

LANDSCAPE GENERAL NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER PERTINENT NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE PRIOR TO THE START OF WORK. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS, EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT. STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE CONSTRUCTION BY DRIVING OR PARKING INSIDE THE DRIVE-LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER SOLUBLE MATERIALS WITHIN THE DRIVE-LINE.

2. NO MATERIALS SHALL BE BURIED WHERE THE HEAT WILL DAMAGE ANY PLANT TREES KILLED OR DAMAGED SO THAT THEY ARE MISAPPEAR AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS PER SQUARE FOOT FOR EACH SQUARE FOOT OF PLANTING AREA. AN ADDITIONAL TWENTY PERCENT (20%) PER INCH OVER FOUR INCHES (4") CALIPER AS MEASURED AND MARKED/IDENTIFIED DAMAGED, OR AS MAY BE REQUIRED BY THE REGULATORY GOVERNMENT AGENCY. WHENEVER CUTTING OR REMOVAL SHALL BE PERFORMED AT BREAST HEIGHT OR FOUR FEET (4') ABOVE SURROUNDING GROUND.

D. MATERIALS

1. SUBMITTALS: GENERAL SAMPLES OF PLANTING MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR OTHERWISE DETERMINED BY THE OWNER UPON APPROVAL OF SAMPLES. DELIVERY OF MATERIALS MAY BECOME MATERIALS SAMPLE SUBMITTALS

MULCH ONE (1) CUBIC FOOT TOPSOIL ONE (1) CUBIC FOOT PLANTS ONE (1) REPRESENTATIVE SAMPLE OF EACH VARIETY

2. PLANT MATERIALS: GENERAL PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 14th EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS FOR NURSERY PLANTS' PARTS AND LATEST EDITION PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GROWN AND SHALL MEET MINIMUM UNLESS OTHERWISE SPECIFIED BY A FLORIDA FANCY DESIGNATION, AS DETERMINED BY THE FLORIDA NURSERY AND PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, WELL-BRANCHED AND FREE OF DISEASE AND INSECTS. INSECT EGGS AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SPECIES. MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OBTAINED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE MARKET. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

3. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE TOP OF HOODLAK TRUNK/FOLIAGE AND/OR ABOVE THE AVERAGE BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

4. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER FOR QUALITY, SIZE, AND VARIETY. SUCH PRELIMINARY APPROVAL SHALL NOT SUPERSEDE THE RIGHT OF INSPECTION AT THE SITE DURING THE PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS. LATENT DEFECTS OR FREQUENT DIEBACKS, AND OTHER DEFECTS THAT MAY HAVE OCCURRED SINCE THE NURSERY INSPECTION. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTS FOR REJECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

5. AMENDED PLANTING SOIL: PLANTING SOIL FOR USE IN BACK FILLING PLANTING HOLES SHALL BE FORTY PERCENT (40%) TOPSOIL AND SIXTY PERCENT (60%) SAND AND BE FERTILE, FRABLE, AND OF A LOAMY OR CLAY LOAM TYPE. FREESIEVE MATERIALS AND SUBSOIL MATERIALS, AND OBTAINED FROM A WELL-DRAINED, AVAILABLE SITE. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME LUMBS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS, OR NOXIOUS WEEDS. IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH PH RANGE SHALL BE 5.0 TO 7.0 INCLUSIVE.

6. SAND SHALL BE CLEAN, WELL DRAINING NATIVE SAND. IF REQUESTED, CONTRACTOR SHALL AT ANY TIME AND AT NO COST TO OWNER SUBMIT RESULTS OF SOIL TESTS FOR TOXICITY AND SAND PROXIMITY FOR USE UNDER THIS CONTRACT FOR APPROVAL BY OWNER.

E. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL, NATURAL, OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARDS SHALL BE OBTAINED ON THE SITE FROM THE OWNER. IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

F. COMMERCIAL FERTILIZER

1. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DELIVERED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS.

- 1. SHRUBS AND TREES --- MILORGANITE, OR APPROVED EQUAL
2. ANNUALS AND GROUNDCOVERS --- OSMOCOTE/ERSERA BLEND 14-14-14
3. SOIL --- 6-8-8

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24-30-8 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE PLACED AT THE RATE AND DEPTH SPECIFIED BY MANUFACTURER.

G. MULCH

- 1. MULCH SHALL BE FROM SHREDED WOOD DERIVED FROM MELALEUCA OR OTHER INVASIVE TREE SPECIES AND SHALL BE STERILIZED TO EFFECTIVELY ELIMINATE ALL SEEDS, SPORES, ETC. AND RENDER THEIR BARREN.
2. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND/SPRACEMENT, AND APPLIED AT A DEPTH OF THREE INCHES (3").
3. MULCH SHALL BE GRADE 8" SHREDED, AND SHALL BE APPLIED TO ALL SMOOTH OR PAVED AREAS.
4. NO RED OR COLORED MULCH SHALL BE ACCEPTED UNLESS SPECIFIED ACCORDINGLY. NO CYPRRESS MULCH SHALL BE USED.

H. DIGGING AND HANDLING

1. PROTECT ROOT SYSTEMS: ROOTBALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER EXPOSURE, AND OTHER HAZARDOUS CONDITIONS. NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY WATERED TO PREVENT DROEGING AND DRYING OUT. TREES AND SHRUBS WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTI-TRANSPIRANT PRODUCT ("WILT-PRO" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

ANTITRANSPIRANT PRODUCT ("WILT-PRO" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS

2. BALLED AND BURLAPPED PLANTS (BB&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS, AND IN ACCORDANCE WITH ORDINANCES AND STANDARDS FOR NURSERY PLANTS' FLORIDA PUBLICATION, NO PLANT WITH A ROOTBALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINERS SHALL NOT BE HANDED BY THE CONTRACTOR.

3. PLANTS MARKED "BY" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT WITHIN THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT. MOVING AND PROTECT PLANTS SHALL BE COMPLETED PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FIBROUS SHALL BE REMOVED FROM THE PALM TRUNK OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS BY GRADER AND STANDARDS FOR NURSERY PLANTS' FLORIDA PUBLICATION. ALL PALMS SUBJECT TO SUCH PRACTICE, LIKEWISE EXCESSIVE PRUNING OR SHAVING OF ROOTBALLS TO MEET "CLEAR TRUNK" CRITERIA MAY CONSTITUTE REJECTION CRITERIA. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL ON THE PLANTING DETAIL SHEET.

5. EXCAVATION OF PLANTING HOLES SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS, AND PREPARED SUB-BASES.

L. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TENDRONS AND BE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, AND SHALL MEET MINIMUM SPECIFICATIONS IN THE PLANT LIST.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE, AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS SHALL NOT BE ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NEED AUTHORIZATION FROM THE OWNER BEFORE.

J. COLLECTED STOCK

1. WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOT BALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

K. NATIVE STOCK

1. PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED GROWN WHEN THEY HAVE BEEN SUCCESSFULLY REESTABLISHED IN A NURSERY ROW AND GROWN UNDER NURSERY CULTURE. ALL PLANTS SHALL MEET MINIMUM SPECIFICATIONS IN THE PLANT LIST. PLANTS SHALL BE COLLECTED FROM ONE (1) THOUSAND (1000) SQUARE FEET APPLICATION SHALL BE UNIFORM. UTILIZES COMMERCIAL BROADCAST SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE INCHES (3"). HAND PAKE UNTIL ALL BUNKERS AND DEPRESSIONS ARE FULLY PREPARED AREA THOROUGHLY TO PREPARE FOR SOIL INSTALLATION.

L. MATERIALS LIST

1. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED. QUANTITIES ESTIMATED HAVE BEEN. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN APPROVAL FROM THE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN A BIDDER'S TAKE OFF AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT'S QUANTITY SHALL BE THE GOVERNING CLARIFICATION PRIOR TO THE SUBMISSION OF BID. DRAWING SHALL TAKE PRECEDENCE. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

M. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS, BEING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE FINISHED GRADE TO THE SPECIFIED FINISHED GRADE FOR THICKNESS OF SOIL AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

N. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTS UNDESIRABLE TO THE OWNER. GEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SITE. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL, CONDITIONS BEHIND THE SOIL WHICH WILL IN ANY WAY AFFECT THAT VIABILITY OF THE PLANTS TO BE INSTALLED HEREIN, IMMEDIATE CALL IT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER OR DESIGNER.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS LINES AND TANKS, WATER, SANITARY SEWER, STORM WATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.

3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPACTED LIMESTOCK AND LIMESTOCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO MINIMIZE DEPTH OF APPROXIMATELY 20% GREATER THAN RECOMMENDED PLANTING SOIL DEPTH. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO FINISHED GRADE WITH CLEAN TOPSOIL FROM ADJACENT SOURCE OR AN IMPORTED SOURCE. IF LIMESTOCK CONDITIONS OCCUR IN PLANTING AREAS AFTER 30" DEEP EXCAVATION BY CONTRACTOR, A POSITIVE DRAINAGE CAN NOT BE ACHIEVED. CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE OR CONTACT OWNER, CONSTRUCTION MANAGER OR DESIGNER FOR REJECTION.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND REPORT DEFECTS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. GENERAL: COMPLY WITH FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS GOVERNING LANDSCAPE PLANTS AND PLANTING. PERMITS SHALL BE OBTAINED FOR ALL UTILITIES. ALL PLANTS SHALL BE PROTECTED FROM DAMAGE BY WATER AND OTHER OPERATIONS. ALL PLANTS SHALL BE PLANTED IN THE MANNER AND POSITION UNLESS OTHERWISE SPECIFIED BY THE CONTRACTOR. PLANTS SHALL BE PLANTED IN THE MANNER AND POSITION UNLESS OTHERWISE SPECIFIED BY THE CONTRACTOR. PLANTS SHALL BE PLANTED IN THE MANNER AND POSITION UNLESS OTHERWISE SPECIFIED BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PREVENT CONFLICTS DURING THE PLANTING WORK. IRRIGATION WORK TO ASSURE ADEQUATE WATER SUPPLY TO PLANTS.

7. PLANTING HOLES SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE US STANDARDS FOR NURSERY STOCK SHALL, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE TREE MATERIALS SECTION. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL FLOW STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROTECT "JETTING" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STOCK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS, CURBS, PAVING, AND OTHER HARDSCAPE MATERIALS WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION D (MATERIALS) OF THESE SPECIFICATIONS. IN ADDITION, EACH PLANTING HOLE SHALL RECEIVE 21-GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS AND FOLLOWINGS

- TWO (2) TABLETS PER 1 GAL. PLANT
--- THREE (3) TABLETS PER 3 GAL. PLANT
--- FOUR (4) TABLETS PER 10 GAL. PLANT
--- TWO (2) TABLETS PER HALF INCH (1/2") OF TRUNK CALIPER

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT, AFTER SETTLEMENT, THE TOP OF THE ROOT SYSTEM FOR SHRUBS AND GROUNDCOVERS OR TRUNK FLARE (TREES AND PALMS) WILL STAND ONE (1) TO TWO (2) INCHES ABOVE THE FINISHED GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PLANTING HOLE.

11. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW IT TO SOAK MINIMUM TWENTY (20) MINUTES. TURNING SOIL TO BE SUFFICIENT TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET OR OTHER TAMPING DEVICE. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ONLY WITH MULCH. ALL BURLAP, ROPE, WIRE, ETC. SHALL BE PULLED FROM UNDERNEATH.

12. PRUNING FOR DAMAGED OR BROKEN LIMBS: EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE SPECIES. ALL SICKER GROWTH SHALL BE COMPLETELY REMOVED PRIOR TO PLANTING.

13. SHRUBS AND GROUNDCOVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED IN THE PLANT LIST. CULTIVATE ALL MASS PLANTING AREAS TO A MINIMUM DEPTH OF 6". REMOVE AND DISPOSED ALL DEBRIS, TILL OF PLANTING SOIL. MIX WITH MULCH. ALL BURLAP, ROPE, WIRE, ETC. SHALL BE PULLED FROM UNDERNEATH.

14. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANTS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. THESE SHALL BE SPECIFIED AS PER DETAIL SHEET. PALMS SHALL USE WOOD BRACERS PER DETAIL SHEET.

15. MULCHING: PROVIDE A THREE INCH (3") MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUNDCOVER AND VINE BED AND TREE PIT FOR TREES AND PALMS. MIN THREE INCH (3") FROM EDGE OF TRUNKS, - UNLESS OTHERWISE SPECIFIED BY LOCAL CODES AND SPECIFIED AS SUCH.

16. SYSTEMIC HERBICIDE: WEED CONTROL. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER OR THEIR DESIGNER, A SYSTEMIC HERBICIDE SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN READY APPLICATION PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. AFTER MULCH HAS BEEN APPLIED TO PLANTING BEDS AND TREE BEDS, TREAT ALL MULCHED AREAS WITH AN APPROVED, PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.

O. LAWN SODDING

1. LAWN SODDING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANTS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. THESE SHALL BE SPECIFIED AS PER DETAIL SHEET. PALMS SHALL USE WOOD BRACERS PER DETAIL SHEET.

2. LAWN PREPARATION: PROVIDE A THREE INCH (3") MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUNDCOVER AND VINE BED AND TREE PIT FOR TREES AND PALMS. MIN THREE INCH (3") FROM EDGE OF TRUNKS, - UNLESS OTHERWISE SPECIFIED BY LOCAL CODES AND SPECIFIED AS SUCH.

3. SOIL PREPARATION: PREPARE LAWN BED FOUR INCHES (4") DEEP. APPLY A FOUR INCH (4") MULCH STRIP SHALL BE PROVIDED FOR EACH ROW OF SOD. CUSTOMER'S SPECIFICATIONS SHALL BE UNIFORM. UTILIZES COMMERCIAL BROADCAST SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE INCHES (3"). HAND PAKE UNTIL ALL BUNKERS AND DEPRESSIONS ARE FULLY PREPARED AREA THOROUGHLY TO PREPARE FOR SOIL INSTALLATION.

4. SODDING: THE CONTRACTOR SHALL SOD ALL PERVIOUS AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS TO CREATE A UNIFORM, WELL TURF LAWN FOR THE SITE.

5. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS FOR SOD. SOD SHALL BE Laid IN ROWS WITH EVERY OTHER ROW STAGGERED 1/2" AWAY BETWEEN THE JOINTS TO INSURE JOINTS ARE TIGHT. JOINTS SHALL BE TIGHT TO INSURE A TIGHT FIT AT JOINTS.

6. SOD SHALL BE Laid UNIFORMLY AGAINST THE EDGES OF CURBS AND HARDSCAPE ELEMENTS. PAVED AND PLANTED AREAS, INCLUDING BUILDING FOUNDATIONS, SHALL BE PROTECTED BY MULCH STRIPS. MULCH STRIPS SHALL BE Laid UNIFORMLY AGAINST THE EDGES OF CURBS AND HARDSCAPE ELEMENTS. PAVED AND PLANTED AREAS, INCLUDING BUILDING FOUNDATIONS, SHALL BE PROTECTED BY MULCH STRIPS. MULCH STRIPS SHALL BE Laid UNIFORMLY AGAINST THE EDGES OF CURBS AND HARDSCAPE ELEMENTS. PAVED AND PLANTED AREAS, INCLUDING BUILDING FOUNDATIONS, SHALL BE PROTECTED BY MULCH STRIPS.

7. DURING DELIVERY PRIOR TO BRING THE SOD TO THE LAWN AREAS, THE SOD PACKER SHALL BE COVERED WITH A BURLAP SAWN COVERED WITH BURLAP AND UNNECESSARY EXPOSURE OF THE SOD SHALL BE AVOIDED. SOD SHALL BE INSTALLED DURING THE DAY OF ITS ARRIVAL TO THE SITE.

8. LAWN CARE: THE CONTRACTOR SHALL PROVIDE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND MAINTENANCE OF THE LAWN UNTIL THE LAWN IS FULLY ESTABLISHED AND PRODUCE MORE THAN ONE (1) INCH OF GROWTH PER MONTH.

9. WATER: THE LAWN FOR FOURTEEN (14) SUCCESSIVE DAYS. THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) UNTIL FULLY ESTABLISHED OR UNTIL AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL AND PROGRAMMED. ADDITIONALLY, COORDINATE WATERING SCHEDULE WITH NATURAL RAINFALL. RAINFALL EVENTS IN EXCESS OF TWENTY (20) MINUTES OR MORE THAT PRODUCE MORE THAN A HALF INCH (1/2") OF PRECIPITATION WILL NEGATE THE NEED FOR WATERING. THE FOLLOWING DAY IF PREVIOUSLY SCHEDULED, ALL WATERINGS SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO A DEPTH OF FOUR INCHES (4").

P. CLEANUP

1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

Q. PLANT MATERIAL MAINTENANCE

1. ALL PLANTS AND PLANTING MATERIALS INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING OUT SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNER. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF NINETY (90) CALENDAR DAYS COMMENCING AFTER ACCEPTANCE (SEE NEXT SECTION).

R. MAINTENANCE (ALTERNATE BID ITEM)

1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR LANDSCAPE AND IRRIGATION MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

S. GUARANTEE

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) YEAR FROM OWNER COMMENTS AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNER.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL SOIL INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF NINETY (90) CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNERS OR OWNERS DESIGNER.

3. REPLACEMENT: ANY PLANT NOT IN A HEALTHY, THRIVING GROWING CONDITION SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. SHOULD THE OWNER ELECT, TREES AND PALMS MAY BE GIVEN A PERIOD OF NINETY (90) DAYS BEFORE REMOVAL TO ALLOW THE CONTRACTOR TO RESURRECT THE TREE OR PALM IN QUESTION AND BRING IT TO A THRIVING, HEALTHY CONDITION. ALL REPLACEMENTS SHALL BE PLANTS OF LIKE KIND, CONDITION AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED, MULCHED AS SPECIFIED WITHIN THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER. ANY REPAIRS FROM THIS REPLACEMENT MATERIAL SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT MATERIAL SHALL BE QUANTIFIED TO ONE (1) YEAR PERIOD FROM THE DAY OF REPLACEMENT ACCEPTANCE BY THE OWNER. SHOULD REPLACEMENT MATERIAL FAIL WITHIN THE GUARANTEE PERIOD, THE OWNER MAY OPT FOR A CREDIT OF THE MONETARY AMOUNT FOR THE REPLACEMENT MATERIALS AT A RATE OF THE ORIGINAL CONTRACT BID RATE, IN LIEU OF AN ADDITIONAL REPLACEMENT.

4. IN THE EVENT THE OWNER ELECTS NOT TO CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER OR THEIR DESIGNEE, AND SHALL NOTIFY THE OWNER IN WRITING OF ANY INTERFERENCE WITH THE MAINTENANCE PROCEDURES. THE CONTRACTOR SHALL HEALTHY PLANT GROWTH OF TREES UNDER REPLACEMENT WARRANTY. IT IS SUGGESTED SUCH VISITS BE AT LEAST TWICE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

1. FINAL INSPECTION BY OWNER OR THEIR DESIGNEE AT THE END OF THE GUARANTEE PERIOD SHALL INCLUDE PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY PLANTS NOT MEETING THE CRITERIA OF HEALTHY, VIGOROUS, AND THRIVING AT THIS TIME AND THAT HAVE NOT ALREADY BEEN REPLACED PREVIOUSLY UNDER SAID WARRANTY, SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE (OR AS SPECIFIED BY THE OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. GRADING & DRAINAGE NOTES

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY THE RESPECTIVE UTILITY COMPANIES IN FLORIDA, CALL FLORIDA SUBURSE AT 811.

2. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.

3. PITCH EVENLY BETWEEN SPOT GRADERS. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO PROCEEDING WITH THE WORK.

4. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW WHERE EXISTING VEGETATION IS TO REMAIN. MEET EXISTING GRADES, DO NOT FILL ABOVE BASAL GRADE OF EXISTING TREES.

V. UTILITY PLAN NOTES

1. CONTRACTOR SHALL INSTALL SCHEDULE 40 PVC CONDUIT (5 FEET MINIMUM) FOR ALL IRRIGATION PIPING UNDER ALL PAVED AREAS TO CONNECT LANDSCAPE AREAS.

W. SITE PREPARATION

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET THE OWNER AND IDENTIFY TREES AND SHRUBS WHICH ARE IDENTIFIED AS SUCH AS THOSE WHICH ARE TO BE REMOVED OR TO BE CLEAR CUT. A CLEAR CUTTING PLAN OF EXISTING TREES AND SHRUBS TO BE REMOVED.

2. TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED BY THE INSTALLATION OF PROTECTIVE BARRIERS AS SPECIFIED BY THE OWNER (SEE LANDSCAPE ARCHITECT'S PROTECTIVE BARRIERS DETAIL). BARRIERS SHALL BE INSTALLED PRIOR TO CONSTRUCTION. FENCING SHALL BE SUFFICIENT TO PREVENT CONSTRUCTION EQUIPMENT FROM CONTACTING SOIL AT THE ROOT ZONE AND DAMAGE TRUNKS AND BARK.

3. IF IN ORDER TO PERFORM EXCAVATION WORK, IT SHOULD BECOME NECESSARY TO CUT ROOTS OF PLANTS TO BE SAVED, SUCH ROOTS SHOULD BE CUT NEARLY WITH THE USE OF A SHARP SAW COVERED WITH BURLAP AND KEPT MOIST UNTIL ROOTS CAN BE BACK FILLED TEARS CUT, JOGGED CUTS TO ROOTS ARE.

4. TREES AND SHRUB REMOVAL SHALL INCLUDE THE FILLING, CUTTING, GRUBBING OUT ENTIRE ROOT SYSTEMS AND SATISFACTORY OFF-SITE DISPOSAL OF ALL TREES. EXCESSIVE MULCH, BRUSH AND EXCESSIVE DEBRIS PRODUCED BY THE REMOVAL OPERATIONS.

5. ALL REFUSE, DEBRIS, UNSUITABLE MATERIALS AND MISCELLANEOUS MATERIALS TO BE REMOVED SHALL BE LEGALLY DISPOSED OFF-SITE BY CONTRACTOR.

7. ALL INVASIVE EXOTIC VEGETATION SHALL BE DISPOSED OF OR TREATED AS PER LOCAL OR REGIONAL GOVERNING AUTHORITIES, REQUIREMENTS OR RECOMMENDATIONS.

X. ROOT CONTROL BARRIER

1. ROOT CONTROL PRODUCT SHALL BE A BIOLOGICAL BARRIER PRODUCT. PRODUCT SHALL BE 10"-BARRIER ROOT CONTROL SYSTEM, AS MANUFACTURED BY BEA FIBER/BERREMAN, INC. AND DISTRIBUTED BY HORT ENTERPRISES, INC. P.O. BOX 2449, FORTMYER BEACH, FL 32081 -800-966-4878

2. PRODUCT SHALL BE A BIOLOGICAL BARRIER UTILIZING LIME-RELEASE CAPSULES INTEGRATED INTO A GEOTEXTILE FABRIC. ACTIVE HERBICIDE SHALL BE TRIFLURALIN, AND MINIMUM TIME RELEASE OF EFFECTIVE PRODUCT SHALL BE 3-5 YEARS IN THE MOST ADVERSE CONDITIONS FOR SUCH A PRODUCT.

3. PRODUCT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR ROOT CONTROL SYSTEMS.

4. USE PRODUCT WHERE TREES ARE WITHIN EIGHT FEET (8') OR LESS OF HARDSCAPE SURFACES INCLUDING CURBS, SIDEWALKS, STEPS, AND ROADWAYS.

5. SPECIFY 1 1/2" WIDTH OPTION.

6. WHERE CONDITIONS REQUIRE PRODUCT AS SET FORTH IN NO. 4 ABOVE, USE PRODUCT AT LEAST TEN FEET (10') IN EITHER DIRECTION FROM THE CENTER OF TRUNK ALONG LINEAR FEATURES SUCH AS WALKWAYS, ETC. THE INTENT OF THIS SPECIFICATION IS TO PROVIDE A ROOT CONTROL SYSTEM WHERE ROOTS ARE MOST LIKELY CAUSE PHYSICAL DAMAGE TO ADJACENT HARDSCAPE SURFACES, FOUNDATIONS, OR OTHER ELEMENTS THAT MAY RECEIVE DAMAGE FROM ROOT SYSTEMS OF TREES.

7. SEE WWW.BEABARRIER.COM FOR ADDITIONAL INFORMATION AND PRODUCT SPECIFICATION.

Y. IRRIGATION

1. CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN AND BED AREAS. DESIGN TO BE SUBMITTED TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR TO VERIFY FINAL DESIGN PRIOR TO DESIGN. CONTRACTOR IS RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET PRESSURE REQUIREMENTS. SYSTEM DESIGN TO SHOW ALL VALVES, SPRING, HEADS, BACKFLOW PREVENTION, METERS, AND CONTROLLERS. ALL SIZES IN PAVED AREAS MUST BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND INSTALLATION. CONTRACTOR SHALL NOT INSTALL IRRIGATION IN RIGHT-OF-WAY UNLESS REQUIRED BY CITY. METRIC DRIP IRRIGATION TO BE INSTALLED IMMEDIATELY AROUND BUILDING TO PREVENT WATER SPRAYS ON BUILDINGS, WALLS, AND WINDOWS. METRIC PIPING TO BE BURIED JUST BENEATH SOIL SURFACE AND COVERED INSTALLED BY AN OWNER APPROVED CONTRACTOR.

2. DESIGNED SYSTEM SHALL CONSIST OF AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE WITH 50% OVERLAP, AND CONTAINING A RAIN SENSOR INSTALLED BY AN OWNER APPROVED CONTRACTOR. THIS SYSTEM SHALL BE INSTALLED AND OPERATIONAL WITHIN TEN (10) DAYS OF THE INITIAL LANDSCAPE INSTALLATION.

THOMAS LANDSCAPE ARCH