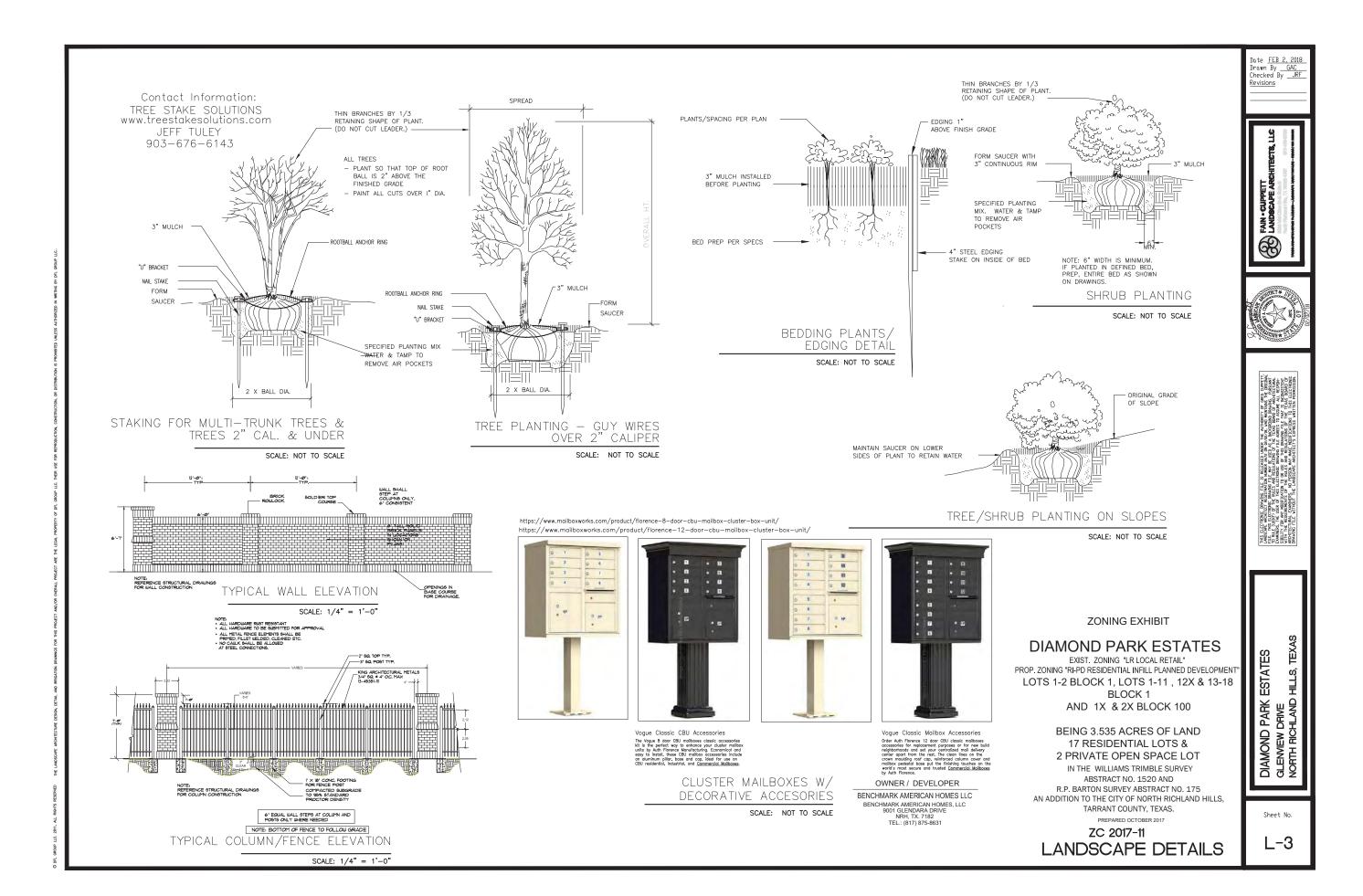


CONCEPTUAL LANDSCAPE PLAN



1.01 DESCRIPTION OF WORK

TREES. SHRUBS. AND GROUNDCOVERS

SECTION 02830

PART I GENERAL

Bed prep Metal edging Topsoil

Planting Mulching

General Requirements – All locations
 Section 02740 – Irrigation Trenching
 Section 02750 – Irrigation
 Section 02800 - Lawns

1.02 QUALITY ASSURANCE A. Contractor Qualifications

Minimum of three (3) years experience on projects of similar characteristics and size.

 American Joint Committee Of Horticultural Nomenclature: Standardized Plant Names, Second Edition, 1942; American Association Of Nurserymen: American Standard For Nursery Stock, 1973

Substitutions accepted only upon written approval of Landscape
 Architect and Owner.
 Submit substitutions possessing same characteristics as indicated

D. Inspection and Testing

The project Owner's representative reserves the right to inspect and tag plans at the place of growth with the Contractor. Inspection at place of growth odes not preclude the right of rejection due to improper digging or handling. Owner's representative reserves the right to request soil samples and analysis of soil and plant mix. Remove or correct unacceptable soil. Cost of testing by Contractor.

1.03 SUBMITTALS

Submit State and Federal certificates of inspection with invoice. (Only if required by Landscape Architect.)
File certificates with Owner's representative prior to material acceptance.

1.04 PRODUCT DELIVERY, STORAGE, & HANDLING

A. Preparation of Delivery

Balled & Burlaped (B&B) Plants

Dig and prepare for shipment in manner that will not damage roots, branches, shape, and future development after

replanting.

b. Ball with firm, natural ball of soil, wrapped tightly with burlap covering entire ball.

Ball size and ratios: conform to American Association of Nurserymen standards unless otherwise shown on plant list.

Pack plant material to protect against climatic & seasonal damage, as well as breakage injuries during transit.
 Securely cover plant tops with ventilated tarpaulin or carvas to minimize wind-whipping and drying in transit.
 Pack and ventilate to prevent sweating of plants during transit. Give special attention to insure prompt delivery and careful handling to point of delivery at job site.

1. Deliver fertilizer, fertilizer tablets, peat, mulch, soil additives, and Deliver tertilizer, fertilizer tablets, peat, mulch, soil additives, and amendment naterials to site in original, unopende containers, bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark, and conformance to State law. Deliver plants with legible identification and size labels on example plants.

Protect during delivery to prevent damage to root ball or desiccation of leaves.

of leaves.

Notify Owner's representative of delivery schedule in advance so plant material may be inspected upon arrival at job site. Deliver plants to job site only when areas are prepared.

D. Handling

1.05 JOB CONDITIONS

 Planting Season Perform actual planting only when weather and soil conditions are suitable in accordance with locally acceptable practices Protection Before excavations are made, take precautionary measures to protect areas trucked over and where soil is temporarily stacked.

Guarantee new plant material for one year after acceptance of final installation (le. Final Acceptance of project).
 Make replacement (one per plant) during one year guarantee period at appropriate season with original plant type, size and planting mixture.
 Repair damage to other plants, lawns, & irrigation caused during plant replacement at no cost to Owner.

Use only plant replacements of indicated size and species.

Hardy under climatic conditions similar to locality of project.
True to botanical and common name variety.
Sound, healthy, vigorous, well branched, and densely foliated when
in leaf; with healthy well-developed root system.
Free from disease, insects, and defects such as knots, sun-scald,

windburn, injuries, disfigurement, or abrasions. Conform to measurements after pruning with branches in normal positions.

Conform to American Association of Nurserymen standards unless shown differently on plant list.

Single, straight trunks, unless indicated otherwise
Trees with weak, thin trunks not capable of support will not be

accepated.

All multi-stem trees are to have a minimum of three stems, similar in size and shape, with a spread of approximately 2/3 of the height. All yaupons to be female. Crape myrtle color selection by Landscape Architect.

10 Seasonal color

Annuals in 4" pots or as specified
 Perennials in 4" pots, clumps, bulbs as specified

Natural, fertile, friable soils having a textural classification of loam or sandy loam possessing characteristics of soils in vicinity which produce heavy growth of crops, grass, or other vegetation. Free of subsoil, brush, organic litter, objectionable weeds, clods, shale, stones X² diameter or larger, stumps, roots or other material harmful to grading, planting, plant growth, or maintenance operations.

Presence of vegetative parts of Bermuda grass (Cynodon dactylon), Johnson grass, nut grass (Cyperus rotundus), and other hard to eradicate weeds or grass will be cause for rejection of

4. Test topsoil (cost by Contractor):

Available nitrogen Available phosphorus Available potash

Iron Ph: 5.5 to 7.0

Top Dressing Mulch – Shredded cypress or hard wood only Mulch for soil prep – Shredded pine bark In pre-packaged bags only; bulk shredded material is unacceptable

D. Peat Moss Commercially available baled peat moss or approved

Wires:

Construction grade yellow pine, stain brown
 Size as noted on plans

Padded with rubbed hose to protect tree
 Galvanized
 With galvanized turnbuckle
 Evenly tighten turnbuckles with plant in vertical position.

1. Free of oils, acids, alkali, salt, and other substances harmful to plant

growth
2. Location: Furnish temporary hoses and connections on site.

 Edging – 3/16" X 4" green, new and unused; with stakes. 2.02 MIXES

D. Planting Mixture

Existing topsoil - 50%

E. Planting Mix for Annuals/Perennials

F. Azalea mix: solid peat moss in hole 9" wider than root ball each direction Plant in solid peat moss and provide mound at base of plant to allow for

PART III - EXECUTION

3.01 UTILITIES - verify location of all utilities prior to initiating construction:

Inspect plants for injury and insect infestation; prune prior to installation.
 Inspect site to verify suitable job conditions.

A. Location of all trees and shrubs to staked in the field and approved by

Owner's representative prior to installation.

B. Location of all groundcover and seeding limits as shown on plans.

3.04 EXCAVATION FOR PLANTING

Shape - Vertical hand scarified sides and flat bottom. Size for trees – 2 feet wider or twice the root ball, whichever is

greater.
Size for shrubs – Size of planting bed as shown on drawings.
Rototill soil mix thoroughly, full depth.
NOTE: If beds are proposed beneath drip line of existing tree
canopy, pocket prep plants. Do not roto-till beneath existing trees.

B. Obstructions Below Ground

Remove rock or underground obstructions to depth necessary to

Refitive run or and and permit planting.

If underground obstructions cannot be removed, notify Owner's representative for instruction.

C. Excess Soil Dispense of unacceptable or excess soil away from the project site at Contractor's expense.

Set plants 2" above existing grade to allow for settling.
 Set plants plumb and rigidly braced in position until planting mixture has been tamped solidly around ball.

Apply soil in accordance with standard industry practice for the

Thoroughly settle by water jetting and tamping soil in 6" lifts.

Indicipiny settle by water jetting and artiping soin in 6 miss. Prepare 3" dish outside root ball after planting. Thoroughly water all beds and plants. Stake trees and large shrubs as indicated on plans. Apply anti-desicant according to manufacturer's instructions. Apply commercially manufactured root stimulator as directed by printed instruction.

Plant and fertilize bedding plants per trade standards.

Apply 3" mulch top dressing

B. Balled Plants

1. Place in pit of planting mixture that has been hand tamped prior to

placing plant.
Place with burlap intact to ground line. Top of ball to be 2" above surrounding soil to allow for settling.
Remove binding at top of ball and lay top of burlap back 6".
Do not pull wrapping from under ball, but cut all binding cord.
Do not plant if ball is cracked or broken before or during planting

process or if stem or trunk is loose.

6. Backfill with planting mixture in 6" lifts.

C. Container Grown Plants

1. Place in pit on planting mixture that has been hand tamped prior to

Place in the composition of the placing plant.

Cut cans on two sides with an acceptable can cutter, and remove root ball from can. Do not injure root ball.

Carefully remove plants without injury or damage to root balls.

Backfill with planting mixture in 6" lifts.

D. Mulching

Cover planting bed evenly with 3" of mulch. Water immediately after mulching. Where mulch has settled, add additional mulch to regain 3" thickness.

D. Pruning

Prune minimum necessary to remove injured twigs and branches Prune minimum necessary to remove injured twigs and branches, dead wood, and succors; remove approximately 1/3 of twig growth as directed by landscape architect; do not cut leaders or other major branches of plant unless directed by landscape architect. Make cuts flush, leaving no stubs. Paint cuts over 1' diameter with approved tree wound paint. Do not prune evergreens except to remove injured branches.

 Stake edging alignment with string line prior to installation. Use framing square to insure right angles are true. square to insure right angles are true.

Install all edging straight and true as indicated on drawings. Where edging layout is circular in design, maintain true and constant radii as shown.

C. When required on slopes, make vertical cuts (approximately 6' on center) on bottom of edging to allow bending without crimping edging.

D. Install edging so that approximately 1" is exposed on lawn side. Edging should not be visible from bed side after application of mulch.

E. Align edging with architectural features (ie pavement joints, windows, columns, wall, etc.) when drawings indicate.

F. Bend all comers, do not cut comers.

Interlock all pieces with pre-fabricated connectors.

Install with all stakes on inside of planting bed. Remove, file off all sharp corners and burrs.

OWNER / DEVELOPER

BENCHMARK AMERICAN HOMES LLC BENCHMARK AMERICAN HOMES, LLC TEL.: (817) 875-8631

3.07 CLEAN-UP

A. Sweep and wash all paved surfaces

Remove all planting and construction debris from site, including rocks, trash and all other miscellaneous materials.

3.08 MAINTENANCE

Pruning Spraying

Mowing (weekly)

Provide Owner and Landscape Architect with preferred maintenance schedule in writing. Schedule shall include the above-listed tasks and shall address all frequencies, rates, times, levels, etc.

END OF SECTION

Drawn By <u>GAC</u> Checked By <u>JRF</u> Revisions





ZONING EXHIBIT

DIAMOND PARK ESTATES

EXIST. ZONING "LR LOCAL RETAIL" PROP. ZONING "RI-PD RESIDENTIAL INFILL PLANNED DEVELOPMENT" LOTS 1-2 BLOCK 1, LOTS 1-11, 12X & 13-18 BLOCK 1

AND 1X & 2X BLOCK 100

BEING 3.535 ACRES OF LAND 17 RESIDENTIAL LOTS & 2 PRIVATE OPEN SPACE LOT

IN THE WILLIAMS TRIMBLE SURVEY ABSTRACT NO. 1520 AND R.P. BARTON SURVEY ABSTRACT NO. 175 AN ADDITION TO THE CITY OF NORTH RICHLAND HILLS, TARRANT COUNTY, TEXAS.

PREPARED OCTOBER 2017

ZC 2017-11 PLANTING SPECS ESTATES

PARK DIAMOND I GLENVIEW D NORTH RICH

Sheet No.

L-4

FINISH GRADING, LAWN WORK, WILD FLOWERS

PART I - GENERAL

1.01 DESCRIPTION

- Work includes turf establishment (sod, hydromulch, etc.) as described on
- Make required analysis and material tests for topsoil, fertilizers, and other materials of similar character per current methods of the Association of Official Agricultural Chemists, when required.
- C. Grass seed shall conform to tolerances for germination and purity per applicable standards of U.S. Department of Agriculture.
- The turf contractor shall have a stand of grass established prior to substantial completion of the project. If this is not possible due to time of year or schedule, he shall maintain and protect the seeded areas until the grass is established.

2.01 TOPSOIL MATERIAL

- Topsoil material (stockpiled, as specified in Specifications) has been saved for use in finish grading. After sifting out all plant growth, rubbish, and stones, use for areas designated to receive grass. If stockpiled topsoil is not sufficient quantity to complete work, furnish acceptable topsoil from another approved source to provide four inches (4) of topsoil for grass areas unless otherwise noted on drawings. Grass areas shall be defined as the graded areas disturbed during construction not to be paved or built upon.
- Acceptable topsoil material shall be defined as natural, fertile, agricultural Acceptable topsoir material shall be defined as natural, lettile, agricultural soil, capable of sustaining vigorous plant growth, uniform composition throughout admixture of subsoil, free of stones, lumps, plants, and their roots, sticks, or other extraneous matter; do not deliver while in a frozen or

- A. Provide a commercial balanced fertilizer delivered to the job in bags labeled with manufacturer's guaranteed analysis. Store in weatherproof s place in such a manner that its effectiveness will not be impaired.
- B. Fertilizer shall be a grade containing the percentages of plant food elements by weight as specified elsewhere in these specifications.
- Availability of various elements shall be per Standards of the Association of Official Agricultural Chemists.

2 03 GRASS SEED

- Grass seed shall be of the previous season's crop and the date of analysis shown on each bag shall be within nine (9) months of the time of delivery to the project. When requested by the Owner or Representative, the seeding contractor shall furnish a sample of seed from each bag for testing.

- Dry straw or hay of good quality, free of seeds of competing plants and at such rate of 1 1/2 2 tons per acre; or,
- Wood cellulose or cane fiber mulch at a rate of 1,000 pounds per acre when the slope is 3/4:1 and steeper; or,
- A combination of good quality dry straw or hay free of seeds of competing plants at a rate of 2 1/2 tons per acre and wood cellulose or cane fiber mulch at a rate of 500 pounds per acre. This combination shall be used when the slope is flatter than 3/4:1; or,
- Sericea lespedza seed bearing hay at a rate of 3 tons per acre. This mulch may be applied green or air dried, but must contain mature seed.
- Manufactured mulch materials, such as soil retention blankets, erosion control netting, or others that may be required on special areas of high water concentration or unstable soils. When these materials are used, follow the manufacturer's recommendations for installation.

Wood cellulose fiber or cane fiber mulch will be applied with hydraulic seeding and fertilizing equipment. All slurry ingredients shall be mixed to form a homogeneous slurry and spray applied within one hour after the

When wood cellulose or cane fiber mulch is used at the 500 pound per acre rate, straw or hay mulch with asphalt emulsion is applied over this to complete the mulch.

Wood cellulose or cane fiber mulch at the 1,000 pound per acre rate is used alone where other mulch material will not stick

Wood cellulose or cane fiber mulch is self anchoring.

PART III - EXECUTION

The site grading contractor will be responsible to stockpile acceptable topsoil In a site grading countain or will be repositioned to stockery acceptance loops in a sufficient quantity to provide four inches (4°) minimum cover for all grass areas, including but not inlined to all custod slands, and topolar loops of parting mounds/berns at the appropriate height and width as defined and shown on the landscaping and/or planting drawings. The topool and grass areas shall be further defined as any area disturbed during the grading and construction.

The site grading contractor shall be responsible for backfilling of all curbed islands and planting mounds/berms. They shall also be responsible for removal of all stones, roots, and raking of all topsoil areas hat are to be seeded and/or planted. It will also be the site grading contractor's responsibility to provide fertilizer, grass seed, and any additional topsoil required and mulching.

3.03 WILD FLOWERS

Cosmos
Ox-Eyed Daisy
Side Oats Grama

Showy Primrose Plains Coreopsis Black Eyed Susan Indian Blanket Texas Bluebonnet Little Bluestem

All areas to be seeded shall be mulched.

3.04 MULCH

3.05 PROTECTION

3.07 REHYDROMULCHING

- Remove stones, roots, rubbish and other deleterious materials from topsoiled areas that are to be seeded.
- B. Immediately prior to sowing seed, scarify ground as necessary; rake until surface is smooth and friable. Sow seed evenly, lightly wood rake into ground, then roil ground with suitable roller, water thoroughly with fine spray. During any weather, keep lawn watered with sprinklers or other approved methods. Re-seed any areas not doing well or damaged. At Intervals as
- C Provide permanent grass seeding for lawn areas so indicated. Seed in accordance with the following schedule (unless otherwise directed by Owner or Owner's Representative::
 - Sow areas ready for seeding between March 1 and October 1 with Hulled Common Bermuda at a rate of 85 pounds per acre.

3 Apply fertilizer at a rate of 20/25 pounds per 1 000 square feet

10 pounds/acre 15 pounds/acre 5 pounds/acre 4 pounds/acre 0.5 pounds/acre 2 pounds/acre 10 pounds/acre 4 pounds/acre 4 pounds/acre

Mulch materials shall be applied uniformly over the seeded area. Mulch shall be straw and shall be at the rate of 1 1/2 - 2 tons per acre

Provide, at no additional cost to Owner, fencing, railing, wire or other types of protection for topsoiled and seeded areas against trespassing and damage. If lawns are damaged prior to Final Acceptance, treat or replace them as directed. Remove protection when so directed.

Provide maintenance from start of work until Final Acceptance. Maintenanc includes watering of lawns, weeding, mowing, edging, repairs of wash-outs and gullies, repairs to protection, and other necessary work of maintenance Maintain slopes against erosion.

The Owner's representative will designate areas to be replanted. Areas on which a stand of growing grass is not present in a reasonable length of time, (Bermuda grass seed should be germinating in Fe-3 days) shall be prepared, reseeded and remulched, as specified for original planting at no additional cost to Owner. A stand shall be defined as live plants from seed occurring a a rate of not less than 1,000 growing plants per square foot. Replanting required because of faulty operations or negligence on the part of the Contractor shall be performed without cost to Owner.

Areas indicated on plans to receive wild flower coverage shall br fine graded, fertilized, and prepared in a manner similar to traditional turf establishment.

- Sow areas ready for seeding between October 1 and March 1 with Unhulled Common Bermuda at a rate of 90 pounds per acre, and Annual Rye Grass at the rate of 50 pounds per acre.

- - Only during suitable weather and soil conditions.

 As specifically authorized by the Owner's Representative.
- Schedule Only after all other construction is complete.
- C. Protect and Maintain Sodded Areas

- Sod: As specified on drawings, weed, insect, and disease free having a minimum of 1 inch of topsoil attached to the roots and cut no more than three days prior to installation.

 The sod shall be cut in strips of at least 1/2 sq. yd. and not more than 1 sq. yd. Sod shall be cut into strips not less than 1/2' in width or more than 9' in length. At the time of harvest, the top growth shall not exceed 3" in length.

 All sod shall conform to the laws of the State and shall be obtained from sources meeting the approval of the Department of Agriculture, Division of Entomology.
- Division of Entomology

SECTION 02922

PART I - GENERAL 1.01 DESCRIPTION

- B. Related Work Specified Elsewhere
- Finish Grading, Section 02800 Finish Grading, Section 02930
 Lawns and Grasses, Section 02930

1.02 REFERENCE STANDARDS

A Standardized Plant Names

American Joint Committee of Horticultural Nomenclature

B. Texas Highway Department - Standard Specifications for Construction, Item 164, Seeding for Erosion Control.

- A. Vendors Certification That Sod Meets Texas State Sod Law

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- B Fertilizer
- Unopened bags labeled with the analysis.
 Conform to Texas Fertilizer Law.

PART II - PRODUCTS

2.01 MATERIALS

- Uniform in composition, free flowing. Suitable for application in approved equip Analysis of 16-20-0, 16-8-8 or as directed
- - Free of oil, acid, alkali, salts or other substances harmful to growth

PART III - EXECUTION

3.01 SOD BED PREPARATION

- A. Cultivate to a depth of four (4") inches by disking and tilling with a powe
- B. Clear surfaces of all materials:
 - Stumps, stones, and other objects larger than one inch (1").

- Remove soil clods larger than one inch (1*).
 Grade areas to smooth, even surface, removing ridges and filling depressions. Final grade to be below finish grade of curbing and edging as shown on details. All grades shall meet approval of Owner's Representative before sodding.

- Lightly water prepared grade, lay sod with staggered joints and with edges touching. Topdress with topsoil at edges if necessary to provide smooth surface. On slopes of 2 to 1 and greater, fasten sod in place with wood pegs (two each piece) or other approved method. Sod damaged by storage or during installation shall be rejected. Following settling, topdress with screened, approved
- water and termize at 5 lbs. per 1,000 sq. ft.
 Sod shall not be placed during a drought, nor during periods when
 sod is not normally placed in the area, and shall not be placed on
 frozen ground. No dry or frozen sod is acceptable.
 The contractor shall keep all keep all sodded areas moist and
 growing until Final Acceptance. All areas shall be maintained in an
 acceptable condition until acceptance by Owner.

B. Rolling:

- After placing sod, roll with a hand roller, weighing not more than 100 lbs. per foot of width, in two directions.
 Eliminate all air pockets; finished surface should be free of expection and definition.

3.05 MAINTENANCE AND MANAGEMENT

- Includes protection, replanting, maintaining grades, repair of erosion damage. Also includes weekly mowing at 1 1/2" height until final
- Resod damaged or unacceptable areas.
 Ruts, ridges, and other surface irregularities shall be corrected.
- END OF SECTION

ZONING EXHIBIT

DIAMOND PARK ESTATES

EXIST ZONING "LR LOCAL RETAIL" PROP. ZONING "RI-PD RESIDENTIAL INFILL PLANNED DEVELOPMENT" LOTS 1-2 BLOCK 1, LOTS 1-11, 12X & 13-18 BLOCK 1

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PREPARED OCTOBER 2017

ZC 2017-11 TURF SPECS Drawn By <u>GAC</u> Checked By <u>JRF</u> Revisions





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ESTATES PARK DIAMOND I GLENVIEW D NORTH RICH

Sheet No.

END OF SECTION

Remove construction equipment, excess material and tools. Cart away fror site any debris resulting from work of this section and dispose of as directed.

A. At time of final inspection of work, and before final acceptance, clean paved areas that are solled or stained by operations of work of this section. Clean by sweeping or washing, and remove all defacements or stains.

3.08 FINAL CLEAN-UP

OWNER / DEVELOPER

BENCHMARK AMERICAN HOMES LLC BENCHMARK AMERICAN HOMES, LLC TEL.: (817) 875-8631