 minute bike ride. This is a primary initiative for DPARD.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of City Parks must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restroom		1+	Community Center		1
Maintenance Storage Bldg		1+	Concessions		1+
			Gymnastic Center		1
			Indoor Ice Rink		1
			Recreational Center		1
			Senior Center		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Basketball Courts		1+	Amphitheater		1+
Multi-Purpose Court		1+	Swimming Pool		1+
Tennis Courts		2+	Spray-ground		1+
Multi-Purpose Field		1+	Community Garden		1+
Parking Lot		(100+ Stalls)	Disc Golf Course		1+
Pavilions		1	Challenge Sports		1+
Playground		1/1	Driving Range		1+
Play-scape		1	Volleyball Courts		1+
Picnic Area		1+	In-line Hockey Rink		1+
			Baseball Field (Adult)		1+
			Baseball Field (Youth)		4+
			Football Field		1+
			Rugby Field		1+
			Soccer Field (Adult)		1+
			Soccer Field (Youth)		2+
			Softball Field (Adult)		2+
			Softball Field (Youth)		4+
			Putting Greens		1+
			Shade Structures		1+
			Bike Park		1+
			Dog Park		1
			Skate Park		1
			Botanical Garden		1+
			Lakes/Ponds/Streams		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Use Trail		1+ (loop Trail)			



Indoor Facilities & Spaces



Outdoor Facilities & Amenities



Circulation



Communication/  
Wayfinding

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min	Amenity	Reference	Rec.
Entrance Sign (Primary)		1	<b>Informational Signs</b>		
Entrance Sign (Secondary)		1	Digital Displays		1+
Directional Signs/Maps		1+	Marquee Signs		1+
<b>Informational Signs</b>			Outdoor Bulletin Signs		1+
Hours of Operation Sign		1+	Mobile Applications		1+
Ordinance Signs		1+	Interpretive Signs		1+
ADA Parking Spaces		TBD	Memorial Signs		1+
			Donor/Naming Signs		1+
			Recognition Signs		1+
			Reservations		1+
			ADA Parking Spaces		1+
			Beware of Snakes		PRN
			Children Playing		PRN
			Crime Watch		PRN
			Do not Harvest		PRN
			Hide/Lock/Take		PRN
			Keep Out		PRN
			Lighting Warning		PRN
			No Alcohol		PRN
			No Dogs on Field		PRN
			No Golf Carts		PRN
			No Horseback Riding		PRN
			No Parking		PRN
			No Practice on Lined Fields		PRN
			No Skating		PRN
			No Smoking		PRN
			No Soft Toss on Fence		PRN
			No Swimming		PRN
			No Warm Up Area		PRN
			Notice of Surveillance		PRN
			Vehicles Prohibited		PRN
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art	7.7.1	1+	Memorials	7.8.3	1
Flag Pole	7.8.1	1			
Historical Marker	7.8.2	1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		10+			
Bike Racks		2			
Bike Stations		1			
Drinking Fountains		1			
Grills		2			
Picnic Tables		2			



Culture &  
Identity



Site  
Furnishings

\* PRN stands for from the Latin "pro re nata" or as needed



Pollution Control



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics



Environmental Conditions

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		1 per acre (2 min)			
Revetments		1+			
Dog Waste Station		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+	Outdoor Exercise Equipment		1+
Scoreboards		1+	Football Goals		1+
Basketball Goals		1+	Hockey Goals		1+
			Rugby Goals		2+
			Soccer Goals		2+
			Backstops		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
Crosswalk		TBD	High Mast Lights		1+
Ball field Lights		1+	Mid Mast Lights		1+
			Low Mast Lights		1+
			Trail Lights		1+
			Tree Grates		1+
			Fencing		PRN
			Privacy Wall		PRN
			Retaining Wall		PRN
			Security Cameras		PRN
			Accent Lighting		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
WiFi		1			
Electrical Service		1000 Amp			
Water Service		1000 gpm			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Irrigation		1			
Mowstrips		TBD			
See Chapter xx for design standards regarding aesthetic standards for city parks.					
See Chapter xx for design standards regarding environmental conditions for city parks.					



## Scale

25-375 acres however, typically greater than 50 acres (larger city parks are most desirable for efficient maintenance and operation)

Note: The scale of the parcel will determine classification and therefore dictate the facilities and amenities required/recommended as listed in this appendix.

## Location

Should be located near or along a major road for ease of access.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Vehicular

**Secondary Method:** Pedestrian, Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to:

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- b) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



**NORTH LAKES PARK**

# 1.2 COMMUNITY PARKS

## OVERVIEW

### Acronym/Abbreviation: CmP

The design, development, preservation and enhancement of all Community Parks in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A Community Park is a larger park that serves multiple surrounding neighborhoods. Community Parks are generally between 20-50 acres, however, typically falls between 30-50 acres, and contains active and/or passive amenities, such as, but not limited to, sports fields, courts, aquatics, trails, landscaping, playground, open space, benches, pavilion, and/or sculptures.

## SIZE

20 to 50 acres (typically falls between 30-50 acres)

## SERVICE AREA

0-5 miles

### Pedestrian/Cyclist:

1/2 mile is preferred for pedestrians & cyclist as it corresponds to a 10 minute walk/5 minute bike ride. This is a primary initiative for DPARD.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of Community Parks must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restroom Maintenance Storage Bldg		1+ 1+	Community Center Concessions Gymnastic Center Indoor Ice Rink Recreational Center Senior Center		1 1+ 1 1 1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Basketball Courts Multi-Purpose Court Multi-Purpose Field Parking Lot Pavilions Playground Play-scape Picnic Area		1+ 1+ 1+ (40+ Stalls) 1 1/1 1 1+	Amphitheater Swimming Pool Spray-ground Community Garden Disc Golf Course Challenge Sports Driving Range Tennis Courts Volleyball Courts In-line Hockey Rink Baseball Field (Adult) Baseball Field (Youth) Football Field Rugby Field Soccer Field (Adult) Soccer Field (Youth) Softball Field (Adult) Softball Field (Youth) Pavilions Putting Greens Shade Structures Bike Park Dog Park Skate Park Botanical Garden Lakes/Ponds/Streams		1+ 1+ 1+ 1+ 1+ 1+ 1+ 2+ 1+ 1+ 1+ 4+ 1+ 1+ 2+ 2+ 4+ 2 1+ 1+ 1+ 1 1 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Use Trail		1+			



Indoor  
Facilities &  
Spaces



Outdoor  
Facilities &  
Amenities



Circulation



Communication/  
Wayfinding

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS			
Amenity	Reference	Min.	Amenity	Reference	Rec.	
Entrance Sign (Primary)		1	<b>Informational Signs</b> Digital Displays Marquee Signs Outdoor Bulletin Signs Mobile Applications Interpretive Signs Memorial Signs Donor/Naming Signs Recognition Signs Reservations ADA Parking Space Beware of Snakes Children Playing Crime Watch Do not Harvest Hide/Lock/Take Keep Out Lighting Warning No Alcohol No Dogs on Field No Golf Carts No Horseback Riding No Parking No Practice on Lined Fields No Skating No Smoking No Soft Toss on Fence No Swimming No Warm Up Area Notice of Surveillance Vehicles Prohibited			
Entrance Sign (Secondary)		1			1+	
Directional Signs/Maps		1+				1+
<b>Informational Signs</b>						1+
Hours of Operation Sign		1+				1+
Ordinance Signs		1+				1+
ADA Parking Spaces		TBD				1+
						1+
						PRN
						PRN
						PRN
						PRN
						PRN
						PRN
						PRN
						PRN
						PRN
						PRN
						PRN
Amenity	Reference	Min.		Amenity	Reference	Rec.
Public Art		1+	Memorials		1	
Flag Pole		1				
Historical Marker		1+				
Amenity	Reference	Min.	Amenity	Reference	Rec.	
Benches		10+				
Bike Racks		2				
Bike Stations		1				
Drinking Fountains		1				
Grills		2				
Picnic Tables		1 per 1/2 Acre (2 min)				
Amenity	Reference	Min.	Amenity	Reference	Rec.	
Receptacles		1 per acre (2 min)				
Revetments		1+				
Dog Waste Station		1+				



Culture &  
Identity



Site  
Furnishings



Pollution  
Control



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics



Environmental Conditions

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+	Outdoor Exercise Equipment		1+
Scoreboards		1+	Football Goals		2+
Basketball Goals		1+	Hockey Goals		1+
			Rugby Goals		2+
			Soccer Goals		2+
			Backstops		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
Ball field Lights		TBD	High Mast Lights		1+
Crosswalk		1+	Mid Mast Lights		1+
			Low Mast Lights		1+
			Trail Lights		1+
			Tree Grates		1+
			Fencing		PRN
			Privacy Wall		PRN
			Retaining Wall		PRN
			Security Cameras		PRN
			Accent Lighting		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
WIFI		1			
Electrical Service		800 Amp			
Water Service		200 gpm			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Irrigation		1			
Mowstrips		TBD			
See Chapter xx for design standards regarding aesthetic standards for community parks.					
See Chapter xx for design standards regarding environmental conditions for community parks.					

## Scale

20-100 acres however, typically fall between 30-50 acres  
(Larger community parks are most desirable for efficient maintenance and operation)

Note: The scale of the parcel will determine classification and therefore dictate the facilities and amenities required/recommended as listed in this appendix.

## Location

Should be located near or along a road that can support additional traffic for easy access.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Vehicular

**Secondary Method:** Pedestrian, Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- b) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



# 1.3 NEIGHBORHOOD PARKS

## OVERVIEW

### Acronym/Abbreviation: NP

The design, development, preservation and enhancement of all Neighborhood Parks in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A Neighborhood Park is a small to medium sized park within walking distance of the immediate service population. Neighborhood parks are generally between 3-20 acres, however, typically falls between 3-5 acres, and contains passive amenities such as, but not limited to, landscaping, playground, open space, benches, pavilion, and/or a sculpture. Neighborhood parks generally do not contain restrooms.

## SIZE

3 to 20 acres (typically falls between 3-5 acres)

## SERVICE AREA

0-1 mile

### Pedestrian/Cyclist:

1/2 mile is preferred for pedestrians & cyclist as it corresponds to a 10 minute walk/5 minute bike ride. This is a primary initiative for DPARD.



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of neighborhood Parks must receive prior written authorization from the DPARD.</p>			<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of neighborhood Parks must receive prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Reference	Rec.	
					1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Pavilion		1	Amphitheater		1+
Playground		1/1	Spray-ground		1+
Play-scape		1	Community Garden		1+
Picnic Area		1+	Challenge Sports		1+
			Basketball Courts		1+
			Multi-Purpose Court		1+
			Tennis Courts		2+
			Volleyball Courts		1+
			Multi-purpose Field		1+
			Parking Lot		1+
					(10 Stalls)
			Shade Structures (Soft)		1+
			Dog Park		1
Amenity	Reference	Min.	Amenities	Reference	Rec.
Multi-use Trail	4.1	1+			



Indoor  
Facilities &  
Spaces



Outdoor  
Facilities &  
Amenities



Circulation





Communication/  
Wayfinding

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min	Amenity	Reference	Rec.
Entrance Sign (Primary)		1	Entrance Sign (Secondary)		1+
Directional Signs/Maps		1+	<b>Informational Signs</b>		1+
<b>Informational Signs</b>			Outdoor Bulletin Signs		1+
Hours of Operation Sign		1+	Mobile Applications		1+
Ordinance Signs		1+	Interpretive Signs		1+
			Memorial Signs		1+
			Donor/Naming Signs		1+
			Recognition Signs		1+
			Reservations		1+
			ADA Parking Space		1+
			Beware of Snakes		1+
			Children Playing		PRN
			Crime Watch		PRN
			Do not Harvest		PRN
			Hide/Lock/Take		PRN
			Keep Out		PRN
			Lighting Warning		PRN
			No Alcohol		PRN
			No Dogs on Field		PRN
			No Golf Carts		PRN
			No Horseback Riding		PRN
			No Parking		PRN
			No Practice on Lined Fields		PRN
			No Skating		PRN
			No Smoking		PRN
			No Soft Toss on Fence		PRN
			No Swimming		PRN
			No Warm Up Area		PRN
			Notice of Surveillance		PRN
			Vehicles Prohibited		PRN
Amenity	Reference		Amenity	Reference	Rec.
Historical Marker		1+	Public Art		1+
Amenity	Reference		Amenity	Reference	Rec.
Benches		2	Benches		3+
Bike Racks		1	Bike Stations		1
Drinking Fountains		1			
Grills		1			
Picnic Tables		1			
		per			
		1/2			
Amenity	Reference		Amenity	Reference	Rec.
Receptacles	1 per acre (2 min)				
	1+				
Revetments	1+				
Dog Waste Station					



Culture &  
Identity



Site  
Furnishings



Pollution  
Control

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+	Outdoor Exercise Equipment		1+
			Basketball Goals		1+
			Backstops		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
Crosswalk		TBD	Mid Mast Lights		1+
			Low Mast Lights		1+
			Trail Lights		1+
			Tree Grates		1+
			Fencing		PRN
			Privacy Wall		PRN
			Retaining Wall		PRN
			Security Cameras		PRN
			Accent Lighting		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
WIFI		1			
Electrical Service		200 Amp			
Water Service		50 gpm			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Irrigation	1				
Mowstrips	TBD				
See Chapter xx for design standards regarding aesthetic standards for neighborhood parks.					
See Chapter xx for design standards regarding environmental conditions for neighborhood parks.					



Recreational  
Support



Safety &  
Security



Technology  
&  
Utilities



Landscape



Aesthetics



Environmental  
Conditions

## Scale

2-20 acres however, typically fall between 3-5 acres (Larger neighborhood parks are most desirable for efficient maintenance and operation)

Note: The scale of the parcel will determine classification and therefore dictate the facilities and amenities required/recommended as listed in this appendix.

## Location

Within residential developments.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Vehicular

**Secondary Method:** Pedestrian, Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- b) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



**CROSS TIMBERS- SOUTH**

# 1.4 POCKET PARKS

## OVERVIEW

### Acronym/Abbreviation: PP

The design, development, preservation and enhancement of all Pocket Parks in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A pocket park is a small park accessible to the public that often fills in gaps in park coverage. Pocket parks are frequently created on small, irregular pieces of land, in vacant buildings lots, along centers of broad avenues, or even in parking spots. Amenities are typically passive such as seating. Pocket Parks generally do not contain restrooms.

## SIZE

0-3 acres

## SERVICE AREA

0-0.05 Miles

### Pedestrian/Cyclist:

0.5 mile is preferred for pedestrians and cyclists as it corresponds to a 10 minute/5 minute bike ride.



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of Pocket Parks must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Community Garden		1+
			Pavilion		1
			Picnic Area		1+
			Playscape		1
			Shade Structures		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor  
Facilities &  
Amenities



Outdoor  
Facilities &  
Amenities



Circulation



Communication/  
Wayfinding

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Entrance Sign (Primary)		1	Entrance Sign (Secondary)		1+
<b>Informational Signs</b>			Directional Signs/Maps		1+
Hours of Operation Sign		1+	<b>Informational Signs</b>		
Ordinance Signs		1+	Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Interpretive Signs		1+
			Memorial Signs		1+
			Donor/Naming Signs		1+
			Recognition Signs		1+
			Reservations		1+
			ADA Parking Space		1+
			Beware of Snakes		1+
			Children Playing		PRN
			Crime Watch		PRN
			Do not Harvest		PRN
			Hide/Lock/Take		PRN
			Keep Out		PRN
			Lighting Warning		PRN
			No Alcohol		PRN
			No Dogs on Field		PRN
			No Golf Carts		PRN
			No Horseback Riding		PRN
			No Parking		PRN
			No Practice on Lined Fields		PRN



Communication/  
Wayfinding  
Contd.

Amenity	Reference	Min.	Amenity	Reference	Rec.
			<b>Informational Signs</b>		PRN
			No Skating		PRN
			No Smoking		PRN
			No Soft Toss on Fence		PRN
			No Swimming		PRN
			No Warm Up Area		PRN
			Notice of Surveillance		PRN
			Vehicles Prohibited		PRN



Culture &  
Identity

Amenity	Reference	Min.	Amenity	Reference	Rec.
Historical Marker		1+	Public Art		1+
			Flag Pole		1
			Memorials		1



Site  
Furnishings

Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Benches		3+
Bike Racks		1	Bike Stations		1
Drinking Fountains		1			
Picnic Tables		2			



Pollution Control



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics



Environmental Conditions

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles Revetments Dog Waste Station		2 1+ 1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights Crosswalk		1+ TBD	Bollards Low Mast Lights Trail Lights Tree Grates Fencing Privacy Wall Retaining Wall Security Cameras Accent Lighting		1+ 1+ 1+ 1+ PRN PRN PRN PRN 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
WIFI Electrical Service Water Service		1 200 Amp 20 gpm			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Irrigation Mowstrips		1 TBD			
See Chapter xx for design standards regarding aesthetic standards for pocket parks.					
See Chapter xx for design standards regarding aesthetic standards for pocket parks.					

## Scale

< 3 acres, typically 1/4 acre

(Larger pocket parks are most desirable for efficient maintenance and operation)

Note: The scale of the parcel will determine classification and therefore dictate the facilities and amenities required/recommended as listed in this appendix.

## Location

Downtown and/or within residential or commercial development

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

Primary Method: Pedestrian

Secondary Method: Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- b) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





# 1.5 PRESERVE

## OVERVIEW

### Acronym/Abbreviation: P

The design, development, preservation and enhancement of all Preserves in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A Preserve is an area of land that is protected and managed to preserve a particular type of habitat and its flora and fauna which are often rare or endangered. Structures for environmental learning may be included in a context-sensitive manner.

## SIZE

Varies in size

## SERVICE AREA

City-wide

### Pedestrian/Cyclist:

0.5 mile is preferred for pedestrians and cyclists as it corresponds to a 10 minute walk/ 5 minute bike ride.



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of preserves must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1	Nature Center Meeting Room Multi-Purpose Room Restrooms Maintenance Storage Building		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot Playscape Picnic Area		1 1 1+	Amphitheater Pavilion Shade Structure		1+ 1+ 1+
Amenity	Reference	Min.	Amenities	Reference	Rec.
Multi-use Trail		1+			



Indoor  
Facilities &  
Amenities



Outdoor  
Facilities &  
Amenities



Circulation



Communication/  
Wayfinding

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Primary Entrance Sign		1	Entrance Sign (Secondary)		1+
Directional Signs/Maps		1+	Directional Signs/Maps		1+
<b>Informational Signs</b>			<b>Informational Signs</b>		
Hours of Operation		1+	Outdoor Bulletin Signs		1+
Ordinance Signs		1+	Mobile Applications		1+
ADA Parking Spaces		TBD	Interpretive Signs		1+
			Memorial Signs		1+
			Donor/Naming Signs		1+
			Recognition Signs		1+
			Reservations		1+
			ADA Parking Space		1+
			Beware of Snakes		1+
			Children Playing		PRN
			Crime Watch		PRN
			Do not Harvest		PRN
			Hide/Lock/Take		PRN
			Keep Out		PRN
			Lighting Warning		PRN
			No Alcohol		PRN
			No Dogs on Field		PRN
			No Golf Carts		PRN
			No Horseback Riding		PRN
			No Parking		PRN
			No Practice on Lined Fields		PRN



Communication/  
Wayfinding

Amenity	Reference	Min.	Amenity	Reference	Rec.
			<b>Informational Signs</b>		PRN
			No Skating		PRN
			No Smoking		PRN
			No Soft Toss on Fence		PRN
			No Swimming		PRN
			No Warm Up Area		PRN
			Notice of Surveillance		PRN
			Vehicles Prohibited		PRN



Culture & Identity

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Public Art		1+
			Flag Pole		1
			Memorials		1



Site  
Furnishings

Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Benches		3+
Drinking Fountains		1	Bike Racks		1
Picnic Tables		2	Bike Stations		1
			Grills		1



Pollution Control

Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Revetments		1+			
Dog Waste Station		1+			



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics



Environmental Conditions

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Crosswalks Security Lights		TBD 1+	Bollards Fencing Tree grates Mid mast lighting Low mast lighting Trail lights Accent lighting Privacy wall Retaining wall Security cameras		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Electrical Service Water Service			WIFI		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Irrigation Mowstrips	1 TBD				

## Scale

Should be of sufficient size to protect the natural resource and provide a buffer from off-site conditions

Typical size should be over 50 acres for management efficiency and to promote ecosystem services (can be smaller)

(Larger nature parks are most desirable for efficient maintenance and operation)

## Location

Downtown and/or within residential or commercial development

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

A) Allow diverse activities to occur simultaneously

b) facilities administrative visibility/control of facilities

C) complementary spaces form Functional areas that support one another ( cohesive site design)

1a) grouped activities  
maximize accessibility,  
control

2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Clear Creek

# 1.6 LINEAR PARK

## OVERVIEW

### Acronym/Abbreviation: LP

The design, development, preservation and enhancement of all Preserves in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A Linear Park, often called Greenways, are stretches of open space that can vary in size and length, but are typically longer than they are wide. This tract of parkland may contain passive and/or active amenities such as, but not limited to, green space with trails of various tread types, trailheads, and connects assets such as parks, schools, neighborhoods, and business districts. Linear parks generally do not contain restrooms.

## SIZE

Varies in size

## SERVICE AREA

City-wide

### Pedestrian/Cyclist:

0.5 mile is preferred for pedestrians and cyclists as it corresponds to a 10 minute walk/ 5 minute bike ride.



**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of linear parks must receive prior written authorization from the DPARD.

The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
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Amenity	Reference	Min.	Amenity	Reference	Rec.
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Amenity	Reference	Min.	Amenities	Reference	Rec.
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--	--	--	--	--	--

Amenity	Reference	Min.	Amenity	Reference	Rec.
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Amenity	Reference	Min.	Amenity	Reference	Rec.
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Amenity	Reference	Min.	Amenity	Reference	Rec.
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Indoor Facilities & Amenities



Outdoor Facilities & Amenities



Circulation



Communication/ Wayfinding



Culture & Identity



Site Furnishings



Pollution Control



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics



Environmental Conditions

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetic standards for linear park.					
See Chapter xx for design standards regarding environmental conditions for linear park					



## Scale

## Location

Downtown and/or within residential or commercial development

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- b) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

# 1.7 SPECIAL USE PARK

## OVERVIEW

### Acronym/Abbreviation: SUP

The design, development, preservation and enhancement of all Preserves in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A Special Use Park generally has a dedicated and unique use such as historical site, skate park, or bike park.

## SIZE

Varies in size

## SERVICE AREA

City-wide

### Pedestrian/Cyclist:

0.5 mile is preferred for pedestrians and cyclists as it corresponds to a 10 minute walk/ 5 minute bike ride.





Indoor  
Facilities &  
Amenities

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of special use parks must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Maintenance Storage Building		1+	Community Center		1+
			Recreation Center		1
			Advance Tech Program Rooms		1+
			Indoor Pools		1+
			Cardio Room		1+
			Concessions		1+
			Exercise Equip. Room		1+
			Group Exercise Studio		1
			Game Room		1+
			Gymnastic Center		1
			Gymnasium		1
			Indoor Ice Rink		1
			Indoor Track		1
			Meeting Room		1+
			Multi-purpose Room		1+
			Performance Room		1+
			Restrooms		1+
			Teen Center		1
			Weight Room		1
			Indoor Sports Complex		1+
			Natatorium		1
			Indoor Water Playground		1
			Senior Center		1



Outdoor  
Facilities &  
Amenities

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1	Amphitheater		1+
Pavilion		1	Pavilion		2+
Playscape		1+	Swimming Pool		1+
Picnic Area			Sprayground		1+
			Community Garden		1+
			Disc Golf Course		1+
			Water Park Amenity		1+
			Challenge Sports		1+
			Driving Range		1+
			Basketball Courts		1+
			Multi-purpose Court		1+
			Tennis Courts		2+
			Volleyball Courts		1+
			In-line Hockey Rink		1+
			Baseball Field (adult)		1+
			Baseball Field (Youth)		1+
			Football Field		1+
			Multi-purpose Field		1+
			Rugby Field		1+
			Soccer Field (adult)		1+
			Soccer Field (Youth)		1+
			Softball Field (adult)		1+
			Softball Field (Youth)		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Picnic Area		1+
			Playground		1/1
			Playscape		1
			Putting Green		1+
			Shade Structures (soft)		1+
			Bike Park		1+
			Dog Park		1
			Skate park		1
Amenity	Reference	Min.	Amenities	Reference	Rec.
Multi-use Trail		1+			



Outdoor  
Facilities &  
Amenities  
Contd.



Circulation



Communication/  
Wayfinding



Culture &  
Identity



Site  
Furnishings



Pollution Control

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Primary Entrance Sign		1	Entrance Sign (Secondary)		1+
<b>Informational Signs</b>			Directional Signs/Maps		1+
Hours of Operation		1+	<b>Informational Signs</b>		
Ordinance Signs		1+	Outdoor Bulletin Signs		1+
ADA Parking Spaces		TBD	Mobile Applications		1+
			Interpretive Signs		1+
			Memorial Signs		1+
			Donor/Naming Signs		1+
			Recognition Signs		1+
			Reservations		1+
			ADA Parking Space		1+
			Beware of Snakes		1+
			Children Playing		PRN
			Crime Watch		PRN
			Do not Harvest		PRN
			Hide/Lock/Take		PRN
			Keep Out		PRN
			Lighting Warning		PRN
			No Alcohol		PRN
			No Dogs on Field		PRN
			No Golf Carts		PRN
			No Horseback Riding		PRN
			No Parking		PRN
			No Practice on Lined Fields		PRN
			No Skating		PRN
			No Smoking		PRN
			No Soft Toss on Fence		PRN
			No Swimming		PRN
			No Warm Up Area		PRN
			Notice of Surveillance		PRN
			Vehicles Prohibited		PRN
Amenity	Reference	Min.	Amenity	Reference	Min.
			Public Art		1+
			Flag Pole		1
			Memorials		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Benches		3+
Bike Racks		1	Bike Stations		1
Picnic Tables		2	Drinking Fountains		1
			Grills		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Revetments		1+			
Dog Waste Station		1+			



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics



Environmental Conditions

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Scoreboards		1+	Outdoor Exercise Equipment		1+
Electrical Outlets		1+	Basketball Goals		1+
			Football Goals		3+
			Hockey Goals		1+
			Rugby Goals		2+
			Soccer Goals		2+
			Backstop		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Crosswalks		TBD	Bollards		1+
Security Lights		1+	Fencing		PRN
High Mast lighting		1+	Tree grates		1+
			Mid mast lighting		1+
			Low mast lighting		1+
			Trail lights		1+
			Accent lighting		1+
			Privacy wall		PRN
			Retaining wall		PRN
			Security cameras		PRN
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Service			WIFI		
Water Service					
WIFI					
Amenity	Reference	Min.	Amenity	Reference	Rec.
Irrigation		1+			
Mowstrips		TBD			
See Chapter xx for design standards regarding aesthetic standards for special use parks.					
See Chapter xx for design standards regarding aesthetic standards for special use parks					

## Scale

Varies depending on desired use (there are no specific guidelines for number of recommended acres)

## Location

Downtown and/or within residential or commercial development

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- b) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



**Water Works Park**

# 1.8 CEMETERY

## OVERVIEW

### Acronym/Abbreviation:CEM

The design, development, preservation and enhancement of all Preserves in the DPARD system shall comply with the following required and/or recommended specifications.



## DEFINITION

A Cemetery consists of burial plots, roads, storage, signage, trails, and the possibility of educational opportunities to celebrate the history of the cemetery.

## SIZE

Varies in size

## SERVICE AREA

City-wide





REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of cemeteries must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Maintenance Storage Building		1+	Restrooms		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1+	Pavilion		2+
Pavilion		1	Picnic Area		1+
			Playscape		1
			Shade Structures		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Primary Entrance Sign		1	Entrance Sign (Secondary)		
<b>Information Signs</b>			Directional Signs/Maps		
Hours of Operation		1+	<b>Informational Signs</b>		
Ordinance Signs		1+	Digital Displays		
ADA Parking Spaces		TBD	Marquee Signs		
			Outdoor Bulletin Signs		
			Mobile Applications		
			Interpretive Signs		
			Memorial Signs		
			Donor/Naming Signs		
			Recognition Signs		
			Reservations		
			ADA Parking Space		
			Lighting Warning		
			No Alcohol		
			No Horseback Riding		
			No Parking		
			No Skating		
			No Smoking		
			No Soft Toss on Fence		
			Notice of Surveillance		
			Vehicles Prohibited		



Indoor  
Facilities &  
Amenities



Outdoor  
Facilities &  
Amenities



Circulation



Wayfinding



Culture & Identity



Site Furnishings



Pollution Control



Recreational Support



Safety & Security



Technology & Utilities



Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Historical Marker		1+	Flap Pole Public Art Memorials		1 1+ 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches Bike Racks Picnic Tables		2 1 1+	Benches Bike Stations Drinking Fountains Grills		3 1 1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles Revetments Dog Waste Stations		2 1+ 1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Crosswalks High Mast Lighting Mid Mast Lighting Low Mast Lighting Trail Lights Accent Lighting		TBD 1+ 1+ 1+ 1+ 1+	Fencing Privacy Wall Retaining Wall Security cameras		PRN PRN PRN PRN
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Service Water Service			WIFI		
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Irrigation Mowstrips		1+ TBD			



Aesthetics



Environmental  
Conditions

See Chapter xx for design standards regarding aesthetic standards for cemeteries.

See Chapter xx for design standards regarding environmental conditions for cemeteries.

## Scale

Varies depending on desired use (there are no specific guidelines for number of recommended acres)

## Location

Downtown and/or within residential or commercial development

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## Spatial Organization

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- b) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



# Section 2: INDOOR FACILITIES & SPACES

This section outlines the required and recommended specifications for indoor facilities and spaces within the City of Denton. The definitions of the different types of indoor facilities and spaces found in Denton are listed below.

## ADMIN OFFICES

DEFINITION HERE

## ADVANCE TECH PROGRAM ROOM

The primary function of Advance Tech Program Rooms are for creative and educational purposes.

## AQUATICS: INDOOR WATER PLAYGROUND

The primary function of indoor swimming pools shall be to serve as the center of active aquatic recreational activities for all ages and all the residents of the entire City of Denton and/or the larger region at times.

## AQUATICS: INDOOR SWIMMING POOL

The primary function of indoor swimming pools shall be to serve as the center of active aquatic recreational activities for all ages and all the residents of the entire City of Denton and/or the larger region at times.

## CARDIO ROOM (DEDICATED)

Function of a cardio room is for cardiovascular fitness purposes.

## CLASSROOMS

DEFINITION HERE

## COMMUNITY CENTER

Function of a Community Center shall be to serve the entire community for social, educational, cultural and/or recreational activities.

## CONCESSIONS

Function of Concessions shall be to support active recreational activities.

## **EXERCISE EQUIPMENT ROOM (DEDICATED)**

Function of an exercise equipment room is to provide storage to physical fitness equipment and tools.

## **GROUP EXERCISE STUDIO**

Function of a group exercise studio is to provide space for physical fitness classes and group lessons.

## **GAME ROOM**

Function of a game room is individual and social activities.

## **GYMNASTIC CENTER**

Function of a gymnastic center is specialized towards gymnastics and/or competitions.

## **GYMNASIUM**

Function of a gymnasium is to support a multitude of active recreational activities.

## **INDOOR ICE RINK**

Function of an indoor ice rink is to support a multitude of individual and group recreational activities.

## **INDOOR PLAYGROUND**

The function of an indoor playground is active recreation and social interaction for users.

## **INDOOR SPORT COMPLEX**

Function of an indoor sports complex is to support group recreational activities including competitions year-round.

## **INDOOR TRACK**

Function of an indoor track is to support track and field related active recreation.

## **KITCHEN**

DEFINITION HERE

## **MEETING ROOM**

Function of a meeting room is focused on providing space for communication and providing space for groups to organize and interact.

## **MAINTENANCE STORAGE ROOM**

Function of maintenance storage building are to support maintenance efforts of staff.

## **MULTI-PURPOSE ROOM**

Function of a multi-purpose room is for focused communication, entertainment, social gathering, and the support of active recreational activities.

## **NATATORIUM**

Function of a natatorium is to support individual and group aquatic recreational activities.

## **NATURE CENTER**

Function of a nature center is education, conservation, and preservation.

## **PERFORMANCE ROOM**

Function of a performance rooms are focused on communication, education, and entertainment.

## **RECREATION CENTER**

Function of a recreation centers is to support a multitude of individual and group active recreational activities.

## **RESTROOMS**

Function of a senior center is focused communication, education, entertainment, social and passive/active recreational activities.

## **SENIOR CENTER**

Function of a senior center is focused communication, education, entertainment, social and passive/active recreational activities.

## **TEEN CENTER**

Function of a teen center is focused communication, education, entertainment, social and passive/active recreational activities.

## **WATER PARK**

Function of a water park is to support active/passive aquatics recreational activities.

## **WEIGHT ROOM (DEDICATED)**

Function of a weight room is for physical fitness.

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# X.X ADMIN OFFICE

## OVERVIEW

The design, development, preservation and enhancement of all admin offices in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

INSERT DEFINITION HERE

## SERVICE AREA

Pedestrian/Cyclist:

Commuters (vehicular):

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

Primary Method:

Secondary Method:

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of an admin office must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>

# X.X ADVANCE TECH PROGRAM ROOM

## OVERVIEW

### Acronym/Abbreviation: ATPR

The design, development, preservation and enhancement of all advance tech program rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of Advance Tech Program Rooms are for creative and educational purposes.

## SERVICE AREA

### Pedestrian/Cyclist:

1/2 mile is preferred for pedestrians & cyclist as it corresponds to a 10 minute walk/5 minute bike ride. This is a primary initiative for DPARD.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

Primary Method: Pedestrian

Secondary Method: Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Special Use Pare		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Centers		1+
			Recreation Centers		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of advance tech program room must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Classroom		20 person min			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Drop off/Pick up Zone		1	Drop off/Pick up		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Sign		1+	Informational Signs		
Informational Signs			Reservations		1+
Hours of Operation		1+			

# X.X AQUATICS: INDOOR WATER PLAYGROUND

## OVERVIEW

### Acronym/Abbreviation: IWPG

The design, development, preservation and enhancement of all indoor water playgrounds in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of indoor swimming pools shall be to serve as the center of active aquatic recreational activities for all ages and all the residents of the entire City of Denton and/or the larger region at times.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities



Indoor  
Facilities &  
Spaces



Wayfinding

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Special Use Park		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Natatorium		1+
			Water Park		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of an indoor water playground must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+			
Classroom		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Sign		1+	Informational Signs		
Informational Signs			Reservations		1+
Hours of Operation		1+			

# X.X AQUATICS: INDOOR SWIMMING POOL

## OVERVIEW

### Acronym/Abbreviation: ISP

The design, development, preservation and enhancement of all indoor swimming pools in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of Indoor Swimming Pools shall be to serve as the center of active aquatic recreational activities for all ages and all the residents of all entire City of Denton and/or the larger region at times.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1+			
Community Park		1+			
Preserve		1+			
Neighborhood Park		1+			
Special Use Park		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1
			Natatorium		1+
			Recreation Center		1
			Water Park		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of indoor aquatic swimming pool must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+			
Classroom		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Sign		1+	Informational Signs		1+
Informational Signs			Reservations		
Hours of Operation		1+			



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities



Indoor  
Facilities &  
Spaces



Outdoor  
Facilities



Wayfinding

# X.X CARDIO ROOM (DEDICATED)

## OVERVIEW

### Acronym/Abbreviation: DCR

The design, development, preservation and enhancement of all cardio rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a cardio room is for cardiovascular fitness purposes.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1+			
Community Park		1+			
Preserve		1+			
Neighborhood Park		1+			
Special Use Park		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Recreation Center		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a cardio room must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Classroom		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Sign		1+			
Informational Signs					
Hours of Operation		1+			



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities



Indoor  
Facilities &  
Spaces



Wayfinding

# X.X CLASSROOMS

## OVERVIEW

### Acronym/Abbreviation: XX

The design, development, preservation and enhancement of all classrooms in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[INSERT FUNCTION HERE]

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

Primary Method: Pedestrian

Secondary Method: Bicycle

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.

<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a classroom must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>

# X.X COMMUNITY CENTER

## OVERVIEW

### Acronym/Abbreviation: CC

The design, development, preservation and enhancement of all community centers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a community Center shall be to serve the entire community for social, educational, cultural and/or recreational activities.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

A) Allow diverse activities to occur Simultaneously

B) facilities administrative visibility/control of facilities

C) complementary spaces form Functional areas that support one another ( cohesive site design)

1a) grouped activities maximize accessibility, control

2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities



Indoor  
Facilities &  
Amenities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1+			
Community Park		1+			
Preserve		1+			
Neighborhood Park		1+			
Special Use Park		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Recreation Center		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a community center must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+	Admin Office		1+
			Advance Tech Program Room		1
			Concessions		1
			Cardio Room		1
			Classrooms		1
			Exercise Equip. Room		1+
			Indoor Playground		1
			Kitchen		1
			Group Exercise Studio		1
			Game Room		1+
			Gymnastic Center		1
			Gymnasium		1
			Indoor Playground		1
			Indoor Track		1
			Meeting Room		1+
			Multi-purpose Room		1+
			Performance Room		1+
			Teen Center		1
			Weight Room		1

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Multi-Use Trail	1+				
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Directory Signs/Maps	1+		Primary Destination Signs		1+
<b>Informational Signs</b>			<b>Informational Signs</b>		1+
Hours of Operation	1+		Digital Displays		1+
ADA Parking Spaces	TBD		Marquee Signs		1+
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Public Art		1+	Memorials		1
Flag Pole		1+			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Benches		2	Bike Station		1
Bike Rack		1			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Revetments		1+			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Security Lights		1+	Bollards		1+
			Tree Grates		1+
			High Mast		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+



Outdoor Facilities



Circulation



Wayfinding



Culture & Identity



Site Furnishing



Pollution Control



Safety & Security



Technology



Aesthetics

<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
Amenity	Reference	Min	Amenity	Reference	Rec.
WIFI		1			
Computer Workstations		5+			
See Chapter xx for Design standards regarding aesthetic standards for Community Centers					

# X.X CONCESSIONS

## OVERVIEW

### Acronym/Abbreviation: CONC

The design, development, preservation and enhancement of all concessions in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of concessions shall be to support active recreational activities.

## SERVICE AREA

### Pedestrian:

Service intended to support the immediate facility in which it is located.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

A) Allow diverse activities to occur

Simultaneously

B) facilities administrative visibility/control of facilities

C) complementary spaces form

Functional areas that support one another ( cohesive site design)

1a) grouped activities  
maximize accessibility,  
control

2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facilities shall be located at each of the following locations.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Park Community Park Preserve Neighborhood Park Special Use Park		1+ 1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Indoor Sports Complex Water Park		1 1	Community Center Recreation Center Indoor Ice Rink Gymnastic Center Natatorium		1 1 1 1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Sport Complex		1	Driving Range Tennis Courts		1 1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of concessions must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Tertiary Destination Sign Quaternary Destination Sign Informational Signs Hours of Operation		1 1 1+ 1+			



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities



Outdoor  
Facilities



Wayfinding

# X.X EXERCISE EQUIPMENT ROOM

## OVERVIEW

### Acronym/Abbreviation: EER

The design, development, preservation and enhancement of all exercise equipment rooms the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of an exercise equipment room is to provide storage to physical fitness equipment and tools.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

A) Allow diverse activities to occur

Simultaneously

B) facilities administrative visibility/control of facilities

C) complementary spaces form

Functional areas that support one another ( cohesive site design)

1a) grouped activities  
maximize accessibility,  
control

2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Neighborhood Park		1			
Special Use Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1
			Recreation Center		1

# X.X GROUP EXERCISE STUDIO

## OVERVIEW

### Acronym/Abbreviation: GES

The design, development, preservation and enhancement of all group exercise studios in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a group exercise studio is to provide space for physical fitness classes and group lessons.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

A) Allow diverse activities to occur

Simultaneously

B) facilities administrative visibility/control of facilities

C) complementary spaces form

Functional areas that support one another ( cohesive site design)

1a) grouped activities

maximize accessibility, control

2a) separated activities

minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
City Park		1			
Community Park		1			
Preserve		1			
Neighborhood Park		1			
Special Use Park		1			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
			Community Center		1
			Recreation Center		1



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities

# X.X GAME ROOM

## OVERVIEW

### Acronym/Abbreviation: GR

The design, development, preservation and enhancement of all game rooms in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Function of a game room is individual and social activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
This indoor facilities shall be located at each of the following locations.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
City Park		1			
Community Park		1			
Preserve		1			
Neighborhood Park		1			
Special Use Park		1			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
			Community Center		1
			Recreation Center		1
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a game room must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Computer Workstations		10+			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Secondary Destination Signs		1+	<b>Informational Signs</b>		
<b>Informational Signs</b>			Reservation		1+
Hours of Operation		1+			



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities



Technology



Wayfinding

# X.X GYMNASTIC CENTER

## OVERVIEW

### Acronym/Abbreviation: GC

The design, development, preservation and enhancement of all gymnastic centers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a gymnastic center is specialized towards gymnastics and/or competitions.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park Community Park Neighborhood Park Special Use Park		1 1 1 1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center Recreation Center		1 1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a gymnastic center must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+	Admin Office Concessions Classroom		1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directory Signs Informational Signs Hours of Operation ADA Parking Spaces		1+ 1+ TBD	Primary Destination Sign Informational Signs Digital Displays Marquee Signs Outdoor Bulletin Signs Mobile Applications Memorial Markers Donor/Naming Rights Signs		1+ 1+ 1+ 1+ 1+ 1+ 1+



Culture & Identity

Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art Flag Pole		1+ 1	Memorials		1



Site Furnishings

Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches Bike Rack		2 1			



Pollution Control

Amenity	Reference	Min.	Amenity	Reference	Rec.
Revetments		1+			



Safety and Security

Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards Tree Grates High Mast Mid Mast Lighting Low Mast Lighting Trail Lights		1+ 1+ 1+ 1+ 1+



Aesthetics

See Chapter xx for design standards regarding aesthetic standards for Gymnastic Centers

# X.X GYMNASIUM

## OVERVIEW

### Acronym/Abbreviation: GYM

The design, development, preservation and enhancement of all gymnasiums in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Function of a gymnasium is to support a multitude of active recreational activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park Community Park Special Use Park		1 1 1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center Recreation Center		1 1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a gymnasium must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Signs Informational Signs Hours of Operation		1+  1+			
See Chapter xx for design standards regarding aesthetic standards for Gymnasiums					



Developed  
Open Space



Indoor  
Facilities &  
Amenities



Communication/  
Wayfinding



Aesthetics

# X.X INDOOR ICE RINK

## OVERVIEW

### Acronym/Abbreviation: IIR

The design, development, preservation and enhancement of all indoor ice rinks in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of an indoor ice rink is to support a multitude of individual and group recreational activities.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Special Use Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1
			Recreation Center		1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of an ice rink must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+	Admin Office		2+
			Classroom		1
			Concessions		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use trail		1+			



Developed  
Open Space



Indoor  
Facilities &  
Amenities



Indoor Facilities



Outdoor Facilities



Circulation



Communication/  
Wayfinding



Culture & Identity



Site Furnishings



Pollution Control



Safety & Security



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directory Signs/Maps		1+	Primary Destination Sign		1+
			<b>Informational Signs</b>		
			Digital Displays		1+
			Marquee Signs		1+
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+	Memorials		1
Flag Pole		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Bike Rack		1
	Reference	Min.	Amenity	Reference	Rec.
Revetments		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			Tree Grates		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+
See Chapter xx for design standards regarding aesthetic standards for indoor ice rinks.					

# X.X INDOOR PLAYGROUND

## OVERVIEW

### Acronym/Abbreviation: IPG

The design, development, preservation and enhancement of all indoor playgrounds in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The function of an indoor playground is active recreation and social interaction for users.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Special Use Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1
			Recreation Center		1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of indoor playground must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Signs		1+	Informational Signs		1+
Informational Signs Reservations		1+	Hours of Operation		
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for Design standards regarding aesthetic standards for indoor playgrounds.					

# X.X INDOOR SPORTS COMPLEX

## OVERVIEW

### Acronym/Abbreviation: ISC

The design, development, preservation and enhancement of all exercise equipment rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of an indoor sports complex is to support group recreational activities including competitions year round.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

**Primary Method:** Pedestrian

**Secondary Method:** Bicycle

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park Community Park Special Use Park		1 1 1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center Recreation Center		1 1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of an indoor sports complex must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+	Admin Office Concessions Classroom		1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			



Developed  
Open  
Space



Indoor  
Facilities &  
Amenities



Indoor  
Facilities &  
Amenities



Outdoor  
Facilities &  
Amenities



Circulation



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directory Signs		1+	Primary Destination Sign		1+
<b>Informational Signs</b>			<b>Informational Signs</b>		
Hours of Operation		1+	Digital Displays		1+
ADA Parking Spaces		TBD	Marquee Signs		1+
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+



Culture & Identity

Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+	Memorials		1
Flag Pole		1			



Site

Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Bike Station		1
Bike Rack		1			



Pollution Control

Amenity	Reference	Min.	Amenity	Reference	Rec.
Revetments		1+			



Safety & Security

Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			Tree Grates		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+



Aesthetics

Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetic standards for indoor sports complex.					

# X.X INDOOR TRACK

## OVERVIEW

### Acronym/Abbreviation: IT

The design, development, preservation and enhancement of all indoor tracks in the DPARD system shall comply with the following required and/or recommended specifications.

## OVERVIEW

### Acronym/Abbreviation: IT

The design, development, preservation and enhancement of all exercise equipment rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of an indoor track is to support track and field related active recreation.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park Community Park Special Use Park		1 1 1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center Recreation Center Indoor Sports Complex		1 1 1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of an indoor track must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Signs Informational Signs Hours of Operation		1+  1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetic standards for indoor tracks.					

# X.X KITCHEN

## OVERVIEW

### Acronym/Abbreviation: KIT

The design, development, preservation and enhancement of all kitchens in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

### SERVICE AREA

Not Applicable

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a kitchen must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>



# X.X MAINTENANCE STORAGE ROOM

## OVERVIEW

### Acronym/Abbreviation: MSB

The design, development, preservation and enhancement of all maintenance storage rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## OVERVIEW

### Acronym/Abbreviation: MSB

The design, development, preservation and enhancement of all exercise equipment rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of maintenance storage building are to support maintenance efforts of staff.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

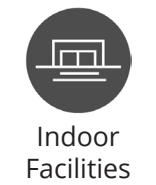
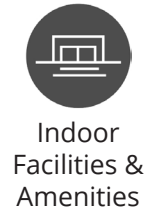
### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Linear Park		1			
Nature Park		1			
Neighborhood Park		1			
Special Use Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1
			Recreation Center		1
			Indoor Sports Complex		1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a maintenance storage building must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Admin Office		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+



Technology & Utilities



Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Computer Workstations			WIFI		
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding landscape standards for maintenance Storage building.					

# X.X MEETING ROOM

## OVERVIEW

### Acronym/Abbreviation: MR

The design, development, preservation and enhancement of all meeting rooms in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Function of a meeting room is focused on providing space for communication and providing space for groups to organize and interact.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Preserve		1			
Special Use Park		1			



Developed  
Open Space



Indoor  
Facilities &  
Amenities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1
			Recreation Center		1
			Natorium		1
			Nature Center		1

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a meeting room must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		

Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			



Outdoor Facilities

Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Signs		1+	Informational Signs		
Informational Signs			Reservations		1+
Hours of Operation		1+			



Communication/  
Wayfinding

Amenity	Reference	Min.	Amenity	Reference	Rec.
Computer Workstations		1+			



Tech & Utilities

Amenity	Reference	Min.	Amenity	Reference	Rec.
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Aesthetics

See Chapter xx for design standards regarding aesthetic standards for indoor tracks.					
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# X.X MULTI-PURPOSE ROOM

## OVERVIEW

### Acronym/Abbreviation: MPR

The design, development, preservation and enhancement of all multi-purpose rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a multi-purpose room is for focused communication, entertainment, social gathering and the support of active recreational activities.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Preserve		1			
Special Use Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1
			Recreation Center		1
			Natatorium		1
			Nature Center		1
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a multi-purpose must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Signs		1+	<b>Informational Signs</b>		
Informational Signs			Reservations		1+
Hours of Operation		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Computer Workstations		1+			



Developed  
Open Space



Indoor  
Facilities &  
Amenities



Communication/  
Wayfinding



Tech & Utilities

# X.X NATATORIUM

## OVERVIEW

### Acronym/Abbreviation: NAT

The design, development, preservation and enhancement of all natatoriums in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Function of a natatorium is to support individual and group aquatic recreational activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Special Use Park		1



Developed  
Open  
Space



## REQUIRED SPECIFICATIONS

The following specifications are required for this classification of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a park must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must receive prior written authorization from the DPARD.



Amenity	Reference	Min.	Amenity	Reference	Rec.
Indoor Pool		1	Admin Office		1+
Restrooms		1+	Concessions		1
			Indoor Water Playground		1+
			Meeting Room		1+
			Multi-Purpose Room		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot	1				



Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Directory Signs		1+	Primary Destination Sign		1+
Informational Signs			Informational Signs		
Hours of Operation		1+	Digital Displays		1+
ADA Parking Spaces		TBD	Marquee Signs		1+
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+	Memorials		1
Flag Pole		1			



Site  
Furnishings



Pollution Control



Safety &  
Security



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bike Rack		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Revetments		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			Tree Grates		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetic standards for natatorium.					

# X.X NATURE CENTER

## OVERVIEW

### Acronym/Abbreviation: NCTR

The design, development, preservation and enhancement of all nature centers in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Function of a nature center is education, conservation and preservation.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Preserve		1
			Special Use Park		1

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a nature park must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+	Admin Office Concessions Classroom		1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches Security Lighting		1+ 1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Revetments		1+			



Indoor  
Facilities &  
Amenities



Outdoor  
Facilities &  
Amenities



Circulation



Site  
Furnishings



Pollution  
Control



Safety & Security



Tech & Utilities



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Computer Workstations		5+	WIFI		1
See Chapter xx for design standards regarding aesthetic standards for nature center.					

# X.X PERFORMANCE ROOM

## OVERVIEW

### Acronym/Abbreviation: PR

The design, development, preservation and enhancement of all performance rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a performance rooms are focused on communication, education and entertainment.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park Community Park Special Use Park		1 1 1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center Recreation Center		1 1 1 1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a performance room must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Signs Informational Signs Hours of Operational		1+  1+	Informational Signs Reservations		1+

# X.X RECREATION CENTERS

## OVERVIEW

### Acronym/Abbreviation: RCTR

The design, development, preservation and enhancement of all recreation centers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a recreation centers is to support a multitude of individual and group active recreational activities.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Park		1
			Community Park		1
			Special Use Park		1



Developed  
Open  
Space



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of park in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a recreation center must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of park to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+	Admin Office		2+
			Advance Tech Program Room		1
			Concessions		1
			Cardio Room		1
			Exercise Equipment Room		1+
			Indoor Pool		1
			Group Exercise Studio		1
			Game Room		1+
			Gymnastic Center		1
			Gymnasium		1
			Indoor Ice Rink		1
			Indoor Playground		1
			Indoor Track		1
			Meeting Room		1+
			Multi-purpose room		1+
			Performance Room		1+
			Teen Center		1
			Weight Room		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1	Amphitheater		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directory Signs/Maps		1+	Primary Destination Signs		1+
Informational Signs			Informational Signs		
Hours of Operation		1+	Digital Displays		1+
ADA Parking Spaces		TBD	Marquee Signs		1+
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+



Indoor  
Facilities &  
Amenities



Outdoor Facilities  
& Amenities



Circulation



Communication/  
Wayfinding



Culture & Identity



Site Furnishings



Pollution Control



Safety & Security



Tech & Utilities



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art Flag Pole		1+ 1	Memorials		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bike Racks Bike Stations		2 1	Benches		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Revetments		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards Tree grates High Mast Lighting Mid Mast Lighting Low Mast Lighting Trail Lights		1+ 1+ 1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
WIFI		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetic standards for Recreation Centers.					

# X.X RESTROOMS

## OVERVIEW

### Acronym/Abbreviation: RR

The design, development, preservation and restrooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of restrooms are to provide essential public amenity in high use area.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed Open Space



Indoor Facilities



Outdoor Facilities



Circulation



Communication/wayfinding

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Preserve		1			
Special Use Park					
Amenity	Reference	Min.	Amenity	Reference	Rec.
Indoor Water Playground		1+			
Indoor Swimming Pool		1			
Community Center		1+			
Gymnastic Center		1			
Indoor Sports Complex		1			
Natatorium		1			
Senior Center		1			
Recreational Centers		1+			
Senior Center		1+			
Water Park		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Swimming Pool			Bike Park		
Sprayground			Dog Park		
Plaza			Skate Park		
Sports Complex					
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Mountain Bike Trails		1+
			Multi-Use Trails		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of indoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of restrooms must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of indoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Tertiary Destination Sign		1			



Site  
Furnishings



Safety &  
security



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Drinking Fountain		1			
Receptacles		2			
Security Light		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1	Bollards		1+
			Tree Grates		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetic standards for restrooms.					

# X.X SENIOR CENTER

## OVERVIEW

### Acronym/Abbreviation: SCTR

The design, development, preservation and enhancement of all senior centers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a senior center is focused communication, education, entertainment, social and passive/active recreational activities.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park Community Park Special Use Park		1 1 1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Center Recreation Center		1+ 1+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of indoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of senior center must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of indoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Restrooms		1+	Admin Office Classroom		2+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1	Amphitheater		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directory Signs/Maps		1+	Primary Destination Signs		1+
<b>Informational Signs</b>			<b>Informational Signs</b>		
Hours of Operation		1+	Digital Displays		1+
ADA Parking Spaces		TBD	Marquee Signs		1+
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
					1+



Culture & Identity

Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+	Memorials		1
Flag Pole		1			



Site

Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2			



Pollution Control

Amenity	Reference	Min.	Amenity	Reference	Rec.
Revetments		1+			



Safety & Security

Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			Tree Grates		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+



Technology & Utilities

Amenity	Reference	Min.	Amenity	Reference	Rec.
Computer Workstations		10+			



Landscape

See Chapter xx for design standards regarding landscaping for a senior center.



# X.X TEEN CENTER

## OVERVIEW

### Acronym/Abbreviation: TCTR

The design, development, preservation and enhancement of all exercise equipment rooms in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Function of a teen center is focused communication, education, entertainment, social and passive/active recreational activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Special Use Park		1			



Developed  
Open Space



Indoor Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Center		1+			
Recreation Center		1+			

**REQUIRED SPECIFICATIONS**

The following are specifications are required for this classifications of indoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a teen center must receive prior written authorization from the DPARD.

**RECOMMENDED SPECIFICATIONS**

The following specifications are recommended (not required) for this classifications of indoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Admin Office		2+
			Classroom		1+



Indoor Facilities

Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			



Circulation

Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Signs		1+	Informational Signs		
Informational Signs		1+	Reservations		1+
Hours of Operation		1+			



Communication/  
Wayfinding

Amenity	Reference	Min.	Amenity	Reference	Rec.
Computer Workstations		10+			



Technology

# X.X WATER PARK

## OVERVIEW

### Acronym/Abbreviation: WP

The design, development, preservation and enhancement of all water parks in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Function of a water park is to support active/passive aquatics recreational activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Special Use Park		1			



Developed  
Open  
Space

## REQUIRED SPECIFICATIONS

## RECOMMENDED SPECIFICATIONS

The following are specifications are required for this classifications of indoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a water park must receive prior written authorization from the DPARD.

The following specifications are recommended (not required) for this classifications of indoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.



Amenity	Reference	Min.	Amenity	Reference	Rec.
Concessions		1	Admin Office		1+
Restrooms		1+	Classroom		1+
			Indoor Water Playground		1+
			Indoor Pool		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Amphitheater		1+	Parking Lot		1+
Sprayground		1+			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Directory Signs/Maps		1+	Primary Destination Signs		1+
<b>Informational Signs</b>			<b>Informational Signs</b>		
Hours of Operation		1+	Digital Displays		1+
ADA Parking Spaces		TBD	Marquee Signs		1+
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+	Memorials		1
Flag Pole		1			



Site Furnishings



Pollution Control



Safety & Security



Aesthetics



Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bike Rack		1	Benches		1+
Revetments		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			Tree Grates		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+
See Chapter xx for design standards regarding aesthetics for a water park.					
See Chapter xx for design standards regarding landscaping for a water park.					

# X.X WEIGHT ROOM (DEDICATED)

## OVERVIEW

### Acronym/Abbreviation: WR

The design, development, preservation and enhancement of all weight rooms in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Function of a weight room is for physical fitness.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open Space



Indoor Facilities



Communication/  
Wayfinding

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This indoor facility shall be located at each of the following locations in the quantities required.			This indoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City park		1			
Community park		1			
Special Use Park		1			
Amenity	Amenity	Min.	Amenity	Amenity	Rec.
			Community Centers		1+
			Recreation Centers		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of indoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a weight room must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of indoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Secondary Destination Sign		1+			
<b>Informational Signs</b>					
Hours of Operation		1+ TBD			



# Section 3: OUTDOOR FACILITIES & AMENITIES

This section outlines the required and recommended specifications for outdoor facilities and amenities within the City of Denton. The following are the definition of the items that can be fund in the following pages. Outdoor facilities are planned, designed and built to serve cultural, social, educational active/passive recreational and special use needs.

## AMPHITHEATER

An outdoor theater, usually semicircular or elliptical, with a stage or area for performances surrounded by seats. The primary function of an amphitheater is focused on communication, education, and entertainment.

## AQUATICS: SWIMMING POOLS

A swimming pool is an artificial area of water for swimming. The primary function of swimming pools is to support active aquatic recreational activities.

## AQUATICS: SPRAY-GROUNDS

A spray-ground is a recreation area that has little to no standing water but instead systems of water hoses that spray water. The primary function of spray-grounds is to support active aquatic recreational activities.

## AQUATICS: WATER PARK AMENITIES

The primary function of water park amenities is to support active aquatic recreational activities.

## COURSES: GOLF

The primary function of a golf course is to support a specific recreational activity as well as to enhance social activities.





### **FIELDS: SOFTBALL (ADULT)**

The primary function of adult soccer fields are to provide a playing surface for specific recreational activities.

### **FIELDS: SOFTBALL (YOUTH)**

The primary function of adult softball fields are to provide a playing surface for specific recreational activities youth.

### **PARKING LOTS**

The primary function of parking lots are to provide a surface for temporary transportation storage in support to recreational activities.

### **PAVILIONS**

The primary function of pavilions are to provide an enclosure and surface for specific recreational activities.

### **PICNIC AREA**

The primary function of picnic areas is to identify specific areas intended to support specific recreational activities. Although all residents may use this facility, the typical users include pre-teens through adults.

### **PLAYGROUNDS**

The primary function of playgrounds is to provide a surface and equipment for age specific recreational activities. Although all residents may use this facility, the typical users include children 2-5 and 5-12. A playground is an area designed for children to play freely. Playgrounds shall meet the needs of children of different ages and abilities.

### **PLAYSCAPES**

The primary function of playscapes is to identify specific natural areas intended to support specific recreational activities. Although all residents may use this facility, the typical users include pre-teens through senior adults.

### **PLAZA**

The primary function of plazas is to identify specific areas and to provide a surface that support specific recreational activities.

## **PUTTING GREENS**

The primary function of putting greens are to provide an enclosure and surface to support specific recreational activities.

## **SHADE STRUCTURES**

The primary function of shade structures is to provide enclosure to support specific recreational activities.

## **SPORTS COMPLEX**

The primary function of sports complexes are to provide a grand enclosure with multiple sports facilities to support specific recreational activities.

## **BIKE PARK**

The primary function of bike parks is to provide a surface to support specific recreational activities.

## **DOG PARK**

The primary function of dog parks is to provide an enclosure and surface to support specific recreational activities.

## **SKATE PARKS**

The primary function of bike parks is to provide a surface to support specific recreational activities.

## **WILDFLOWER PRAIRIE**

The primary function of a wildflower prairie is for conservation and preservation supporting native flora and fauna.

## **BOTANICAL GARDEN**

The primary function of botanical gardens are education, entertainment, and beautification.

## **LAKES/PONDS/STREAMS**

The primary function of lakes/ponds/streams are education, entertainment, recreation and beautification.

## FUNCTION

The primary function of an amphitheater is focused on communication, education, and entertainment.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





# OVERVIEW

## Acronym/Abbreviation: OSP

The design, development, preservation and enhancement of all swimming pools in the DPARD system shall comply with the following required and/or recommended specifications.

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form  
Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility,  
control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**







## **FUNCTION**

The primary function of spray-grounds is to support active aquatic recreational activities.

## **SERVICE AREA**

### **Commuters (vehicular):**

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## **Accessibility**

Must be compliant with Americans with Disabilities act (ADA), Title 24

## **Compliance**

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## **SPATIAL ORGANIZATION**

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### **1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### **2) Potential for growth/expansion to meet the needs of a growing population**

### **3) Compatibility for multi-generational population**

### **4) Universal accessibility**





## **FUNCTION**

The primary function of water park amenities is to support active aquatic recreational activities.

## **SERVICE AREA**

### **Commuters (vehicular):**

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## **Accessibility**

Must be compliant with Americans with Disabilities act (ADA), Title 24

## **Compliance**

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## **SPATIAL ORGANIZATION**

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### **1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### **2) Potential for growth/expansion to meet the needs of a growing population**

### **3) Compatibility for multi-generational population**

### **4) Universal accessibility**





## FUNCTION

The primary function of community gardens is to support educational, social and recreational activities.

## SERVICE AREA

### **Pedestrians/Cyclists:**

Primarily serve patrons within the immediate neighborhoods.

### **Commuters (vehicular):**

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### **1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### **2) Potential for growth/expansion to meet the needs of a growing population**

### **3) Compatibility for multi-generational population**

### **4) Universal accessibility**







# OVERVIEW

## Acronym/Abbreviation: DG

The design, development, preservation and enhancement of all disc golf courses in the DPARD system shall comply with the following required and/or recommended specifications.

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**

## REQUIRED SPECIFICATIONS

The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of disc golf courses must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1
			Pavilion		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1	<b>Informational Signs</b>		
<b>Informational Signs</b>			Outdoor Bulletin Signs		1+
Hole Numbers		PRN	Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		1 every 3 holes	Bike Rack		1
Picnic Tables		2	Drinking Fountain		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Outdoor Facilities



Circulation



Communication/  
Wayfinding



Site Furnishing



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Goals		9 or 18			
T Pads		2 @ every hole			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding landscape for disc golf courses.					
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetics for disc golf courses.					

# X.X COURSES: GOLF

## OVERVIEW

### Acronym/Abbreviation: GC

The design, development, preservation and enhancement of all golf courses in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of a golf course is to support a specific recreational activity as well as to enhance social activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

#### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

#### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			Special Use Park		1

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of golf courses must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lot		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1	<b>Informational Signs</b>		
<b>Informational Signs</b>			Outdoor Bulletin Signs		1+
Hole Numbers		PRN	Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		1 every 3 holes	Bike Rack		1
Picnic Tables		2	Drinking Fountain		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
T Pads		2 @ every hole			



Outdoor Facilities



Circulation



Communication/  
Wayfinding



Site  
Furnishing



Pollution Control



Recreational  
Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting Low Mast Lighting Trail Lights		1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding landscape for golf courses.					
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetics for golf courses.					



# X.X COURSES: CHALLENGE SPORTS

## OVERVIEW

### Acronym/Abbreviation: CS

The design, development, preservation and enhancement of all challenge sports course in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of a challenge sports courses is to support specific recreational activities that challenge the mind and body as well as to enhance social activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

#### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

#### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1
			Community Park		1
			Special Use Park		1



Developed  
Open  
Space

## REQUIRED SPECIFICATIONS

## RECOMMENDED SPECIFICATIONS

The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of challenge sports courses must receive prior written authorization from the DPARD.

The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
			<b>Informational Signs</b>		
			Outdoor Bulletin Signs		1+
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Trail Lights		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding landscape for challenge sports courses.					
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetics for challenge sports courses.					



Circulation



Communication/  
Wayfinding



Pollution  
Control



Safety &  
Security



Landscape



Aesthetics

# X.X COURSES: DRIVING RANGE

## OVERVIEW

### Acronym/Abbreviation: DRC

The design, development, preservation and enhancement of all driving range course in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of a driving range course is to support a specific recreational activity as well as to enhance social activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

#### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

#### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1
			Special Use Park		1



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of spray-grounds must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Concession		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Shade Structures		1+	Parking Pavilion		1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-use Trail		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs <b>Informational Signs</b> Hours of Operation ADA Parking Spaces		1+ 1+  1+ TBD	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers Donor/Naming Rights Signs		1+  1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Bike Rack Drinking Fountain Picnic Tables		1 1 2
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Indoor Facilities



Outdoor  
Facilities



Circulation



Communication/  
Wayfinding



Site  
Furnishing



Pollution Control



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Ball field Lighting		1+	High Mast Lighting		1+
Security Lights		1+	Mid Mast Lighting		1+
Fencing		PRN	Low Mast Lighting		1+
			Trail Lights		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Service		200 amp			
Water Service		20 gpm			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Irrigation		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
See Chapter xx for design standards regarding aesthetics for driving range courses.					

# X.X COURTS: BASKETBALL

## OVERVIEW

### Acronym/Abbreviation: BBC

The design, development, preservation and enhancement of all basketball courts in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of basketball courts are to support specific recreational activities as well as to enhance social activities.

### SERVICE AREA

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

#### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

#### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City Park		1	Neighborhood Park		1
Community Park		1	Special Use Park		1



Developed  
Open  
Space

## REQUIRED SPECIFICATIONS

The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of basketball courts must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.



Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1+	<b>Informational Signs</b>		
<b>Informational Signs</b>			Mobile Applications		1+
Court Numbers		1+	Memorial Markers		1+
			Donor/Naming Rights Signs		1+
			Reservations		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		1+			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Basketball Goals		1+			
Electrical Outlets		1+			



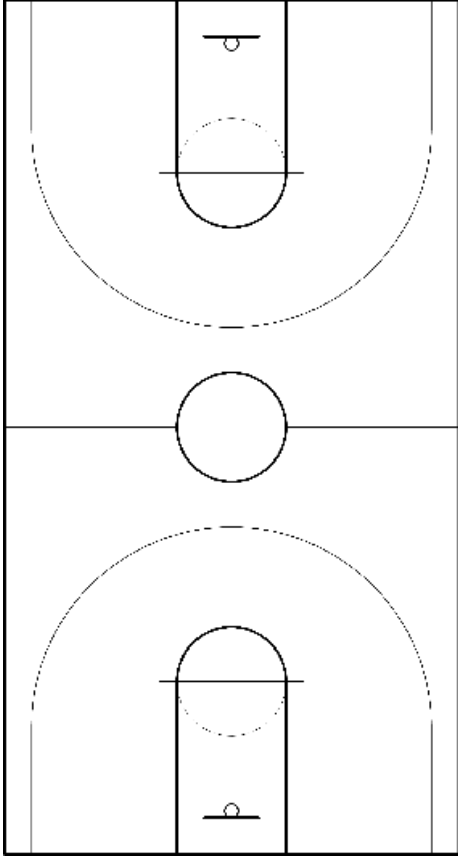
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting		1+
Fencing		PRN	Low Mast Lighting		1+



Amenity	Specification
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically
Drainage	Shall have a 1% maximum slope for positive drainage



Aesthetics

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
Amenity	Specification
Surfacing	a) Court finish shall be integral colored concrete with medium broom finish (to prevent slipping) b) Court marking shall be wear resistant c) Court markings shall be a minimum of 2" in width, primary court marking shall be white
Spacing	a) multiple courts, side by side or end to end, shall have a minimum space between courts of 10'  b) there shall be an area of 10' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards
Color	<b>Black:</b> chain link fencing around basketball courts ( black vinyl coated) <b>Green:</b> surfacing and the background on signage <b>Blue:</b> surfacing and the background on signage <b>White:</b> shall be used for boundary lines and text/graphics on signage
Dimensions/Acreage	<b>Basketball Court:</b> Full Court <b>Field Dimensions:</b> 84' X 50' <b>Minimum Acreage:</b> .11 acres
Standard Layout	<b>Standard Basketball Court Layout 1</b>  



# X.X COURTS: MULTI-PURPOSE

## OVERVIEW

### Acronym/Abbreviation: MPC

The design, development, preservation and enhancement of all multi-purpose courts in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of multi-purpose courts are to support a multitude of recreational activities as well as to enhance social activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is granted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City Park		1	Neighborhood Park		1
Community Park		1	Special Use Park		1



Communication/  
Wayfinding

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of multi-purpose courts must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1+	<b>Informational Signs</b>		
<b>Informational Signs</b>			Mobile Applications		1+
Court Numbers		1+	Memorial Markers		1+
			Donor/Naming Rights Signs		1+
			Reservations		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Basketball Goals		1+	Hockey Goals		1+
Electrical Outlets		1+			



Site  
Furnishing



Pollution Control



Recreational  
Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting Low Mast Lighting		1+ 1+
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Drainage	Shall have a 1% maximum slope for positive drainage				
Amenity	Specification				
Surfacing	a) Court finish shall be integral colored concrete with medium broom finish (to prevent slipping) b) Court marking shall be wear resistant c) Court markings shall be a minimum of 2" in width, d) Basketball court markings shall be white e) Volleyball court markings shall be yellow				
Spacing	a) multiple courts, side by side or end to end, shall have a minimum space between courts of 10'  b) there shall be an area of 10' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards				
Color	<b>Black:</b> chain link fencing around multi-purpose courts ( black vinyl coated) <b>Green:</b> surfacing and the background on signage <b>Blue:</b> surfacing and the background on signage <b>White:</b> shall be used for boundary lines and text/graphics on signage				
Dimensions/Acreage	<b>Basketball Court: Full Court</b> <b>Field Dimensions: 84' X 50'</b> <b>Minimum Acreage: .11 acres</b>  <b>Basketball Court: Volleyball Court &amp; Half Court</b> <b>Field Dimensions: 60' X 30'</b> <b>Minimum Acreage: .11 acres</b>				



Aesthetics

### REQUIRED SPECIFICATIONS

Amenity

Standard Layout

### RECOMMENDED SPECIFICATIONS

Specification

Standard Multi-Purpose Court Layout 1

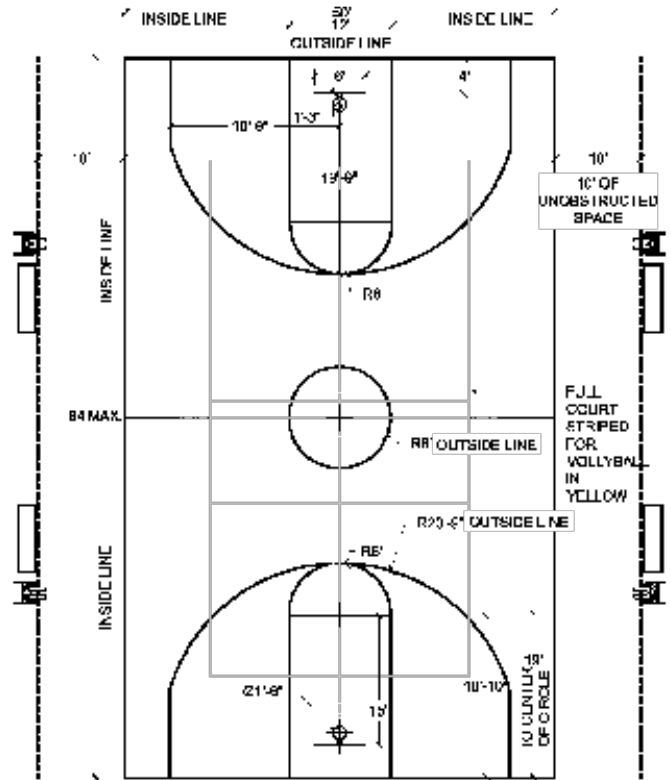
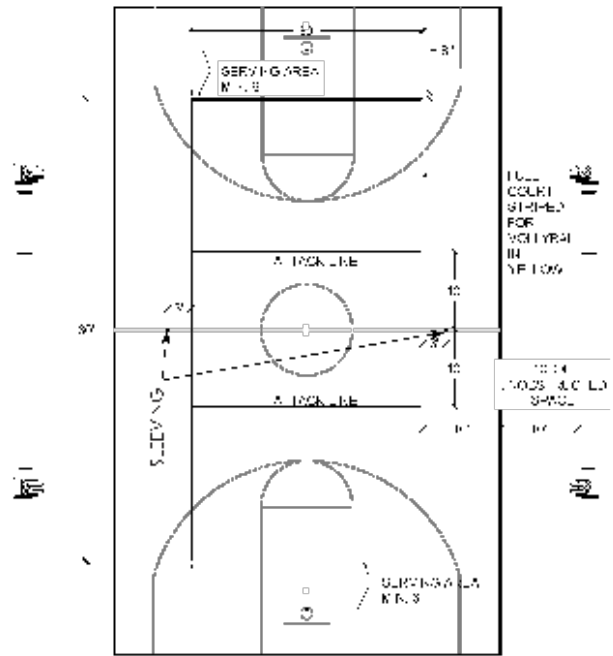


Exhibit 23: Basketball Court - Standard Layout 1 over Volleyball Court

Standard Multi-Purpose Court Layout 2



PROVIDE SIGNAGE

# X.X COURTS: PICKLE-BALL

## OVERVIEW

### Acronym/Abbreviation: PBC

The design, development, preservation and enhancement of all pickle-ball courts in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of pickle-ball courts are to support specific recreational activities as well as to enhance social facilities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is granted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1 a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			Neighborhood Park		1
			Special Use Park		1

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pickle-ball courts must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must receive prior written authorization from the DPARD.		

Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1+	<b>Informational Signs</b>		
<b>Informational Signs</b>			Mobile Applications		1+
Court Numbers		1+	Memorial Markers		1+
			Donor/Naming Rights Signs		1+
			Reservations		1+



Communication/  
Wayfinding

Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2			



Site  
Furnishing

Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Pollution Control

Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			



Recreational  
Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting Low Mast Lighting		1+ 1+
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Drainage	Shall have a 1% maximum slope for positive drainage				
Amenity	Specification				
Surfacing	a) Court finish shall be integral colored concrete with medium broom finish (to prevent slipping) b) Court marking shall be wear resistant c) Court markings shall be a minimum of 2" in width, d) Basketball court markings shall be white e) Volleyball court markings shall be yellow				
Spacing	a) multiple courts, side by side or end to end, shall have a minimum space between courts of 10'  b) there shall be an area of 10' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards				
Color	<b>Black:</b> chain link fencing around multi-purpose courts ( black vinyl coated) <b>Green:</b> surfacing and the background on signage <b>Blue:</b> surfacing and the background on signage <b>White:</b> shall be used for boundary lines and text/graphics on signage				
Dimensions/Acreage					
Standard Layout	<b>Standard Pickle Court Layout 1</b>				

# X.X COURTS: TENNIS

## OVERVIEW

### Acronym/Abbreviation: TC

The design, development, preservation and enhancement of all tennis courts in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of tennis courts are to support a specific recreational activities as well as to enhance social activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is granted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





Developed  
Open Space



Outdoor  
Facilities



Communication/  
Wayfinding



Site  
Furnishing



Pollution Control

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		2+	Community Park Neighborhood Park Special Use Park		2+ 2+ 2+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of tennis courts must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	<b>Informational Signs</b>		
Primary Destination Signs		1+	Mobile Applications		1+
Quaternary Destination Signs		1+	Memorial Markers		1+
<b>Informational Signs</b>		1+	Donor/Naming Rights Signs		1+
Court Numbers		1+	Reservations		1+
Hours of Operation		TBD			
ADA Parking Spaces					
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Bike Rack		1
			Drinking Fountains		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Security Lights		1+	High Mast Lighting		1+
Fencing		PRN	Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Drainage	Shall have a 1% maximum slope for positive drainage				
Amenity	Specification				
Surfacing	a) Court finish shall be integral colored concrete with medium broom finish (to prevent slipping) b) Court marking shall be wear resistant c) Court markings shall be a minimum of 2" in width, d) Court markings shall be white				
Spacing	a) multiple courts, side by side or end to end, shall have a minimum space between courts of 10'  b) there shall be an area of 10' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/ pedestrian routes of travel (hardscape) or light standards				
Color	<b>Black:</b> chain link fencing around multi-purpose courts ( black vinyl coated) <b>Green:</b> surfacing and the background on signage <b>Blue:</b> surfacing and the background on signage <b>White:</b> shall be used for boundary lines and text/graphics on signage				
Dimensions/Acreage	<b>Tennis Court: 78'</b> <b>Field Dimensions: 78' X 36'</b> <b>Minimum Acreage: .064 acres</b>  <b>Tennis Court: Enclosure</b> <b>Field Dimensions: 120' X 60'</b> <b>Minimum Acreage: .165 acres</b>				

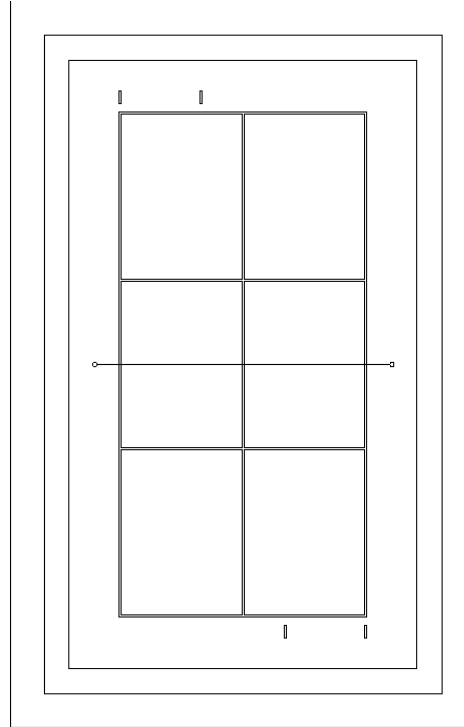


**Amenity**

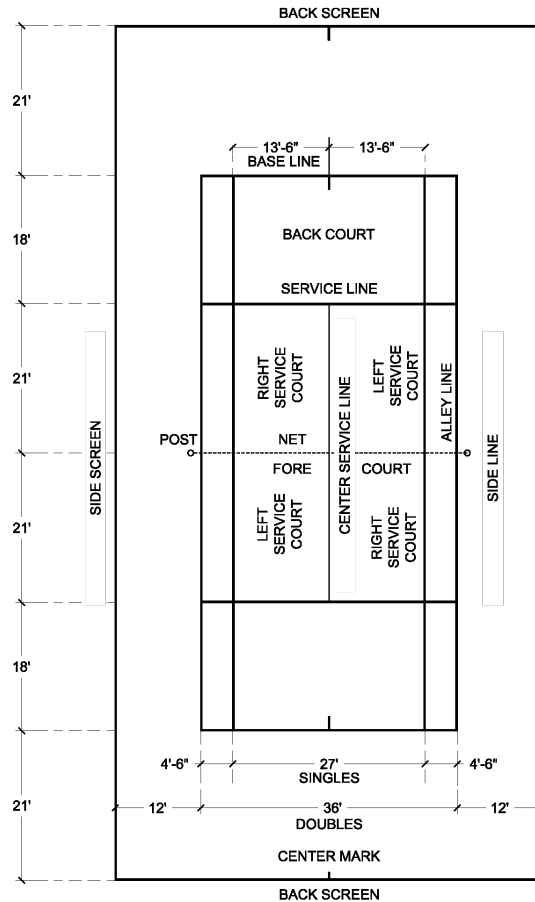
**Standard Layout**

**Specification**

**Standard Pickle Court Layout 1**



**Standard Multi-Purpose Court Layout 2**



# X.X COURTS: VOLLEYBALL

## OVERVIEW

### Acronym/Abbreviation: VC

The design, development, preservation and enhancement of all volleyball courts in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of volleyball courts are to provide a playing surface for support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	
		2+	City Park Community Park Neighborhood Park Special Use Park	1+ 1+ 1+ 1+	
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of volleyball courts must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Primary Destination Signs Quaternary Destination Signs <b>Informational Signs</b> Court Numbers Hours of Operation ADA Parking Spaces		1+ 1+ 1+  1+ 1+ TBD	<b>Informational Signs</b> Mobile Applications Memorial Markers Donor/Naming Rights Signs Reservations		1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Bike Rack Drinking Fountains		1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Communication/  
Wayfinding



Site  
Furnishing



Pollution Control



Recreational Support



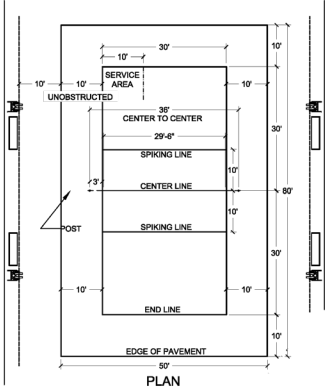
Safety & Security



Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting		1+
Fencing		PRN	Low Mast Lighting		1+
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Drainage	Shall have a 1% maximum slope for positive drainage				



REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
Amenity	Specification
Surfacing	<p>Courts may be concrete, sand or grass</p> <p><b>Sand Courts:</b>            a) sand courts shall use 20-30 mesh silica sand, a depth of 14" to 42" is preferred</p>
Markings	<p><b>Sand Courts:</b>            a) affix court boundary nylon cords to subgrade anchors            b) the 50'x80' sand area shall be contained by a 6" wide rubberized border</p> <p><b>Concrete Courts:</b>            a) court markings shall be wear resistant            b) court markings shall be a minimum of 2" in width, primary court markings shall be white</p> <p><b>Grass Courts:</b>            a) Markings shall be chalked/painted prior to practice/ games.</p> <p>Permanent field markings shall be used on synthetic turf.</p>
Spacing Dimensions/Acreage	<p>a) multiple courts, side by side or end to end, shall have a minimum space between courts of 12'</p> <p>b) there shall be an area of 12' in width around the court's perimeter, 12' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards</p> <p><b>Volleyball Court</b>  <b>Field Dimensions:</b> 60' X 30'  <b>Minimum Acreage:</b> .041 acres</p>
Standard Layout	<p><b>Play Zone</b>  <b>Field Dimensions:</b> 80' X 50'  <b>Minimum Acreage:</b> .091 acres</p> <p><b>Sand Volleyball Court</b>  <b>Field Dimension:</b> 30' X 60'  <b>Minimum Acreage:</b> .2 acres</p> <p><b>Preferred Volleyball Court Orientation</b></p>  <p>The diagram shows a rectangular court layout with the following dimensions and features:      - Total width: 50'      - Total length: 80'      - Unobstructed area: 30' x 30'      - Service area: 10' x 10'      - Center to center: 29'-6"      - Spiking line: 10' from center line      - Center line: 10' from spiking line      - End line: 10' from center line      - Edge of pavement: 10' from end line      - Post: 3' from center line</p>

# X.X IN-LINE HOCKEY RINK

## OVERVIEW

### Acronym/Abbreviation: RHR

The design, development, preservation and enhancement of all in-line hockey rink in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of in-line hockey rinks are to provide a playing surface for support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
		2+	City Park Community Park Neighborhood Park Special Use Park		1+ 1+ 1+ 1+



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of in-line hockey rinks must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs		1+ 1+ 1+	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers Donor/Naming Rights Signs Reservations		1+  1+ 1+ 1+ 1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Bike Rack Drinking Fountains		1 1



Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets Hockey Goals		1+ 1+			



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting Low Mast Lighting		1+ 1+
<b>Amenity</b>			<b>Specification</b>		
Buffer			Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically		
Drainage			Shall have a 1% maximum slope for positive drainage		
<b>Amenity</b>			<b>Specification</b>		
Surfacing			a) Court finish shall be integral colored concrete with medium broom finish (to prevent slipping) b) Court markings shall be wear resistant c) Court markings shall be a minimum of 2" in width		
Markings			Court marking shall be white		
Color			<b>Black:</b> chain link fencing around multi-purpose courts ( black vinyl coated) <b>Green:</b> surfacing and the background on signage <b>Blue:</b> surfacing and the background on signage <b>White:</b> shall be used for boundary lines and text/graphics on signage		
Standard Layout			<b>Preferred In-line Hockey Rink Orientation</b>		

# X.X FIELDS: BASEBALL (ADULT)

## OVERVIEW

### Acronym/Abbreviation: BBFA

The design, development, preservation and enhancement of all Baseball (Adult) fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of adult baseball fields are to provide an enclosure and playing surface for specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility,  
control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Special Use Park		1+ 1+ 1+
			Sports Complex		2+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of adult baseball fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/ enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs		1+ 1+	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers		1+ 1+ 1+ 1+
<b>Informational Signs</b> <b>Field Numbers</b> ADA Parking Spaces		PRN TBD	Donor/Naming Rights Signs Reservations		1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers Players Bench		2 2	Bike Rack Drinking Fountains		1 1



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Scoreboards		1+			
Electrical Outlets		1+			
Backstops		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
High Mast Lighting		8+	Tree Grates		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				
Amenity	Specification				
Markings					
Color					
Dimensions/Acreage					

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

Amenity

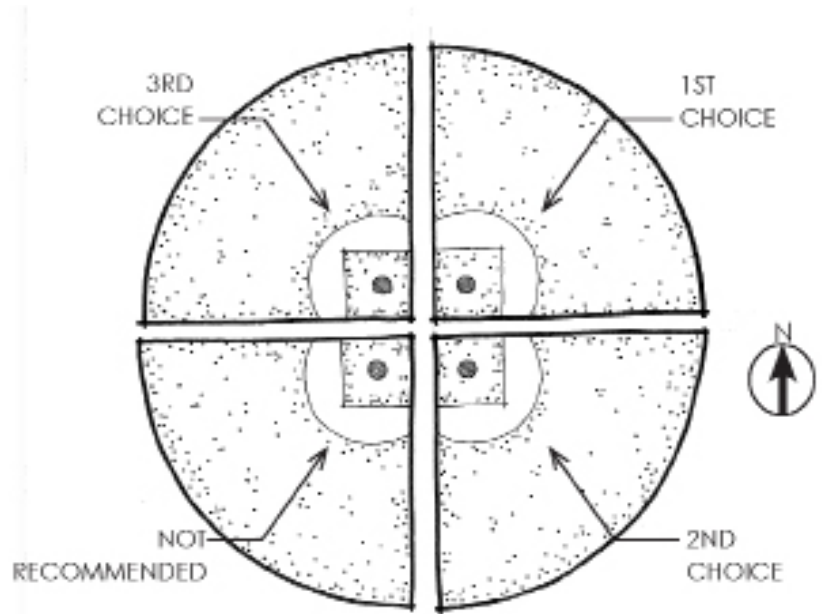
Specification

Standard Layout

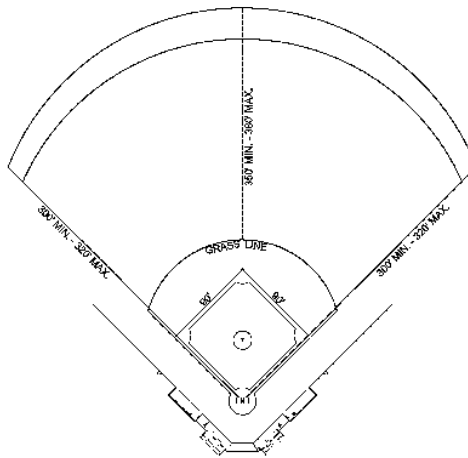
Preferred Baseball Field Orientation



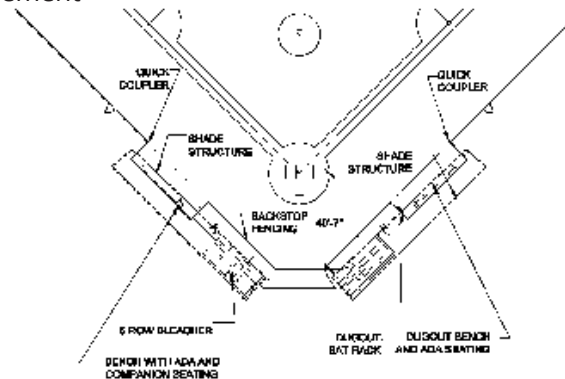
Aesthetics



Standard Baseball Field Layout



Standard Baseball Field Dugout and Spectator Seating Layout Enlargement



# X.X FIELDS: BASEBALL (YOUTH)

## OVERVIEW

### Acronym/Abbreviation: BBFY

The design, development, preservation and enhancement of all Youth Baseball fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of youth baseball fields are to provide an enclosure and playing surface for specific recreational activities for youth.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open Space



Outdoor Facilities



Outdoor  
Facilities



Communication/  
Wayfinding



Site  
Furnishing

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Special Use Park		4+ 4+ 1+
			Sports Complex		2+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of youth baseball fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1+	<b>Informational Signs</b>		
<b>Informational Signs</b>			Mobile Applications		1+
Field Numbers		PRN	Memorial Markers		1+
ADA Parking Spaces		TBD	Donor/Naming Rights Signs		1+
			Reservations		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers		2			
Players Bench		2			





Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Scoreboards		1+			
Electrical Outlets		1+			
Backstops		1+			
Security Lights		1+	Bollards		1+
High Mast Lighting		8+	Tree Grates		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				
Amenity	Specification				
Markings	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.				
Color	<b>Black:</b> chain link fencing around multi-purpose courts ( black vinyl coated) <b>Green:</b> Roofing on dugouts and shade structures <b>Blue:</b> Tensile shades and seamless metal <b>White:</b> shall be used for boundary lines and text/graphics on signage				
Dimensions/Acreage	<b>Little League</b> <b>Left Field: 175'</b> <b>Center Field: 225'</b> <b>Baseline: 60'</b> <b>Minimum Acreage: 3 acres</b>				
Standard Layout					

**REQUIRED SPECIFICATIONS**

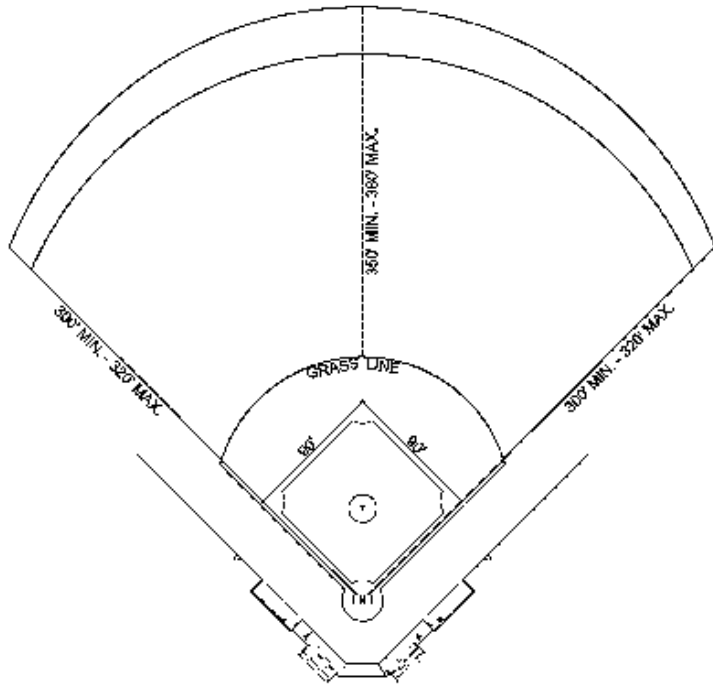
**RECOMMENDED SPECIFICATIONS**

Amenity

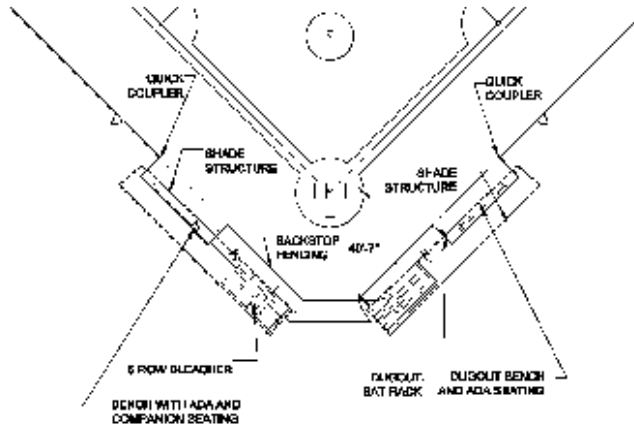
Specification

Standard Layout

Standard Baseball Field Layout



Standard Baseball Field Dugout and Spectator Seating Layout Enlargement



# X.X FIELDS: FOOTBALL

## OVERVIEW

### Acronym/Abbreviation: FBF

The design, development, preservation and enhancement of all football fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of football fields are to provide a playing surface for specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Special Use Park		1+ 1+ 1+

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of football fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1+	<b>Informational Signs</b>		
<b>Informational Signs</b>			Mobile Applications		1+
Field Numbers		PRN	Memorial Markers		1+
ADA Parking Spaces		TBD	Donor/Naming Rights Signs		1+
			Reservations		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers		2	Bike Rack		1
Players Bench		2	Drinking Fountains		1



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Scoreboards		1+			
Electrical Outlets		1+			
Football Goals		1+			
Security Lights		1+	Bollards		1+
Fencing		PRN	Tree Grates		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		
<b>Amenity</b>	<b>Specification</b>				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				
<b>Amenity</b>	<b>Specification</b>				
Markings	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.				
Color	<b>Black:</b> chain link fencing around multi-purpose courts ( black vinyl coated) <b>Green:</b> Roofing on dugouts and shade structures <b>Blue:</b> Tensile shades and seamless metal <b>White:</b> shall be used for boundary lines and text/graphics on signage				
Dimensions/Acreage					
Standard Layout	Preferred Football Field Orientation				

# X.X FIELDS: MULTI-PURPOSE FIELD

## OVERVIEW

### Acronym/Abbreviation: MPF

The design, development, preservation and enhancement of all multi-purpose fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of multi-purpose fields are to provide a playing surface for specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City Park		1+	Neighborhood Park		1+
Community Park		1+	Special use Park		1+



Site  
Furnishing

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of multi-purpose fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers		2 2			



Pollution  
Control

Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Recreational  
Support

Amenity	Reference	Min.	Amenity	Reference	Rec.
Football Goals		1+			
Rugby Goals		1+			
Soccer Goals		1+			
Backstops		1+			



Safety &  
Security

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Security Lights		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+



Landscape



Aesthetics

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically	
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution	
Amenity	Specification	
Markings	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.	
Color	<b>Black:</b> chain link fencing around multi-purpose courts ( black vinyl coated) <b>Green:</b> Roofing on dugouts and shade structures <b>Blue:</b> Tensile shades and seamless metal <b>White:</b> shall be used for boundary lines and text/graphics on signage	
Dimensions/Acreage	Shall be 500' X 300'. This will accommodate an adult sized field and a true rugby field	
Standard Layout		



# X.X FIELDS: RUGBY

## OVERVIEW

### Acronym/Abbreviation: RF

The design, development, preservation and enhancement of all rugby fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of rugby fields are to provide a playing surface for specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Neighborhood Park		1+ 1+ 1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of rugby fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs <b>Informational Signs</b> Field Numbers ADA Parking Spaces		1+ 1+  PRN TBD	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers Donor/Naming Rights Signs Reservations		1+  1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers		2 2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets Rugby Goals		1+ 2+			



Communication/  
Wayfinding



Site  
Furnishing



Pollution Control



Recreational  
Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	High Mast Lighting		1+
Fencing		PRN	Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				
Amenity	Specification				
Markings	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.				
Color	<b>Black:</b> chain link fencing around rugby fields ( black vinyl coated) <b>Green:</b> Roofing on dugouts and shade structures <b>Blue:</b> Tensile shades and seamless metal <b>White:</b> shall be used for boundary lines and text/graphics on signage				
Dimensions/Acreage	Shall be 500' X 300'				
Standard Layout					

# X.X FIELDS: SOCCER (ADULT)

## OVERVIEW

### Acronym/Abbreviation: SFA

The design, development, preservation and enhancement of all Adult Soccer fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of adult soccer fields are to provide a playing surface for specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Special Use Park		1+ 1+ 1+
			Sports Complex		2+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of adult soccer fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary Destination Signs		1+	<b>Informational Signs</b>		
<b>Informational Signs</b>			Mobile Applications		1+
Field Numbers		PRN	Memorial Markers		1+
ADA Parking Spaces		TBD	Donor/Naming Rights Signs		1+
			Reservations		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers		2			
Players		2			



Developed Open Space



Outdoor Facilities



Outdoor Facilities



Communication/Wayfinding



Site Furnishing



Pollution Control



Recreational Support



Safety & Security

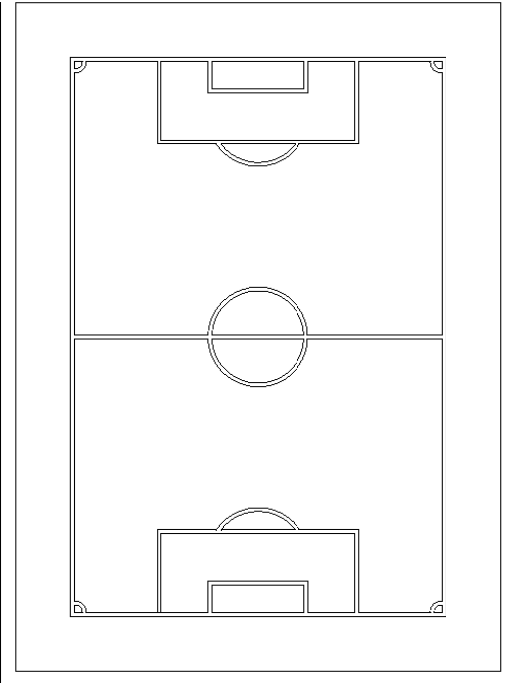


Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Electrical Outlets		1+	Soccer Goals		2+
High Mast Lighting		4+	Mid Mast Lighting		1+
Security Lights		1+	Low Mast Lighting		1+
Fencing		PRN			
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				
Drainage	Fields shall have a 2% max slope for positive drainage				
Grading	Native soil fields that will surface drain shall have a minimum slope of one and one half percent measured from center to side, center of field is the highest point				



Aesthetics

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<b>Amenity</b>	<b>Specification</b>
Marking	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.
Spacing	<p>a) multiple courts, side by side or end to end, shall have a minimum space between courts of 20'</p> <p>b) there shall be an area of 20' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards</p>
Color	<p><b>Black:</b> chain link fencing around soccer fields ( black vinyl coated)</p> <p><b>Green:</b> surfacing and the background on signage</p> <p><b>Blue:</b> surfacing and the background on signage</p> <p><b>White:</b> shall be used for boundary lines and text/graphics on signage</p>
Dimensions/Acreage	<p><b>Adult Soccer Field</b></p> <p><b>Field Dimensions:</b> 225' X 330'</p> <p><b>Minimum Acreage:</b> 1.7 acres</p>
Standard Layout	<p><b>Preferred Soccer Field Orientation</b></p> 

# X.X FIELDS: SOCCER (YOUTH)

## OVERVIEW

### Acronym/Abbreviation: SFA

The design, development, preservation and enhancement of all Youth Soccer fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of adult soccer fields are to provide a playing surface for specific recreational activities for youth.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





Developed Open Space



Outdoor Facilities



Outdoor Facilities



Communication/Wayfinding



Site Furnishing

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Special Use Park		2+ 2+ 1+
			Sports Complex		2+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of youth soccer fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs		1+ 1+	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers		1+ 1+ 1+ 1+ 1+
<b>Informational Signs</b> Field Numbers ADA Parking Spaces		PRN TBD	Donor/Naming Rights Signs Reservations		1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers Players		2 2			



Pollution Control



Recreational Support



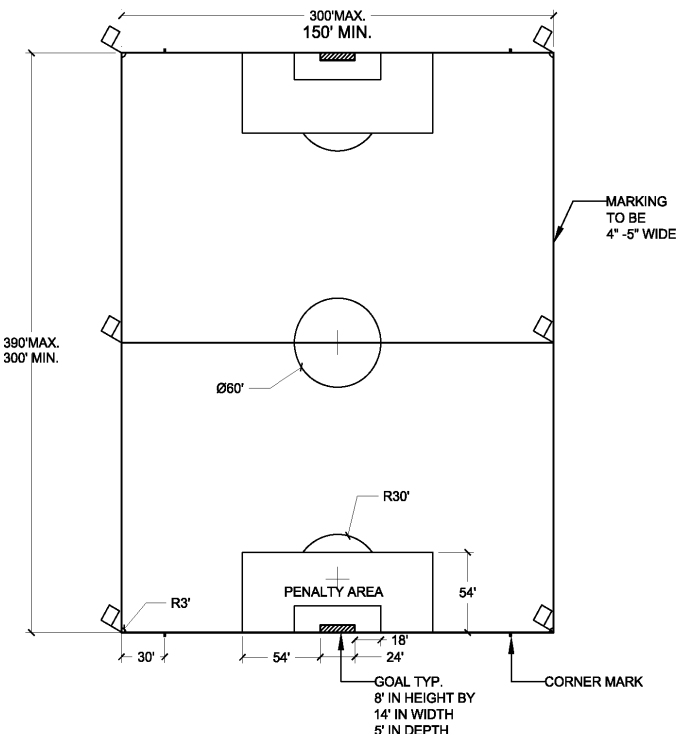
Safety & Security



Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Electrical Outlets		1+	Soccer Goals		2+
High Mast Lighting		4+	Mid Mast Lighting		1+
Security Lights		1+	Low Mast Lighting		1+
Fencing		PRN			
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				
Drainage	Fields shall have a 2% max slope for positive drainage				
Grading	Native soil fields that will surface drain shall have a minimum slope of one and one half percent measured from center to side, center of field is the highest point				



REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
Amenity	Specification
Marking	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.
Spacing	<p>a) multiple courts, side by side or end to end, shall have a minimum space between courts of 20'</p> <p>b) there shall be an area of 20' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards</p>
Color	<p><b>Black:</b> chain link fencing around soccer fields ( black vinyl coated)</p> <p><b>Green:</b> surfacing and the background on signage</p> <p><b>Blue:</b> surfacing and the background on signage</p> <p><b>White:</b> shall be used for boundary lines and text/graphics on signage</p>
Dimensions/Acreage	<p><b>Youth Soccer Field (6 &amp; under)</b></p> <p><b>Field Dimensions:</b></p> <p><b>Minimum Acreage:</b> .12 Acres</p>
Standard Layout	<p><b>Preferred Soccer Field Orientation</b></p>  <p>The diagram illustrates the standard layout of a soccer field. Key dimensions and markings include:</p> <ul style="list-style-type: none"> <li>Field length: 300' MAX. / 150' MIN.</li> <li>Field width: 390' MAX. / 300' MIN.</li> <li>Center circle diameter: Ø60'</li> <li>Penalty area: 54' wide, with a 30' radius (R30').</li> <li>Goal dimensions: 8' IN HEIGHT BY 14' IN WIDTH BY 5' IN DEPTH.</li> <li>Goal placement: 18' from the center line and 24' from the goal line.</li> <li>Corner marks: 30' from the corners.</li> <li>Marking width: 4" - 5" WIDE.</li> </ul> <p>Exhibit 22: Soccer Field - Standard Layout</p>

# X.X FIELDS: SOFTBALL FIELDS (ADULT)

## OVERVIEW

### Acronym/Abbreviation: SBFA

The design, development, preservation and enhancement of all Adult Soft fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of adult soccer fields are to provide a playing surface for specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Special Use Park		2+ 2+ 1+
			Sports Complex		2+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of adult softball fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs <b>Informational Signs</b> Field Numbers ADA Parking Spaces		1+ 1+  PRN TBD	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers Donor/Naming Rights Signs Reservations		1+  1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers Players		2 2			



Developed  
Open Space



Outdoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Site  
Furnishing



Pollution Control



Recreational Support



Safety & Security



Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Electrical Outlets		1+			
Scoreboards		1+			
High Mast Lighting		6+	Mid Mast Lighting		1+
Security Lights		1+	Low Mast Lighting		1+
Fencing		PRN			
Amenity	Specification				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				



Aesthetics

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<b>Amenity</b>	<b>Specification</b>
Marking	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.
Spacing	<p>a) multiple courts, side by side or end to end, shall have a minimum space between courts of 20'</p> <p>b) there shall be an area of 20' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards</p>
Color	<p><b>Black:</b> chain link fencing around softball fields ( black vinyl coated)</p> <p><b>Green:</b> surfacing and the background on signage</p> <p><b>Blue:</b> surfacing and the background on signage</p> <p><b>White:</b> shall be used for boundary lines and text/graphics on signage</p>
Dimensions/Acreage	<p><b>Adult Slow Pitch</b>  <b>Left Field:</b> 265'  <b>Center Field:</b> 315'  <b>Baseline:</b> 65'  <b>Minimum Acreage:</b> 2 Acres</p> <p><b>College</b>  <b>Left Field:</b> 190'  <b>Center Field:</b> 220'  <b>Baseline:</b> 60'  <b>Minimum Acreage:</b> 2 Acres</p> <p><b>High School</b>  <b>Left Field:</b> 200'  <b>Center Field:</b> 225'  <b>Baseline:</b> 60'  <b>Minimum Acreage:</b> 2 Acres</p> <p><b>Adult</b>  <b>Left Field:</b> 200'  <b>Center Field:</b> 250'  <b>Baseline:</b> 60'  <b>Minimum Acreage:</b> 2 Acres</p>

**REQUIRED SPECIFICATIONS**

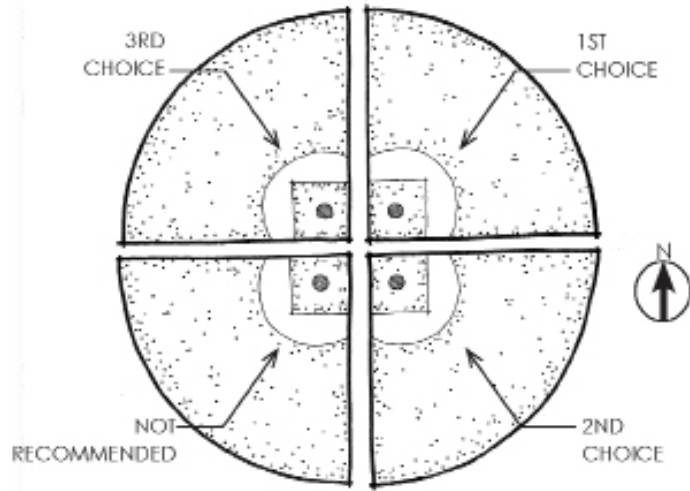
**RECOMMENDED SPECIFICATIONS**

Amenity

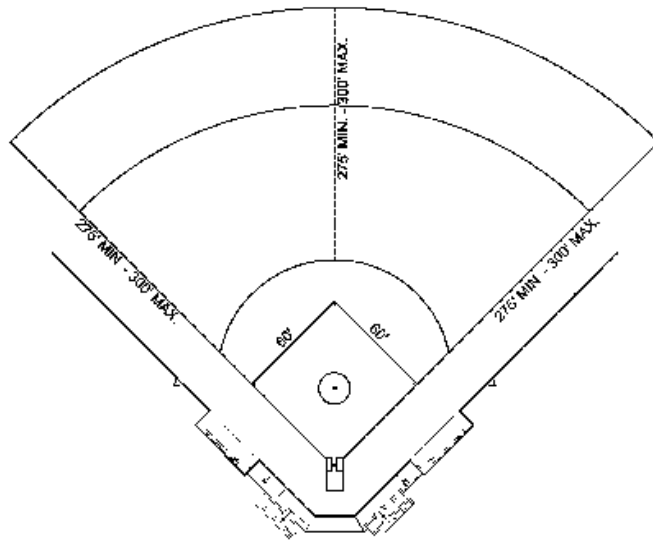
Specification

Standard Layout

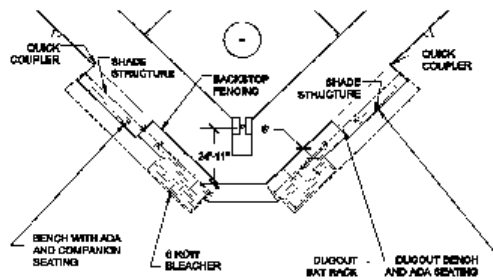
Preferred Softball Field Orientation



Layout



Standard Softball Field Layout





# X.X FIELDS: SOFTBALL FIELDS (YOUTH)

## OVERVIEW

### Acronym/Abbreviation: SBFY

The design, development, preservation and enhancement of all Adult Soft fields in the DPARD system shall comply with the following required and/or recommended specifications.

## OVERVIEW

### Acronym/Abbreviation: SBFY

The design, development, preservation and enhancement of all Adult Soft fields in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of adult soccer fields are to provide a playing surface for specific recreational activities youth.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

A) Allow diverse activities to occur simultaneously

B) facilities administrative visibility/control of facilities

C) complementary spaces form Functional areas that support one another ( cohesive site design)

1a) grouped activities maximize accessibility, control

2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Community Park Special Use Park		4+ 4+ 1+
			Sports Complex		2+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of youth softball fields must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs <b>Informational Signs</b> Field Numbers ADA Parking Spaces		1+ 1+  PRN TBD	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers Donor/Naming Rights Signs Reservations		1+  1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bleachers Players		2 2			
Amenity	Reference	Min.	Amenity	Reference	Rec.



Developed  
Open Space



Outdoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Site  
Furnishing



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Receptacles		2			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Electrical Outlets		1+			
Scoreboards		1+			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
High Mast Lighting		6+	Mid Mast Lighting		1+
Security Lights		1+	Low Mast Lighting		1+
Fencing		PRN			
<b>Amenity</b>	<b>Specification</b>				
Buffer	Provide a separation from pedestrian/vehicular circulation routes with a low planed buffer. May include trees however no visual obstructions between 36" and 84" vertically				
Trees	Provide shade trees along the perimeters of the field, this will enhance aesthetics and mitigate light/noise pollution				
<b>Amenity</b>	<b>Specification</b>				
Marking	Markings shall be chalked/painted prior to practice/games. Permanent field markings shall be used on synthetic turf.				
Spacing	<p>a) multiple courts, side by side or end to end, shall have a minimum space between courts of 20'</p> <p>b) there shall be an area of 20' in width around the court's perimeter, 10' minimum without trees/shrubs (measured from maximum potential drip line), berms, planters, vehicular/pedestrian routes of travel (hardscape) or light standards</p>				
Color	<p><b>Black:</b> chain link fencing around softball fields ( black vinyl coated)</p> <p><b>Green:</b> surfacing and the background on signage</p> <p><b>Blue:</b> surfacing and the background on signage</p> <p><b>White:</b> shall be used for boundary lines and text/graphics on signage</p>				
Dimensions/Acreage	<p><b>Youth 10 &amp; Under</b></p> <p><b>Left Field:</b> 150'</p> <p><b>Center Field:</b> 175'</p> <p><b>Baseline:</b> 55'</p> <p><b>Minimum Acreage:</b> 2 Acres</p>				

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

Amenity

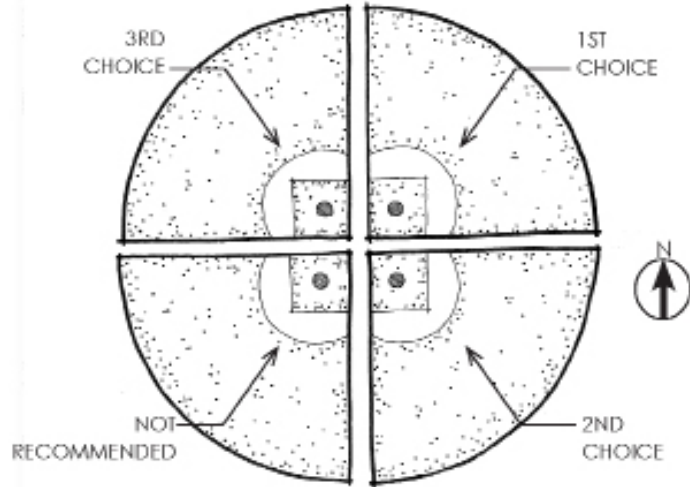
Specification

Standard Layout

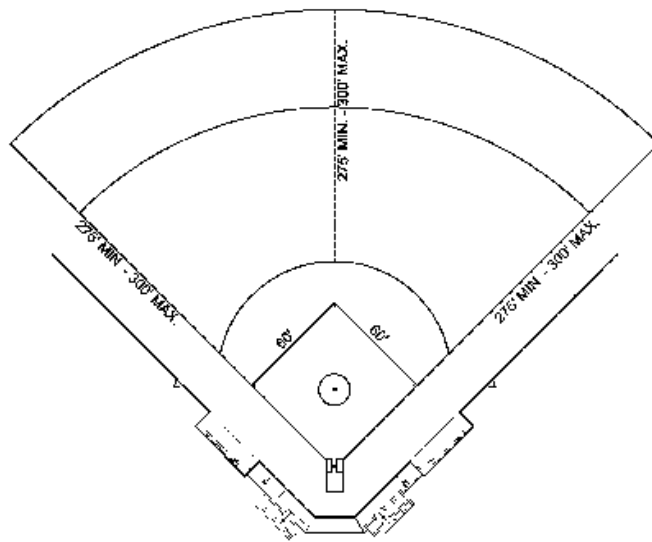
Preferred Softball Field Orientation



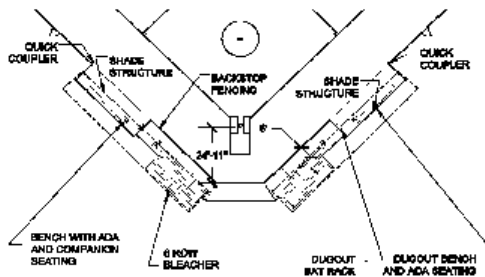
Aesthetics



Layout



Standard Softball Field Layout



# X.X PARKING LOTS

## OVERVIEW

### Acronym/Abbreviation: PL

The design, development, preservation and enhancement of all pavilions in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of parking lots are to provide an enclosure and surface for specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclists:

Serve patrons within the immediate neighborhoods however, access is anted to any residents within the city.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

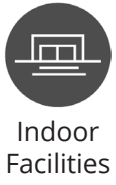
### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min. (stalls)	Amenity	Reference	Rec. (stalls)
City Park		100+	Neighborhood Park		10+
Community Park		40+			
Preserve		20+			
Special Use Park		20+			
Community Center		1			
Recreation Center		1			
Senior Center		1			
Gymnastic Center		1			
Indoor Ice Rink		1			
Indoor Sports Complex		1			
Nature Center		1			
Natatorium		1			
Water Park		1			
Swimmings Pools		1	Amphitheater		1
Sprayground		1	Community Gardens		1
Sports Complex		1+	Disc Golf Course		1
			Driving Range		1
			Baseball Fields		1
			Football Fields		1
			Soccer Fields		1
			Softball Fields		1
			Bike Park		1
			Dog Park		1
			Skate Park		1

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of parking lots must receive prior written authorization from the DPARD.	The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Specifications
<b>Access Management</b>	All park development shall provide access that complies with Access Management principals of location, spacing and sharing of curb cuts. All park development shall provide adequate stacking distance for all indoor/outdoor facilities entrances.
<b>Ingress/Egress</b>	The entrance to the parking area should be considered an entrance to the park itself, with flora and wayfinding included.
<b>Internal Pedestrian Circulation</b>	Parking lots with 100 spaces or more shall provide adequate pedestrian circulation within the parking lot. Pedestrian walkways shall be directly linked to indoor/outdoor facility entrances. ( a drop off / pickup zone is recommended)
<b>Internal Vehicular Circulation</b>	Internal circulation shall be well defined by use of end caps and landscaped areas.
<b>Scale</b>	Parking lots with 100 spaces or more shall be divided into separate areas and divided by landscaped areas or walkways at least 10 feet in width, or by a building, group of buildings or outdoor recreational facility.
<b>Permeability</b>	Permeable paving is required of those parking spaces that exceed th number of parking spaces required.

Amenity	Reference	Min.	Amenity	Reference	Rec.
Quaternary Destination Signs		1+	Primary Destination Signs		1+
<b>Informational Signs</b>			<b>Informational Signs</b>		
Hours of Operation		1+	Donor/Naming Rights Signs		1+
Reserved/Numbered Spaces		PRN	Reservations		1+
ADA Parking Spaces		PRN			

Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Circulation



Communication/  
Wayfinding



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Scoreboards		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Bollards		1+
			Tree Grates		1+
			High Mast Lighting		1+
			Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Specifications				
Landscape (General)	<p>A minimum of 7% of the total parking area shall be landscaped.</p> <p>A minimum of 15% of the required parking shall be covered by tree canopy.</p> <p>The landscaped areas shall be evenly distributed throughout parking area and planted with trees, shrubs and/or ground cover.</p>				
Screening	<p>Parking Lots shall be screened along the perimeter with one large tree for every 40 linear feet at a minimum. Trees may be planted in turf or planting bed. If planting bed is used, it must be a minimum of 10' wide.</p> <p><b>Note:</b> Plant an appropriate amount of trees to screen views and mitigate noise pollution between adjacent spaces. Choose carefully between deciduous and evergreen so that foliage will screen at the appropriate times of year. In the area surrounding the parking lot, plant trees where a minimum of 60% of the total area is in the sun at any one time for proper turf growth.</p>				
Turf	<p>(Required) must comply with guidelines</p> <p><b>Note:</b> A landscaped open space, at least 5 feet wide and a depth equal to the adjacent parking space shall be provided so that there are no more than 10 parking spaces in a continuous row. At least one tree shall be planted and maintained in each open space. Adequate room shall be provided for maintenance to be performed safely, out of the vehicular /pedestrian conflict zone.</p>				
Amenity	Specifications				
Color	<p><b>Blue:</b> ADA markings  <b>White:</b> ADA marking, Parking Lot markings  <b>Red:</b> Parking Lot Markings  <b>Yellow:</b> Parking Lot Markings</p>				
Trees	(Required) must comply with guidelines				



# X.X PAVILION

## OVERVIEW

### Acronym/Abbreviation: PVL

The design, development, preservation and enhancement of all pavilions in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of pavilions are to provide an enclosure and surface for specific recreational activities.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City Park		1	City Park		2+
Community Park		1	Community Park		2+
Neighborhood Park		1	Linear Park		1+
Special Use Park		1	Preserve		1+
			Pocket Park		
			Special Use Park		2+
Plaza		1	Swimming Pool		1
			Sprayground		1
			Community Garden		1
			Disc Golf Course		1
			Driving Range		1
			Plaza		1
			Sports Complex		1
			Bike Park		1
			Dog Park		1
			Skate Park		1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pavilions must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Tertiary Destination Signs		1	<b>Informational Signs</b>		
Quaternary Destination Signs		1	Outdoor Bulletin Signs		1+
<b>Informational Signs</b>		PRN	Mobile Applications		1+
Shelter Numbers			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
			Reservations		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Picnic Tables		2	Drinking Fountains		1
			Picnic Tables		4+



Misc.

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2	Receptacles		4+
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Electrical Outlets		1+			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Security Lights		1+	Mid Mast Lighting		1+
			Low Mast Lighting		1+
			Canopy Lighting		1+
<b>Amenity</b>	<b>Specifications</b>				
Color					
Construction	All pavilions shall be on a concrete pad with a minimum thickness of 6"				
<b>Amenity</b>	<b>Specifications</b>				
Warranty	A one-year minimum warranty is required.				
Life Cycle Expectations	Pavilions are anticipated to require replacement after 30 years of normal and ordinary usage.				
Installation Notes	<p>All pavilions shall be placed on decomposed granite or on a reinforced concrete pad. All pavilions shall be centered on the pad with the length of the pavilion parallel to the length of the pad.</p> <p>All pavilions shall be installed in accordance with manufacturer's recommendations.</p> <p>All fasteners shall be stainless steel.</p>				

# X.X PICNIC AREA

## OVERVIEW

### Acronym/Abbreviation: PA

The design, development, preservation and enhancement of all picnic areas in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of picnic areas are to identify specific areas intended to support specific recreational activities. Although all residents may use this facility, the typical users include pre-teens through adults.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City Park		1	City Park		2+
Community Park		1	Community Park		2+
Neighborhood Park		1	Linear Park		1+
Special Use Park		1	Preserve		1+
			Pocket Park		
			Special Use Park		2+

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of picnic tables must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		



Amenity	Reference	Min.	Amenity	Reference	Rec.
Picnic Tables		2			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2	Receptacles		4+



Amenity	Reference	Min.	Amenity	Reference	Rec.
			Security Lights		1+



Amenity	Specifications
Turf	(required) must comply with guidelines

# X.X PLAYGROUNDS

## OVERVIEW

### Acronym/Abbreviation: PA

The design, development, preservation and enhancement of all playgrounds in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of playgrounds are to provide a surface and equipment for age specific recreational activities. Although all residents may use this facility, the typical users include children 2-5 and 5-12. A playground is an area designed for children to play freely. Playgrounds shall meet the needs of children of different ages and abilities.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City Park		1	City Park		2+
Community Park		1	Community Park		2+
Neighborhood Park		1	Linear Park		1+
Special Use Park		1	Preserve		1+
			Pocket Park		
			Special Use Park		2+
Sports Complex		1			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of playgrounds must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Quaternary Destination Signs		1	Primary Destination Signs		1+
			<b>Informational Signs</b>		
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Picnic Tables		2	Drinking Fountains		1



Pollution Control



Safety & Security



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
Security Lights		1+	Mid Mast Lighting		1+
Fencing		PRN	Low Mast Lighting		1+
			Canopy Lighting		1+
<b>Amenity</b>	<b>Specifications</b>				
Color	<b>Black:</b> Fencing around playgrounds, Structural elements of playground <b>Blue:</b> Surfacing <b>Green:</b> Surfacing <b>Orange</b> Surfacing <b>Yellow:</b> Surfacing <b>Purple:</b> Surfacing <b>Red:</b> Surfacing				



# X.X PLAYSCAPES

## OVERVIEW

### Acronym/Abbreviation: PS

The design, development, preservation and enhancement of all playscapes in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of playscapes are to identify specific natural areas intended to support specific recreational activities. Although all residents may use this facility, the typical users include pre-teens through senior adults.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
City Park		1	Pocket Park		1
Community Park		1	Special Use Park		1
Linear Park		1			
Preserve		1			
Neighborhood Park		1			



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of playscapes must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		1	Picnic Tables		1
			Drinking Fountains		1



Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+	Mid Mast Lighting		1+
Fencing		PRN	Low Mast Lighting		1+
			Canopy Lighting		1+

Amenity	Specifications



Landscape



Aesthetics

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
See Chapter xx for design standards regarding landscaping for playscapes	
Amenity	Specifications
Color	<b>Black:</b> Fencing around playgrounds, Structural elements of playground <b>Blue:</b> Surfacing <b>Green:</b> Surfacing <b>Orange</b> Surfacing <b>Yellow:</b> Surfacing <b>Purple:</b> Surfacing <b>Red:</b> Surfacing

# X.X PLAZA

## OVERVIEW

### Acronym/Abbreviation: PLZA

The design, development, preservation and enhancement of all plazas in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of plazas are to identify specific areas and to provide a surface that support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of plazas must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Restrooms		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Pavilion	1				
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		1+	Picnic Tables		1+
Bike Racks		1+			
Drinking Fountains		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlet		1+			



Indoor Facilities



Outdoor Facilities



Site Furnishings



Pollution Control



Recreational support

# X.X PUTTING GREEN

## OVERVIEW

### Acronym/Abbreviation: PUG

The design, development, preservation and enhancement of all putting greens in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of putting greens are to provide an enclosure and surface to support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1
			Community Park		1
			Neighborhood Park		1
			Special Use Park		1



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of putting greens must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lot		1



Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary		1+	<b>Informational Signs</b>		
Destination Signs			Mobile Applications		1+
<b>Informational Signs</b>			Memorial Markers		1+
Hole Numbers		PRN	Donor/Naming Rights Signs		1+
ADA Parking Spaces		TBD	Reservations		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Security Lights		1+	Mid Mast Lighting		1+
Fencing		PRN	Low Mast Lighting		1+
Amenity	Specification				
	See Chapter xx for design standards regarding landscaping for putting greens.				
Amenity	Specification				
Color	<b>Black:</b> Site furnishings and facilities <b>Green:</b> background on signage <b>White:</b> text/graphics on signage				



# X.X SHADE STRUCTURES

## OVERVIEW

### Acronym/Abbreviation: SS

The design, development, preservation and enhancement of all shade structures in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of shade structures are to provide enclosure to support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use Park		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of shade structures must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Tertiary Destination Signs		1+	<b>Informational Signs</b>		
Quaternary Destination Signs		1+	Mobile Applications		1+
<b>Informational Signs</b>		PRN	Memorial Markers		1+
Shelter Numbers			Donor/Naming Rights Signs		1+
			Reservations		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Specification				
Color	<b>Black:</b> Site furnishings and facilities <b>Green:</b> Roofing on shade structure <b>Blue:</b> Roofing on shade structure, Tensile shades and seamless metal				



Amenity	Specifications
Misc.	<p data-bbox="261 142 553 174">Warranty</p> <p data-bbox="613 142 1523 174">A one-year minimum warranty is required.</p> <p data-bbox="261 205 553 237">Life Cycle Expectations</p> <p data-bbox="613 205 1523 268">Shade Structures are anticipated to require replacement after 30 years of normal and ordinary usage.</p> <p data-bbox="261 300 553 331">Installation Notes</p> <p data-bbox="613 321 1523 415">All shade structures shall be placed on decomposed granite or on a reinforced concrete pad. All pavilions shall be centered on the pad with the length of the pavilion parallel to the length of the pad.</p> <p data-bbox="613 447 1523 510">All shade structures shall be installed in accordance with manufacturer's recommendations.</p> <p data-bbox="613 541 1523 573">All fasteners shall be stainless steel.</p>

# X.X SPORTS COMPLEX

## OVERVIEW

### Acronym/Abbreviation: SPCO

The design, development, preservation and enhancement of all sports complexes in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of sports complexes are to provide a grand enclosure with multiple sports facilities to support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a sports complex must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Concessions Restrooms		1 1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lots Pavilions Playground		1 1+ 1+	Baseball Fields (Adult) Baseball Fields (Youth) Soccer Fields (Adult) Soccer Fields (Youth) Softball Fields (Adult) Softball Fields (Youth)		2+ 2+ 2+ 2+ 2+ 2+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps Quaternary Destination Signs <b>Informational Signs</b> Hours of Operation ADA Parking Spaces		1+ 1+  1+ TBD	Primary Destination Signs <b>Informational Signs</b> Mobile Applications Memorial Markers Donor/Naming Rights Signs		1+  1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches Bike Racks Bleachers Drinking Fountains Flag Poles		2 1 4+ 1 1	Bike Stations		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishing



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+	Soccer Goals		2
High Mast Lighting		16+	Bollards		1+
Security Lights		1+	Tree Grates		1+
Fencing		PRN	Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Specification				
See Chapter xx for design standards regarding landscaping for sports complexes					
Amenity	Specification				
Color	<b>Black:</b> Chain link fencing <b>Green:</b> Tensile Shades and seamless metal roofing on shade structures <b>Blue:</b> Tensile Shades and seamless metal roofing on shade structures <b>White:</b> text/graphics on signage and boundary lines				

# X.X BIKE PARK

## OVERVIEW

### Acronym/Abbreviation: BP

The design, development, preservation and enhancement of all bike parks in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of bike parks is to provide a surface to support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Linear Park		1+
			Preserve		1+
			Special Use Park		1+

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a bike parks must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Restrooms		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lots		1			
Pavilions		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary		1+	<b>Informational Signs</b>		
Destination Signs			Mobile Applications		1+
<b>Informational Signs</b>			Memorial Markers		1+
Hours of Operation		1+	Donor/Naming Rights Signs		1+
ADA Parking Spaces		TBD			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Picnic Tables		2+
Bike Racks		2			
Bike Stations		1			
Bleachers		1			
Drinking Fountains		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishing



Pollution Control





Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+	Soccer Goals		2
Amenity	Reference	Min.	Amenity	Reference	Rec.
High Mast Lighting		1+	Bollards		1+
Security Lights		1+	Tree Grates		1+
Fencing		PRN	Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Service		200 amp			
Amenity	Specification				
Irrigation		1			
Amenity	Specification				
Color	<b>Black:</b> Chain link fencing <b>Green:</b> Tensile Shades and seamless metal roofing on shade structures <b>Blue:</b> Tensile Shades and seamless metal roofing on shade structures <b>White:</b> text/graphics on signage				

# X.X DOG PARK

## OVERVIEW

### Acronym/Abbreviation: DP

The design, development, preservation and enhancement of all dog parks in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of a dog park is to provide an enclosure and surface to support specific recreational activities.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Linear Park		1+
			Nature Park		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use Park		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a dog park must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Restrooms		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Parking Lots		1
			Pavilions		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary		1+	<b>Informational Signs</b>		
Destination Signs			Mobile Applications		1+
<b>Informational Signs</b>			Memorial Markers		1+
Hours of Operation		1+	Donor/Naming Rights Signs		1+
ADA Parking Spaces		TBD			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+			





REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches Drinking Fountains		2 1	Picnic Tables		2+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles Dog Waste Stations		2 1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
High Mast Lighting Security Lights Fencing		1+ 1+ PRN	Bollards Tree Grates Mid Mast Lighting Low Mast Lighting		1+ 1+ 1+ 1+
Amenity	Specification				
Irrigation Grading		1 <2%			
Amenity	Specification				
Color	<b>Black:</b> Chain link fencing <b>Green:</b> Tensile Shades and seamless metal roofing on shade structures <b>Blue:</b> Tensile Shades and seamless metal roofing on shade structures <b>White:</b> text/graphics on signage				

# X.X SKATE PARK

## OVERVIEW

### Acronym/Abbreviation: SP

The design, development, preservation and enhancement of all bike parks in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of skate park is to provide an enclosure and surface to support specific recreational activities.

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Linear Park		1+
			Preserve		1+
			Special Use Park		1+

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of skate parks must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Restrooms		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Parking Lots		1			
Pavilions		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Quaternary		1+	<b>Informational Signs</b>		
Destination Signs			Mobile Applications		1+
<b>Informational Signs</b>			Memorial Markers		1+
Hours of Operation		1+	Donor/Naming Rights Signs		1+
ADA Parking Spaces		TBD			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches		2	Picnic Tables		2+
Bike Racks		2			
Bleachers		1			
Drinking Fountains		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishing



Pollution Control



Recreational Support



Safety & Security



Technology & Utilities



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Outlets		1+	Soccer Goals		2
Amenity	Reference	Min.	Amenity	Reference	Rec.
High Mast Lighting		1+	Bollards		1+
Security Lights		1+	Tree Grates		1+
Fencing		PRN	Mid Mast Lighting		1+
			Low Mast Lighting		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Service		200 amp			
Amenity	Specification				
Irrigation		1			
Amenity	Specification				
Color	<b>Black:</b> Chain link fencing <b>Green:</b> Tensile Shades and seamless metal roofing on shade structures <b>Blue:</b> Tensile Shades and seamless metal roofing on shade structures <b>White:</b> text/graphics on signage				

# X.X WILD FLOWER PRAIRIE

## OVERVIEW

### Acronym/Abbreviation: WFP

The design, development, preservation and enhancement of all wild flower prairie in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of a wild flower prairie is for conservation and preservation supporting native flora and fauna.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Linear Park		1+
			Preserve		1+
			Special Use Park		1+



Developed  
Open  
Space



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of wild flower prairies must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
Informational Signs			Informational Signs		
Hours of Operation		1+	Mobile Applications		1+
			Interpretive Signs		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Benches		2
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+			
Fencing		PRN			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Electrical Service		200 amp			



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishing



Safety &  
Security



Technology &  
Utilities

# X.X BOTANICAL GARDEN

## OVERVIEW

### Acronym/Abbreviation: BOTG

The design, development, preservation and enhancement of all botanical gardens in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of botanical gardens are education, entertainment, and beautification.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Linear Park		1+
			Preserve		1+
			Special Use Park		1+



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of outdoor facilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of wild flower prairies must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Directional Signs/maps		1+	Primary Destination Signs		1+
<b>Informational Signs</b>			<b>Informational Signs</b>		
Hours of Operation		1+	Mobile Applications		1+
			Interpretive Signs		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Public Art		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Fencing		PRN			



Communication/  
Wayfinding



Culture & Identity



Safety &  
Security

# X.X LAKES/PONDS/STREAMS

## OVERVIEW

### Acronym/Abbreviation: LPS

The design, development, preservation and enhancement of all lakes, ponds and streams in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of lakes/ponds/streams are education, entertainment, recreation and beautification.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This outdoor facility shall be located at each of the following locations in the quantities required.			This outdoor facility shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Special Use Park		1+



Developed  
Open  
Space

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# Section 4: CIRCULATION

This section outlines the required and recommended specifications for circulation within the City of Denton. The following are the definition of the items that can be found in the following pages. Circulation facilities are planned, designed and built to serve cultural, social, educational active/passive recreational and mobility needs.

## MULTI-USE TRAILS

The primary function of a multi-use trail is to connect major destinations and a facility that is designated for the use of pedestrian, bicycles, or other non motorized users.

## MOUNTAIN BIKE TRAILS

The primary function of a mountain bike trails are the active recreation and the enhancement of connections of major destinations to natural areas.

## EQUESTRIAN TRAILS

The primary function of equestrian trails is for the safe, separated use of equestrian riders.

## PADDLING TRAILS

[FUNCTION HERE]

## BRIDGES

[FUNCTION HERE]

## PEDESTRIAN ENTRANCE AT CORNERS

[FUNCTION HERE]

## PEDESTRIAN ENTRANCE MID BLOCK

[FUNCTION HERE]

## VEHICLE ENTRANCE

[FUNCTION HERE]

## LEADWALKS

[FUNCTION HERE]

## MEDIANS

[FUNCTION HERE]

**R.O.W**

**MEDIANS**

[FUNCTION HERE]

[FUNCTION HERE]

# X.X MULTI-USE TRAILS

## OVERVIEW

### Acronym/Abbreviation: MUT

The design, development, preservation and enhancement of all multi use trails in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of a multi-use trail is to connect major destinations and a facility that is designated for the use of pedestrian, bicycles, or other non motorized users.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities Act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park		1+
			Community Park		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Special Use Park		1+
			Cemeteries		1+

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classifications of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of multi-use trails must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Restrooms		1+



			Amphitheater		1+
			Playscape		1+
			Parking		1+
			Pavilions		1+
			Picnic Area		1+
			Shade Structures		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
Primary Destination Signs		1+	Secondary Trail Markers		1+
			Tertiary Trail Markers		1+
			<b>Informational Signs</b>		1+
			Outdoor Bulletin Signs		
			Mobile Applications		1+
			Interpretive Signs		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
			Public Art		1+
			Memorials		1+
			Historical Marker		1+





Site Furnishings



Pollution Control



Recreational Support



Safety & Security



Landscape

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches Bike Racks Bike Stations		1+ 1+ 1+	Drinking Fountains Picnic Tables		1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles Dog Waste Station		1+ 1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Outdoor Exercise Equipment		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights Trail Lights		1 1	Bollards Tree Grates Mid Mast Lighting Low Mast Lighting Security Cameras		1 1 1 1 1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Mowstrips		tbd			



REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
Design Requirements	<p>The AASHTO guidelines are viewed as the national standard for multi-use trail standards</p> <p><b>Trail Width:</b> 10' Minimum</p>	
Wayfinding on Trails	<p><b>Red:</b> Background for stop signs, do-not-enter messages, and parking prohibition signs. Red is also used for the prohibitory symbol (circular outline and diagonal bar).</p> <p><b>Black:</b> Background color on one-way signs, and the message on white, yellow, or orange signs.</p> <p><b>White:</b> Background color for regulatory signs (except stop signs) where white is used for the message. White is the message color on blue, brown, and green signs, as well as stop signs.</p> <p><b>Orange:</b> Background color for construction and maintenance signs.</p> <p><b>Yellow:</b> Background for warning signs (except where orange is specified) and school signs.</p> <p><b>Fluorescent Yellow Green:</b> Background for pedestrian, bicycle, and school warning signs.</p> <p><b>Blue:</b> Background for services guidance.</p> <p><b>Green:</b> Background color for directional guidance and permitted movements.</p> <p><b>Brown:</b> Background color for recreational and cultural interest guidance.</p> <p><b>Viewing Distance:</b> Between 20 -150 Feet</p> <p><b>Text Height:</b> Between 3 and 6 inches.</p>	

## REQUIRED SPECIFICATIONS

## RECOMMENDED SPECIFICATIONS

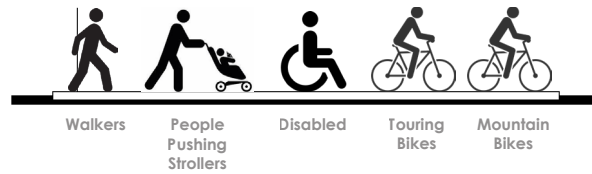
MISC

Amenity

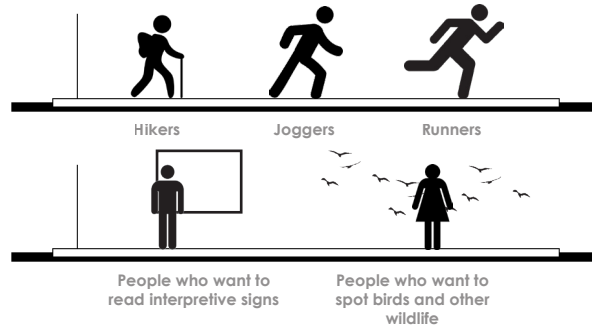
Specification

Users

Primary Users



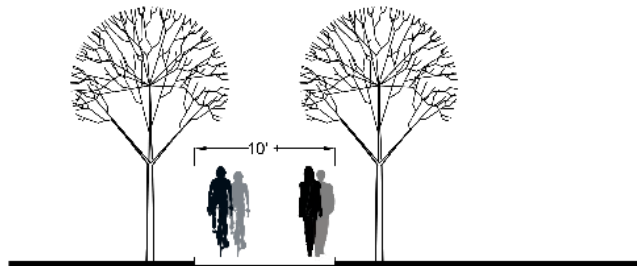
Secondary Users



Tread Width

Tread width refers to the usable portion of a trails surface. This does not include decorative edging that is not intended to be used for walking surface. This has a direct relationship to aesthetics, function and safety for the user. The following guidelines must be followed:

**Light & Heavy Use / 2-Way Trails:** 10'



Tread Width for Multi-Use Trails

Passing Space

Horizontal Clearance (Clearing Width)

Any multi-use trail located in a high traffic area may require passing spaces at regular intervals for the comfort, convenience and safety of it's users.

**Dimensions:** Width 15' Recommended  
Length 10' Minimum (required)

**Frequency:** Only in high traffic areas if the need arises

## REQUIRED SPECIFICATIONS

## RECOMMENDED SPECIFICATIONS

### Amenity

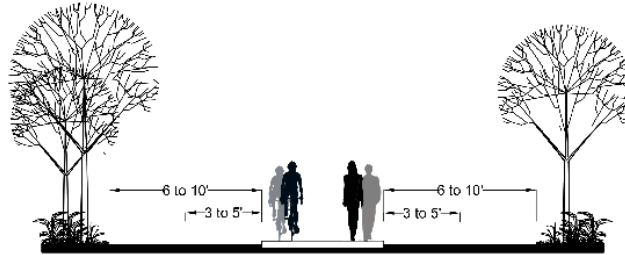
### Specification

MISC

Horizontal Clearance  
(Clearing Width)

Horizontal clearance or clearing width, refers to the development and maintenance within the area adjacent to either side of a trail. This has a direct relationship to aesthetics, function and safety for the user. The following guidelines must be followed:

Heavy Use / 2-Way Trails: 3-5' clearing each side (minimum)  
6-10' clearing each side (preferred)



Clearing Width For Multi Use Trails

Vertical Clearance  
(Clearing height)

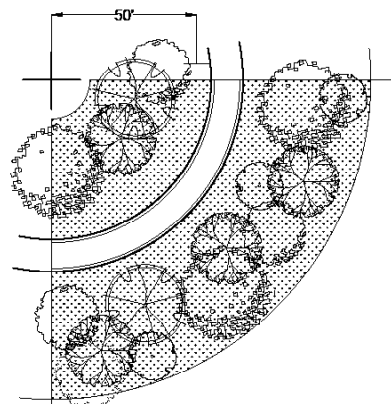
Vertical clearance or clearing height, refers to the development and maintenance within the area above a trail. This has a direct relationship to aesthetics, function and safety for the user. Clearing height requirements allow users to pass safely underneath the tree canopy. The following guidelines must be followed:

Heavy Use / 1-Way Trails: 7-10' clearing height (required)  
10' clearing height (preferred)



Vertical Clearance For Multi-Use Trails

Sight Distance



Acceptable Sight Distance For Pedestrian Trail Users

<b>REQUIRED SPECIFICATIONS</b>		<b>RECOMMENDED SPECIFICATIONS</b>
<b>Amenity</b>	<b>Specification</b>	
MISC	Grading & Drainage	<p>Grade changes should be kept to a minimum to maximize accessibility. Trails should be well graded and groomed to avoid bumps, hidden holes, or other obstructions or hazards for safe and comfortable walking or running.</p> <p>Rest areas are required after any segment over a 5% grade.</p> <p><b>Continuous pitch:</b> &lt;3% ideal grade 1-3% preferred 5-10% maximum sustained</p> <p><b>Short pitch max:</b> 5%-10% maximum slope of 10%</p> <p><b>Max pitch density:</b> 0%-20% of trail</p> <p><b>Target cross slope:</b> 1%-2%</p> <p><b>Maximum cross slope:</b> 2% paved the maximum allowable cross slope is 2% if concrete surface is used 5% unpaved</p>
	ADA	<p>Stringent ADA guidelines for sidewalks. For example, an accessible recreational trail may have segments up to 10%, or segments up to 10 feet with a grade up to 12%. A sidewalk or walkway, in contrast, may not exceed a grade of 5%.</p> <p><b>Turn Radius:</b> Use formula: <math>(1.25 \times \text{velocity in MPH}) + 1.5</math></p> <p><b>Sight Distance:</b> Not critical but 50 feet recommended, especially at road crossings</p> <p><b>Water Crossing:</b> Culvert or boardwalk with handrails; orient deck boards 45-90 degree to direction of travel; width 4-8 feet for light use or 1 way, 10 feet for heavy use or 2 way</p> <p><b>Water Crossing:</b> Stepping stones or ford if water less than 2 feet deep culvert or boardwalk 3-4 feet wide for light use 5-6 feet for heavy use at least one handrail if boardwalk is high use, more than 12 ft long, or more than 4 feet over water</p>

# X.X MOUNTAIN BIKE TRAILS

## OVERVIEW

### Acronym/Abbreviation: MBTR

The design, development, preservation and enhancement of all mountain bike trails in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of mountain bike trails are the active recreation and the enhancement of connections of major destinations to natural areas.

## SERVICE AREA

### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities Act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			City Park Preserve		1+ 1+

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of multi-use trails must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Primary Destination Sign		1+	Secondary Trail Markers Tertiary Trail Markers		1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Benches Bike Racks Bike Stations		1+ 1+ 1+	Drinking Fountains Picnic Tables		1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control





Recreational Support



Safety & Security



Landscape



Aesthetics



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Amenity				
Amenity	Amenity				
Design Requirements	The AASHTO guidelines are vied as the national standard for multi-use trail standards				
	Trail Width: 10' Minimum				
Wayfinding on Trails	<p><b>Red:</b> Background for stop signs, do-not-enter messages, and parking prohibition signs. Red is also used for the prohibitory symbol (circular outline and diagonal bar).</p> <p><b>Black:</b> Background color on one-way signs, and the message on white, yellow, or orange signs.</p> <p><b>White:</b> Background color for regulatory signs (except stop signs) where white is used for the message. white is the message color on blue, brown, and green signs, as well as stop signs.</p> <p><b>Orange:</b> Background color for construction and maintenance signs.</p> <p><b>Yellow:</b> Background for warning signs (except where orange is specified) and school signs.</p> <p><b>Fluorescent Yellow Green:</b> Background for pedestrian, bicycle, and school warning signs.</p> <p><b>Blue:</b> Background for services guidance.</p> <p><b>Green:</b> Background color for directional guidance and permitted movements.</p> <p><b>Brown:</b> Background color for recreational and cultural interest guidance.</p> <p><b>Viewing Distance:</b> Between 20 -150 Feet</p> <p><b>Text Height:</b> Between 3 and 6 inches.</p>				

# X.X EQUESTRIAN TRAILS

## OVERVIEW

### Acronym/Abbreviation: EQTR

The design, development, preservation and enhancement of all equestrian trails in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of equestrian trails is for the safe, separated use of equestrian riders.

## SERVICE AREA

### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

## Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.
			Preserve		1+



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of equestrian trails must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Primary Destination Sign		1+	Secondary Trail Markers Tertiary Trail Markers		1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

MISC

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Specification				
Amenity	Specification				
Length	5-25 miles				
Tread Surface	Mineral soil; crushed, compacted gravel				
	Tread Width	2-4 feet light use or 1-way 6-8 feet heavy use or 2-way			
Clearing Width	Any trail with tread widths less than five feet will require passing spaces of a minimum of five feet width every 1,000 feet				
		8 feet light use or 1way 12 feet heavy use or 2 way			
Clearing Height	10 feet minimum 12 feet preferred				
Grade	1-10 percent preferred, 10% maximum sustained 20% for short distances				
Turn Radius	6 feet				
Sign Distance	50 feet minimum 100 feet preferred and at road crossings				

		<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
MISC		<b>Amenity</b>	<b>Specification</b>
	Water Crossing		For slow moving water less than 3 feet deep - select sites with stable and or gravel base; soil covered culvert is better than bridge; bridge only if water is deep and swift, must be well designed
	Other Uses		Hiking
	Unique Facilities		Parking with trailer space, tether line; or campsites with tether lines or corrals, water, manure dump
	ADA		Efforts should be made to make all trails accessible , unless those modifications would detract from the intended use.

# X.X PADDLING TRAILS

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all paddling trails in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of paddling trails must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classifications of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Amenity				



Recreational Support



Safety & Security



Landscape



Aesthetics



# X.X BRIDGES

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all Bridges in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
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- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classification of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pedestrian entrances at corners must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Amenity				



Recreational Support



Safety & Security



Landscape



Aesthetics

# X.X PEDESTRIAN ENTRANCE AT CORNERS

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all pedestrian entrances at corners in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

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- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

The following are specifications are required for this classification of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pedestrian entrances at corners must receive prior written authorization from the DPARD.

The following specifications are recommended (not required) for this classification of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Amenity				



Recreational Support



Safety & Security



Landscape



Aesthetics

# X.X PEDESTRIAN ENTRANCE AT MID BLOCK

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all pedestrian entrances at mid blocks in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
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- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classification of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pedestrian entrances at corners must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Amenity				



Recreational Support



Safety & Security



Landscape



Aesthetics

# X.X VEHICLE ENTRANCE

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all vehicle entrances in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

The following are specifications are required for this classification of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pedestrian entrances at corners must receive prior written authorization from the DPARD.

The following specifications are recommended (not required) for this classification of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity Specifications					

# X.X LEADWALKS

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all leadwalks in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classification of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pedestrian entrances at corners must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Specification				

# X.X STREETSAPES

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all streetscapes in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Amenity	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space







Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Specification				

# X.X MEDIANS

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of all medians in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classification of types of circulation in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of pedestrian entrances at corners must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of types of circulation to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.



Indoor Facilities



Outdoor Facilities



Communication/  
Wayfinding



Culture & Identity



Site  
Furnishings



Pollution Control



Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Specification				

# X.X ROW (RIGHT OF WAY)

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of right of way in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

[Insert function here]

### SERVICE AREA

#### Pedestrian/Cyclist:

10 Minute walk/5 Minute bike ride

#### Commuters (vehicular):

Up to a one hour drive for commuters. Note: to serve entire city and larger region at times.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- NEPA site constraints
- Land acquisition constraints
- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/ control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Circulation shall be located at each of the following locations in the quantities required.			Circulation shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.



Developed  
Open  
Space





Recreational Support



Safety & Security



Landscape



Aesthetics

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amenity	Specification				



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# Section 5: COMMUNICATION/ WAYFINDING

This section outlines the required and recommended specifications for communication/wayfinding within the City of Denton. The following are the definitions of the items that can be found in the following pages.

Requirement:

- All wayfinding/signage must comply with the sign ordinance or Denton Sign Code ( Ordinance No. 2014-406)
- Existing conditions, accessibility guidelines and safety requirements will determine placement.
- Signage shall be located in every park in areas visible to all users to communicate to vehicular, pedestrian and bicycle traffic.
- Signage shall be easy to read and informative.

## PRIMARY ENTRANCE SIGNS

The primary function of primary entrance signs is to serve as a landmark for wayfinding and to enhance identity of a location.

## SECONDARY ENTRANCE SIGNS

The primary function of secondary entrance signs is to act as the second largest of the wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

## DIRECTIONAL SIGNS/MAPS

The primary functions of directional signs/maps are to direct pedestrian/vehicular traffic along designated vehicular/pedestrian routes of circulation within indoor/ outdoor facilities.

## PRIMARY TRAIL MARKERS

The primary functions of primary trail markers are to serve as a landmark for wayfinding, to enhance identity and communication and to identify the beginning and ending of a trail (primary trailheads).

## SECONDARY TRAIL MARKERS

The primary function of secondary trail markers is to guide and act as the fifth largest of the wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

## TERTIARY TRAIL MARKERS

The primary function of a tertiary trail marker is to enhance the user's experience and contribute to perception and memory safety, and help guide pedestrian/bicycle traffic in a manner that reduces conflict zones.

## **PRIMARY DESTINATION SIGNS**

The primary functions of primary destination signs are to serve as a landmark for wayfinding, to enhance identity and communication and to identify the indoor/outdoor facility.

## **SECONDARY DESTINATION SIGNS**

The primary functions of secondary destination signs are to serve as an internal landmark for wayfinding, to enhance identity of an indoor/outdoor facility and to enhance communication within an indoor/outdoor facility.

## **TERTIARY DESTINATION SIGNS**

The primary functions of tertiary destination signs are to communicate the name of destinations within indoor/outdoor facilities. They are small wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

## **QUATERNARY DESTINATION SIGNS**

The primary functions of quaternary destination signs are to communicate the name of destinations within indoor/outdoor facilities. They are small wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

## **DIRECTORY SIGNS/MAPS (FACILITIES LEVEL)**

The primary functions of directional signs/maps are name/awareness of destinations within indoor/outdoor facilities, directions to destinations within indoor/outdoor facilities and relationship of internal destinations to overall indoor/outdoor facilities.

## **INFORMATIONAL SIGNS**

The primary function of informational signs is to communicate information such as: rules, ordinances, warnings, events, schedules, times, environmental information, historical information, etc.

# X.X PRIMARY ENTRANCE SIGN

## OVERVIEW

### Acronym/Abbreviation: PESW

The design, development, preservation and enhancement of primary entrance signs in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of primary entrance signs is to serve as a landmark for wayfinding and to enhance identity of a location.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		1+			
Community Parks		1+			
Linear Parks		1+			
Preserves		1+			
Neighborhood Parks		1+			
Pocket Parks		1+			
Special Use Parks		1+			



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Open  
Space

## REQUIRED SPECIFICATIONS




The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of primary entrance signs must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of an communication/wayfinding to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.



Aesthetics

Amenity	Specification
Orientation	Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction. It is preferred that this wayfinding element be located near or within view of established/ planned pedestrian/vehicular circulation routes. Primary entrance signs shall be oriented perpendicular to the adjoining road.
Primary Entrance Sign 1 (City Parks)	
Primary Entrance Sign 2 (Community Parks)	
Primary Entrance Sign 3 (Neighborhood Parks)	

# X.X SECONDARY ENTRANCE SIGN

## OVERVIEW

### Acronym/Abbreviation: SESW

The design, development, preservation and enhancement of secondary entrance signs in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of secondary entrance signs is to act as the second largest of the wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		1+	Linear Parks		1+
Community Parks		1+	Preserves		1+
			Neighborhood Parks		1+
			Pocket Parks		1+
			Special Use Parks		1+

## REQUIRED SPECIFICATIONS

The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of secondary entrance signs must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of a communication/wayfinding to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

### Amenity

### Specification

Orientation

Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction. It is preferred that this wayfinding element be located near or within view of established/planned pedestrian/vehicular circulation routes.

Secondary Entrance Sign



Aesthetics

# X.X DIRECTIONAL SIGNS/ MAPS

## OVERVIEW

### Acronym/Abbreviation: DSMW

The design, development, preservation and enhancement of directional signs/maps in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary functions of directional signs/maps are to direct pedestrian/vehicular traffic along designated vehicular/pedestrian routes of circulation within indoor/outdoor facilities.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		1+	Linear Parks		1+
Community Parks		1+	Neighborhood Parks		1+
Preserve		1+	Pocket Parks		1+
			Special Use Parks		1+



## REQUIRED SPECIFICATIONS

The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of directional signs/maps must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

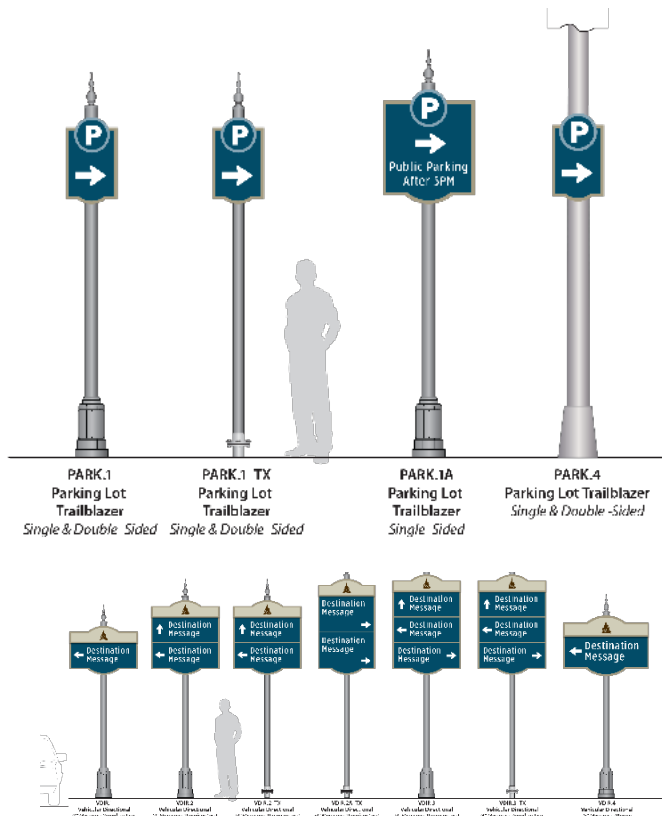
The following specifications are recommended (not required) for this classification of communication/wayfinding to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.



Aesthetics

Amenity	Specification
Communication	Directional Signs / Maps shall communicate the following information: Name of destination points followed by directional arrows.
Color	Background shall be blue. Lettering shall be white.
Surface Material	Sign shall be made of traffic grade aluminum and be consistent in style. Corners shall be rounded.
Hardware	All fasteners shall be stainless steel.
Lighting	n/a
Orientation	Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction. It is preferred that this wayfinding element be located near or within view of planned pedestrian/vehicular circulation routes.

### Directional Signs/Maps



# X.X PRIMARY TRAIL MARKERS

## OVERVIEW

### Acronym/Abbreviation: PTMW

The design, development, preservation and enhancement of primary trail markers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary functions of primary trail markers are to serve as a landmark for wayfinding, to enhance identity and communication and to identify the beginning and ending of a trail (primary trailheads).

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Purpose Trails		1+			
Mountain Bike Trails		1+			
Equestrian Trails		1+			

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of primary trail markers must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of communication/wayfinding to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>

Amenity	Specification
---------	---------------

Location	Located at main collection points, parking lots and at the intersection of major trail systems as well as the beginning and end of trails at each of the following locations in the recommended and/or required quantities listed.
Communication	Directional Signs / Maps shall communicate the following information: Name of Trail System Name associated with the location of the sign (when appropriate) Name of mileage of destination points followed by directional arrows.
Color	Background shall be blue. Lettering shall be white.
Surface Material	Sign shall be made of traffic grade aluminum and be consistent in style. Corners shall be rounded.
Hardware	All fasteners shall be stainless steel.
Lighting	n/a
Orientation	Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction with trail users.



Aesthetics

# X.X SECONDARY TRAIL MARKERS

## OVERVIEW

### Acronym/Abbreviation: STMW

The design, development, preservation and enhancement of secondary trail markers in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of secondary trail markers is to guide and act as the fifth largest of the wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Purpose Trails		2+			
Mountain Bike Trails		2+			
Equestrian Trails		2+			



Developed  
Open  
Space

## REQUIRED SPECIFICATIONS

The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of secondary trail markers must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of an outdoor facility to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.



### Aesthetics

Amenity	Specification
Location	Located at main collection points, parking lots and at the intersection of major trail systems as well as the beginning and end of trails at each of the following locations in the recommended and/or required quantities listed.
Communication	Directional Signs / Maps shall communicate the following information: Name of Trail System Name associated with the location of the sign (when appropriate) Name of mileage of destination points followed by directional arrows.
Color	Background shall be blue. Lettering shall be white.
Surface Material	Sign shall be made of traffic grade aluminum and be consistent in style. Corners shall be rounded.
Hardware	All fasteners shall be stainless steel.
Lighting	n/a
Orientation	Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction with trail users.

# X.X TERTIARY TRAIL MARKERS

## OVERVIEW

### Acronym/Abbreviation: TTMW

The design, development, preservation and enhancement of tertiary trail markers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The function of a tertiary trail marker is to enhance the user's experience and contribute to perception and memory safety, help guide pedestrian/bicycle traffic in a manner that reduces conflict zones.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements



Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Purpose Trails		2+
			Mountain Bike Trails		2+
			Equestrian Trails		2+

**REQUIRED SPECIFICATIONS****RECOMMENDED SPECIFICATIONS**

The following are specifications are required for this classifications of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of tertiary trail markers must receive prior written authorization from the DPARD.

The following specifications are recommended (not required) for this classification of communication/wayfinding to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.



Aesthetics

Amenity	Specification
Location	Located at main collection points, parking lots and at the intersection of major trail systems as well as the beginning and end of trails at each of the following locations in the recommended and/or required quantities listed.
Communication	Directional Signs / Maps shall communicate the following information: Name of Trail System Name associated with the location of the sign (when appropriate) Name of mileage of destination points followed by directional arrows.
Color	Background shall be blue. Lettering shall be white.
Surface Material	Sign shall be made of traffic grade aluminum and be consistent in style. Corners shall be rounded.
Hardware	All fasteners shall be stainless steel.
Lighting	n/a
Orientation	Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction with trail users.

# X.X PRIMARY DESTINATION SIGNS

## OVERVIEW

### Acronym/Abbreviation: PDSW

The design, development, preservation and enhancement of primary destination signs in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary functions of primary destination signs are to serve as a landmark for wayfinding, to enhance identity and communication and to identify the indoor/outdoor facility.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Purpose Trails		2+
			Mountain Bike Trails		2+
			Equestrian Trails		2+



Developed  
Open  
Space





Indoor  
Facilities



Outdoor  
Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			American Legion Hall		1+
			Community Center		1+
			Gymnastics Center		1+
			Indoor Ice Rink		1+
			Indoor Sports Complex		1+
			Natatorium		1+
			Nature Center		1+
			Recreation Center		1+
			Senior Center		1+
			Water Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Baseball Fields Adult		1+
			Baseball Fields Youth		1+
			Bike Park		1+
			Challenge Spot		1+
			Community Garden		1+
			Disc Golf Course		1+
			Basketball Courts		1+
			Multi-Purpose Courts		1+
			Volleyball Courts		1+
			Dog Park		1+
			Driving Range		1+
			Football Fields		1+
			Parking Lots		1+
			Putting Greens		1+
			Rugby Fields		1+
			Skate Park		1+
			Soccer Fields Adult		1+
			Soccer Fields Youth		1+
			Softball Fields Adult		1+
			Softball Fields Youth		1+
			Parking		1+
			Playgrounds		1+
			Sports Complex		1+
			Sprayground		1+
			Swimming Pool		1+
			Tennis Courts		1+
			Wildflower Prairie		1+

## REQUIRED SPECIFICATIONS

The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of primary destination signs must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of communication/wayfinding to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Specification
---------	---------------

Orientation	Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction. It is preferred that this wayfinding element be located near or within view of established/planned pedestrian/vehicular circulation routes.
-------------	--

Example



**PARK.2**  
**Parking Lot Identification**  
*Double-Sided*  
*(Perpendicular to Roadway)*



Aesthetics

# X.X SECONDARY DESTINATION SIGNS

## OVERVIEW

### Acronym/Abbreviation: SDSW

The design, development, preservation and enhancement of secondary destination signs in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary functions of secondary destination signs are to serve as an internal landmark for wayfinding, to enhance identity of an indoor/outdoor facility and to enhance communication within an indoor/outdoor facility.


### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements



Indoor Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Advance Tech Program Room		1+			
Indoor Water Playground		1+			
Indoor Swimming Pool		1+			
Cardio Room		1+			
Concessions		1+			
Exercise Equipment Room		1+			
Group Exercise Studio		1+			
Game Room		1+			
Gymnasium		1+			
Indoor Track		1+			
Meeting Room		1+			
Multi-Purpose Room		1+			
Performance Room		1+			
Restrooms		1+			
Teen Center		1+			
Weight Room		1+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents City of Denton. Any and all modifications to the required specifications in the development of secondary destinations signs must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classifications of communication/wayfinding to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Orientation	Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction.				
Example					



Aesthetics

# X.X TERTIARY DESTINATION SIGNS

## OVERVIEW

### Acronym/Abbreviation: TDSW

The design, development, preservation and enhancement of tertiary destination signs in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary functions of tertiary destination signs are to communicate the name of destinations within indoor/outdoor facilities. They are small wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements



Indoor  
Facilities



Outdoor  
Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Concessions Restrooms		1+ 1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Pavilions Shade Structures		1+ 1+			

# X.X QUATERNARY DESTINATION SIGNS

## OVERVIEW

### Acronym/Abbreviation: QDSW

The design, development, preservation and enhancement of quaternary destination signs in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary functions of quaternary destination signs are to communicate the name of destinations within indoor/outdoor facilities. They are small wayfinding signs, therefore they clearly identify and communicate a hierarchy. This assists in orientation for the user.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements



Indoor Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
All Indoor Facilities		1+			

# X.X DIRECTIONAL SIGNS/ MAPS

## OVERVIEW

### Acronym/Abbreviation: DSMW

The design, development, preservation and enhancement of directional signs/maps in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary functions of directional signs/maps are name/awareness of destinations within indoor/outdoor facilities, directions to destinations within indoor/outdoor facilities and relationship of internal destinations to overall indoor/outdoor facilities.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements





Indoor  
Facilities



Outdoor  
Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This signage shall be located at each of the following locations in the quantities required.			This signage shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Center		1+			
Gymnastic Center		1+			
Indoor Ice Rink,		1+			
Indoor Sports Complex		1+			
Natatorium		1+			
Recreational Center		1+			
Senior Center		1+			
Water Park		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Baseball Fields		1+			
Soccer Fields		1+			
Softball Fields		1+			
Challenge Spot		1+			
Community Gardens		1+			
Sprayground		1+			
Disc Golf Course		1+			
Driving Range		1+			
Sports Complex		1+			
Tennis Courts		1+			
Bike Park		1+			
Dog Park		1+			
Skate Park		1+			
Wildflower Prairie		1+			

# X.X INFORMATIONAL SIGNS

## OVERVIEW

### Acronym/Abbreviation: ISW

The design, development, preservation and enhancement of informational signs in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of informational signs is to communicate information such as: rules, ordinances, warnings, events, schedules, times, environmental information, historical information, etc.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Orientation




Placement/direction shall be designed in a manner that is safe, convenient and encourages interaction. It is preferred that this wayfinding element be located near or within view of established/planned pedestrian circulation routes. Digital display signs shall be orientated parallel or perpendicular to the facility it is serving.

## List of Types of Information Signs

Page#	Type	XX	Reservations	XX	Hole Numbers
XX	Digital Displays	XX	Rules Sign	XX	Dog Run Numbers
XX	Mobile Applications	XX	Warning Sign	XX	Seating Sections
XX	Interpretive Signs	XX	Shelter Numbers	XX	Pool Numbers
XX	Historical Markers	XX	Field Numbers	XX	Plot Numbers
XX	Donor/naming Rights	XX	Court Numbers	XX	Lane Numbers
XX	ADA Parking Spaces	XX	Course Numbers	XX	Ages

<b>REQUIRED LOCATIONS</b>	<b>RECOMMENDED LOCATIONS</b>
This signage shall be located at each of the following locations in the quantities required.	This signage shall be located at each of the following locations in the quantities recommended.

**Digital Displays**





	Amenity	Reference	Min.	Amenity	Reference	Rec.
 Developed Open Space				City Parks Community Parks Special Use Parks		1 1 1
 Indoor Facilities				Community Center Gymnastic Center Indoor Ice Hockey Rink Indoor Sports Complex Natatorium Recreation Center Senior Center Water Park		1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+
 Outdoor Facilities				Amphitheater Swimming Pool Sports Complex		1+ 1+ 1+

**REQUIRED SPECIFICATION**

The following specifications are required for this classifications of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of digital displays must receive prior written authorization from the DPARD.

Amenity	Specification
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 Aesthetics	Digital Display Examples 
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REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Mobile Applications					
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Developed Open Space			City Parks		1
			Community Parks		1
			Linear Parks		1
			Preserve		1
			Neighborhood Park		1
			Pocket Park		1
			Special Use Parks		1
 Indoor Facilities			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Hockey Rink		1+
			Indoor Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Senior Center		1+
		Water Park		1+	
 Outdoor Facilities			Amphitheater		1+
			Swimming Pool		1+
			Community Garden		1+
			Disc Golf Course		1+
			Challenge Spot		1+
			Driving Range		1+
			Basketball Court		1+
			Multi-Purpose Court		1+
			Tennis Court		1+
			Volleyball Court		1+
			Baseball Fields (Adult)		1+
			Baseball Field (Youth)		1+
			Football Field		1+
			Rugby Field		1+
			Soccer Field (Adult)		1+
			Soccer Field (Youth)		1+
			Softball Field (Adult)		1+
			Softball Field (Youth)		1+
			Pavilions		1+
			Playgrounds		1+
		Putting Greens		1+	
		Shade structures		1+	
		Sport Complex		1+	
		Bike Park		1+	
		Dog Park		1+	
		Skate Park		1+	
		Wildflower Prairie		1+	
 Circulation			Multi-Use Trails		1+
			Mountain Bike Trails		1+
			Equestrian Trails		1+
			Paddling Trails		1+



Site  
Furnishing

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Benches		1+
			Bike racks		1+
			Bike Stations		1+
			Bleachers		1+
			Picnic Tables		1+
			Drinking Fountains		1+
			Grills		1+

**Interpretive Signs**

When used in natural areas, these signs shall be placed outside environmentally sensitive areas (i.e. wetlands and endangered habitats) and shall be placed in areas that are accessible to all.

**Flora**



Developed  
Open  
Space

Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1
			Community Parks		1
			Linear Parks		1
			Preserve		1
			Neighborhood Park		1
			Pocket Park		1
			Special Use Parks		1



Outdoor  
Facilities

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Community Garden		1+
			Wildflower Prairie		1+



Circulation

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Purpose Trails		1+
			Mountain Bike Trails		1+
			Equestrian Trails		1+
			Paddling Trails		1+

**Fauna**








Developed  
Open  
Space

Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1
			Community Parks		1
			Linear Parks		1
			Preserve		1
			Neighborhood Park		1
			Pocket Park		1
			Special Use Parks		1



Outdoor  
Facilities

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Community Garden		1+
			Wildflower Prairie		1+

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Circulation			Multi-Purpose Trails		1+
			Mountain Bike Trails		1+
			Equestrian Trails		1+
			Paddling Trails		1+
<b>Regional Data</b>					
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Developed Open Space			City Parks		1
			Community Parks		1
			Linear Parks		1
			Preserve		1
			Neighborhood Park		1
			Pocket Park		1
			Special Use Parks		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Outdoor Facilities			Amphitheater		1+
			Community Garden		1+
			Wildflower Prairie		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Circulation			Multi-Purpose Trails		1+
			Mountain Bike Trails		1+
			Equestrian Trails		1+
			Paddling Trails		1+
<b>Historical Markers</b>					
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Developed Open Space			City Parks		1
			Community Parks		1
			Linear Parks		1
			Preserve		1
			Neighborhood Park		1
			Pocket Park		1
			Special Use Parks		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Indoor Facilities			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Hockey Rink		1+
			Indoor Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Senior Center		1+
			Water Park		1+



Outdoor Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Swimming Pool		1+
			Community Garden		1+
			Disc Golf Course		1+
			Challenge Spot		1+
			Driving Range		1+
			Basketball Court		1+
			Multi-Purpose Court		1+
			Tennis Court		1+
			Volleyball Court		1+
			Baseball Fields (Adult)		1+
			Baseball Field (Youth)		1+
			Football Field		1+
			Rugby Field		1+
			Soccer Field (Adult)		1+
			Soccer Field (Youth)		1+
			Softball Field (Adult)		1+
			Softball Field (Youth)		1+
			Pavilions		1+
			Playgrounds		1+
			Putting Greens		1+
			Shade structures		1+
			Sport Complex		1+



Outdoor Facilities

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Bike Park		1+
			Dog Park		1+
			Skate Park		1+
			Wildflower Prairie		1+



Circulation

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Purpose Trails		1+
			Mountain Bike Trails		1+
			Equestrian Trails		1+
			Paddling Trails		1+



Site Furnishing






Amenity	Reference	Min.	Amenity	Reference	Rec.
			Benches		1+
			Bike racks		1+
			Bike Stations		1+
			Bleachers		1+
			Picnic Tables		1+
			Drinking Fountains		1+
			Grills		1+

**Donor/naming Rights**















Developed Open Space

Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1
			Community Parks		1
			Linear Parks		1
			Preserve		1
			Neighborhood Park		1
			Pocket Park		1
			Special Use Parks		1

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Amenity	Reference	Min.	Amenity	Reference	Rec.
 Indoor Facilities			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Hockey Rink		1+
			Indoor Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Senior Center		1+
			Water Park		1+
 Outdoor Facilities			Amphitheater		1+
			Swimming Pool		1+
			Community Garden		1+
			Disc Golf Course		1+
			Challenge Spot		1+
			Driving Range		1+
			Basketball Court		1+
			Multi-Purpose Court		1+
			Tennis Court		1+
			Volleyball Court		1+
			Baseball Fields (Adult)		1+
			Baseball Field (Youth)		1+
			Football Field		1+
			Rugby Field		1+
			Soccer Field (Adult)		1+
 Outdoor Facilities			Soccer Field (Youth)		1+
			Softball Field (Adult)		1+
			Softball Field (Youth)		1+
			Pavilions		1+
			Playgrounds		1+
			Putting Greens		1+
			Shade structures		1+
			Sport Complex		1+
 Circulation			Multi-Purpose Trails		1+
			Mountain Bike Trails		1+
			Equestrian Trails		1+
			Paddling Trails		1+
 Site Furnishing			Benches		1+
			Bike racks		1+
			Bike Stations		1+
			Bleachers		1+
			Picnic Tables		1+
			Drinking Fountains		1+
			Grills		1+



REQUIRED LOCATIONS		RECOMMENDED LOCATIONS				
<b>ADA Parking Spaces</b>						
 Developed Open Space	Amenity	Reference	Min.	Amenity	Reference	Rec.
				City Parks Community Parks Linear Parks Preserve Neighborhood Park Pocket Park Special Use Parks		1 1 1 1 1 1 1
 Indoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.
				Community Center Gymnastic Center Indoor Ice Hockey Rink Indoor Sports Complex Natatorium Recreation Center Senior Center Water Park		1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.
				Swimming Pool Community Garden Spraygrounds Parking Lots Sports Complex Bike Park Dog Park Skate Park		1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+
<b>REQUIRED SPECIFICATION</b>						
<p>The following are specifications are required for this classifications of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of ADA Parking Spaces must receive prior written authorization from the DPARD.</p>						
 Aesthetics	Amenity	Specification				
	Orientation	ADA parking space			and parallel or perpendicular to	

		REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Rules Signs							
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Developed Open Space	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Indoor Facilities	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Outdoor Facilities	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
Warning Signs							
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Developed Open Space	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Indoor Facilities	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Outdoor Facilities	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Circulation				Multi-Purpose Trails 1+ Mountain Bike Trails 1+ Equestrian Trails 1+ Paddling Trails 1+			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	

**REQUIRED LOCATIONS**

**RECOMMENDED LOCATIONS**

**REQUIRED SPECIFICATION**

The following are specifications are required for this classification of communication/wayfinding in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of warning signs must receive prior written authorization from the DPARD.

**Amenity**                      **Specification**

Examples

Keep Out



No Motorized Vehicles



No Horseback Riding







No Practice on Lined Fields















Aesthetics







Aesthetics

REQUIRED LOCATIONS	RECOMMENDED LOCATIONS
Amenity	Specification
Examples	<p>No Skateboarding</p>  <p>No Smoking</p>  <p>No Swimming</p>  <p>Notice of Surveillance</p> 
Materials	<p>Galvanized Square Sign Post</p> <p>Must be approved and compliant with AASHTO specifications</p> <p>Dimensions: 2" X Various Heights</p> <p>* Signs will be placed where applicable, locations may be flexible to changes in safety, security and need of the immediate area</p>

		REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
<b>Shelter Numbers</b>							
 Indoor Facilities	Amenity	Reference	Min.	Amenity	PLACEHOLDER	Reference	Rec.
	PLACEHOLDER						
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	PLACEHOLDER	Reference	Rec.
	PLACEHOLDER			PLACEHOLDER			
<b>Field Number</b>							
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	PLACEHOLDER	Reference	Rec.
	PLACEHOLDER			PLACEHOLDER			
<b>Court Number</b>							
 Indoor Facilities	Amenity	Reference	Min.	Amenity	PLACEHOLDER	Reference	Rec.
	PLACEHOLDER			PLACEHOLDER			
<b>Course Number</b>							
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	PLACEHOLDER	Reference	Rec.
	PLACEHOLDER			PLACEHOLDER			
<b>Hole Number</b>							
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	PLACEHOLDER	Reference	Rec.
	PLACEHOLDER			PLACEHOLDER			

		REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
<b>Dog Run Number</b>							
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.	
	PLACEHOLDER			PLACEHOLDER			
<b>Seating Sections</b>							
 Indoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.	
	PLACEHOLDER			PLACEHOLDER			
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.	
	PLACEHOLDER			PLACEHOLDER			
<b>Pool Numbers</b>							
 Indoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.	
	PLACEHOLDER			PLACEHOLDER			
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.	
	PLACEHOLDER			PLACEHOLDER			
<b>Plot Numbers</b>							
 Developed Open Space	Amenity	Reference	Min.	Amenity	Reference	Rec.	
	PLACEHOLDER			PLACEHOLDER			
 Outdoor Facilities	Amenity	Reference	Min.	Amenity	Reference	Rec.	
	PLACEHOLDER			PLACEHOLDER			

		REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Lane Numbers							
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Developed Open Space	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Outdoor Facilities	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
Age Requirements							
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Indoor Facilities	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	
 Outdoor Facilities	PLACEHOLDER			PLACEHOLDER			
	Amenity	Reference	Min.	Amenity	Reference	Rec.	



# Section 6: Culture & Identity

This section outlines the required and recommended specifications for culture and identity within the City of Denton. The following are the definitions of the items that can be found in the following pages.

## PUBLIC ART

The primary function of standards in relation to public art is to provide a designated space and designed environment to host artwork selected by the art board.

## FLAG POLES

The primary function of flag poles is to support national, state and local identity.

## HISTORICAL MARKERS

The primary function of historic markers is to record and enhance awareness of historical people, places and/or events. This contributes greatly to identity, culture and education.

## MEMORIALS

The primary function of memorials is to record and enhance awareness of people, places, contributions and/or events. This contributes greatly to identity, culture and education.



# X.X PUBLIC ART

## OVERVIEW

### Acronym/Abbreviation: PART

The design, development, preservation and enhancement of public art in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of standards in relation to public art is to provide a designated space and designed environment to host artwork selected by the art board.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Types

Murals  
Monuments  
Sculptures  
Reliefs

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This amenity shall be located at each of the following locations in the quantities required.			This amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks Community Park		1+ 1+	Linear Park Preserves Neighborhood Park Pocket Park Special Use Park		1+ 1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center Gymnastic Center Indoor Ice Hockey Rink Indoor Sports Complex Natatorium Recreation Center Senior Center Water Park		1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater Community Garden Playgrounds Playscapes Sports Complex Bike Park Dog Park Skate Park Wildflower Prairie		1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Purpose Trail		1+

REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classifications of culture &amp; identity elements in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of public art must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of culture &amp; identity elements to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Benches		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Receptacles		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Security Lights		1+			
Amenity	Specification				
Identity	<p>The aesthetics, function, availability and maintenance of public art greatly contribute to the overall perception of how DPARD and the city of Denton support fine arts as well as the culture of Denton. Therefore all public art within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p> <p>Public art shall be sensitively integrated into the fabric of the overall park system.</p>				
Hardware	<p>All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p>				



Site  
Furnishing



Pollution  
Control



Safety &  
Security



Aesthetics

# X.X FLAG POLES

## OVERVIEW

### Acronym/Abbreviation: FLPA

The design, development, preservation and enhancement of flag poles in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of flag poles is to support national, state and local identity.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			REQUIRED LOCATIONS		
This amenity shall be located at each of the following locations in the quantities required.			This amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks Community Park		1+ 1+	Linear Park Preserves Neighborhood Park Pocket Park Special Use Park		1+ 1+ 1+ 1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center Gymnastic Center Indoor Ice Hockey Rink Indoor Sports Complex Natatorium Recreation Center Senior Center Water Park		1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of culture & identity elements in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a flag pole must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of culture & identity elements to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Identity	Flag poles shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all flag poles within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Color	Flag poles shall not be painted. They shall remain either stainless steel or aluminum.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				
Warranty	A one-year warranty is required.				
Life Cycle Expectations	Flag poles are anticipated to require replacement after an average number of 20 years of normal and ordinary usage. Those numbers are directly related to the quality, usage and environmental factors surrounding each flag pole.				

## REQUIRED SPECIFICATIONS

## RECOMMENDED SPECIFICATIONS

### Amenity

### Specification

#### Installation Notes

All flag poles shall be installed in accordance with manufacturer's recommendations.

#### Options

One flag pole has been selected as the standard option for use in the Denton Parks System. Any and all substitutions must be approved in writing from the DPARD prior to installation.

#### Option 1:

Manufacturer: Betsy Ross Flag Girl

Type: Pedestrian Amenity

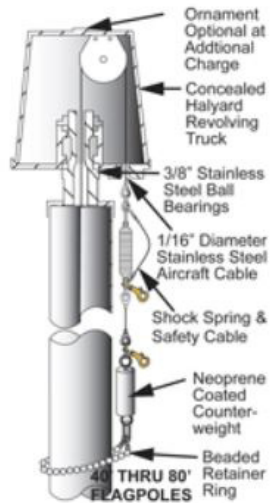
Product/Catalog #: 35' B-35 Internal Haylard Flagpole

Color:

Cost:\$2,260.00

Notes:

Site:



Aesthetics

# X.X HISTORICAL MARKERS

## OVERVIEW

### Acronym/Abbreviation: HMAR

The design, development, preservation and enhancement of historical markers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of historic markers is to record and enhance awareness of historical people, places and/or events. This contributes greatly to identity, culture and education.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This amenity shall be located at each of the following locations in the quantities required.			This amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		1+			
Community Park		1+			
Linear Parks		1+			
Preserves		1+			
Neighborhood Park		1+			
Pocket Park		1+			
Special Use		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-purpose Trail					
Mountain Bike Trail					
Paddling Trail					
<i>*If site/location qualifies for a historical marker</i>					



# X.X MEMORIALS

## OVERVIEW

### Acronym/Abbreviation: MEM

The design, development, preservation and enhancement of memorials in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of memorials is to record and enhance awareness of people, places, contributions and/or events. This contributes greatly to identity, culture and education.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Types

Plaques  
Murals  
Sculptures  
Reliefs

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This amenity shall be located at each of the following locations in the quantities required.			This amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		1+			
Community Park		1+			
Linear Parks		1+			
Preserves		1+			
Neighborhood Park		1+			
Pocket Park		1+			
Special Use		1+			
Cemeteries		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-purpose Trail					
Mountain Bike Trail					
Paddling Trail					
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of culture & identity elements in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of a memorial must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of culture & identity elements to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Identity	Memorials shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all memorials within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Color	Due to the nature of memorials, any of the approved colors may be used.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				



# Section 7: SITE FURNISHINGS

This section outlines the required and recommended specifications for site furnishings within the City of Denton. The following are the definitions of the items that can be found in the following pages.

Existing conditions, accessibility guidelines and safety requirements will determine placement in relation to pedestrian pathways, eating space, outside of the path of travel. Long term goal is for civic spaces to share in consistency/similarity of site furnishings.

## BENCHES

The primary function of benches is to provide a specific space and site furnishing to support rest within the parks system.

## BIKE RACKS

The primary function of bike racks is to provide a specific space and site furnishing for cyclists to safely secure their bikes within the park system.

## BIKE STATIONS

The primary function of bike stations is to provide a specific space and site furnishing for maintenance to personal bicycles within the parks system.

## BLEACHERS

The primary function of bleachers is to provide a specific space and site furnishing for viewing sporting events.

## DRINKING FOUNTAINS

The primary function of drinking fountains is to provide a specific space and site furnishing for accessing safe drinking water within the parks system.

## GRILLS

The primary function of grills is to provide a specific space and site furnishing for park users to cook within the park system.

## PICNIC TABLES

The primary function of picnic tables is to provide a specific space and site furnishing for park users to sit, relax, and eat.

## PLANTERS

The primary function of planters is to provide a specific space and site furnishing to enhance aesthetics within parks.

## SEAT WALL

The primary function of seat walls is to provide a specific space and site furnishing for park users to sit where there are no designated benched or picnic tables nearby.

# X.X BENCHES

## OVERVIEW

### Acronym/Abbreviation: BNCH

The design, development, preservation and enhancement of benches in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of benches is to provide a specific space and site furnishing to support rest within the parks system.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		10	City Park		11+
Community Park		10	Community Park		11+
Linear Park		2	Linear Park		3+
Preserve		2	Preserve		3+
Neighborhood Park		2	Neighborhood Park		3+
Pocket Park		2	Pocket Park		3+
Special Use Park		2	Special Use Park		3+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Center		2			
Gymnastic Center		2			
Indoor Ice Hockey Rink		2			
Indoor Sports Complex		2			
Nature Center		1+			
Recreation Center		2			
Senior Center		2			
Water Park		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Swimming Pools		2			
Sprayground		2			
Community Garden		2			
Disc Golf Course		3			
Driving Range		1+			
Basketball Court		1			
Multi-Purpose Court		1+			
Volleyball Court		1+			
Playground		1			
Playscape		1			
Putting Green		1			
Sports Complex		4			
Bike Park		2			
Dog Park		2			
Skate Park		2			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Purpose Trail		PRN			



REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of benches must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			<b>Informational Signs</b>		
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights		1+
			Low Mast Lighting		1+
Amenity	Specification				
Color	<p><b>Black:</b> All structural framework of benches shall be black. Seating may be alternate colors. Slats and webcoat of benches.  <b>Green:</b> Seating may be alternate colors. Slats and webcoat of benches.  <b>Orange:</b> Seating may be alternate colors. Slats and webcoat of benches.  <b>Pink:</b> Seating may be alternate colors. Slats and webcoat of benches.  <b>Purple:</b> Seating may be alternate colors. Slats and webcoat of benches.  <b>Red:</b> Seating may be alternate colors. Slats and webcoat of benches.  <b>Yellow:</b> Seating may be alternate colors. Slats and webcoat of benches.</p>				
Wood	<p>Avoid specifying wood because: wood footing will rot, they are prone to termite infestation, the shrink/swell defect of moisture loosens bolts and creates a safety hazard, and pressure treated wood contains chromate copper arsenate (CCA), a carcinogen.</p>				
Identity	<p>Benches shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton as well as the overall perception of how DPARD and the city of Denton support and encourage comfort, convenience and safety. Therefore all benches within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>				



Aesthetics

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

Amenity	Specification
Layout Examples	<p>Bench Adjacent to sidewalk (min. requirements)</p> <p>Example of companion seating</p> <p>Example of companion seating</p>

Amenity	Specification
MISC	<p>Installation surface Research on concrete as an installation surface for benches has shown to perform the best and to have the lowest regular maintenance requirements for a variety of installation methods. Both in-ground and surface mounts work well on concrete and are easy to install.</p> <p>Mounting Options Research has identified two options available for mounting benches and their definitions are below. Surface mount and / or in-ground mount are the preferred mounting options for the Denton park system.</p> <p><b>Surface Mount:</b> The metal flange or base is anchored to the ground with appropriate hardware. Tamper proof options are available for greater security.  <b>In-Ground Mount:</b> The bench is embedded into concrete footings.</p> <p>Bench Seating Layout Options Research has identified numerous layout options for bench seating. It has been determined that stand alone and companion bench seating layouts meet the current needs of the DPARD.</p> <p><b>Stand Alone Layout:</b> a single bench on a concrete slab  <b>Companion Layout:</b> two benches arranged in a manner that larger groups may congregate in a single area</p>

		REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
Amenity		Specification	
MISC	Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.	
	Recommendations	It is recommended that benches have an adjacent companion seating space outside the path of travel whenever possible.	
	Installation Notes	Installation shall follow all manufacturer's specifications and be in accordance with manufacturer's recommendations.	
	Warranty	A one-year minimum warranty is required on all new benches and installation thereof.	
	Life Cycle Expectations	Benches are anticipated to require replacement after 20 years of normal and ordinary use.	
	Installation Notes	<p>All benches shall be placed on decomposed granite or on a reinforced concrete pad. All benches shall be centered on the pad with the length of the bench parallel to the length of the pad. If there is a non-flush obstruction at the front of the bench shall either be placed flush to that obstruction or shall overhang it, so as not to present a safety hazard.</p> <p>All fasteners shall be stainless steel.</p>	
	Maintenance	<p>Maintenance of site furnishings shall include the following:</p> <p><b>Structure:</b> Inspect on a regular schedule for structural integrity, loose or missing hardware and repair/replace as necessary. Site furnishings shall be clean, operational/functional and free of rust. All surfaces must be free of protrusions, exposed sharp edges and/or pointed corners.</p> <p>The aesthetics of site furnishings shall be inspected for graffiti and/or the need of repairs in relation to coatings/paint including but not limited to fading, chipping, cracks, scratches and any other form of damage.</p>	



**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

**Standard Options**

Bench Options

Four benches have been selected as the standard options for use in the Denton Parks System. Any and all substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.



	<b>Option 1</b>	<b>Option 2</b>
Manufacturer	Dumor	Dumor
Type	Pedestrian amenity	Pedestrian amenity
Product/	Bench 58-60 series w/center armrest	Bench 92 armrest
Color	Black Frame	Black Frame
Cost	\$1,616.00	\$1,482.00

**Standard Options**

Bench Options



	<b>Option 3</b>	<b>Option 4</b>
Manufacturer	Webcoat	Webcoat
Type	pedestrian amenity	pedestrian amenity
Product/ Catalog #	B6WBULSM-POLY Surface Mount	B6ULSM-POLY Surface Mount
Color	Green w/ Black Frame	Green w/ Black Frame
Cost	\$662.00	\$Waiting on Quote

# X.X BIKE RACK

## OVERVIEW

### Acronym/Abbreviation: BRK

The design, development, preservation and enhancement of bike racks in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of bike racks is to provide a specific space and site furnishing for cyclists to safely secure their bikes within the park system.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		2	Linear Park		
Community Park		2			
Preserve		1			
Neighborhood Park		1			
Pocket Park		1			
Special Use Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Center		1	Indoor Sports Complex		1
Gymnastic Center		1			
Indoor Ice Hockey Rink		1			
Natatorium		1			
Nature Center		1			
Recreation Center		1			
Senior Center		1			
Water Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Swimming Pools		1	Sprayground		1
Bike Park		1	Community Garden		1
Sports Complex		1	Disc Golf Course		1
			Tennis Court		1
			Skate Park		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Purpose Trail		PRN			

## REQUIRED SPECIFICATIONS

The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of bike racks must receive prior written authorization from the DPARD.

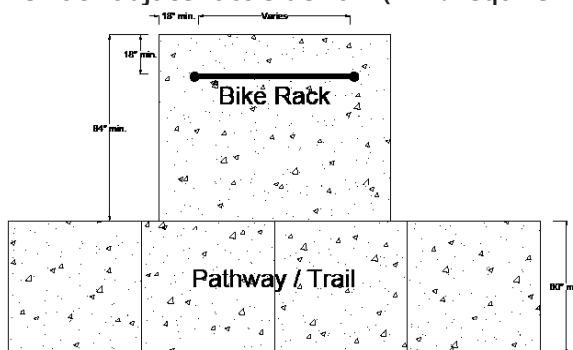
## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Informational Signs		
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Low Mast Lighting		1+

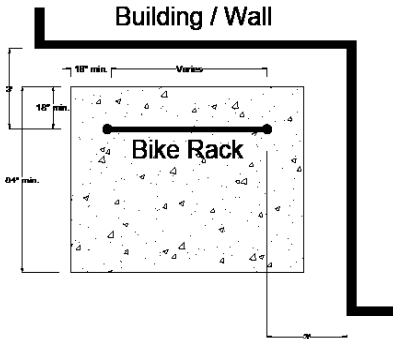
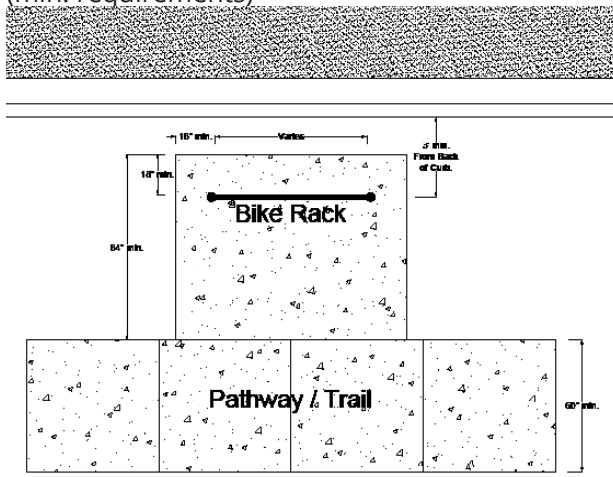


Amenity	Specification
Color	<b>Black:</b> All structural framework of bike racks shall be black.
Identity	Bike racks shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton as well as the overall perception of how DPARD and the city of Denton support and encourage comfort, convenience and safety. Therefore all bike racks within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.
Setbacks	<p>Placement must allow adequate clearance space within the public right of way. Bike racks shall follow these minimum recommended setbacks when installed near walls, streets and/or pedestrian pathways.</p> <p>Follow these recommended setbacks when installing bike racks near walls, streets and/or pedestrian pathways.</p> <p><b>Bike Rack adjacent to sidewalk (min. requirements)</b></p>





Aesthetics




REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p><b>Amenity</b></p> <p>Setbacks</p>	<p><b>Specification</b></p> <p>Follow these recommended setbacks when installing bike racks near walls, streets and/or pedestrian pathways.</p> <p><b>Bike Rack adjacent to building or wall (min. requirements)</b> Racks shall be located a minimum of 3 feet from parallel or perpendicular walls.</p>  <p><b>Bike Rack adjacent to street or other vehicular circulation (min. requirements)</b></p> 
<p><b>Amenity</b></p> <p>MISC</p>	<p><b>Specification</b></p> <p><b>Hardware</b> All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p> <p><b>Duration Type</b> Short-Term parking is the intended use of bike racks within DPARD.  Short-Term Parking: the bike racks provided throughout the Denton PARD system are intended to fall into the classification of short term parking. This is defined as unsheltered, unenclosed bike racks with an intended parking duration of less than two hours.</p> <p><b>Installation Notes</b> Research on concrete as an installation surface for bike racks has shown to perform the best and to have the lowest regular maintenance requirements for a variety of installation methods. Both in-ground and surface mounts work well on concrete and are easy to install. All bike racks shall be installed in accordance with manufacturer's recommendations. All bike racks shall be placed on decomposed granite or on a reinforced concrete pad. All bike racks shall follow the setbacks listed in this master plan. All fasteners shall be stainless steel.</p>

	REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
MISC	<b>Amenity</b>	<b>Specification</b>
	Warranty	A one-year minimum warranty is required on all new bike racks and installation thereof.
	Life Cycle Expectations	Bike racks are anticipated to require replacement after 20 years of normal and ordinary usage.
	Mounting Options	<p>Research has identified three options available for mounting horizontal bike racks and their definitions are below. Surface mount and/or in-ground mount are the preferred mounting options for the Denton park system.</p> <p><b>Surface Mount:</b> The metal flange is anchored to the ground with appropriate hardware. Tamper proof options are available for greater security.</p> <p><b>In-Ground Mount:</b> The rack is embedded into concrete surface.</p> <p><b>Rail Mount:</b> Racks are bolted to rails which may be anchored or left free-standing.</p>

**Standard Options**

Bike Rack Options

Three bike racks have been selected as the standard options for use in the Denton Parks System. Any and all substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.

		
	<b>Option 1</b>	<b>Option 2</b>
Manufacturer	Dumor	Dumor
Type	pedestrian amenity	pedestrian amenity
Product/Catalog	Bike rack 188-05	Bike rack 125-30
Color	black	black
Cost	\$815.00	\$480.00
Notes	ties into existing amenities located around the city	ties into existing amenities located around the city
		
		<b>Option 3</b>
Manufacturer		custom
Type		pedestrian amenity
Product/Catalog #		
Color		
Cost		
Notes		ties into existing amenities located around the city

# X.X BIKE STATIONS

## OVERVIEW

### Acronym/Abbreviation: BST

The design, development, preservation and enhancement of bike stations in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of bike stations is to provide a specific space and site furnishing for maintenance to personal bicycles within the parks system.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1	Linear Park		1
Community Park		1	Preserve		1
			Neighborhood Park		1
			Pocket Park		1
			Special Use Park		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Recreation Center		1	Community Center		1
			Indoor Sports Complex		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bike Park		1	Sports Complex		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Purpose Trail		PRN			

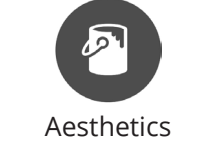
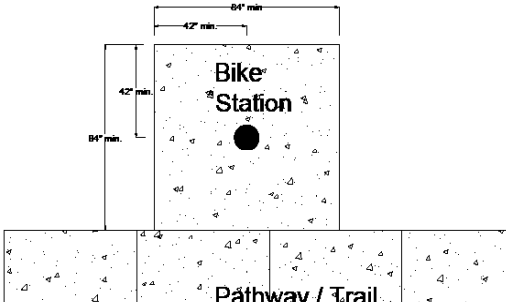


REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of bike stations must receive prior written authorization from the DPARD.	The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
			Informational Signs		
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights		1+
			Low Mast Lighting		1+

Amenity	Specification
---------	---------------

Color	<b>Black:</b> All structural framework of bike stations shall be black. Cover may be black <b>Green:</b> Cover may be green
Identity	Bike stations shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton as well as the overall perception of how DPARD and the city of Denton support and encourage comfort, convenience and safety. Therefore all bike racks within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.
Setbacks	Follow these recommended setbacks when installing bike stations near walls, streets and/or pedestrian pathways. Bike stations shall be installed in a location and manner that bicycles being repaired do not impede pedestrian and vehicular traffic flow in adjacent areas.
Options	<b>Bike Station adjacent to pathway/trail (min. requirements)</b>





Aesthetics

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
Amenity	Specification
Options	Bike Station adjacent to building/wall (min. requirements)

MISC

Amenity	Specification
Warranty	A one-year minimum warranty is required on all new bike stations and installation thereof.
Life Cycle Expectations	Bike stations are anticipated to require replacement after 20 years of normal and ordinary usage.
Installation Surface	Research on concrete as an installation surface for bike stations has shown to perform the best and to have the lowest regular maintenance requirements for a variety of installation methods. Both in-ground and surface mounts work well on concrete and are easy to install.
Mounting Options	<p>Research has identified two options available for mounting bike stations and their definitions are below. Surface mount and/or in-ground mount are the preferred mounting options for the Denton park system.</p> <p><b>Surface Mount:</b> The metal flange is anchored to the ground with appropriate hardware. Tamper proof options are available for greater security.</p> <p><b>In-Ground Mount:</b> The rack is embedded into concrete surface.</p>

**Standard Options**

Bike Station Options

Two bike stations have been selected as the standard options for use in the Denton Parks System. Any substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.		
	<b>Option 1</b>	<b>Option 2</b>
Manufacturer	MDF	MDF
Type	pedestrian, cyclist amenity	pedestrian, cyclist amenity
Product/ Catalog #	195 SM Bottle Filler / Repair Station	185 SM
Color	black	black
Cost	\$815.00	\$480.00

# X.X BLEACHERS

## OVERVIEW

### Acronym/Abbreviation: BLCH

The design, development, preservation and enhancement of bleachers in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of bleachers is to provide a specific space and site furnishing for viewing sporting events.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Indoor  
Facilities



Outdoor  
Facilities



Communication/  
wayfinding



Safety & Security

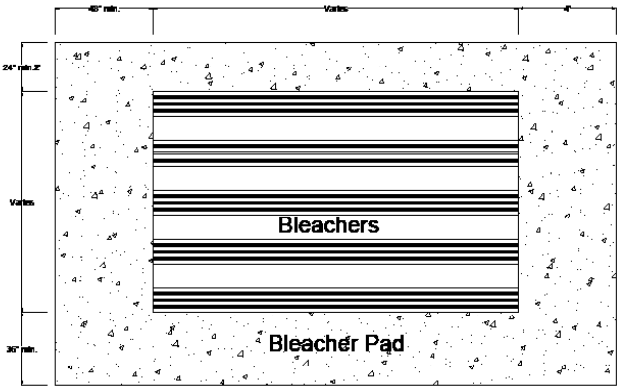
REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Sports Complex		2+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Baseball Field (Adult)		2+			
Baseball Field (Youth)		2+			
Football Field		2+			
Rugby Field		2+			
Soccer Field (Adult)		2+			
Soccer Field (Youth)		2+			
Softball Field (Adult)		2+			
Softball Field (Youth)		2+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of bleachers must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			<b>Informational Signs</b>		
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights		1+
			Reservations		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Mid Mast Lighting		1+
			Low Mast Lighting		1+



Aesthetics

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

Amenity	Specification
Color	<p><b>Aluminum:</b> Bleachers shall not be painted, they must remain in their aluminum finish</p> <p><b>Black:</b> All structural framework of bleachers shall be black.</p>
Identity	<p>Bleachers shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton as well as the overall perception of how DPARD and the city of Denton support and encourage comfort, convenience and safety. Therefore all bleachers within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>
Setbacks	<p>Follow these recommended setbacks when installing bleachers near walls, streets and/or pedestrian pathways.</p> <p><b>Concrete Bleacher Pad (min. requirements)</b></p>  <p>The diagram shows a rectangular concrete pad with a stippled texture. In the center, there are several horizontal lines representing bleachers. The word 'Bleachers' is written in the middle of these lines. Below the bleachers, the words 'Bleacher Pad' are written. Dimensions are indicated: '48" min.' at the top, '24" min.' on the left, and '36" min.' at the bottom. The word 'Values' appears twice, once above and once to the left of the diagram.</p>

MISC





Amenity	Specification
Warranty	<p>A one-year minimum warranty is required on all new bleachers and installation thereof.</p>
Life Cycle Expectations	<p>Bleachers are anticipated to require replacement after 20 years of normal and ordinary usage</p>
Installation Surface	<p>Research on concrete as an installation surface for bleachers has shown to perform the best and to have the lowest regular maintenance requirements for installation methods. Surface mounts work well on concrete and are easy to install.</p>
Installation Notes	<p>Installation shall follow all manufacturer's specifications. All bleachers shall be mounted on a concrete slab. All mounting hardware shall be stainless steel. All bleachers shall be surface mount</p> <p>Bleachers shall be installed in a location and manner that spectators will not impede pedestrian and vehicular traffic flow in adjacent areas. All bleachers shall be placed on a reinforced concrete pad. All bleachers shall be centered on the pad with the length of the bleacher parallel to the length of the pad. If there is a non-flush obstruction at the front of the bleacher, bleacher shall either be placed flush to that obstruction or shall overhang it, so as not to present a safety hazard.</p> <p>Exception: bleachers on soccer fields will be placed on turf, no decomposed granite or concrete pads. This practice is in relation to the need to frequently move fields due to wear.</p>

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
MISC	Mounting Options	<p>Research has identified one option available for mounting bleachers and the definition is below. Surface mount is the preferred mounting option for the Denton park system.</p> <p><b>Surface Mount:</b> The metal flange is anchored to the ground with appropriate hardware. Tamper proof options are available for greater security.</p>

**Standard Options**

Bench Options

Four bleachers have been selected as the standard options for use in the Denton Parks System. Any and all substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.

		
	<b>Option 1</b>	<b>Option 2</b>
Manufacturer	BSN Sports	BSN Sports
Type	pedestrian amenity	pedestrian amenity
Product/ Catalog #	BEPG21	NB0521V
Color	Aluminum	Aluminum
Cost	\$794.99	\$5,449.99
Notes	21' Players Bench	Dimensions: 5 Row-21'L x 92"H x 109"D seats 70 Bleachers w/ vertical picket railing
		
	<b>Option 3</b>	<b>Option 4</b>
Manufacturer	BSN Sports	BSN Sports
Type	pedestrian amenity	pedestrian amenity
Product/ Catalog #	NB0315	NB0321
Color	Aluminum	Aluminum
Cost	\$1,569.99	\$1,844.99
Notes	Dimensions: 3 Row - 15'L x 30"H x 60"D seats 30	Dimensions: 3 Row - 21'L x 30"H x 60"D seats 42

# X.X DRINKING FOUNTAINS

## OVERVIEW

### Acronym/Abbreviation: DRFO

The design, development, preservation and enhancement of drinking fountains in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of drinking fountains is to provide a specific space and site furnishing for accessing safe drinking water within the parks system.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Features

Vandal Resistant  
Dual Purpose  
Activated by a low-weight, five pounds or less, push button operation mechanism.

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1	Linear Park		1
Community Park		1	Preserve		1
Neighborhood Park		1	Pocket Park		1
			Special Use Park		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Recreation Center		1	Community Center		1
			Indoor Sports Complex		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Bike Park		1	Amphitheater		1
Community Garden		1	Disc Golf		1
Sports Complex		1	Driving Range		1
Skate Park		1	Pavilion		1
Restrooms		1	Playgrounds		1
			Playscapes		1
			Sprayground		1
			Swimming Pool		1
			Tennis Courts		1
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Purpose Trail		PRN			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of drinking fountains must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	<b>Black:</b> All structural framework of drinking fountains shall be black.				



**REQUIRED SPECIFICATIONS****RECOMMENDED SPECIFICATIONS**

Amenity

Specification



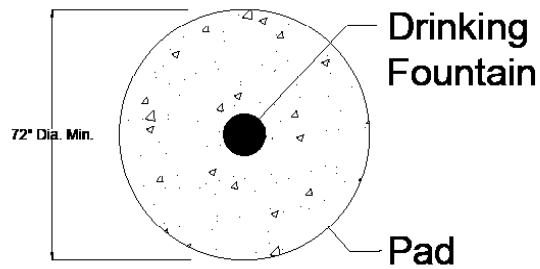
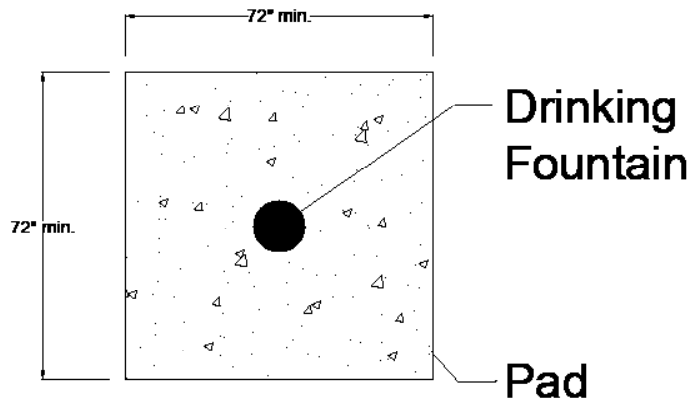
Aesthetics

Identity

Drinking fountains shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton as well as the overall perception of how DPARD and the city of Denton support and encourage comfort and safety. Therefore all drinking fountains within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.

Setbacks

Follow these recommended setbacks when installing drinking fountains on concrete pads.

**Drinking Fountain on Round Concrete Pad (min. requirements)****Drinking Fountain on Square Concrete Pad (min. requirements)**

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
MISC	Warranty	A one-year minimum warranty is required on all new drinking fountains and installation thereof.
	Life Cycle Expectations	Drinking fountains are anticipated to require replacement after 10 years of normal and ordinary usage.
	Installation Surface	Research on concrete as an installation surface for drinking fountains has shown to perform the best and to have the lowest regular maintenance requirements for installation methods. Surface mounts work well on concrete and are easy to install.
	Installation Notes	<p>Installation shall follow all manufacturer's specifications. Drinking fountains shall be mounted on a concrete slab unless wall mounted. All anchors and anchoring material (bolts, nuts, washers, etc.) Shall be stainless steel.</p> <p>All fountains shall be connected to sewer lines in accordance with the Uniform Plumbing Code. The incoming water lines shall have a ball type shut-off valve located off the slab in an approved valve box. The valve body shall be of bronze or stainless steel. The interior parts shall be the same type as the body. The outgoing waste line shall have a minimum 2" "Y" type strainer installed and placed in an approved valve box off the slab. Strainer will be positioned to allow easy access to strainer opening.</p>
	Mounting Options	<p>Research has identified options available for mounting drinking fountains and the definitions are below. Surface mount is the preferred mounting option for the Denton park system.</p> <p><b>Surface Mount:</b> The metal flange is anchored to the ground with appropriate hardware. Tamper proof options are available for greater security.</p> <p><b>Wall Mount:</b> Self explanatory.</p>
	Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

**Standard Options**

Options

Drinking fountains have been selected as the standard options for use in the Denton Parks System. Any substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.

\* All drinking fountains are planned to be replaced over the next ten years as they reach the end of their life cycles. The parks department was requested to ensure that fountains include dog bowls and bottle fillers where applicable.



	<b>Option 1</b>	<b>Option 2</b>
Manufacturer	MDF	MDF
Type	pedestrian amenity	pedestrian amenity
Product/ Catalog #	2440 SMSS W/Optional Pet Fountain and Bottle Filler	10155 SMSS Bottle Filler
Color	Textured Black or Pyrite	Textured Black or Pyrite
Cost	\$5230.00	\$4,103.00

# X.X GRILLS

## OVERVIEW

### Acronym/Abbreviation: GRIL

The design, development, preservation and enhancement of grills in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of grills is to provide a specific space and site furnishing for park users to cook within the park system.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed Open Space



Outdoor Facilities



Communication/wayfinding





Aesthetics

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		2	Preserve		1
Community Park		2	Special Use Park		1
Neighborhood Park		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Pavilions		1	Picnic Tables		1
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of drinking fountain must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Informational Signs		1+
			Mobile Applications		
Amenity	Specification				
Color	<b>Black:</b> All structural framework of grills shall be black.				
Identity	Grills shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton as well as the overall perception of how DPARD and the city of Denton support and encourage comfort and safety. Therefore all grills within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				



Aesthetics

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
Setbacks	Grill Mounted on Concrete Pad (min. requirements)	
Amenity	Specification	
MISC	<p><b>Warranty</b> A one-year minimum warranty is required on all grills and installation thereof.</p> <p><b>Life Cycle Expectations</b> Grills are anticipated to require replacement after 10 years of normal and ordinary usage.</p> <p><b>Installation Surface</b> Research on concrete as an installation surface for grills has shown to perform the best and to have the lowest regular maintenance requirements for installation methods. Surface mounts work well on concrete and are easy to install.</p> <p><b>Installation Notes</b> Installation shall follow all manufacturer's specifications. Grills shall be mounted on a concrete slab. All anchors and anchoring material (bolts, nuts, washers, etc.) shall be stainless steel anchors and anchoring material (bolts, nuts, washers, etc.) shall be stainless steel. Grills shall be installed in a location and manner to minimize the impact of odors, noise and fire in relation to adjacent uses. Grills must be installed at a minimum of 50 feet from the nearest playground and/or playscape. Grills must be installed at a minimum of 20 feet from the trunk of any tree.</p> <p><b>Mounting Options</b> Research has identified options available for mounting grills and the definitions are below. Surface mount is the preferred mounting option for the Denton park system.</p> <p><b>Surface Mount:</b> The metal flange is anchored to the ground with appropriate hardware. Tamper proof options are available for greater security.</p> <p><b>In-Ground Mount:</b> The rack is embedded into concrete surface</p> <p>All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p>	
	Hardware	

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
<b>Standard Options</b>		
Options	Two grills have been selected as the standard options for use in the Denton Parks System. Any and all substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.	
		
	<b>Option 1</b>	<b>Option 2</b>
Manufacturer	Dumor	Dumor
Type	pedestrian amenity	pedestrian amenity
Product/ Catalog #	21-00 Grill For Embedment	24-00 Dual Level Grill For Embedment
Color	Black	Black
Cost	\$	\$
Notes		

# X.X PICNIC TABLES

## OVERVIEW

### Acronym/Abbreviation: PICT

The design, development, preservation and enhancement of picnic tables in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of picnic tables is to provide a specific space and site furnishing for park users to sit, relax, and eat.

### Accessibility

Must be compliant with Americans with Disabilities act (ADA), Title 24

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





REQUIRED LOCATIONS			REQUIRED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		2			
Community Park		2			
Preserve		2			
Neighborhood Park		2			
Pocket Park		2			
Special Use		2			



Amenity	Reference	Min.	Amenity	Reference	Rec.
Swimming Pools		2	Spraygrounds		2
Disc Golf Course		2	Community Gardens		2
Driving Range		2	Playgrounds		1
Playgrounds		2	Playscapes		1+
Pavilions		2	Plaza		1+
			Pavilions		4
			Bike Park		2+
			Dog Park		2+
			Skate Park		2+



REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of drinking fountain must receive prior written authorization from the DPARD.	The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Reference	Min.	Amenity	Reference	Rec.
			<b>Informational Signs</b>		
			Mobile Applications		1+
			Memorial Markers		1+
			Donor/Naming Rights Signs		1+
			Reservations		1+



Amenity	Reference	Min.	Amenity	Reference	Rec.
			Grills		1+

**REQUIRED SPECIFICATIONS**

**RECOMMENDED SPECIFICATIONS**

Amenity

Specification

Color

**Black:** All structural framework of picnic tables shall be black. Tables/benches may be black  
**Green:** Tables/benches may be green

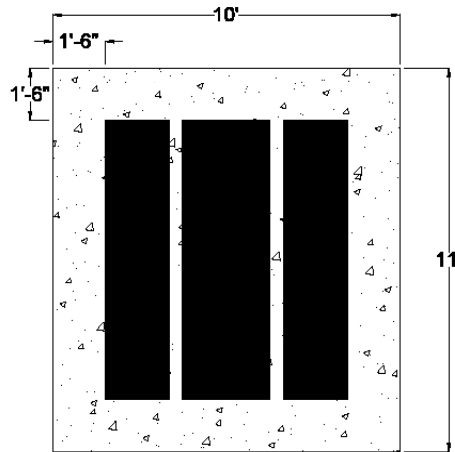
Identity

Picnic tables shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton as well as the overall perception of how DPARD and the city of Denton support and encourage comfort and safety. Therefore all picnic tables within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.

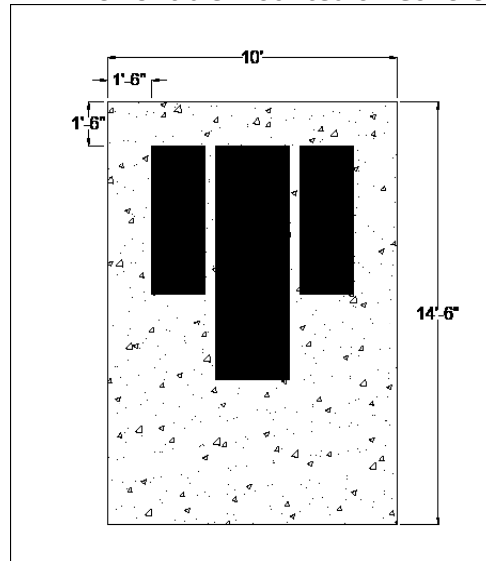
Setbacks

Follow these recommended dimensions when installing picnic tables on decomposed granite or on concrete pads.

**Picnic Table Mounted on Concrete Pad (min. requirements)**



**ADA Picnic Table Mounted on Concrete Pad (min. requirements)**





Aesthetics



Aesthetics

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
MISC	Maintenance Options	Park patrons are much more inclined to use picnic tables when they can trust that the picnic tables are being properly maintained. By keeping the picnic tables in ready-to-use condition, park users will recognize the commitment DPARD has for the park and the community.
	Warranty	A one-year minimum warranty is required on all picnic tables and installation thereof.
	Life Cycle Expectations	Picnic tables are anticipated to require replacement after 15 years of normal and ordinary usage.
	Installation Notes	All picnic tables shall be installed in accordance with manufacturer's recommendations. All picnic tables shall be placed on decomposed granite or on a reinforced concrete pad. All picnic tables shall be centered on the pad with the length of the bench parallel to the length of the pad. All anchors and anchoring material (bolts, nuts, washers, etc.) shall be stainless steel. Tables mounted on decomposed granite will be mounted to concrete footings made from a minimum of a 9" sonitube for each mounting point. Picnic tables shall be installed in a location and manner to minimize the impact of odors, noise and fire in relation to adjacent uses.
	Mounting Options	Research has identified two options available for mounting picnic tables and their definitions are below. Surface mount and/or in-ground mount are the preferred mounting options for the Denton park system.  <b>Surface Mount:</b> The metal flange is anchored to the ground with appropriate hardware. Tamper proof options are available for greater security. <b>In-Ground Mount:</b> The rack is embedded into concrete surface
	Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS
Amenity	Specification	
<b>Standard Options</b>		
Options	Two picnic tables have been selected as the standard options for use in the Denton Parks System. Any and all substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.	
		
	<b>Option 1</b>	<b>Option 2</b>
Manufacturer	Dumor	Webcoat
Type	pedestrian amenity	pedestrian amenity
Product/ Catalog #	Table Set 443-558-1	Ultra Leisure Rectangle Portable Table 6 Ft
Color	Black	Green w/ Black Frame
Cost	\$4,060.00	\$743.00
Notes		

# X.X PLANTERS

## OVERVIEW

### Acronym/Abbreviation: PLNT

The design, development, preservation and enhancement of planters in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of planters are to provide a specific space and site furnishing to enhance aesthetics.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



REQUIRED LOCATIONS		RECOMMENDED LOCATIONS	
This site furnishing shall be located at each of the following locations in the quantities required.		This site furnishing shall be located at each of the following locations in the quantities recommended.	
Amenity	Reference Min.	Amenity	Reference Rec.
City Park Community Park Preserve Neighborhood Park Pocket Park Special Use	PLACEHOLDER		
REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS	
The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of planters must receive prior written authorization from the DPARD.		The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.	
Amenity	Specification		
Identity	The aesthetics, function, availability and maintenance of planters greatly contribute to the overall perception of how DPARD and the city of Denton support and encourage comfort and safety. Therefore all seat walls within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.		
Amenity	Specification		
Maintenance	<p>Maintenance of site furnishings shall include the following:</p> <p><b>Structure</b> Inspect on a regular schedule for structural integrity, loose or missing hardware and repair/replace as necessary. Planters shall be clean, operational/functional and free of rust. All surfaces must be free of protrusions, exposed sharp edges and/or pointed corners.</p> <p><b>Aesthetics</b> The aesthetics of planters shall be inspected for graffiti and/or the need of repairs in relation to coatings/paint including but not limited to fading, chipping, cracks, scratches and any other form of damage.</p>		



MISC

# X.X SEAT WALLS

## OVERVIEW

### Acronym/Abbreviation: SWLL

The design, development, preservation and enhancement of seat walls in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

The primary function of seat walls is to provide a specific space and site furnishing for park users to sit where there are no designated benched or picnic tables nearby.

- Seating
- Containing Plantings
- Acting as Physical Barriers
- Providing Transitional Level Changes

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Considerations

Seat Walls, where applicable, shall be used to encourage park users to slow down, rest, socialize and participate in passive recreational activities. By their nature, seat walls contribute to the spatial definition and perception of each park and facility within. The effect seat walls have on perception also greatly influences experience, safety and usage.

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/ control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities maximize accessibility, control
    - 2a) separated activities minimize conflicts

- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This site furnishing shall be located at each of the following locations in the quantities required.			This site furnishing shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park Community Park Preserve Neighborhood Park Pocket Park Special Use		<b>PLACEHOLDER</b>			



Developed  
Open  
Space

## REQUIRED SPECIFICATIONS

The following are specifications are required for this classification of types of site furnishings in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of seat walls must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of types of site furnishings to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.



Aesthetics

Amenity	Specification
Identity	<p>The aesthetics, function, availability and maintenance of planters greatly contribute to the overall perception of how DPARD and the city of Denton support and encourage comfort and safety. Therefore all planters within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p> <p>Note: Developed open spaces are pedestrian friendly environments and require places for people to sit.</p>
Design	<p><b>Height:</b> 16-24" 18" Preferred</p> <p><b>Width:</b> 16-24" 24" Preferred (more accommodating to a broader population of users) (Dines 1998)</p>
Design Requirements	<p>Surfaces shall be smooth to avoid abrasions and snagging of clothing</p> <p>Material finishes shall respect the design vocabulary of the immediate park as well as the park system</p> <p>All seat walls shall require footings</p> <p>Top of seat walls shall slope back from face to drain for better appearance and anatomical fit.</p> <p>Masonry block walls shall be damp proofed if containing irrigated plantings</p> <p>Weep holes shall be provided</p>
Material	<p>Concrete Mortared Brick Mortared Stone Brick Veneer Stone Veneer Granite Veneer</p>





# Section 8: **POLLUTION CONTROL**

This section outlines the required and recommended specifications for pollution control within the City of Denton. The following are the definitions of the items that can be found in the following pages.

## **RECEPTACLES**

The primary function of receptacles is to provide a furnishings that allows for the containment of waste items.

## **REVETMENTS**

The primary function of revetments is to provide screening where applicable.

## **DOG STATIONS**

The primary function of dog stations is to provide a specific space and site furnishing for disposing of dog waste.

## **ADDITIONAL CONSIDERATIONS**

The function of the additional considerations are standards that should be thought about when implementing new facilities or furnishings in the City of Denton.

# X.X RECEPTACLES

## OVERVIEW

### Acronym/Abbreviation: RCPT

The design, development, preservation and enhancement of trash receptacles in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of receptacles is to provide a furnishings that allows for the containment of waste items.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Considerations

All Trash Receptacles shall be in compliance with the most current version of the City of Denton Site Design Criteria Manual (Section 13).

Trash receptacles shall be installed in all private and public parks, and along all trails for collection of trash. Sufficient numbers of receptacles shall be provided to serve the users of the parks and trails.

Trash collection shall not occur within 100 feet of residential property.

When feasible, trash receptacles shall be screened.

Trash & recycling receptacles shall be installed in a location and manner that will not impede pedestrian traffic flow in adjacent areas.

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This amenity shall be located at each of the following locations in the quantities required.			This amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park*		2			
Community Park*		2			
Preserve*		2			
Neighborhood Park*		2			
Pocket Park*		2			
Special Use*		2			
<i>*There should be 1 trash receptacle every 1/2 acre</i>					
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amphitheater		2			
Swimming Pool		2			
Community Garden		2			
Disc Golf Course		2			
Challenge Spot		2			
Driving Range		2			
Basketball Court		2			
Multi-Purpose Court		2			
Tennis Court		2			
Volleyball Court		2			
Baseball Fields (Adult)		2			
Baseball Field (Youth)		2			
Football Field		2			
Rugby Field		2			
Soccer Field (Adult)		2			
Soccer Field (Youth)		2			
Softball Field (Adult)		2			
Softball Field (Youth)		2			
Pavilions		2			
Playgrounds		2			
Putting Greens		2			
Shade structures		2			
Sport Complex		2			
Bike Park		2			
Dog Park		2			
Skate Park		2			



## REQUIRED SPECIFICATIONS

The following are specifications are required for this classification of types of pollution control in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of receptacles must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of types of pollution control to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

Amenity	Specification
<div data-bbox="121 535 235 640" data-label="Image"> </div> <p data-bbox="113 651 235 682">Aesthetics</p>	<p data-bbox="604 535 1531 598"><b>Black:</b> All structural framework of trash receptacles shall be black. <b>Blue:</b> All structural framework of recycling receptacles shall be blue.</p> <p data-bbox="604 661 1531 871">Receptacles shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all receptacles within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p> <p data-bbox="604 913 1531 976">All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p> <p data-bbox="604 1008 1531 1071">Follow these recommended dimensions when installing receptacles on decomposed granite or on concrete pads.</p> <p data-bbox="604 1102 1177 1123">Single Receptacle on Concrete Pad (min. requirements)</p> <div data-bbox="787 1155 1274 1417" data-label="Diagram"> </div> <p data-bbox="604 1470 1274 1501">Dual Receptacle on Concrete Pad (min. requirements)</p> <div data-bbox="698 1522 1274 1785" data-label="Diagram"> </div>

REQUIRED SPECIFICATIONS		RECOMMENDED SPECIFICATIONS										
Amenity	Specification											
MISC	Maintenance	Park patrons are much more inclined to use trash & recycling receptacles when they are convenient and are being properly maintained. By keeping the trash & recycling receptacles in ready-to-use condition, park users will recognize the commitment DPARD has for the park and the community.										
	Mounting Options	Research has identified two options available for installing trash & recycling receptacles, on decomposed granite or on a concrete surface.										
	Installation Notes	All receptacles shall be installed in accordance with manufacturer's recommendations. All receptacles shall be placed on decomposed granite or on a reinforced concrete pad. All receptacles shall be centered on the pad. Placement of the receptacles shall not inhibit the monitoring or emptying of the contents. All anchors and anchoring material (bolts, nuts, washers, etc.) Shall be stainless steel. All receptacles shall be installed in a location and manner to minimize the impact of odors, noise and fire in relation to adjacent uses.										
	Warranty	A one-year minimum warranty is required on all new receptacles and installation thereof.  Receptacles are anticipated to require replacement after an average number of years of normal and ordinary usage. Those numbers are directly related to the quality, usage and environmental factors surrounding each receptacle.										
	Life Cycle Expectations	<p><b>Life Cycle of type of trash receptacles</b></p> <table> <tr> <td>55 Gal Drums</td> <td>3 yr</td> </tr> <tr> <td>Web Coat</td> <td>15 yr</td> </tr> <tr> <td>Doty Cans</td> <td>20 yr</td> </tr> <tr> <td>Aggregate</td> <td>25 yr</td> </tr> <tr> <td>Big Belly</td> <td>15 yr</td> </tr> </table>	55 Gal Drums	3 yr	Web Coat	15 yr	Doty Cans	20 yr	Aggregate	25 yr	Big Belly	15 yr
55 Gal Drums	3 yr											
Web Coat	15 yr											
Doty Cans	20 yr											
Aggregate	25 yr											
Big Belly	15 yr											

**Standard Options**

Options	Two receptacles have been selected as the standard options for use in the Denton Parks System. Any and all substitutions must be approved in writing from the Denton Parks and Recreation Department prior to installation.	
		
Manufacturer	Doty & Sons	pedestrian amenity
Type	RP-2844	TR32PERF
Product/ Catalog #		
Color	EX1 Gray / 10" X 7" Recycle & Trash sign installed	Black
Cost	\$800	\$Waiting on Quote
Notes	Life Cycle Expectations: 25 years	Life Cycle Expectations: 15 years

# X.X REVETMENTS

## OVERVIEW

### Acronym/Abbreviation: RVMT

The design, development, preservation and enhancement of revetments in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of revetments is to provide screening where applicable.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Considerations

Trash collection and compaction may not occur within 100 feet of residential property and shall be screened from public view.

**Note:** All Revetments shall be in compliance with the most current version of the City of Denton Site Design Criteria Manual (Section 13).

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This amenity shall be located at each of the following locations in the quantities required.			This amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Preserve		1			
Neighborhood Park		1			
Pocket Park		1			
Special Use		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Center		1+			
Gymnastic Center		1+			
Indoor Ice Rink		1+			
Sports Complex		1+			
Natatorium		1+			
Nature Center		1+			
Recreation Center		1+			
Senior Center		1+			
Water Park		1+			
Parking Lot		1+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of types of pollution control in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of revetments must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of pollution control to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	<b>Black:</b> Bollards and gate framework of revetments shall be black				
Identity	Revetments shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all revetments within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Layout	<p><b>Dumpster Pad:</b> pads must be positioned to allow trash truck to approach head on. Ensure turning radius, angle of approach and length are adequate for trash truck.</p> <p>Dumpster Pad shall be positioned perpendicular (long axis) to vehicular access.</p>				
Setbacks	Revetments shall be located a minimum of 50' away from all indoor/outdoor facilities to minimize offensive odors.				

# X.X DOG WASTE STATIONS

## OVERVIEW

### Acronym/Abbreviation: DWST

The design, development, preservation and enhancement of dog waste stations in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of dog stations is to provide a specific space and site furnishing for disposing of dog waste.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





Developed  
Open  
Space

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This amenity shall be located at each of the following locations in the quantities required.			This amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1+			
Community Park		1+			
Preserve		1+			
Neighborhood Park		1+			
Pocket Park		1+			
Special Use		1+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications are required for this classification of types of pollution control in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of dog waste stations must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of pollution control to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	<p><b>Black:</b> Structural framework and receptacle of waste stations may be black. Signage and receptacle may be black.</p> <p><b>Green:</b> Signage and receptacle may be green.</p> <p><b>White:</b> Lettering shall be white.</p>				
Identity	<p>Dog waste stations shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all dog waste stations within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>				
Hardware	<p>All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p>				



Aesthetics

# ADDITIONAL CONSIDERATIONS

The function of the additional considerations are standards that should be thought about when implementing new facilities or furnishings in the City of Denton.

## Noise Pollution

Placement of indoor/outdoor facilities shall be determined in relationship to the acoustic disturbance that potential activities within said facility may produce. Additional methods may be required to mitigate noise pollution.

## Light Pollution

Surrounding land uses and adjacent indoor/outdoor facilities must be considered for potential impacts from internal/ external lighting.

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# Section 9: RECREATIONAL SUPPORT

This section outlines the required and recommended specifications for recreational support within the City of Denton. The following are the definitions of the items that can be found in the following pages.

## ELECTRICAL OUTLETS

The primary function of electrical outlets is to connect to the electrical grid which in turn supports active and passive recreational activities on and around indoor/outdoor facilities as well as on/near site furnishings.

## SCOREBOARDS

The primary function of scoreboards is to support active recreational activities on courts and fields by publicly displaying the score, measuring time and displaying statistics.

## OUTDOOR EXERCISE EQUIPMENT

The primary function of exercise equipment is to support active recreational activities in developed open space and along trails. The positive effects include improving strength, balance, and flexibility.

## BASKETBALL GOALS

The primary function of basketball goals is to support active recreational activities in developed open space. The positive effects of playing basketball include improving strength, balance, and flexibility.

## FOOTBALL GOALS

The primary function of football goals is to support active recreational activities on football and/or multi-purpose fields in developed open space. The positive effects of playing football includes improving strength, balance, and flexibility.

## HOCKEY GOALS

The primary function of hockey goals is to support active recreational activities on hockey rinks and multi-purpose courts in developed open space. The positive effects of in-line hockey includes improving strength, balance, and flexibility.

## RUGBY GOALS

The primary function of rugby goals are to provide support active recreational activities on rugby fields and/or multi-purpose fields in developed open space.

## SOCCER GOALS

The primary function of soccer goals is to support active recreational activities on soccer fields and multi-purpose fields in developed open space. The positive effects of playing soccer include improving strength, balance, and flexibility.

## BACKSTOPS

The primary function of back stops is to support active recreational activities such as baseball, softball, kickball etc. on turf areas and multi-purpose fields in developed open space. The positive effects of playing these sports include improving strength, balance, and flexibility.

## DISC GOLF GOAL

[INSERT FUNCTION HERE]

## DISC GOLF T PADS

[INSERT FUNCTION HERE]

# X.X ELECTRICAL OUTLETS

## OVERVIEW

### Acronym/Abbreviation: ELCO

The design, development, preservation and enhancement of electrical outlets in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of electrical outlets is to connect to the electrical grid which in turn supports active and passive recreational activities on and around indoor/outdoor facilities as well as on/near site furnishings.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**



Developed  
Open  
Space



Outdoor  
Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Park		1			
Community Park		1			
Preserve		1			
Neighborhood Park		1			
Pocket Park		1			
Special Use		1			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amphitheater		1+			
Swimming Pool		1+			
Community Garden		1+			
Driving Range		1+			
Basketball Court		1+			
Multi-Purpose Court		1+			
Volleyball Court		1+			
Baseball Fields (Adult)		1+			
Baseball Field (Youth)		1+			
Football Field		1+			
Rugby Field		1+			
Soccer Field (Adult)		1+			
Soccer Field (Youth)		1+			
Softball Field (Adult)		1+			
Softball Field (Youth)		1+			
Pavilions		1+			
Putting Greens		1+			
Shade structures		1+			
Sport Complex		1+			
Bike Park		1+			
Dog Park		1+			
Skate Park		1+			

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of electrical outlets must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>



Aesthetics

Amenity	Specification
Color	<b>Black:</b> Weatherproof covers shall be powder coated black if a finish is applied
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.

**Standard Options**

Options



**Weatherproof Cover**

Type: Recreational Support

Item#: 14H189  
Mfr. Model #: WP8V  
UNSPSC#: 39121303  
Cost: \$17.26  
Notes:



**Self Test Tamper Resistant Industrial Grade GFCI**

Type: Recreational Support

Item #: G5362  
UPC Code: 078477898345  
Notes:



# X.X SCOREBOARDS

## OVERVIEW

### Acronym/Abbreviation: SCBD

The design, development, preservation and enhancement of scoreboards in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of scoreboards is to support active recreational activities on courts and fields by publicly displaying the score, measuring time and displaying statistics.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility, control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Outdoor Facilities

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Baseball Fields (Adult)		1+			
Baseball Field (Youth)		1+			
Football Field		1+			
Rugby Field		1+			
Soccer Field (Adult)		1+			
Soccer Field (Youth)		1+			
Softball Field (Adult)		1+			
Softball Field (Youth)		1+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of scoreboards must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	Black: The structural framework of scoreboards shall be powder coated black if a finish is applied				
Identity	The aesthetics, function, availability and maintenance of scoreboards greatly contribute to the overall perception of how DPARD and the city of Denton support recreational activities. Therefore all scoreboards within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				



Aesthetics

# X.X OUTDOOR EXERCISE EQUIPMENT

## OVERVIEW

### Acronym/Abbreviation: OEE

The design, development, preservation and enhancement of outdoor exercise equipment in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of exercise equipment is to support active recreational activities in developed open space and along trails. The positive effects include improving strength, balance, and flexibility.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**



Developed  
Open  
space



Developed  
Open  
space



Aesthetics

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
This recreational support amenity shall be located at each of the following locations in the quantities required.			This recreational support amenity shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Parks		1+
			Neighborhood Park		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of outdoor exercise equipment must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must receive prior written authorization from the DPARD.		
Amenity	Specification				
Color	<b>Black:</b> Outdoor exercise equipment may be powder coated black. <b>Blue:</b> Outdoor exercise equipment may be powder coated blue. <b>Green:</b> Outdoor exercise equipment may be powder coated green. <b>Orange:</b> Outdoor exercise equipment may be powder coated orange. <b>Pink:</b> Outdoor exercise equipment may be powder coated pink. <b>Purple:</b> Outdoor exercise equipment may be powder coated purple. <b>Red:</b> Outdoor exercise equipment may be powder coated red. <b>Yellow:</b> Outdoor exercise equipment may be powder coated yellow.				
Identity	The aesthetics, function, availability and maintenance of outdoor exercise equipment greatly contribute to the overall perception of how DPARD and the city of Denton support recreational activities. Therefore all outdoor exercise equipment within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				

# X.X BASKETBALL GOALS

## OVERVIEW

### Acronym/Abbreviation: BBGL

The design, development, preservation and enhancement of basketball goals in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of basketball goals is to support active recreational activities in developed open space. The positive effects of playing basketball include improving strength, balance, and flexibility.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**



Indoor Facilities



Outdoor Facilities



Aesthetics

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Recreation Center Teen Center		1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Basketball Courts Multi-Purpose Court		1+ 1+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of basketball goals must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	<b>Black:</b> Basketball goals equipment may be powder coated black. <b>Blue:</b> Basketball goals equipment may be powder coated blue. <b>Green:</b> Basketball goals equipment may be powder coated green. <b>Orange:</b> Basketball goals equipment may be powder coated orange. Rims shall be powder coated orange. <b>Pink:</b> Basketball goals equipment may be powder coated pink. <b>Purple:</b> Basketball goals equipment may be powder coated purple. <b>Red:</b> Basketball goals equipment may be powder coated red. <b>Yellow:</b> Basketball goals equipment may be powder coated yellow. <b>White:</b> Backboards shall be powder coated white, net shall be white.				
Identity	The aesthetics, function, availability and maintenance of basketball goals greatly contribute to the overall perception of how DPARD and the city of Denton support recreational activities. Therefore all basketball goals within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				

## REQUIRED SPECIFICATIONS

## RECOMMENDED SPECIFICATIONS

Amenity

Specification

### Standard Options



Aesthetics

Options



Manufacturer: BSN

Type: Recreational Support

Product/Catalog #: 20020077

Item: Bison Mega Duty Basketball Unit

Cost: \$3,097.99

Notes: Steel Rectangular Backboard 42" x 60"

# X.X FOOTBALL GOALS

## OVERVIEW

### Acronym/Abbreviation: FBGL

The design, development, preservation and enhancement of football goals in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of football goals is to support active recreational activities on football and/or multi-purpose fields in developed open space. The positive effects of playing football includes improving strength, balance, and flexibility.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility,  
control
  - 2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility





Indoor Facilities



Outdoor Facilities



Aesthetics

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Recreation Center Teen Center		1+ 1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Football Fields		1+			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of football goals must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	<b>Yellow:</b> Football goals may be powder coated yellow. <b>White:</b> Football goals may be powder coated white.				
Identity	The aesthetics, function, availability and maintenance of football goals greatly contribute to the overall perception of how DPARD and the city of Denton support recreational activities. Therefore all outdoor exercise equipment within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				

# X.X HOCKEY GOALS

## OVERVIEW

### Acronym/Abbreviation: HKGL

The design, development, preservation and enhancement of hockey goals in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of hockey goals is to support active recreational activities on hockey rinks and multi-purpose courts in developed open space. The positive effects of in-line hockey includes improving strength, balance, and flexibility.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur Simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Football Fields		1+	Multi-purpose Field		2+
			Rugby Field		2+



Outdoor Facilities

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of hockey goals must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
Amenity	Specification
Color	<p><b>Yellow:</b> Hockey goals may be powder coated yellow.  <b>White:</b> Hockey goals may be powder coated white.</p>
Identity	<p>The aesthetics, function, availability and maintenance of hockey goals greatly contribute to the overall perception of how DPARD and the city of Denton support recreational activities. Therefore all hockey goals within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>



Aesthetics

# X.X SOCCER GOALS

## OVERVIEW

### Acronym/Abbreviation: SCGL

The design, development, preservation and enhancement of soccer goals in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of soccer goals is to support active recreational activities on soccer fields and multi-purpose fields in developed open space. The positive effects of playing soccer include improving strength, balance, and flexibility.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
Soccer Field (Adult)		2	Multi-purpose Field		2
Soccer Field (Youth)		2			



Outdoor Facilities

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of soccer goals must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
Amenity	Specification
Color	<p><b>White:</b> Soccer goals shall be painted white, net shall be white</p>
Identity	<p>The aesthetics, function, availability and maintenance of soccer goals greatly contribute to the overall perception of how DPARD and the city of Denton support recreational activities. Therefore all soccer goals within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>



Aesthetics

# X.X BACK STOPS

## OVERVIEW

### Acronym/Abbreviation: BSTP

The design, development, preservation and enhancement of backstops in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

The primary function of back stops is to support active recreational activities such as baseball, softball, kickball etc. on turf areas and multi-purpose fields in developed open space. The positive effects of playing these sports include improving strength, balance, and flexibility.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Muti-purpose Field		2



Outdoor Facilities

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of backstops must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
Amenity	Specification
<p>Color</p> <p>Identity</p>	<p><b>Black:</b> Chain link fencing shall be black vinyl coated</p> <p>The aesthetics, function, availability and maintenance of backstops greatly contribute to the overall perception of how DPARD and the city of Denton support recreational activities. Therefore all backstops within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>



Aesthetics

# X.X DISC GOLF GOALS

## OVERVIEW

**Acronym/Abbreviation: XX**

The design, development, preservation and enhancement of disc golf goals in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities maximize accessibility, control
    - 2a) separated activities minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.



<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of disc golf goals must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<b>Amenity</b>	<b>Specification</b>

# X.X DISC GOLF T'S

## OVERVIEW

Acronym/Abbreviation: **XX**

The design, development, preservation and enhancement of disc golf T's in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Recreational support shall be located at each of the following locations in the quantities required.			Recreational support shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.

<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following specifications are required for this classification of types of recreational support in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of disc golf T's must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of types of recreational support to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<b>Amenity</b>	<b>Specification</b>



# Section 10: SAFETY & SECURITY

This section outlines the required and recommended specifications for safety and security within the City of Denton. The following are the definitions of the items that can be found in the following pages.

## LIGHTING

### BALL FIELD LIGHTING

Ball field Lighting is a type of site light fixture that is commonly used to illuminate large recreational areas from a very high mounting height for sports courts and fields.

### HIGH MAST LIGHTING

High-Mast Lighting is a type of site light fixture that is commonly used to illuminate large areas from a very high mounting height for storage, transportation, and pedestrian use and safety.

### MID MAST LIGHTING

[INSERT FUNCTION HERE]

### LOW MAST LIGHTING

[INSERT FUNCTION HERE]

### CANOPY LIGHTING

[INSERT FUNCTION HERE]

### SECURITY LIGHTING

[INSERT FUNCTION HERE]

### TRAIL LIGHTING

Trail lighting that is well placed, properly installed and frequently maintained can improve visibility, increase overall trail access and convenience and give trail users a sense of security while passing through at night.

### ACCENT LIGHTING

Accent lighting that is well placed, properly installed and frequently maintained can improve visibility, increase overall convenience, enhance aesthetics and give users a sense of security while passing through at night.

# PHYSICAL BARRIERS

## BOLLARDS

Bollards shall be used to prevent vehicles from accessing pedestrian pathways and/or restricted / unsafe areas within the park system. They are very effective in reducing accidents in vehicular/pedestrian conflict zones. The quantity and density of bollards shall be determined by DPARD on a case by case basis.

## FENCING

[INSERT FUNCTION HERE]

## PRIVACY WALLS

[INSERT FUNCTION HERE]

## RETAINING WALL

[INSERT FUNCTION HERE]

# ADDITIONAL CONSIDERATIONS

## TREE GUARDS

Tree guards, when appropriate, shall be placed in more urban environments of the park system. When properly installed they can increase safety, enhance aesthetics and give pedestrians and cyclists a sense of security while traveling along pedestrian/cyclist corridors. Tree guards are typically utilized as an aesthetic means to protect young trees.

## TREE GRATES

Tree grates, when appropriate, shall be placed in more urban environments of the park system. When properly installed they can increase safety, enhance aesthetics and give pedestrians and cyclists a sense of security while traveling along pedestrian/cyclist corridors.

## TREE PIT GUARDS

Tree pit guards, when appropriate, shall be placed in tree pits throughout the more urban environments of the city. When properly installed they can increase safety, enhance aesthetics and give pedestrians and cyclists a sense of security while traveling along pedestrian/cyclist corridors.

## CROSSWALKS

Allow pedestrians to conveniently and safely cross vehicular circulation zones. The absence of crosswalks has the potential to increase the level of vehicular pedestrian conflict within vehicular circulation zones. Providing crosswalks in appropriate areas increases the level of service DPARD is able to offer the residents of Denton.

## SECURITY CAMERAS

[INSERT FUNCTION HERE]

# LIGHTING

Strategically placed lighting is truly one of the most important safety features to incorporate into both developed and undeveloped open space. Lighting (including accent lighting) can be incorporated in unique ways that roll back the darkness, highlight focal points and create both safe and aesthetically pleasing environments.

All lighting must comply with the city of Denton lighting ordinance as well as these standards and guidelines. Exterior lighting (which must be approved by DPARD) shall be limited to areas within the portion of open space being developed (unless otherwise approved in writing by DPARD). In addition, DPARD approval is required prior to changing or adding exterior lighting within any developed and/or undeveloped open space under the purview of DPARD. In cases of stakeholder and/or public input related to lighting requests, DPARD will analyze and review conditions of visibility, potential locations and quantity of light fixtures needed to resolve the issues of visibility.

Lighting fixtures shall be detailed, sized and proportioned appropriately for the use and unified aesthetic goal of the DPARD system.

Lighting shall be unobtrusive and shall be as small in size as is reasonably practical.

Lighting fixtures shall be of high quality materials and workmanship and be in scale and style with the facility and/or parcel of open space.

High pressure sodium and mercury vapor lights are prohibited.

All new lighting shall be LED, without exception. All lighting being replaced due to damage/vandalism and/or end of life cycle shall be replaced with LED lighting, without exception.

Colored lenses are not permissible.

Lighting shall be installed in a manner that shall not produce glare, direct illumination across a property line, or cause unnecessary light spill, distraction or nuisance and must not interfere or detract from the privacy or use and/or enjoyment of adjacent property, all as determined at the sole discretion of DPARD.

Lighting for vehicular/pedestrian circulation routes shall be directed toward the ground.

# X.X BALL FIELD LIGHTING

## OVERVIEW

### Acronym/Abbreviation: BFLT

The design, development, preservation and enhancement of ball field lighting in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Ball field Lighting is a type of site light fixture that is commonly used to illuminate large recreational areas from a very high mounting height for sports courts and fields.

### Compliance

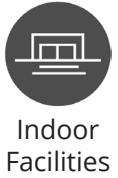
Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Rink		1+
			Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Water Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Baseball Field ( Adult)		1+	Amphitheater		1+
Baseball Field (Youth)		1+	Driving Range		1+
Football Field		1+	Tennis Courts		1+
Multi-Purpose Field		1+	Sports Complex		1+
Rugby Field		1+	Dog Park		1+
Soccer Field (Adult)		1+	Skate Park		1+
Soccer Field (Youth)		1+	Bike Park		1+
Softball Field (Adult)		1+			
Softball Field (Youth)		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Mountain Bike Trails		1+



<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of ball field lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<b>Amenity</b>	<b>Specification</b>
Color	High mast poles shall be galvanized, stainless steel or aluminum. Painted poles are prohibited.
Identity	Ball field lighting shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore ball field within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.
<b>Amenity</b>	<b>Specification</b>
Installation Notes	All ball field lights shall be installed in accordance with manufacturer's recommendations.
Warranty	A one-year minimum warranty is required.
Life Cycle Expectations	Ball field lights are anticipated to require replacement after 20 years of normal and ordinary usage.



Aesthetics

MISC

# X.X HIGH MAST LIGHTING

## OVERVIEW

### Acronym/Abbreviation: HMLT

The design, development, preservation and enhancement of high mast lighting in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

High-Mast Lighting is a type of site light fixture that is commonly used to illuminate large areas from a very high mounting height for storage, transportation, and pedestrian use and safety.

### Compliance

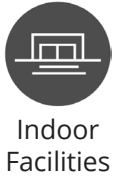
Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Rink		1+
			Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Water Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
Baseball Field (Adult)		9	Amphitheater		1+
Baseball Field (Youth)		9	Swimming Pools		1+
Soccer Field (Adult)		4	Spraygrounds		1+
Soccer Field (Youth)		4	Driving Range		1+
Softball Field (Adult)		6	Tennis Courts		1+
Softball Field (Youth)		6	Sports Complex		1+
			Dog Park		1+
			Skate Park		1+
			Bike Park		1+
			Football Field		1+
			Multi-Purpose Field		1+
			Parking Lot		1+
			Rugby Field		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Mountain Bike Trails		1+

<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of high mast lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<b>Amenity</b>	<b>Specification</b>
Color	High mast poles shall be galvanized, stainless steel or aluminum. Painted poles are prohibited.
Identity	High Mast lighting shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all high mast lighting within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.
<b>Amenity</b>	<b>Specification</b>
Installation Notes	All high mast lighting shall be installed in accordance with manufacturer's recommendations.
Warranty	A one-year minimum warranty is required.
Life Cycle Expectations	High mast lights are anticipated to require replacement after 20 years of normal and ordinary usage.



Aesthetics

MISC

# X.X MID MAST LIGHTING

## OVERVIEW

### Acronym/Abbreviation: MMLT

The design, development, preservation and enhancement of mid mast lighting in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Rink		1+
			Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Water Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Swimming Pools		1+
			Spraygrounds		1+
			Community Gardens		1+
			Driving Range		1+
			Tennis Courts		1+
			Sports Complex		1+
			Dog Park		1+
			Skate Park		1+
			Bike Park		1+
			Basketball Court		1+
			Multi-Purpose Court		1+
			Volleyball Court		1+
			Baseball Field (Adult)		1+
			Baseball Field (Youth)		1+
			Football Field		1+
			Multi-Purpose Field		1+
			Parking Lot		1+
			Rugby Field		1+
			Soccer Field (Adult)		1+
			Soccer Field (Youth)		1+
			Softball Field (Adult)		1+
			Softball Field (Youth)		1+
			Putting Green		1+
			Playground		1+
			Pavilion		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Mountain Bike Trails		1+



Developed  
Open  
Space



Indoor  
Facilities



Outdoor  
Facilities



Circulation

<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of mid mast lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<b>Amenity</b>	<b>Specification</b>
Color	Mid mast poles shall be galvanized, stainless steel or aluminum. Painted poles are prohibited.
Identity	Mid mast lighting shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all mid mast lighting within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.
<b>Amenity</b>	<b>Specification</b>
Installation Notes	All mid mast lighting shall be installed in accordance with manufacturer's recommendations.
Warranty	A one-year minimum warranty is required.
Life Cycle Expectations	Mid mast lights are anticipated to require replacement after 20 years of normal and ordinary usage.



Aesthetics

MISC

# X.X LOW MAST LIGHTING

## OVERVIEW

### Acronym/Abbreviation: LMLT

The design, development, preservation and enhancement of low mast lighting in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Rink		1+
			Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Water Park		1+
			Senior Center		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Swimming Pools		1+
			Spraygrounds		1+
			Community Gardens		1+
			Driving Range		1+
			Tennis Courts		1+
			Sports Complex		1+
			Dog Park		1+
			Skate Park		1+
			Bike Park		1+
			Basketball Court		1+
			Multi-Purpose Court		1+
			Volleyball Court		1+
			Baseball Field (Adult)		1+
			Baseball Field (Youth)		1+
			Football Field		1+
			Multi-Purpose Field		1+
			Parking Lot		1+
			Rugby Field		1+
			Soccer Field (Adult)		1+
			Soccer Field (Youth)		1+
			Softball Field (Adult)		1+
			Softball Field (Youth)		1+
			Putting Green		1+
			Playground		1+
			Pavilion		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Mountain Bike Trails		1+



Developed  
Open  
Space



Indoor  
Facilities



Outdoor  
Facilities



Circulation

<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of low mast lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<p><b>Amenity</b></p>	<p><b>Specification</b></p>
<p>Color</p>	<p>Low mast poles shall be galvanized, stainless steel or aluminum. Painted poles are prohibited.</p>
<p>Identity</p>	<p>Low mast lighting shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all low mast lighting within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>
<p>Hardware</p>	<p>All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p>
<p><b>Amenity</b></p>	<p><b>Specification</b></p>
<p>Installation Notes</p>	<p>All low mast lighting shall be installed in accordance with manufacturer's recommendations.</p>
<p>Warranty</p>	<p>A one-year minimum warranty is required.</p>
<p>Life Cycle Expectations</p>	<p>Low mast lights are anticipated to require replacement after 20 years of normal and ordinary usage.</p>



Aesthetics

MISC

# X.X CANOPY LIGHTING

## OVERVIEW

### Acronym/Abbreviation: CLT

The design, development, preservation and enhancement of canopy lights in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>

<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of canopy lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<p><b>Amenity</b></p>	<p><b>Specification</b></p>
<p></p>	<p></p>
<p><b>Amenity</b></p>	<p><b>Specification</b></p>
<p></p>	<p></p>

MISC

# X.X SECURITY LIGHTING

## OVERVIEW

### Acronym/Abbreviation: SCLT

The design, development, preservation and enhancement of security lighting in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		1+			
Community Parks		1+			
Linear Park		1+			
Preserve		1+			
Neighborhood Park		1+			
Pocket Park		1+			
Special Use		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Center		1+			
Gymnastic Center		1+			
Indoor Ice Rink		1+			
Sports Complex		1+			
Natatorium		1+			
Nature Center		1+			
Recreation Center		1+			
Restrooms		1+			
Water Park		1+			
Senior Center		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Amphitheater		1+	Football Field		1+
Swimming Pools		1+	Multi-Purpose Field		1+
Spraygrounds		1+	Rugby Field		1+
Community Gardens		1+	Soccer Field (Adult)		1+
Challenge Spot		1+	Soccer Field (Youth)		1+
Driving Range		1+	Putting Green		1+
Basketball Court		1+			
Multi-Purpose Court		1+			
Volleyball Court		1+			
Baseball Field (Adult)		1+			
Baseball Field (Youth)		1+			
Parking Lot		1+			
Playground		1+			
Bike Park		1+			
Dog Park		1+			
Skate Park		1+			
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Mountain Bike Trails		1+

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of security lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
Amenity	Specification
Color	Security lighting may be galvanized, stainless steel or aluminum. <b>Black:</b> Security lights may be powder coated black.
Identity	Security lighting shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all security lighting within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.
Amenity	Specification
Installation Notes	Security lighting shall be installed in accordance with manufacturer's recommendations.
Warranty	A one-year minimum warranty is required.
Life Cycle Expectations	Security lighting are anticipated to require replacement after 20 years of normal and ordinary usage.



Aesthetics

MISC



# X.X TRAIL LIGHTING

## OVERVIEW

### Acronym/Abbreviation: TRLT

The design, development, preservation and enhancement of trail lights in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Trail lighting that is well placed, properly installed and frequently maintained can improve visibility, increase overall trail access and convenience and give trail users a sense of security while passing through at night.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Rink		1+
			Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Water Park		1+
			Senior Center		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Swimming Pools		1+
			Spraygrounds		1+
			Community Gardens		1+
			Driving Range		1+
			Sport Complex		1+
			Bike Park		1+
			Dog Park		1+
			Skate Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Mountain Bike Trails		1+

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of trail lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
Amenity	Specification
<p>Color</p> <p>Identity</p> <p>Hardware</p>	<p>Trail lights may be galvanized, stainless steel or aluminum. <b>Black:</b> Trail lights may be powder coated black.</p> <p>Trail lights shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all trail lighting within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p> <p>All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p>
Amenity	Specification
<p>Warranty</p> <p>Life Cycle Expectations</p>	<p>A one-year minimum warranty is required.</p> <p>Trail lights are anticipated to require replacement after 20 years of normal and ordinary usage.</p>



Aesthetics

MISC

# X.X ACCENT LIGHTING

## OVERVIEW

### Acronym/Abbreviation: ACLT

The design, development, preservation and enhancement of accent lighting in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Accent lighting that is well placed, properly installed and frequently maintained can improve visibility, increase overall convenience, enhance aesthetics and give users a sense of security while passing through at night.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use		1+



Developed  
Open  
Space



Aesthetics

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of accent lighting must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>

Amenity	Specification
Color	<p>Accent lighting may be galvanized, stainless steel or aluminum.  <b>Black:</b> Accent lighting may be powder coated black.</p>
Identity	<p>Accent Lighting shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all accent lighting within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>
Hardware	<p>All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.</p>

MISC

Amenity	Specification
Foliage Color	<p>Special attention shall be paid to the foliage color of trees. Lighter colored trees and foliage reflect light much easier and it is recommended that low voltage lighting be used to provide adequate lighting for smaller lighter colored trees. It is recommended to use more light on darker colored foliage because the light projected onto darker foliage is absorbed by the tree's darker color.</p>
Dense Foliage	<p>It is recommended that above ground spotlights or flood lights with a collar be installed to illuminate large, dense trees from the outside of the canopy. It is recommended that the fixtures be positioned a good distance away from the tree's trunk and aimed upwards towards the foliage. This will create a looming effect that blankets the tree's size and grandeur.</p>
Accent	<p>It is recommended that accent lighting be installed to highlight the texture and form of a tree's trunk and branches. Narrow beam spotlights from hidden fixtures add a flair of mystery to accent lighting. It is recommended that large bushy trees be illuminated by positioning spotlights very close to the trunk and aim them almost vertical.</p>
Narrow trees	<p>It is recommended that light narrow trees be illuminated from directly underneath with well, bullet and/or flood lights positioned directly by the tree's trunk and facing upwards to show off the tree's branch structure.</p>
Trunk	<p>It is also recommended that the trunk be illuminated in light when aiming ground lights straight up into the foliage so the uplift crown will not look like it is hovering.</p>
Down-lighting	<p>It is recommended that fixtures be positioned within a tree's foliage for elegant down-lighting. Down-lighting is similar to moonlighting although brighter and less subtle.</p>

<b>REQUIRED SPECIFICATIONS</b>		<b>RECOMMENDED SPECIFICATIONS</b>
<b>Amenity</b>	<b>Specification</b>	
MISC	Backdrops/Silhouetting	<p>It is recommended that fixtures be positioned behind the viewing angle where a tree is meant to be viewed, aimed towards an adjacent wall to create illuminated backdrops.</p> <p>The light will create a bright and magnificent outline around the perimeter of the tree's shape showcasing dense features that look especially striking in the sunset.</p> <p>Low voltage outdoor lighting systems are not generally suitable for providing bright accent lighting to trees, instead, a 120 volt system is recommended. It is recommended that fixtures be installed behind rocks, shrubs or other landscaping elements to keep from interrupting the natural appearance of the landscaping. Silhouetting contributes to increased security by providing a wash of light over the wall.</p>
	Highlighting	<p>It is recommended that two or more fixtures per tree be positioned at varying distances and angles to provide sufficient illumination for highlighting a tree.</p>
	Textured Shadowing	<p>It is recommended that fixtures be positioned at the base of open trees with delicate foliage facing towards an adjacent wall or deep within the canopy to create textured shadowing effects that create softer shadows. The effect of the tree's movement in the wind intensifies the dramatic effect.</p>
	Fencing	<p>It is recommended that wash lights be used on fencing. Wash lights throw out a soft, diffused light ideal for brightening privacy fences.</p>
	Pathways	<p>Path lighting may be created by placing well lights along the borders of pathways. It is important that the style of these path lights be considered carefully. It is also important to be sure that they are positioned to illuminate the path, but also placed so that they avoid being kicked, moved, or getting in the way of maintenance equipment. Well lights may be used to get light without seeing a fixture as they are buried in the ground.</p>
	Planting Beds	<p>It is recommended that fixtures be placed no closer than 20 feet apart so that pools of light will guide the eye from one plant to the next, rather than a continuous illumination.</p>
	Facades	<p>Bullet, well, wash or flood lights may be used to illuminate building facades to focus attention on the most appealing architectural elements such as corners, columns, deep eaves and dormers. Well light may be used to illuminate facades without seeing a fixture. Bullet lights may be used to project narrow, precise beams. Wash lights may be used to throw out a soft, diffused light ideal for brightening facades. Flood lights may be used with collars to cast a wider beam while minimizing side glare.</p>

<b>REQUIRED SPECIFICATIONS</b>		<b>RECOMMENDED SPECIFICATIONS</b>
<b>Amenity</b>	<b>Specification</b>	
MISC	Walls	Well, bullet, wash or flood lights may be used to illuminate walls by positioning fixtures close to the base so that the beams bring textures into sharp relief. Well light may be used to illuminate walls without seeing a fixture. Bullet lights may be used to project narrow, precise beams. Wash lights may be used to throw out a soft, diffuse light ideal for brightening walls. Flood lights may be used with collars to cast a wider beam while minimizing side glare.
	General Structures	Flood, bullet or wash lights may be used to highlight focal points that deserve attention such as a fountain by aiming two or more lights at it. The crossing beams reduce the harsh shadows that form when only one shines on an object. Bullet lights may be used to project narrow, precise beams. Wash lights may be used to throw out a soft, diffuse light ideal for brightening focal points.

# PHYSICAL BARRIERS

Physical Barriers shall be used to discourage/prevent vehicular, pedestrian and cyclist access to restricted and/or unsafe areas within the park system. The degree (including density/dimensions) of physical barriers shall be determined by DPARD on a case by case basis.

By their nature, physical barriers contribute to the spatial division of parkland, creating “outdoor rooms (facilities)” that are not intended for public access or use. Alternatively, some physical barriers are simply used to protect DPARD equipment/utilities/etc. and/or to direct the traffic flow to safer more accessible routes of travel.

Physical Barriers shall be delineated through the use of:

Bollards

Fencing

Railing

Flora (trees, shrubs, ornamental grasses)

Formal Screen

Informal Screen

Privacy Wall

Retaining wall

Seat Wall

The elements and principles of design shall also be adhered to in the design and development of all physical barriers with the intended/expected benefits of:

Defining space

Creating unity

Enhancing function

Enhancing aesthetics



# X.X BOLLARDS

## OVERVIEW

### Acronym/Abbreviation: BLRD

The design, development, preservation and enhancement of bollards in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Bollards shall be used to prevent vehicles from accessing pedestrian pathways and/or restricted / unsafe areas within the park system. They are very effective in reducing accidents in vehicular/pedestrian conflict zones. The quantity and density of bollards shall be determined by DPARD on a case by case basis.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/ maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/ control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



Developed  
Open  
Space



Indoor  
Facilities



Outdoor  
Facilities



Aesthetics

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Natatorium		1+
			Recreation Center		1+
			Water Park		1+
			Senior Center		1+
					1+
					1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Swimming Pools		1+
			Spraygrounds		1+
			Parking Lot		1+
			Sport Complex		1+
			Dog Park		1+
			Skate Park		1+
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications that are required for this classification of safety & security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of bollards must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of safety & security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	Bollards may be powder coated black, blue, green, red, or yellow.				
Identity	<p>Bollards shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all bollards within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p> <p>Bollards should be tall enough to discourage vehicular traffic and small enough to be unobtrusive.</p>				

**REQUIRED SPECIFICATIONS****RECOMMENDED SPECIFICATIONS****Standard Options**

Options

**Options 1**

Manufacturer: RAB

Type: Pedestrian Amenity

Product/Catalog #:  
BDLEDR24NK

Color: Black

Cost: \$540.00

Notes:

Site: <https://www.rablighting.com/feature/led-bollards?product=BDLEDR24NK#ordering-matrix>**Options 2**

Manufacturer: Dumor

Type: Pedestrian Amenity

Product/Catalog #:  
400-42 S-1SL

Color: Textured Black or Pyrite

Cost: \$1,225.00

Notes:

Site: <https://dumor.com/products/bollards/bollard-400>

# X.X FENCING

## OVERVIEW

### Acronym/Abbreviation: FENC

The design, development, preservation and enhancement of fencing in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### Considerations

Note: All fencing shall be in compliance with the most current version of the City of Denton Site Design Criteria Manual.

To ensure the visual and aesthetic integrity of the DPARD system, fencing shall be installed where necessary to enclose areas for safety, security or privacy reasons, particularly adjacent to residential lots.

DPARD will dictate the design and location of such fencing on a case by case basis.

Gates may vary, and thus must be approved by DPARD.

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities maximize accessibility, control
  - 2a) separated activities minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required. <i>*PRN=As needed</i>			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		PRN			
Community Parks		PRN			
Linear Park		PRN			
Preserve		PRN			
Neighborhood Park		PRN			
Pocket Park		PRN			
Special Use		PRN			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Community Gardens		PRN			
Driving Range		PRN			
Basketball Courts		PRN			
Multi-Purpose Courts		PRN			
Tennis Courts		PRN			
Baseball Fields (Adult)		PRN			
Baseball Fields (Youth)		PRN			
Football Fields		PRN			
Ruby Fields		PRN			
Soccer Fields (Adult)		PRN			
Soccer Fields (Youth)		PRN			
Softball Fields (Adult)		PRN			
Softball Fields (Youth)		PRN			
Playgrounds		PRN			
Putting Greens		PRN			
Sports Complex		PRN			
Bike Park		PRN			
Dog Park		PRN			
Skate Park		PRN			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Use Trails		PRN			
Mountain Bike Trails		PRN			



Developed  
Open  
Space



Outdoor  
Facilities



Circulation

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of fencing must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>

Amenity	Specification
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Aesthetics

Color	<p>Fencing may be galvanized, stainless steel or aluminum.            Black: Chain link fencing shall be black vinyl coated.</p>
Height	<p>4'            6'            8'</p>
Construction	
Identity	<p>Fencing shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all fencing within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>
Additional Considerations	<p>Fence posts shall be steel, set in concrete and spaced no less than eight (8') feet apart.</p> <p>Used material and wood are prohibited.</p> <p>Vinyl and powder coat finished are preferred.</p> <p>All fencing shall be either black vinyl coated chain link, black vinyl coated horse panel, post and cable, tubular steel and may have brick or stone columns.</p>

Options

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# X.X PRIVACY WALLS

## OVERVIEW

### Acronym/Abbreviation: PWLL

The design, development, preservation and enhancement of privacy walls in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
<p>Safety and security elements shall be located at each of the following locations in the quantities required. <i>*PRN=As needed</i></p>			<p>Safety and security elements shall be located at each of the following locations in the quantities recommended.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		PRN			
Community Parks		PRN			
Linear Park		PRN			
Preserve		PRN			
Neighborhood Park		PRN			
Pocket Park		PRN			
Special Use		PRN			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Use Trails		PRN			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of privacy walls must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Specification				
Materials					
Along Rights of Ways (Excluding local streets)	Walls shall be made of any combination of wrought iron, masonry, stone or decorative concrete panels.				
Local Streets	<p>Walls shall be made of any combination of wrought iron, and wood. If wood is used, it shall be constructed with steel posts and a decorative cap with the good side out.</p> <p>Pilasters are required 50' on center (minimum)</p> <p>Caps are recommended to modulate the top of walls.</p>				
Identity	<p>Privacy walls shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all privacy walls within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>				



# X.X RETAINING WALLS

## OVERVIEW

### Acronym/Abbreviation: RTWL

The design, development, preservation and enhancement of retaining walls in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



Developed  
Open  
Space



Circulation



Aesthetics

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
<p>Safety and security elements shall be located at each of the following locations in the quantities required. <i>*PRN=As needed</i></p>			<p>Safety and security elements shall be located at each of the following locations in the quantities recommended.</p>		
Amenity	Reference	Min.	Amenity	Reference	Rec.
City Parks		PRN			
Community Parks		PRN			
Linear Park		PRN			
Preserve		PRN			
Neighborhood Park		PRN			
Pocket Park		PRN			
Special Use		PRN			
Amenity	Reference	Min.	Amenity	Reference	Rec.
Multi-Use Trails		PRN			
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of retaining walls must receive prior written authorization from the DPARD.</p>			<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>		
Amenity	Specification				
Types	<p>The following types of retaining walls are acceptable for use in the DPARD system.</p> <ul style="list-style-type: none"> <li>Masonry Retaining Walls</li> <li>Concrete Retaining Wall</li> <li>Concrete Unit Retaining Walls</li> <li>Reinforced CMU Cantilevered Wall</li> <li>Reinforced CMU Retaining Wall with Impermeable backfill</li> <li>Reinforced CMU Retaining Wall with Sloping Backfill</li> <li>Stone Veneer Retaining Wall</li> <li>Brick Veneer Retaining Wall</li> <li>Steel Retaining Walls</li> <li>Stone Retaining Walls</li> <li>Gabion Retaining Walls</li> <li>Mortared Stone Gravity Retaining Walls</li> </ul>				
Identity	<p>Retaining walls shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all retaining walls within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>				

# ADDITIONAL CONSIDERATIONS

## X.X TREE GUARDS

### OVERVIEW

#### Acronym/Abbreviation: TGRD

The design, development, preservation and enhancement of tree guards in the DPARD system shall comply with the following required and/or recommended specifications.

### FUNCTION

Tree guards, when appropriate, shall be placed in more urban environments of the park system. When properly installed they can increase safety, enhance aesthetics and give pedestrians and cyclists a sense of security while traveling along pedestrian/cyclist corridors. Tree guards are typically utilized as an aesthetic means to protect young trees.

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

### SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

#### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

- A) Allow diverse activities to occur simultaneously
- B) facilities administrative visibility/control of facilities
- C) complementary spaces form Functional areas that support one another ( cohesive site design)
  - 1a) grouped activities  
maximize accessibility,  
control
  - 2a) separated activities  
minimize conflicts

#### 2) Potential for growth/expansion to meet the needs of a growing population

#### 3) Compatibility for multi-generational population

#### 4) Universal accessibility



Circulation

Additional Locations



Aesthetics

Options

REQUIRED LOCATIONS			REQUIRED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Streetscapes		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Downtown Cultural District		
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following are specifications that are required for this classification of safety & security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of tree guards must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of safety & security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	Tree guards may be powder coated green or black				
Identity	Tree Guards shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all tree guards within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				
Options					

# X.X TREE GRATES

## OVERVIEW

### Acronym/Abbreviation: TGRT

The design, development, preservation and enhancement of tree grates in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Tree grates, when appropriate, shall be placed in more urban environments of the park system. When properly installed they can increase safety, enhance aesthetics and give pedestrians and cyclists a sense of security while traveling along pedestrian/cyclist corridors.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

### 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses

A) Allow diverse activities to occur simultaneously

B) facilities administrative visibility/control of facilities

C) complementary spaces form

Functional areas that support one another ( cohesive site design)

1a) grouped activities  
maximize accessibility,  
control

2a) separated activities  
minimize conflicts

### 2) Potential for growth/expansion to meet the needs of a growing population

### 3) Compatibility for multi-generational population

### 4) Universal accessibility



Developed  
Open  
Space



Indoor  
Facilities



Outdoor  
Facilities



Circulation

Additional  
Locations


REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Rink		1+
			Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Senior Center		1+
			Water Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Swimming Pools		1+
			Sprayground		1+
			Parking Lot		1+
			Sports Complex		1+
			Bike Park		1+
			Skate Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Streetscapes		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Downtown		
			Cultural District		

REQUIRED SPECIFICATIONS	RECOMMENDED SPECIFICATIONS
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of tree grates must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>

Amenity	Specification
---------	---------------



Aesthetics

Material	Cast Iron tree grates shall be made of cast iron
Pattern	<p>The pattern design shall protect against pedestrian / cyclist traffic and debris while allowing water to flow to the root system</p> <p>Note: All grates shall be expandable to accommodate growth</p>
Hardware	<p>Tree grates shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all tree grates within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.</p>
Example	

Options

# X.X TREE PIT GUARDS

## OVERVIEW

### Acronym/Abbreviation: TPGD

The design, development, preservation and enhancement of tree pit guards in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Tree pit guards, when appropriate, shall be placed in tree pits throughout the more urban environments of the city. When properly installed they can increase safety, enhance aesthetics and give pedestrians and cyclists a sense of security while traveling along pedestrian/cyclist corridors.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

Tree pit guards are not required by DPARD and may only be used with the written approval of DPARD.

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**





Developed  
Open  
Space



Indoor  
Facilities



Outdoor  
Facilities



Circulation

Additional  
Locations

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		1+
			Community Parks		1+
			Linear Park		1+
			Preserve		1+
			Neighborhood Park		1+
			Pocket Park		1+
			Special Use		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Community Center		1+
			Gymnastic Center		1+
			Indoor Ice Rink		1+
			Sports Complex		1+
			Natatorium		1+
			Recreation Center		1+
			Senior Center		1+
			Water Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Amphitheater		1+
			Swimming Pools		1+
			Sprayground		1+
			Parking Lot		1+
			Sports Complex		1+
			Bike Park		1+
			Skate Park		1+
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		1+
			Streetscapes		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Downtown		
			Cultural District		

<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
<p>The following are specifications that are required for this classification of safety &amp; security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of tree pit guards must receive prior written authorization from the DPARD.</p>	<p>The following specifications are recommended (not required) for this classification of safety &amp; security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.</p>
<b>Amenity</b>	<b>Specification</b>
Scale	Tree pit guards shall be 18" minimum to 30" maximum in height around the perimeter of tree pits. This will assist in protecting trees and other flora from dogs and pedestrians and give flora enough space to grow for many years.
Material	Cast Iron: Tree pit guards shall be made of cast iron Wrought Iron: Tree pit guards may be made of wrought iron
Pattern	The pattern design shall protect against pedestrian / cyclist traffic and debris while allowing water to flow to the root system
Identity	Tree pit guards shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all tree pit guards within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.
Additional Considerations	Tree Pit Guards shall not be installed close to tree trunks. Negative Potential Effects: Strangle tree as it grows Failure to protect root zone



Aesthetics

# X.X CROSSWALKS

## OVERVIEW

### Acronym/Abbreviation: CSS

The design, development, preservation and enhancement of crosswalks in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

Allow pedestrians to conveniently and safely cross vehicular circulation zones. The absence of crosswalks has the potential to increase the level of vehicular pedestrian conflict within vehicular circulation zones. Providing crosswalks in appropriate areas increases the level of service DPARD is able to offer the residents of Denton.

## Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**



Developed  
Open  
Space



Circulation

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		TBD
			Community Parks		TBD
			Linear Park		TBD
			Preserve		TBD
			Neighborhood Park		TBD
			Pocket Park		TBD
			Special Use		TBD
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		TBD

## REQUIRED SPECIFICATIONS

The following are specifications that are required for this classification of safety & security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of crosswalks must receive prior written authorization from the DPARD.

## RECOMMENDED SPECIFICATIONS

The following specifications are recommended (not required) for this classification of safety & security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.

### Amenity

### Specification

Color

White: Ladder and continental crosswalks shall be white.

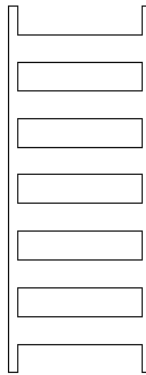
Identity

Crosswalks shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity and commitment to safety of DPARD and the city of Denton. Therefore all crosswalks within developed/undeveloped open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.

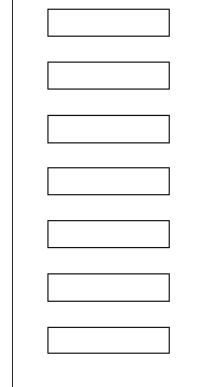
Examples

#### Standard Painted Crosswalks:

Ladder

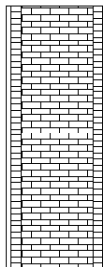


Continental

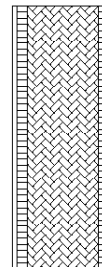


#### Enhanced Crosswalks:

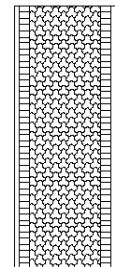
Running Bond



Herringbone



Shaped Pavers



Aesthetics

	<b>REQUIRED SPECIFICATIONS</b>	<b>RECOMMENDED SPECIFICATIONS</b>
Amenity	Specification	
MISC CODE	<p>The 2000 Uniform Vehicle Code and Model Traffic Ordinance (Uniform Vehicle Code) (Section 1-112) defines a crosswalk as:</p> <p>(1) "That part of a roadway at an intersection included within the connections of the lateral lines of the sidewalks on opposite sides of the highway measured from the curbs, or in the absence of curbs, from the edges of the traversable roadway; and in the absence of a sidewalk on one side of the roadway, the part of a roadway included within the extension of the lateral lines of the existing sidewalk at right angles to the centerline. Any portion of a roadway at an intersection or elsewhere distinctly indicated for pedestrian crossing by lines or other markings on the surface."</p> <p>Thus, a crosswalk at an intersection is defined as the extension of the sidewalk or the shoulder across the intersection, regardless of whether it is marked or not. The only way a crosswalk can exist at a mid-block location is if it is marked. Most jurisdictions have crosswalk laws that make it legal for pedestrians to cross the street at any intersection, whether marked or not, unless the pedestrian crossing is specifically prohibited.</p> <p>According to Section 3B.17 of the Manual on Uniform Traffic Control Devices (MUTCD), crosswalks serve the following purposes:</p> <p>(2) "Crosswalk markings provide guidance for pedestrians who are crossing roadways by defining and delineating paths on approaches to and within signalized intersections, and on approaches to other intersections where traffic stops.</p> <p>Crosswalk markings also serve to alert road users of a pedestrian crossing point across roadways not controlled by traffic signals or STOP signs.</p> <p>At intersection locations, crosswalk markings legally establish the crosswalk."</p> <p>The MUTCD also provides guidance on marked crosswalks, including:</p> <p>Crosswalk width should not be less than 1.8 meters (m)(6 feet (ft)). Crosswalk lines should extend across the full width of the pavement (to discourage diagonal walking between crosswalks).</p> <p>Crosswalks should be marked at all intersections that have "substantial conflict between vehicular and pedestrian movements."</p> <p>Crosswalk markings should be provided at points of pedestrian concentration, such as at loading islands, mid-block pedestrian islands, and/or where pedestrians need assistance in determining the proper place to cross the street.</p> <p>The MUTCD further states that: "Crosswalk lines should not be used indiscriminately. An engineering study should be performed before they are installed at locations away from traffic signals or STOP signs."</p> <p>However, the MUTCD does not provide specific guidance relative to the site condition (e.g., Traffic volume, pedestrian volume, number of lanes, presence or type of median) where marked crosswalks should or should not be used at uncontrolled locations. Such decisions have historically been left to the judgment of State and local traffic engineers.</p>	

<b>REQUIRED SPECIFICATIONS</b>		<b>RECOMMENDED SPECIFICATIONS</b>
<b>Amenity</b>	<b>Specification</b>	
MISC CODE	<p>Furthermore, practices on where to mark or not mark crosswalks have differed widely among highway agencies, and this has been a controversial topic among researchers, traffic engineers, and pedestrian safety advocates for many years. More specific safety research and guidelines have been needed on where to mark or not mark crosswalks at uncontrolled locations.</p> <p>Designated marked or unmarked crosswalks are also required to be accessible to wheelchair users if an accessible sidewalk exists. The level of connectivity between pedestrian facilities is directly related to the placement and consistency of street crossings.</p>	

# X.X SECURITY CAMERAS

## OVERVIEW

### Acronym/Abbreviation: SCAM

The design, development, preservation and enhancement of security cameras in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) **The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility,  
control
    - 2a) separated activities  
minimize conflicts
- 2) **Potential for growth/expansion to meet the needs of a growing population**
- 3) **Compatibility for multi-generational population**
- 4) **Universal accessibility**





Developed  
Open  
Space



Circulation



Aesthetics

REQUIRED LOCATIONS			RECOMMENDED LOCATIONS		
Safety and security elements shall be located at each of the following locations in the quantities required.			Safety and security elements shall be located at each of the following locations in the quantities recommended.		
Amenity	Reference	Min.	Amenity	Reference	Rec.
			City Parks		TBD
			Community Parks		TBD
			Linear Park		TBD
			Preserve		TBD
			Neighborhood Park		TBD
			Pocket Park		TBD
			Special Use		TBD
Amenity	Reference	Min.	Amenity	Reference	Rec.
			Multi-Use Trails		TBD
REQUIRED SPECIFICATIONS			RECOMMENDED SPECIFICATIONS		
The following specifications that are required for this classification of safety & security in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of security cameras must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of safety & security to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
Amenity	Specification				
Color	Security cameras may be black, gray or white.				
Identity	Security cameras shall be sensitively integrated into the fabric of the overall park system. Their aesthetics, function, availability and maintenance thereof greatly contribute to the overall identity of DPARD and the city of Denton. Therefore all security cameras within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.				
Hardware	All mounting hardware and fasteners shall be low profile, vandal resistant, stainless steel or finished to match unit.				



# Section 11: TECHNOLOGY & UTILITIES

This section outlines the required and recommended specifications for safety and security within the City of Denton. The following are the definitions of the items that can be found in the following pages.

## WIFI

[INSERT FUNCTION HERE]

## ELECTRICAL

[INSERT FUNCTION HERE]

## WATER

[INSERT FUNCTION HERE]

## MECHANICAL EQUIPMENT

[INSERT FUNCTION HERE]

## PLUMBING FIXTURES

[INSERT FUNCTION HERE]

## SECURITY LIGHTS

[INSERT FUNCTION HERE]

# X.X WIFI

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of WIFI in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
Technology and utilities shall be located at each of the following locations in the quantities required.			Technology and utilities elements shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications that are required for this classification of technology and utilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of WIFI must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of technology and utilities to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Specification</b>				

# X.X ELECTRICAL

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of electrical in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
Technology and utilities shall be located at each of the following locations in the quantities required.			Technology and utilities elements shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications that are required for this classification of technology and utilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of electrical must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of technology and utilities to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Specification</b>				

# X.X WATER

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of water in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities  
maximize accessibility, control
    - 2a) separated activities  
minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
Technology and utilities shall be located at each of the following locations in the quantities required.			Technology and utilities elements shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications that are required for this classification of technology and utilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of water must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of technology and utilities to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Specification</b>				



# X.X MECHANICAL EQUIPMENT

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of mechanical equipment in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
  - B) facilities administrative visibility/control of facilities
  - C) complementary spaces form Functional areas that support one another ( cohesive site design)
    - 1a) grouped activities maximize accessibility, control
    - 2a) separated activities minimize conflicts
- 2) Potential for growth/expansion to meet the needs of a growing population**
- 3) Compatibility for multi-generational population**
- 4) Universal accessibility**

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
Technology and utilities shall be located at each of the following locations in the quantities required.			Technology and utilities elements shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications that are required for this classification of technology and utilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of mechanical equipment must receive prior written authorization from the DPARD.			The following specifications are recommended (not required) for this classification of technology and utilities to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Specification</b>				

# X.X PLUMBING FIXTURES

## OVERVIEW

### Acronym/Abbreviation:

The design, development, preservation and enhancement of plumbing fixtures in the DPARD system shall comply with the following required and/or recommended specifications.

## FUNCTION

[INSERT FUNCTION HERE]

### Compliance

Adherence to all design guidelines and standards as well as compliance with all regulatory and permitting requirements including, but not limited to

- City Code Compliance
- Regulatory permitting requirements

## SPATIAL ORGANIZATION

In an effort to encourage social interaction, user participation, user safety and to reduce construction/maintenance costs, great care and consideration shall be given to

- 1) The relationship/flexibility between indoor/outdoor facilities, site amenities, programming and adjacent uses**
  - A) Allow diverse activities to occur simultaneously
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- 2) Potential for growth/expansion to meet the needs of a growing population**
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- 4) Universal accessibility**

<b>REQUIRED LOCATIONS</b>			<b>RECOMMENDED LOCATIONS</b>		
Technology and utilities shall be located at each of the following locations in the quantities required.			Technology and utilities elements shall be located at each of the following locations in the quantities recommended.		
<b>Amenity</b>	<b>Reference</b>	<b>Min.</b>	<b>Amenity</b>	<b>Reference</b>	<b>Rec.</b>
<b>REQUIRED SPECIFICATIONS</b>			<b>RECOMMENDED SPECIFICATIONS</b>		
The following are specifications that are required for this classification of technology and utilities in order to maintain the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all modifications to the required specifications in the development of plumbing fixtures must receive prior written authorization from the DPARD.			The following specification are recommended (not required) for this classifications of technology and utilities to assist in the equitable distribution which in turn assist in maintaining/enhancing the level of service (LOS) DPARD provides the residents of the City of Denton. Any and all amenities not specifically identified in the required/recommended specifications herein must received prior written authorization from the DPARD.		
<b>Amenity</b>	<b>Specification</b>				

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# Section 12: LANDSCAPE

This section outlines the required and recommended specifications for landscape within the City of Denton. The following are the definition of the items that can be found in the following pages.

Background	
Geography	<p><b>Blackland Prairie &amp; Cross Timbers</b></p> <p>The DPARD system straddles both the Blackland Prairie and Cross Timbers eco-regions north of Dallas. This region is situated in a dynamic region comprised of a true temperate prairie grassland dominated by perennial and annual grasses. The gently rolling hills of this region are underlain by upper cretaceous marine chinks, limestone and shale which give rise to the development of the characteristic black, heavy clay soils and slightly more sandy soil along major rivers and tributaries. The blackland prairie soil is considered to be some of the richest in the world. Historically, the east-central portion of the blackland prairie was once part of a vast tall grass prairie made up of big bluestem, little bluestem, switchgrass, sideoats and other flora. Early settlers were drawn to this region by the productive soils, gentle topography, and luxurious native grasslands.</p> <p>Throughout history a variety of working landscapes have developed in the region taking the form of farming practices such as croplands and livestock production. Aquatic development occurred primarily as reservoirs and stock ponds while other forms of development occurred across a hierarchy ranging from small farming communities to booming metropolitan areas. Exurban residential development was widespread but more prevalent in areas within commuting distances of the major urban centers.</p>
Landscape Inspiration	<p>DPARD takes a purposeful sampling approach, selecting historically and culturally rich influences with the ability to guide the development of the parks system that increases quality of life for residents and promotes environmental awareness and stewardship. DPARD's landscape design philosophy integrates the region's character within a variety of systems. Throughout DPARD's inventory of developed / undeveloped open space including parks, R.O.W.s, streetscapes and other city facilities DPARD incorporates naturalistic, native, prairie and agrarian ideals to varying degrees based on anticipated recreational use and aesthetic considerations. Retention/detention basins, ponds, lakes and creeks shall use bottomland tree species and prairie grasses along their edges to promote water quality, decrease maintenance and create a meaningful and memorable 'genus loci'. Expansive open lawn areas shall accommodate both active and passive recreational uses stitched together through a meandering network of trails. Streetscapes shall include a mix of informal native shade trees, shrubs, sweeping grasses and wildflowers. The primary park entrances and beautification nodes around the city shall include both monumentation and mass planting. Groves in both developed and undeveloped open space shall be created as a unique and strong backdrop throughout the park system creating a naturalistic composition throughout the city of Denton. The long term goal being to create a park system wide landscape that becomes a series of outdoor rooms with distant prairie views, close connections to productive landscapes and opportunities for flexible recreation and healthy living.</p>

Design Intent	<p>The general intent of the landscape guidelines is to provide a framework for site improvements. In keeping with the design philosophy of DPARD, it is important that all developed and undeveloped open space blend with the surrounding environment. Careful integration of site grading, architecture, and landscaping will contribute to this end goal, while also optimizing the potential of each park property. Thoughtful attention to landscape design will ensure that current and future parks will continue to be and/or become an integrated element in the overall character of the city of Denton. To further this goal, it is important to preserve and incorporate native plant material and existing trees into each proposed landscape.</p> <p>The goal is to create an orderly landscape utilizing native and adaptive plants, which are naturally drought tolerant and resistant to pests and diseases. With less watering, fertilizing, and chemical control required, DPARD will contribute to the conservation and preservation of our precious water resources. Utilizing the minimum standards set forth in these guidelines will help achieve these ideals.</p>
<b>General Guidelines</b>	
<p>This work includes all final fine grading and minor leveling of planting areas, soil preparation, and planting. Builder shall furnish all labor, materials, equipment and services required as herein specified and indicated on the drawings. Builder shall completely coordinate with work of all other trades. View corridors into the public open spaces should be maintained when siting residences and designing residential landscapes. Requests for landscape modifications within public open space, or requests for residential landscaping that adversely impacts the landscape of same will not be considered. Unauthorized landscaping, mowing or pruning of public open space vegetation is strictly prohibited and shall result in the levying of sanctions against the offending party by the DRC. Landscaping shall be installed by the builder before home completion and occupancy. Initial landscaping shall be performed by qualified landscaping professionals. Any hose or other watering equipment shall be provided by the landscape contractor to water planting areas until the job is accepted by the builder. Builders shall extend landscaping to the street curb or sidewalk where it is adjacent to the street. All excess soil, soil preparation materials, fertilizer, or plant containers shall be removed from the site upon completion of work.</p>	
Preparation	<p>Contractor shall be responsible to examine/verify all areas and conditions under which work is to be performed, including the location of all underground utilities, pipes, structures and line runs in the field prior to the installation of any plant material. Notify landscape designer of any conditions detrimental to proper and timely completion of work. It is the responsibility of the contractor to advise the landscape designer of any condition found on the site which prohibits the installation as shown on the drawings.</p> <p>Landscape contractor is responsible to review site environmental conditions prior to and during installation of plant material. Any discrepancies or concerns between the environmental site conditions (i.e. Soil type, water, climate, wind, sun exposure, etc. ) and the plant material specified within he drawings shall be brought to the attention of the landscape designer and shall be done in writing. A this time, contractor can provide sufficient solutions or alternative plant material for substitution. Landscape designer will review conditions and information submitted by contractor and will issue a directive. Should plant material die due to the environmental conditions described above the landscape contractor assumes all warranty and guarantee of the plant material installed.</p>
Coordination	<p>Landscape contractor is responsible for all coordination with other contractors on site as required to accomplish all planting operations.</p> <p><b>Verification</b>  Plant quantities have been provided as a convenience only and shall not be considered absolute. Contractor shall verify all quantities of plant material necessary for full coverage in all planting areas as specified in drawings as well as miscellaneous items such as edging, bed preparations and mulch prior to bidding and provide revised quantities at time of bid. Contractor will verify plants in inventory or off site. Landscape designer reserves the right to place and/or adjust placement of all plant material.</p>

**General Guidelines**

Chemicals

Fertilization, weed and pest controls, etc. should be provided only as required for optimum plant growth. Root Activator shall be "Green Light" or "Ortho" brands or equal.

Contractor shall add an approved fertilizer appropriate to new planting and lawn turf that is appropriate to the season of year. Contractor to aerate by water injection and hand fork all areas that have been compacted due to construction prior to planting area. All Planters will be fertilized also.

Add Fertilizer tablets to all trees and shrubs, one tablet per 1/2" caliper for trees and one tablet per 12" of height or spread for each shrub at installation.

Drainage

Existing and proposed drainage and grading shall be indicated on the site plan. Builders shall not interfere with the established drainage pattern over any property except as approved in writing by the DRC, who shall consider the interest of the entire community.

Builders shall conform to the established drainage pattern, shall cause water to drain away from the foundation of the house, and shall prevent water from flowing under or ponding near or against the house foundation. Builders may make drainage modifications to their lots provided that they do not alter the established drainage pattern.

Water shall flow fully over walkways, sidewalks or driveways into established drainage patterns. Obstruction of surface flows resulting in a backup of water onto any lot or tract is strictly prohibited. If deemed necessary, the DRC may require a report from a drainage engineer as part of landscaping or improvement plan approval.

Erosion Control

In some cases, there may be relatively steep slopes on a lot. It is important to note that if slopes are not landscaped, severe erosion and silting may occur. All erodible areas of disturbed soil shall be protected through the use of "best management practices" until the soil is stabilized. Failure to exercise proper soil and sediment control techniques, particularly in areas which drain directly into ponds, detention facilities, streets or storm sewer inlets may result in the DRC installing erosion control devices and assessing the costs thereof against the builder. The builder shall landscape slopes within seven (7) days after grading is complete.

Accepted erosion control techniques include the use of sedimentation basins, filtration materials such as straw bales or permeable geotextiles, and slope stabilization fabrics or tackifiers. Loose aggregate or wood chips are not recommended on steep slopes. The builder shall install ground cover and shrubs as necessary to prevent slope erosion. As defined above, accepted erosion control measures shall be used during construction to reduce adverse silting impacts downstream.

Pruning

Newly planted trees shall have a minimum clear trunk height of 4'-6'. Existing trees overhanging into the public R.O.W. shall have a minimum clear trunk height of fifteen (15) feet over streets, drive aisles, alleys and fire lanes. Trees overhanging private streets, walks and/or parking lots shall have a minimum clear trunk of ten (10) feet.

Staking/Guying

All trees are to be secured with the Tulley root anchor system through the one year warranty at which time the landscape designer shall determine if removal is necessary (refer to planting details).



**General Guidelines**

Maintenance	<p>PARD is a quality park system committed to its visual integrity. All landscaping shall be maintained in accordance with the requirements set forth in these standards. To ensure healthy well-maintained plant materials, landscaped common areas shall receive routine maintenance.</p> <p>The landscape contractor is responsible for watering, cultivating, and other necessary maintenance until the completion and acceptance of all new development work.</p> <p>Each tree will be pruned to preserve the natural shape and character of the plant. All pruning will be done after delivery to the site. All soft wood or sucker growth and all broken or badly bruised branches shall be removed. All pruning cuts shall be sharp and clean. If necessary, limbs shall be banded if cracks are visible. No more than 1/3 of the foliage on woody plants should be pruned when needed.</p> <p>Landscape contractor shall be responsible for maintaining all landscaping accordance with standard horticultural procedures, including irrigation as necessary, until substantial completion and acceptance by DPARD.</p> <p>Apply water immediately after planting at 2 ties the gallon size of the plant container. Thereafter, water the plants according to the schedule reflected on the irrigation plan.</p>
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**Landscape Design Guidelines**

Foundation Planting	<p>Care should be taken when planting large trees and shrubs near the foundation of any buildings within parks property. Large trees and shrubs should be planted no closer to a foundation than two (2) times the diameter of the root ball of the mature plant. Avoid planting shrubs along a building's foundation at a constant distance from the foundation. Radius beds should be placed six feet (6') minimum from the structure. Widths of the beds should vary. A single row of foundation planting is not acceptable.</p>
Planting Beds	<p>Planting beds, in addition to foundation plants, should offer a more lush appearance to the community. No bare ground is acceptable. Planting beds are to be curvilinear with the shrubs massed in tiers. Smaller shrubs and ground cover are to be placed in the front of the bed. Larger shrubs should be placed in the rear of the bed. Groupings of shrubs of the same species provide a substantial look in scale with structures. Mow Strips are required.</p>
Tree Pits	<p>To ensure the safety, visual and aesthetic integrity of the city and the DPARD system are unified, the following guidelines shall be observed in relation to tree pits. These guidelines generally follow regulations of other agencies with street jurisdictions such as Fire, DOT, MTA. These requirements are design and species dependent. The Americans with Disabilities Act (ADA) guidelines must be followed.</p> <p><b>Location:</b> Tree Pits shall not be located in front of building entrances in order to permit easy access by Fire Department. Shall be contiguous to the street curb unless otherwise noted. Do not locate within bus stops</p> <p><b>Setbacks:</b> All setback distances are dependent upon tree species.          Distance from Streetlight: 25' O.C. setback (minimum)          Distance from Stop Sign: 0' O.C. setback (minimum)          Distance from other Traffic Signs: 6' O.C. setback (minimum)          Distance from Parking Meter: 5' O.C. behind meter to allow for the swing of car doors.          Distance from Gas/Water Valve: 2' (minimum) from edge of tree pit          Distance from Fire Hydrant: 5' (minimum) from the edge of tree pit          Distance from Curb Cut: 7' (minimum) from edge of tree pit          Distance from Driveway: 7' (minimum) from edge of tree pit</p>

**Landscape Design Guidelines**

Tree Pits	<p>Distance from Middle of street intersection: 40' (minimum) from edge of tree pit                  Distance from Building Wall: 6' (minimum) from edge of tree pit                  Distance from Railing: 6' (minimum) from edge of tree pit</p> <p><b>Scale</b>                  Tree pits shall be as large as possible to allow ample growing space for roots and crown.</p> <p>Continuous tree pits are encouraged whenever possible. Tree pits shall be continuous wherever group plantings are involved.</p> <p>Tree Pit near building entrances: 5'x8' (recommended)                  Tree Pit near driveways: 5'x8' (recommended)                  Tree Pit along pedestrian pathway: 5'x10' (standard)                  5'x12' (preferred)</p> <p><b>Spacing</b>                  Small Tree Pits: 20' O.C. (maximum)                  Medium Tree Pits: 30' O.C. (maximum)                  Large Tree Pits: 30'-45' O.C. (maximum)</p> <p><b>Companion Amenities</b>                  Design/Construction Constraints</p> <p>Do not install raised brick or concrete tree wells. The interior space created by the solid wall enables/encourages the addition of soil over the tree root zone for plantings, unwittingly suffocating tree roots.</p>
Street Trees	<p>To ensure the visual and aesthetic integrity of the DPARD system, fencing shall be installed where necessary to enclose areas for safety, security or privacy reasons, particularly adjacent residential lots</p> <p><b>Location:</b> Street trees shall not be located in front of building entrances in order to permit easy access by Fire Department.</p> <p><b>Spacing:</b> Minimum distance between trees (center to center) is dependent upon the tree species and environmental conditions.</p> <p>Small Trees: 20' O.C. (maximum)                  Medium Street Trees: 30' O.C. (maximum)                  Large Street Trees: 30'-45' O.C. (maximum)</p> <p><b>Visual Barriers:</b> Visual Barriers shall be used to discourage/prevent visual access to objectionable and/or private/restricted areas/property within and adjacent to parkland. The degree (including density/dimensions) of visual barriers shall be determined by DPARD on a case by case basis.</p> <p>By their nature, visual barriers contribute to the spatial definition and perception of each park and facility within. The effect visual barriers have on perception also greatly influences experience, safety and usage.</p>

Landscape Design Guidelines

Street Trees

**Visual Barriers shall be delineated through the use of:**

- Berms
- Fencing
- Landforms
- Railing
- Trellis
- Flora (trees, shrubs, ornamental grasses)
- Formal Screen
- Informal Screen
- Privacy Wall
- Retaining wall
- Seat Wall

The elements and principles of design shall also be adhered to in the design and development of all visual barriers with the intended/expected benefits of:

- Defining space
- Creating unity
- Enhancing function
- Enhancing aesthetics
- Crime reduction
- Pollution control/reduction
- Sound barrier
- Privacy
- Safety
- Security

Note: It should be noted that when something is hidden (100%) it increases curiosity to find out what is being hidden as well as creating places to hide or potentially commit crime. Whenever possible, visual screening should be at 90% or below to assist in reducing vandalism/crime.

**Screening:** Where practical, all meters, air conditioning units, power and pool equipment shall be completely screened from public view. Where possible, builders shall design niches or offsets to hide mechanical equipment. Extreme care shall be taken in the location of condensers to avoid noise infiltration of adjacent "quiet" zones. The equipment should be placed in appropriate spaces, and utility meters must be painted to match the main color of the adjacent wall.

Hedges may be used for screens if plants are mature enough and spaced close enough to provide adequate screening at the time of installation. Staggered spacing of shrubs for hedges makes a good screen. Shrubs and / or vines should be used in front of fences.

**Sight Triangle:** A thirty five (35') by thirty five foot (35') sight distance triangle is required. Landscape planting may not violate this requirement.

**Location / Spacing:** Location and spacing for plants shall be shown by stem location or by notations on the plans for all new development. All tree planting locations shall be staked by the landscape contractor and shall be approved by DPARD prior to digging the planting pits. Trees shall be spaced to allow for efficient mowing.

Landscape Design Guidelines

Street Trees

**Minimum Standards**

All required landscaped open areas shall be completely covered with living plant material. Mulch and other materials can be used around required shrub and tree plantings. Landscaping should consist of a combination of sodded turf areas, shrubs and ground cover bed areas. Landscaped areas shall be 100% sod where there are no beds. Landscaping should be done in such a manner to provide a colorful and complementary foreground to the community. Avoid placing large trees and plants in front of significant architectural features. Use the landscape to screen objectionable view. Plant materials shall conform to the standards of the approved plant list and with the city of Denton Ordinance. The quantity of plant material must equal or exceed the minimum number of plants required in these guidelines.

A minimum number of trees shall be planted determined by mature canopy size. Shade trees are to be container grown or machine dug. They are to have a minimum 3" caliper measured twelve inches (12") from the base of the tree and be a minimum of ten feet (10') in height.

Trees shall have an average spread of crown of greater than fifteen feet (15') at maturity. Trees having a lesser average mature crown of fifteen feet (15') may be substituted by grouping the same so as to create the equivalent of fifteen feet (15') crown of spread.

Large trees must be planted four feet (4') or greater from curbs. Large trees shall be placed a minimum of four feet (4') from sidewalks, utility lines, screening walls and/or other structures. Ornamental trees may be placed closer than four feet (4') with approval from the city of Denton. Any reduction in spacing requires a root barrier approved by the city of Denton.

Evergreen trees intended for screening will have a minimum height of six feet (6') at the time of planting.

Shrubs other than dwarf variety shall be a minimum of two feet (2') in height when measured immediately after planting. A screening hedge, where required, shall be planted and maintained so as to form a continuous, unbroken, solid visual screen that will be three feet (3') in height within one (1) year after planting.

Evergreen shrubs intended for required screening shall be a minimum of seven gallons (7 gal) and be capable of attaining six feet (6') in height in two growing seasons.

Ground covers used in lieu of grass must provide complete coverage within one (1) year of planting. Ground cover planting must provide and maintain adequate coverage as approved by DPARD.

Other plant materials in excess of the quantities required in these standards may be small than the required material.

Builders shall be required to submit a landscape plan for DPARD approval, consisting of the required minimums. The landscape design should enhance the aesthetics of the park.

Planting Beds

Planting beds shall be used as accent and focal points only. Enormous planting beds take away valuable parkland and require high levels of maintenance. The focus of planting beds in the DPARD system is to draw attention, beautify the city and welcome residents and visitors to the parks and facilities DPARD offers. It should be noted that garden walks, streetscapes and botanical gardens are outlined in other sections of these standards and follow different guidelines.

## Landscape Design Guidelines

### Planting Beds

By their nature, planting beds contribute to the spatial definition and perception of each park and facility within. The effect planting beds have on perception also greatly influences experience, safety and usage.

Planting beds shall be delineated through the use of:

#### **Shape/Form**

Geometric

- Circular
- Linear

Naturalistic (organic)

- Meandering Lines
- Organic Edges
- Fragmented Edges

#### **Styles**

- Formal
- Informal

#### **Types**

- Drifts/Sweeps
- Dry Stream Beds
- Mass Planting
- Mowstrips

The elements and principles of design shall also be adhered to in the design and development of all planting beds with the intended/expected benefits of:

- Defining space
- Creating unity
- Enhancing function
- Enhancing aesthetics
- Pollution control/reduction
- Sound barrier
- Privacy
- Safety

#### **Bed Construction**

Stake bed preparation or otherwise. Designate the proper locations according to the plans. Obtain approval of final locations before continuing work under this item.

Apply a glyphosate type herbicide to the bed preparation areas (two times, fifteen (15) days apart) to eradicate all existing vegetation. Obtain approval before application of herbicide. Fifteen days after second herbicide application, excavate the bed preparation areas.

All beds are to be left 1" (one inch) below finished grade of adjacent pavement by general contractor. Landscape contractor shall be responsible for fine grading and removal of all debris and clods greater than 1" diameter prior to planting in all areas.

Final finished grading shall be reviewed by the landscape designer. Contractor is responsible for any additional topsoil required to create a smooth condition suitable for planting.

Landscape contractor shall stake out locations of all trees to be planted for review by the landscape designer prior to installing. Landscape designer reserves the right to adjust tree locations in the field as necessary.

## Landscape Design Guidelines

### Planting Beds

Final finished grading shall be reviewed by the landscape designer. Contractor is responsible for any additional topsoil required to create a smooth condition suitable for planting.

Landscape contractor shall stake out locations of all trees to be planted for review by the landscape designer prior to installing. Landscape designer reserves the right to adjust tree locations in the field as necessary.

Shrub/ground cover beds shall be staked for review by the landscape designer prior to excavation and or bed preparation.

Contractor shall also expose root flare of tree 2" above finish grade and determine true grade of root ball while setting grade of tree in field. Always account for settlement of root ball to prevent trees from being planted too deep.

Landscape contractor shall install steel edging between planting beds, lawns, native grass areas and gravel areas.

Landscape designer shall select and approve all trees and specimen shrubs for this project prior to the delivery of materials to the site.

Upon completion of planting, contractor shall remove all wire, plastic, burlap and nylon rope from root balls. All tags and flags shall be removed from all newly installed materials.

Contractor shall remove all debris generated by work operations and must leave entire planting area in a raked condition free of debris, and all paved areas adjoining the planting areas in a broom clean condition ready for final acceptance.

### **Natural Lawns (meadow lawn/not mown)**

Natural Lawns shall be used primarily in undeveloped open space, nature parks and designated sections of developed open space.

The focus of natural lawns in the DPARD system is to draw attention, beautify the city and reduce the stress of urban life. Natural lawns also serve to expand wildlife corridors, reduce stormwater runoff, erosion and heat island effect.

By their nature, natural lawns contribute to the spatial definition and perception of the city as a whole. The effect natural lawns have on perception also greatly influences experience and identity of the city and the park system.

The elements and principles of design shall also be adhered to in the design and development of all natural lawns with the intended/expected benefits of:

- Defining space
- Creating unity
- Enhancing function
- Enhancing aesthetics
- Crime reduction
- Pollution control/reduction
- Sound barrier

## Landscape Design Guidelines

### Rolling Lawns

Rolling Lawns shall be used primarily in developed / undeveloped open space and nature parks. The changes in topography support both active and passive recreation allowing for mystery and surprises as users navigate around berms, mounds and/or niches. Even a small berm represents nature better than a completely flat landscape. The focus of rolling lawns in the DPARD system is to draw attention, beautify the city, reduce the stress of urban life, stimulate imagination and enhance active and passive recreational activities. Rolling lawns also reduce stormwater runoff, erosion and heat island effect.

By their nature, rolling lawns contribute to the spatial definition and perception of the city as a whole. The effect rolling lawns have on perception also greatly influences experience and identity of the city and the park system.

The elements and principles of design shall also be adhered to in the design and development of all natural lawns with the intended/expected benefits of:

- Defining space
- Creating unity
- Enhancing function
- Enhancing aesthetics
- Crime reduction
- Pollution control/reduction
- Sound barrier

The following is a list of approved plant material for use within DPARD. Other plant material may be used if approved by the DPARD, but priority should be given to plants from this palette.

#### **Turf**

All turf area will be installed using solid sod pattern, with joints sanded and rolled twice (min.) to ensure a smooth, even mowable lawn area (as applicable).

**Soil**

Soil

**Top Soil**

Topsoil shall be natural, fertile, friable soil possessing characteristics of representative productive soils in the vicinity. It shall not be excessively acidic or alkaline or contain toxic substances which may be harmful to plant growth. Topsoil, shall be without admixture of subsoil and shall contain a minimum of lumps, stone, stumps, roots of similar substances one inch or more in diameter. Topsoil shall be free from weeds and other noxious materials, topsoil shall not be stripped, collected or deposited while wet. Spread topsoil where necessary to fill low areas to achieve proper drainage.

**Soil Enhancement**

Good soil mixes should be provided. They should include sufficient organic material (30% per tilled depth). Topsoil shall be natural, fertile, friable, soil possessing characteristics of representative productive soil in this vicinity. It shall not be excessively acidic or alkaline or contain toxic substances, which may be harmful to plant growth. Topsoil shall be free from weeds and other noxious materials. Topsoil shall not be stripped, collected or deposited while wet. Existing topsoil at the site will be used for tree planting.

Compost: shall be decomposed, sterile organic material such as cotton hulls, pine bark, mulch or sterile manure products or approved equal. This material shall have been sufficiently composted and shall be free of fungus, grass, weed seed, debris, or any toxic substances. For soil with an alkaline pH condition (6.5 to 10.0) use "New Life Acid Grow" soil conditioner as produced by Soil Building Systems, Inc., Dallas, TX, or approved equal.

For soil with acidic pH condition (4.0 to 6.5) use "Perma Green Compost" as produced by Texas Earth Resources, Inc. Dallas, TX, "New Natural Grower" as produced by Soil Building Systems, Inc., Dallas, TX, or approved equal.

Sulfur Soil: Shall be Wacco brand or approved equal.

**Planting Soil Mixture**

All bed preparation shall be living earth azalea soil blend. Bed prep around existing trees (1) lightly hand fork/aerate around roots of existing trees. Gently work in up to 2" of living earth azalea soil blend, taking care not to smother or damage tree roots. General bed prep (2) Excavate as necessary to allow backfill of a 12" layer of living earth azalea soil blend. Prior to backfill, till sub grade to a 6-8" depth to break hard pan. Flood with water to ensure good drainage. If good drainage does not exist, stop work and notify landscape designer. Finished bed shall be mounded in the center or high in the rear of bed to ensure good drainage taking into account for settlement and displacement from shrubs. Till bedding soil into sub grade to create a fine, loose, friable soil suitable for planting. Do not damage roots of existing trees. Minimize preparation / tilling under existing tree canopies. Bed preparation (3) same, except add 8" layer of living earth azalea soil blend. Bed preparation \*4) same except add 18" layer of living earth azalea soil blend



<b>Grading</b>	
Grading	<p>The surface of all planting areas shall slope and shall be indicated as such on plans for new development. Grading shall be done in a manner that does not interfere with the established drainage pattern over any property, except as approved in writing by DPARD. Whenever possible, development shall work with the natural contours and seek solutions that minimize the impact of grading with respect to major alterations of existing grades. Grading shall not extend onto adjacent properties without approval of the owners of those adjacent properties. Berms are to be graded in gentle, undulating, naturalistic forms, and not straight or steep slopes. Provisions are to be made for drainage around or through berms as required. Swales are to be graded shallow and wide to slow runoff and improve water quality through natural bio-filtration. When manipulating slopes, avoid steep cuts and provide a natural look. Steep slopes greater than 3:1 should be broken with retaining walls or steps. Terracing of lawns is discouraged. All retaining walls shall be submitted to, and approved by DPARD prior to construction. Berms, slopes and swales may be used to define spaces, screen undesirable views, and reduce noise and high winds but should not exceed three (3) feet of horizontal distance to one foot of vertical height (3:1 slope). This will permit greater ease of mowing and general maintenance. Extensive cut/fill slopes are discouraged. Fill slopes shall not exceed 3:1. Cut slopes may be 3:1 if the soil's natural angle of repose allows. Terracing which utilizes retaining walls may be used where the space cannot accommodate the maximum slope, provided that retaining walls shall not exceed 24" in height, with a minimum of five (5) feet between adjacent walls. Retaining wall locations are subject to DPARD approval. All retaining walls shall be constructed of materials complementary to the aesthetics of the immediate park and the park system.</p>
<b>Irrigation</b>	
Irrigation	<p>Automatic irrigation systems are required in the DPARD system. The following items apply when designing an irrigation system. The environment of the area – wind, rain, temperature, sun exposure and topography – should be considered when designing a system. Drip or bubbler irrigation systems are recommended for trees. Sprinkler heads shall be located to effectively and evenly water intended area with 100% coverage of the landscaped areas in all parks, while minimizing overthrow onto impervious surfaces.</p> <p>Watering shall be scheduled so as to not over or under water the landscaping. Care shall be taken to avoid irrigation spray and runoff onto adjacent property. All irrigation systems shall be designed and installed by a licensed irrigator in the state of Texas and be equipped with a back flow prevention device as mandated by appropriate local code. Irrigation heads shall be located out of the path of pedestrians. Irrigation systems shall be maintained. Such maintenance shall include draining and servicing sprinkler systems and conducting operational checks on a regular basis to ensure proper performance of the system.</p>
<b>Mulching</b>	
Mulching	<p>All plants will be mulched after planting with at least a two inch deep layer of mulch material entirely covering the area around each plant to hold soil moisture and to help prevent weeds and soil compaction. Standard mulch: Shall be no float cypress mulch. Large expanses of mulch or bed areas without substantial shrub or ground cover plantings are unacceptable. Other materials to be used in place of mulch will require submittal to the DPARD for approval. For surface application, use no-float cypress mulch. Furnish mulch that is free of visible glass, metal, rock, plastic, paper, large pieces of wood, dirt clods, debris, or any unsuitable material that would affect the quality and appearance of the mulch. Provide a 3" layer of no-float cypress mulch over all installed trees and a 2" layer over all shrubs and ground cover plantings.</p>

<b>Weed Block</b>	
Weed Block	DPARD approval is required for the installation of weed blocks. The use of solid plastic sheeting or polyethylene over ground plane areas is strictly prohibited. If landscape fabric is used, such fabric shall be of an A.B.S. or Nylon A.B.S. composite type to allow the free flow of water, air, and gases to and from the soil.
<b>Plant Material</b>	
Plant Material	<p>DPARD requires submission of planting plans for all new development. Plants shall be chosen with regard to the region's climate and their ultimate size, shape and growth rates. ALL PLANT MATERIAL SHALL BE EQUAL TO OR EXCEED THE MEASUREMENTS SPECIFIED ON THE PLANTING PLAN WHICH ARE THE MINIMUM ACCEPTABLE SIZES.</p> <p><b>Quality Assurance</b></p> <p>DPARD may inspect plant material either at place of growth or at site before planting, for compliance with requirements for genus, species, variety, size and quality. DPARD retains right to further inspect plant material for size and condition of balls and root systems, insects, injuries and latent defects, and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected plant material immediately from project site.</p> <p>Inspection of work and planting to determine completion of the work exclusive of possible warranty plant replacement will be made by the builder. The builder needs not less than one (1) week notice prior anticipated date, enabling him to schedule the inspection.</p> <p>Acceptance of all work and planting, exclusive of possible plant replacements subject to guarantee, will be granted to the landscape contractor, provided there are no deficiencies at inspection time.</p> <p>After inspection, the contractor will be notified by a letter of acceptance of work by the builder. All trees shall be guaranteed for one year. Guarantee shall begin upon completion of the contractor's work and acceptance of work by the builder. During and at the end of the guaranteed period, inspection will be made by the DPARD and the builder. Any plant material required under this contract that is dead or not in satisfactory growth condition shall be removed and replaced with the same size and kind of plant specified, at no cost to DPARD. Substitution of tree species may be made at the DPARD's discretion. The builder assumes liability for replacement of any installed tree without limit for a period of one year from the date of installation.</p> <p><b>Plant Handling</b></p> <p>Handle all plant material in accordance with best horticultural practices so that roots and root balls are adequately protected from mechanical injury, sun, drying winds, and any other detrimental effects. Plants shall not be bound with nylon rope or wire in a manner that would damage bark, break branches or destroy their natural shape.</p> <p><b>Container Grown Plants</b></p> <p>Plants grown in containers shall be full or heavy grade and shall have been growing in the specified size container for one full growing season prior to delivery. Grow-bag conversions are acceptable. ROOT-BOUND PLANTS WILL BE REJECTED.</p>

## Plant Material

Plant Material

### Delivery of Plant Materials

Plants shall be packed and protected during delivery and after arrival at the site, against climatic, seasonal, wind damage, or other injuries, and at no time shall be allowed to dry out.

### Protection of Plant Materials

All plants shall be handled so that roots are adequately protected at all times from drying out and from other injury. The balls of balled plants, which cannot be planted immediately on delivery, shall be "heeled in" for protection with soil mulch, straw, or other acceptable material. Container grown plants will be mulched and watered on a daily basis during storage.

### Nursery Stock

All Plant material to be used shall be nursery grown in containers or balled & burlapped. All plants shall be healthy and have quality form typical of its species. Trees to be planted shall be of uniform shape and height, and shall have straight trunks. Substitutions will be permitted only upon submission of proof that a plant is not obtainable and authorization by the DPARD has been granted by a change order providing for the use of the nearest equivalent obtainable size or variety of plant having the same essential characteristics with an equitable adjustment of contract price.

### Nomenclature

The names and locations of all plants shall be noted on planting plans. The nomenclature of all plant materials shall be per Standardized Plant Names, 1942 Edition, and Manual of Cultivated Plants by L.H. Bailey.

### Quality and Size

All plant materials shall be first class representatives of their normal species or variety unless otherwise specified. They shall have a habit or growth that is normal for the species and shall be healthy, shapely, well-rooted, and vigorous. All plant materials shall be free from insects pests, plant diseases, and injuries. The containers and balls of all plants delivered to the site shall be free from any weeds or grasses which could be considered noxious or objectionable; i.e., nutgrass or Johnson grass.

They shall be measured after pruning with the branches in normal position. The requirements for measurement, branching, grading, quality, balling and burlapping of plants specified generally follow the code of the standards currently recommended by the American Association of Nurserymen, Inc., in the American Standards for Nursery Stock.

Plant material shall be measured and sized according to the latest edition of "American Standard For Nursery Stock" as approved by the American National Standards Institute, Inc., Caliper size of canopy trees are to be measured per local city landscape ordinance.

All plant material shall conform to the size specifications (caliper, height and spread) given in the plant schedule and shall be nursery grown unless specified otherwise. All planting material to be in accordance with the latest edition of American Association of Nurserymen standards. Any plant substitution shall be approved by the landscape designer prior to purchase.

**Plant Material**

<p>Plant Material</p>	<p><b>Flora</b></p> <p>DPARD environmental efforts include a focus on ensuring the continued viability and diversity of indigenous plant and wildlife communities, promoting the use of plants naturally adapted to local conditions, and educating citizens about the region's natural heritage and the values and uses of native plants.</p> <p>A healthy native plant community serves many important functions:</p> <ul style="list-style-type: none"> <li>• Provides habitat and food for native wildlife</li> <li>• Preserves critical habitat for rare, threatened and endangered animals and plants</li> <li>• Enhances air quality by filtering sediments (and pollutants attached to sediments) from runoff before the water enters streams</li> <li>• Stabilizes stream banks and hillside slopes by dissipating erosive forces</li> <li>• Enhances local micro climate, and reduces water and energy needs</li> <li>• Provides a place for native plants to continue to exist</li> <li>• Provides scenic and recreational and educational values, which in turn, enhance Denton's livability native plants are part of the region's heritage</li> </ul> <p>The DPARD Plant List is comprised of two lists and supporting information: the City of Denton Plant List and the DPARD Plant List. Both plant lists are integral to the City of Denton's natural resource protection program and management strategy. Only those plants listed on these two lists are allowed to be planted within the Denton Park System. Native plants are also encouraged to be planted in medians and rights of way (R.O.W.).</p> <p>In some situations, tree removal may require a permit and tree replacement. Please consult the City of Denton Zoning Code, other City Codes, and City staff for more detailed analysis of applicable requirements relating to removal and installation of plants.</p>
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**Shade & Flowering Trees**

<p>Shade &amp; Flowering Trees</p>	<p>General Specifications: (ANSI Z60.1-1996 Section 1.1)</p> <p>Caliper and Height Measurement (ANSI Z60.1-1996 Section 1.1.1)          In size grading balled &amp; burlapped shade trees (Types 1 and 2), caliper shall take precedence over height. In size grading balled &amp; burlapped small and flowering trees (Types 3 and 4), height shall take precedence up to 6 feet; thereafter, caliper takes precedence.</p> <p>In size grading bare root and container-grown trees, height shall take precedence to 6 feet for Types 3 and 4, and 8 feet for Types 1 and 2; thereafter, caliper takes precedence.</p> <p>In size-grading trees grown in-ground fabric bags, caliper shall take precedence.</p> <p>Caliper of the trunk shall be taken 6 inches above the ground up to and including 4 inch caliper size, and 1 inches above the ground for larger sizes.</p> <p>Seldom are tree trunks perfectly round. Caliper measurement may be taken with "slot" type caliper, "pincer" type caliper, or diameter tape.</p>
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## Shade & Flowering Trees

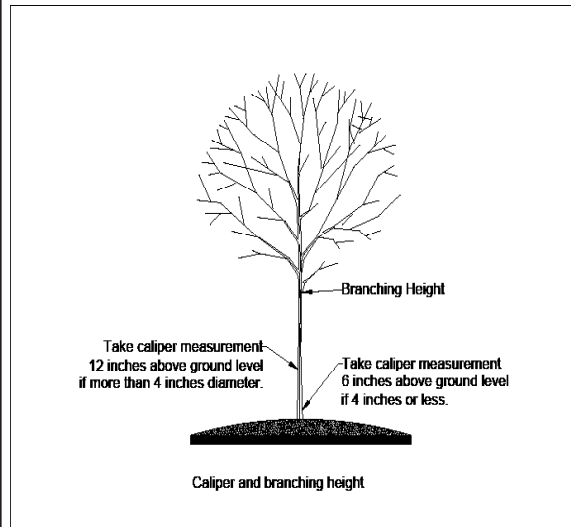
### Shade & Flowering Trees

#### Height of Branching - Street Trees (ANSI Z60.1-1996 Section 1.1.2)

Bid specifications for trees for street plantings should specify the height to which the tree should be free of branching. Height of branching should bear a relationship to the size and kind of tree, also, so that the crown of the tree will be in good balance with the trunk as the tree grows.

Trees with ascending branches may be branched 1 foot or more below the standard height and still provide proper clearance.

#### Caliper and Branching Height



#### Height Relationship To Caliper by Types (ANSI Z60.1-1996 Section 1.1.2)

It is recognized that climatic conditions in different sections of the country produce trees of different caliper height proportions. Trees from one region of the country may have less caliper in proportion to height while trees from another section may have greater caliper in proportion to height than shown in the following table. The table shows the average height range and the maximum heights permitted.

#### Type 1 Shade Trees (ANSI Z60.1-1996 Section 1.1.3.1)

The height relationship to caliper, for most standard shade trees, will be as follows:

**Height / Caliper relationship for Type 1 shade trees**

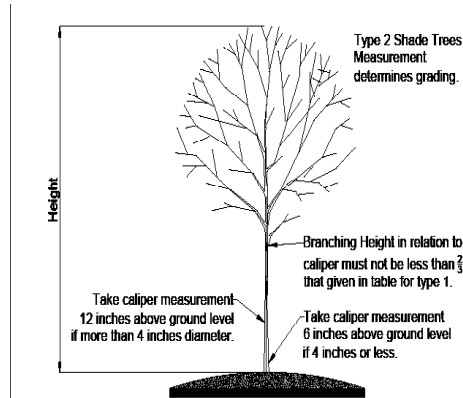
Caliper	Average Height Range	Maximum Height	
1/2 in.	5 to 6 ft.	8 ft.	W/ DPARD approval
3/4 in.	6 to 8 ft.	10 ft.	w/ DPARD approval
1 in.	8 to 10 ft.	11 ft.	w/ DPARD approval
1 1/4 in.	8 to 10 ft.	12 ft.	w/ DPARD approval
1 1/2 in.	10 to 12 ft.	14 ft.	w/ DPARD approval
1 3/4 in.	10 to 12 ft.	14 ft.	w/ DPARD approval
2 in.	12 to 14 ft.	16 ft.	Recommended
2 1/2 in.	12 to 14 ft.	16 ft.	Recommended
3 in.	14 to 16 ft.	18 ft.	<b>Preferred</b>
3 1/2 in.	14 to 16 ft.	18 ft.	Recommended
4 in.	16 to 18 ft.	22 ft.	Recommended
5 in.	18 ft. and up	26 ft.	Recommended

## Shade & Flowering Trees

Shade & Flowering Trees

### Type 2 Shade Trees (ANSI Z60.1-1996 Section 1.1.3.2)

Trees of slower growth which will not usually attain the height measurement in relation to caliper as in Type 1. The height, however, should not be less than two-thirds the height relationship given for Type 1.



### Measurement - Type 2 Shade Trees

### Type 3 Small Upright Trees (ANSI Z60.1-1996 Section 1.1.3.3)

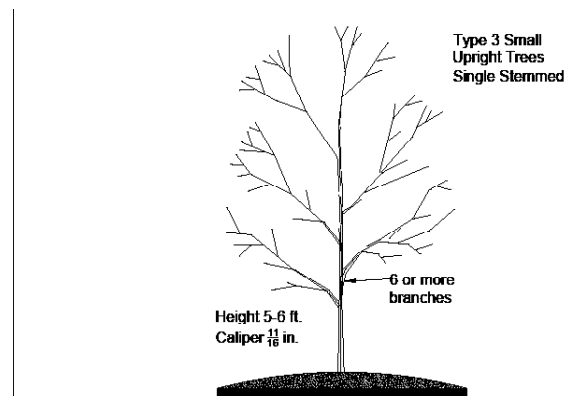
This is a broad group including small, upright trees which may be grown as single stem plants, as clumps, or as shrubs.

Up to 6 feet, height shall be the governing measurement. Sizing shall be in 1 foot intervals.

Up to 6 feet and over, caliper takes precedence. A height relative to caliper may be specified but shall not be considered in determining diameter ball sizes.

For single stem plants, the minimum relationship for height, caliper and branching will usually be as follows:

- 2 ft., 5/16 in. caliper, three or more branches
- 3 ft., 7/16 in. caliper, four or more branches
- 4 ft., 9/16 in. caliper, five or more branches
- 5 ft., 11/16 in. caliper, six or more branches
- 3/4 in. caliper, seven or more branches



### Small Upright Trees - Type 3 - Single Stemmed

## Shade & Flowering Trees

### Shade & Flowering Trees

#### **Type 4 Small Spreading Trees (ANSI Z60.1-1996 Section 1.1.3.4)**

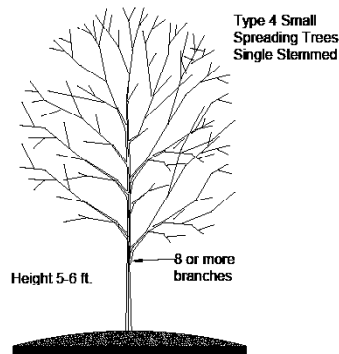
This is a broad group including small, spreading trees of dwarf growth habit and certain large shrubs grown in tree or multi-stem form.

Up to 6 feet, height shall be the governing measurement. Sizing shall be in 1 foot intervals.

At 6 feet and over, caliper takes precedence. A height relative to caliper may be specified but shall not be considered in determining minimum diameter ball sizes.

For single stem plants, the minimum branching will be as follows:

- 2 ft., four or more branches
- 3 ft., five or more branches
- 4 ft., seven or more branches
- 5 ft., eight or more branches
- 3/4 in. caliper, eight or more branches



Small Spreading Trees - Type 4 - Single Stemmed

#### **Trees for other Uses (ANSI Z60.1-1996 Section 1.1.4)**

Trees for special uses should be branched or pruned naturally according to type. Where a form of growth is desired which is not in accordance with a natural growth habit, this form should be so specified.

Cut back or sheared - trees may be pruned back so as to multiply the branching structure and to develop a more formal effect.

Topiary - shall not be used under any circumstances in the DPARD system.

#### **Multi-Stem Trees (ANSI Z60.1-1996 Section 1.1.5)**

Multi-stem trees occur naturally in many genera, and other kinds may be grown multi-stem in the nursery. Multi-stem trees may be further defined as Clump form and Shrub form.

**Clump Form:** Having two or more main stems arising from the root crown or from the main trunk not more than 6 inches from the ground level. The main stems shall have branching typical for the species or cultivar

**Shrub Form:** A tree with multiple stems arising from the root crown in the manner of a shrub.

## Shade & Flowering Trees

### Shade & Flowering Trees

#### Measurement of multi-stem trees (ANSI Z60.1-1996 Section 1.1.5.1)

In size grading multi-stem trees, height shall be the governing measurement. Height shall be defined as the measurement taken from the ground level to the average uppermost point of growth of the plant.

Sizes shall be listed in 1 foot increments to 8 feet and 2 foot increments thereafter. For purposes of simplicity, only one size per "grade" will be listed. That size will be the minimum size allowable for that grade and shall include plants from that size up to, but not including, the next larger size.

Although height will be the determining factor, for landscape specifications other definitive measurements may be used to further "picture" the desired plant. Such added factors as the number of stems and plant width may be specified.

#### Ball sizes for multi-stem trees

Average Height	Minimum Diameter Ball	
4 ft.	14 in.	w/ DPARD approval
5 ft.	16 in.	w/ DPARD approval
6 ft.	18 in.	w/ DPARD approval
7 ft.	20 in.	w/ DPARD approval
8 ft.	22 in.	w/ DPARD approval
10 ft.	24 in.	w/ DPARD approval
12 ft.	28 in.	Preferred
14 ft.	32 in.	Recommended
16 ft.	38 in.	Recommended
18 ft.	42 in.	Recommended
20 ft.	48 in.	Recommended

Note: Specifications for balling and burlapping multi-stem trees with a spreading growth habit shall provide for balls one size larger than sizes specified above for multi-stem trees with ascending growth habit.

#### Specimen Trees (ANSI Z60.1-1996 Section 1.1.7)

This recommendation for specification writers applies to both deciduous and evergreen trees. When "specimen" trees are called for in landscape specifications, the desired specimen characteristics must be stated, including deviations from standard minimums for caliper, height, fullness of branching, rootball, etc.

#### Box Specimen Trees (ANSI Z60.1-1996 Section 1.1.7.1)

##### Box size for specimen trees

Box Size (Inches)	Caliper (inches)					Preference
	Group I	Group II	Group III	Group IV	Group V	
20	1 1/4	1 1/2	1 1/2	1 1/2	2	w/ DPARD approval
24	1 1/2	2	1 3/4	2	2 1/2	w/ DPARD approval
30	2 1/2	3	2	2 1/2	3	<b>Preferred</b>
36	3	3 1/2	2 1/2	3	3 1/2	Recommended
42	3 1/2	4	3	3 1/2	4	Recommended
48	4	4 1/2	3 1/2	4	5	Recommended
60	4 1/2	5	4	4 1/2	6	Recommended

#### Bare Root Specifications (ANSI Z60.1-1996 Section 1.2)

Bare root trees shall not be used in the DPARD system without written authorization from



## Shade & Flowering Trees

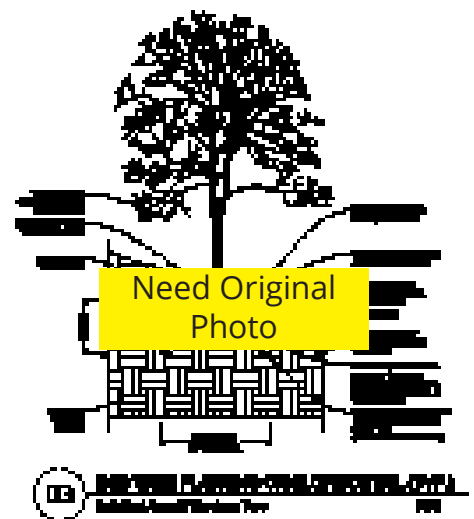
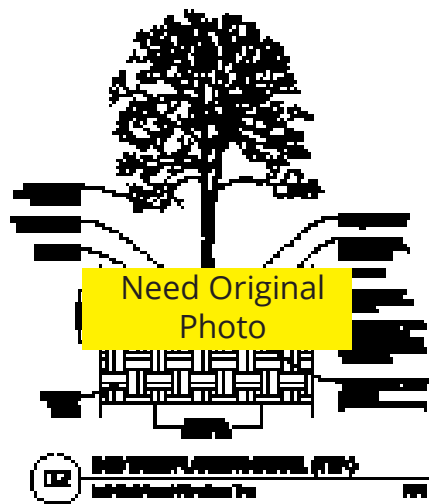
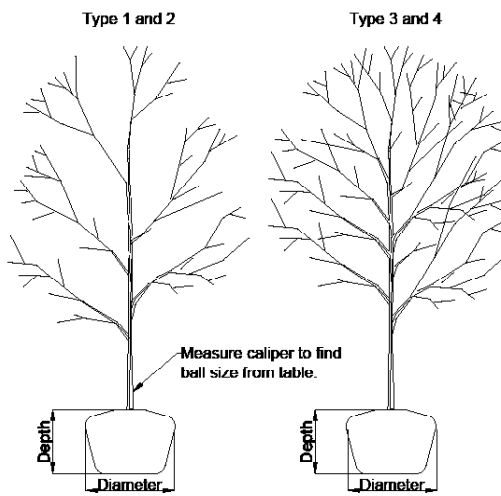
Shade & Flowering Trees

### Balling and burlapping (BB) specifications (ANSI Z60.1-1996 Section 1.3)

Plants designated "B&B" on plans shall be balled and burlapped. Balls shall be firmly wrapped with burlap or similar materials and bound with twine, cord, or wire mesh where necessary to prevent breaking or cracking of the ball during the process of planting, the ball may be secured to a platform.

Ball sizes should always be of a diameter and depth to encompass enough of the fibrous and feeding root system as necessary for the full recovery of the plant. It is recognized that balling of nursery grown stock can be accomplished by hand digging or by mechanical devices especially designed for nursery conditions. The use of digging machines is an acceptable nursery practice.

It is recognized that balling of nursery grown stock can be accomplished by hand digging or by mechanical devices especially designed for nursery conditions. The use of digging machines is an acceptable nursery practice.



## Shade & Flowering Trees

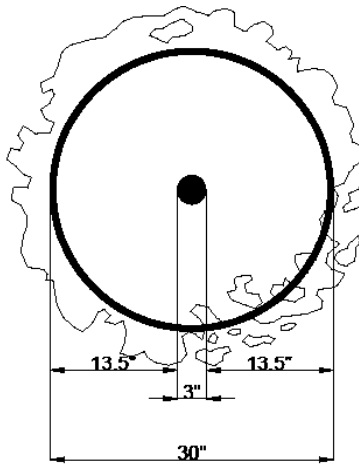
### Shade & Flowering Trees

The following table represents the recommended minimum sizes of balls for trees which are being grown in the nursery under favorable growing conditions and which have received the proper cultural treatment to develop a well branched root system.

These specifications are for plants either hand dug or machine dug with the ball of earth in which they are growing.

Plants dug to specifications in the table should have the trunk or stem of the plant in the center of the earth ball. A tolerance of 10% of the diameter is the maximum deviation allowable.

It is recognized that plants having a coarse or wide spreading root system because of natural habit of growth, soil condition, infrequent transplanting practice, or plants which are moved out of season, would require a ball in excess of the recommended sizes.



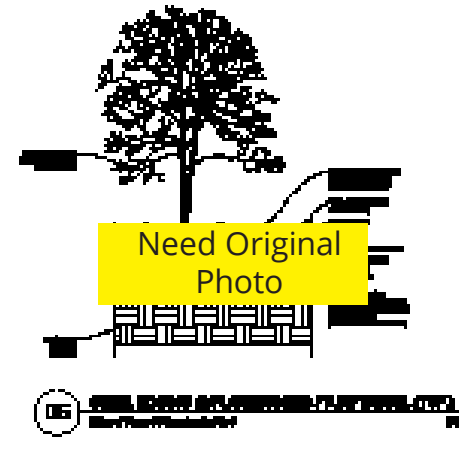
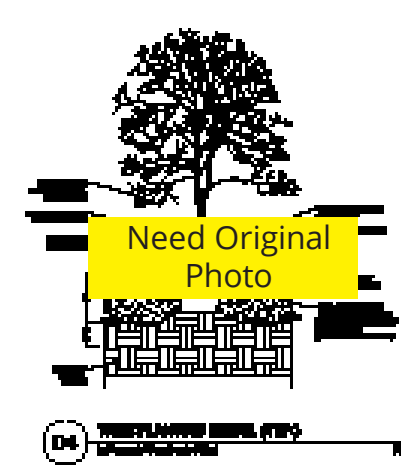
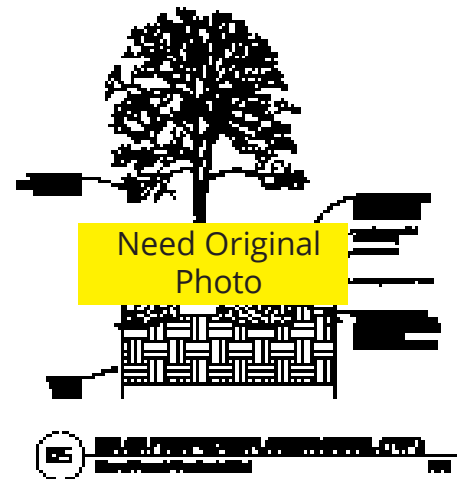
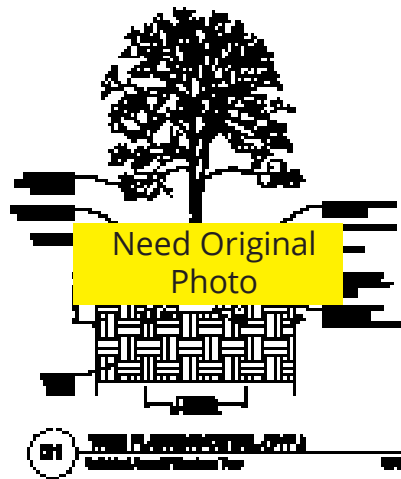
**Example: Trunk in center of earth ball**

Ball Sizes - Nursery Grown Trees Shade Trees Types 1 & 2		
Caliper	Minimum Diameter Ball	
Inches	Inches	
1/2	12	w/ DPARD approval
3/4	14	w/ DPARD approval
1	16	w/ DPARD approval
1 1/4	18	w/ DPARD approval
1 1/2	20	w/ DPARD approval
1 3/4	22	w/ DPARD approval
2	24	Recommended
2 1/2	28	Recommended
3	32	Preferred
3 1/2	38	Preferred
4	42	Recommended
4 1/2	48	Recommended
5	54	Recommended
5 1/2	57	Recommended
6	60	Recommended
7	70	Recommended
8	80	Recommended

## Shade & Flowering Trees

### Shade & Flowering Trees

Ball Sizes - Nursery Grown Trees Shade Trees Types 3 & 4		
Feet / Inches	Inches	
2 ft.	10	w/ DPARD approval
3 ft.	12	w/ DPARD approval
4 ft.	14	w/ DPARD approval
5 ft.	16	w/ DPARD approval
3/4 in.	16	w/ DPARD approval
1 in.	18	w/ DPARD approval
1 1/2 in.	20	w/ DPARD approval
1 3/4 in.	22	w/ DPARD approval
2 in.	24	Recommended
2 1/2 in.	28	Recommended
3 in.	32	Preferred
3 1/2 in.	38	Preferred
4 in.	42	Recommended
4 1/2 in.	48	Recommended
5 in.	54	Recommended
5 1/2 in.	57	Recommended
6 in.	60	Recommended
7 in.	70	Recommended
8 in.	80	Recommended



**Shade & Flowering Trees**

Shade & Flowering Trees

Ball Sizes - Nursery Grown Trees Shade Trees Types 3 & 4		
Feet / Inches	Inches	
2 ft.	10	w/ DPARD approval
3 ft.	12	w/ DPARD approval
4 ft.	14	w/ DPARD approval
5 ft.	16	w/ DPARD approval
3/4 in.	16	w/ DPARD approval
1 in.	18	w/ DPARD approval
1 1/2 in.	20	w/ DPARD approval
1 3/4 in.	22	w/ DPARD approval
2 in.	24	Recommended
2 1/2 in.	28	Recommended
3 in.	32	Preferred
3 1/2 in.	38	Preferred
4 in.	42	Recommended
4 1/2 in.	48	Recommended
5 in.	54	Recommended
5 1/2 in.	57	Recommended
6 in.	60	Recommended
7 in.	70	Recommended
8 in.	80	Recommended

**Collected (ANSI Z60.1-1996 Section 1.3.2)**

It is generally recognized that plants growing in their native state will sustain a much more severe shock when transplanted than the same kind of plants when nursery grown. If collected material is moved, a considerably larger ball than that recommended for transplanted nursery stock is required, because of the unrestricted root development and the varying conditions of soil in which such material is found.

The minimum ball sizes shall be equal to those specified in the table for the next larger size nursery grown stock.

For the purposes of this standard, trees collected from wild or native stands may be considered nursery grown when they have been successfully reestablished in the nursery row and grown under regular nursery cultural practices for a minimum of two growing seasons and have attained adequate root and top growth to indicate full recovery from transplanting into the nursery row.

**Seedling Trees and Shrubs (ANSI Z60.1-1996 Section 10)**

This section is to cover plants used for wildlife corridors, erosion control, and/or woodlot plantings.

## Shade & Flowering Trees

Shade & Flowering Trees

Quality Definition (ANSI Z60.1-1996 Section 10.1.1)

The quality of all seedling trees and shrubs is assumed to be normal for the species or variety unless otherwise designated. All plants are to have developed root systems, to be free of insects and diseases as well as mechanical injuries, and in all respects to be suitable for field planting.

Tops or roots will not be trimmed unless specified by grower or requested by DPARD.

**Designation (ANSI Z60.1-1996 Section 10.1.2)**

Types

C = Cutting

U = Unrooted Cutting

G = Grafted

L = Layered

S = Seeding

M = Micropropagated or Tissue Cultured

D = Division

Cultural

R = Root Pruned

P = Pot or Container Grown

T = Transplanted (one per time)

B = Bed Grown

O = Not Transplanted

Coll. = Plants collected from the wild must be so designated.

Age = Sum of numbers following above codes.

Example: S2T1T1 (4 year plant, 2 years in seedling bed, transplanted twice, one year each transplanting)

Method of Measurement (ANSI Z60.1-1996 Section 10.2)

Age is not important when height or caliper is specified.

Deciduous or Hardwood (ANSI Z60.1-1996 Section 10.2.1)

When heights are to govern, the caliper specification is minimum, and when caliper is to govern, the height specification is minimum.

**Minimum heights and root lengths for seedling calipers.**

Caliper	Min. Height	Min. Root Length	
1/16 in.	3 in.	4 in.	w/ DPARD approval
3/32 in.	3 in.	5 in.	w/ DPARD approval
1/8 in.	6 in.	6 in.	w/ DPARD approval
3/16 in.	12 in.	8 in.	w/ DPARD approval
1/4 in.	18 in.	10 in.	Recommended
3/8 in.	24 in.	12 in.	Preferred

**Shade & Flowering Trees**

Shade & Flowering Trees

**Minimum calipers for seedling heights and root length**

Height	Min. Caliper	Min. Root Length	
3 in.	1/16 in.	4 in.	w/ DPARD approval
6 in.	1/16 in.	4 in.	w/ DPARD approval
12 in.	3/32 in.	5 in.	w/ DPARD approval
18 in.	1/8 in.	6 in.	w/ DPARD approval
2 ft.	3/16 in.	8 in.	w/ DPARD approval
3 ft.	1/4 in.	10 in.	Recommended
4 ft.	3/8 in.	10 in.	Recommended
5 ft.	7/16 in.	12 in.	Preferred

**Container Grown (ANSI Z60.1-1996 Section 10.3)**

All container grown seedling trees and shrubs shall be healthy, vigorous, well rooted, and established in the container in which they are growing. They shall have tops of good quality and be in a healthy growing condition. A container grown young plant shall be in that container a sufficient time that fibrous roots are formed so the shape will remain and the medium will hold together when removed from the container.

All container growing seedling trees and shrubs sold in containers shall be graded by plant size or caliper, and container size.

**Annual Plants**

**Bog Plants**

**Ground cover Plants**

**Ornamental Grass Plants**

**Perennial Plants (ANSI Z60.1-1996 Section 12)**

Herbaceous perennial plants should be specified by type based on the form in which they are marketed. Propagation methods should be designated.

**Types (ANSI Z60.1-1996 Section 12.1.1)**

Acceptable Types for use in DPARD

Container Grown - grown to a specified size in a container. Plants grown in containers shall be full or heavy grade and shall have been growing in the specified size container for one full growing season prior to delivery. Grow-bag conversions are acceptable. ROOT-BOUND PLANTS WILL BE REJECTED.

Unacceptable Types for use in DPARD

Bare Root - free or substantially free of any soil or growing media.

Field Potted - field grown plants which are potted for delivery as they are dug from the field

## Shade & Flowering Trees

Shade & Flowering Trees

### Propagation Method Designations (ANSI Z60.1-1996 Section 12.1.2)

D = Division

S = Seedling

C = Cutting

G = Grafted

L = Layered

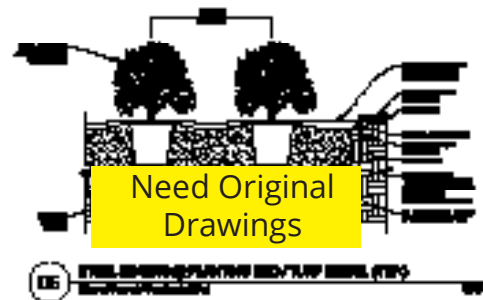
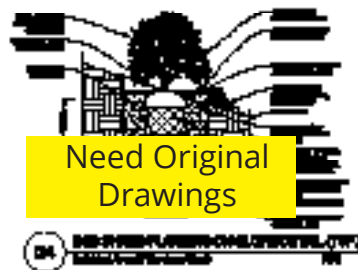
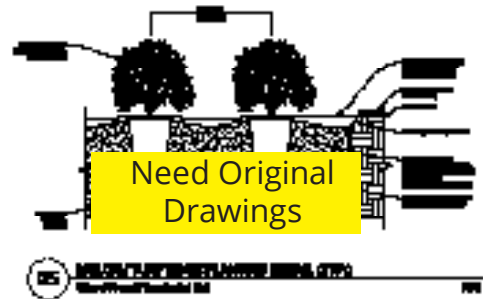
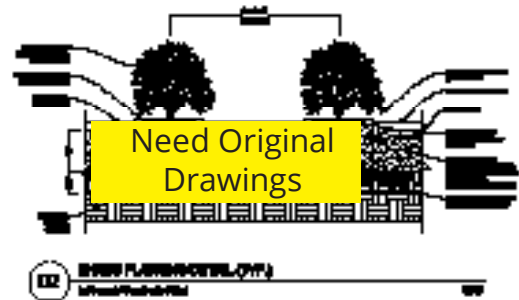
M = Micropropagated or tissue cultured.

Coll. = Individual plants collected directly from the wild and grown on in a nursery.

### Container Specifications (ANSI Z60.1-1996 Section 12.1.3)

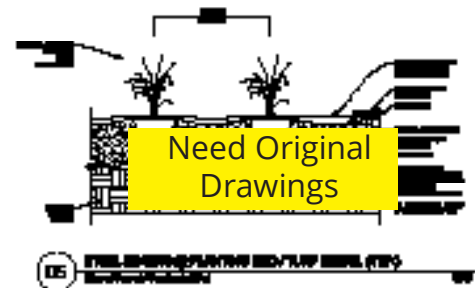
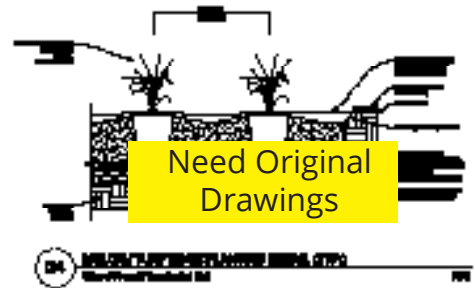
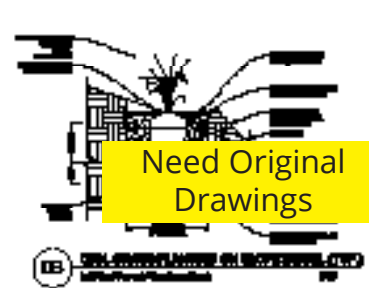
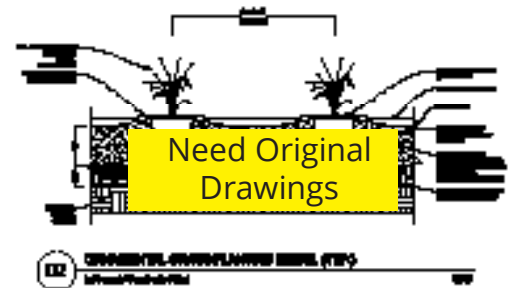
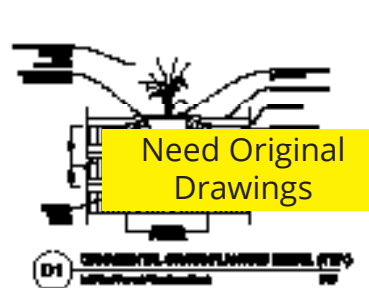
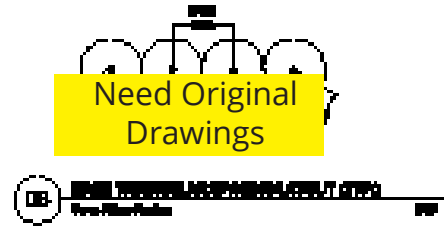
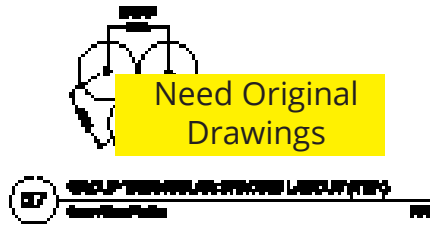
All Container grown perennial plants shall be healthy, vigorous, well rooted, and established in the container in which they are growing. A container grown perennial plant shall have a well-established root system reaching the sides of the container to maintain a firm root ball.

All container grown perennial plants sold in containers, shall be graded by plant size and container size. Plant size references to the minimum size for a grade. All other container grown perennial plants should be sold by container size.



Shade & Flowering Trees

Shade & Flowering Trees





Shade & Flowering Trees

Shade & Flowering Trees

**Flora: Turf Grass**

The following turf grass make up the approved turf grasses list for the Denton Park System. Any substitutions must be approved by the Denton Parks and Recreation Department and be placed on the City of Denton Approved Plant List.

All turf must be suitable for USDA Hardiness Zone 8.

**Bermuda**  
A

**Buffalo Grass**  
R

**Rye Grass**  
t

Zone:  
Height:  
Width:

Zone:  
Height:  
Width:

Zone:  
Height:  
Width:

There shall be 15' between vertical obstacles in turf areas whenever possible. The minimum distance between vertical objects shall be 7 feet for mower access.

Design for continuous mowing, take care to avoid the creation of dead ends, tight corners or areas where a mower cannot easily reach.

Maximum mowing slopes for rough turf or natural areas shall be less than 5:1.

Groomed turf slopes shall be less than 4:1, with less being preferable.

Irrigation systems shall take into account solar aspect, wind and topography to minimize the overuse of water.

## Irrigation

### Control Valves

Type of Zone	Brand	Model	Link
Drip Zones	Rain Bird	XCZ-100-PRB-COM	<a href="http://www.rainbird.com/landscape/products/dripControl/XCZ-100-PRB-COM.htm">http://www.rainbird.com/landscape/products/dripControl/XCZ-100-PRB-COM.htm</a>
Master Valve 1"	Rain Bird	100-PEB	<a href="http://www.rainbird.com/landscape/products/valves/PEB_PESBseries.htm">http://www.rainbird.com/landscape/products/valves/PEB_PESBseries.htm</a>
Master Valve 1.5"	Rain Bird	150-PEB	<a href="http://www.rainbird.com/landscape/products/valves/PEB_PESBseries.htm">http://www.rainbird.com/landscape/products/valves/PEB_PESBseries.htm</a>
Master Valve 2"	Rain Bird	200-PEB	<a href="http://www.rainbird.com/landscape/products/valves/PEB_PESBseries.htm">http://www.rainbird.com/landscape/products/valves/PEB_PESBseries.htm</a>
Flow Meter	Netafilm	1" Water Meter Cast Iron	<a href="https://www.netafimusa.com/agriculture/products/water-meters/m-wmr-series-water-meters/">https://www.netafimusa.com/agriculture/products/water-meters/m-wmr-series-water-meters/</a>
Flow Meter	Netafilm	2" Water Meter Cast Iron	<a href="https://www.netafimusa.com/landscape/products/water-meters/water-meters/">https://www.netafimusa.com/landscape/products/water-meters/water-meters/</a>
Isolation Valve	Spears HD	CWV	<a href="http://www.parts.spearsmfg.com/ProductDetails.aspx?pid=245">http://www.parts.spearsmfg.com/ProductDetails.aspx?pid=245</a>
Quick Coupler	Rain Bird	33-DRC	<a href="http://www.rainbird.com/landscape/products/valves/quickCouplingValves.htm">http://www.rainbird.com/landscape/products/valves/quickCouplingValves.htm</a>

### Drip Tubing and Fittings

Type of Tubing/ Fitting	Brand	Model	Link
Standard Drip	Rain Bird	XFS-09-12	<a href="http://www.rainbird.com/landscape/products/dripline/XFS.htm">http://www.rainbird.com/landscape/products/dripline/XFS.htm</a>
Check Valve Drip	Rain Bird	XFCV-09-12	<a href="http://www.rainbird.com/landscape/products/dripline/XFCV.htm">http://www.rainbird.com/landscape/products/dripline/XFCV.htm</a>
Drip Tube Fittings	Rain Bird	XF™ Series 17mm Insert Fittings	<a href="http://www.rainbird.com/landscape/products/dripDistribution/XFdriplineInsertFittings.htm">http://www.rainbird.com/landscape/products/dripDistribution/XFdriplineInsertFittings.htm</a>
Tree Bubbler	Hunter	PCN-50	<a href="https://www.hunterindustries.com/irrigation-product/nozzles/bubblers-bubbler-nozzles">https://www.hunterindustries.com/irrigation-product/nozzles/bubblers-bubbler-nozzles</a>
Tree Bubbler Head 4"	Rain Bird	1804-SAM-PRS	<a href="https://www.rainbird.com/products/1800-sam-prs-series-spray-heads">https://www.rainbird.com/products/1800-sam-prs-series-spray-heads</a>
Operation Indicator	Rain Bird	XFS OPERIND X17500	<a href="https://www.rainbird.com/documents/drip/bro_OperationIndicatorSellSheet.pdf">https://www.rainbird.com/documents/drip/bro_OperationIndicatorSellSheet.pdf</a>

### Controllers

Make	Brand	Model	Link
Motorola	IRRInet AC/DC	(Varies by number of zones and distance to base unit)	<a href="http://motorolairrigation.com/products/icc-pro/">http://motorolairrigation.com/products/icc-pro/</a>
		Irrinet ACE or Irrinet M 12/4 UHF Radio	
Rain/Freeze Sensor	Rain Bird	WR2-RFC Rain/Freeze Combo	<a href="http://www.rainbird.com/products/wr2-wr2-48-series-wireless-rainfreeze-sensors">http://www.rainbird.com/products/wr2-wr2-48-series-wireless-rainfreeze-sensors</a>
Other		As specified by City	

\*Pedestal mount must be installed on concrete pad.

### Backflows

Type	Brand	Model	Link
RPZ	Wilkins	RPZ 375XL 115 Lead Free	<a href="http://www.zurn.com/products/water-safety/backflow-prevention/model-375-(sizes-1/2-2-)">http://www.zurn.com/products/water-safety/backflow-prevention/model-375-(sizes-1/2-2-)</a>
RPZ	Wilkins	RPZ 375XL 020 Lead Free	<a href="http://www.zurn.com/products/water-safety/backflow-prevention/model-375-(sizes-1/2-2-)">http://www.zurn.com/products/water-safety/backflow-prevention/model-375-(sizes-1/2-2-)</a>

### Backflow Enclosures

Color	Brand	Model	Link
Brown	Dekorrra	302-BG-C3	<a href="http://www.dekorrraproducts.com/Backflow.pdf">http://www.dekorrraproducts.com/Backflow.pdf</a>
Insulated Pouch	Dekorrra	603GN	<a href="http://www.dekorrraproducts.com/accessories.html">http://www.dekorrraproducts.com/accessories.html</a>

\*Concrete pad with pipe sleeving must be installed

### Valve Boxes

Type	Brand	Model	Link
Jumbo Rectangle Box 21X15X13	NDS	117BC	<a href="https://www.ndspro.com/jumbo-valve-box-and-cover">https://www.ndspro.com/jumbo-valve-box-and-cover</a>
Standard Rectangle 17X12X12	NDS	113BC	<a href="https://www.ndspro.com/14-inch-x-19-inch-overlapping-cover-black-green-icv">https://www.ndspro.com/14-inch-x-19-inch-overlapping-cover-black-green-icv</a>
6" Round Box	NDS	107BC	<a href="https://www.ndspro.com/6-inch-round-box-cover-sewer">https://www.ndspro.com/6-inch-round-box-cover-sewer</a>
10" Round Box	NDS	111BC	<a href="https://www.ndspro.com/10-inch-round-box-round-overlapping-cover-icv-black-green">https://www.ndspro.com/10-inch-round-box-round-overlapping-cover-icv-black-green</a>

NOTE: DRIP TUBING IS NOT TO BE INSTALLED SUB-SURFACE! TO BE COVERED WITH NO FLOAT CYPRESS MULCH ONLY

**Metal Edging**

Metal Edging	<p><b>Acronym/Abbreviation:</b> MEDG</p> <p><b>Metal Edging:</b> Shall not be used in the DPARD system without prior written approval from DPARD staff.</p>
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**Mowstrips**

Mowstrips	<p>All design, development, preservation and enhancement involving mowstrips shall comply with the following required and/or recommended specifications.</p> <p><b>Function:</b> The primary function of mowstrips is to enhance aesthetics, provide a well defined separation between soft-scape surfaces as well as reduce maintenance requirements in all other applicable locations.</p> <p><b>Mow Strips:</b> Shall be used to accentuate and rigidly divide the various elements of the parks landscape. They define order, limitations, inclusion and exclusion. Using mowstrips as a method of framing elicits a positive perception of aesthetics, organization, maintenance and quality. These perceptions in turn dramatically enhance a user’s experience.</p> <p>By their nature, mowstrips contribute to the spatial definition and perception of each park and facility within. The effect mowstrips have on perception also greatly influences experience, safety, maintenance and usage.</p> <p>The primary function is to serve as a barrier and to reduce maintenance. It is their secondary functions that relate to perception as mentioned above.</p> <p>The elements and principles of design shall also be adhered to in the design and development of all mowstrips with the intended/expected benefits of:</p> <ul style="list-style-type: none"><li>Defining space</li><li>Creating unity</li><li>Enhancing function</li><li>Enhancing aesthetics</li><li>Safety</li></ul> <p>Mowstrips shall be: Located: Between turf and planting beds, under all fencing, and bordering both sides of asphalt and/or dg trails</p> <p>Mowstrips shall follow these dimensional requirements:</p> <p><b>Between turf and planting beds:</b></p> <table style="margin-left: 20px;"><tr><td>Height</td><td>4-6"</td></tr><tr><td></td><td>6" Preferred</td></tr><tr><td>Width</td><td>12"</td></tr></table> <p><b>Under all fencing:</b></p> <table style="margin-left: 20px;"><tr><td>Height</td><td>4-6"</td></tr><tr><td></td><td>6" Preferred</td></tr><tr><td>Width</td><td>18"</td></tr></table> <p><b>Bordering both sides of asphalt and/or dg trails:</b></p> <table style="margin-left: 20px;"><tr><td>Height</td><td>4-6"</td></tr><tr><td></td><td>6" Preferred</td></tr><tr><td>Width</td><td>12"</td></tr></table>	Height	4-6"		6" Preferred	Width	12"	Height	4-6"		6" Preferred	Width	18"	Height	4-6"		6" Preferred	Width	12"
Height	4-6"																		
	6" Preferred																		
Width	12"																		
Height	4-6"																		
	6" Preferred																		
Width	18"																		
Height	4-6"																		
	6" Preferred																		
Width	12"																		

Mowstrips

Mowstrips

Acceptable materials for mowstrips:

- Concrete
- Patterned Concrete
- Stone Mortared on top of Concrete

Design Requirements:

Edges shall be chamfered  
Mowstrips shall have appropriate amount of expansion and control joints  
Mowstrips shall extend 1 1/2" above finish grade.

**Identity:**


The aesthetics, function, and maintenance of mowstrips greatly contribute to the overall perception of how DPARD and the city of Denton support the aesthetics and maintenance of developed open space. Therefore all mowstrips within developed open space under the purview of DPARD shall follow these guidelines. Any modifications must be approved in writing by DPARD prior to selection and/or installation.

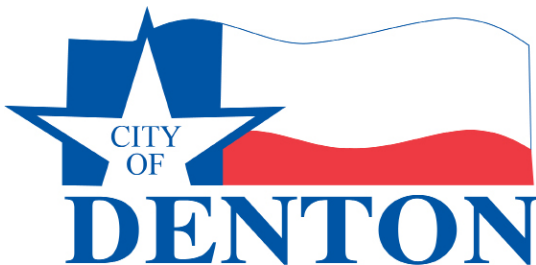
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# Section 13: AESTHETICS

This section outlines the required and recommended specifications for aesthetics within the City of Denton. The following are the definition of the items that can be found in the following pages.

DPARD Logo	<p>All design, development, preservation and enhancement involving the DPARD logo shall comply with the following required and/or recommended specifications.</p> <p><b>Function:</b> The primary function of the DPARD logo is to enhance awareness and identity. This communicates to the viewer that the space/facility is for public use.</p> <p><b>Use:</b> Use this logo for print, web and signage applications only.</p> <p><b>Note:</b> must receive written authorization from DPARD Marketing Director before DPARD Logo can be used.</p>
City of Denton Logo	<p><b>UNITE, GROW, PLAY</b></p>  <p><b>Denton Parks and Rec</b></p> <p>All design, development, preservation and enhancement involving the City of Denton logo shall comply with the following required and/or recommended specifications.</p> <p><b>Function:</b> The primary function of the City of Denton logo is to enhance awareness and identity. This communicates to the viewer that the space/facility is within the city boundaries.</p> <p><b>Use:</b> Use this logo for print, web and signage applications only.</p> <p><b>Note:</b> must receive written authorization from DPARD Marketing Director before City Logo can be used.</p>



## Color

### Color Palette

An enormous amount of color is utilized in park systems. The effects colors have on perception and development are widespread as well. This complexity in relation to color is often overlooked and colors are chosen randomly for each item or facility as they are developed. The result is a park system lacking unity, causing unfamiliarity and making wayfinding more difficult as it increases the difficulty in decision making.

Color Palettes shall be used to enhance user's experiences, safety, support and encourage active / passive recreation, enhance identity, differentiate spaces by making each area visually unique and/or distinct and to communicate more efficiently/effectively. Color palettes shall respect the design vocabulary of the immediate park as well as the park system. All colors must be approved by DPARD unless specifically identified in these standards.

By their nature, colors contribute to the spatial definition and perception of each park and facility within. The effect colors have on perception also greatly influences experience, safety and usage.

### Black

#### Use:

Benefits: Interchangeable, unity, cohesiveness, ease of maintenance, enhances/creates familiarity which contributes to memory/ recognition

#### Negative:

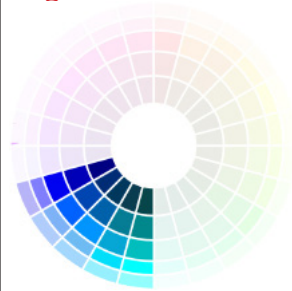


### Blue

#### Use:

#### Benefits:

#### Negative:

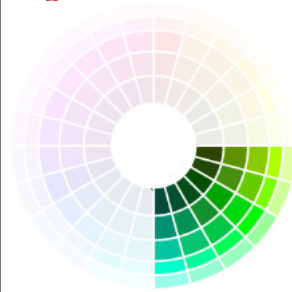


### Green

#### Use:

#### Benefits:

#### Negative:



Color

Orange

Use:  
Benefits:  
Negative:



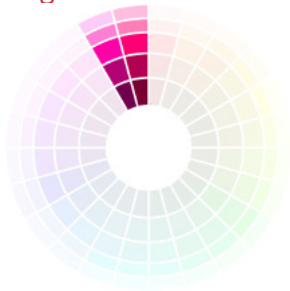
Grey

Use:  
Benefits:  
Negative:



Pink

Use:  
Benefits:  
Negative:



Purple

Use:  
Benefits:  
Negative:

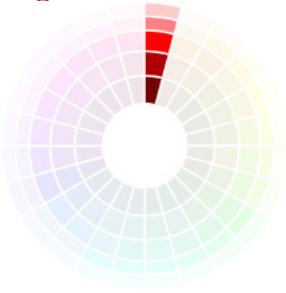




Color

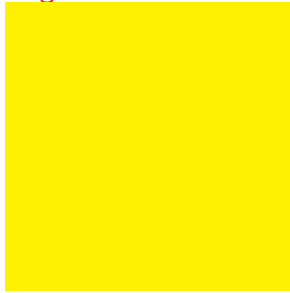
Red

Use:  
Benefits:  
Negative:



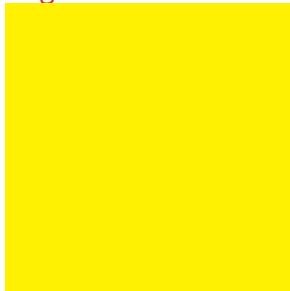
Silver

Use:  
Benefits:  
Negative:



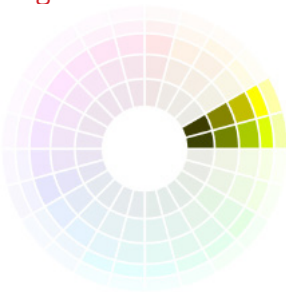
White


Use:  
Benefits:  
Negative:



Yellow

Use:  
Benefits:  
Negative:



Font	
Font Palette	<p><b>Primary Font</b> Use: Utilize on the primary monument signs, and pedestrian and park signage systems.</p> <p><b>Secondary Font</b> Use: Shall be used as the primary font family for wayfinding</p> <p><b>Tertiary Font</b></p> <p><b>Quaternary Font</b></p> <p><b>TxDOT Required Font</b></p>
Font Scale	<p><b>Primary Scale</b></p> <p><b>Secondary Scale</b></p> <p><b>Tertiary Scale</b></p> <p><b>Quaternary Scale</b></p>
Materials	
Hardscape Materials	<p>All materials and construction should communicate high quality and craftsmanship in line with the aesthetic integrity of DPARD. In order to maintain these design standards, DPARD may request samples of hardscape materials to ensure they meet those specifications.</p> <p>The builder/contractor shall secure DPARD approval prior to paving with any paving material, for any purpose, including without limitation trails, pathways, driveways, plazas, parking lots or mowstrips.</p>
Masonry	<p><b>Asphalt</b> Use: Vehicular circulation routes, parking lots, speedbumps, trails Benefits: Lower initial cost Color: Black then gray <b>Life Cycle:</b> <b>Texture: Medium</b> <b>Thickness:</b> <b>Negative:</b></p> 

## Materials

Masonry

### Concrete

Use: Vehicular circulation routes, parking lots, trails, bench pads, pavillion pads, mowstrips

Benefits:

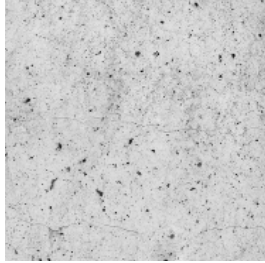
Color:

Life Cycle:

Texture:

Thickness: 6" on all vehicular, pedestrian routes, pavillion pads  
4" mowstrips, bench pads

Negative:



### Patterned Concrete

Use: Vehicular circulation routes, parking lots, trails, pavillion pads,

Benefits:

Color:

Life Cycle:

Texture:

Thickness: 6" on all vehicular, pedestrian routes, pavillion pads

Negative:



### Unit Pavers

Use: Vehicular circulation routes, parking lots, trails, pavillion pads

Benefits:

Color:

Life Cycle:

Texture:

Thickness:

Negative:



## Materials

### Masonry

Brick  
Use:  
Benefits:  
Color:  
Life Cycle:  
Texture:  
Thickness:  
Negative:



CMU (Concrete masonry unit)  
Use:  
Benefits:  
Color:  
Life Cycle:  
Texture:  
Thickness:  
Negative:



Split Block CMU (concrete masonry unit)  
Use:  
Benefits:  
Color:  
Life Cycle:  
Texture:  
Thickness:  
Negative:



Materials

Metals

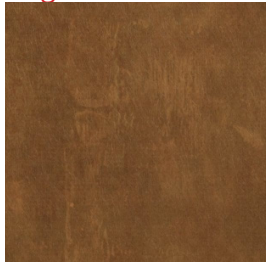
Aluminum

Use:  
Benefits:  
Color:  
Life Cycle:  
Texture:  
Thickness:  
Negative:



Bronze

Use:  
Benefits:  
Color:  
Life Cycle:  
Texture:  
Thickness:  
Negative:



Corrugated Standing Seam Steel/Aluminum

Use:  
Benefits:  
Color:  
Life Cycle:  
Texture:  
Thickness:  
Negative:



## Materials

Metals

Corten Steel

Use:

Benefits:

Color:

Life Cycle:

Texture:

Thickness:

Negative:



Galvanized Steel

Use:

Benefits:

Color:

Life Cycle:

Texture:

Thickness:

Negative:



Stainless Steel

Use:

Benefits:

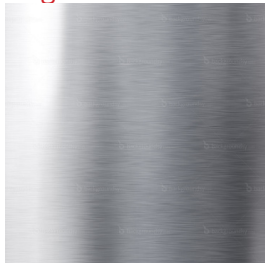
Color:

Life Cycle:

Texture:

Thickness:

Negative:



Materials

Mulch

**No Float Cypress Mulch**

Use:

Benefits: Longest lasting mulch, dense, waterproof, control weeds, conserve moisture, prevent erosion, lessen fruit rot, prevent soil crusting, reduce soil temperatures during summer, prevents soil compaction, serve as super slow release fertilizer by gradually decomposing into rich humus, which will be worked into the upper soil level by earthworms

Color: Blond when fresh, light gray with age

Odor:

Ph:

Renewal:

Texture:

Thickness:

Negative: Most expensive mulch since it is not as easy to produce



Soil

Soil

Use:

Benefits:

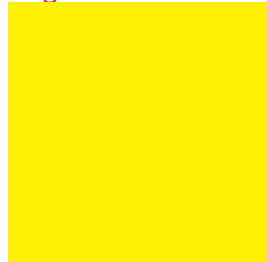
Color:

Life Cycle:

Texture:

Thickness:

Negative:



Anti Graffiti Coating

Acronym/Abbreviation:

Note:

Aspect / Orientation:

Materials

Rubber

Pour in Place

Use:

Benefits:

Color:

Life Cycle:

Texture:

Thickness:

Negative:



Stone

**Decomposed Granite**

Use: Trails, pads, alternative to hardscape

Benefits: Low footprint, permeable

Color: Varies, typically tan/brown

Life Cycle:

Texture: Fine (visually), coarse (touch)

Thickness: Varies

Negative: May require replenishment



**Leuders Stone**

Use: Benches, veneer

Benefits: Aesthetics, durability

Color: Varies

Life Cycle:

Texture: Smooth to medium

Thickness: Varies

Negative: Porous and can become stained





## Materials

Stone

### Gabions

Use: Retaining walls, physical barriers, visual barriers, benches, erosion control  
Benefits: Low cost, aesthetics, speed

Color: Varies

**Life Cycle:**

Texture: Coarse (visually)

Thickness: Varies

Negative:



### River Rock

Use: Alternative to flora / mulch

Benefits: Aesthetics, permeable, erosion control

Color: Varies

**Life Cycle:**

Texture: Medium to coarse

Thickness: Varies

Negative: Stones may disappear over time



### Tejas Black

Use: Vehicular and pedestrian circulation routes, alternative to hardscape, alternative to flora/mulch

Benefits: Aesthetics, permeable, erosion control

Color: Black/dark grey

**Life Cycle:**

Texture: Medium

Thickness: Varies

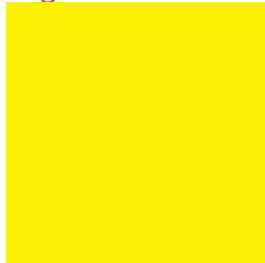
Negative: Stones may disappear over time



Materials

Stone

**3/8th minus trails**  
**crushed glass trails**  
Use:  
Benefits:  
Color:  
Odor:  
Ph:  
Renewal:  
Texture:  
Thickness:  
Negative:



Synthetics

**Synthetic Turf**  
Use: Alternative to turf, sports fields  
Benefits: Color year round, less water, high wear tolerance, aesthetics  
Color: green, varies  
Life Cycle:  
Texture: Fine to coarse  
Thickness: Varies  
Negative: Initial cost, cooling, repairs



Wood

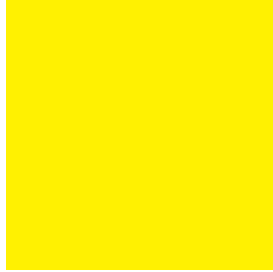
Avoid specifying wood because: wood footing will rot, they are prone to termite infestation, the shrink/swell defect of moisture loosens bolts and creates a safety hazard, and pressure treated wood contains chromate copper arsenate (CCA), a carcinogen.

Materials

Wood

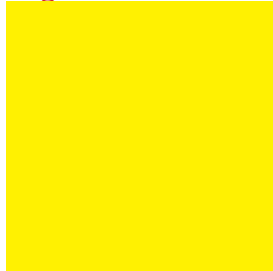
**Master Seal Infield Mix**

Use:  
Benefits:  
Color:  
Odor:  
Ph:  
Renewal:  
Texture:  
Thickness:  
Negative:



**Fibar**

Use:  
Benefits:  
Color:  
Odor:  
Ph:  
Renewal:  
Texture:  
Thickness:  
Negative:



Flora

Flora

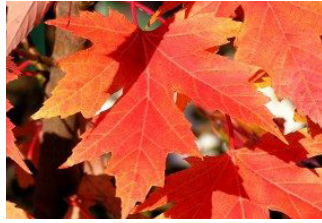
The following trees make up the approved tree list for the Denton Park System. Any substitutions must be approved by the Denton Parks and Recreation Department and be placed on the City of Denton Approved Plant List.

Trees

All trees must be suitable for USDA Hardiness Zone 8.

Flora

Trees



**Autumn Blaze Maple**  
*Acer x freemanii*  
'Jeffersred' Autumn

Zone: 3-8  
Height: 40-55  
Width: 30-40  
Duration: Deciduous  
Sun/Shade: Full sun/  
part shade



*Liquidambar styraciflua*  
American Sweetgum

Zone: 5-8  
Height: 20-60  
Width: 12-20  
Duration: Evergreen  
Sun/Shade: Full sun  
Canopy Coverage: 707 sf  
Note: Do not plant  
near any pedestrian/  
vehicular pathways,  
hardscape or near any  
active recreational  
space.



**Crape Myrtle - Natchez**  
*Lagerstroemia indica*  
'Natchez'

Zone: 6-9  
Height: 4-21  
Width: 4-21  
Duration: Deciduous  
Sun/Shade: Full sun



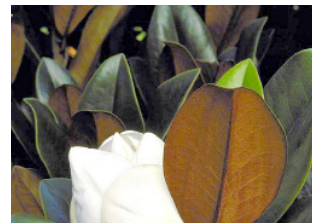
**Brackens Brown**  
*Magnolia*  
*Magnolia grandiflora*

Zone: 6-9  
Height: 20-30  
Width: 15-25  
Duration: Evergreen  
Sun/Shade: Full sun /  
part shade



**Pecan**  
*Carya illinoensis*

Zone: 5-9  
Height: 75-100  
Width: 40-70  
Duration: Deciduous  
Sun/Shade: Full sun



**D.D. Blanchard**  
*Magnolia*  
*Magnolia grandiflora*

Zone: 7-9  
Height: 35-50  
Width: 20-35  
Duration: Evergreen  
Sun/Shade: Full sun /  
part shade



**Eastern Redbud**  
*Cercis canadensis*

Zone: 4-8  
Height: 20-30  
Width: 25-35  
Duration:  
deciduous  
Sun/Shade: Full sun /  
part shade  
Canopy Coverage: 314



**Little Gem Magnolia**  
*Magnolia grandiflora*  
'Little Gem'

Zone: 7-9  
Height: 15-20  
Width: 7-10  
Duration: Evergreen  
Sun/Shade: Full sun /  
part shade  
Canopy Coverage: 79 sf



**East Palatka Holly**  
*Ilex x attenuata*  
'East Palatka'

Zone: 6-9  
Height: 12-25  
Width: 8-18  
Duration: Evergreen  
Sun/Shade: Full sun /  
part shade

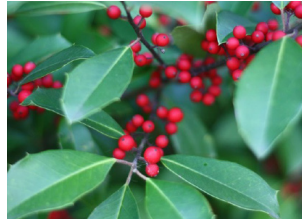
Flora

Trees



**Possumhaw Holly**  
*Ilex decidua*

Zone: 5-9  
Height: 7-15  
Width: 5-12  
Duration:  
evergreen  
Sun/Shade: Full sun /  
part shade  
Canopy Coverage: 79 sf



**Savannah Holly**  
*Ilex x attenuata*  
'Savannah'

Zone: 6-9  
Height: 10-20  
Width: 8-15  
Duration:  
evergreen  
Sun/Shade: Full sun/  
part shade



**Yaupon Holly**  
*Ilex vomitoria*

Zone: 7-9  
Height: 10-20  
Width: 8-12  
Duration:  
evergreen  
Sun/Shade: Full sun /  
part shade  
Canopy Coverage: 79 sf



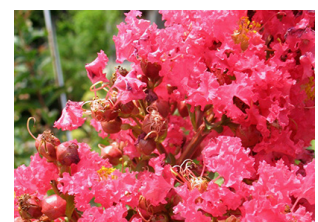
**Foster Holly**  
*Ilex x attenuata* 'Fosteri'

Zone: 6-9  
Height: 20-30  
Width: 10-20  
Duration: Evergreen  
Sun/Shade: Full sun /  
part shade  
Canopy Coverage: 79 sf



**Crape Myrtle - Muskogee**  
*Lagerstroemia indica*  
'Muskogee'

Zone: 6-9  
Height: 4-12  
Width: 4-12  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage: 79 sf



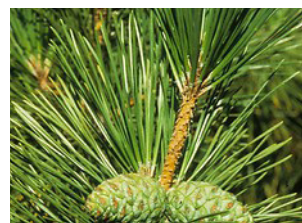
**Crape Myrtle Tuscarora**  
*Lagerstroemia indica*  
'Tuscarora'

Zone: 6-9  
Height: 2-16  
Width: 2-16  
Duration: Deciduous  
Sun/Shade: Full sun



**Smoke Tree**  
*Cotinus coggygria*

Zone: 5-8  
Height: 10-15  
Width: 10-15  
Duration:  
deciduous  
Sun/Shade: Full sun



**Japanese Black Pine**  
*Pinus thunbergii*

Zone: 5-8  
Height: 20-60  
Width: 12-20  
Duration: Evergreen  
Sun/Shade: Full sun  
Canopy Coverage: 314  
sf



**Chinese Pistache**  
*Pistacia chinensis*

Zone: 6-9  
Height: 30-35  
Width: 20-30  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage:  
1,256 sf

Flora

Trees



**Afghan Pine**  
*Pinus eldarica*

Zone:  
Height: 40'  
Width: 30'  
Duration: Evergreen  
Sun/Shade: Full sun  
Canopy Coverage: 314 sf



**Shumard Oak**  
*Quercus shumardii*

Zone: 5-9  
Height: 40-60  
Width: 30-40  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage: 1,256 sf



**Live Oak**  
*Quercus virginiana*

Zone: 8-10  
Height: 40-80  
Width: 60-100  
Duration: Evergreen  
Sun/Shade: Full sun  
Canopy Coverage: 1,256 sf



**Bur Oak**  
*Quercus macrocarpa*

Zone: 3-8  
Height: 60'  
Width: 60'  
Duration: Deciduous  
Sun/Shade:  
Canopy Coverage: 1,256 sf



**Chinquapin Oak**  
*Quercus muehlenbergii*

Zone: 5-7  
Height: 40-60  
Width: 50-70  
Duration: Evergreen  
Sun/Shade: Full sun  
Canopy Coverage: 1,256 sf



**Eve's Necklace**  
*Sophora affinis*

Zone: 5-7  
Height: 40-60  
Width: 50-70  
Duration: Evergreen  
Sun/Shade: Full sun  
Canopy Coverage: 314 sf



**Bald Cypress**  
*Taxodium distichum*  
var. *distichum*

Zone: 4-9  
Height: 50-70  
Width: 20-45  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage: 1,256 sf



**Pond Cypress**  
*Taxodium distichum*  
var. *imbricarium*

Zone: 5-9  
Height: 30-70  
Width: 15-20  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage: 1,256 sf



**Winged Elm**  
*Ulmus alata*

Zone: 6-9  
Height: 30'  
Width: 30'  
Duration: Deciduous  
Sun/Shade: Full sun/  
partial shade

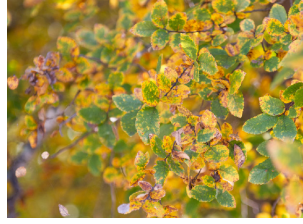
Flora

Trees



**American Elm**  
*Ulmus americana*

Zone: 2-9  
Height: 70'  
Width: 70'  
Duration: Deciduous  
Sun/Shade: Full sun/  
partial shade  
Canopy Coverage:  
1,256 sf



**Cedar Elm**  
*Ulmus parvifolia*

Zone: 4-9  
Height: 40-50  
Width: 25-40  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage:  
1,256 sf



**Allee Elm**  
*Ulmus parvifolia*  
'Emer II Allee'

Zone: 4-9  
Height: 60-70  
Width: 35-55  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage:  
1,256 sf



**Lacebark Elm**  
*Ulmus parvifolia*  
'Emer II Allee'

Zone: 4-9  
Height: 60-70  
Width: 35-55  
Duration: Deciduous  
Sun/Shade: Full sun  
Canopy Coverage:  
1,256 sf



**Eastern Cottonwood(Male)**  
*Populus deltoides*

Zone: 2-9  
Height: 50-80  
Width: 35-60  
Duration: Deciduous  
Sun/Shade: Full sun



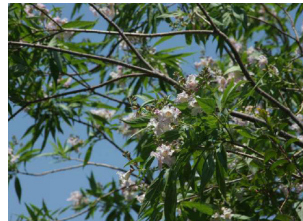
**Sycamore - Male**  
*Platanus occidentalis*

Zone: 4-9  
Height: 75-100  
Width: 75-100  
Duration: Deciduous  
Sun/Shade: Full sun



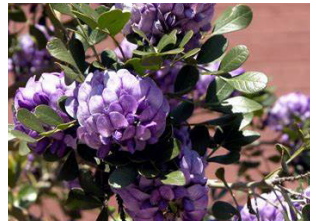
**Desert Willow-Bubba**  
*Chilopsis linearis*  
'Bubba'

Zone: 7-10  
Height: 10-15  
Width: 10-15  
Duration: Deciduous  
Sun/Shade: Full sun



**Chitalpa**  
*x Chitalpa*  
*tashkentensis*

Zone: 6-9  
Height: 20-35  
Width: 20-35  
Duration: Deciduous  
Sun/Shade: Full sun /  
part shade



**Texas Mountain Laurel**  
botanical

Zone: 7- 11  
Height:  
Width:  
Duration:  
Sun/Shade:

Flora

Trees



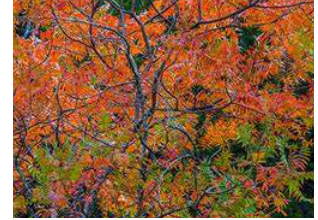
**Mexican Buckeye**  
*Ungnadia speciosa*

Zone: 7-9  
Height: 20-30  
Width: 20  
Duration: Deciduous  
Sun/Shade: Full sun / part shade



**Eastern Red Cedar**  
*Juniperus virginiana*

Zone: 2-9  
Height: 30-65  
Width: 8-25  
Duration: Evergreen  
Sun/Shade: Full sun



**Flame Leaf Sumac**  
*Rhus lanceolata*

Zone: 6-9  
Height: 15-20  
Width:  
Duration: Deciduous  
Sun/Shade: Full sun

Tree Preservation/Cultivation

Tree Preservation / Cultivation					
		Table Results	Among Outside Facilities	Overall	
Public Meeting	Denia	81/443	81/287	81/1304	
	Senior Center	70/496	70/311	70/1921	
	MLK, Jr.	35/374	35/338	35/2715	
	North Lakes	67/560	67/475	67/1470	
	Total Weighted Ratio	253/1411*.5			
	Result	<b>.0896</b>		<b>.0170</b>	
Stakeholder & Public Outreach Results	Citizen Survey	Total Weighted Ratio	3/19	3/19	3/19
		Result	<b>.0789</b>		<b>.0789</b>
	City Council	Total Weighted Ratio	8/59	8/52*.1	8/286*.1
		Result	<b>.0153</b>		<b>.0027</b>
	CMO	Total Weighted Ratio	0/8	0/4*.1	0/59*.1
		Result	<b>0</b>		<b>0</b>
	Park Board	Total Weighted Ratio	30/96	30/95*.1	30/258*.1
		Result	<b>.0315</b>		<b>.0116</b>
	SME	Total Weighted Ratio			
		Result			
	Focus Groups	Total Weighted Ratio		2/6*.075	2/158*.075
		Result	<b>.025</b>		<b>.0009</b>
Park Leadership	Total Weighted Ratio		15/82*.05	15/107*.05	
	Result	<b>.0091</b>		<b>.0070</b>	
Coordination Board	Total Weighted Ratio		12/63*.1	12/72*.1	
	Result	<b>.0190</b>		<b>.0166</b>	
Total					
Priority Ranking Overall Among Outside Facilities				.2153	
Priority Ranking Overall				.1102	

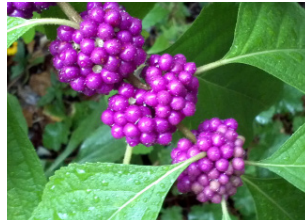


Flora

Shrubs

The following shrubs make up the approved shrub list for the Denton Park System. Any substitutions must be approved by the Denton Parks and Recreation Department and be placed on the City of Denton Approved Plant List.

All shrubs must be suitable for USDA Hardiness Zone 8.



**American Beauty Berry**  
*Callicarpa americana*

Zone: 6-10  
Height: 3-6  
Width: 3-6  
Duration: Deciduous  
Sun/Shade: Full sun / part shade



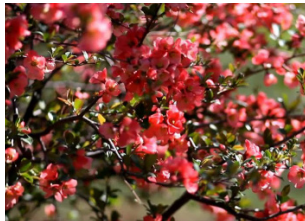
**Parry's Agave**  
*Agave parryi*

Zone: 7-10  
Height: 1.5-2  
Width: 2-3  
Duration: Herbaceous perennial  
Sun/Shade: Full sun



**Forsythia**  
*Forsythia x intermedia 'Arnold Giant'*

Zone: 5-8  
Height: 8-10  
Width: 8-10  
Duration: Deciduous  
Sun/Shade: Full sun / part shade



**Flowering Quince**  
*Chaenomeles speciosa*

Zone: 4-8  
Height: 6-10  
Width: 6-10  
Duration: Deciduous  
Sun/Shade: Full sun / part shade



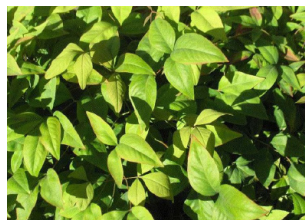
**Dwarf Nandina**  
*Nandina domestica 'Harbour Dwarf'*

Zone: 6-9  
Height: 1-2  
Width: 2-3  
Duration: Broadleaf evergreen  
Sun/Shade: Full sun / part shade



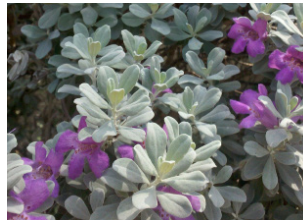
**Nandian - Obsession**  
*Nandina domestica 'Seika' Obsession*

Zone: 6-9  
Height: 2-2.5  
Width: 1.5-2  
Duration: Broadleaf evergreen  
Sun/Shade: Full sun / part shade



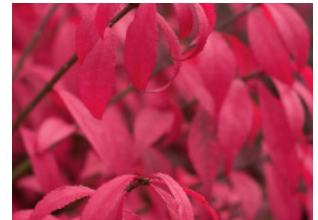
**Firepower Nandina**  
*Nandina domestica 'Fire Power'*

Zone: 6-9  
Height: 1-2  
Width: 1-2  
Duration: Broadleaf evergreen  
Sun/Shade: Full sun / part shade



**Texas Sage**  
*Leucophyllum frutescens*

Zone: 8-10  
Height: 5-8  
Width: 4-6  
Duration: Broadleaf evergreen  
Sun/Shade: Full sun



**Burning Bush**  
*Euonymus alatus 'Compactus'*

Zone: 4-8  
Height: 9-11  
Width: 9-11  
Duration: Deciduous  
Sun/Shade: Full sun / part shade

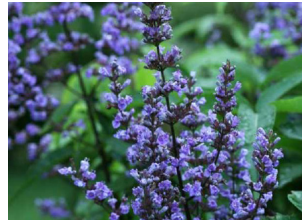
Flora

Shrubs



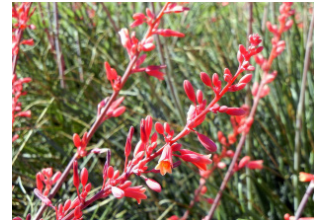
**Rose of Sharon**  
*Hibiscus syriacus*

Zone: 5-8  
Height: 5-8  
Width: 4-7  
Duration: Deciduous  
Sun/Shade: Full sun /  
part shade



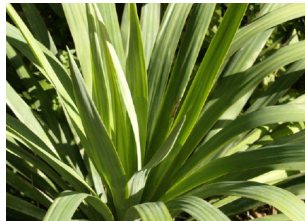
**Dwarf Vitex**  
*Vitex agnus-castus*

Zone: 6-9  
Height: 8-10  
Width: 5-8  
Duration: Deciduous  
Sun/Shade: Full sun



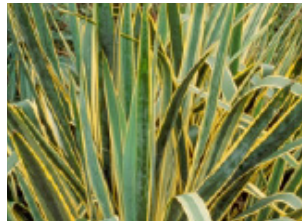
**Red Yucca**  
*Hesperaloe parviflora*

Zone: 5-10  
Height: 3-5  
Width: 4-6  
Duration:  
Broadleaf Evergreen  
Sun/Shade: Full sun



**Soft Leaf Yucca**  
*Yucca recurvifolia*

Zone: 7-9  
Height: 6-8  
Width: 6-8  
Duration:  
Broadleaf Evergreen  
Sun/Shade: Full sun



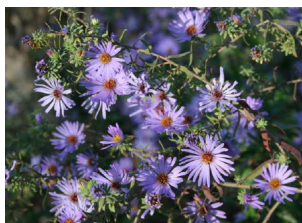
**Bright Edge Yucca**  
*Yucca filamentosa*  
'Bright Edge'

Zone: 4-9  
Height: 3  
Width: 4  
Duration:  
Broadleaf Evergreen  
Sun/Shade: Full sun

Perennials

The following perennials make up the approved perennials list for the Denton Park System. Any substitutions must be approved by the Denton Parks and Recreation Department and be placed on the City of Denton Approved Plant List.

All perennials must be suitable for USDA Hardiness Zone 8.



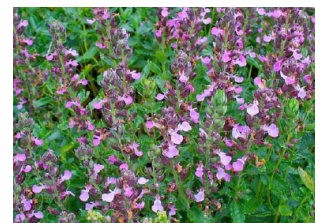
**Aster**  
*Aster x frikartii 'Monch'*

Zone: 5-10  
Height: 2-3  
Width: 1-1.5  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



**Dwarf Mexican Petunia**  
*Ruellia simplex 'Katie'*

Zone: 8-10  
Height: .5-.75  
Width: .5-1  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



**Germander**  
*teucrium chamaedrys*

Zone: 5-9  
Height: .75-1  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun

Flora

Perennials



**Pincushion Flower**  
**Scabiosa**

Zone: 5-9  
Height: 1-1.5  
Width: 1-1.5  
Duration: Perennial  
Sun/Shade: Full sun



**Black Eyed Susan**  
**Rudbeckia hirta**

Zone: 3-7  
Height: 2-3  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun



**Coreopsis**  
**Coreopsis spp.**

Zone: 3-9  
Height: 2.5-3  
Width: 1.5-2  
Duration: Perennial  
Sun/Shade: Full sun



**Zexmania**  
**Wedelia texana**

Zone: 7-9  
Height: 2  
Width: 2  
Duration: Perennial  
Sun/Shade: Full sun,  
part shade



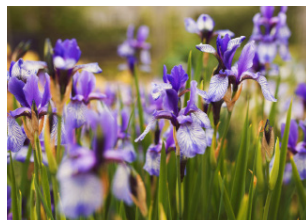
**Rosemary**  
**Rosmarinus officinalis**

Zone: 8-10  
Height: 2-6  
Width: 2-4  
Duration:  
Herbaceous Perennial  
Sun/Shade: Full sun



**Greggs Blue Mist Flower**  
**Conoclinium greggii**

Zone: 7-10  
Height: 1-1.5  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



**Iris**  
**Iris spp.**

Zone: 5-9  
Height: 1-3  
Width: .5-1  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



**Day Lilly**  
**Hemerocallis spp.**

Zone: 3-10  
Height: .75-1.5  
Width: .75-2  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



**Gold Star Esperanza**  
**Tecoma stans 'Gold Star'**

Zone: 8-11  
Height: 3-4  
Width: 3-4  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade

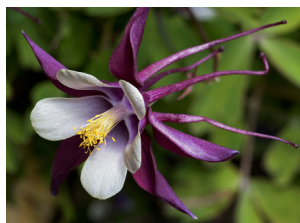
Flora

Perennials



**Helenium**  
**Helenim spp.**

Zone: 3-8  
Height: 1-3  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun



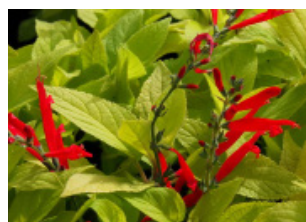
**Columbine**  
**Aquilegia canadensis**  
**spp**

Zone: 3-8  
Height: 2-3  
Width: 1-1.5  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



**Turks Cap**  
**Malvaviscus drumondii**

Zone: 7-10  
Height: 3-6  
Width: 3-6  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



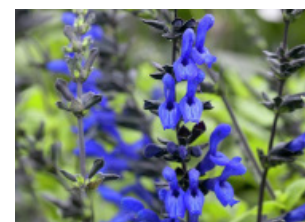
**Pineapple Sage**  
**Salvia elegans**

Zone: 8-10  
Height: 3-4  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Full sun



**Mealycup Sage**  
**Salvia farinacea**

Zone: 8-10  
Height: 1-3  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



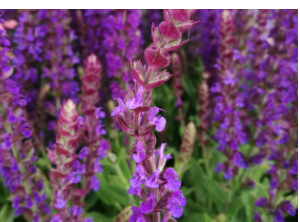
**Anise Scented Sage**  
**Salvia guaranitica**

Zone: 8-10  
Height: 2-5  
Width: 2-5  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



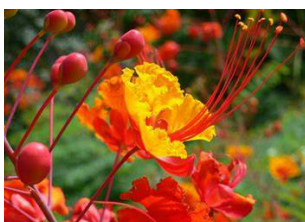
**Autumn Sage**  
**Salvia greggii**

Zone: 6-9  
Height: 2-3  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Full sun



**Garden Sage**  
**Salvia nemerosa**  
**Ostfriesland**

Zone: 4-8  
Height: 1-1.5  
Width: .75-1  
Duration: Perennial  
Sun/Shade: Full sun

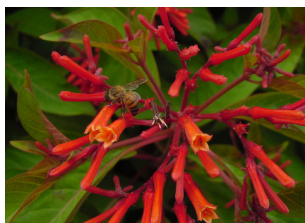


**Pride of Barbados**  
**Caesalpinia**  
**pulcherrima**

Zone: 8-9  
Height: 8-12  
Width: 8-12  
Duration: Perennial  
Sun/Shade: Full sun

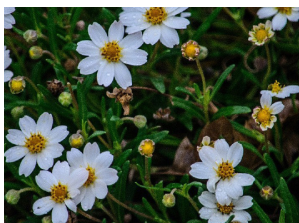
Flora

Perennials



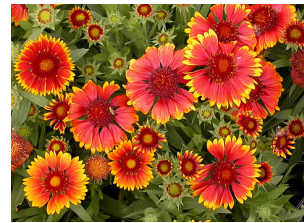
**Firebush**  
**Hamelia patens**

Zone: 9-10  
Height: 1-3  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun / part shade



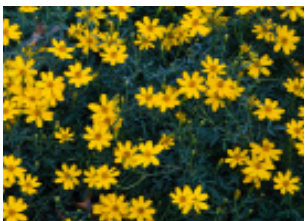
**Black Foot Daisy**  
**Melampodium leucanthum**

Zone: 4-11  
Height: 1  
Width: 1-3  
Duration: Perennial  
Sun/Shade: Full sun / part shade



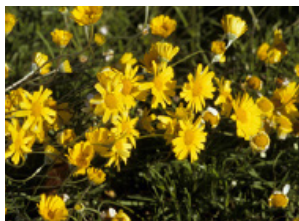
**Indian Blanket**  
**Gaillardia pulchella**

Zone: 2-11  
Height: 1-1.5  
Width: .5-1  
Duration: Perennial  
Sun/Shade: Full sun



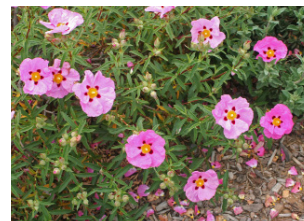
**Copper Canyon Daisy**  
**Tagetes lemmonii**

Zone: 8-10  
Height: 4  
Width: 4  
Duration: Perennial  
Sun/Shade: Full sun



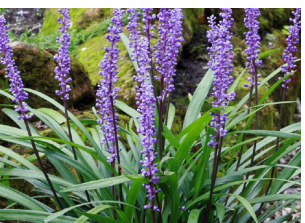
**Four Nerve Daisy**  
**Tetranneuris scaposa**

Zone: 8-9  
Height: 1-3  
Width: 1  
Duration: Perennial  
Sun/Shade: Full sun / part shade



**Rock Rose**  
**Helianthemum nummularium**

Zone: 5-7  
Height: .5-1  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Full sun



**Big Blue Lilyturf**  
**Liriope muscari**

Zone: 5-10  
Height: 1-1.5  
Width: .75-1  
Duration:  
Herbaceous Perennial  
Sun/Shade: Full sun / part shade



**Creeping Liriope**  
**Liriope spicata**

Zone: 4-10  
Height: .75-1.5  
Width: 1-2  
Duration:  
Herbaceous Perennial  
Sun/Shade: Full sun / part shade

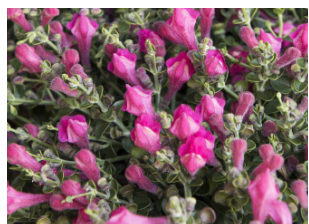


**Lantana**  
**Lantana spp.**

Zone: 8-10  
Height: 1-4  
Width: 1-3  
Duration: Perennial  
Sun/Shade: Full sun

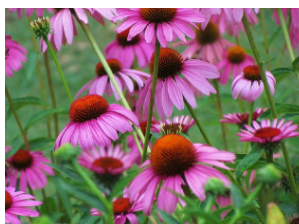
Flora

Perennials



**Skullcap**  
*Scutellaria*  
*suffrutescens*

Zone: 7-9  
Height: .5-.75  
Width: 1-1.5  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



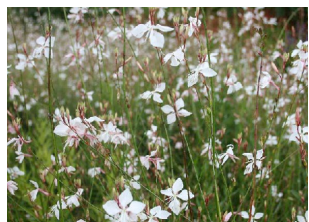
**Coneflower**  
*Echinacea* spp.

Zone: 3-8  
Height: 1-3  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun



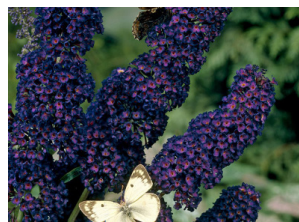
**Wormwood**  
*Artemisia* spp

Zone: 6-9  
Height: 2-3  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun



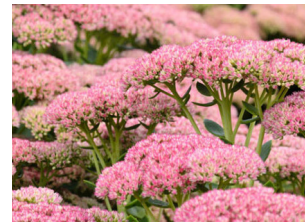
**Lindheimer's  
Beeblossom**  
*Gaura lindheimeri* spp

Zone: 5-9  
Height: 3-5  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun



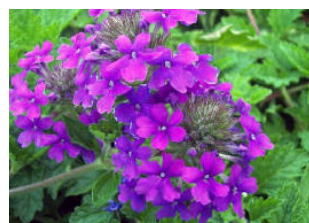
**Buttefly Bush**  
*Buddleja* spp

Zone: 5-9  
Height: 8-15  
Width: 10-18  
Duration: Perennial  
Sun/Shade: Full sun /  
part shade



**Sedum**  
*sedum* spp

Zone: varies  
Height: varies  
Width: varies  
Duration: Perennial  
Sun/Shade: Full sun



**Verbena**  
*verbena* spp

Zone: varies  
Height: varies  
Width: varies  
Duration: Perennial  
Sun/Shade: Full sun



**Society Garlic**  
*Tulbaghia violacea*

Zone: 7-10  
Height: 1-2  
Width: .75-1  
Duration: Perennial  
Sun/Shade: Full sun



**Wine Cup/Poppy  
Mallow**  
*Callirhoe digitata*

Zone: 5-8  
Height: 2-4  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Full sun

Flora

Perennials



**Zexmenia**  
**Wedilia hispida**

Zone: 7-9  
Height: 2  
Width: 2  
Duration: Perennial  
Sun/Shade: Full sun



**Yarrow**  
**Achillea millefolium**  
**spp**

Zone: 3-9  
Height: 2-3  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Full sun



**Yarrow**  
**Achillea filipendulina**  
**spp**

Zone: 3-9  
Height: 3-4  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Full sun



**Snake Herb**  
**botanical**

Zone: 7-9  
Height: .5  
Width: 1  
Duration: Perennial  
Sun/Shade: Full sun



**Lambs Ear**  
**Stachys byzantina**

Zone: 4-8  
Height: .75-1.5  
Width: 1-1.5  
Duration: Perennial  
Sun/Shade: Full sun



**Cast Iron Plan**  
**Aspidistra elatior**

Zone: 8-10  
Height: 2-3  
Width: 1-2  
Duration: Perennial  
Sun/Shade: Part to full shade

Ornamental Grass

The following ornamental grasses make up the approved ornamental grass list for the Denton Park System. Any substitutions must be approved by the Denton Parks and Recreation Department and be on the City of Denton Approved Plant List.



**Pink Muhlygrass**  
**Muhlenbergia capillaris**

Zone: 5-9  
Height: 2-3  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Full sun



**Seep Muhly**  
**Muhlenbergia**  
**reverchonii spp**

Zone: 5-9  
Height: 2-3  
Width: 1.5-2  
Duration: Perennial  
Sun/Shade: Full sun / part shade



**Maiden Grass**  
**Miscanthus sinensis**  
**'Gracillimus'**

Zone: 5-9  
Height: 4-7  
Width: 3-6  
Duration: Perennial  
Sun/Shade: Full sun / part shade

Ornamental Grass



**Miscanthus Adaigo**  
*Miscanthus sinensis*  
**'Adagio'**

Zone: 5-9  
Height: 3-4  
Width: 3-4  
Duration: Perennial  
Sun/Shade: Full sun / part shade



**Berkeley Sedge**  
*Carex tumulicola*

Zone: 8-10  
Height: 1-2  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Part to full shade



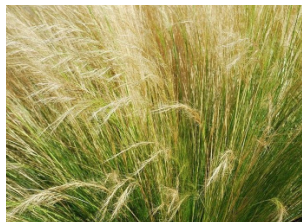
**Inland Sea Oats**  
*Chasmanthium latifolium*

Zone: 3-8  
Height: 2-5  
Width: 1-2.5  
Duration: Perennial  
Sun/Shade: Full sun / part shade



**Little Bluestem**  
*Schizachyrium scoparium*

Zone: 3-9  
Height: 2-4  
Width: 1.5-2  
Duration: Perennial  
Sun/Shade: Full sun



**Mexican Feather Grass**  
*Nassella tenuissima*

Zone: 7-10  
Height: 1-2  
Width: 1.5-2  
Duration: Perennial  
Sun/Shade: Full sun / part shade



**Weeping Love Grass**  
*Eragrostis curvula*

Zone: 7-10  
Height: 2-3  
Width: 2-3  
Duration: Perennial  
Sun/Shade: Full sun



**Pampas Grass**  
*Cortaderia selloana*  
**spp**

Zone: 6-9  
Height: 6-12  
Width: 4-6  
Duration: Perennial  
Sun/Shade: Full Sun



Flora

Turf

The following turf grass make up the approved turf grasses list for the Denton Park System. Any substitutions must be approved by the Denton Parks and Recreation Department and be placed on the City of Denton Approved Plant List.

All turf must be suitable for USDA Hardiness Zone 8.



Bermuda A

Zone:  
Height:  
Width:  
Duration:  
Sun/Shade:



Buffalo Grass R

Zone:  
Height:  
Width:



Rye Grass T

Zone:  
Height:  
Width:

Do Not Use: Celebration  
Tiff 419  
Tiff Sport Princess



Zoysia A

Zone:  
Height:  
Width:



St. Augustine R

Zone:  
Height:  
Width: