ALL MINIMUM SIZES LISTED IN PLANT SCHEDULE SHALL BE MET: CALIPER, HEIGHT, AND ROOT BALL

SHADE AND FLOWERING TREES

	CALIPER	HEIGHT TYPE 1	HEIGHT TYPE 2	MINIMUM DIAMETER BALL	BALL DEPTH
	INCHES	FEET	FEET	INCHES	INCHES
MEASURED 6" ABOVE GRADE	1"	8'–10'	6'–7'	16"	12"
	1–1/2"	10'–12'	8'–9'	20"	15"
	2"	12'–14'	8'–10'	24"	16"
	2–1/2"	12'–14'	8'–10'	28"	18"
	3"	14'–16'	10'–12'	32"	19"
	3–1/2"	14'–16'	10'–12'	38"	23"
	4"	16'–18'	10'–12'	42"	25"
MEASURED 12" ABOVE GRADE	4–1/2"	16'–18'	10'–12'	48"	29"
	5"	18'+	12'+	54"	32"
	5–1/2"	18'+	12'+	57"	34"
	6"	20'+	14'+	60"	36"
	7"	24'+	16'+	70"	42"
	8"	26'+	18'+	80"	48"

SOURCE: AMERICAN STANDARD FOR NURSERY STOCK
CALIPER TAKES PRECEDENCE OVER HEIGHT FOR TYPE I SHADE TREES. BOTH MINIMUMS MUST BE MET.

TYPE 1 (LARGE SHADE TREES)

ACER RUBRUM	PLATANUS *SPP*
ACER SACCHARUM	QUERCUS *SPP*
BETULA *SPP*	TAXODIUM *SPP*
GINKGO *SPP*	SALIX *SPP*
GLEDITISA *SPP*	ZELKOVA *SPP*

TYPE 2 (MEDIUM/SLOW SHADE TREES)

AESCULUS *SPP*	MAGNOLIA GRANDIFLORA
CELTIS *SPP*	NYSSA *SPP*
CLADRASTIS LUTEA	OLEA EUROPA
FAGUS SYLVATICA	QUERCUS ALBA
KOELREUTERIA *SPP*	SORBUS *SPP*
LABURNUM *SPP*	TILIA CORDATA
LIQUIDAMBAR *SPP*	ULMUS PARVIFOLIA

TYPE 3 (SMALL UPRIGHT TREES)

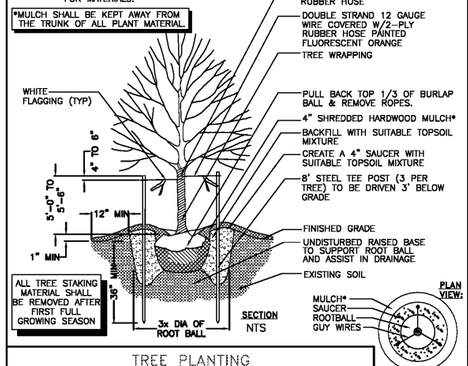
ACER CAMPESTRE	MAGNOLIA VIRGINIANA
AMELANCHIER *SPP*	PRUNUS *SPP*
CARPINUS *SPP*	PYRUS *SPP*
CERCIS *SPP*	STYRAX *SPP*
CRATAEGUS *SPP*	SYRINGA RETICULATA
OXYDENDRUM *SPP*	

TYPE 4 (SMALL SPREADING TREES)

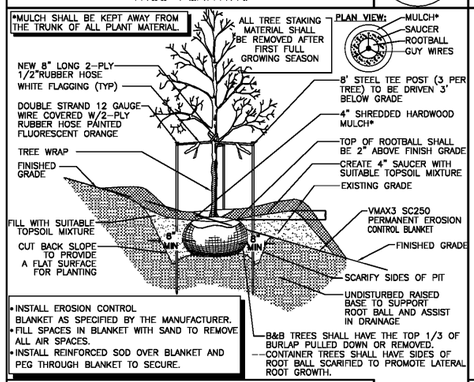
ACER PALMATUM	
ACER GRISEUM	
CORNUS *SPP*	
LAGERSTROMIA *SPP*	
MAGNOLIA SOULANGIANA	
MAGNOLIA STELLATA	
VITEX *SPP*	

TREE SIZE/ROOT BALL RELATIONSHIP

NOTE: SEE PLANS & SPECS FOR MATERIALS.



TREE PLANTING



TREE PLANTINGS ON SLOPE NTS

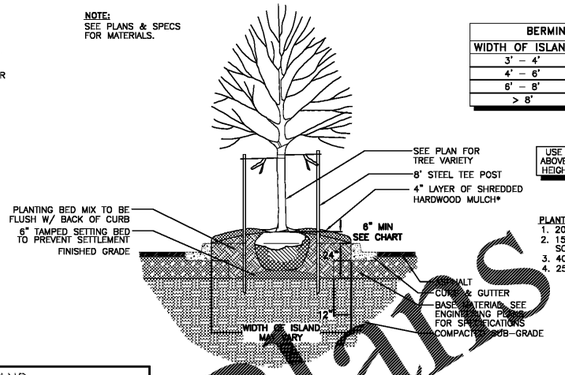
PARKING LOT ISLAND PREPARATION

1. REMOVE ALL THE COMPACTED STONE AND FILL DIRT OUT OF THE CENTER OF THE ISLANDS DOWN TO A DEPTH OF 24" BELOW THE TOP OF THE CONCRETE CURB.
2. ADD PLANTING BED MIX AND FIRMLY TAMP TO CREATE A SETTING BED (6" MIN) UNDER ROOTBALL.
3. ADD 24" OF SUITABLE PLANTING BED MIX ON TOP OF THE WASHED GRAVEL. LIGHTLY TAMP THE PLANTING BED MIX IN 8" LIFTS.
4. ADD ANOTHER LAYER OF PLANTING BED MIX IN ADDITION TO THE 24" LAYER TO ACHIEVE THE REQUIRED BERMING EFFECT. MAKE SURE TO ADD THE NECESSARY AMOUNT OF PLANTING BED MIX TO ACHIEVE THE CORRECT BERMING HEIGHT.

NOTE:
SEE PLANS & SPECS FOR MATERIALS.

BERMING CHART	
WIDTH OF ISLAND	BERM HEIGHT
3' – 4'	6"
4' – 6'	8"
6' – 8'	12"
> 8'	1–1/2" / 1'–0" WIDTH

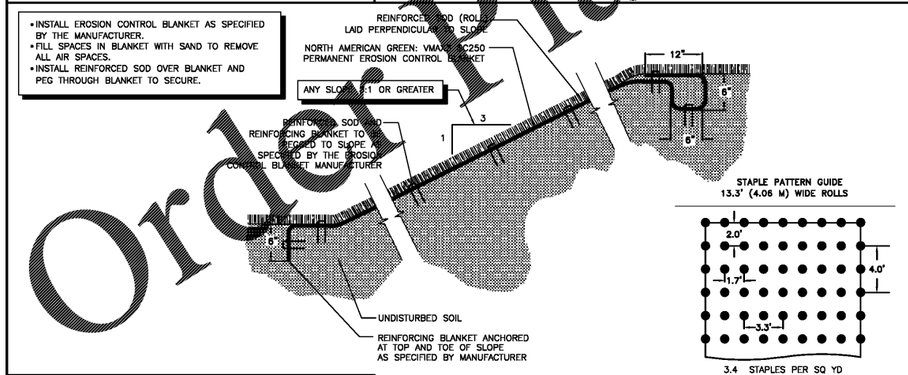
USE THIS BERMING CHART ABOVE TO CALCULATE BERM HEIGHTS FOR EACH ISLAND.



ALL TREE STAKING MATERIAL SHALL BE REMOVED AFTER THE FIRST FULL GROWING SEASON

*MULCH SHALL KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

TYPICAL ISLAND NTS



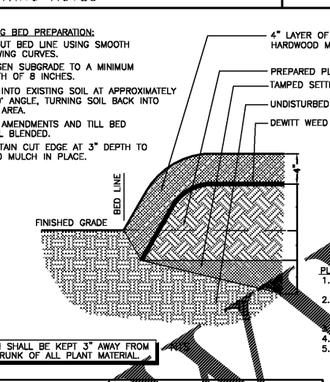
SODDING ON SLOPES NTS

PLANTING NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST. NO PLANTING SHALL BE INSTALLED IN CONFLICT WITH UTILITIES.
2. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON THE BEST AVAILABLE INFORMATION AND SHALL BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ON THE PROJECT SITE AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO PROCEEDING. IF UNFORESEEN CIRCUMSTANCES ARE ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK AND CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY.
4. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
5. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
6. ALL PLANTS SHALL BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
7. ALL PLANTS SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
8. ALL TREES SHALL BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
9. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
10. ALL LANDSCAPED AREAS SHALL BE SPRAYED WITH HERBICIDE 4 WEEKS PRIOR TO INSTALLATION OF LANDSCAPING. THE EXISTING MATERIAL SHALL BE REMOVED BEFORE ANY INSTALLATION OF PLANT MATERIAL OR SEED.
11. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
12. ALL NEW TREES SHALL HAVE 'MYCOR TREE SAVER' MYCORIZAL FUNGAL TREATMENT INSTALLED AT RATE RECOMMENDED BY MANUFACTURER AT THE TIME OF INSTALLATION.
13. CONTRACTOR IS RESPONSIBLE FOR ENSURING AND PROVIDING SUPPLEMENTAL WATER TO ALL LANDSCAPE PLANTINGS IF THE IRRIGATION SYSTEM FAILS TO OPERATE PROPERLY.
14. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL GUY WIRES AND TREE STAKING AT THE END OF THE FIRST GROWING SEASON AND PRIOR TO THE 1 YEAR WARRANTY PERIOD FOR TREES.
15. GRADE PLANTING BEDS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. ALL BED AREAS SHALL BE BERMED TO PROMOTE GOOD BED DRAINAGE (AFTER GENTLE TOPSOIL TAMPING).
16. ALL CONSTRUCTION AREAS TO RECEIVE TURFGRASS SHALL RECEIVE A 6" MIN DEPTH OF SUITABLE TOPSOIL MIX PER DETAILS AND SPECIFICATIONS.
17. PRIOR TO PLANTING OR SEEDING, MULTIPLE REPRESENTATIVE SAMPLES OF THE TOPSOIL SOURCE SHALL BE TAKEN AND SENT TO A QUALIFIED TESTING AGENCY FOR ANALYSIS. FERTILIZE SUITABLE TOPSOIL IN TURFGRASS AREAS AS PER TESTING AGENCY'S RECOMMENDATIONS FOR TURFGRASS SPECIES SPECIFIED ON PLANS. THE PLANTING BED MIX TO BE USED IN SHRUB PLANTING BEDS SHALL BE FERTILIZED AS PER TESTING AGENCY'S RECOMMENDATIONS FOR ORNAMENTAL PLANTINGS
18. ALL PLANTING BEDS SHALL HAVE 'SURFLAN' PRE–EMMERGENT HERBICIDE BROADCAST AT RATE RECOMMENDED BY MANUFACTURER.
19. PLANTING OPERATIONS SHALL ONLY TAKE PLACE DURING SUITABLE WEATHER CONDITIONS. PLANTS SHALL NOT BE INSTALLED WHEN THE SOIL IS EITHER HIGHLY SATURATED OR FROZEN.
20. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
21. ALL PLANTING AREAS, SHRUB, GROUND COVER, AND SEASONAL COLOR ANNUAL PLANTING BEDS SHALL BE COMPLETELY COVERED WITH SHREDDED HARDWOOD MULCH AND SHALL MAINTAIN A MINIMUM LAYER OF FOUR INCHES (4") IN DEPTH AFTER SETTLING.
22. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. ALL PLANT MATERIALS QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
23. ALL DISTURBED AREAS SHALL RECEIVE A 2" LAYER OF SUITABLE TOPSOIL AND SOD. WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. THIS IS EXCLUDING ALL LANDSCAPE ISLANDS AND PLANTING BED AREAS.
24. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ADJUSTMENT TO TREES FOR SETTLING AND LEVELING, ETC) ALL OF THE PLANTING AREAS AND LAWN UNTIL APPROVED BY THE LANDSCAPE ARCHITECT AND THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
25. ALL PLANT MATERIALS SHALL BE UNCONDITIONALLY GUARANTEED IN ACCORDANCE WITH THE FOLLOWING SPECIAL WARRANTY GUIDELINES AGAINST ALL DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH.
   - WARRANTY PERIOD FOR TREES AND SHRUBS: ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
   - WARRANTY PERIOD FOR GROUND COVER: SIX MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.

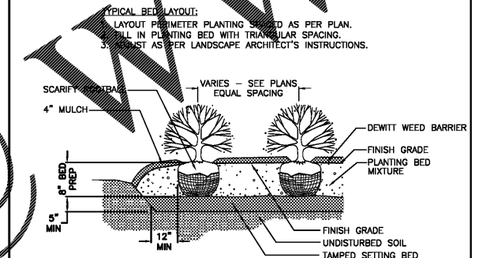
PLANTING NOTES

PLANTING BED PREPARATION:
1. LAYOUT BED LINE USING SMOOTH FLOWING CURVES.
2. LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 8 INCHES.
3. CUT INTO EXISTING SOIL AT APPROXIMATELY A 60° ANGLE, TURNING SOIL BACK INTO BED AREA.
4. ADD AMENDMENTS AND TILL BED UNTIL BLENDED.
5. MAINTAIN CUT EDGE AT 3" DEPTH TO HOLD MULCH IN PLACE.



PLANTING BED PREP

TYPICAL BED LAYOUT:
1. LAYOUT PERIMETER PLANTING BED AS PER PLAN.
2. FILL IN PLANTING BED WITH TRIANGULAR SPACING.
3. SPACE AS PER LANDSCAPE ARCHITECT'S INSTRUCTIONS.

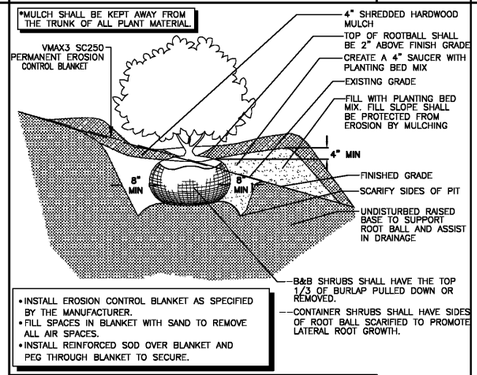


NTS

* NOTE:
MULCH SHALL BE A 4" LAYER OF SHREDDED HARDWOOD MULCH AFTER SETTLING – UNLESS OTHERWISE NOTED

*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

SHRUB PLANTINGS



SHRUB PLANTINGS ON SLOPE NTS

TEMPORARY SEEDING

- SEED: MIXTURE 70% RYEGRASS/30% WINTER WHEAT
  - 4LBS / 1,000 SQ FT.
- AREAS TO RECEIVE SEED SHALL BE FERTILIZED WITH A COMPLETE FERTILIZER PER EXTENSION SERVICE'S RECOMMENDATIONS.

SEED:

- SEED MIX: COMMON BERMUDA
- ALL DISTURBED AREAS NOT RECEIVING SOD SHALL BE SEEDED WITH SEED MIX UNLESS NOTED OTHERWISE.
- PREPARATION OF ALL AREAS TO BE HYDRO-SEEDED SHALL CONSIST OF THOROUGHLY LOOSENING OR CLARIFYING THE SOIL TO A DEPTH OF TWO (2) TO FOUR (4) INCHES USING A SPRING DISC OR OTHER APPROVED METHOD. AREAS TO BE HYDRO-SEEDED SHALL BE CLEARED OF ANY WEEDS, STICKS, OR OTHER DEBRIS. HYDRO-SEEDING MAY BE DONE IMMEDIATELY THEREAFTER PROVIDED SEED HAS REMAINED IN GOOD FRIABLE CONDITION AND HAS NOT BECOME TOO WATER ALL SEEDED SOIL IMMEDIATELY AFTER HYDRO-SEEDING USING SPRAY NOZZLES OR ANOTHER ACCEPTABLE METHOD WHICH DOES NOT CAUSE SOIL OR HYDRO-SEED TO WASH AWAY.
- SUITABLE TOPSOIL SHALL MEET THE FOLLOWING REQUIREMENTS:
  - IT SHALL BE A RICH EASILY FRIABLE BROWN OR BLACK LOAMY TO SANDY LOAM SOIL
  - 5% ORGANIC MATERIAL
  - PH OF 5.5 – 7.4
  - FREE OF WEEDS, LITTER, STIFF CLAY, OR STONES GREATER THAN 1" IN DIAMETER
  - HEAVY CLAYS AND FINE SILTY SOILS ARE NOT ACCEPTABLE
- ANY AREAS WHERE THE HYDRO-SEED MAY WASH OR BLOW AWAY OR DOES NOT GERMINATE SHALL BE RE-GRADED AND RE-SEEDED UNTIL AREA HAS A FULL AND HEALTHY STAND OF TURFGRASS.
- AREAS TO RECEIVE SEED SHALL BE FERTILIZED WITH A COMMERCIAL GRADE FERTILIZER AS PER EXTENSION SERVICE RECOMMENDATIONS FOR SPECIFIED TURFGRASS SPECIES.
- CONTRACTOR SHALL SEQUENCE SEEDING TO PROVIDE A HEALTHY STAND OF GRASS AT THE TIME OF THE OWNER'S POSSESSION.

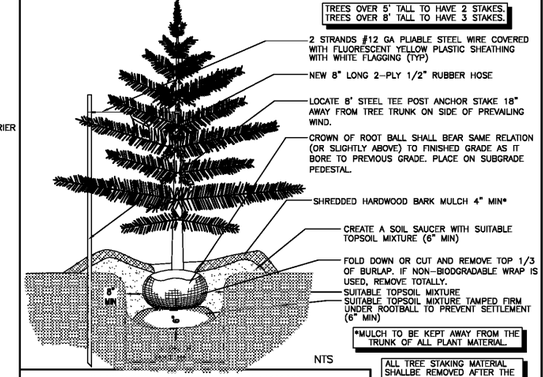
ALL UNSURFACED AREAS SHALL RECEIVE 4" TOPSOIL, AND SEED AND/OR SOD (WHERE SHOWN). WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

SOD SHALL BE PEGGED ON ALL SLOPES IN ORDER TO HOLD SOD IN PLACE. SEE SITEWORK SPECIFICATIONS FOR OTHER REQUIREMENTS.

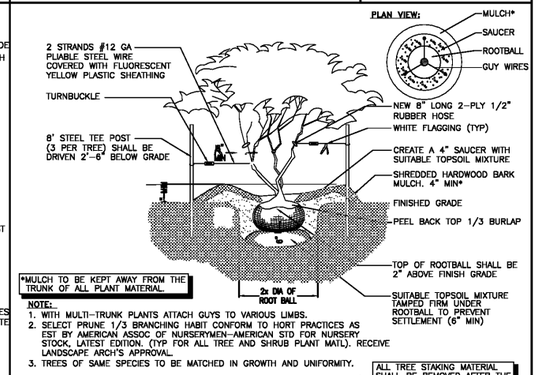
SOD:

- ALL SODDED AREAS SHALL BE TIFWAY BERMUDA 419
- SLOPES 3:1 OR GREATER SHALL BE PEGGED TO HOLD SOD IN PLACE.
- ALL AREAS TO BE SODDED SHALL RECEIVE A MINIMUM 6" LAYER OF SUITABLE TOPSOIL THAT MEETS THE CONDITIONS LISTED BELOW AND THAT HAS BEEN TILLED FINE GRADED AND HAS HAD ALL STONES, ROOTS, DEBRIS, ETC REMOVED
- SUITABLE TOPSOIL SHALL MEET THE FOLLOWING REQUIREMENTS:
  - IT SHALL ALL BE A RICH EASILY FRIABLE BROWN OR BLACK LOAMY TO SANDY LOAM SOIL
  - SOIL PH OF 5.5 – 7.0
  - 5% ORGANIC MATERIAL WITH A PH RANGE OF 5.5 – 8.0
  - FREE OF WEEDS, LITTER, STIFF CLAY, OR STONES GREATER THAN 1" IN DIA.
  - HEAVY CLAYS AND FINE SILTY SOILS ARE NOT ACCEPTABLE
- SOD SHALL BE LAID AS SOON AS IT IS DELIVERED TO PLANTING AREAS. ONLY HEALTHY MOIST GREEN SOD SHALL BE LAID. ANY SOD WHICH IS BROWN AND UNDER STRESS IS UNACCEPTABLE. ANY SOD WHICH IS NOT LAID WITHIN 24 HOURS OF DELIVERY SHALL BE UNACCEPTABLE.
- SOD SHALL BE A MINIMUM OF 3/4" THICK, FREE OF WEEDS AND PESTS, AND CUT NO MORE THAN 24 HOURS PRIOR TO PLANTING.
- SOD PANELS SHALL BE LAID TIGHTLY TOGETHER AND END JOINTS STAGGERED SO AS TO MAKE A SOLID SODDED AREA.
- ANY JOINTS OR SEAMS THAT MAY EXIST AFTER LAYING SOD SHALL BE FILLED WITH SAND SO AS TO CREATE A SMOOTH AND UNIFORM GROWING SURFACE.
- SOD SHALL BE ROLLED AND WATERED AT THE TIME OF INSTALLATION TO ENSURE GOOD SOD–SOIL CONTACT AND TO PROVIDE A SMOOTH, UNIFORM WALKING SURFACE..

SEEDING & SODDING NOTES



NTS EVERGREEN TREE STAKING



MULTI–TRUNKED TREE PLANTING

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PROJECT: BASEBALL FACILITIES AT BROOK RUN PARK

DESIGNED	DRAWN	CHECKED	DATE
XXX	XXX	XXX	

PROJECT NO. C-1610-10
SCALE: AS SHOWN
DRAWING TITLE: LANDSCAPE DETAILS

DRAWING NO. LA-2.01
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