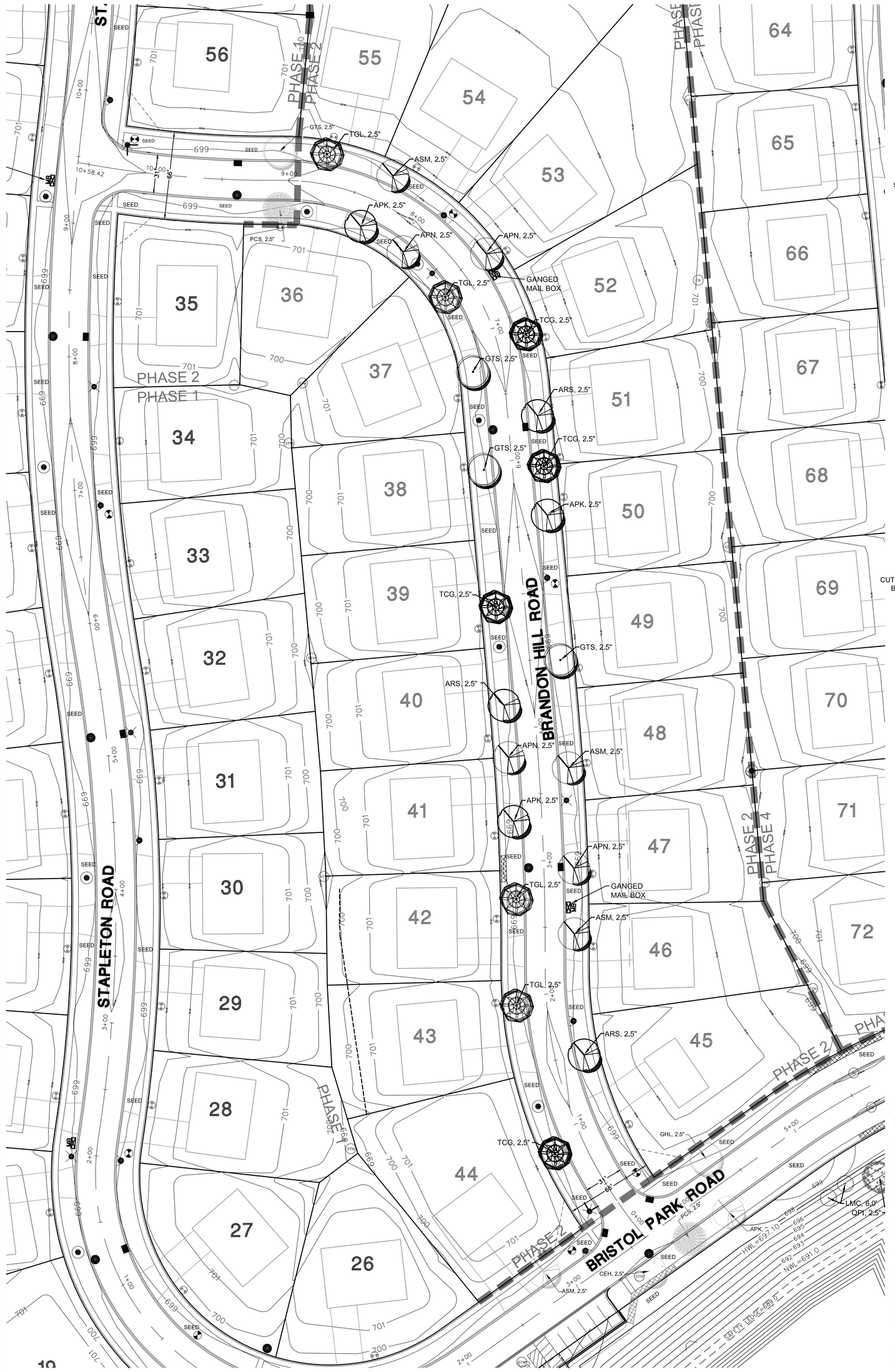
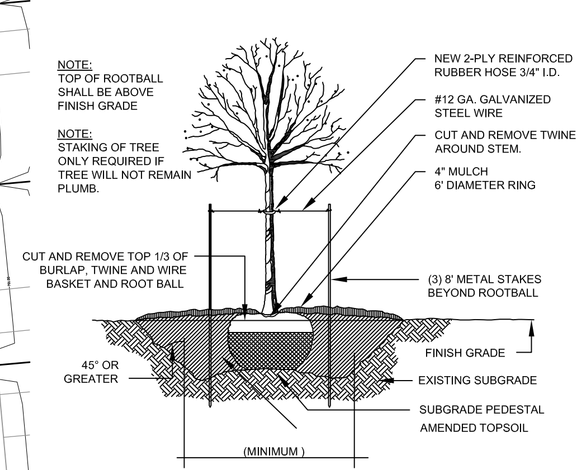


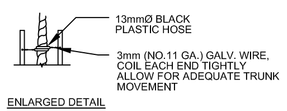


(Note: Tree Pits shall be dug one foot wider than the root ball)

(Note: New trees shall have their trunks wrapped, in order to prevent evaporation and sunscald)

2 TREE DETAIL

N.T.S.



LANDSCAPE CALCULATIONS

Interior Parkway Landscape - 3,821 l.f. Frontage
1 Tree per 40 L.F. / 856 L.F. = 22 Trees Required
3 Different Species Required

Interior Parkway Landscape Provided
24 - Large Trees 2.5 " Cal.
24 Total Interior Parkway Trees Provided
7 Different Species Provided

Bristol Park

New Lenox, Illinois

Shade Trees
2.5" Shade Trees @ 30' On Center Minimum, 40' On Center Maximum.
Shade trees shall be spaced as shown as space allows.
Trees placement and species based on field conditions.
10' setback from Driveways, Fire Hydrands and Street Lights.
30' Setback from R.O.W. lines

Plant List

Symbol	Botanical Name	Common Name	Specification	Quantity
Deciduous Trees				
ARS	Acer rubrum 'Red Sunset'	Red Maple	2.5" Caliper	3
ASM	Acer rubrum 'Sienna Glen'Sienna	Glen Maple	2.5" Caliper	3
APN	Acer platanoides	Norway Maple	2.5" Caliper	4
APK	Acer platanoides 'Emerald Luster'	Emerald Luster Norway Maple	2.5" Caliper	3
GTS	Gleditsia triacanthos var. inermis 'Skyline'	Skyline Honeylocust	2.5" Caliper	3
TGL	Tilia cordata ' Glenleven'	Glenleven Linden	2.5" Caliper	4
TCG	Tilia cordata 'Greenspire'	Greenspire Linden	2.5" Caliper	4
Seed	Seed	Certified		17,887 S.F.
Mulch	Double Shredded Bark Mulch	Mulch		11 C.Y.

PLANTING SPECIFICATIONS

Plant Materials/Grading

(02950) TREES, SHRUBS, AND GROUND COVER

PART 1 – GENERAL

1.01 DELIVERY, STORAGE, AND HANDLING:
- A. Deliver fertilizer materials in original, unopened, and undamaged containers showing weight, analysis, and name of manufacturer.
- B. Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected.
- C. Cover plants that are transported on open vehicles with a protective covering to prevent wind burn.
- D. Provide dry, loose topsoil for planting bed mixes. Frozen or muddy topsoil is not acceptable.

1.02 PROJECT CONDITIONS:
- A. Work notification: Notify clients at least 2 working days prior to installation of plant material.
- B. Protect existing utilities, paving and other facilities from damage caused by landscaping operations.
- C. A complete list of plants, including a schedule of sizes, quantities and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern. The contractor must supply sufficient materials to complete the job as drawn.

1.03 GUARANTEE:
- A. Guarantee plant material to remain alive and be in healthy, vigorous condition for a period of one year following the date of Final Acceptance by the client.
- B. Replace, in accordance with the drawings and specifications, all plants that are dead or, as determined by the client, are in an unhealthy or unsightly condition. Guarantee all replacement plants for 1 additional year after installation. Replacement plants which are dead or unacceptable within 1 year of their installation may be replaced with unguaranteed plants or removed, at the discretion of the owner. Reimburse the owner 50% of the price of each removed plant, which is not replaced.
- C. Warranty shall include on-site relocation of existing plants. Contractor has the choice of transplanting on site plant material or to substitute new plant material as per plan. Contractors to specify their preference on the contract bid.

PART 2 – PRODUCTS

2.01 MATERIALS:
- A. Plants:
  1. Provide plants typical of their species or variety; with normal, densely-developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sunscald injuries, frost cracks, abrasions of the bark, plant disease, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces. Plants held in storage will be rejected if they show signs of growth during storage.
  2. Container-grown stock: Growth in a container for sufficient length of time for the root system to have developed to hold its soil together, firm and whole.
  3. Provide shade and evergreen tree species with a single main trunk unless otherwise specified or accepted. Shade and ornamental trees specified by height shall be multi-stemmed.
  4. Provide plants matched in form when arranged in groups.
  5. Provide evergreen trees branched to the ground unless otherwise specified oraccepted.
  6. Provide shrubs and small plants meeting the requirements for spread and height indicated in the plant list.
     - a. The measurements for height shall be taken from the ground level to the average height of the top of the plant and not the longest branch.
     - b. Single stemmed or thin plants will be rejected.
     - c. Side branches shall be generous, well-twigged, and the plant as a whole well brushed to the ground.
- B. Sod
  1. Provide an "approved" nursery grown blend of improved Kentucky Bluegrass varieties that is native to the locality of the work. Sod, that has been grown on soil high in organic matter, such as peat, is not acceptable.
  2. Salt-Tolerant Sod - In areas labeled Salt-Tolerant Sod, provide sod per I.D.O.T. specs or equal. Salt-Tolerant Sod to be certified as such in writing by grower.
- C. Seed
  1. Lawn seed: Fresh, clean seed from the most recently harvested crop which complies with all local, state and federal seed and weed laws and is free from Poa Annua, bent grass and noxious weeds. Mix to the specified proportions by weight.
  2. Blend:

Blend:	Percent:
Baron Kentucky Bluegrass	50%
Pennlawn Creeping red Fescue	15%
Del Ray Perennial Rye	15%
Pennfine Perennial Rye	10%
Goalie Perennial Rye	10%

Install seed under favorable weather conditons unless approved by the Owner's representative. The conditons of the guarentee apply reguardless of the date of installation. the general accepted times for seeding are:

Spring – April1st to May 31st
Fall – August 15th to september 30th

  3. Fertilizer:
     1. Granular, non-burning product composed of not less than 50% organic slow acting, guaranteed analysis professional fertilizer.
        - a. Starter fertilizer with an approximate analysis of 6N, 24P205, 24K20, or simlar approved composition.
        - b. Post emergent fertilizer with an approximate analysis of 30-5-5.
  4. Straw Mulch: Clean oat or wheat straw well seasoned before bailing, free from mature seed-bearing stalks or roots of prohibited or noxious weeds.
  5. Tackifier : Liquid concentrate diluted with water forming a transparent 3-dimensional film-like crust permeable to water aid air and containing no agents toxic to seed germination.
     AVAILABLE MANUFACTURERS AND TYPES:
     POLYBIND DLR: Celtite, Inc., Cleveland, OH
     CURASOL AK: American Hoechst Corporation, Elk Grove, Illinois

2.02 ACCESSORIES:
- A. Topsoil: Fertile, friable, natural topsoil characteristic of the productive soil in the vicinity, reasonably free from clay, lumps, stones, roots and other foreign material.
- B. Amended Topsoil: A mixture of 60% topsoil and 40% mushroom compost which have been thoroughly incorporated.
- C. Mulch: 6 month old, well rotted, shredded, cedar or hardwood bark mulch, not larger than 4" in length and 1/2" in width, free of woodchips and sawdust.
- D. Fertilizer:
  1. Bonemeal with an approximate analysis of 4% nitrogen, and 20% phosphorous.
  2. Commercial 10-10-10 fertilizer.

PART 3 – EXECUTION

3.01 INSPECTION:
- A. Examine proposed planting areas and conditions of installation. Do not start planting work until unsatisfactory conditions are corrected
- B. Contact J.U.L.I.E. (800-392-0123) 48 hours prior to planning digging operations to confirm underground utility locations.

3.02 PREPARATION:
- A. Locate plants as indicated and approved in the field by the client. If obstructions are encountered that are not shown on the drawing, do not proceed with planting operations until alternate plant locations have been selected and approved by the client.
- B. Excavate circular plant pits with sloped side, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 12" greater than the diameter of the root system and 24" greater for trees. Depth of pit shall accommodate the root system. Remove excavated materials from the site.

3.03 INSTALLATION:
- A. Topsoil:
  1. Uniformly distribute and spread topsoil. Provide 4" average depth at new lawn areas. Provide additional imported topsoil as required to complete the work. Use loose, dry topsoil. Do not use frozen or muddy topsoil. Place during dry weather.
- B. Trees and shrubs:
  1. Get planting material in the planting pit to proper grade and alignment. Set plants upright, plumb and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material above the finish grade. Do not fill around trunks or stems. Backfill the pit with topsoil. Do not use frozen or muddy mixture for backfilling. Form a ring of soil around the edge of each planting pit to retain water.
  2. After balled or burlapped plants are set, muddle topsoil mixture around bases of balls and fill all voids.
  3. Mix bonemeal or approved commercial fertilizer at 10 lbs. per cubic yard of backfill.
- C. Groundcovers, Perennials and Annuals:
  1. Where groundcovers, perennials and annuals arespecified on the plans, rototil entire plant bed to a 6" depth using a mixture of 60% loose topsoil, 40% mushroom compost. Incorporate commercial 10-10-10 fertilizer into prepared soil mixture at an approximate rate of 1 lb. per square yard.
  2. Space plants as specified. Fill entire bed to within 6" of edge.
  3. Apply commercial pre-emergent herbicide (Preen or equal) per manufacturer's directions to entire groundcover bed.
  4. Mulch with 2"-3" of mushroom compost.
- D. Sod:
  1. Lay sod to form a solid mass with tightly-fitted joints. Butt ends and sides of sod strips. Do not overlay edges. Stagger strips to offset joints in adjacent courses. Remove excess sod to avoid smothering of adjacent grass. Provide sod pad top flush with adjacent curbs, sidewalks, drains and seeded areas.
  2. Roll with light lawn roller to ensure contact with sub-grade.
- E. Seed:
  1. Apply fertilizer with mechanical rotary or drop type distributor, thoroughly and evenly incorporated with top soil to a depth of 3" by discing or other approved method. Fertilize areas inaccessible to power equipment with hand tools and incorporate into soil. Restore prepared areas to specified condition if eroded, settled, or otherwise disturbed after fine grading and prior to seeding.
  2. Sow grass seed at a rate of 300 lbs. per acre using the following methods:
     - a. Conventional Seeding:
       1. Apply seed with a rotary or drop type distributor. Install seed evenly by sowing equal quantities in two directions, at right angles to each other.
       2. After seeding, rake soilsurface lightly to incorporate seed. roll with light lawn roller.
       3. Seed indicated areas within contract limits and areas adjoining contract limits disturbed as a result of construction operations.
  3. Within 24 hours, place straw mulch uniformly at 2 1/2 tons per acre using manual or mechanical methods. Crimp straw into soil to secure. Anchor straw mulch with liquid tackifier, applied uniformly at a rate of 60 gallons per acre, on slopes of 3:1 or steeper.
- F. Mulching:
  1. Mulch tree and planting pits and shrub beds with required mulching material 3" deep immediately after planting. Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.
- G. Wrapping, guying:
  1. Inspect trees for injury to trunks, evidence of insect infestation, and improper pruning before wrapping.
  2. Wrap trunks of all trees spirally from bottom to top with specified tree wrap and secure in place.
     - a. Overlap 1/2 the width of the tree wrap strip and cover the trunk from the ground to the height of the second branch.
     - b. Secure tree wrap in place with twine wound spirally downward in opposite direction, tied around the tree at least 3 places in addition to the top and bottom.
  3. Guying:
     - a. When specified, guy all trees immediately after lawn seeding or sodding operations and prior to acceptance. When high winds or other conditions which may effect tree survival or appearance occur, the client may require immediate guying.
     - b. Guy deciduous trees over 3" caliper. Guy evergreen trees over 8'-0" tall. See planting details for method.
- H. Pruning:
  1. Prune branches of deciduous stock, after planting, to balance the loss of roots and preserve the natural character appropriate to the particular plant requirements. In general, remove 1/4 to 1/3 of the leaf bearing buds, proportion shall in all cases be acceptable to the client. Remove or cut back broken, damaged, and unsymmetrical growth of new wood Plant shall meet height specifications after pruning.
  2. Multiple leader plants: Preserve the leader which will best promote the symmetry of the plant. Cut branches flush with the trunk or main branch, at a point beyond the lateral shoot or bud a distance of not less than 1/2 the diameter of the supporting branch. make cut on an angle.
  3. Prune evergreens only to remove broken or damaged branches.
- I. Care of existing trees:
  1. Selectively prune existing trees in construction limits, under Landscape Architect's direction. Remove sucker shoots, dead, rubbing, and damaged branching.
  2. Clean up miscellaneous organic debriswithin construction limits.
- J. Tree location:
  1. Prune, dig, ball and burlap, and move designated trees for relocation to the designated plant storage area for healing-in of materials until final planting areas are prepared.
     - a. Maintain plants in storage areas by bracing plants in vertical position and setting balls in an enclosed berm of topsoil or bark. Water as required to maintain adequate root moisture.
     - b. Re-burlap plant balls if required before final transplanting operations.
     - c. Move to final locations shown on the drawings and plant in accordance with specified tree planting requirements.
     - d. Tree spading of plants is acceptable upon approval by client.

3.04 MAINTENANCE:
- A. Comply to owner requirements for length of maintenance period for work forall plant material.
- B. Maintenance shall include pruning, cultivating, weeding, watering, and application of appropriate insecticides and fungicides necessary to maintain plants free of insects and disease.
  1. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent material and remove dead material.
  2. Tighten and repair guy wires and stakes as required.
  3. Correct defective work as soon as possible after deficiencies became apparent and weather and season permit.

GENERAL PLANTING NOTES

A. Pruning

All pruning shall be performed by qualified personnel, experienced in hortlcultural practices and operations, and in such a manner as to preserve the natural growth habit of each plant.
All pruning shall be done with sharp tools in accordance with the best horticultural practices.
The ends of all broken and damaged roots of 1/4 inch or larger shall be pruned with a clean cut, removing only the injured portion. All broken branches, stubs, and improper cuts of former pruning shall be removed.

1. Deciduous Trees: Pruning shall consist of removing damaged limbs and twigs, and shaping of tree as dictated by the habit of growth of the various types of the trees, or as directed by the Owner. Trees shall not be "thinned". The leader and terminal buds shall not be cut unless directed by the Owner.
2. Deciduous Shrubs: In general, only shrubs experiencing dieback shall be cut back a maximum of 1/4 of their height. Shrubs that are slow growing or do not sucker readily shall be pruned in the same manner as deciduous shade trees.
3. Evergreens: Evergreens shall not be pruned except to remove broken branches.

B. Soil Mixtures

All plants shall be backfilled with existing soil. In heavy clay soils, the backfill may be amended as follows:
1. Deciduous plants shall be backfilled with a mixture of six (6) parts soil mixed with one (1) part uncompressed peat moss by volume.
2. Evergreen plants shall be backfilled with a mixture of three (3) parts soil mixed with one (1) part mushroom compost by volume.
3. Groundcovers, flowers, and perennial plants shall be planted and backfilled in soil amended with 1/3 mushroom compost by volume.
4. Topsoil shall be free from large roots, sticks, weeds, brush, subsoil, clay lumps, or stones larger than one (1") inch in diameter, or other litter and extraneous matter undesirable to plant growth.
5. All beds shall be knife edged with a flat blade shovel prior to installation of mulch.
6. All landscape beds shall receive 3" compacted depth of shredded hardwood bark mulch (unless otherwise specified). Keep mulch a minimum of 3" away from stems of woody plants, and 1" from perennials.
7. Newly planted trees and shrubs shall not be fertilized for a minimum of 1 year, and then only with a slow release balanced fertilizer recommended for trees and shrubs.

C. DISTURBED AREAS

1. All areas disturbed by construction activities outside of planting areas and not otherwise specified with sod or other plantings
shall be seeded with Kentucky Bluegrass seed as specified in the specifications.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
Call 1-800-892-0123 48 hours before you dig (EXCLUDING SAT., SUN. & HOL.)

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REVISIONS: 1 2 3 4 5 6 7 8 9 10

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CLIENT:
DRH CAMBRIDGE HOMES, INC.
800 S. MILWAUKEE AVE., SUITE 210
LIBERTYVILLE, ILLINOIS 60048

PROJECT:
BRISTOL PARK, PHASE 2
VILLAGE OF NEW LENOX, ILLINOIS

PROJECT NO: R423.31	DESIGNED BY: M.R.R.
DATE: 03/5/2014	DRAWN BY: H.W.S.
SCALE: 1"=50'	CHECKED BY: M.R.R.

FINAL LANDSCAPE PLAN, SPECIFICATIONS & DETAIL

SHEET NO. 2 OF 2