Appendix E

Development Plan

GENERAL NOTES

LAND USE DEVELOPMENT DATA

PARCEL ID NUMBER: 06655-002-01 PRESENT ZONING: COMMERCIAL (OF)

LAND USE: PROJECT DESCRIPTION

WATER
POTABLE WATER WILL BE PROVIDED BY GAINESVILLE REGIONAL UTILITIES.

SEWER WASTEWATER WILL BE PROVIDED BY GAINESVILLE REGIONAL UTILITIES.

REFUSE COLLECTION
EXISTING ON-SITE DUMPTERS.

ROADWAYS, DRAINAGE, AND COMMON AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED

EASEMENTS ARE DESIGNATED ON THE PLANS.

TREE LOCATIONS ARE NOTED ON THE PLANS

- 1. THE SITE IS NOT IN THE HISTORICAL PRESERVATION DISTRICT.
- 2. THE SITE IS NOT EFFECTED BY WETLAND REGULATIONS.
- 3. THE SITE IS NOT LOCATED IN A NATURAL PARK OR GREENWAY DISTRICT.
- 4. THE SITE IS LOCATED IN A GATEWAY DISTRICT.
- 5. THE SITE IS NOT LOCATED WITHIN THE WELLFIELDS PROTECTION DISTRICT.
- THE SITE IS LOCATED WITHIN THE CENTRAL CORRODORS OVERLAY DISTRICT. ANY EXISTING NON-CONFORMING USES OF THE SITE MAY CONTINUE AS PROMOED IN THE CITY OF CAMESYLLE LOC SECTION 30-23 AND SECTION 30-346. ALL PROPOSED DEVELOPMENT COMPUES WITH THE CENTRAL CORRODORS OVERLAY DISTRICT STANDARDS.
- THE DEVELOPMENT SHALL COMPLY WITH THE FLORIDA FIRE PREVENTION CODE. GAINESVILLE FIRE PROTECTION CODE SECTION 10-5(o) & (b).

PROJECT OWNER AND CONSULTANTS

AGENCY CONTACT LISTING

MANAGEMENT DISTRICT 4049 RED STREET PALATKA, FL 32177

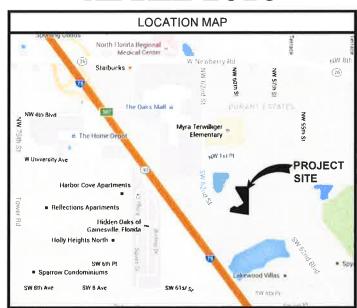
PALM GARDEN OF GAINESVILLE

SITE PLAN FOR **FLORIDA CONVALESCENT** CENTERS, INC.

CITY OF GAINESVILLE, FLORIDA

SECTION 04, TOWNSHIP 10 SOUTH, RANGE 19 EAST

APRIL 2016



A PORTION OF SECTION 4. TOWNSHIP 10 SOUTH, RANGE 19 EAST ALACHUA COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

DRAWING INDEX C001 - COVER SHEET

C002 - GENERAL NOTES

C003 - EXISTING CONDITIONS DRAINAGE MAP C004 - PROPOSED CONDITIONS DRAINAGE MAP

LOCATION

C005 - SITE PLAN

C006 - SITE PLAN

C007 - PAVING GRADING AND DRAINAGE PLAN C008 - PAVING GRADING AND DRAINAGE PLAN

C009 - UTILITY PLAN C010 - DEMOLITION PLAN

C011 - CIVIL DETAILS

C012 - EROSION CONTROL PLAN C013 - EROSION CONTROL NOTES

C014 - EROSION CONTROL DETAILS

TM-100 - OVERALL TREE MITIGATION PLAN

TM-101 - TREE MITIGATION PLAN

TM-150 - TREE MITIGATION NOTES AND DETAILS

LS-200 - OVERALL LANDSCAPE PLAN

LS-201 - LANDSCAPE PLAN LS-250 - LANDSCAPE DETAILS LS-251 - LANDSCAPE NOTES

| Land Use | Intensity | Only Trips | | reak Hou mart Stre | | PAR PROS | Street | discon |
|--|---|----------------------|--------------|-----------------------|---------|---------------------|----------|--------|
| | | | Total | la l | Out | Total | - In | Dut |
| Existing Development | 450 | | 1 | | | 1000 | | |
| Assisted Living Facility | Shorts | 3-4 | | - 6 | - 3 | 34 | - 6 | |
| | Schrottsi | 165 | 183 | * | , | н | | * |
| CHIS | TING NET NEW EXTERNAL TREPS -> | 165 | 12: | 6 | 3 | 14 | 61 | |
| Proposed Development | ## Rests | 265 | - (10) | | | 30 | | п |
| Assisted Living Fac My | Subrotol | 245 | 13 | - | 5 | 20 | 9 | 11 |
| BROPE | ISED NET NEW EXTERNAL TRUPS - | 245 | 13 | 8 | 5 | 20 | 9 | 11 |
| NET INCREASE IN | EXTERNAL TRIPS | 80 | | 2 | 2 | 4 | 1 | ì |
| NET INCREASE IN (PROPOSED MINUS EXISITING) 10. | AT 25% REDUCTION PER TMPA | 80 | | | Ī | | | |
| Assumed Living Factory (TTZ 254) | gade hart fills for Semi-dram, the Edition is existing transit but the 23.2% projects within the | (NAME AND ADDRESS OF | Shi are tron | jurigi k | dy elde | te principiane file | 20% A DN | y in |

| TOTAL IMPERVIOUS AREA | 5.21 AC |
|--|------------|
| TOTAL SEMI-IMPERVIOUS AREA | Q,00 AC |
| DRA-01 | |
| LOWEST DISCHARGE ELEVATION | 62.0 AC |
| RETENTION VOLUME AT LOWEST DISCHARGE ELEVATION | 2.13 AC-FT |
| RETENTION AREA AT LOWEST DISCHARGE ELEVATION | 0.52 AC |

NONE

N/A

SEE ATTACHED LANDSCAPE PLANS

MINIMUM YARD SETBACK

MAXIMUM BUILDING HEIGHT

NUMBER OF BUILDING STORIES

FRONT

SIDE

REAR

| | | PARKING DATA | | |
|-------------------------------|------------|---|-----------------------------------|--|
| REA | 5.21 AC | HOSPITALS, CONVALESCENT | REQUIRED | |
| US AREA | 0,00 AC | AND NURSING HOMES AND PERSONAL CARE FACILITIES | REQUIRED | |
| | | VEHICLE | 1 PER 3 BEDS, OR | |
| E ELEVATION | 82.0 AC | VERICLE | 92/3 = 31 SPACES | |
| AT LOWEST DISCHARGE ELEVATION | 2.13 AC-FT | BICYCLE | 5% OF REQUIRED VEHICLE PARKING OR | |
| AT LOWEST DISCHARGE ELEVATION | 0.52 AC | BILTULE | 31 x 5% = 2 SPACES | |
| | -14- | MOTORCYCLE | 1 SPACE PER 40 VEHICLES OR | |

| | | MOTORCYCLE | 1 SPACE PER 40 VEHICLES OR 1 SPACE | 2 SPACES |
|---------|----------|-------------------------|--|------------|
| _ | | LOT COVERAGE DATA | | |
| ALLOWED | PROVIDED | | EXISTING | PROPOSED |
| | | IMPERMOUS BUILDING AREA | 46,256 SF | 63,549 SF |
| 25 FT | 257± FT | INPERMOUS PAVENENT AREA | 137,850 SF | 163,350 SF |
| 25 FT | 36± FT | PERVIOUS OPEN SPACE | 121,876 SF | 72,892 SF |
| | | | | |

33± FT

28± FT

| /5 | PALM GARDEN OF GAINESVILLE | FLORIDA CONVALESCENT CENTERS, INC. |
|-----|-----------------------------|------------------------------------|
| 90) | P 2 | FLO |

120 SPACES / 5 ACCESSIBLE

Kimley » Horn

| OT COVERAGE DATA | | |
|--------------------------|----------------|----------------|
| | EXISTING | PROPOSED |
| IMPERMOUS BUILDING AREA | 46,268 SF | 63,549 SF |
| INPERVIOUS PAVEMENT AREA | 137,850 SF | 163,350 SF |
| PERVIOUS OPEN SPACE | 121,876 SF | 72,892 SF |
| TOTAL PROJECT AREA | 7.02 AC (100%) | 7.02 AC (100%) |

SHEET NUMBER C001

SHEET

COVER

DB-16-37 SPA Paim Garden of Gainesville 227 SW 62nd Blydi



GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL RELATIVE CITY OF GAINESVILLE LAND DEVELOPMENT CODES STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST FDOT EDITION), AND FDEP REGULATIONS, EXCEPT AS MODIFIED HEREIN.
- 2, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE WORK,
- 3. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION OF THE SITE PRIOR TO THE BEGINNING OF THE WORK. CONTRACTOR SHALL INFORM THE OWNER, ENGINEER OF RECORD, UTILITY AUTHORITY AND INTERESTED COUNTY AGENCIES AT LEAST 48 HOURS PRIOR TO THE SCHEDULED INSPECTION.
- 4. THE LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE FROM THE SURVEY PROVIDED BY EDA ENGINEERS-SURVEYORS-PLANNERS, INC. ON NOVEMBER 02, 2015. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM, IN THE FIELD, THE LOCATION AND ELEVATION OF ALL UTILITIES PRICE TO THE COMMENCEMENT OF CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD PRIOR TO CONTRIUDING CONSTRUCTION.
- 5. CONTRACTOR SHALL LOCATE, VERIFY AND IDENTIFY ALL EXISTING UNDERGROUND UTILITIES SHOWN, OR NOT SHOWN, ON THE PLANS PRIOR TO ANY EXCAVATING ACTIVITIES,
- 6. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEWLY CONSTRUCTED UTILITIES DURING THE CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE UTILITY COMPANY, ENGINEER OF RECORD, AND THE RESPONSIBLE CITY OF GAINESVILLE DEPORTS CENTATIVE.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY HIS OPERATIONS.
- 8. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH OTHER WORK WHICH MAY BE ONGOING ADJACENT TO, OR AFFECTING, THIS CONSTRUCTION.
 CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS AND ALL AFFECTED UTILITY COMPANIES.
- CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES AND THE ENGINEER OF RECORD 48 HOURS PRIOR TO THE INITIATING OF ANY EXCAVATION ACTIVITIES, OR AS SPECIFIED BY THE UTILITY COMPANY AND ANY PERMITS REQUIRED FOR THE WORK.
- 10. CONTRACTOR SHALL PROTECT EXISTING UTILITIES, SURVEY MARKERS, MONUMENTS, ETC. DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE/REPLACE ANY DAMAGE DURING CONSTRUCTION ACTIVITIES.
- 11, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL/DISPOSAL OF ANY UNSUITABLE MATERIAL FROM THE CONSTRUCTION OPERATION, FURNISHING AND COMPACTING SUITABLE REPLACEMENT BACKFILL MATERIAL DISPOSAL OF UNSUITABLE MATERIAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE
- 12. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE EROSION AND TURBIDITY CONTROLS IN ACCORDANCE WITH FDEP DURING AND FOLLOWING CONSTRUCTION, UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED TO AVOID ADVERSE ENVIRONMENTAL IMPACTS TO OFF-SITE PROPERTY AND DRAINAGE SYSTEMS.
- 13. CONSTRUCTION WARNING SIGNS SHALL BE MOUNTED AND ERECTED BEFORE CONSTRUCTION CAN COMMENCE. THESE, AND ALL TRAFFIC CONTROL DEVICES, SHALL FOLLOW THE STANDARDS SET FORTH BY THE MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEX.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING THE AREA OF CONSTRUCTION AND SAFELY ROUTING ALL VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARLY MARKED AT ALL TIMES.
- 15. CONTRACTOR SHALL SEED AND MULCH (OR SOD AS APPLICABLE) ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT ACCORDING TO LOCAL REGULATIONS.
- 16. CONTRACTOR SHALL MAINTAIN "AS-BUILT" RECORD DRAWINGS INFORMATION ON A REGULAR BASIS. CONTRACTOR SHALL EMPLOY THE SERVICES OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO DETERMINE ALL "AS-BUILT" INFORMATION. WITHIN 14 DAYS OF THE COMPLETION OF THE WORK, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPIES AND THE DIGITAL CAD FILE OF THE "AS-BUILT" DRAWINGS AND SUPPORTING SURVEY RECORDS TO THE ENGINEER OF RECORD, CAD FILES SHALL BE IN THE AUTOCAD FORMAT.
- 17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRODUCE, SUBMIT, AND OBTAIN APPROVAL OF THE REPRODUCIBLE AS-BUILT DRAWINGS FOR ANY JURISDICTIONAL AGENCIES AS MAY BE REQUIRED.
- 18. CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD A MINIMUM OF 48 HOURS NOTICE OF ALL MEETINGS OR TESTING MEASURES REQUIRED TO BE WITNESSED BY THE CONSTRUCTION ACTIVITIES RELATED TO THE WORK.
- 19. CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD A MINIMUM OF THREE (3) BUSINESS DAYS NOTICE FOR ANY FINAL INSPECTION.

GENERAL UTILITY NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF GAINESVILLE LAND DEVELOPMENT CODE, DETAILS AND SPECIFICATIONS, AS WELL AS ALL APPLICABLE STATE AND LOCAL REGULATIONS, EXCEPT AS MODIFIED HEREIN,
- , VERTICAL LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN AND PROFILE SHEETS HAVE BEEN ASSUMED, CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION NEAR EXISTING UTILITIES SHOWN ON THE PLANS AND NOTEY THE ENGINEER IF THE LOCATION DIFFERS FROM THAT SHOWN BEFORE CONTINUING WITH THE CONSTRUCTION.
- UNSUITABLE MATERIALS UNDER PROPOSED PIPING SHALL BE REMOVED AND REPLACED WITH SELECT BACKFILL, PROPERLY COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180.
- FITTINGS SHALL BE USED AT LOCATIONS INDICATED ON THE PLANS, UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD,
- 5. THE LENGTH OF TRENCH OPEN AT ANY ONE TIME SHALL BE CONTROLLED BY THE PARTICULAR SURROUNDING CONDITIONS, BUT SHALL BE LIMITED TO 300 LINEAR FEET UNLESS APPROVED BY THE CITY OF GAINESVILLE UTILITY ENGINEER IN METRICIAL
- NO CONNECTIONS TO EXISTING POTABLE WATER SYSTEMS SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, CLEARED FOR SERVICE AND ACCEPTED BY THE UTILITY COMPANY AND FOEP.
- 7. THE BACTERIOLOGICAL SAMPLE POINTS SHALL BE INDICATED IN RED ON THE "AS BUILT" DRAWINGS PRIOR TO THE REQUEST FOR A LETTER OF RELEASE TO PLACE THE CONSTRUCTION INTO SERVICE. THE SAMPLE NUMBERS MILL CORRESPOND TO THOSE ON THE BACTERIOLOGICAL SAMPLE LAB SHEETS.

WATER / SEWER SEPARATION:

- 1. SANITARY SEWERS (INCLUDING LATERALS), FORCE MAINS, AND STORM SEWERS SHALL CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE MALEIGAGE POSSIBLE.
- 2. WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES OF VERTICAL DISTANCE, THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING, SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. AN ABSOLUTE MINIMUM OF VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
- A FULL, UNCUT LENGTH OF WATER MAIN PIPE, AT LEAST 20 FEET IN LENGTH, SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER PIPING, REGARDLESS OF THE VERTICAL SEPARATION.
- 4. IF A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES OF VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE NEW PIPE SHALL BE CONSTRUCTED TO MEET THE CROSSING REQUIREMENTS ABOVE.
- 5. PURSUANT TO F.A.C. 62-555.314, WATER MAINS SHALL BE LOCATED AT LEAST . PURSUANT TO F.A.C. 82-555.314. WATER MAINS SHALL BE LOCATED AT LEAST 6 FEET (PREFERABLY 10 FEET) HORIZONTALLY FROM PIPES CARRYING RAW WASTEWATER, AND 3 FEET HORIZONTALLY FROM PIPES CARRYING RECLAIMED WATER, UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE PLANS. THE DISTANCE SHALL BE MEASURED FROM INSIDE DOE OF PIPE TO INSIDE EDGE OF PIPE. WATER MAINS SHALL BE LAID TO PROVIDE A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE BOTTOM OF WATER MAIN AND THE TOP OF SEWER OR RECLAIMED WATER PIPE. WATER MAINS SHALL CROSS ABOVE SEWER OR RECLAIMED WATER PIPE WITH A VERTICAL SEPARATION OF AT LEAST 18 INCHES.

WASTEWATER COLLECTION SYSTEMS

1. MATERIALS AND INSTALLATION FOR WASTEWATER COLLECTION SYSTEM INCLUDING GRAVITY SEWERS, MANHOLES, SERVICE LATERALS, FORCEMAINS, LIFT STATIONS, AND PRESSURE TESTING REQUIREMENTS SHALL CONFORM TO SECTIONS 7.2 AND 7.3 OF THE CITY OF GAINESVILLE LAND DEVELOPMENT CODE AND ALL APPLICABLE FDEP REGULATIONS. ALL PVC GRAVITY SEWER PIPE SHALL BE SDR-26.

MATERIALS AND INSTALLATION FOR WATER DISTRIBUTION SYSTEM INCLUDING PIPE FITTINGS, VALVES, JOINT RESTRAINTS, FIRE HYDRAINTS, SERVICE LINES, PRESSURE TESTING, AND DISINFECTION SHALL COMFORM TO SECTIONS 7.2 AND 7.3 OF THE CITY OF GAINESYLLE LAND DEVELOPMENT CODE AND ALL APPLICABLE FDEP REGULATIONS. ALL PVC WATER PIPE SHALL BE DR-18.





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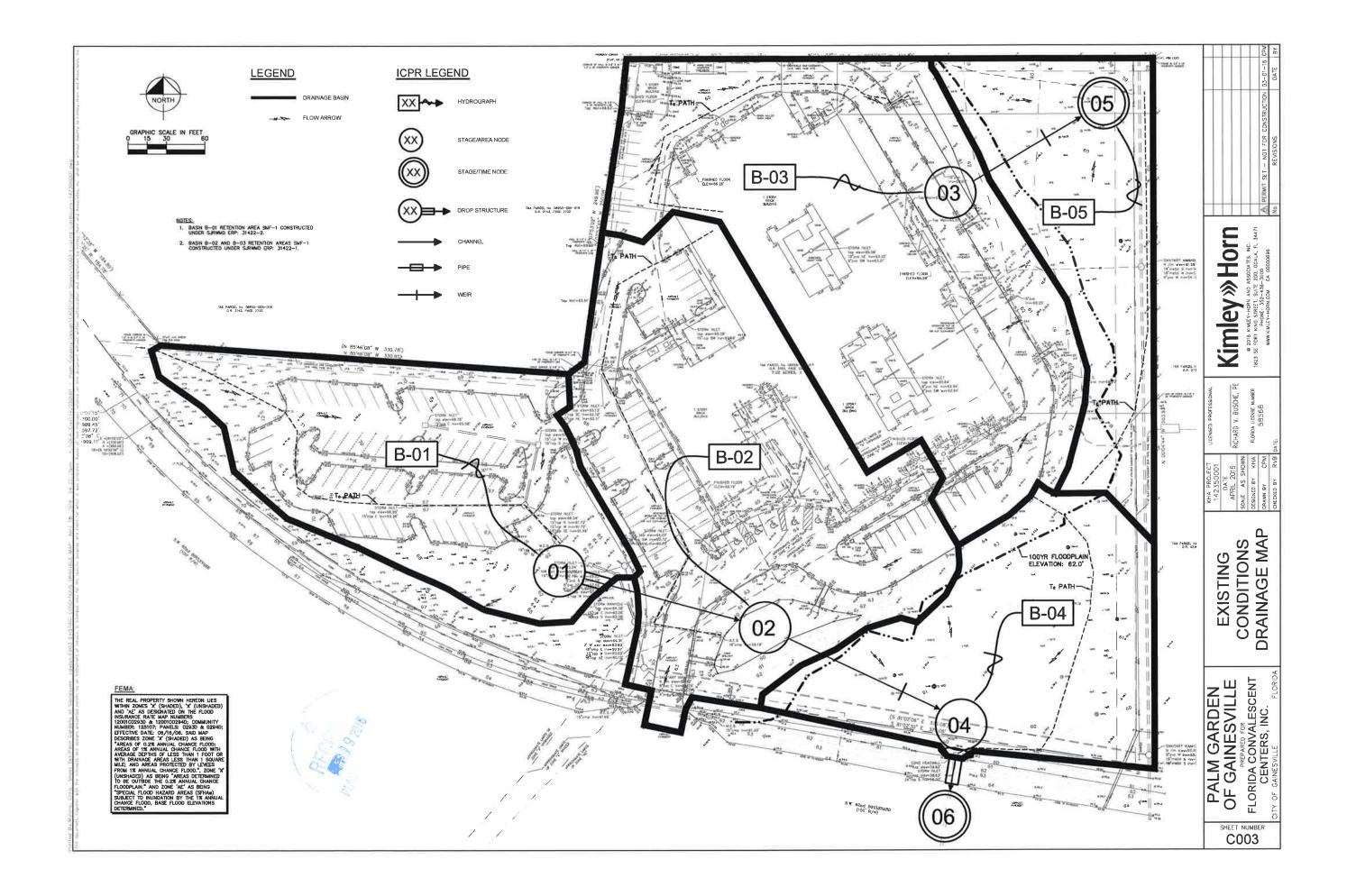
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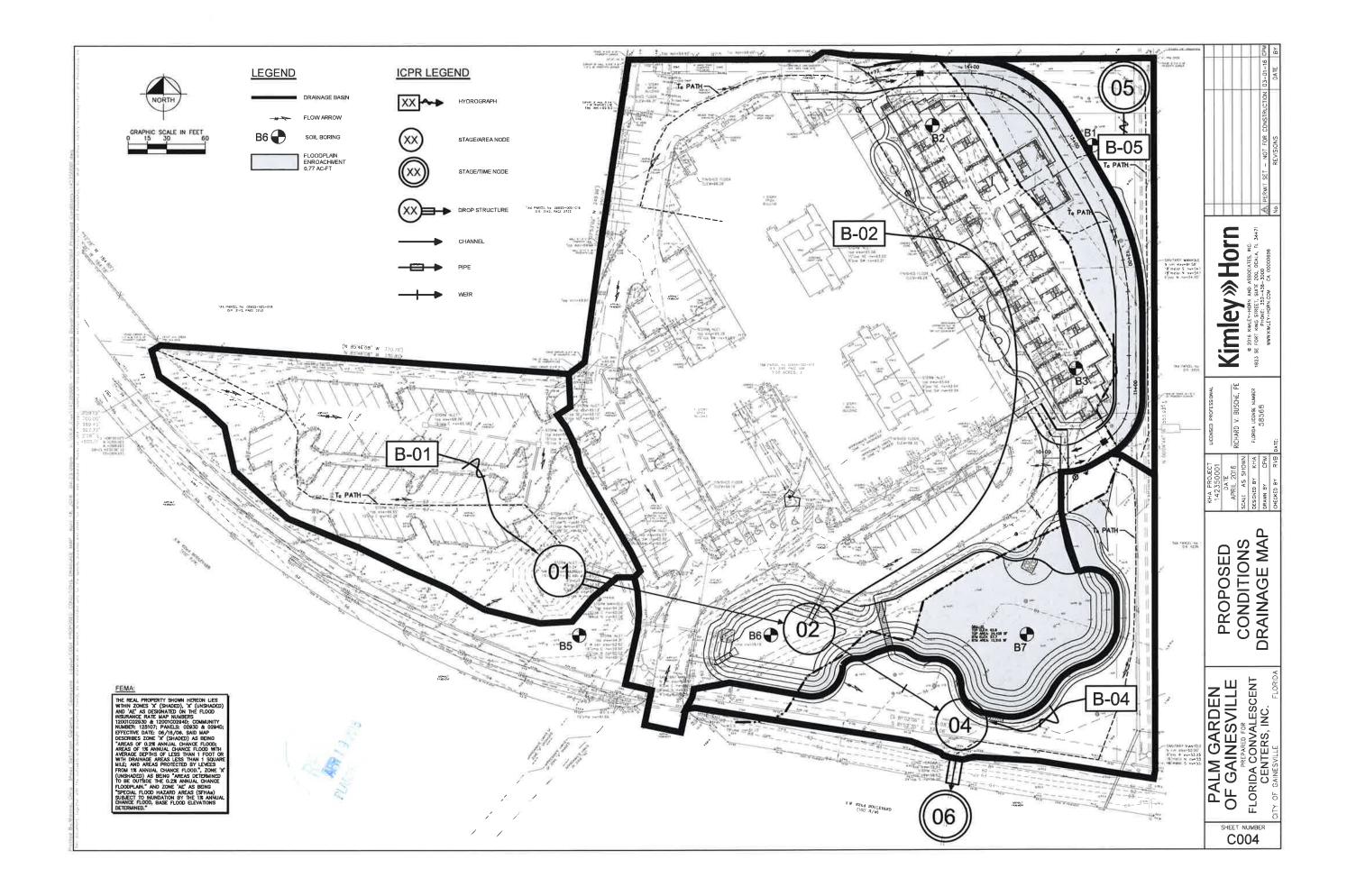
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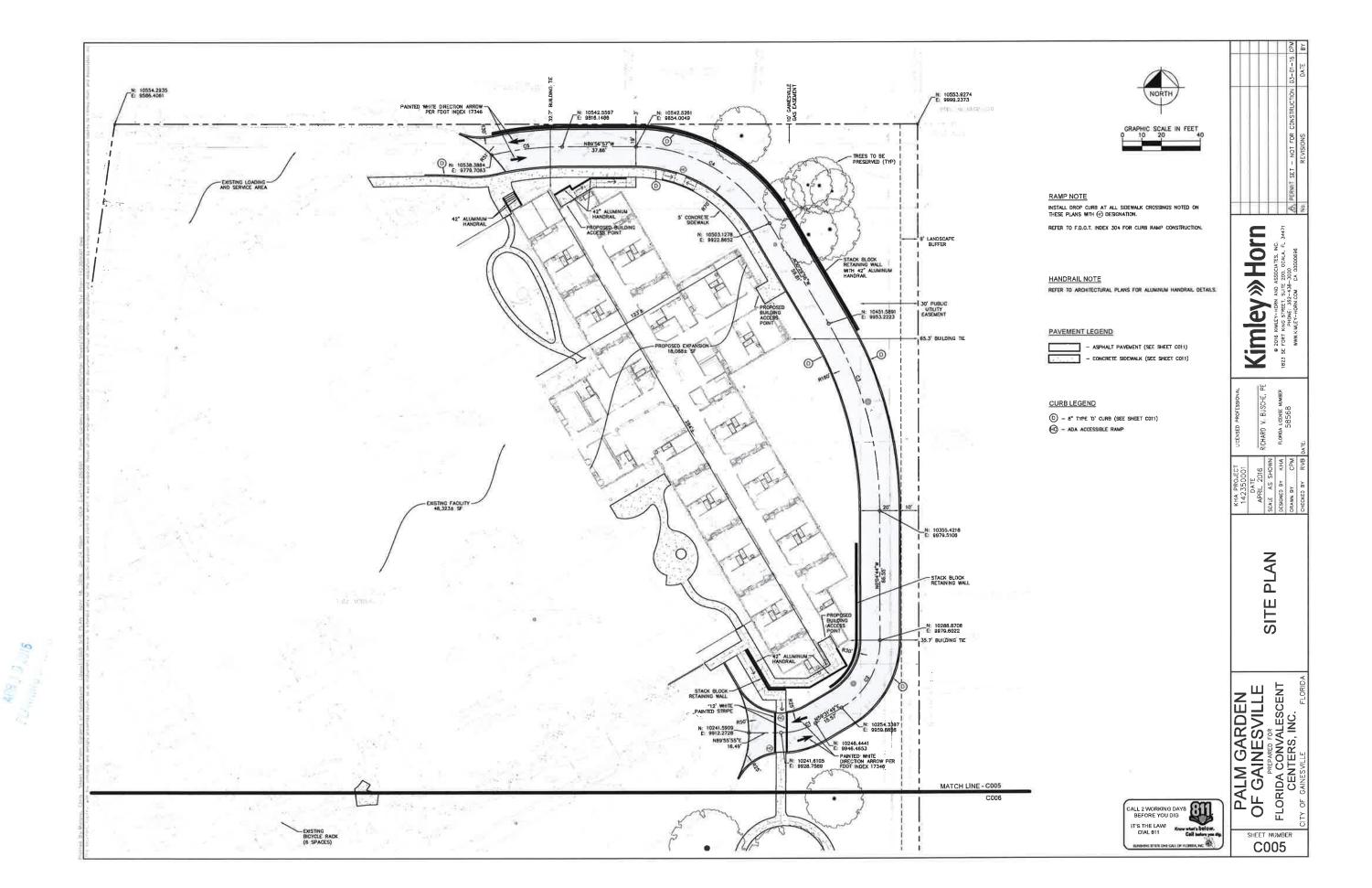
PALM GARDEN
OF GAINESVILLE
PREPARED FOR
FLORIDA CONVALESCENT
CENTERS, INC.

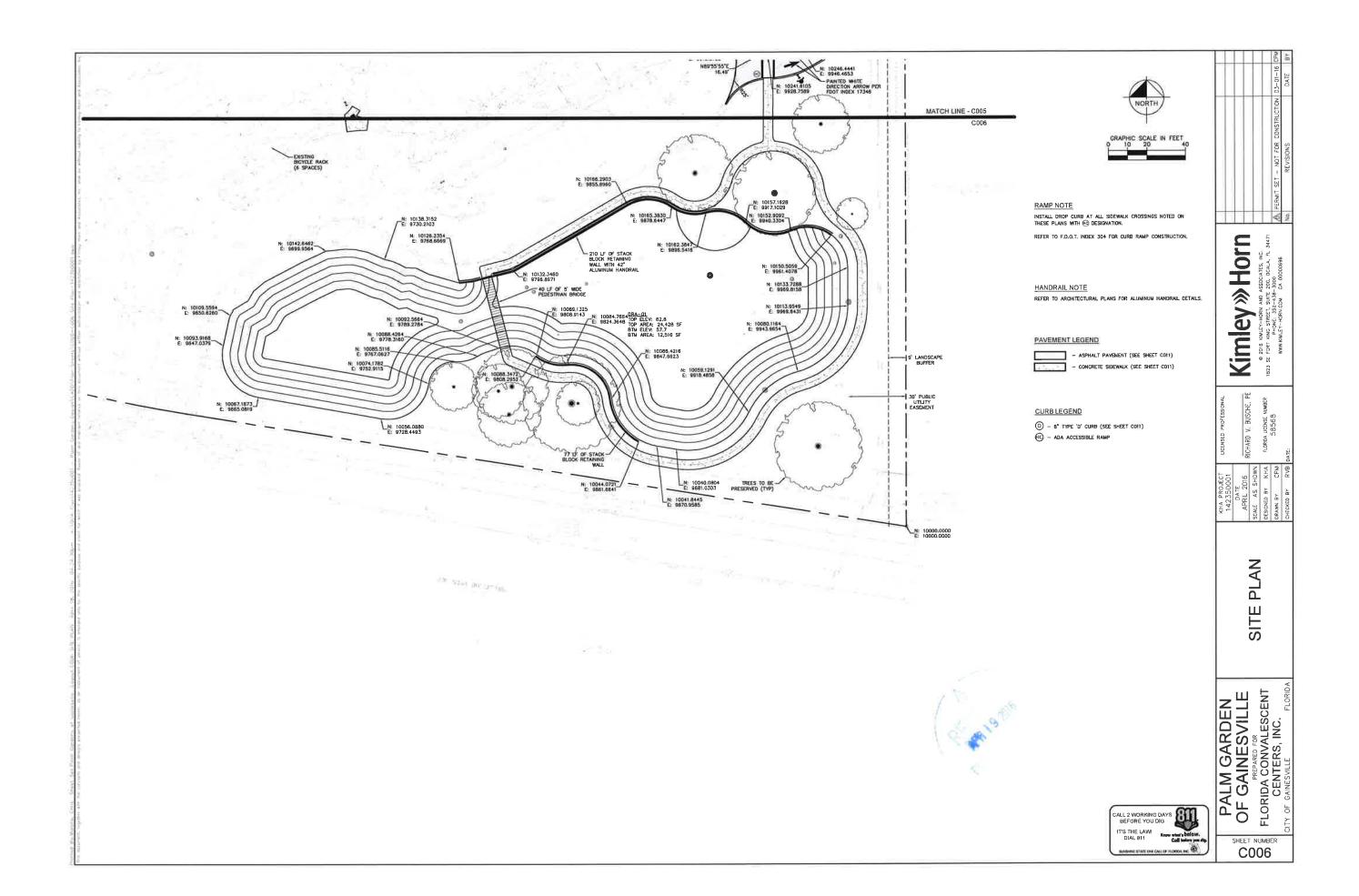
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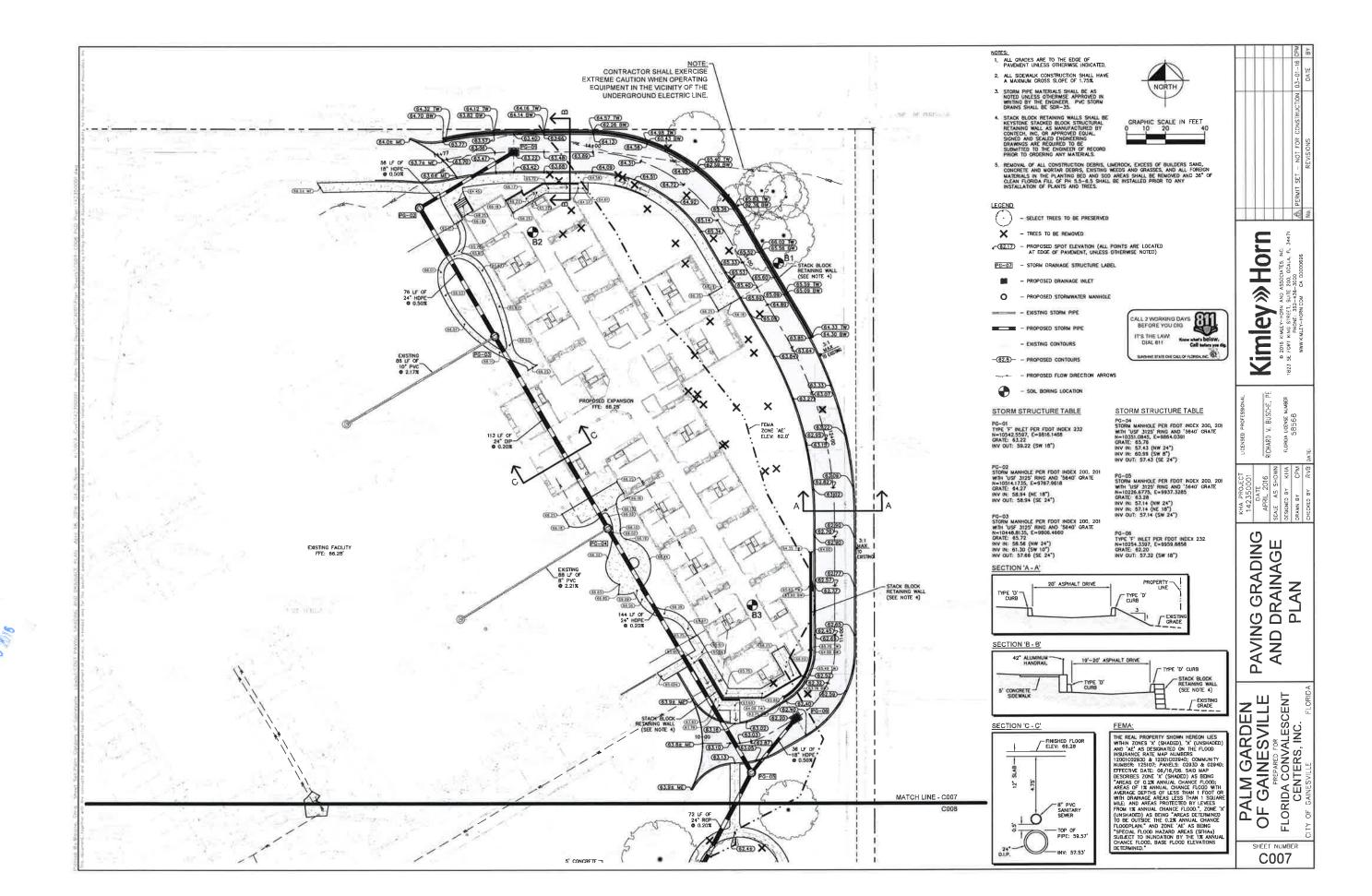
CALL 2 WORKING DAYS
BEFORE YOU DIG IT'S THE LAW! DIAL 811

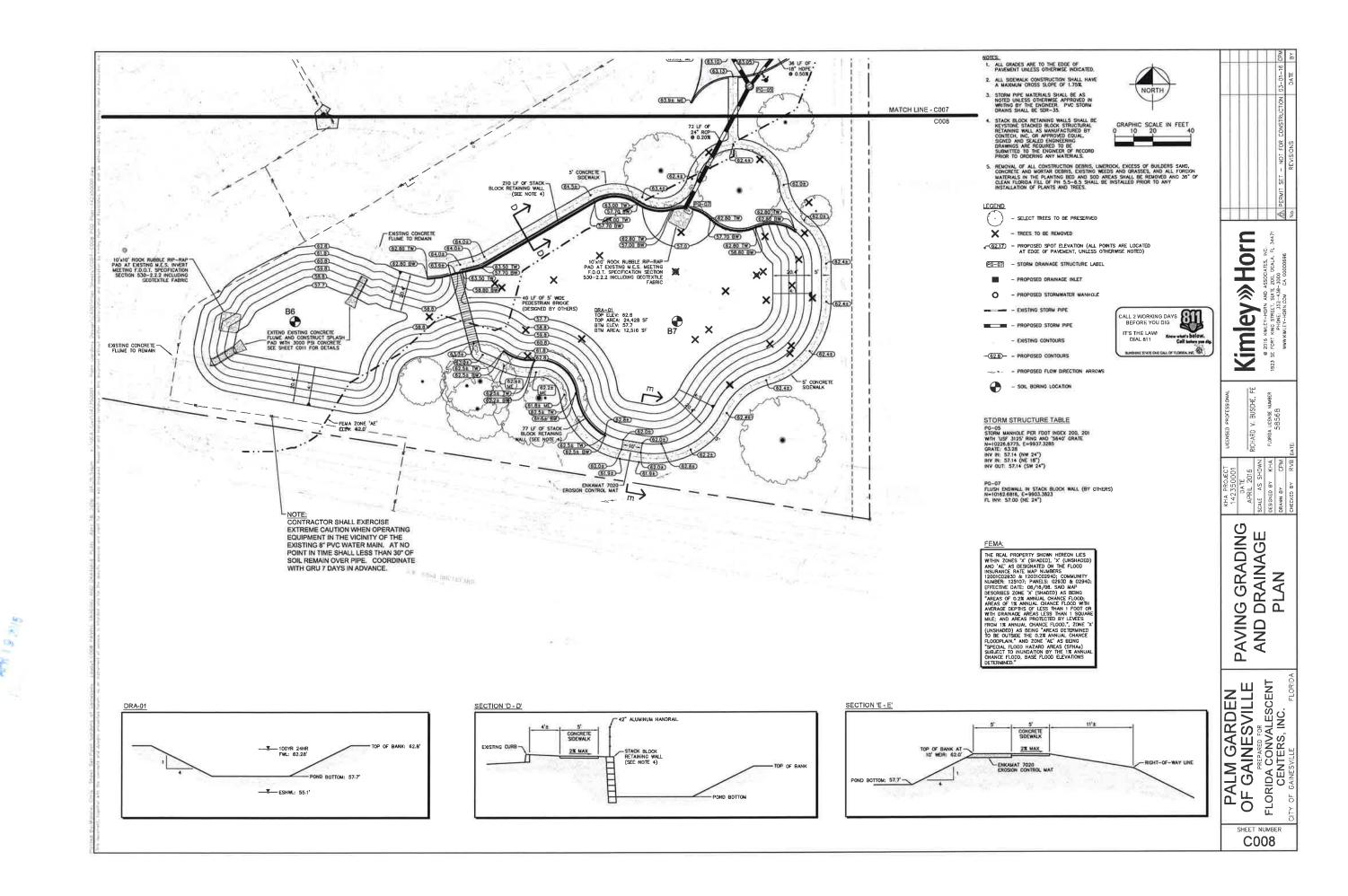


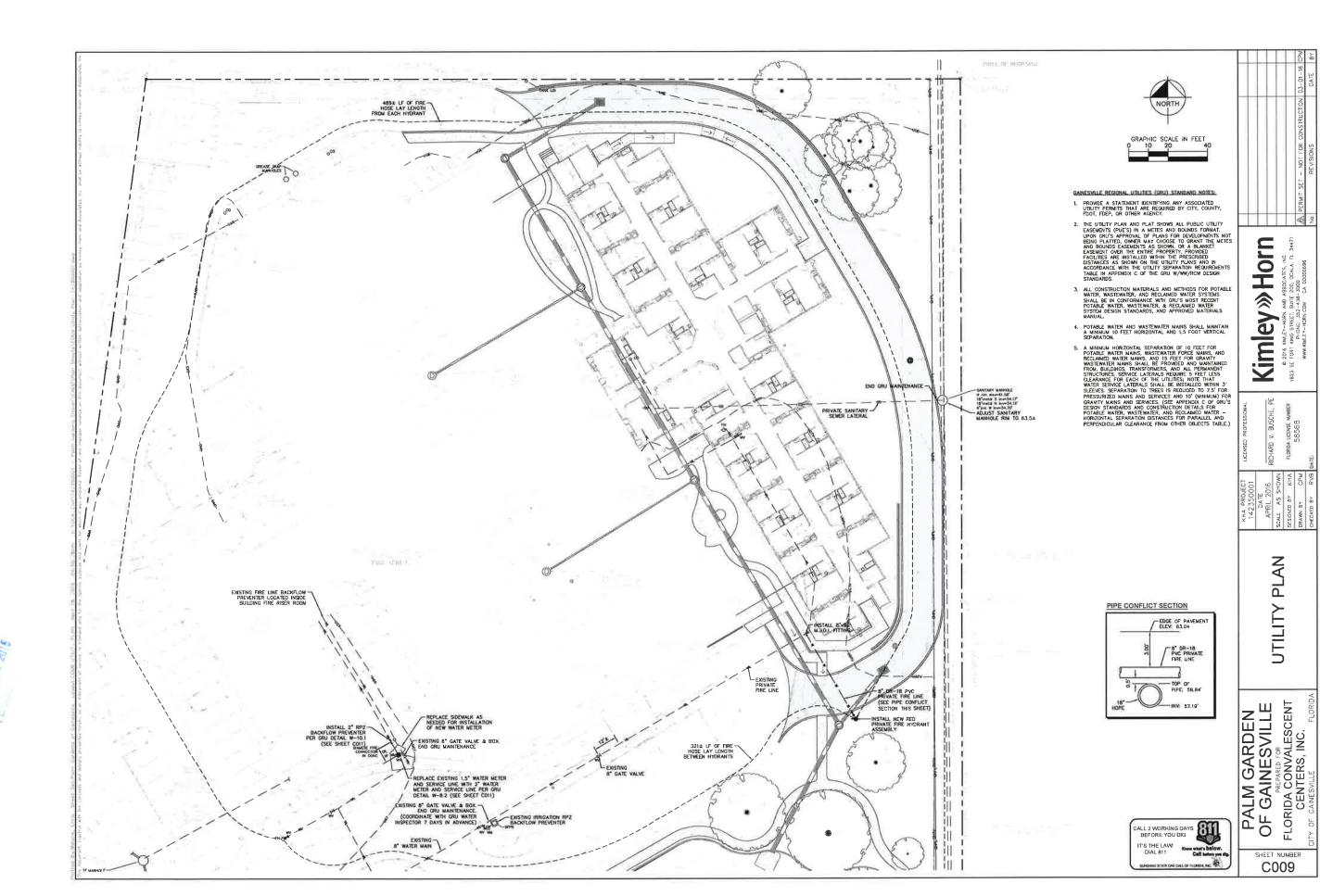


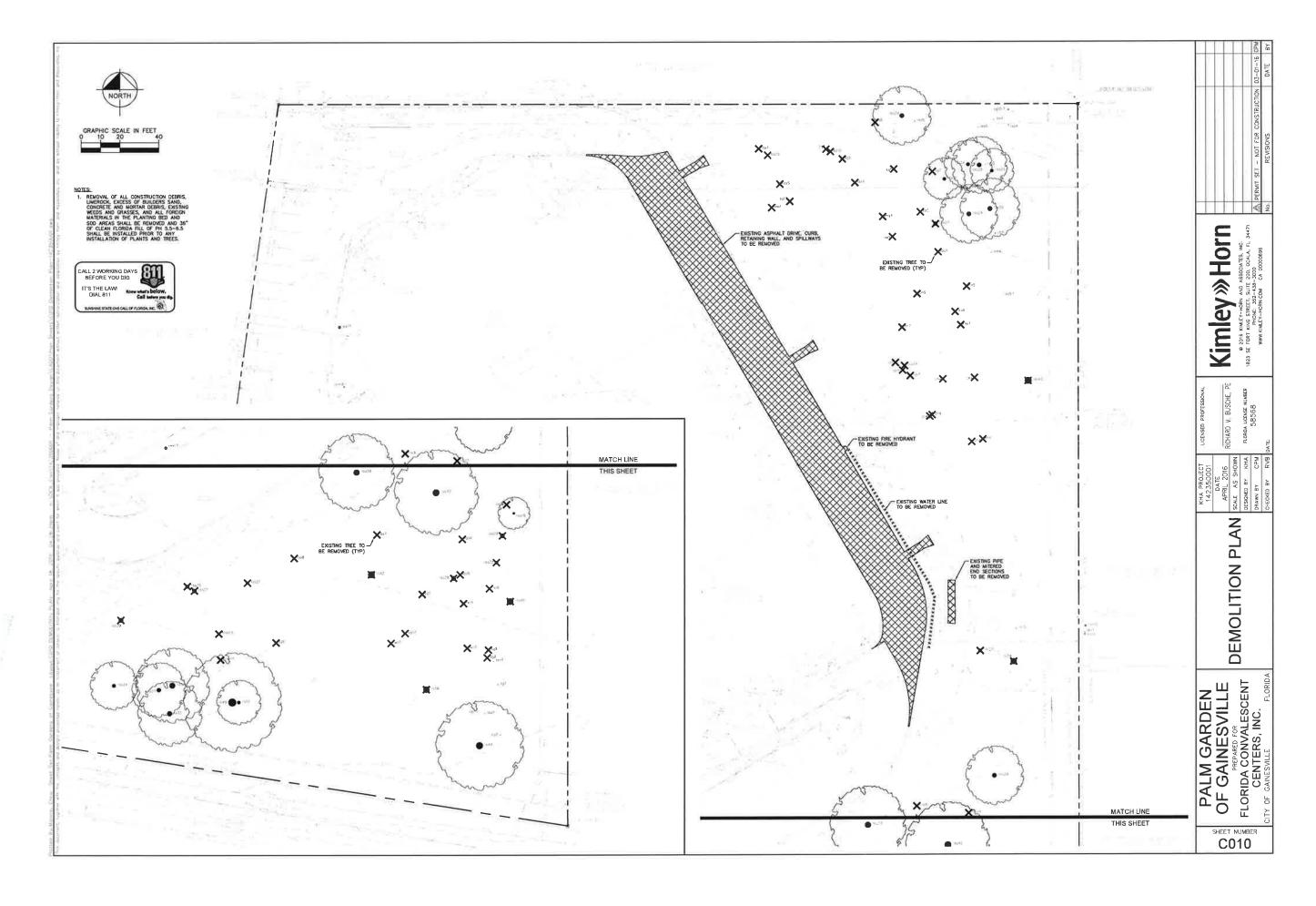




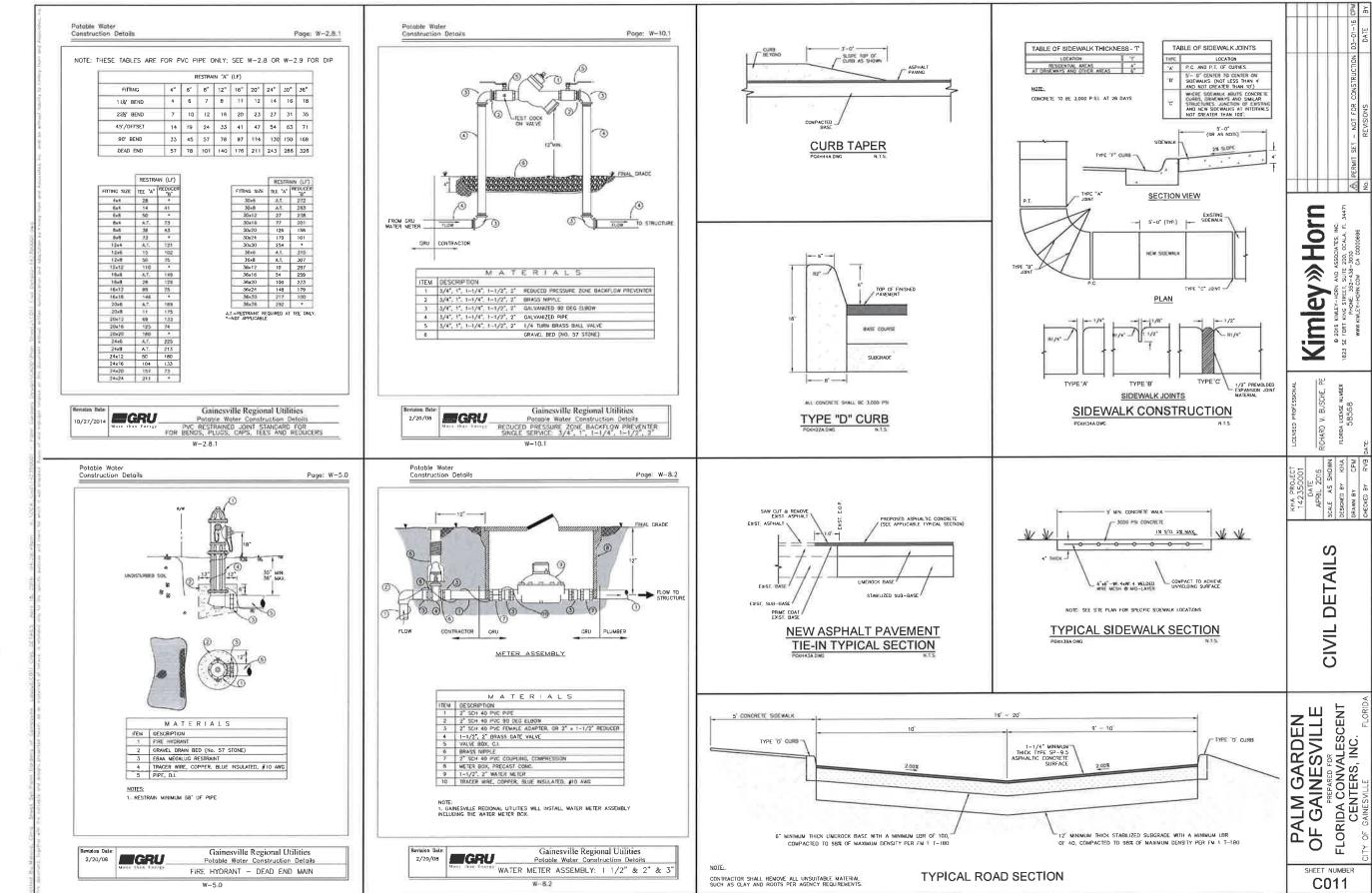








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TIMING OF SEDIMENT - CONTROL PRACTICES:

SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH-DISTURBING ACTIVITY.

SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED.

STABILIZATION OF NON STRUCTURAL PRACTICES:

CONTROL PRACTICES SHALL PRESERVE EXISTING VEGETATION WHERE ATTAINABLE AND DISTURBED AREAS SHALL BE RE-VEGETATED AS SOON AS PRACTICAL AFTER GRADING OR CONSTRUCTION.

DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN FOURTEEN DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN FORTY-FIVE DAYS. PERMANENT OR TEMPORARY SOIL STRABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN FOURTEEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FORTY-FIVE DAYS.

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT

SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE OR DIVERSIONS TO SETTLING FACILITIES SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW,

INLET PROTECTION:

ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING PONDED AND FILTERED.

TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

ALL SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR FILTER FABRIC FENCES. AND THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE

PERMANENT VEGETATION:

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

CONSTRUCTION ACCESS ROUTES:

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES OR PUBLIC ROADS WHERE RUNOFF IS NOT CHECKED.

INSPECTION SCHEDULE:

- 1. DIVERSION SWALE AND STRUCTURAL PROTECTION INSPECT EVERY 7 DAYS OR AFTER EACH RAINSTORM PRODUCING RUNOFF. REPAIR AS REQUIRED.
- 2. INLET PROTECTION INSPECT FOR SEDIMENT ACCUMULATION AFTER EACH RAINFALL AND DAILY DURING CONTINUED RAINFALL. REPAIR OR REPLACE WHEN WATER FLOW IS RESTRICTED BY SEDIMENT.
- VEGETATIVE PLANTING INSPECT AFTER SPROUTING OCCURS AND REPLANT BARE AREAS. INSPECT ESTABLISHED COVER EVERY 15 DAYS FOR DAMAGE; REPLANT AS REQUIRED, MAINTAIN ESTABLISHED COVER AT MAXIMUM 6" HEIGHT. IRRIGATE AS REQUIRED DURING DRY PERIODS TO MAINTAIN LIVE VEGETATION.

CONSTRUCTION SEQUENCE:

- 1. INSTALL SEDIMENT CONTROL MEASURES
- STABILIZE SITE WITH TEMPORARY VEGETATION AS NEEDED.
- 4. PERFORM IRRIGATION AND UNDERGROUND UTILITY CONSTRUCTION ACTIVITIES.
- 5. CONSTRUCT NEW TRAILS AND INSTALL LANDSCAPING.
- 7. INSTALL PERMANENT VEGETATION.
- B. PERFORM CONTINUING MAINTENANCE THROUGHOUT ALL CONSTRUCTION OPERATIONS.

DITCH BARRIERS:

BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

THE REMAINING STEPS FOR INSTALLING A STRAW BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION. THE STRAW BALES SHALL BE INSTALLED SUCH THAT UNDERCUTTING BENEATH THE BALES IS MINIMIZED BY THE USE OF ROCK CHECK DAMS PLACED ADJACENT TO THE STRAW BALES.

THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT-LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

STRAW BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

SEDIMENT FENCE:

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

- THE HEIGHT OF A SEDIMENT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- 5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1—INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND
- 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSURE POST SPACING ARE USED, THE WRE MESH SUPPORT FENCE MAY BE ELIMINATED IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROMSIONS OF ITEM NO. 6 APPLYING.
- 8. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
- SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE

SEDIMENT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED

SHOULD THE FABRIC ON A SEDIMENT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE—THIRD THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

THIS PLAN AND NARRATIVE REPRESENTS THE MINIMUM AMOUNT OF EROSION AND SEDIMENT CONTROL MEASURES, IN THE OPINION OF THE ENGINEER, THAT MAY BE NECESSARY UNDER FAVORABLE WEATHER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MEASURES OR PRACTICES THAT MAY BE NECESSARY TO CONTROL EROSION, TURBID DISCHARGE, FUGITIVE PARTICULATES, ETC. TO FULLY COMPLY WITH ALL GOVERNMENTAL RULES AND/OR PERMIT

EROSION AND SEDIMENT CONTROL NARRATIVE

PLAN DESIGNER: KIMLEY-HORN AND ASSOCIATES INC 1823 SE FORT KING STREET, SUITE 200 OCALA, FLORIDA 34471 PHONE: (352) 438-3000

FLORIDA CONVALESCENT CENTERS, INC. 2033 MAIN STREET, SUITE 300 SARASOTA, FL 34237 DEVELOPER:

NORTH: SOUTH: SW 62ND BOULEVARD SINGLE FAMILY / CONSERVATION SW 62ND BOULEVARD

EROSION AND SITE RUNOFF WILL BE CONTROLLED BY THE USE OF SEDIMENT FENCE AND STABILIZED VEGETATION WHERE CONTROL MEASURE:

SITE CONTACT: ROB GREENE FLORIDA CONVALESCENT CENTERS, INC. 2033 MAIN STREET, SUITE 300 SARASOTA, FL 34237

POLLUTION PREVENTION:

THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM IS REGULATED THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). IF YOUR CONSTRUCTION ACTIVITY MEETS THE FOLLOWING CRITERIA:

- CONTRIBUTES STORM WATER DISCHARGE TO SURFACE WATERS OF THE STATE OR INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4); AND/OR
- DISTURBS ONE OR MORE ACRES OF LAND INCLUDING LESS THAN ONE ACRE IF ACTIVITY IS PART OF A LARGE COMMON PLAN OF DEVELOPMENT OR SALE THAT WILL MEET OR EXCEED A ONE ACRE THRESHOLD. DISTURBANCE INCLUDES CLEARING, GRADING AND EXCAVATING. THEN YOU WILL BE REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) AND PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). FOR MORE INFORMATION PLEASE VISIT FDEP'S WEBSITE AT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES.

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Kimley

RICHARD V BUSCHE, NWN CPM CPM

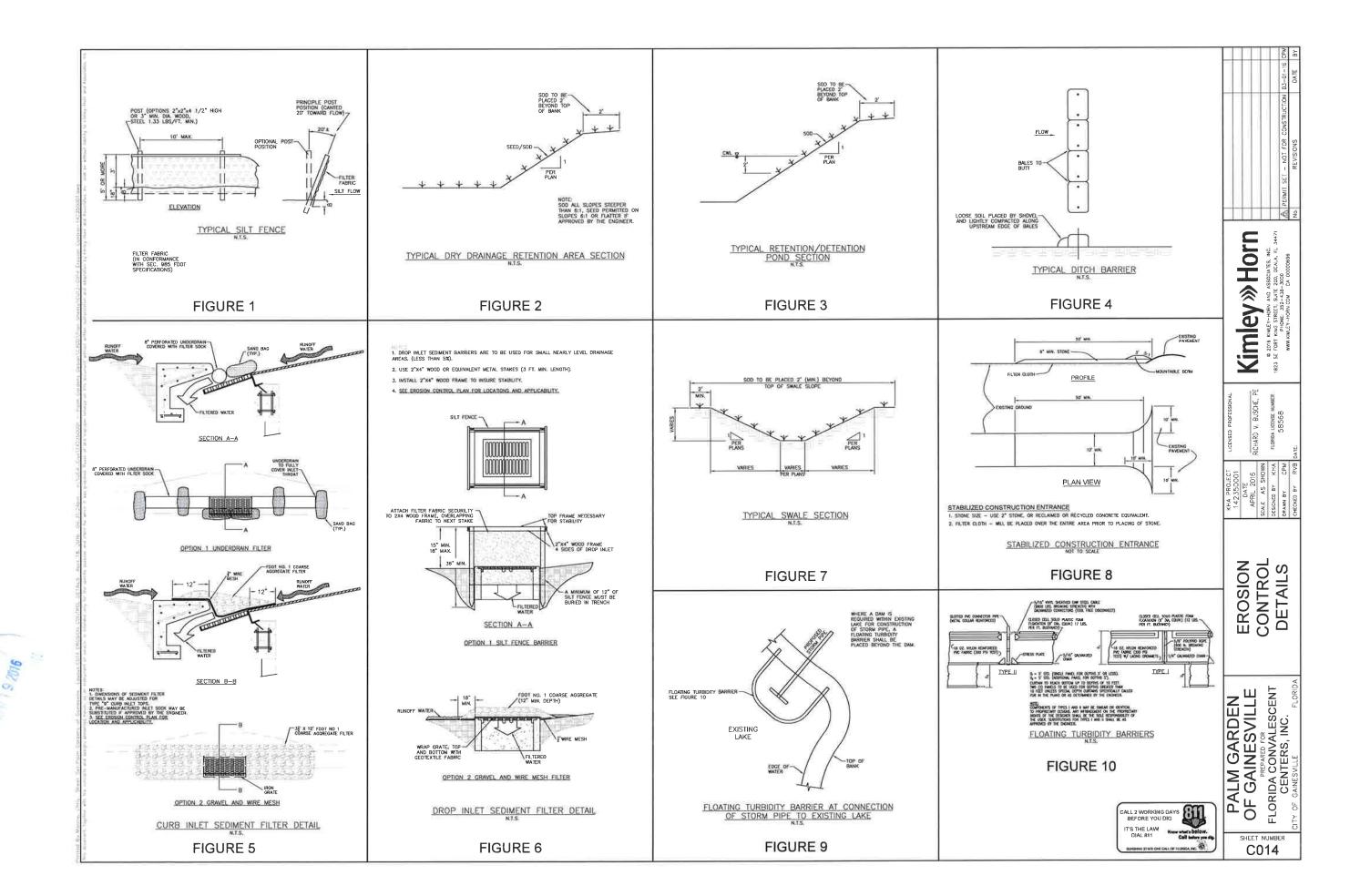
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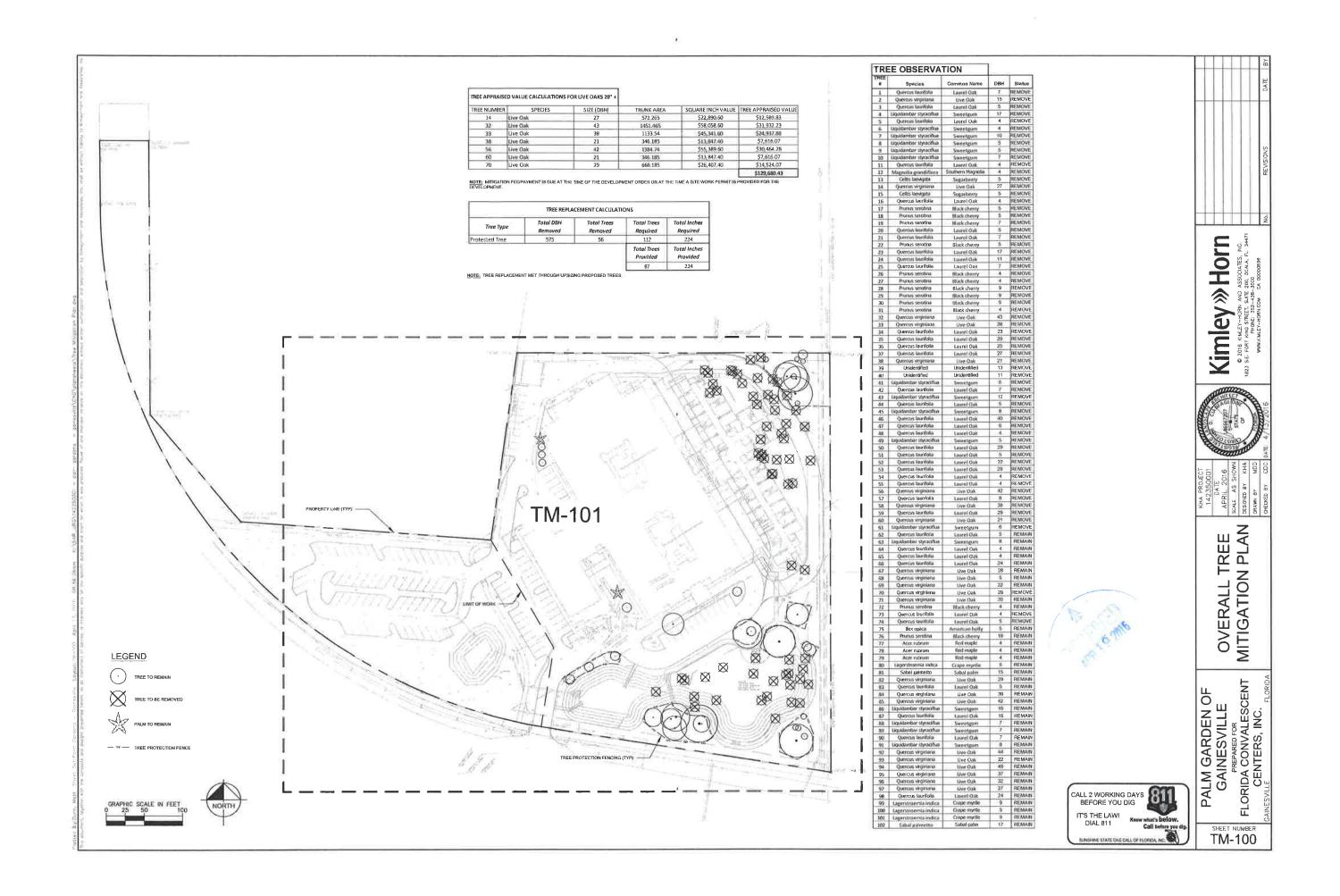
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PALM GARDEN
OF GAINESVILLE
PREPARED FOR
FLORIDA CONVALESCENT
CENTERS, INC.

CALL 2 WORKING DAYS
BEFORE YOU DIG IT'S THE LAW DIAL B11

SHEET NUMBER C013







TREE MITIGATION SPECIFICATIONS

- CONTRACTOR SMALL ADMEAR TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OR COUNTY ZORINING CODE. THEE PROTECTION (LATEST EDITION), WHICHEVER IS MORE STRINGENT SMALL APPLY.
- 2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE PROJECT ARBORIST PRIOR TO BEDINNING WORK
- ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, GETER SOIL DISTURBANCE.
- NO SIONS, BUILDING PERMITS, WHIES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM, GUY WHES DESIGNED TO PROTECT TREES ARE EXCLUDED FROM THIS PROHIBITION.
- EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
- CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY AND PROJECT ARBORIST PRIOR TO CONSTRUCTION NO PERSON MAY REVOVE OR CAUSE TO BE REMOVED ANY PROTECTED TREE OR PALM WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED BY THE APPROPRIATE PERMITTION AGENCY.
- FOR PROTECTED TREES OR IPALMS BEING REMOVED. THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE OPPORTUNITY TO RELOCATE TREES DESIGNATED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING MORNCYS EXPENSE
- CONTRACTOR IS RESPONSIBLE FOR POSSESSIND ALL REQUIRED APPLICATION LICENSES, BUSINESS REGISTRATIONS AND BISBURNICE, PRETICIDE LABELD, AND MATERIAL, DATA SAFETY SHEETS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR AVAIVED ALL SPAL CONTAINMENT MATERIALS AND REQUIRED PESSONAL PROTECTIVE EQUIPMENT FOR PESTICIDE APPLICATION AND ADDICENTAL SPRILS ON SHE AT ALL TIMES, THE CHAMER RESERVES THE ROUTH TO RISPECT EACH APPLICATION AND HAVE THESE MATERIALS PRESINTED BETOR AND OURSIDE AND VESTICIDE TREATMENT.
- WHERE TRAFFIC AREAS ARE PROPOSED WITHIN THE ORP LINE OF PROTECTED TREES AND LESS THAN FOLR (4) RICHES OF GRADE CHANGE ARE PROPOSED, PEDIREABLE SUPPACES THAT TALLOW ARE AND WATER BITTO THE SOIL SHOULD BE USED IN LIEU OF ASPHALT OR OTHER SIDE. WHERE YOU DESIGNED AND THE SOIL SHOULD BE
- THEE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN BICHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES, COORDINATE WITH PROJECT ARBORIST.
- THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF T BUILDED TREES AND SHALL SE COORDINATED WITH THE OWNER SELECTED PROJECT ANDORST, THE DESIRED SEQUENCE IS OUTLINED BELOW:
 - a. TREE PROTECTION FENCING
- b. ROOT PRUNING AND ROOT BARRIERS
- d. TREE GANOPY PRU
- e. FERTILIZATION
- INSECTICIDE.

- PRIOR TO THE ERECTION OF ANY TREE PROTECTION FENCING, ALL FORGION SURFACE MATERIAL, TRASH OR DEBRIS SHALL BE REMOVED FROM THE AREA TO BE EXCLOSED BY THE FEROMO, AFTER ENECTION OF THE FENCING NO SUCH MATERIAL OF LITTER SHALL BE PERMITTED TO REMOWN WITHOUT BY PROTECTION AREA.
- TREE PROTECTION FERCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTIVE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
- NATIVE GROUND COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THIROUGHOLT CONSTRUCTION, OTHER GESIGNATED VEIGETATION AND REVASIVE FLANT SPECIES SHALL BE REMOVED ONLY BY MANUAL LABOR UNILLING WHICH DOCUL, OR BY OTHER METHICOS APPROVED BY THE PROJECT ARBORITH.
- TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE THEE MITIGATION PLANS AND CETALS, OR AS REQUESTED BY LOCAL ACENCY.
- FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARBORUST
- NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PHOTECTION ZONE.
- EBOSION CONTROL DEVICES SUCH AS SELT FENCING, CEGIUS BASING, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT BILLATION AND OR EROSION WITHIN THE TREE PROTECTION ZONE.
- CONSTRUCTION ACTIVITY SHALL NOT DESTROY ON HIREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TIMES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
- DO NOT INITIALL CONDUIT, ORAIN OR BIBIGATION LINES, OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ANDORST. IF LINES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED ON BORRED UNDORT THE TREE.
- CONTRACTORS ACCESS TO FENCED THEE PROTECTION AREAS WILL BE PERSITTED ONLY WITH APPROVAL OF THE PROJECT ANDICIDST.
- EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (3) RICHES OF CUT OR FILL COORDINATE WITH PROJECT ARBORIST.
- TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE ERECTED UNTIL THE TREE IS READY TO BE RELOCATED AND NEW FENCING BRAIL DE ERECTED AT THE TREES NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMMETE.
- 14. IF ANY DAMAGE TO TITLE PROTECTION FEBCING SHOULD OCCUR BY ACCIDENT ON NEGLIGENCE. THE CONTRACTOR SHALL HE RESPONSIBLE FOR IMMEDIATE REPAIRS.
- IF TEMPORARY HALK OR ACCESS ROADS MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (B) ROHES OF MUCHO OR CRAYES, SHALL BE CREATED TO PROTECT THE DOST, THE ROAD BED MATERIAL SHALL BE REPLEMBEDED AS DECESSARY TO MANIFAM A BUY, BINCH ROAD BED AT ALL TIMES, CONTRACTOR SHALL REMOVE ALL SHOW MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER RECESSARY.
- 16. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST PRIOR TO THE REMOVAL OF ALL TIME PRIOTECTION FERCING

C. ROOT PREMING/THENCHING

- 1, TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARBORRIST.
- TRENDING COUPMENT THAT WILL TURN AT HIGH HPM'S IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARBORDES. APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT FRUNKING OPERATIONS. A MINIMAM DEPTH OF THREE FEET IS REQUIRED.
- 1. INSTALL ROOT BARRIER WHICHE DESIGNATED, SEE TREE MITIGATION PLAN AND DETAIL SHEETS.
- 4. THE TRENCH SHALL DE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATELY.
- 5. TREES TO BE RELOCATED SHALL BE ROOT PROVED A MINIMUM OF TWELVE (12) WEEKS PRIGR TO TREE RELOCATION,
- M. WHEN THE TREE ROOF ZONG WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUBING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.

- 1. ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HARD-OPERATED EQUIPMENT.
- CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUND GOVERS, WEEDS, SAPLINGS, AND INVASINES LISTED ON THE LATEST EDITION OF THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASINE SPECIES.
- 3. PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING

- 4. A TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE SITE CLEARING PHASE.
- TREE CANOPY PRUNING
- TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARBORIST, INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDELINE.
- 1. CONTRACTOR SHALL WHIT THE SITE WITH THE PROJECT ARBORIST TO VERBY THE EXTENT OF REQUIRED PRUNING
- ALL PRIMING SMALL BE PERFORMED BY ACCORDANCE WITH THE RECOMMENDATIONS OF A CUALIFIED INTERNATIONAL SOCIETY OF AMBICULTURE (SA) CERTIFIED ARBORIST OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORISTS (ASCA) REGISTERED.
- 3. AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CORTIFIED ARBORIST
- WHILE IN THE TREE, THE ARBORUST SHALL PERFORM AN ARRIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER.
- PRINTING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI AND PRINTING STANDARD (AMERICA NATIONAL STANDARD FOR TREE CARE OPERATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAL STANDARD PROMINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF BIA'S "REST MANAGEMENT PRACTICES: TREE PRURING".
- WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS. BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.
- 7. NO MORE THAN 20 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITHIN ANY TREE.
- 8. ALL TREES WITHIN THE PROJECT AREA SHALL BE PRUNED AS FOLLOWS:
- a. LINE SHARKH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF BISECT OR DISEASE INFESTATION IS NOT PRESENT.
- b. HEMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.
- CLEANING FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARBORIST.
- III. PRUNING CUTS LARGER THAN 4 INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
- ALL TREES WITH CROWNS THAT PROJECT INTO PARKING LOTIROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.
- S. ALL TREES WITH CROWNS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RUSED TO A HEIGHT OF 8 FEET ABOVE FINISHED GRANE.
- 9. THEES, WHO'S HOOT SYSTEMS WILL BE IMPACTED SHALL RECEIVE THE FOLLOWING PRUNING TO COMPENSATE FOR ROOT LOSS:
- A. THE LOCATION AND SIZE OF BRANCHES FOR REDUCTION SHALL BE DEFINED BY THE PRIOLECT ARBORIST.
- b. REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD REDUCE END WEIGHT ON HEAVY, HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO CHEATER THAN 2 TO 3 INCHES, NEAR THE ENDS OF SCAFFOLD BRANCHES.
- d. HAIGING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE.

10. PROPOSED/REPLACEMENT THEES.

- 11. BHUSH SHALL BE CHIPPED AND SPREAD (UM.Y WHEN CISEASE OR INSECT INFESTATION IS NOT PRESENT) UNDERNEATH TREES WITHIN THE TREE PROTECTION ZONE TO A MAXIMUM DEPTH OF THREE (3) INCHES, LEAVING THE TRUNK CLEAR OF MULCH.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR REPOVING ALL EXCESS DEBRIS ON A DAILY BASIS

F. FERTILIZATION

- CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING BEST MANAGEMENT PRACTICES WITH THE PROJECT ARBORIST PRIOR TO COMMERCEMENT OF WORK.
- EVERY EFFORT THAIL BE MADE TO LITELYE CHEMICALS OF AN ORGANIC OR BIODESSADARLE NATURE BY ORDER TO OFFER THE LEAST MADE TO THE INTERNAL ENVIRONMENT, CONTRACTORIS RESPONSIBLE FOR MICROS, APPLYING, AND DISPOSAL OF ALL CHEMICALS AN ACCORDING WITH STRUCT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS, COORDINATE WITH PROJECT ARRORST FOR FURTHER INSTRUCTION.
- ONLY TIRES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE THEE MITIGATION PLAN AND THEE INVENTORY SCHEDULE SHALL BE TREATED.
- a. MIX FERTILIZER ACCORDING TO MANUFACTURER'S DESCRICATIONS INTO A TANK WITH AGITATION CAPABILITY.
- IL: MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAMIL TANK WITH FERTILIZER, ACITATE MIX.
- MUECT THE MOTURE WITH A POORAULIC BLECTION SYSTEM BITO THE UPPER 6-12 INDIES OF SOR WITH A SOR PACKE, BLECT AT THE RATE OF CHE THRO (1/3) GALLON AT EACH PLECTION SITE. d. THE CRUTICAL ROOT ZONE AREA PLUS Z SEYOND THE CRITICAL RIDOT ZONE SHALL BE INJECTED, BUT NOT BEYOND ROOT PRIMING LOCATIONS.
- 6. FERTILIZER SHALL WE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEMS.
- L. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY THE PROJECT ARBORIST PRIOR TO DISPOSAL
- CONTRACTOR SHALL PROVIDE MYCORPUZAL TRANSPLANT INDICALANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS
 AND AS RECOMMENDED BY THE PROJECT ARBORIST, MIX INDICALANT IN 16" WIDE YOPSOIL RING AROUND THE ROOT BALL.
- CONTRACTOR SHALL PROVIDE INJECTABLE MYCCHRHIZAL INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. AGITATE FOR 10 MINUTES.
- c. INJECT THE MIXTURE WITH A HYDRUGUE BUECTION SYSTEM BITO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/d) CALLON AT EACH PLECTION SITE.
- 4. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY PROJECT ARBORIST PRIOR TO DISPOSAL 7. TRANSPLANT MAINTENANCE
- A PPROXIMATELY ONE YEAR AFTER PLANTING, THE CONTRACTOR SHALL REFERTILIZE ALL TRANSPLANTS UTILIZING THE SAME 3 PROCEDURES ABOVE.

- NOTIFY PROJECT ARBORIST IF ANY INFESTATION IS NOTICED.
- 2. FOLLOW PROJECT ARBORIST'S RECOMMENDED PROCEDURES.
- 3. FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS CONCERNING APPLICATION. READ ALL WARNING LABELS.
- ANY PETS, AS WELL AS, THE PETS FOOD AND WATER BOWLS SHOULD BE REJACYED FROM THE AREA AND ANY SWIMMING POOLS SHOULD BE COVERED. COORDINATE WITH PROJECT ARBORIST FOR FURTHER WISTRUCTION.
- 5. EXEMPE COMPLETE CONFIAGE AND REAPPLY 2-3 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE

- EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS, CONTRACTOR SHALL BRIGATE DY HAND OR BY TELIPORARY HIRICATION.
- 2. BRIGATE AS REQUIRED BY PROJECT ARBORIST UNTIL PERMANENT BRIGATION IS INSTALLED AND OPERATING

UNDERGROUND PRINCATION SHALL NOT BE INSTALLED WITHIN THE ORIP LINES OF EXISTING TREES UNLESS HOST PROTECTION MEASURES ARE PROVIDED AND APPROVED BY PROJECT ARBORIST.

- PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARBORIST WITH RED BURVEY RIBBONS AT 38 INCLESS MINIAUM ABOVE GRADE.
- CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE TREE MITIGATION PLANS AFTER THE TREE PROTECTION FENCING IS INSTALLED.
- ALL THEES SHOWN TO BE REMOVED SHALL BE FELLED WITH A CHAIN SAW AND STUAP GROUND IS BELOW SURFACE. ANY THEE SHOWN TO BE REMOVED THAT IS BI AN AREA WHERE COMPACTION IS CRITICAL SHALL BE FELLED WITH A CHAIN SAW AND STUAP REMOVED BY CONTRACTOR.
- ALL WOOD AND STUMPS FROM REMOVALS SHALL SEHAULED FROM THE SITE THE SAME DAY, EXCEPT FOR TOPS, ALL TOPS ARE TO BE MULD-RED AND STOCKPILED OR HAULED DIRECTLY TO MULD-RED AREAS FOR RELOCATED TREES IF SCHEDULING FERMITS. TOPS SHALL BE CHIPPED AND PLACED IN THE TITLE FRONCECTOR SOME TO A DEPTH OF THIREE (1) INCHES, ALL EXCESS WOOD CHIPS SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.
- 5. ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWNER.
- TREES TO BE REMOVED THAT HAVE BRANCHED EXTENDING ONTO THE CANOPY OF TREEB TO REMAIN MUST BE REMOVED BY A
 OUNTRID BE CERTIFIED AROUND TWO NOT BY DISSIGNITION OF CONSTRUCTION CONTINUCTION. THE GUALAGE ABSORDET
 SHALL REMOVET HIS TIESE OF ANAMORE THAT CAUGES NO DIAGNOS TO THE THEE SAND LIMICENSHION VISICETATION TO REMAIN
- TREES TO HE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SMALL BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORSET. THE TREES SHALL BE CUT NEAR GROWN) LEVEL AND THE STUMP GROWND OUT.

- DET SPADE DUG HOOF BALL, INTO RECEIVING HOLE 4"-6" ABOVE EXISTING GRADE
- 3. WASH SAND OR TOPSOIL INTO AIR POCKETS BETWEEN ROUT BALL AND RECEIVING HOLE,
- INSTALL TOPSCELERIG, 4" HOUR TO WOLL AROUND FERIMETER OF ROOT BALL, MIX MYCORRHIZAL TRANSPLANT INOCULANT INTO TOPSCELERING FER MANUFACTURERS SPECIFICATIONS.
- 5. INSTALL THREE INCHES OF MULCH FROM PERIMETER OF ROOT BALL TO WITHIN 6" OF TREE TRUNK.
- 6. COVER TOPSOL RING WITH 1" OF MULCH AND EXTERN MULCH 4"4" DEEP, AWAY FROM PERIMETER OF ROOT BALL.

- HOLDING AREAS SHOULD NOT BE NECESSARY, CONSTRUCTION PHASING SHOULD BE IMPLEMENTED SO THAT TREES ARE IMMEDIATELY RELOCATED TO THEIR PERMANENT LOCATION, COORDINATE WITH PROJECT ARBORIST AS NEEDED.
- 2. SHOULD A HOLDING AREA BE NECESSARY, TREE PROTECTION FENCING SHALL BE INSTALLED AT THE PERIMETER OF THE ENTIRE
- 3. CONTRACTOR BHALL COORDINATE LOCATION AND SPECIFICATIONS OF THE HOLDING AREA WITH PROJECT ARBORIST
- CONTRACTOR SHALL SUPPLY TESHORARY BRIBGATION TO THE HOLDING AREA CONSISTING OF ABOVE GROUND PVC-DR POLYET-IV-LOSE PIPE, SIPPLY OR BOTOR HEADS (WITH HEAD TO HEAD COVERAGE, AND A CONTROLLER, COORDINATE WITH PROJECT ARRORMET FOR CONTROLLER SETTINGS AND ALTERNATIVE WATERINGS WERE THOSE.

- CONTRACTOR SHALL COCROBATE ALL EARTHWORK OPERATIONS WITHIN TIRES PROTECTION AREAS WITH THE PROJECT ARBORIST PRICE TO SEGMENTO WORK.
- ALL TOPSOIL BHALL BE NATURAL, FRINKE, PERTILE FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
- TOPSOE, PITRANCE OF 5.5 TO 7.0, 3-5 PERCENT GROWIG MATERIAL LIVINUM, FREE FROM BUBSOIL, DIJUCTIONALE WEEDS. LITTER, SCOS, SITE FLAX, STORIES LARGER THAN DISE (1) INCH IN OWNETER, STURPS, ROOTS, TRASIL TONG SUBSTANCES, OR ANY OTHER MATERIAL WRIGHT MY BE INJURY TO FLAX FROWNI.
- VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURB AT LEAST FOUR (4) INCHES DEEP, DO NOT GREAM TOPSOIL FROM BOOS OR MARSHES.

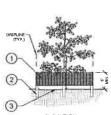
5. PROJECT ARRORIST SHALL APPROVE ALL TOPSON, PRIOR TO PLACEMENT

ELEVATION

<u>PLAN</u>

- IF DAMAGE TO ANY TREE SHOULD OCCUR BY ACCIDENT OR REGLIGERCE DURING THE CONSTRUCTION PERIOD, THE PROJECT ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPAIR BY THE CONTRACTOR.
- IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT PERMISSION OF THE COWNERS REPRESENTATIVE. THE PROJECT ARBORIST SHALL APPRAISE THE TREE AND MAJE RECOMMERCATIONS TO THE CONTENT FOR REPLACEMENT BY THE CONTRACTOR. THE CONTRACTOR GHALL BE RESPONSIBLE FOR REPLACEMENT OF THE TREE AND ANY FEES THAT MAY BE ASSESSED TO THE OWNER BY THE COVERNOR ARENOY.



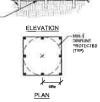




(1) If OF MULCH RISIDE BANKERS A. ENTIRE ORIPLINE OF HIGH QUALITY TREES SHALL DE PROTECTED.

SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.

(S) IS LETT THE LY MALES.



(3) If OF MACHINGER NAMED IN ESTALATION SOTTO

POSTS SHOULD BE DRIVEN INTO THE GROUPS TO A DEP OF 15 OF THE HEIGHT OF THE POST, FOR EXAMPLE, A R POST SHOULD BE SET AT LEAST 2 BITS THE GROUPS. G. SPACE POSTS EVERY 9 (HIPC) TO IT MAX.S.









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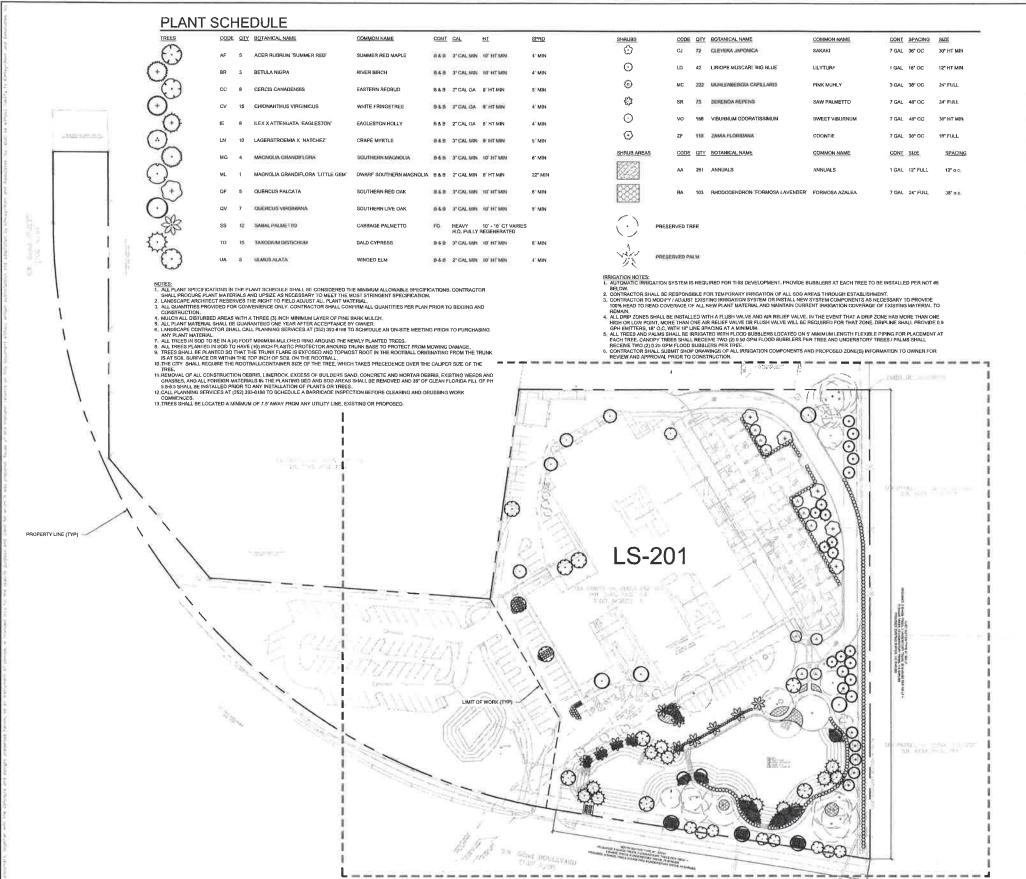
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SHEET NUMBER TM-150







LANDSCAPE CALCULATIONS

STORMWATER LANDSCAPING PER SECTION 30,253,2.A.1

PERIMETER LANDSCAPING PER SECTION 30 252.1,E

SOUTH BUFFER: 370 LF, 9' WID I'M REQUIRED: 8 SHADE TREES, 8 UNDERSTORY TREES, 75 SHRUBS PROVIDED: 8 SHADE TREES (6 EXISTING), 8 UNDERSTORY TREES, 75 SHRUBS

EAST BUFFER: 554 LF, 0' WIDTH REQUIRED: 11 SHADE TREES, 11 UNDERSTORY TREES, 110 SHRUBS PROVIDED: EXISTING TREE BUFFER, 110 SHRUBS

INTERIOR LANDSCAPING PER SECTION 30.262.2

1 TREE / LANDSCAPE ISLAND PROVIDED

STREET LANDSCAPING PER SECTION 30.253

1 HIGH QUALITY SHADE TREE AT 30' - 50' O.C. PROVIDED

PLANT SIZE SPECIFICATIONS PER SECTION 30 256 A.2 SHADE TREE: MINIMUM 7" HEIGHT, 2" CALIPER 75% OF TREES SHALL BE NATIVE SPECIES



Kimley » Horn ATES, OCALA,



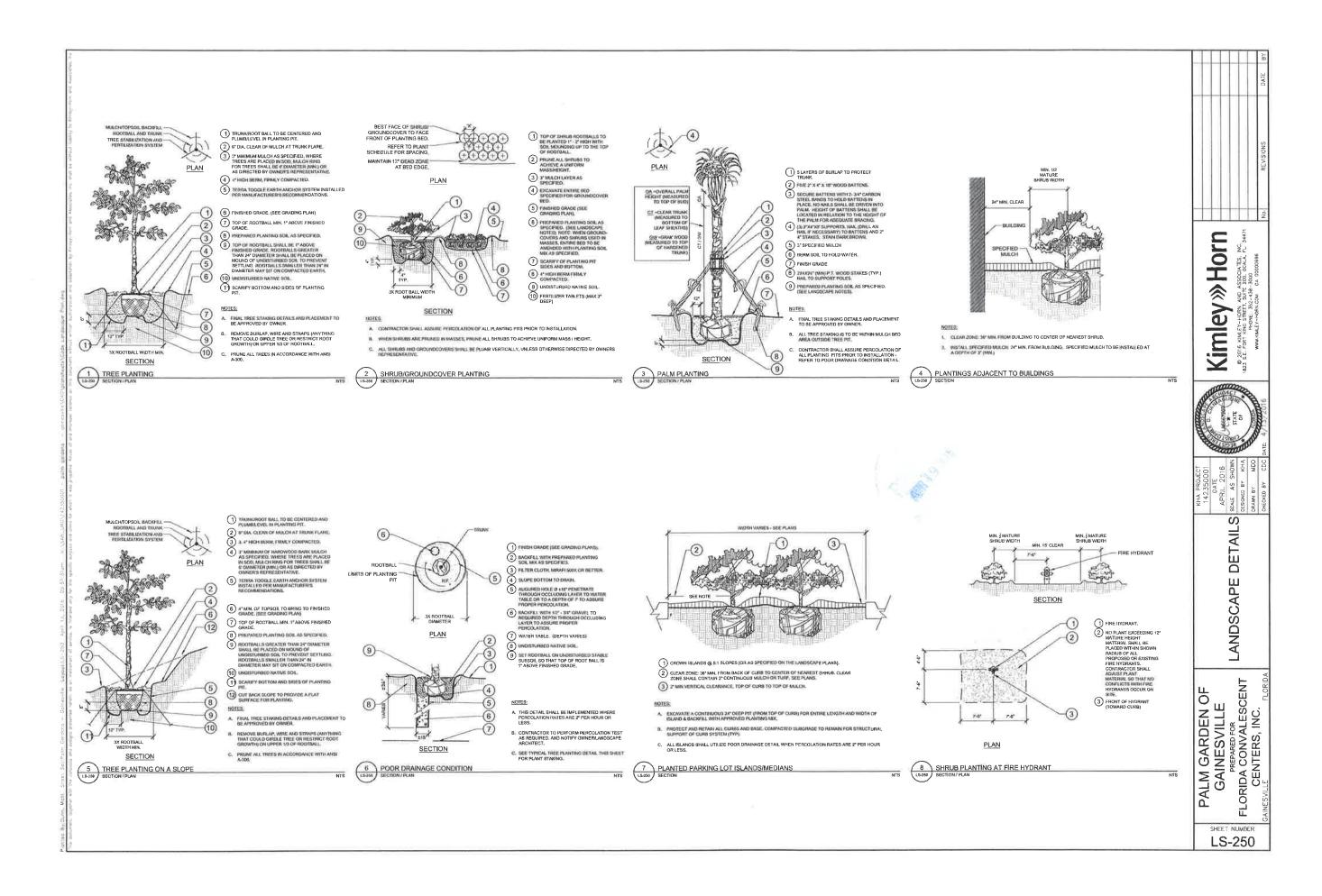
M ╗╗ LANDSCAPE OVERAL

PALM GARDEN OF
GAINESVILLE
PREPARED FOR
FLORIDA CONVALESCENT
CENTERS, INC.
GAINESVILE

CALL 2 WORKING DAYS BEFORE YOU DIG IT'S THE LAWI DIAL 811

LS-200





GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

- 1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY DTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED HEREIN.
- 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B: PROTECTION OF EXISTING STRUCTURES

- ALL EXISTING BUILDINGS, WALKS, WALLS, PAYING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE REPORTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED, ALL DAMAGE RESTANTING FROM NECLIGENCE SHALL BE REPORTED OR REPLACED TO THE SA SISTACTION OF THE OWNER, AT NO COST TO THE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- 3. THE CONTRACTOR SMALL SUBBIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIBLECT APPLICATION OF FLOOT DESIGN STANDARDS, BIDEX 500, IF A DIBLECT APPLICATION OF INDEX 400 IS PROPOSED, THE CONTRACTOR SHALL SIBMIT IN WRITHING A STATEMENT INDICATION STANDARD BIDEX AND PAGE NUMBER USES THAN IN BUSINESS DAYS PRIGR TO START OF CONSTRUCTION, WHEN A DIBLECT APPLICATION OF FOOT STANDARD NOCK 400 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL LANS INFLE SEPERABLE DIS A FOOTOM PROFESSIONAL ENGINEER OHS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY FOOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE. PRIOR TO EXCAVATION. THE THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION, THE INFORMATION AND DAYS ABOVEW WITH RESPECT TO EXSTING UNDERGROUND FACILITIES AT OR CONTRIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FUNDED BY THE OWNER AND EXISTED BY THE OWNER AND DESIGN PROFESSIONAL SHALL THE RESPONSIBLE FOR THE ACCURACY AND COMMETERS OF ANY SUCH INFORMATION OF DAYS. THE CONTRACT IS BHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION FOR THE ACCURACY AND COMMETERS OF ANY SUCH PROFESSIONAL SHALL SHALL SHALL SUCH INFORMATION OF DAYS. THE CONTRACT OF SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION FOR THE ACCURACY AND COMPETERS OF ANY SUCH PROFESSIONAL SHALL SHALL SHALL SUCH INFORMATION FOR THE ACCURACY AND CONTRACTOR OF THE ACCURACY AND CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTIONS.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC., THIS SHALL INCLIDE COMPACTION BY DRIWING OR PARKING INSIDE THE ORPLINE AND SPILLING OIL, GASCOLINE, OR OTHER DELETERIOUS MATERIALS SWITHIN THE ORPLINE AND MATERIALS SHALL BE BURNED ON SITE, EXISTING TREES KILLED OR DAMAGED SO THAT THEY ANE MISSHAPEN ANDOR UNSIGHTLY SHALL BE REPORTED FOR THE CHARLES OF THE CONTRACTOR OF HIREE HUMBERS DOLLARS (ROUGH PER CALIFER AND AGRICATOR ON ALL BECAUTED AND ADDITIONAL TWENTY CONTRACTOR OF THE INCLIDIO CONTRACTOR OF THE CHARLES OF THE AND AGRICATOR OF THE ADDITIONAL TWENTY CONTRACTOR OF THE INCLIDIO CONTRACTOR OF THE CHARLES OF THE AND AGRICATOR OF THE ADDITIONAL TWENTY CONTRACTOR OF THE INCLIDIO CHARLES OF THE ADDITIONAL TO THE ADDITIONAL THE

2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE

D, MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER, UPON APPROVAL DELIVERY OF MATERIALS MAY COMMENCE

SAMPLE SIZE ONE (1) CUBIC FOOT ONE (1) CUBIC FOOT ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY) TOPSOIL MIX PLANTS

2. PLANT MATERIALS

- a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS, ALL MURSERY STOCK SHALL BE IN ACCORDANCE WITH DRAWERS AND STAMBLES FOR INCREMENT A DITE. LATEST EDITES PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND ALL PLANTS SHALL BE HEALTHY, WORDOUS, SOUTHO, WELL HEAVINGHES, AND FIVE OF DISEASE AND INSPECTS, INSECTS OF AND INSECTS, INSECTS AND ADVANCED AND SHALL HAVE ADEQUATE ROOT SYSTEMS, TREES FOR PLAYING IN ROWS SHALL BE UNFORM IN SIZE AND SHAPE, ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLAYIN LIST, THE PLAY INRISHED SHALL BE NORMAL FOR THE VANDETY, PLAYIS SHALL BE PRUINCED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNERS.
- b. MEASUREMENTS: THE HEIGHT AND/OR WIOTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR RORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT IS AFFECTIVE PAPPROVED BY THE OWNER. THE OF LARGER PLANTS IS APPROVED, THE GARLT OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.
- c. 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 DUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE OR DURNO PROOFERS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF FROOT BALLS ORTORS, LATENT DEFECTS OR NUILINES, REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (I) THERE PRIOR TO ANTICHATED TO ANTICHATED THE OWNER OF THE CONTRACTOR AT LEAST ONE (I) THERE PRIOR TO ANTICHATED TO ANTICHATED THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW, CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILL FRABLE, AND OF A LOMBY CHARACTER REASONABLY FREE OF SUBSOIL, CLAY MUMPS, BRUSH WEEDS AND OTHER LITTER, FREE OF ROOTS, STUMPS, STOKES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRAHEOUS OF TOXIC MATTER HAMMFUL TO PLANT CROWNER IF SHALL CONTAIN THREE (3) TO FIVE (6) PERCENT DECOMPOSED ORGANIC MATTER AND A PHIETWEEN 5 5 AND 70.
- 2. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATER

- 2 CONTRACTOR SHALL PROVIDE TREEGATOR WATERING BAGS FOR ALL PALMS AND TREES THROUGHOUT THE WARRANTY PERIOD IF PERMANENT OR TEMPORARY IRRIGATION SYSTEM IS NOT AVAILABLE.

* WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY

G EERTH IZED

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE, SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY_

- 1, MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES, CLEAR MULCH, FROM EACH IP, ANTIS CHOWN (BASE), MULCH SHALL BE (FLORIMULGH "EUCALYPTUS MULCH, OR SIMILAR SUSTAINALLY HARVESTED MULCH MULCH MULCHS SPECIFIED OTHERWISE.
- 2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER VINE BED, AND THEE PIT IN MINIMUM PLANTED LINDER THIS CONTRACT.

I DIGGING AND HANDLING

PROTECT ROOTS OR ROOT GALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING PLANT MATERIALS SILL. BE ADEQUIATELY PACKED TO REVENT DAMAGE DURBING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCY (WIL PIPUP OR EQUAL, TO MINIMIZE TRANSPIRANT DAMA. WATER LOSS.

- BALLED AND BURLAPPED (8&8), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS, NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.
- 1. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT
- 4. PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING, CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
- 5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES,

CONTAINER GROWN STOCK

- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH 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 THEIRS RESMS.
- 3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- 4. RPG= *ROOTS PLUS GROWER* CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNERS REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR MINIMUM OF TWO 2) DROWNING SEASONS AND HAVE ATTAINED AGEOLATE ROOT AND TO PROVIDE TO INDICATE FULL RECOVERY PROVIDENTIANS PLANTING INTO THE NURSERY ROW.

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR, QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LUBILITY FOR OWNSIONS OR EARORS, SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANT AND THE PLANT LIST QUANTITY. THE OWNERS REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIODING OR INSTALLATION, ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

- FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LÂWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS, BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE
- THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOO ANDIOR MUICH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND ANDIOR WITH ALL EQUIPMENT MECESSARY INCLUDING A GRADHOT BRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE STIE.
- 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE URAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS, AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS, REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE

- CLEANING UP BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER OALLY, ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS, HESS MATERIALS SHALL NOT BE MIKED WITH THE SOIL SHOULD THE CONTRACTOR FIND SICH SICK COMDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE CONNETS. REPRESENTATIVE, FAULIER TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
- VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND NIS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES, ALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTITACTOR IS RESPONSIBLE TO BACKPILL THESE PLANTING AREAS TO HOUGH FINISHED GRADE WITH CLEAN TOPSOL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE; If LIMEROCK OR THEAR ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL LITLEE FOR FOOD BRAINAGE CONDITION FOR THE CONTRACTOR. AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL LITLEE FOR FOOD BRAINAGE CONDITION FAN THE OFFICE.
- FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT MURSERY OR GROWING SITE.
- COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED, PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HELD IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES
- 4 THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS, COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
- 7. AL PLANTING PTS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USE STANDARD FOR NURSERY STOCK 280.1. UNLESS SHOWN OTHERWISE ON THE DRAWNINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOL MIXTURE AS SPECIFIED IN SECTION. E. TEST ALL THE PET WITH WATER BEFORE PLANTING TO A DASLINE PROPED FORMANDE PERCOLATION IS ANALIBLE, FOR AUXILIBLE, AND AUXILIBLE TO BEFORE PLANTING TO ASSURE PROPED FORMANDE STRESS, UTILIZE POOR DRAWINGS CONDITION PLANTING DETAIL. TREES SHALL BE SET FULLIWED AND ALL DE PETAIL THE STANDARD STRESS OF THE STANDARD STANDARD STRESS OF THE STANDARD STRESS OF THE STANDARD STANDARD STANDARD STRESS OF THE STANDARD STRESS OF THE STANDARD STANDARD STANDARD STRESS OF THE STANDARD ST
- 8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES
- B. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
- 10. TREES AND BHRUISS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT GROWN WILL STAND ONE (1) TO TWO (2) NCHES ABOVE GRADE EACH PLANT SHALL BE SET IN THE CENTER OF THE PT., PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL AND SETTLED BY WATER (AFTER TAMPING).
- AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOWNOCRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION, PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO MOCULATION.
- 12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STRENGIG IS RECESSARY TO GET SOIL THOROUGHLY WET, PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE, DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP BHALL BE POLLED FROM UNDERWEATH.
- 13, TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST. IN ACCORDANCE WITH ANSI A-300.
- SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST.
 MATERIALS INSTALLED SHALL WHICH SET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOW ON PLANS, WHICHEVER IS GREATER. CULTIVATE
 ALL PLANTING AREAS TO A MINIMUM DETHYLOF OF REMOVE AND DISPOSE ALL DEBRIS, MINJ TOP 4"THE PLANTING SOIL MIXTURE AS SPECIFIED IN
 SECTION E, THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
- 16. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN THEES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THEOWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARKLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLAYTED UNIDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
- ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURERS' PRECAUTIONS AND SPECIFICATIONS, PRIOR TO FINAL INSPECTION. TREAT ALL PLANTING SEDS WITH AN APPROVED PRE-EMERGENT HERBIC AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURERS, AS ALLOWED BY JURISDICTIONAL AUTHORITY.

THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.

- ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (5) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HINDRED (1)00) POWINDS PER FOOT OF WITHOUT URBING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE
- 3 PREPARE LOOSE BED FOUR (4) INCHES DEEP HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED, WET PREPARED AREA

- a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- C SOD PARES SHALL BE LAID TRIFTED FOR STATEMENT OF SOLD SOURCE LAWN AREA SOD SHALL BE LAID UNFORMLY AGAINST THE EDOES OF ALL CUBES AND OTHER HANDSCAPE ELEMENTS. PAVED AND PLANTED AREAS, ADJACENT TO BUILDINGS, A 24 INCH STONE MILLON STRIP SHALL BE PROVIDED, IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAUDLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY INRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PARELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN PAPPROVED BY THE OWNERS REPRESENTATIVE, SHALL BE UNFORMLY SHREAD OVER THE STRIPE SHAPE OF THE SOD AND THOROUGHLY WATERDOWN, FERTILIZE INSTALLED SOO AS ALLOWED BY PROPERTY SURSDICTIONAL AUTHORITY.
- 5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE

6. LAWN MAINTENANCE

- a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SOODING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X1") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING RECHAPORD IF INCESSARY).
- b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SODILAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERINGRIRICATION SCHEDULE TO CYMER. OSSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY SURISDICTIONAL AUTHORITY.

CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBIGIS RESULTING FROM HIS WORK, ALL PAYED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPRICADED Y THE OWNER'S REPRESENTATIVE.

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPARKING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CENTRACTOR OF ACCEPTANCE BY THE CONNERS REPRESENTATIVE.

FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE EIRO OF THE WARRANTY PERIOD SYNL, BE ON FAMILING, CONSTRUCTION AND ALL OTHER RIGIDENTA, WORK RESTAINING.
TO TILE CONTROL OF AN REPLACEMENT AT THIS THE SHALL BE SUBJECT TO THE SAME ONE OF 11 YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITHING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HERRIND DESCRIBED.

- THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A WINIMUM OF ONE (I.) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNERS REPRESENTATION.
- ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT, ALL REPLACEMENTS SHALL BE FLANTS OF THE SAME KNO AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE UNINISHED PLANTED AND MIXTURED AS SPECIFIED AN TO ADDITIONAL COST TO THE OWNED
- IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (I) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, CONTRACTOR SHALL NOTHEY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREAT IEN VIGOROUS AND HEALTHY PLANT GROWTH, SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF THEILVE (12) MONTH FROM THE DATE OF ACCEPTANCE.



Hori S.J ATES, OCALA, 200 200 3000 CA 0 Kimley



NOT Ш CAP \tilde{S}

ORIDA CONVALESCENT CENTERS, INC. OF GAINESVILLE
PREPARED FOR

> SHEET NUMBER LS-251

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SOLID STATE BOLLARDS

BRA SERIES-LED

SPECIFICATIONS

BOLLARD

Durable corrosion resistant extruded and cast aluminum construction. ¼" wall thickness.

LED POWER ARRAY™

Three-dimensional array consisting of 6 individual LED tubes for the BDA8 model and 4 individual LED tubes for the BDA6 model, which are fastened to a retaining plate equally spaced to provide 360° of even illumination output. Each LED tube consists of a circuit board populated with a multiple of LED's which is fastened to a radial aluminum heat sink. A white polycarbonate lens and end caps protect each LED tube's internal components and provides diffusion to prevent shadowing and striations.

INTERNAL LOUVER (IL) - A specular louver stack conceals the inner LED Power Array Module and provides uplight and glare control through the external clear polycarbonate lens.

CAST LOUVER (CL) - External cast aluminum louver stack protects the internal LED Power Array Module and provides uplight and glare control. An internal clear polycarbonate lens is integrated with the LED Power Array Module.

OPAL LENS (WP) - Exterior white polycarbonate lens protects the internal LED Power Array Module and provides a uniform white glow.

RADIAL LED MODULE

LED'S are mounted to a circular heatsink in a radial array. The radial LED module is concealed in the cap of the bollard. LED's are not directly visible from angles above 90°.

PARABOLIC REFLECTOR (TR) - A specular Parabolic Reflector reflects a portion of the distribution from the radial LED module and provides a uniform wide angle throw through the outer clear polycarbonate lens.

LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

UL and CUL recognized Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for (347-480VAC). Driver is mechanically fastened to a retaining bracket. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimmable and High-Low Driver options available.

FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

PROJECT NAME:

FIXTURE TYPE:

SB1: BRA6-IL-24LED-NW

SB2: BRA6-IL-24LED-NW-HS180



BRA

BRAS SHOWN WITH -TR OPTICS

PATENT PENDING





| BOLLARD | A | В | C | D |
|---------|--------|-----------|-----------|------------|
| BRA8 | 42" | 8" | 6" | 8" |
| | 1067mm | 203mm | 152mm | 203mm |
| BRA6 | 42" | 6" | 4" | 6 " |
| | 1067mm | 152mm | 102mm | 152mm |





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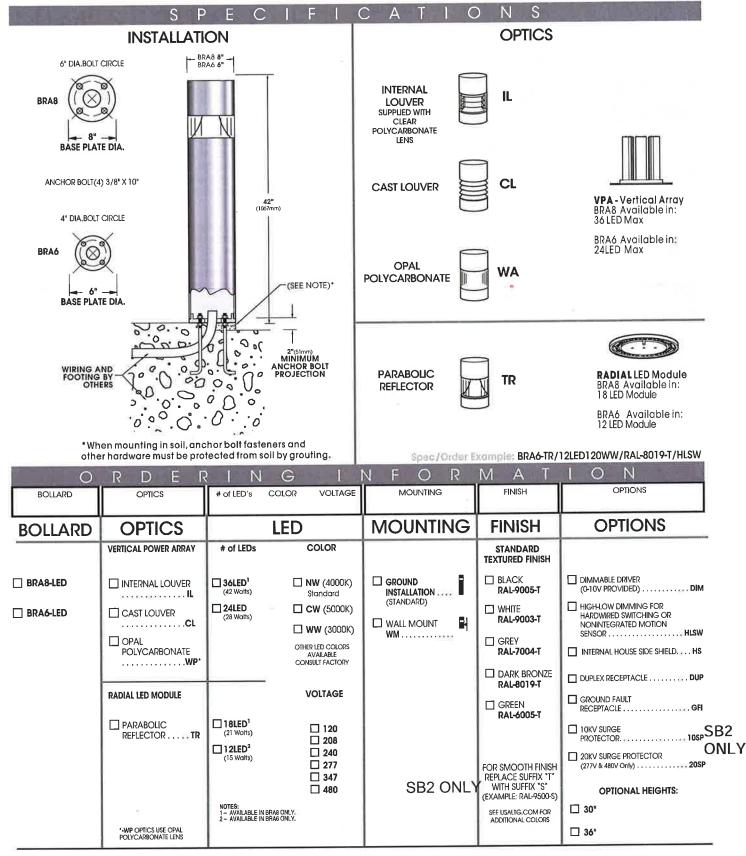


Phone (661) 233-2000 Fax (661) 233-2001

www.usalig.com



BRA SERIES-LED



LUM SERIES - PLED

PLED™ MODULES WALL MOUNT POLE DRILLING TEMPLATE 16" DIA. 2" (51mm) 1.25" (32mm) 2.75" (70mm) WIREWAY 563" DIA. (14mm) 406" DIA. (10mm) (3) HOLES **LUM PLED** E.P.A.= 1.12 Available in: 80 &40 LED Array EXTRUDED ALUMINUM ARM AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION. Drive WALL PLATE No. of LEDs Current 350mA 525mA 40

(140mm)

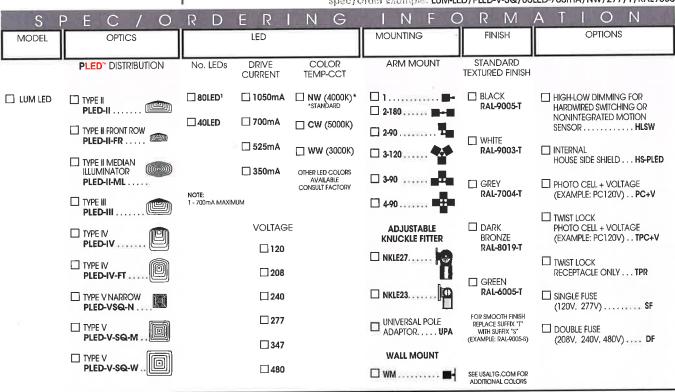
7" SQ

HID System Watts Equivalent 70 - 100 45 100 - 150 66 700mA 91 175 200 - 250 1050mA 142 92 150 - 175 350mA 200 - 250 80 525mA 136 700mA 184 400

80 LED Array

40 LED Array

Spac/Order Example: LUM-LED/PLED-V-SQ/80LED-700mA/NW/277/1/RAL9005



5.5" (140mm)

> .50" DIA. (13mm) (4) HOLES

| LED | SOURCE TYPE | SOURCE | INITIAL LUMENS - 4000K | INITIAL LUMENS - 3000K | INITIAL LUMENS - 5000K | L70 GREATER THAN (HR) | STARTING TEMP. | SYSTEM WATTS | VOLTS | MAX INPUT AMPS |
|-----|----------------|--|------------------------------|------------------------------|------------------------------|--------------------------|-------------------|--------------|------------|-------------------|
| 40 | LED | 40 PLED Optical Module - 350mA | 5,077 - 5,464 | 4,445 - 4,784 | 5,199 - 5,595 | 60,000+ | -20°F | 45 | 120 277 | 0.38 0.17 |
| 40 | LED | 40 PLED° Optical Module - 525mA | 6,977 - 7,507 | 6,108 - 6,573 | 7,144 - 7,687 | 60,000+ | -20°F | 66 | 120 277 | 0.58 0.25 |
| 40 | LED | 40 PLED® Optical Module - 700mA | 8,425 - 9,067 | 7,376 - 7,938 | 8,627 - 9,285 | 60,000+ | -20°F | 91 | 120 277 | 0.76 0.33 |
| 40 | LED | 40 PLED° Optical Module - 1050mA | 10,956 - 11,792 | 9,592 - 10,324 | 11,219 - 12,075 | 60,000+ | -20°F | 142 | 120 277 | 1.19 0.52 |
| 80 | LED | 80 PLED ° Optical Module - 350mA | 10,153 - 10,926 | 8,889 - 9,566 | 10,397 - 11,188 | 60,000+ | -20°F | 92 | 120 277 | 0.77 0.34 |
| 80 | LED | 80 PLED° Optical Module - 525mA | 13,952 = 15,015 | 12,215 - 13,146 | 14,287 - 15,376 | 60,000+ | -20°F | 136 | 120 277 | 1.14 0.50 |
| 80 | LED | 80 PLED° Optical Module - 700mA | 16,851 = 18,139 | 14,752 - 15,877 | 17,254 - 18,570 | 60,000+ | -20°F | 184 | 120 277 | 1.54 0.67 |

NOTES:

- Max Input Amps is the highest of starting, operating, or open circuit currents
- 2. Lumen values for LED Modules vary according to the distribution type
- 3. System Watts Includes the source watts and all driver components.
- 4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 10KV 20KV surge suppressors.
- 5. L70(9K) -TM-21 6x rule applied

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code, Failure to do so may result in serious personal injury.



SOLID STATE AREA LIGHTING

COLONIAL SERIES-LED

SPECIFICATIONS

HOUSING

Durable, corrosion resistant, heavy cast low copper aluminum assembly (A356 alloy, <0.2% copper). Minimum wall thickness is .188". Traditional styling of the housing provided with cast aluminum housing top hinges for easy access. All hardware is stainless steel.

VLED OPTICAL MODULE (Dark Sky Compliant-Full Cutoff) Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III. IV. and V-SQ distributions. The entire VLED Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each or 525mA (COL21 and COL18 only) for nominal 1.5 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

PROJECT NAME: Palm Garden - Gainesville

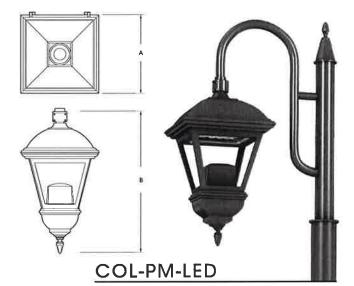
FIXTURE TYPE: SP1

COL18-LED-V-SQ-64LED-PT-DB-10SP



PATENT PENDING
Fitter supplied to fit over 2 1/s* X 3* (73mm x 76mm) lennon.

| FIXTURE | A | В |
|-----------|---------------------|---------------|
| COL21-LED | 21" 533mm | 35" 889mm |
| COL18-LED | 18" 457mm | 31 " 787mm |
| COL12-LED | 1.2" 305mm | 22" 559mm |



PATENT PENDING

| FIXTURE | A | В |
|--------------|--------------|------------------------------|
| COL21-PM-LED | 21" 553mm | 36" 914mm |
| COL18-PM-LED | 18" 457mm | 32.5" 826mm |
| COL12-PM-LED | 12" 305mm | 24" 610 m m |







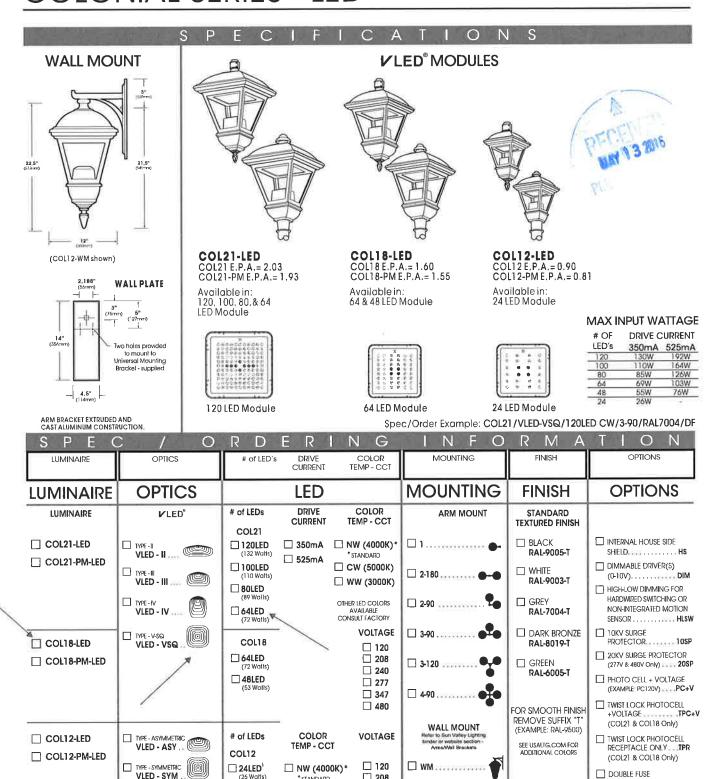
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660 West Avenue O, Palmdole, CA 93551 Phone (661) 233-2000 Fax (661) 233-2001 www.usallg.com



COLONIAL SERIES - LED



208

240

277

□ 347

□ 480

POST TOP

STANDARD

☐ CW (5000K)

☐ WW (3000K)

OTHER LED COLORS AVAILABLE CONSULT FACTORY

Sun Valley Lighting

660 West Avenue O. Palmdale, CA 93551 Phone (661) 233-2000 Fax (661) 233-2001 www.usallg.com

NOTES: 1 – 350mA ONLY



☐ DOUBLE FUSE

(208V, 240V) DF

SOLID STATE AREA LIGHTING

COLONIAL-WA SERIES-LED

SPECIFICATIONS

LUMINAIRE

Four piece opal white acrylic lenses provided with heavy cast low copper aluminum corrosion resistant (A356 alloy, <0.2% copper) traditionally styled housing and top. Minimum wall thickness is .188". Top hinges for easy access. Silicone gasket between housing and hood. All hardware is stainless steel.

LED POWER ARRAY™

Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic Lens and end cap protects each LED Tube's internal components.

VERTICAL POWER ARRAY™: LED Tubes are aligned vertically and equally arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with an opal smooth acrylic diffusing lens.

LED EMITTERS

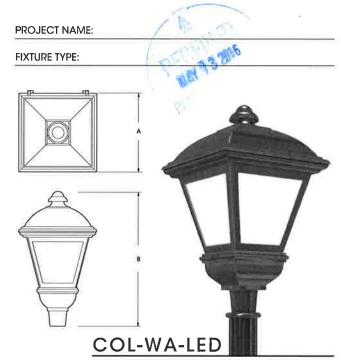
High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

FINISH

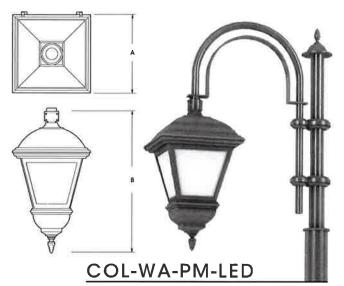
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.



PATENT PENDING

Filter supplied to fit over 2 1/s" X 3" (73mm X 76mm) tennon,

| FIXTURE | . A | В |
|--------------|---------------|--------------|
| COL21-WA-LED | 21" 533mm | 35" 889mm |
| COL18-WA-LED | 1.8" 457mm | 31" 787mm |
| COL12-WA-LED | 12" 305mm | 22" 559mm |



PATENT PENDING

| FIXTURE | A | В |
|-----------------|--------------|----------------------|
| COL21-PM-WA-LED | 21" 553mm | 36" 914mm |
| COL18-PM-WA-LED | 18" 457mm | 32.5" 826mm |
| COL12-PM-WA-LED | 12" 305mm | 24 " 610mm |





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COLONIAL-WA SERIES - LED

WALL MOUNT LED POWER ARRAY™ MODULES 22.5 VPA - Vertical Array Base mount (COL12-WM shown) WALLPLATE **COL18-WA-LED**COL18 E.P.A.= 2.35 COL18-PM E.P.A.= 2.30 COL12-WA-LED COL21-WA-LED COL12 E.P.A.= 1.12 COL12-PM E.P.A.= 1.13 COL21 E.P.A.= 3.02 COL21-PM E.P.A.= 2.93 ANGLED POWER ARRAY ANGLED POWER ARRAY VERTICAL ARRAY 14* (356mn 24 LED Max. Two holes provided to mount to Universal Mounting Bracket - supplied ARM BRACKET EXTRUDED AND

Spec/Order Example: COL12-WA/VP-V/64LED NW/2-180/RAL8019/TPR

| CAST ALUMINUM CONSTRUCTION. | | Spec/Order Example: COL12-WA/VP-V/64LED NW/2-180/RAL8019/TPR | | | | | | |
|-----------------------------|---------------------------|--|--|-------------------------|--|--|--|--|
| SPEC | C / O | R D | E R I 1 | ۷ G | INFO | RMA | TION | |
| LUMINAIRE | OPTICS | # of LED's | COLOR | VOLTAGE | MOUNTING | FINISH | OPTIONS | |
| LUMINAIRE | OPTICS | | LED | | MOUNTING | FINISH | OPTIONS | |
| LUMINAIRE | VERTICAL POWER ARRAY | # of LEDs COL21-WA | COLOR TEMP - CCT | VOLTAGE | ARM MOUNT | STANDARD TEXTURED FINISH | | |
| ☐ COL21-WA-LED | Type - ASYMMETRIC VPA-SYM | 80LED (89 Waffs) | NW (4000K)* | □ 208 | □ 1 | ☐ BLACK RAL-9005-T | ☐ HOUSE SIDE SHIELD HS ☐ DIMMABLE DRIVER(S) | |
| _ COLZI-I III-WA-LLD | | ☐ 64LED (69 Walls) ☐ 48LED | ☐ CW (5000K) ☐ WW (3000K) | ☐ 240 ☐ 277 ☐ 347 | 2-180 | ☐ WHITE RAL-9003-T | (0-10V) | |
| | | (55 Walls) 36LED (40 Walls) | OTHER LED COLORS AVAILABLE CONSULT FACTORY | □ 480 | 2-90 | GREY RAL-7004-T | NON-INTEGRATED MOTION SENSOR | |
| COL18-WA-LED | | COL18-WA | | | 3-90 | DARK BRONZE RAL-8019-T | PROTECTOR. 10SP 20KV SURGE PROTECTOR | |
| ☐ COL18-PM-WA-LED | | 69 Watts) | | | 3-120 | GREEN RAL-6005-T | (277V & 480V Only) 20SP PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) PC+V | |
| | | (53 Watts) 36LED (40 Watts) | | | 4-90 | FOR SMOOTH FINISH | TWIST LOCK PHOTOCELL +VOLTAGETPC+V (COL21 & COL18 Only) | |
| ☐ COL12-WA-LED | | COL12-WA | | | WALL MOUNT Reler to Sun Valley Lighling binder or website section - Arms/Wall Brackets | REMOVE SUFFIX "T" (EXAMPLE: RAL-9500) SEE USALTG.COM FOR | TWIST LOCK PHOTOCELL RECEPTACLE ONLY TPR | |
| COL12-PM-WA-LED | | 24LED (26 Walls) | | | □ wm | ADDITIONAL COLORS | SINGLE FUSE (120V, 277V) SF | |
| | | (14 Walls) | | | POST TOP | | (208V, 240V) DF OPAL POLYCARBONATE | |
| | | | | | PT | | DIFFUSER, WP | |

SOLID STATE AREA LIGHTING

COLONIAL-CPA SERIES-LED

SPECIFICATIONS

LUMINAIRE

Four piece clear patterned acrylic lenses provided with heavy cast corrosion resistant low copper aluminum (A356 alloy, <0.2% copper) traditionally styled housing and top. Minimum wall thickness is .188". Top hinges for easy access. Silicone gasket between housing and hood. All hardware is stainless steel.

LED POWER ARRAY™

Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic Lens and end cap protects each LED Tube's internal components.

ANGLED POWER ARRAY™: Micro-Reflectors mounted around each LED control the raw light output. LED Tubes are uniquely aimed horizontally and vertically and arrayed to produce highly efficient IES Distribution Types II, III, IV and V. Used in conjunction with a clear patterned acrylic lens.

VERTICAL POWER ARRAY™ WITH GLASS REFRACTOR: LED Tubes are aligned vertically and equally arranged radially to produce an even raw light distribution that simulates standard light sources. Array is secured within a 6" Prismatic Glass Refractor which provides the optical control. Used in conjunction with clear smooth or clear patterned lenses.

VERTICAL POWER ARRAY™: LED Tubes are aligned vertically and equally arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with a clear patterned acrylic.

LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

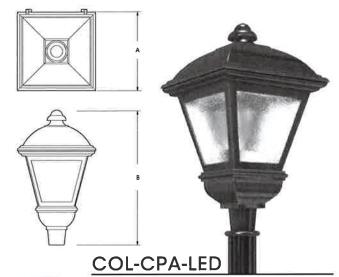
UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

PROJECT NAME:

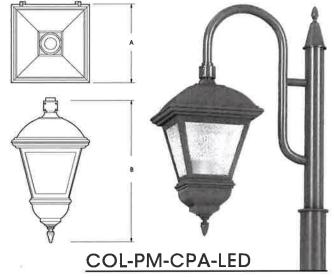
FIXTURE TYPE:



PATENT PENDING

Fitler supplied to fit over 2 7/s" X 3" (73mm X 76mm) tenno

| The supplied to it over 2 /s x 3 (/aminix/onlin) lettron | | | | | |
|--|---------------|---------------|--|--|--|
| FIXTURE | A | В | | | |
| COL21-CPA-LED | 21" 533mm | 35" 889mm | | | |
| COL18-CPA-LED | 1.8" 457mm | 31 " 787mm | | | |
| COL12-CPA-LED | 12" | 22" 550mm | | | |



PATENT PENDING

| FIXTURE | A | В | |
|------------------|-----------------------|----------------|--|
| COL21-PM-CPA-LED | 21" 553mm | 36" 914mm | |
| COL18-PM-CPA-LED | 1 8 " 457mm | 32.5" 826mm | |
| COL12-PM-CPA-LED | 12" 305mm | 24" 610mm | |





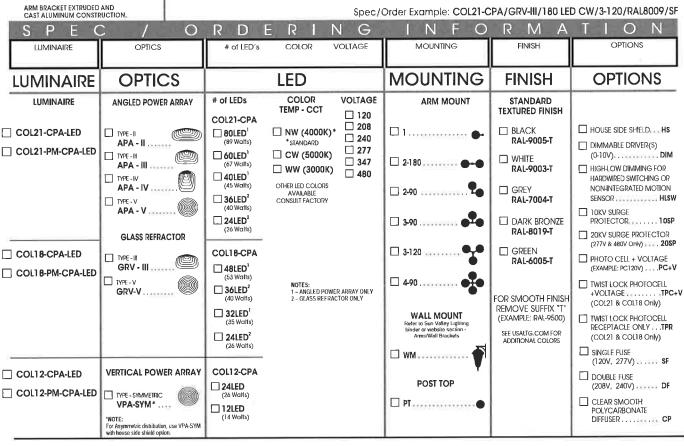
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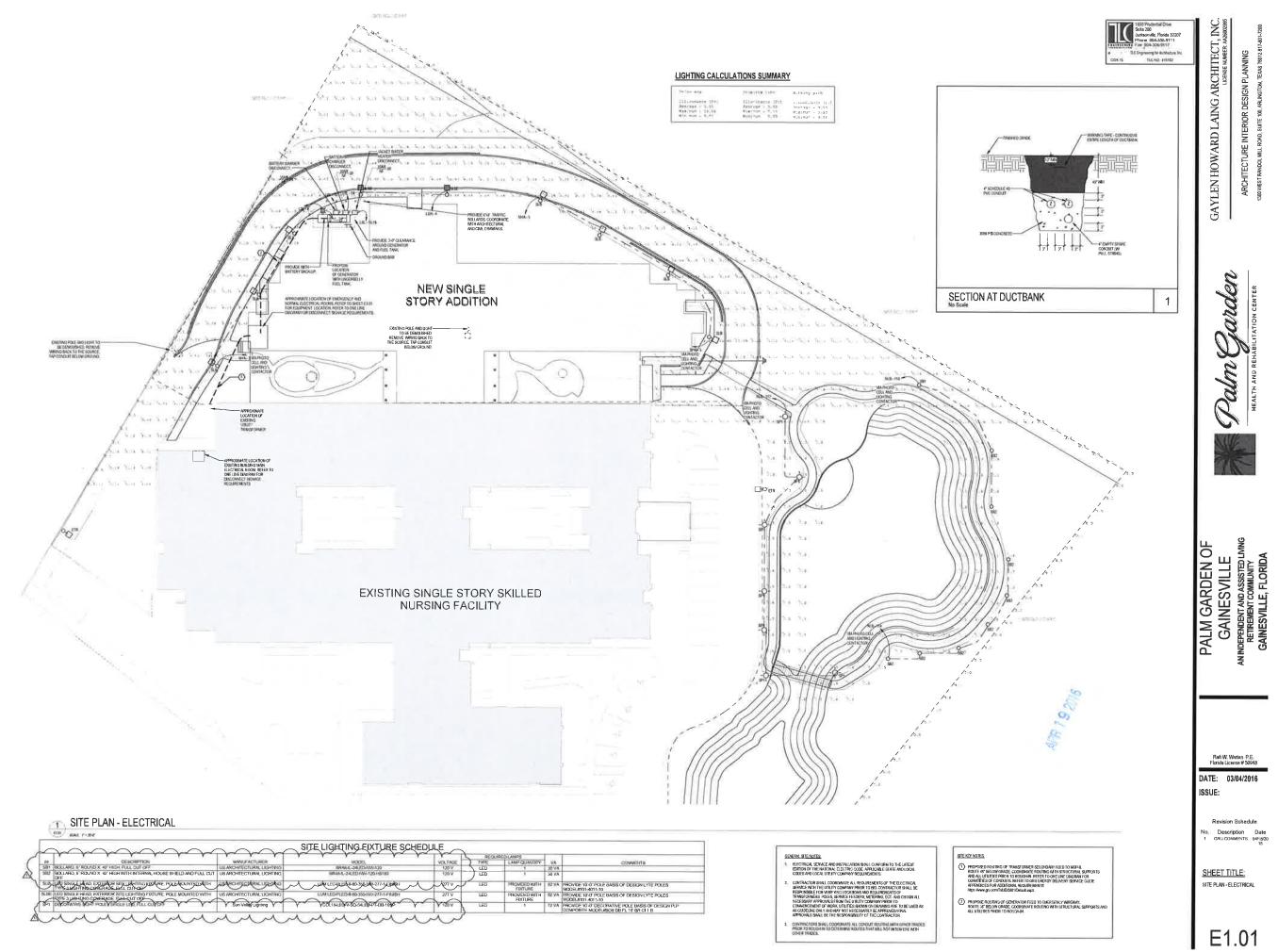


COLONIAL-CPA SERIES - LED



Spec/Order Example: COL21-CPA/GRV-III/180 LED CW/3-120/RAL8009/SF





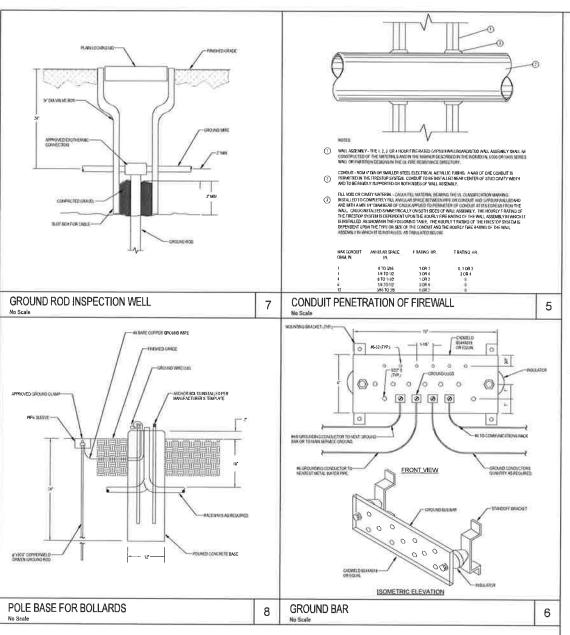
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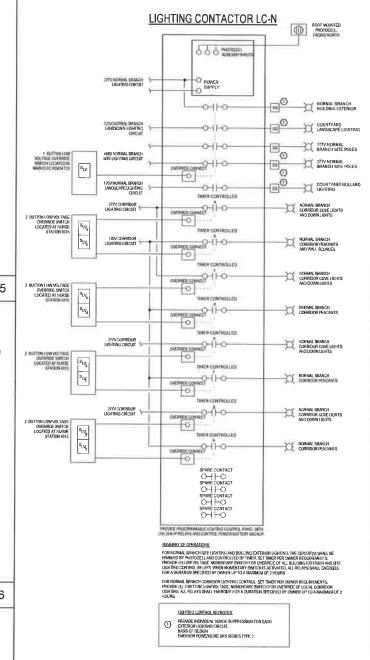
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Palmed

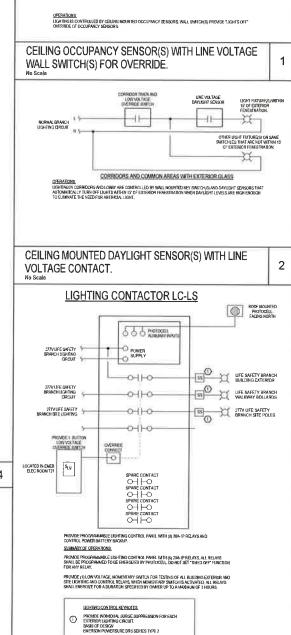
GAYLEN HOWARD LAING ARCHITECT, INC

Palm Garden

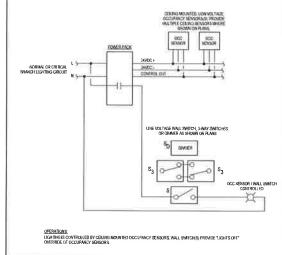


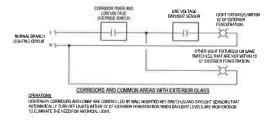


NORMAL BRANCH - EXTERIOR AND INTERIOR LIGHTING CONTROL



LIFE SAFETY BRANCH - EXTERIOR LIGHTING CONTROL





PALM GARDEN OF
GAINESVILLE
AN INDEPENDENT AND ASSISTED LYNNG
RETREMENT COMMUNITY
GAINESVILLE, FLORIDA

Refi W. Wartan, P.E. Florida License # 50948 DATE: 03/04/2016 ISSUE:

SHEET TITLE: ELECTRICAL DETAILS

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E6.01

GAYLEN HOWARD LAING ARCHITECT, INC.

UCBNSE NIMBER
ARCHITECTURE INTERIOR DESIGN PLANNING
1300 MEST RANDOL MILL ROMD, SUITE 100, ARLINGTON, ITSMS TRANDOL MILL ROMD.

Palm Garden
HEALTH AND REHABILITATION CENTER

PALM GARDEN OF
GAINESVILLE
AN INDEPENDENT AND ASSISTED LIVING
RETREMENT COMMUNITY
GAINESVILLE, FLORIDA



DATE: 12/11/2015
ISSUE:
DESIGN DEVELOPMENT

Revision Schedule No Description Date

SHEET TITLE:

EXTERIOR ELEVATIONS

A6.01