



SECTION 13, TOWNSHIP 19 SOUTH, RANGE 25 EAST
LAKE COUNTY, FLORIDA
09/02/2022



AERIAL PHOTOGRAPH
N.T.S.

PARCEL 5

[illegible]

PARCEL 3

PARCEL NO. 179 - SECTION 11509-2601
WATER STORAGE AREA LEFT (WEST) STATION 81+45.4

THAT PART OF

THAT PART OF:
 "BEGIN AT THE NORTHWEST CORNER OF THE SOUTHWEST 1/4 OF THE NORTH-WEST 1/4 OF SECTION 13, TOWNSHIP 19 SOUTH, RANGE 25 EAST, IN LAKE COUNTY, FLORIDA
 RUN SOUTH WITH THE SECTION LINE OF THE SAID SECTION 13, A DISTANCE OF 166 FEET TO A CONCRETE MARKER OF THE POINT OF BEGINNING, THENCE RUN EAST AND
 PARALLEL WITH THE NORTH 40 LINE 374 FEET TO A CONCRETE MARKER IN THE WEST MARGIN OF COUNTY ROAD, THENCE RUN SOUTH WITH THE WEST MARGIN OF
 THE SAID COUNTY ROAD 1154 FEET MORE OR LESS TO THE SOUTH BOUNDARY OF THE SAID SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SAID SECTION 13, RUN WEST 374
 FEET TO THE WEST SECTION LINE OF THE SAID SECTION 13, THENCE RUN NORTH WITH THE SAID SECTION LINE TO THE POINT OF BEGINNING."

LYING WITHIN THE FOLLOWING DESCRIBED BOUNDARIES:

COMMENCE ON THE SOUTH LINE OF THE NW 1/4 OF SECTION 13, TOWNSHIP 19 SOUTH, RANGE 25 EAST; AT A POINT 406.95 FEET EAST OF THE SOUTHWEST CORNER OF SAID NW 1/4 OF SECTION 13; THENCE RUN NORTH 02°53'4" EAST, A DISTANCE OF 329.04 FEET TO THE BEGINNING OF A CURVE CONCAVE WESTERLY, HAVING A RADIUS OF 1146.28 FEET;

THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 06°54'07", A DISTANCE OF 138.04 FEET TO STATION 81+.

NORTH 05°43'51" WEST, A DISTANCE OF 406.58 FEET; THENCE RUN NORTH 01°15'09" EAST, A DISTANCE OF 200 FEET; THENCE SOUTH 05°43'51" EAST, A DISTANCE OF 300.33 FEET TO STATION 34+50.38, ON THE CENTER LINE OF SURVEY OF STATE ROAD 5-473, SECTION 11509, BEING ON A CURVE CONCAVE WESTERLY, HAVING A RADIUS OF 1148.28 FEET; THENCE SOUTHWESTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 10°14'56", A DISTANCE OF 204.98 FEET TO THE POINT OF BEGINNING.

CONTAINING 68,066 SQUARE FEET, (1.566 ACRES), MORE OR LESS,
EXCLUSIVE OF AREA IN ROAD RIGHT OF WAY.

WATER:

CITY OF LEESBURG

POWER.

SECO
50 WEST ARDICE AVENUE
EUSTIS, FL 32726
PHONE: (352) 357-5600

TELEPHONE-

CENTURY LINK
15241 OAKLAND AVENUE
WINTER GARDEN, FL 34787
PHONE: (407) 785-6901

SANITARY SEWER.

SEPTIC AND DRAINFIELD



LOCATION MAP

NTS

PROJECT TEAM

LANDSCAPE ARCHITECT
KIMLEY-HORN AND ASSOCIATES, INC.
189 SOUTH ORANGE AVENUE, SUITE 1000
ORLANDO, FL 32801
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CIVIL ENGINEER

CIVIL ENGINEER
HALFF ASSOCIATES, INC.
902 NORTH SINCLAIR AVENUE
TAVARES, FLORIDA 32778
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OWNER

OWNER
LAKE COUNTY BCC
315 WEST MAIN STREET
P.O. BOX 7800
TAVARES, FL 3778
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PHONE: (352) 253-4976

PREPARED BY
Kimley»Horn

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WWW.KIMLEY-HORN.COM CA 0000696

Sheet Title

SHEET LIST



Sheet Number

| | |
|-------|--------------------------------|
| L0.00 | COVER SHEET |
| L0.50 | TREE MITIGATION PLAN |
| L0.51 | TREE MITIGATION DATA |
| L0.52 | TREE MITIGATION SPECIFICATIONS |
| L1.00 | LANDSCAPE PLAN |
| L1.50 | LANDSCAPE DETAILS |
| L1.51 | LANDSCAPE SPECIFICATIONS |
| L2.00 | IRRIGATION PLAN |
| L2.50 | IRRIGATION DETAILS |
| L2.51 | IRRIGATION SPECIFICATIONS |

[illegible]

LAKE COUNTY FIRE STATION 71
LANDSCAPE ARCHITECT'S
PROJECT No. 049550002

KATELYN N. MCKENNA
NO. LA6667426

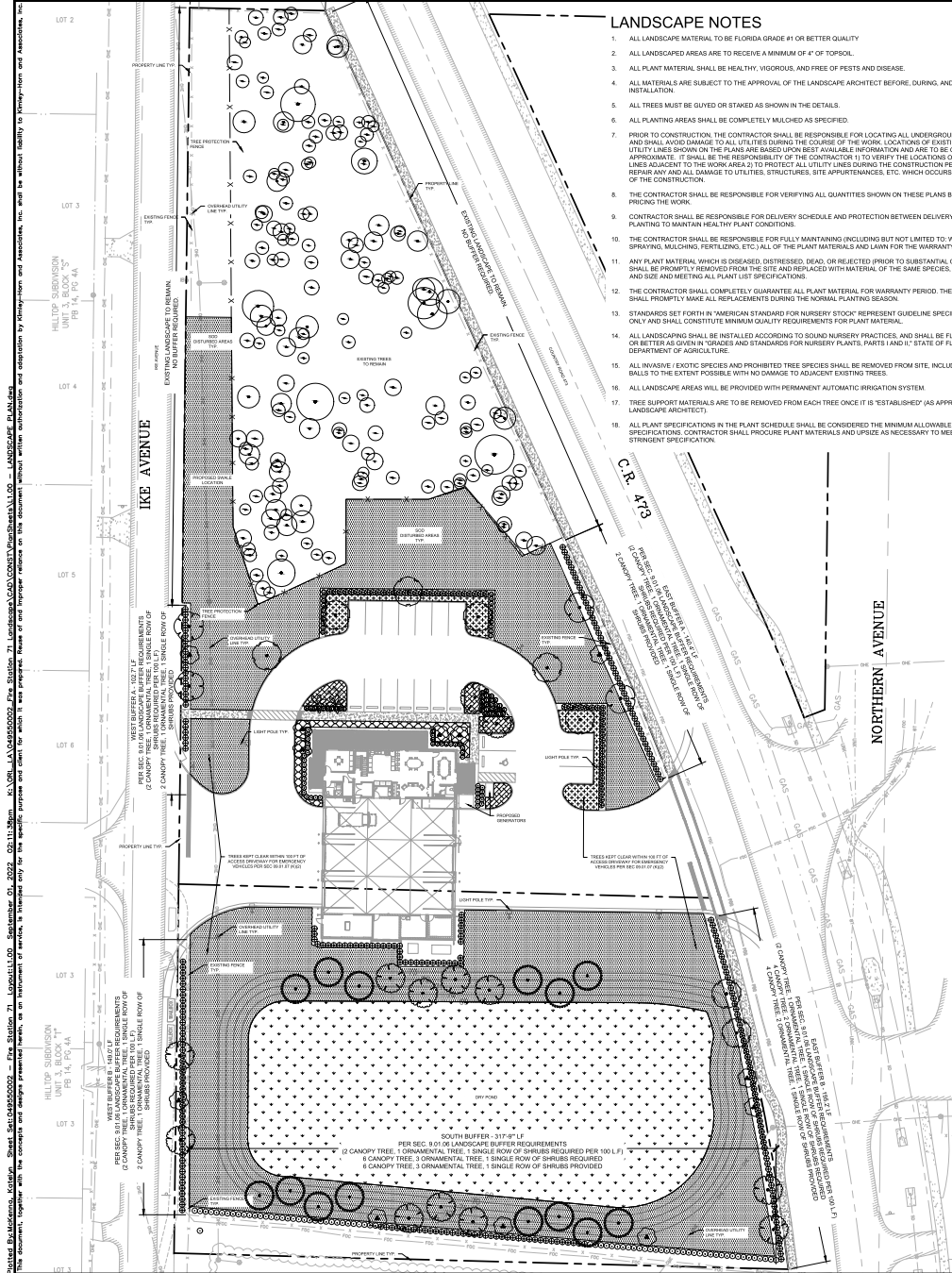
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|---|--|
| SHEET NUMBER | L0.51 |
| LAKE COUNTY FIRE STATION 71 | FLORIDA |
| TREE MITIGATION DATA | KMA PROJECT 049550002 |
| DATE 09/02/2022 | DIGITALLY SIGNED BY  |
| SCALE AS SHOWN | U-6667426 |
| DESIGNED BY AL | STATE OF FLORIDA |
| DRAWN BY AL | CITY OF ORLANDO |
| CHECKED BY | DATE 9/7/2022 |
| LAKE COUNTY | FLORIDA |
|  <p>Kimley»Horn © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. GRANDE AVENUE SUITE 1000, ORLANDO, FL 32801 WWW.KIMLEY-HORN.COM REGISTRY No. 35106</p> | |
| No. | PERMIT COMMENT RESPONSE II |
| REVISIONS | DATE |
| BY | DATE |
| | 10/02/22/KHA |

TREE MITIGATION SPECIFICATIONS

- GENERAL
 1. CONTRACTOR SHALL ADHERE TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OF COTUI ZONING CODE, THE PROTECTION LATEST EDITION, WHICHEVER IS MORE STRINGENT SHALL APPLY.
 2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE TREE PROTECTION PROJECT PRIOR TO BEGINNING WORK.
 3. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETAIL SOIL DISTURBANCE.
 4. NO SIGN, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM. GUY WIRES OR SIGNAGE SHALL BE EXCLUDED FROM THE PROHIBITED ZONE.
 5. EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
 6. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY. CONTRACTOR MUST FIRST HAVE PROTECTION CONTRACT TO CONSTRUCTION. ANY TREE REMOVAL OR CUTOFF TO BE REMOVED TREE OR PALM MUST FIRST HAVE PROVIDED A PERMIT AS PROVIDED BY THE APPROPRIATE PERMITTING AGENCY.
 7. FOR PROTECTED TREES OR PALMS BEING REMOVED, THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE NOTICE TO REMOVE THE TREES DESIGNED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE.
 8. CONTRACTOR IS RESPONSIBLE FOR POSSESSING ALL REQUIRED APPLICATOR LICENSES, BUSINESS REGISTRATIONS AND INSURANCE, PESTICIDE LABELS, AND MATERIAL DATA SAFETY SHEETS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR HAVING ALL APPLICATORS TO REMOVE TREES DESIGNED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE.
 9. WHERE TRAFFIC AREAS ARE PROPOSED WITHIN THE DRIP LINE OF PROTECTED TREES AND LESS THAN 4(4) INCHES OF GRADE CHANGE ARE PROPOSED, PERMEABLE SURFACES THAT ALLOW WATER TO INFILTRATE INTO THE SOIL SHOULD BE USED INSTEAD OF ASPHALT OR OTHER SUCH IMPERMEABLE SURFACES.
 10. TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN FOUR INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARCHITECT.
 11. THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF THE REMAINING TREES AND SHALL BE COORDINATED WITH THE OWNER SELECTED PROJECT ARCHITECT. THE DESIRED SEQUENCE IS OUTLINED BELOW:
 - a. TREE PROTECTION FENCING.
 - b. ROOT PRUNING AND ROOT BARRIERS.
 - c. CLEARING.
 - d. TREE CANOPY PRUNING.
 - e. FERTILIZATION.
 - f. INSECTICIDE.
 - g. IRRIGATION.
 12. TREE PROTECTION FENCING
 - a. PRIOR TO THE ERECTION OF ANY TREE PROTECTION FENCING, ALL FOREIGN SURFACE MATERIAL, TRASH OR DEBRIS MUST BE REMOVED FROM THE AREA TO BE ENCLOSED BY THE FENCING. AFTER ERECTION OF THE FENCING NO SUCH MATERIAL OR LITTER SHALL BE PERMITTED TO REMAIN WITHIN THE PROTECTED AREA.
 - b. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTED TREE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
 - c. NATIVE GRASS COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THROUGHOUT CONSTRUCTION. OTHER DESIGNATED VEGETATION AND INVASIVE PLANT SPECIES SHALL BE REMOVED ONLY BY MANUAL LABOR UTILIZING HAND TOOLS, OR BY OTHER METHODS APPROVED BY THE PROJECT ARCHITECT.
 - d. TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE TREE MITIGATION PLANS AND DETAILS, OR AS REQUESTED BY LOCAL AGENCIES.
 - e. FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARCHITECT.
 - f. NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PROTECTION ZONE.
 - g. EROSION CONTROL, DEVICES SUCH AS SILT FENCING, DEBRIS BASINS, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT SLASH OR DEBRIS FROM ENTERING WITHIN THE TREE PROTECTION ZONE.
 - h. CONSTRUCTION ACTIVITY SHALL NOT DESTROY OR UNREPAIR/VIOLATE THE ROOT SYSTEM OF PROTECTED TREES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
 - i. DO NOT INSTALL, CONDUIT, DRAIN OR IRRIGATION LINES, OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ARCHITECT. IF LINES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED OR BORED UNDER THE TREE.
 - j. CONTRACTORS ACCESS TO FENCED TREE PROTECTION AREAS WILL BE PERMITTED ONLY WITH APPROVAL OF THE PROJECT ARCHITECT.
 - k. EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (3) INCHES OF CUT OR FILL. COORDINATE WITH PROJECT ARCHITECT.
 - l. STRUCTURES AND UNDERGROUND FEATURES TO BE REMOVED WITHIN THE TREE PROTECTION ZONE SHALL BE COORDINATED WITH THE PROJECT ARCHITECT.
 - m. TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE ERECTED UNTIL THE TREE IS READY TO BE RELOCATED. THE FENCING SHALL BE ERECTED AT THE TREES NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.
 - n. IF ANY DAMAGE TO TREE PROTECTION FENCING SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS.
 - o. IF TEMPORARY WALL OR ACCESS ROAD MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (6) INCHES OF MULCH OR GRAVEL SHALL BE CREATED TO PROTECT THE SOIL. THE ROAD BED MATERIAL SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A SIX (6) INCH BED AT ALL TIMES. CONTRACTOR SHALL REMOVE ALL SUCH MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER NECESSARY.
 - p. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARCHITECT PRIOR TO THE REMOVAL OF ALL TREE PROTECTION FENCING.
 13. ROOT PRUNING/TRENCHING
 - a. TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARCHITECT.
 - b. TRENCHING EQUIPMENT THAT WILL TURN AT HIGH RPM'S IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARCHITECT. APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT PRUNING OPERATIONS. A MINIMUM DEPTH OF THREE FEET IS REQUIRED.
 - c. INSTALL ROOT BARRIER WHERE DESIGNATED. SEE TREE MITIGATION PLAN AND DETAILS SHEETS.
 - d. THE TRENCH SHALL BE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATELY.
 - e. TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF TWELVE (12) WEEKS PRIOR TO TREE RELOCATION.
 - f. WHEN THE TREE ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.
 14. CLEARING
 - a. ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPANIED WITH HAND-OPERATED EQUIPMENT.
 - b. CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF WEEDS, SHRUBS, GRASS, COVER CROPS, WEEDS, SUNKING, AND MANWEEDS PRIOR TO THE LATEST EDITION OF THE F.A.W. TREE REMOVAL GUIDE. USE OF PNEUMATIC SPRINGERS.
 - c. PROJECT ARCHITECT MUST APPROVE METHODS OTHER THAN HAND CLEARING.
 15. TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE SITE CLEARING PHASE.
 16. TREE CANOPY PRUNING
 - a. TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARCHITECT. INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDE LINE.
 - b. CONTRACTOR SHALL VISIT THE SITE WITH THE PROJECT ARCHITECT TO VERIFY THE EXTENT OF REQUIRED PRUNING.
 - c. ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED INTERNATIONAL SOCIETY OF ARBORISTS (ISA) OR THE PROJECT ARCHITECT OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORIST (RCA).
 - d. AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CERTIFIED ARBORIST.
 - e. WHILE IN THE TREE, THE ARBORIST SHALL PERFORM AN AERIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER PRIOR TO THE END OF THE WORK DAY.
 - f. PRUNING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI A300 PRUNING STANDARD (AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI Z39.1 SAFETY STANDARDS. PRUNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SASI "BEST MANAGEMENT PRACTICES, TREE PRUNING".
 - g. WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE AREA.
 - h. NO MORE THAN 25 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITH ANY TREE.
 - i. ALL TREES WITHIN THE PROTECTED AREA SHALL BE PRUNED AS FOLLOWS:
 - a. LIVE BRANCH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF INSECT OR DISEASE INFESTATION IS NOT PRESENT.
 - b. REMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.
 - c. CLEANING, FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARCHITECT.
 - d. PRUNING CUTS LARGER THAN A INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
 - e. PRUNING CUTS THAT EXPOSE HEARTWOOD SHALL BE AVOIDED WHENEVER POSSIBLE.
 - f. ALL TREES WITH CROWNING THAT PROJECT INTO PARKING LOT/ROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.
 - g. ALL TREES WITH CRIMMS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RAISED TO A HEIGHT OF 8 FEET ABOVE FINISHED GRADE.
 - j. TREES WHO'S ROOT 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 PROJECT ARCHITECT.
 - b. REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD.
 - c. REDUCE END WEIGHT ON HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO GREATER THAN 12 INCHES, NEAR THE BASE OF SCALFOLD BRANCHES.
 - d. RAISING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE.
 - k. PRUNING SHALL BE LIMITED TO CLEARING.
 - a. PRUNING SHALL BE LIMITED TO CLEARING.
 - l. BRUSH SHALL BE CHIPPED AND SPREAD ONLY WHEN DISEASE 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.
 - m. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DEBRIS ON A DAILY BASIS.
 17. FERTILIZATION
 - a. CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING BEST MANAGEMENT PRACTICES WITH THE PROJECT ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
 - b. EVERY EFFORT SHALL BE MADE TO UTILIZE CHEMICALS OF AN ORGANIC OR BIODEGRADABLE NATURE IN ORDER TO OFFER THE LEAST IMPACT TO THE NATURAL ENVIRONMENT. CONTRACTOR IS RESPONSIBLE FOR MIXING, APPLYING, AND DISPOSAL OF ALL CHEMICALS IN ACCORDANCE WITH THE ADHERENCE TO MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH PROJECT ARCHITECT FOR FURTHER INFORMATION.
 - c. ONLY TREES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE TREE MITIGATION PLAN AND TREE INVENTORY SCHEDULE SHALL BE TREATED.
 - d. TREES SPECIFIC TO RECEIVE FERTILIZER SHALL BE TREATED AS FOLLOWS:
 - a. MIX FERTILIZER ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO A TANK WITH AGITATION CAPABILITY.
 - b. MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAME TANK WITH FERTILIZER. AGITATE MIX.
 - c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
 - d. THE CRITICAL ROOT ZONE PLUS 1/2 BEYOND THE CRITICAL ROOT ZONE SHALL BE INJECTED, BUT NOT BEYOND ROOT PRUNING LOCATIONS.
 - e. FERTILIZER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEMS.
 - f. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPOOLED FOR INSPECTION BY THE PROJECT ARCHITECT PRIOR TO DISPOSAL.
 18. INSECTICIDE
 - a. NOTIFY PROJECT ARCHITECT IF ANY INFESTATION IS NOTICED.
 - b. FOLLOW PROJECT ARCHITECT'S RECOMMENDED PROCEDURES.
 - c. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS CONCERNING APPLICATION. READ ALL WARNING LABELS.
 - d. ANY PETS, AS WELL AS THE PETS FOOD AND WATER BOWLS SHOULD BE REMOVED FROM THE AREA AND ANY SWINNING POOLS SHOULD BE COVERED COORDINATE WITH PROJECT ARCHITECT FOR FURTHER INFORMATION.
 - e. ENSURE COMPLETE COVERAGE AND REPEAT 2-3 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE.
 19. IRRIGATION
 - a. EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS. CONTRACTOR SHALL IRRIGATE BY HAND OR BY TEMPORARY IRRIGATION.
 - b. IRRIGATE AS REQUIRED BY PROJECT ARCHITECT UNTIL PERMANENT IRRIGATION IS INSTALLED AND OPERATING.
 - c. UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRP LINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED AND APPROVED BY THE PROJECT ARCHITECT.
 20. TREE REMOVALS
 - a. PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARCHITECT WITH RED SURVEY RIBBONS AT 36 INCHES MINIMUM ABOVE GROUND.
 - b. CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE

1 TYPICAL TREE MITIGATION NOTES

| | | | | | | | | | | | |
|--------------------------|--|--|--|----------------------------|--|----------------|--|------------------|--|----------------|--|
| SHEET NUMBER | | LAKE COUNTY FIRE | | LAKE COUNTY | | FLORIDA | | TREE MITIGATIONS | | SPECIFICATIONS | |
| L0.52 | | STATION 71 | | | | | | | | | |
| 044 PERMIT 043-550002 | | DATE 09/02/2022 | | SCALE AS SHOWN | | DESIGNED BY AL | | DRAWN BY AL | | CHECKED BY KM | |
| | | DATE 3/7/2022 | | PERMIT COMMENT RESPONSE II | | REVISIONS | | DATE | | BY | |
| Kimley»Horn | | © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106 | | | | | | | | | |



LANDSCAPE NOTES

- ALL LANDSCAPE MATERIAL TO BE FLORIDA GRADE #1 OR BETTER QUALITY
- ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL
- ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE
- ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION
- ALL TREES MUST BE GUIED OR STAKED AS SHOWN IN THE DETAILS
- ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA TO PROTECT ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK
- CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE WARRANTY PERIOD
- ANY PLANT MATERIAL, WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON
- STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL
- ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADING AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II" STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE
- ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES
- ALL LANDSCAPED AREAS WILL BE PROVIDED WITH PERMANENT AUTOMATIC IRRIGATION SYSTEM
- TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS "ESTABLISHED" (AS APPROVED BY THE LANDSCAPE ARCHITECT)
- ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PRODUCE PLANT MATERIALS AND USE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION

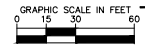
PLANT SCHEDULE

| CANOPY TREE | CODE | QTY | BOTANICAL NAME | COMMON NAME | COUNT | GAL | SIZE |
|-------------|-----------|---|--|-------------|-------|-----|--------------------------------|
| AF | 4 | ACER RUBRUM 'FLORIDA FLAME' | FLORIDA FLAME RED MAPLE | FG | 3" | 3" | 8" HT MIN X 4" SPREAD MIN |
| MG | 13 | MAGNOLIA GRANDIFLORA FL #1, STRAIGHT, SINGLE TRUNK | SOUTHERN MAGNOLIA | F.G. | 3" | 3" | 8" HT MIN X 4" SPREAD MIN |
| QV | 8 | QUERCUS VIRGINIANA STRAIGHT, SINGLE LEADER, FL #1, FULL | SOUTHERN LIVE OAK | FG | 3" | 3" | 8" HT MIN X 4" SPREAD MIN |
| TD | 14 | TAXODIUM DISTICHUM FL #1, STRAIGHT, SINGLE TRUNK | BALD CYPRRESS | F.G. | 3" | 3" | 8" HT MIN X 4" SPREAD MIN |
| LD | 12 | LAGERSTROEMIA INDICA 'NATCHEZ' 4 TRUNK MIN, FL #1, FULL | NATCHEZ CRAWP MYRTLE | FG | 4" | 4" | 8" HT MIN X 4" SPREAD MIN |
| SS | 2 | SABAL PALMETTO FL #1, STRAIGHT, BOOTED | CABBAGE PALMETTO | F.G. | - | - | 10" CT MIN |
| HF | 30 | HAMELIA PATENS | DWARF FREEBUSH | 3 GAL | 3" | 3" | 18" FULL |
| IS | 35 | ILEX VOMITORIA 'STOKES DWARF' | DWARF YALPOUN HOLLY | 3 GAL | 3" | 3" | 18" FULL |
| ZP | 33 | ZAMIA PUMILA | COONTIE PALM | 3 GAL | 3" | 3" | 18" FULL |
| AG | 92 | RHODODENDRON X 'GEORGE L. TABER' | GEORGE L. TABER SOUTHERN INDICA AZALEA | 3 GAL | 3" | 3" | 24" FULL |
| MC2 | 70 | MYRTICANTHUS FRAGRANS 'COMPACTA' | COMPACT SIMPSON'S STOPPER | 3 GAL | 3" | 3" | 24" FULL |
| VQ2 | 225 | VIBURNUM OBOVATUM | WALTER'S VIBURNUM | 3 GAL | 3" | 3" | 24" FULL |
| HD | 302 | HELIANTHUS DEBILIS | DUNE SUNFLOWER | 1 GAL | 18" | 18" | 12" FULL |
| LM | 314 | LIRIOPE MUSCARI | LILY TURF | 1 GAL | 18" | 18" | 12" FULL |
| MS | 595 | MIMOSA STRIGILLOSA | SUNSHINE MIMOSA | 1 GAL | 18" | 18" | 12" FULL |
| PA | 41,891 SF | PASPALUM NOTATUM 'ARGENTINE' DISEASE/INSECT/WEED FREE | ARGENTINE BAHIA GRASS | SOD | - | - | - |
| TS | 25,412 SF | SEED | SEED | - | - | - | PLANTING RATE: 35 LBS PER ACRE |

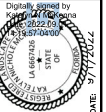
MISC. QTY. BOTANICAL COMMON NAME
MULCH TSD DESIGNER BROWN HARDWOOD MULCH
SPECIFICATIONS
3" DEPTH MINIMUM, SHREDED, FREE OF WEEDS/INVASIVE PLANT MATERIAL

LAKE COUNTY LANDSCAPE CODE

| CODE | REQUIRED | PROPOSED |
|---|---|---|
| VEHICULAR USE AREA INTERIOR LANDSCAPING - SEC 9.01.07 (A)(1) 1 CANOPY TREE / SINGLE ROW TERMINAL LANDSCAPE ISLAND 2 FT. HIGH MAX SCREENING SHRUB PROVIDED IN TERMINAL ISLAND 50% TO BE LIVE OAK TREES 1 CANOPY TREE / 50 LF OF ENTIRE VEHICULAR USE AREA PERIMETER | 7 LANDSCAPE ISLANDS + 7 CANOPY TREES + 2 HT MAX HEDGE 7 X 30 = 3.5 TREES TO BE LIVE OAK MIN. 1 CANOPY TREE / 50 LF OF ENTIRE VEHICULAR USE AREA PERIMETER | 7 CANOPY TREES (4 LIVE OAKS) + 2 HT MAX HEDGE 1 CANOPY TREE / 50 LF OF ENTIRE VEHICULAR USE AREA PERIMETER |
| BUILDING PERIMETER BUILDING LANDSCAPING - SEC 9.01.07 (B)(1) MINIMUM OF THREE (3) TREE SPECIES 40% OF THE BUILDING PERIMETER: 3 ORNAMENTAL TREES + 28 TREES/100 LF | BUILDING PERIMETER (NOT INCLUDING ACCESS DRIVEWAY): 287 FT. REQUIRED LANDSCAPING FOR BUILDING PERIMETER: 114.5 FT TOTAL (40% X 287 FT) ORNAMENTAL TREES: 114.5 FT (114.5 FT / 100 FT) X 3 ORNAMENTAL TREES = 3 ORNAMENTAL TREES (4 ROUNDED TO NEAREST WHOLE NUMBER) SHRUBS: 114.5 FT (114.5 FT / 100 FT) X 28 SHRUBS = 32 (32.1 ROUNDED TO NEAREST WHOLE NUMBER) | ORNAMENTAL TREES: 3 TREES SHRUBS: 72 SHRUBS |
| LANDSCAPE BUFFER REQUIREMENTS TYPE A BUFFER (10 FT WIDTH REQUIREMENTS - SEC 9.01.06) 2 CANOPY TREES, 1 ORNAMENTAL TREE / 100 LF ONE 2" HT SINGLE ROW OF SHRUBS (CONTINUOUS HEDGE) | WEST BUFFER A - 102.7 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS WEST BUFFER B - 140.4 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS EAST BUFFER A - 140.4 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS EAST BUFFER B - 140.4 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS SOUTH BUFFER B - 317.8 LF 6 CANOPY TREES, 3 ORNAMENTAL TREES, 1 SINGLE ROW OF SHRUBS | WEST BUFFER A - 102.7 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS WEST BUFFER B - 140.4 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS EAST BUFFER A - 140.4 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS EAST BUFFER B - 140.4 LF 2 CANOPY TREES, 1 ORNAMENTAL TREE, 1 SINGLE ROW OF SHRUBS SOUTH BUFFER B - 317.8 LF 6 CANOPY TREES, 3 ORNAMENTAL TREES, 1 SINGLE ROW OF SHRUBS |
| RETENTION POND LANDSCAPE RETENTION POND LANDSCAPE - SEC 9.01.07 3 CANOPY TREES/150 LF OF RETENTION POND BANK | 766 LF / 150 LF = 5.1 x 5.1 x 3 = 15 TREES | 15 TREES |
| OPEN SPACE TREES OPEN SPACE LANDSCAPE - SEC 9.01.06 D.3 10 TREES PER 1 ACRE OF PEROUS AREA | 2.7 ACRES X 10 = 27 TREES | GREATER THAN 27 TREES PROPOSED/EXISTING |
| GENERAL LANDSCAPE REQUIREMENTS 50% MIN. OF PLANT SPECIES SHALL BE NATIVE CANOPY TREES MIN. 2.5" CAL, 8" HT, 4" SPREAD ORNAMENTAL TREES MIN. 2" CAL, 8" HT, 4" SPREAD SHRUBS (SCREENING): 4" O.C., 3 GAL, 24" HT MINIMUM MAX 1 TOTAL REQUIRED TREES SHALL BE 1 GENUS | | |



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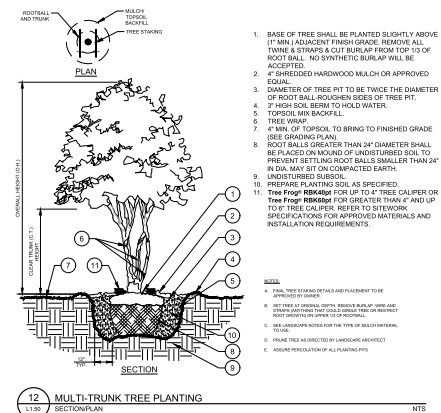
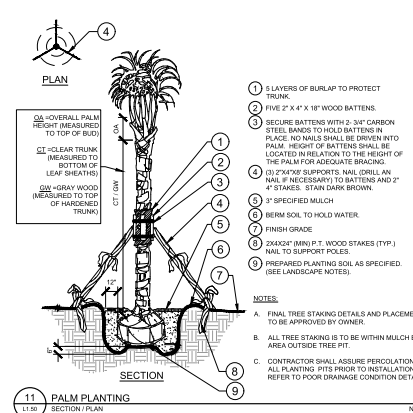
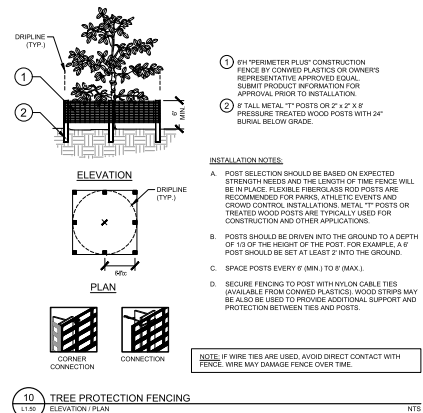
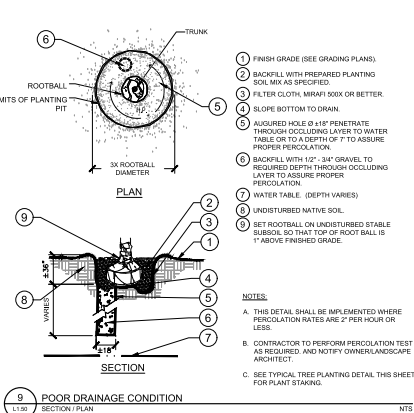
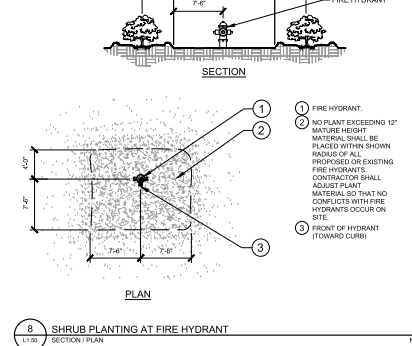
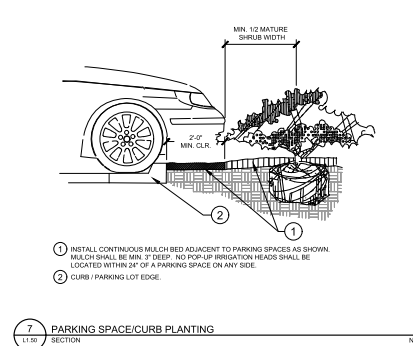
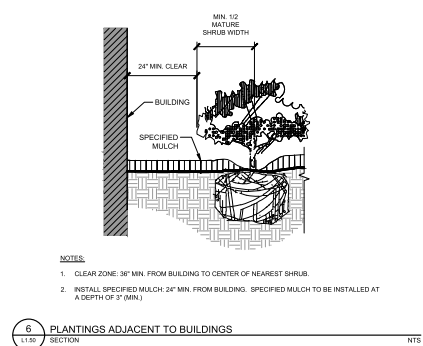
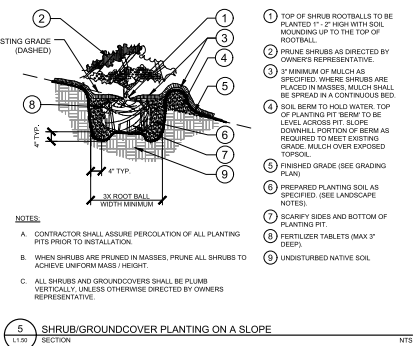
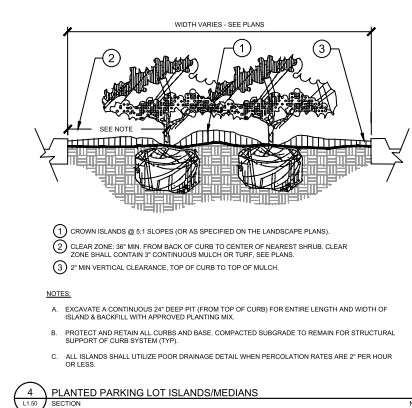
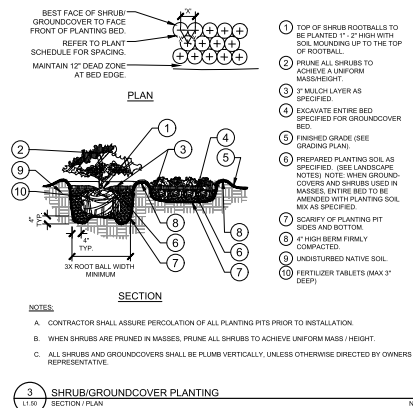
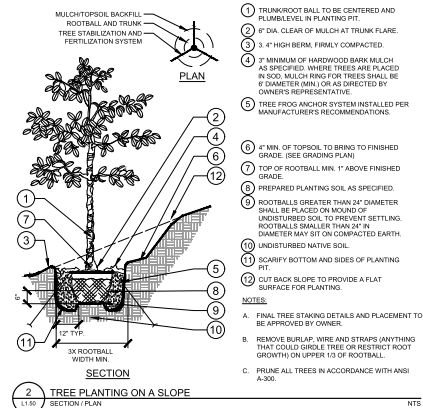
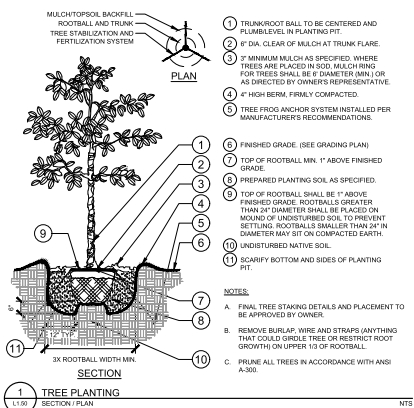
KIM PROJECT
049550002
DATE
09/02/2022
SCALE AS SHOWN
DESIGNED BY AL
DRAWN BY
CHECKED BY KM
DATE 9/7/2022

LANDSCAPE PLAN

LAKE COUNTY FIRE
STATION 71

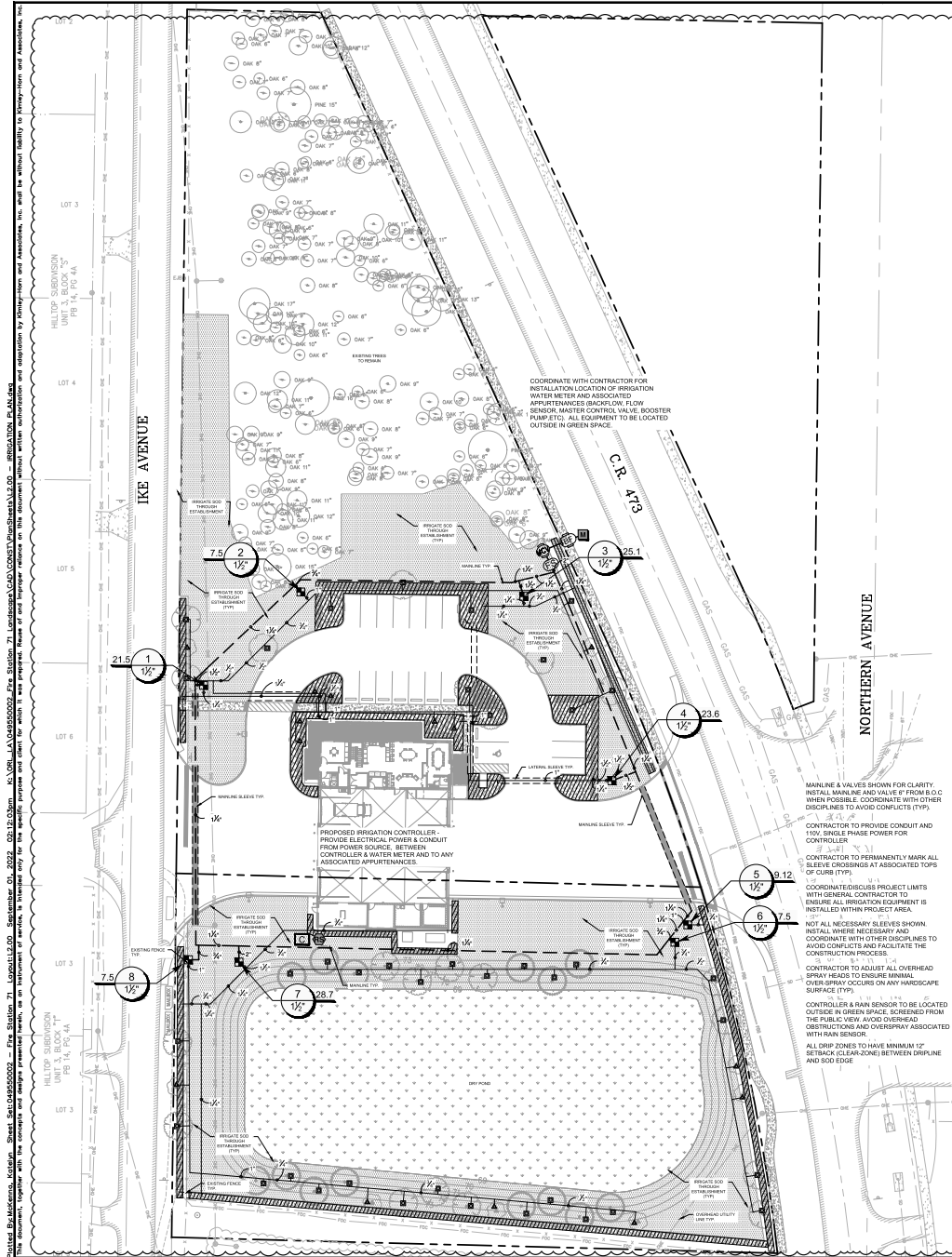
SHEET NUMBER
L1.00

LAKE COUNTY
FLORIDA



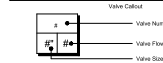
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 R:001-14-049500002 Fire Station 01, 2022 02/11/21 4:00pm R:001-14-049500002 Fire Station 01, 2022 02/11/21 4:00pm
 This document, together with the contents and outlines presented herein, is intended only as an indication of service to be rendered and does not constitute an offer of insurance. The actual description of service to be rendered shall be set forth in the actual contract. This document, together with the contents and outlines presented herein, is intended only as an indication of service to be rendered and does not constitute an offer of insurance. The actual description of service to be rendered shall be set forth in the actual contract. This document, together with the contents and outlines presented herein, is intended only as an indication of service to be rendered and does not constitute an offer of insurance. The actual description of service to be rendered shall be set forth in the actual contract.

- # 1 TYPICAL LANDSCAPE SPECIFICATIONS (FLORIDA)



IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | PSI |
|--------|--|------------|-----|
| ▲ | RAIN BIRD 1800 SAM PHS 1400 FLOOD 1400 FLOOD SUBIRRIGATOR POPUP WITH CHECK VALVE AND PRESSURE REGULATOR | 53 | 20 |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | PSI |
| ■ | RAIN BIRD X22-150-LC2R HIGH FLOW CONTROL ZONE KIT FOR LARGE COMMERCIAL DRIP ZONES 1-1/2" PRESS R SCRUBBER GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATOR 40PSI QUICK-CHECK BASKET FILTERS, FLOW RANGE: 15-62 GPM | 8 | |
| ■ | AREA TO RECEIVE DRIFLINE RAIN BIRD X70-09-12 400 ON SURFACE PRESSURE COMPENSATING LANDSCAPE DRIFLINE 0.9 GPM EMITTERS AT 12" O.C. DRIFLINE LATERAL SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN, UV RESISTANT, SPECIFY 20' NEST FITTINGS | 7,201 L.F. | |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | PSI |
| ■ | RAIN BIRD VES-PS-12 1-1/2" 1-1/2" 2" PLASTIC INDUSTRIAL VALVES, LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATING MODULE AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS | 1 | |
| ■ | FEBCO B57V 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER | 1 | |
| ■ | RAIN BIRD ESPRIMO 8 STATION TRADITIONALLY WIRED, COMMERCIAL CONTROLLER, INDOOR/OUTDOOR, PLASTIC WALL MOUNT ENCLOSURE | 1 | |
| ■ | RAIN BIRD RED-BOX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE | 1 | |
| ■ | RAIN BIRD FS-100-P 1" FLOW SENSOR, PLASTIC PVC MODEL, SUGGESTED OPERATING RANGE: 5.4 GPM TO 54 GPM, SIZE FOR FLOW NOT ACCORDING TO PIPE SIZE, RAIN BIRD COMPATIBLE CONTROLLERS: ESPRIMO (1) AND LIMEPIPI (1) OR CONTROLLERS ACCEPTING CUSTOM K-FACTOR AND OFFSET. INSTALL IN RAIN BIRD VALVE BOX | 1 | |
| ■ | WATER METER 1-1/2" | 1 | |
| --- | IRRIGATION LATERAL LINE, PVC CLASS 200 SDR 21 | 2,079 L.F. | |
| --- | IRRIGATION MAINLINE, PVC CLASS 200 SDR 21 | 949 L.F. | |
| --- | PIPE SLEEVE, PVC SCHEDULE 40 | 148.3 L.F. | |
| --- | PIPE SLEEVE, PVC SCHEDULE 40 MAINLINE | 196 L.F. | |



VALVE SCHEDULE

| NUMBER | MODEL | SIZE | TYPE | GPM | PSI | VALVE LOSS | PSI | PSI @ POC | PSI @ PC |
|--------|------------------------|--------|--------------------|------|------|------------|------|-----------|----------|
| 1 | RAIN BIRD X22-150-LC2R | 1-1/2" | AREA FLOW DRIFLINE | 25.1 | 20.2 | 1.1 | 15.1 | 14.3 | 1.43 |
| 2 | RAIN BIRD X22-150-LC2R | 1-1/2" | BUBBLER | 7.9 | 20.2 | 2.3 | 23.4 | 42.1 | 1.33 |
| 3 | RAIN BIRD X22-150-LC2R | 1-1/2" | AREA FLOW DRIFLINE | 25.0 | 41.3 | 4.5 | 15.8 | 15.3 | 1.43 |
| 4 | RAIN BIRD X22-150-LC2R | 1-1/2" | AREA FLOW DRIFLINE | 23.8 | 41.3 | 4.5 | 15.8 | 15.1 | 1.43 |
| 5 | RAIN BIRD X22-150-LC2R | 1-1/2" | AREA FLOW DRIFLINE | 9.1 | 11.3 | 2.3 | 12.7 | 25.5 | 1.43 |
| 6 | RAIN BIRD X22-150-LC2R | 1-1/2" | BUBBLER | 7.9 | 30.1 | 2.3 | 28.1 | 42.9 | 1.6 |
| 7 | RAIN BIRD X22-150-LC2R | 1-1/2" | AREA FLOW DRIFLINE | 25.1 | 10.8 | 1.1 | 10.8 | 14.3 | 1.43 |
| 8 | RAIN BIRD X22-150-LC2R | 1-1/2" | BUBBLER | 7.9 | 10.7 | 2.3 | 20.5 | 42.9 | 1.5 |

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01

Water Source Information:

Flow Available: 1-1/2"

Water Meter Size: 75 GPM

Flow Available: 1-1/2"

Pressure Available: 45 PSI

Static Pressure at POC: 5.00 ft

Elevation Change: 8"

Service Line Size: 20"

Pressure Available: 43 PSI

DESIGN ANALYSIS

Maximum Station Flow: 28.73 GPM

Flow Available at POC: 75 GPM

Residual Flow Available: 46.28 GPM

Critical Station: 8

Design Pressure: 20 PSI

Friction Loss: 3.48 PSI

Fittings Loss: 0.38 PSI

Elevation Loss: 0 PSI

Loss Through Valve: 2.3 PSI

Pressure Reg. at Critical Station: 26.11 PSI

Loss for Friction: 0.96 PSI

Loss for Main Line: 0.96 PSI

Loss for Backflow: 12.3 PSI

Loss for Meter Valve: 3.9 PSI

Loss for Water Meter: 0.1 PSI

Critical Station Pressure at POC: 42.88 PSI

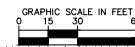
Pressure Available: 43 PSI

Residual Pressure Available: 0.15 PSI

This IRRIGATION PLAN IS DESIGNED TO THE FOLLOWING STATIC WATER PRESSURE/FLOW FROM THE MUNICIPAL SOURCE: 45 PSI AND 75 GPM. CONTRACTOR TO VERIFY AVAILABLE WATER PRESSURE AND CONTACT THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF A SYSTEM HAS <45 PSI THAN THE DESIGN PRESSURE.

IRRIGATION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, ETC. PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
3. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
4. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
5. THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
6. CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE WILL NOT ALLOW SYSTEM MODIFICATION TO BE POSSIBLE.
7. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
8. WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
9. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
10. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES.
11. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNER'S REPRESENTATIVE.
12. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
13. CONTRACTOR TO PROVIDE PERMANENT BENCH MARKS ON ALL CURB LINES AT RELATED SLEEVE LOCATIONS (TYP).
14. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MINIMIZE ROOT DISTURBANCE IN EXISTING TREES.
15. IRRIGATION SPRAYS AND ROTATORS ARE NOT COMBINED ON THE SAME CONTROL VALVE CIRCUIT - LANDSCAPE BEDS AND TURF ON SEPARATE CIRCUITS.
16. MATCH PRECIPITATION RATES WITH ANY HEADS THAT ARE REPLACED.



PROJECT: 049550002
DATE: 09/02/2022
SCALE: AS SHOWN
DESIGNED BY: AL
DRAWN BY: AL
CHECKED BY: KM
DATE: 9/7/2022

FLORIDA

LAKE COUNTY

LAKE COUNTY FIRE STATION 71

IRRIGATION PLAN

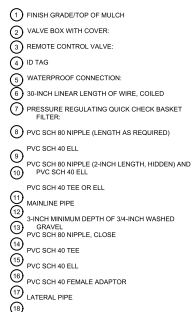
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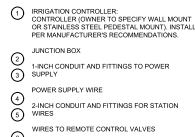
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Permit Comment Response II
09/02/22 GHA
DATE

REVISIONS
No.



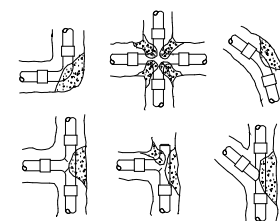
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NOTES:

1. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

NTS

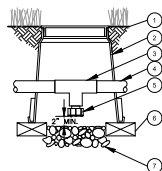


INSTALLATION NOTES

1. 3500 PSI CONCRETE OR BETTER IS TO BE USED FOR THRUST BLOCKS.
2. FOR 45/90° FITTINGS, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.
3. FOR 22-1/2° FITTINGS, MINIMUM OF 0.5 CUBIC FEET OF CONCRETE TO BE USED.
4. FOR TEES, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED. THRUST

BLOCKS REQUIRED FOR IRRIGATION MAINLINE 2 1/2" AND LARGER.

NT:



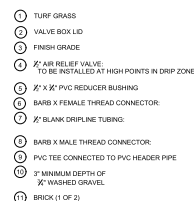
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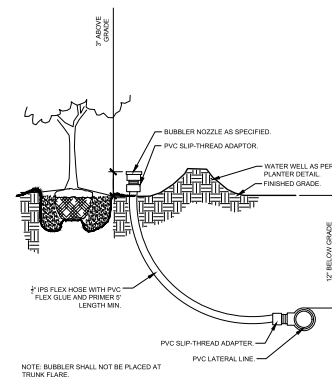
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10 TYPICAL SLEEVING



NTS



NTS



IRRIGATION SYSTEM NOTES:

- THE IRRIGATION MAINLINE LAYOUT IS DIAGRAMMATIC. ANY CHANGES MADE IN THE IRRIGATION MAINLINE DUE TO FIELD CONDITIONS OR CONTRACTOR'S SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
2. SET SPRAY HEADS "P" AND ROTORS "12" IN FRONT BACK OF CURB OR 24" IF PAVEMENT HAS CURB.
3. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT OF THE SYSTEM AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING (BUT NOT LIMITED TO) AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.
4. CONTRACTOR TO PROVIDE NEW AUTOMATIC CONTROLS FOR PROPOSED SYSTEM (NO BATTERY OPERATED CONTROLS ALLOWED). COORDINATE LOCATION WITH OWNER.
5. CONTRACTOR SHALL BE PROVIDING AUTOMATIC RAIN SENSOR. COORDINATE LOCATION WITH OWNER.
6. IRRIGATION SHALL NOT BE COMBINED ON A SINGLE ZONE AND SHALL BE ZONED ACCORDING TO IRRIGATION TYPE, PRECIPITATION RATE, AND THE SYSTEM'S AVAILABLE WATER / PRESSURE. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO INSTALLATION.
7. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
8. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSB AND GPM PRIOR TO CONSTRUCTION.
9. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON-SITE.
10. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
11. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
12. PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
- PRE-APPROVED MANUFACTURERS:
- 1. TORO
 - 2. HUNTER
 - 3. RAINBIRD
13. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
14. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITH SCH. 40 PVC 2X SIZE OF PIPE AND PERMIT OF STONES/DEBRIS. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS.
15. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
16. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.
17. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
18. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SCH. 40 PVC. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVES WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
19. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "90". LETTERS OUTSIDE THE TOP OF GATE CABINETS TO CORRESPOND THROUGH CLOCK.
20. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
21. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
22. ALL 24 VAC WIRING FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET. AS FOLLOWS:
CONTROL WIRES - #14
COMMON WIRES - #14
23. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NOS VALVE BOXES AS FOLLOWS:
- RECTANGULAR 12X12" HEAVY DUTY BOX (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE)
24. ALL IRRIGATION HEADS/GRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE ALLEYS).
25. HEADS, LATERALS, EMITTERS, AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM.
26. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE. WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.
27. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT LATERALS. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
28. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.5 GPM EMITTERS, 12" O.C. WITH 12" LINE SPACING AT A MINIMUM.
29. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS. IF REQUIRED, ALL HIGH OR LOW POINT PATH SHALL BE WITH REDUCIBLE TWISTED PAIR 14 AWG. ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TWISTED PAIR 18 AWG. ALL DECODERS SHALL BE GROUNDED EVERY 1,000 FT. OR EVERY 10 DEVICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2,500 FEET ROLLS AND SPLICING SHALL BE MANAGED. BURY SPIKE NOT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. IRRIGATION SYSTEMS SHALL HAVE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW CONTRACT MANUFACTURER'S REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS FIELD PROGRAMMABILITY, STATUS SPECIFICATIONS AND INTEGRATED ZONE PROTECTION.
30. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1" ELECTRICAL CONDUIT.
31. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4".
32. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.05" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.
33. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES. DO NOT TRENCH THROUGH EXISTING ROOT SYSTEMS OF ANY VEGETATION INTENDED TO BE PRESERVED.
34. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPROVING AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
35. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION DENOTED ON THE LANDSCAPE PLAN.
36. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEWALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIS.
37. IRRIGATION SOURCE TO BE EITHER WELL, POTABLE, OR NON-POTABLE WATER. IRRIGATION CONTRACTOR TO VERIFY SOURCE PRIOR TO DESIGN.
38. POINT OF CONNECTION TO BE DETERMINED BY OWNER. IRRIGATION SYSTEM CONNECTIONS TO THE LOCAL JURISDICTION SERVICE SHALL COMPLY WITH ALL APPLICABLE CODES.
39. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION. VERIFY WITH LOCAL JURISDICTION.
40. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE.

PRE-APPROVED MANUFACTURERS:

1. TURU
2. HUNTER
3. RAINBIRD

13. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.

14. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITHIN SCH. 40 PVC 2x SIZE OF PIPE AND FREE OF STONES/DEBRIS. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS.

15. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.

16. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.

17. ALL PENETRATIONS OF THE REINFORCING STEEL SHALL BE MADE FROM THE INSIDE OF THE STRUCTURAL MEMBER. PENETRATIONS ON THE EXTERIOR SURFACES OF THE REINFORCING STEEL SHALL BE PROTECTED FROM CORROSION BY THE REINFORCING STEEL. ALL PENETRATIONS OF THE REINFORCING STEEL SHALL BE MADE FROM THE INSIDE OF THE STRUCTURAL MEMBER. PENETRATIONS ON THE EXTERIOR SURFACES OF THE REINFORCING STEEL SHALL BE PROTECTED FROM CORROSION BY THE REINFORCING STEEL.

19. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB". LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.

20. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.

22. ALL 24 VAC WIRING FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET, AS FOLLOWS:

CONTROL WIRES - #14
COMMON WIRES - #14

23. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS:
-RECTANGULAR 12"x17" HEAVY DUTY BOX. (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).

24. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BAG OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).

25. HEADS, LATERALS, EMITTERS, AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM.

26. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE. WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.

27. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.

29. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RED/BLUE TWISTED PAIR 14 AWG. ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TWISTED PAIR 18 AWG. ALL DECODERS SHALL BE GROUNDED EVERY 300 FT. OF EVERY IN-DOORER. ALL WIRING SHALL BE DISMOUNTED IN MINIMUM 3 FOOT SEES AND SERVICING SHALL BE MAINTAINED. RIGID SERVICE W/IT. ALL SOLID TIE WIRING SHALL BE DONE IN ACCORDANCE WITH EVERYTHING CODES. SERVO SHALL BE PLAIN BE BRASS OR CONTROLLERS ON VIBRATION.

SYSTEM CONTROL SHALL BE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS FIELD PROGRAMMABILITY, STATION SPECIFICATIONS AND INTEGRATED SURGE PROTECTION.

31. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4".

32. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.05" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.

34. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.

36. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEWALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIS.

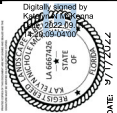
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39. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION, VERIFY WITH LOCAL JURISDICTION.

40. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE.

1 TYPICAL SCHEMATIC IRRIGATION NOTES

Kimley»»Horn



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|--------------------------|--------------------|----------------|----------------|-------------|---------------|
| KHA PROJECT 049550002 | DATE 09/02/2022 | SCALE AS SHOWN | DESIGNED BY AL | DRAWN BY AL | CHECKED BY KM |
|--------------------------|--------------------|----------------|----------------|-------------|---------------|

IRRIGATION SPECIFICATIONS

LAKE COUNTY FIRE
STATION 71

SHEET NUMBER
L2.51

FLORIDA CITY

| No. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|-----|-----------|------|----|