

457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499

EXHIBIT G

Chapter 23

LAND DEVELOPMENT REGULATIONS ARTICLE 6 "ENVIRONMENTAL REGULATIONS"

Sec. 23.6-1. - Landscape regulations.

(k) *Landscape design standards.* The following are the minimum standards for the design and installation of all landscaping within the City of Lake Worth Beach:

(15) Artificial turf.

a. All installation of artificial turf shall require a landscape permit. The use and location of artificial turf shall be limited to the following:

(1) Single family and duplex properties in the rear yard only and not visible from the right of way.

(2) Between parking strips in the front yard of non-conforming properties previously constructed with off-street parking utilizing sixty percent (60%) or more of the width of the front yard. This application of artificial turf shall be approved by the Development Review Official or applicable review board, which shall review the proposed application for consistency with the City's land development regulations, visual appropriateness, enhanced site design and appearance, and improved drainage. Properties located in historic districts will require a Certificate of Appropriateness from the HRPB.

(3) On roof top terraces.

(4) As part of a planned development in a recreation or amenity area.

b. In all areas of installation, artificial turf shall be treated as a semi-pervious surface. The quantity of artificial turf to be incorporated into a project shall be limited by the maximum percentage of impervious surface for the subject property within the applicable zoning district.

c. Artificial turf shall not be installed:

(1) as part of any landscape buffer or landscape area required by this article;

(2) within permanent drainage features (e.g., ponds, swales); or

(3) in any public right of way.

d. Minimum material standards. All artificial turf shall comply with each of the following minimum standards:

(1) Artificial turf shall consist of green lifelike individual blades of grass that emulate natural turf in look and color and shall have a minimum pile height of

500 one- and one-half inches and shall have a minimum tufted weight of 80
501 ounces per square yard.

502 (2) Artificial turf installations shall have a minimum permeability of 30 inches per
503 hour per square yard.

504 (3) All artificial turf shall have a minimum ten-year manufacturer's warranty that
505 protects against color fading and a decrease in pile height.

506 (4) Artificial turf shall be lead free and be partially or wholly manufactured from
507 recyclable materials.

508 (5) All materials must include test documentation which declares that the artificial
509 turf yarn and backing materials are disposable under normal conditions, at
510 any U.S. landfill station (Total Content Leach Protocol (TCLP) test).
511 Documentation must also be provided that identifies all components that are
512 recyclable and all components that consist of recycled material.

513 (6) The use of indoor or outdoor plastic or nylon carpeting as a replacement for
514 artificial turf or natural turf shall be prohibited.

515 (7) The artificial turf system shall utilize organic plant-derived and other natural
516 infill components, including, but not limited to, cork, coconut, corn husk, rice
517 husk, and sand. The use of crumb rubber and other synthetic materials shall
518 be prohibited in all applications except for sports fields.

519 (8) Artificial Turf shall not be treated as a fill in material, but rather as a planned
520 element of the site or yard outside of required landscape areas and buffers

521 e. Installation, maintenance and repair.

522 (1) All artificial turf shall, at a minimum, be installed according to the
523 manufacturer's specifications.

524 (2) All artificial turf installations shall be anchored to ensure that the turf will
525 withstand the effects of wind.

526 (3) All seams shall be secured and edges shall be trimmed to fit against all
527 regular and irregular edges to resemble a natural look.

528 (4) If artificial turf is planned to be installed immediately adjacent to a seawall,
529 the artificial turf shall be pinned or staked behind the seawall. No artificial
530 turf or installation mechanism shall be attached directly to or placed on a
531 seawall or seawall cap.

532 (5) All artificial turf shall be installed over a subgrade prepared to provide
533 positive drainage and an evenly graded mass of compacted, porous
534 crushed rock aggregate material. Base comprising of sand only is not
535 permitted. Proper drainage shall be provided for all Artificial Turf
536 installations to prevent runoff or pooling of water.

537 (6) Artificial turf shall be visually level, with the grain pointing in a single
538 direction.

539 (7) An appropriate solid barrier device (e.g., concrete mow strip, bender board
540 or other barrier with a minimum of 38" thickness) is required to separate

541 artificial turf from soil and live vegetation and to prevent intrusion of living
542 plant material.

543 (8) Artificial turf shall not be installed directly against the trunk of trees and/or
544 palms. A 3-foot mulch bed measured from the base of the tree or palm must
545 be maintained around all trees and or palms. Precautions for installation
546 around existing trees shall be monitored and may be restricted to ensure
547 tree roots are not damaged with the installation of the base material and
548 that the overall health of the tree will not be compromised.

549 (9) All artificial turf shall be maintained in a green fadeless condition and shall
550 be maintained free of dirt, mud, stains, weeds, debris, tears, holes, and
551 impressions. Maintenance shall include, but not be limited to cleaning,
552 brushing, debris removal; repairing of depressions and ruts to maintain a
553 visually-level surface; elimination of any odors, flat or matted areas, weeds,
554 and invasive roots; and all edges of the artificial turf shall not be loose and
555 must be maintained with appropriate edging or stakes.

556 (10) There shall be no parking on artificial turf.

557 (11) Artificial turf shall not be visible from public rights-of-way except where it is
558 installed between parking strips or approved as part of a planned
559 development.

560 (12) All other landscape requirements must be met.

561 (13) Applicants shall provide an owner affidavit agreeing to perpetually maintain
562 the artificial turf system in good working order to ensure that there is
563 continued permeability. If the artificial turf falls into disrepair with fading or
564 holes or loose areas. The replacement and/or repairs shall be done with like
565 for like materials from the same manufacturer and done so in a manner that
566 results in a repair that blends in with the existing artificial turf.

567 f. A landscape permit shall be obtained from the City prior to the installation of any
568 artificial turf. The permit application shall include the following material
569 specifications and plans.

570 (1) A landscape plan showing the area of synthetic turf, area of living plant
571 material, and separation between these areas;

572 (2) A dimensioned cross section of proposed materials and installation details,
573 including subgrade, drainage, base or leveling layer, and infill;

574 (3) Edge material and detail for seams;

575 (4) Material description and specifications, including manufacturer,

576 (5) Installer (with contact information), and warranty information.

577 (6) A sample of the artificial turf proposed that meets these standards.

578 (7) Product specifications that demonstrate compliance the requirements for
579 artificial turf in this article and the ability to be warranted in the United States
580 of America.

581 (8) The plan shall demonstrate conformance with the City's landscape
582 requirements.

583 g. Inspections. An in-progress inspection shall be required to ensure that the
584 appropriate base material has been installed in accordance to the
585 manufactures' specifications. A final inspection shall also be required.