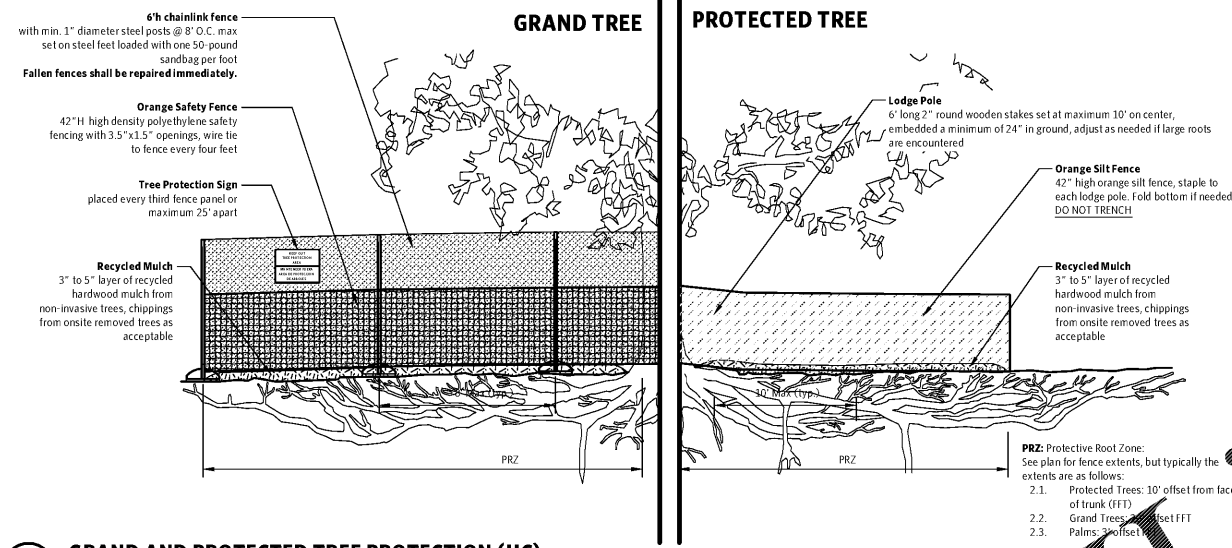


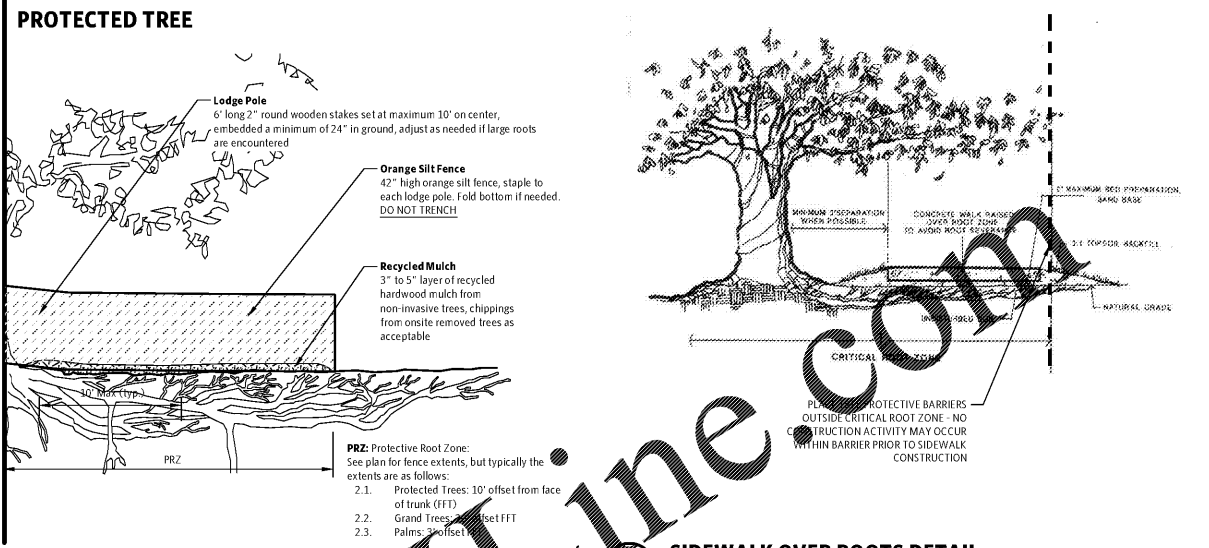
TREE PROTECTION NOTES

- ROOT PROTECTION:** INSTALLATION OF ARTIFICIAL BARRIERS SUCH AS PROTECTIVE BARRICADES, FENCES, POSTS OR WALLS SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROJECTED TREES AND GRAND TREES. FOOTERS FOR WALLS SHALL END AT THE POINT WHERE LARGER ROOTS ARE ENCOUNTERED, AND THE ROOTS SHALL BE BRIDGED. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES OR GRAND TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
- MULCHING:** DURING THE SITE CLEARING PHASE, A LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF TREE TO REMAIN. THICKNESS SHALL BE AS FOLLOWS:
 - PROTECTED TREES: TWO INCH THICKNESS, ZERO INCH THICKNESS AT TRUNK
 - GRAND TREES: FIVE INCH THICKNESS, ZERO INCH THICKNESS AT TRUNK
- DRY WELL:** A PROTECTIVE DRY WELL AND DRAINAGE/AERATION SYSTEM SHALL BE PROVIDED WHERE PROTECTED TREES OR GRAND TREES WILL BE ADVERSELY AFFECTED BY RAISING THE GRADE.
- RETAINING WALL:** A PROTECTIVE RETAINING WALL SHALL BE CONSTRUCTED AT THE PERIMETER OF THE PROTECTIVE RADIUS AROUND A PROTECTED TREE OR GRAND TREE WHERE THE PROTECTED TREE OR GRAND TREE WILL BE ADVERSELY AFFECTED BY LOWERING THE GRADE.
- SIDEWALKS:** ALL SIDEWALKS WITHIN THE DRIPLINE OF EXISTING TREES OR WITHIN ANY NATURAL PRESERVATION OR TREE PROTECTION AREA SHALL BE INSTALLED AT OR ABOVE EXISTING GRADE ACCORDING TO SIDEWALKS OVER TREE ROOTS DETAIL.
- TREE PROTECTION BARRICADES:** ALL TREES TO REMAIN MUST BE PROTECTED BY TREE PROTECTION BARRICADES MEETING THE MINIMUM STANDARDS SHOWN ON THE PROTECTIVE TREE BARRICADE DIAGRAM. PROTECTIVE BARRICADES SHALL REMAIN IN PLACE UNTIL LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED.
- UNLAWFUL ACTIVITIES:** DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, WITHIN THE DRIPLINE OF A TREE REMAINING ON SITE, UNLESS OTHERWISE APPROVED BY THE ADMINISTRATOR, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION, EXCEPT BY HAND, BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE.
- ROOT PRUNING:** ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA WHERE INDICATED ON THE PLAN. ROOTS SHALL BE SEVERED WITH PRUNING EQUIPMENT EQUIVALENT TO A DOSKO ROOT CUTTER. PRUNING CONTRACTOR MUST CONTACT HILLSBOROUGH COUNTY NATURAL RESOURCES DIVISION AT (813) 276-8399 TO SCHEDULE A ROOT PRUNING INSPECTION, PREFERABLY THE SAME DAY, PRIOR TO BACKFILLING THE AFFECTED ROOTS. IN LIEU OF INSPECTION, AN ISA CERTIFIED ARBORIST MUST SUBMIT A "LETTER OF ROOT PRUNING PLAN COMPLIANCE" TO HILLSBOROUGH COUNTY NATURAL RESOURCES DIVISION. LETTER OF ROOT PRUNING COMPLIANCE MUST INCLUDE PHOTOGRAPHIC EVIDENCE OF CONFORMANCE TO PLAN.
- PRUNING:** ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- MINOR PRUNING:** THE PRUNING OF A TREE BY THE REMOVING OF BRANCHES MEASURING NO GREATER THAN THREE INCHES IN DIAMETER AT THE POINT OF CONNECTION TO A SUPPORTING BRANCH IN ACCORDANCE TO THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- EROSION CONTROL:** PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES

- (I.E., HAY BALES, BAFFLES, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.
- STABILIZATION:** ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
- DROUGHT-TOLERANT TURF:** NO MORE THAN 50% OF THE LANDSCAPED AREA MAY BE PLANTED WITH SHALLOW-ROOTED (I.E., ST. AUGUSTINE) TURF GRASS VARIETIES. THESE TURF GRASS VARIETIES SHALL BE CONSOLIDATED IN AND LIMITED TO AREAS THAT ARE PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEMS.
- ADDITIONAL PROTECTION:** PROTECTED TREES AND VEGETATION SHALL BE DEFINED AS ALL NATURALLY OCCURRING TREES AND SHRUBS NOT SPECIFICALLY DESIGNATED FOR REMOVAL BY CONSTRUCTION ACTIVITIES. SITE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT TO INSPECT ALL BARRICADES AND BARRIERS 48 HOURS PRIOR TO CLEARING AND EARTH MOVING ACTIVITIES. NO ACTIVITY SHALL BE ALLOWED WITHIN AREAS SO MARKED WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. SEE EROSION CONTROL BARRIER DETAIL ON CIVIL PLANS. BARRICADES SHALL ONLY BE REQUIRED IN AREAS DESIGNATED ON THE PLANS, HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NON-DISTURBANCE OF ALL PROTECTED TREES AND VEGETATION. THIS INCLUDES ANY PARKING OF VEHICLES AND STORAGE OF MATERIALS. UNLESS OTHERWISE NOTED, AUTHORIZED CONSTRUCTION ACTIVITIES WITHIN THE DRIPLINE OF PROTECTED TREES SHALL BE PERFORMED IN COMPLIANCE WITH THE "TREE PROTECTION MANUAL FOR BUILDERS AND DEVELOPERS" PREPARED BY THE FLORIDA DIVISION OF FORESTRY.
- VALUATION OF DAMAGE:** THE CONTRACTOR IS HEREBY GIVEN NOTICE THAT ANY DAMAGE OR DEATH OF PROTECTED TREES OR NATURAL VEGETATION CAUSED BY UNAUTHORIZED CONSTRUCTION-RELATED ACTIVITIES WILL REQUIRE RESTORATION/REPLACEMENT ACCEPTABLE TO THE OWNER OR OWNER'S REPRESENTATIVE. COMPENSATION FOR TREES OVER 12" DBH SHALL BE DETERMINED UTILIZING METHODS OF APPRAISAL DEVELOPED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. IN THE EVENT THAT BARRICADES ARE NOT MAINTAINED AND DAMAGE FROM ROOT DISTURBANCE OR CHEMICAL LEACHING ARE NOT IMMEDIATELY APPARENT, THE OWNER RESERVES THE RIGHT TO RETAIN THAT PORTION OF SCHEDULED PAYMENTS TO THE CONTRACTOR EQUIVALENT TO THE ANTICIPATED LOSS OF VALUE IN THE EVENT OF DEATH OR DECLINE FOR A PERIOD OF 12 MONTHS AFTER THE DAMAGING ACTIVITY OCCURS. THE CONTRACTOR MAY ELECT TO BOND SAID VALUE IN LIEU OF RETAINAGE.
- GRAND OAK PRUNING:** PRUNING OF A GRAND OAK, WITH THE EXCEPTION OF MINOR PRUNING, IS PROHIBITED UNLESS CONDUCTED IN ACCORDANCE WITH THE ANSI-A-300 PRUNING STANDARDS, AND PERFORMED OR SUPERVISED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR A REGISTERED CONSULTING ARBORIST WITH THE AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA). CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT TO SCHEDULE AND SUPERVISE PRUNING IN CONJUNCTION WITH TREE PROTECTION BARRICADE INSPECTION. MINOR PRUNING IS THE PRUNING OF A TREE BY THE REMOVAL OF BRANCHES NO GREATER THAN THREE INCHES IN DIAMETER AT THE POINT OF CONNECTION TO A SUPPORTING BRANCH AND SHALL BE IN ACCORDANCE WITH THE ANSI A-300 PRUNING STANDARDS. A NOTARIZED AFFIDAVIT (ATTACHED) AFFIRMING AN ISA CERTIFIED ARBORIST OR AN ASCA REGISTERED CONSULTING ARBORIST WILL CONDUCT OR PROVIDE ONSITE SUPERVISION OF THE PRUNING SHALL BE SUBMITTED TO THE COUNTY PRIOR TO THE PRUNING OF A GRAND OAK. AN ISA CERTIFIED ARBORIST OR AN ASCA REGISTERED CONSULTING ARBORIST CONTRACTED BY A PROPERTY OWNER TO PRUNE A GRAND OAK SHALL ASSUME FULL RESPONSIBILITY FOR ALL PRUNING ACTIVITIES DETERMINED IN NONCOMPLIANCE WITH STANDARDS SPECIFIED WITHIN THE LAND DEVELOPMENT CODE.
- UTILITY APPURTENANCES:** The construction of all above ground utility appurtenances visible from the public right-of-way such as pedestrian utility meters, transformers, back-flow prevention devices, etc. for new development or redevelopment activities shall conform to screening requirements as defined in Section 6.06.02.c.10 of the Land Development Code. If location must be determined, required spatial separations from a fire flow protection application in accordance with the Uniform Fire Code.



1 GRAND AND PROTECTED TREE PROTECTION (HC)
1/4" = 1'-0"



2 SIDEWALK OVER ROOTS DETAIL
1" = 1'-0"

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PROJECT: TAKE 5 SEFFNER
LOCATION: SEFFNER, FLORIDA

PREPARED FOR: BEACON CIVIL ENGINEERING, LLC

ISSUE DATE: 2010-05-15
PHASE: PERMIT NOT FOR BID

SHEET TITLE: TREE PROTECTION DETAILS

REVISION:

SHEET NUMBER:

LA1.1