

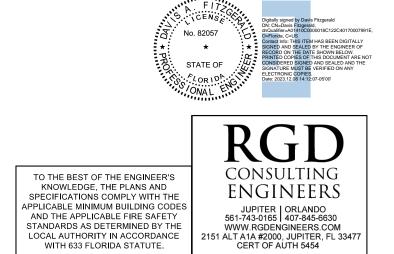
GARAGE ENTRANCE PHOTOMETRICS & LUMINAIRE PLAN - DAY TIME

SCALE: 1/8" = 1'-0"

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
\odot	4	GB	Single	12387	12387	0.900	105.2	105.2
$\overline{\odot}$	1	GBE	Single	12387	12387	0.900	105.2	105.2

LIGHT OUTPUT SUMMARY			
Scene: DAY MODE			
Label	Switched	Output	# Lums
GB	On	1.00	4
GBE	On	1.00	1
OBL		1.00	'

Calculation Summary							
Scene: DAY MODE							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ENTRANCE PARKING GARAGE	Illuminance	Fc	52.73	82.2	39.6	1.33	2.08

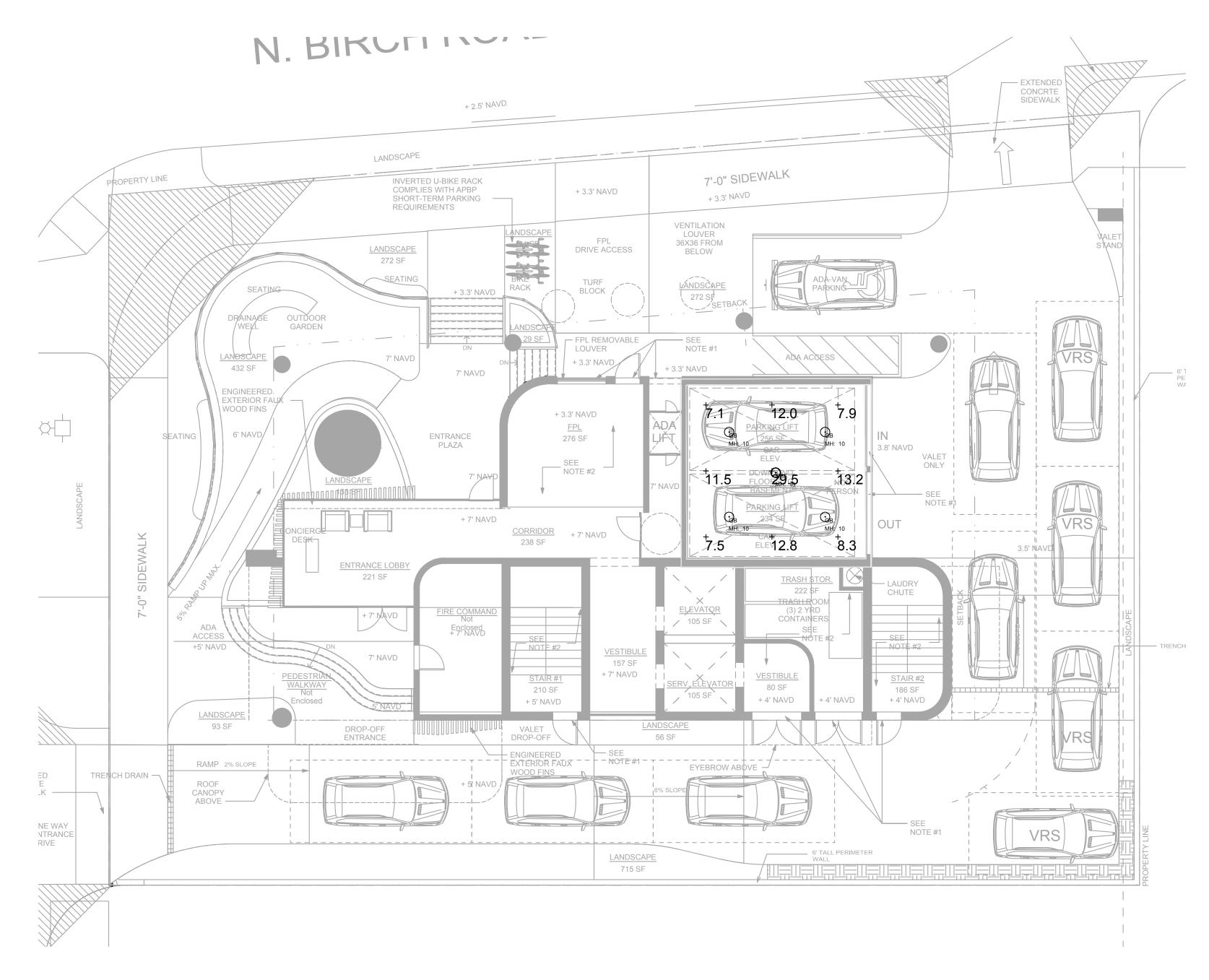


DRC 2023-006 06/21/23

HOTEL 42
3001 Alhambra Street, Fort Lauderdale FL 33304

GARAGE ENTRANCE PHOTOMETRICS & LUMINAIRE PLAN - DAY TIME

E-2.1

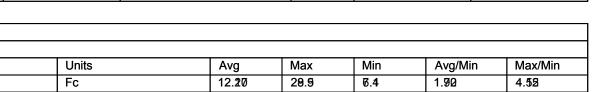


GARAGE ENTRANCE PHOTOMETRICS & LUMINAIRE PLAN - NIGHT TIME

SCALE: 1/8" = 1'-0"

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
\odot	4	GB	Single	12387	12387	0.900	105.2	105.2
Õ	1	GBE	Single	12387	12387	0.900	105.2	105.2

Switched	Output	# Lums
Off	1.00	4
On	1.00	1
	Off	Off 1.00





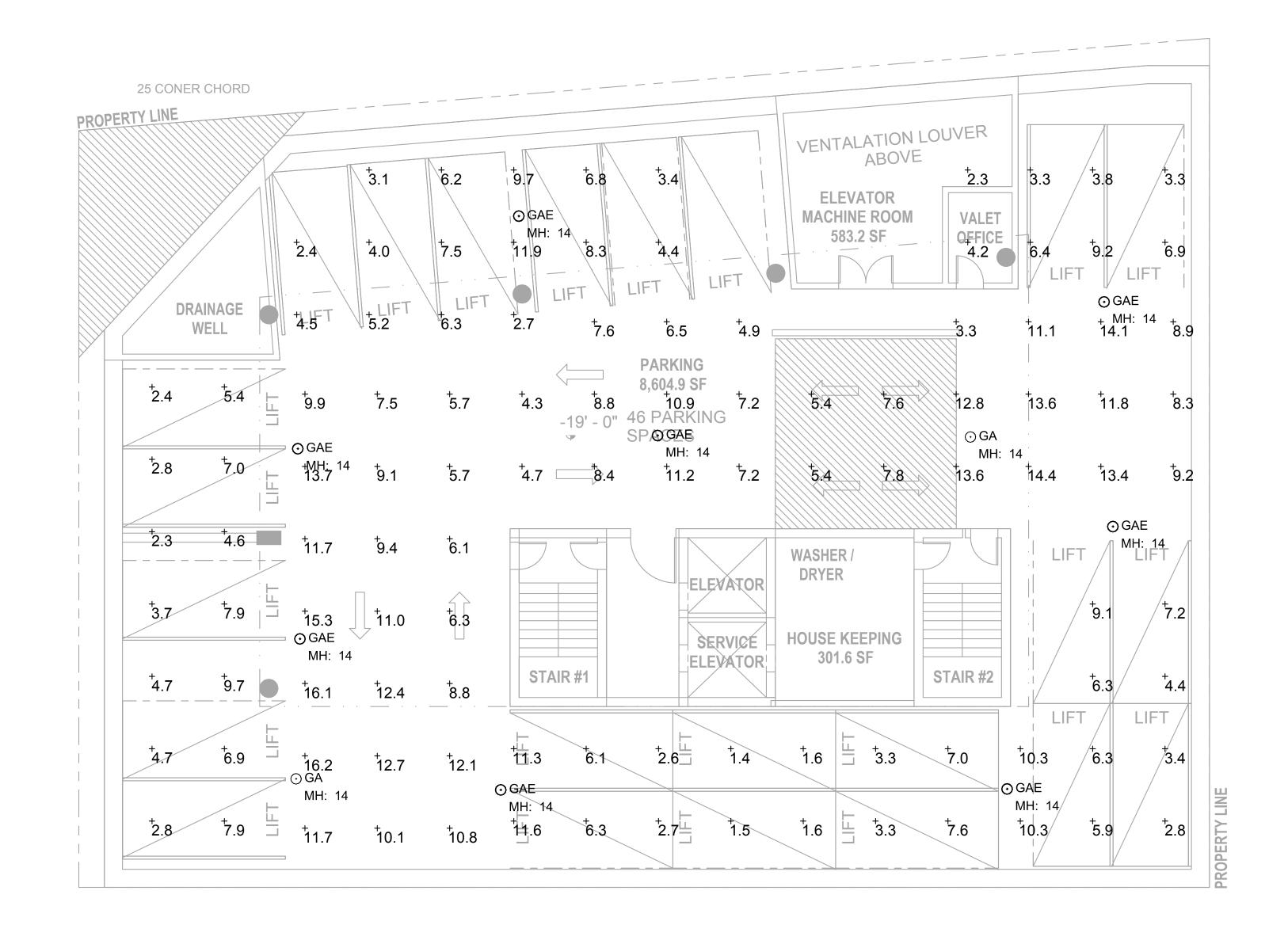


HOTEL 42
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Scene: NIGHT MODE

ENTRANCE PARKING GARAGE

GARAGE ENTRANCE PHOTOMETRICS & LUMINAIRE PLAN - NIGHT TIME E-2.2



 Min
 Avg/Min

 3.3
 2.93

1 BASEMENT PHOTOMETRICS & LUMINAIRE PLAN SCALE: 1/8" = 1'-0"

Illuminance

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
\odot	2	GA	Single	9415	9415	0.900	74.7	74.7
$\overline{\odot}$	8	GAE	Single	9415	9415	0.900	74.7	74.7

LIGHT OUTPUT SUMMARY			
Scene: DAY/NIGHT MODE			
Label	Switched	Output	# Lums
GA	On	1.00	2
GAE	On	1.00	8
	I		





HOTEL 42
3001 Alhambra Street, Fort Lauderdale FL 33304

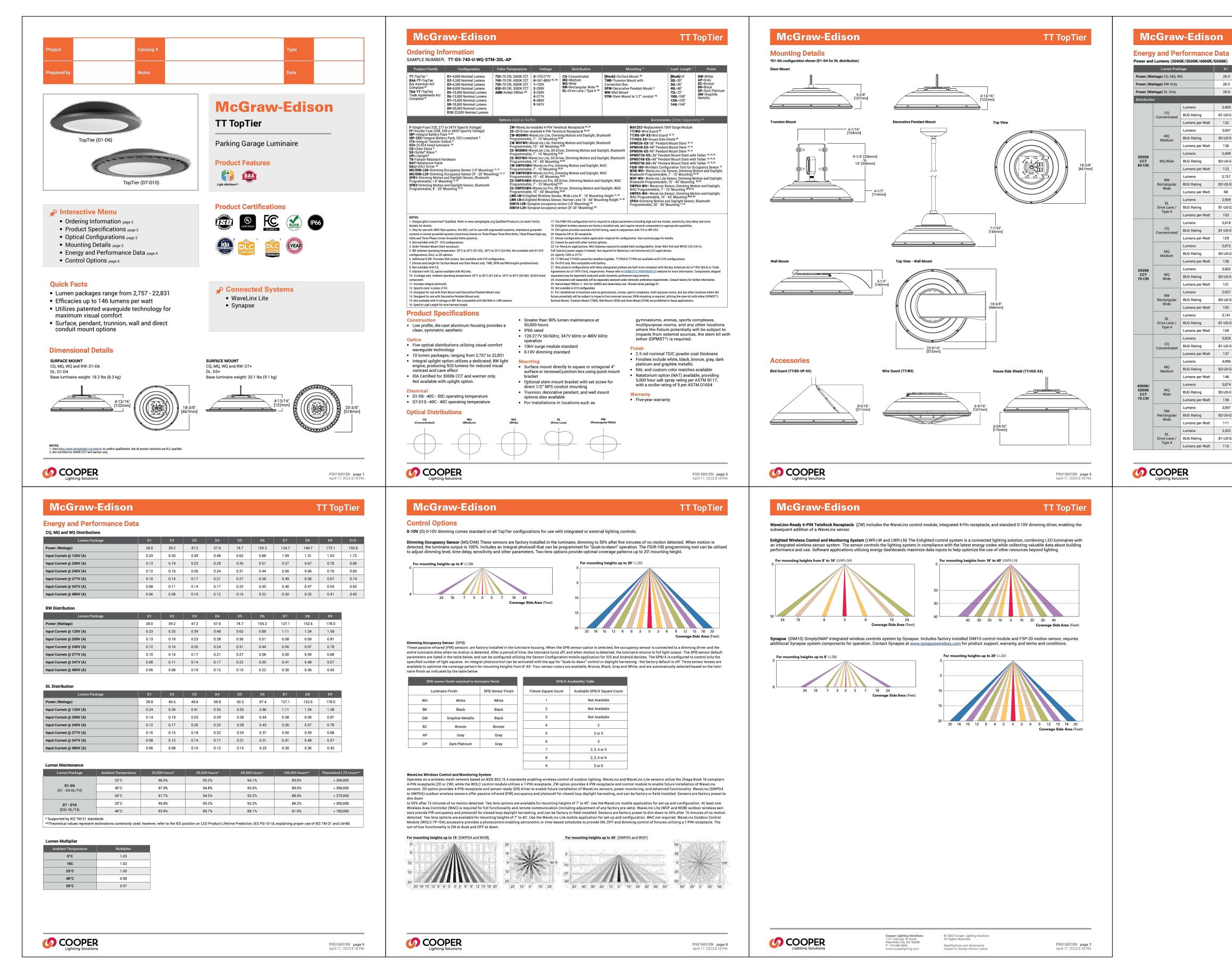
DRIVEWAYS

PARKING AREA



BASEMENT PHOTOMETRICS & LUMINAIRE PLAN

E-3.1



TT TopTier

View TopTier IES files

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH TH APPLICABLE MINIMUM BUILDING C AND THE APPLICABLE FIRE SAFET LOCAL AUTHORITY IN ACCORDANCE

ENGINEERS

DRC 2023-006 06/21/23

EQUIPMENT SPECIFICATIONS

McGraw-Edison

Power and Lumens (3000K/3500K/4000K/5000K)

Power (Wattage) CQ, MQ, WQ

Lumen Package D1 D2 D3 D4 D5 D6 D7 D8 D9 D10

 28.0
 39.2
 47.2
 57.6
 74.7
 105.2
 124.7
 148.7
 173.1
 193.8

 28.0
 39.2
 47.2
 57.6
 74.7
 105.2
 127.1
 152.6
 178.0

B1-U0-G1 B2-U0-G1 B2-U0-G1 B2-U0-G1 B3-U0-G2 B3-

2,757 3,753 4,526 5,387 6,781 8,922 11,977 13,619 15,122

B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B4-U0-G3 B4-U0-G3 B4-U0-G3 B4-U0-G3

B2-U0-G1 B3-U0-G2 B3-U0-G2 B3-U0-G2 B3-U0-G3 B4-U0-G3 B4-U0-G3 B4-U0-G3 B4-U0-G3 B4-U0-G3 B4-U0-G4

Drive Lane / Type 4 BUG Rating B1-U0-G2 B2-U0-G3 B2-U0-G3 B2-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G5

EQUIPMENT SPECIFICATIONS - TYPE GA, GAE, GB, GBE

GALN Galleon II GALN Galleon II GALN Galleon II **GALN Galleon II GALN Galleon Energy and Performance Data Mounting Details** SAMPLE NUMBER: GALN-SA4C-740-U-T4FT-GM Wall Mount, Adjustable (WA) Adjustable Arm Range of Motion Adjustable in increments of 5 ° Must maintain downward facing orientation McGraw-Edison **GALN Galleon II** Slipfitter, Adjustable (SP) Pole Mount, Adjustable Arm (PA Interactive Menu Ordering Information page 2 Mounting Details page 3 Product Specifications • Product Specifications page 5 · Energy and Performance Data page 6 Control Options page 10 Optics

High-efficiency injection-molded AccuLED Optics technology

16 optical distributions for area site and roadway applications

3 shielding options include HSS, GRS and PFS

IDA Certified (3000K CCT and warmer only, fixed mounting options) All arms suitable for round or square pole Quick Facts Upswept Arm (UP) * • Lumen packages range from 3,300 - 73,500 (33W - 552W) SE:
storner is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our paper WRF13001EN for additional support information.
signification consortium® Qualified. Refer to www.designilipits.org Qualified Products List under Family Models for details.
setal construction limits that prays treated to over \$,000-hours per ASTM B 1917, with a sorthe nating of 9 per ASTM D 1664. · Efficacy up to 159 lumens per watt a min over consect oppuration.

In the lead brought of the Statistical feature, but a residable with DSLI or interpreted controls controls mentioned between the security as selected as More feature Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability
 Standard with 0-10V dimming
 Standard with 10kV surge module, optional 20kV surge module **Dimensional Details** ion.
Tot available with color temperatures 722, 727 or 830 when either HA or HSS options are selected.
Not available with Coastal Construction (CC) option. and sensor options at 1A.
er arm limited to vertical 3" tenon. For mounting to 2-3/8" O.D. tenons, order accessory SRA238. **Energy and Performance Data** Mast Arm, Fixed (MA) NOTES:

1. Visib <u>https://www.designlights.org/search/</u> to confirm qualification. Not all product variations are DLC qualified.

2. IDA Certified (3000K CCT and warmer only, fixed mounting options) **O** COOPER **O** COOPER **O** COOPER **OOOPER OOOPER** McGraw-Edison **GALN Galleon II** McGraw-Edison **GALN Galleon II** Input Current @ 208V
Input Current @ 240V Input Current @ 208V Input Current @ 208V Input Current @ 208V Input Current @ 240V Input Current @ 240V Input Current @ 240V COOPER
Lighting Solutions COOPER Lighting Solutions COOPER
Lighting Solutions COOPER Lighting Solutions COOPER Lighting Solutions PS500052EN page 11 April 19, 2023 2:12 PM

EQUIPMENT SPECIFICATIONS - TYPE SA/SB



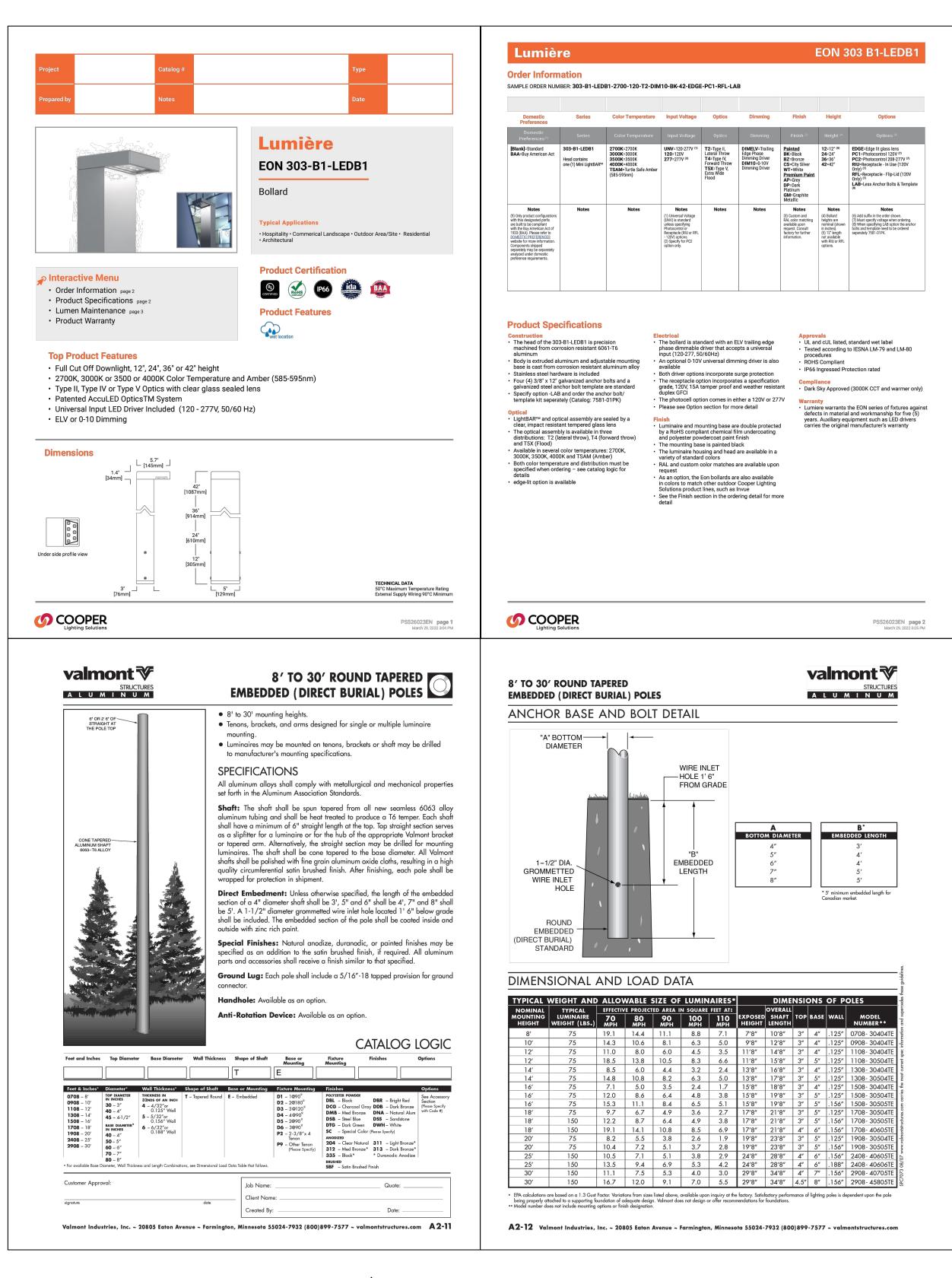
TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND ENGINEERS SPECIFICATIONS COMPLY WITH THE AND THE APPLICABLE FIRE SAFET

DRC 2023-006 06/21/23

HOTEL 42 3001 Alhambra Street, Fort Lauderdale FL 33304

EQUIPMENT SPECIFICATIONS





| Lumnière | Lume | Maintenance | Lume | Lum

OOOPER

EQUIPMENT SPECIFICATIONS - TYPE SC & SITE FIXTURE POLE



TO THE BEST OF THE ENGINEER'S
KNOWLEDGE, THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING CODES
AND THE APPLICABLE FIRE SAFETY
STANDARDS AS DETERMINED BY THE
LOCAL AUTHORITY IN ACCORDANCE
WITH 633 FLORIDA STATUTE.

RECONSULTING
ENGINEERS

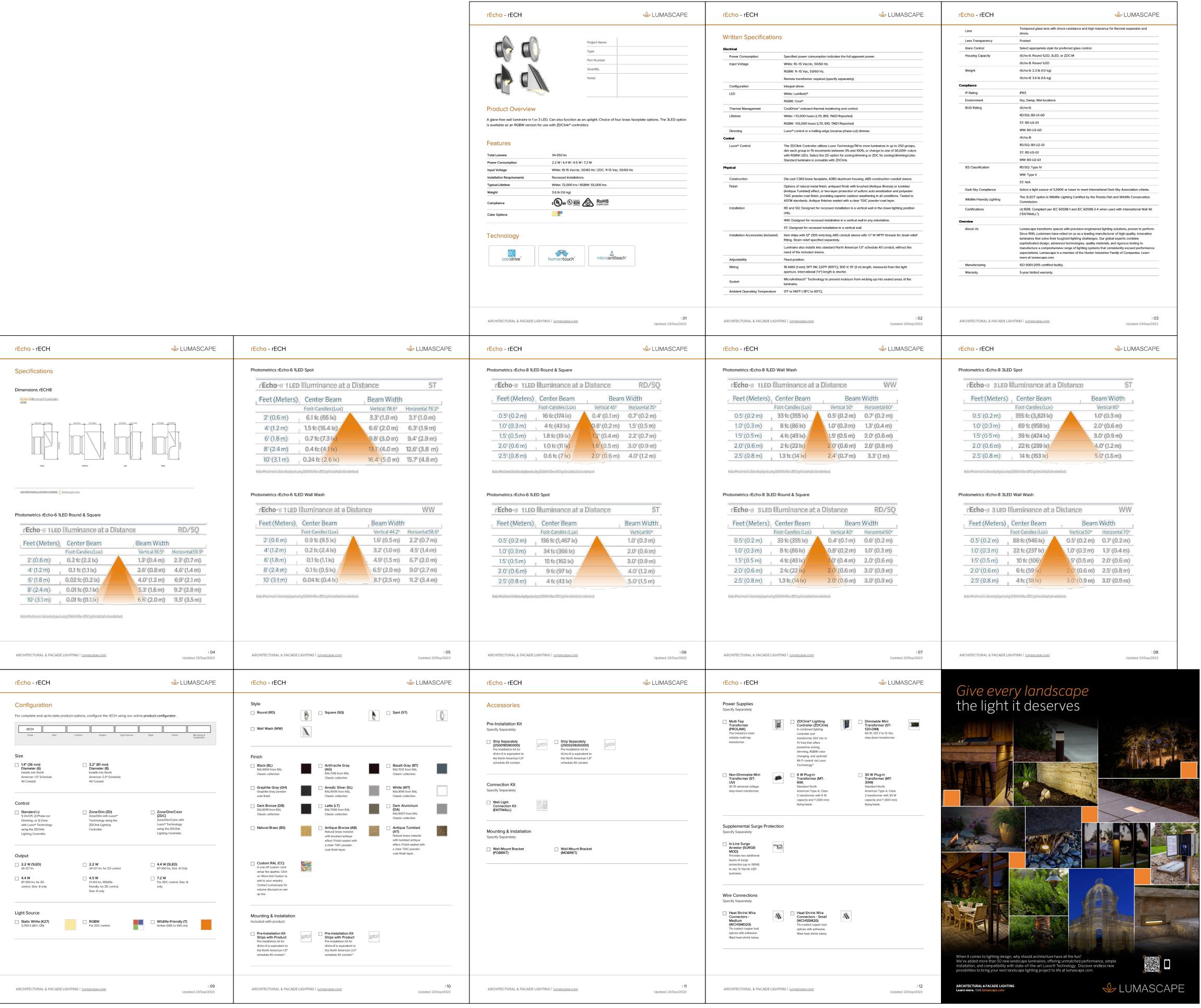
JUPITER | ORLANDO
561-743-0165 | 407-845-6630
WWW.RGDENGINEERS.COM
2151 ALT A14 #2000, JUPITER, FL 33477
CERT OF AUTH 5454

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HOTEL 42
3001 Alhambra Street, Fort Lauderdale FL 33304

EQUIPMENT SPECIFICATIONS

E-4.3



TO THE BEST OF THE ENGINEER'S SPECIFICATIONS COMPLY WITH TH AND THE APPLICABLE FIRE SAFET

ENGINEERS

EQUIPMENT SPECIFICATIONS - TYPE SD

HOTEL 42 3001 Alhambra Street, Fort Lauderdale FL 33304



DRC

2023-006 06/21/23



DRC SUBMITTAL FOR ADACHE GROUP ARCHITECTS, INC

CITY OF FORT LAUDERDALE BROWARD COUNTY, FLORIDA OCTOBER, 2024

PROJECT LOCATION

PROJECT TEAM:

OWNER/DEVELOPER:

ARCHITECT:

550 S FEDERAL HWY (954) 525-8133 CONTACT: TODD PERRODIN, AIA

LANDSCAPE:

KIMLEY-HORN 2 ALHAMBRA PLAZA, ST. 500 CORAL GABLES, FL 33134 (786) 725-5689 CONTACT: MICHELLE LATTE, PLA, ASLA

SURVEYOR:

BASELINE LAND SURVEY LLC 1400 NW 1ST COURT (561) 417-0700 CONTACT: JOHN E. KUHAR, PSM

CIVIL:

KIMLEY-HORN 8201 PETERS ROAD, SUITE 2200 PLANTATION, FL, 33324 (954) 535-5100 CONTACT: AARON R. MACKEY, P.E.

LIST OF CONTACTS:

WATER & SEWER:

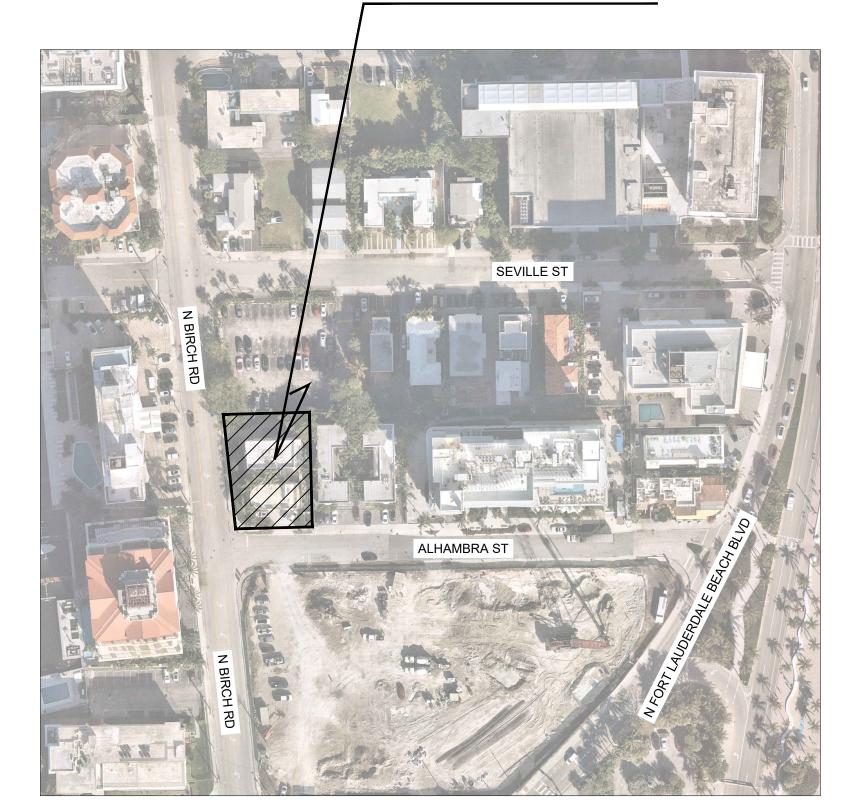
CITY OF FORT LAUDERDALE PUBLIC WORKS 700 NW 19TH AVENUE FORT LAUDERDALE, FL 33311 (954) 828-6982 CONTACT: ROBERTO I. BETANCOURT

FIRE PROTECTION:

CITY OF FORT LAUDERDALE FIRE PREVENTION SERVICES 528 NW 2ND STREET FORT LAUDERDALE, FL 33301 (954) 828-6370

BUILDING DEPARTMENT:

CITY OF FORT LAUDERDALE BUILDING DEPARTMENT 700 NW 19TH AVENUE FORT LAUDERDALE, FL 33311 (954) 828-6520



VICINITY MAP	
GRAPHIC SCALE IN FEET	
0 50 100 200	NORTH
SCALE: 1"=100'	Ţ



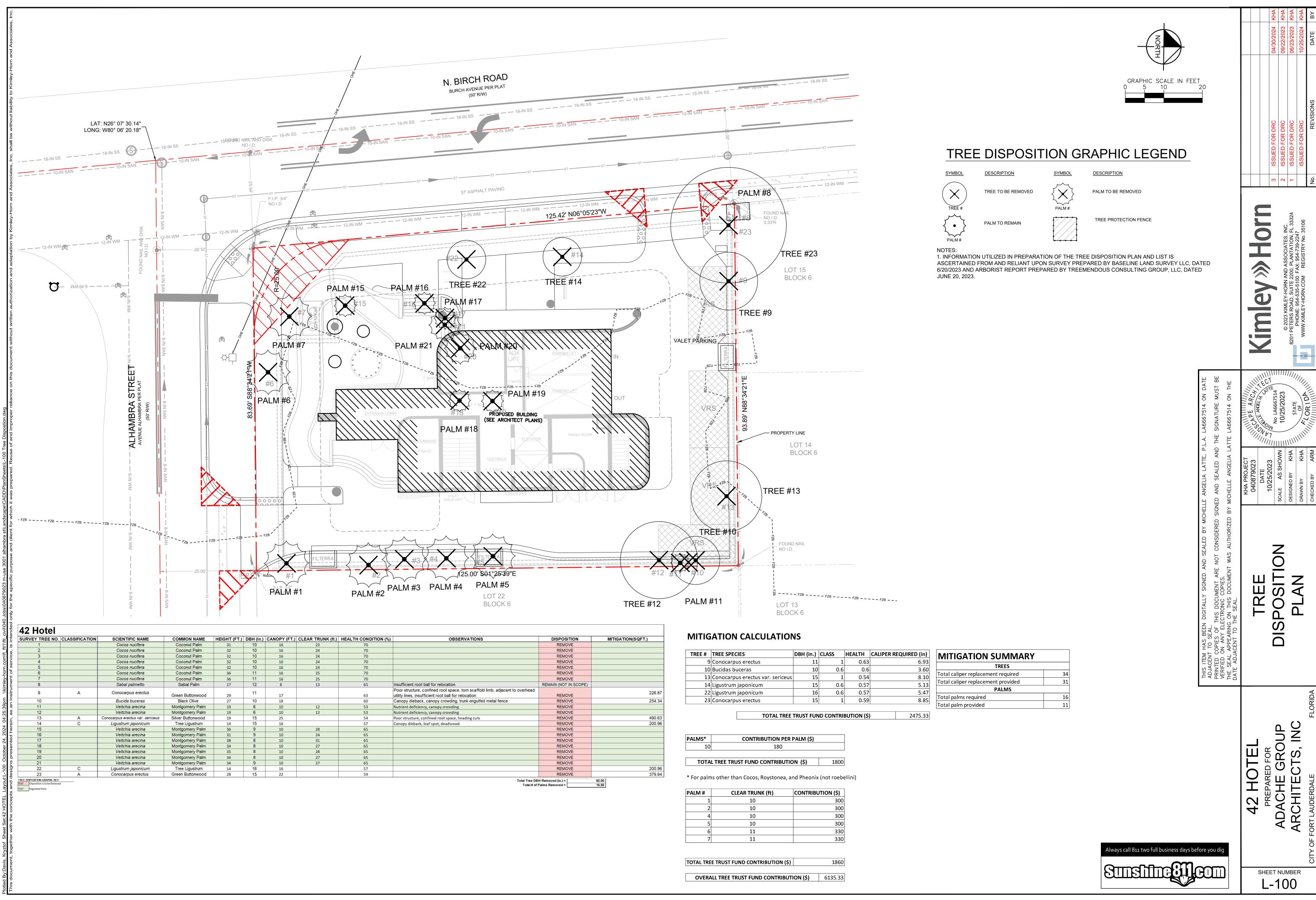
	Sheet List Table
Sheet Number	Sheet Title
L-000	COVER SHEET
L-100	TREE DISPOSITION PLAN
L-150	TREE DISPOSITION NOTES AND DETAILS
L-200	HARDSCAPE PLAN
L-250	HARDSCAPE DETAILS
L-300	LANDSCAPE PLAN
L-301	LIMITS OF STRUCTURAL SOIL
L-302	PLANT SCHEDULE AND CODE TABLE
L-350	LANDSCAPE DETAILS
L-351	LANDSCAPE SPECIFICATIONS
IR-400	IRRIGATION HYDROZONES
IR-450	IRRIGATION DETAILS
IR-451	IRRIGATION DETAILS
IR-452	IRRIGATION SPECIFICATIONS
IR-453	IRRIGATION SPECIFICATIONS

SURVEY NOTES:

LOCATIONS ARE LIMITED TO VISIBLE IMPROVEMENTS ONLY AS SHOWN HEREON. LANDS SHOWN HEREON WERE NOT ABSTRACTED BY THE SURVEYOR FOR EASEMENTS, RIGHT-OF-WAYS OF RECORD, OTHER RESTRICTIONS OR RESERVATIONS. DESCRIPTIONS PROVIDED BY CLIENT, OR THEIR REPRESENTATIVE. ALL DOCUMENTS ARE RECORDED IN SAME COUNTY AS PROPERTY LOCATION UNLESS OTHERWISE NOTED. ROOF OVERHANGS NOT LOCATED. SURVEY MEETS ACCURACY STANDARD FOR SUBURBAN SURVEYS (1 FOOT IN 7500 FEET). ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD'88, UNLESS OTHERWISE NOTED.



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TREE REMOVAL AND TREE TO REMAIN PRUNING SPECIFICATIONS PART 1 - EXPLANATION OF NATURAL RESOURCE PRESERVATION PROCEDURES The sequence of operation is critical to the protection of the trees. A. Tree canopy pruning is to compensate for root loss and damage. B. Fertilization is to stimulate root systems to heal quickly and grow back in root-pruned areas. It also produces faster availability of food to a root system that is less efficient due to the damage incurred. C. Root pruning is to remove the roots with a trenching procedure that is less damaging to the roots than regular construction. PART 2 - DEFINITIONS A. Natural Resource - Existing trees or palms. B. Critical Root Zone - The mass of roots surrounding a tree that is required by the tree to live. The critical root zone is often much larger than the canopy. The critical root zone for each tree or palm within the project limits to be determined by the Contractor's Certified Arborist. C. DBH - Diameter Breast High - Indicates the location on the trunk, approximately 4.5' above ground, to measure the diameter of a tree. D. Grade - The grade of a tree refers to the overall health and appearance of the tree. The grades range from "A" being excellent to "D" being hazardous. E. Preserved Trees - Trees that are to be saved/remain in place. F. Owner's Representative - A representative, hired and paid for by the owner, that supervises the construction of the procedures shown on the tree disposition plans. G. Protection Zones/Areas - Any area enclosed partially or completely by a tree protector barrier/fence H. Contractor's Certified Arborist - an independent ISA Certified Arborist, hired and paid for by the contractor, that supervises the construction of the procedures shown on the tree disposition plans. PART 3 - PRODUCTS FOR TREE TREATMENT 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 strict adherence to manufacturer's directions, unless otherwise directed in these drawings. Refer to "Part 4B" below. A. Chemical Treatments. 1. Recommended Fertilizer: a. "XL Injecto Feed", product of Doggett Corp., Lebanon, New Jersey (908) 236-6335. Apply a 12/24/24 ratio with a dilution rate 1/3 more water than specified on bag. 2. Recommended Wetting Agent: a. "APSA-80", product of Amway Corp. (800) 253-7088. Mycorrhizal Treatment: a. Plant Health Care, Inc. (800) 421-9051. Products of the same type from other sources shall not be excluded, provided they possess like physical and functional characteristics and are approved by the Project Landscape Architect. B. Insecticide Treatments. 1. "Astro", a product of FMC Corporation. (800) 321-1362. C. Tree Protector Barrier Material. 1. Six (6) foot tall orange vinyl mesh construction fence supported by eight (8) foot tall metal T-Bar Posts and Post Caps. 2. The tree protector barrier shall have a two (2) foot by two (2) foot "tree protection zone" sign affixed to the fence every twenty (20) feet placed in such a manner to be clearly visible to the construction workers. The sign must be made up of weather resistant material. 3. The eight (8) foot tall metal T-Bar Post and Post Cap shall be placed a maximum of six (6) foot intervals. PART 4 - EXECUTION A. Tree Canopy/Root Pruning Operation 1. Trees to be pruned shall include only trees affected by construction or as designated on the tree disposition list. This item is to be coordinated by the Contractor's Certified Arborist with the Owner's Representative. 2. All pruning shall be done in accordance with ANSI A300 (Part 1) Pruning. 3. The Contractor's Certified Arborist must be present during all pruning operations. 4. Pruning shall consist of the following methods: a. Cleaning b. Interfering branch removal. d. Root pruning. B. Fertilization Operation 1. Only trees affected by construction (canopy and/or root pruning) shall be fertilized. 2. Trees specified to receive fertilizer shall be treated during the time of year as recommended by the Contractor's Certified Arborist. a. Mix fertilizer with a dilution rate 1/3 more water than label instructions into a tank with agitation capability (15lbs. = 133 Gallons). b. Mix Wetting Agent at a rate of 5 oz. Per 100 gallons of fertilizer solution into same tank with fertilizer. Agitate mix. c. Inject the mixture with a hydraulic injection system set at 100 to 150 p.s.i. for sandy soils, 200 p.s.i. for silt/clay soils, 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. Critical Root Zone areas shall be injected, where possible, in the Critical Root Zone area plus 2' beyond Critical Root Zone, but not beyond Root Prunes. e. Fertilizer shall be installed prior to installation of any aeration systems (if applicable). AT THE REQUEST OF THE OWNER'S REPRESENTATIVE. EMPTY PRODUCT BAGS TO BE RETURNED TO THE OWNER'S REPRESENTATIVE FOR PROOF OF USE. 3. Injectable Fertilizer Treatment. a. Mix fertilizer with a dilution rate 1/3 more water than label instructions into a tank with agitation capability (15lbs. = 133 Gallons). b. Mix Wetting Agent at a rate of 5 oz. Per 100 gallons of fertilizer solution into same tank with fertilizer. Agitate mix. c. Inject the mixture with a hydraulic injection system set at 100 to 150 p.s.i. for sandy soils, 200 p.s.i. for silt/clay soils, 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. EMPTY PRODUCT BAGS TO BE STOCKPILED FOR INSPECTION BY OWNER'S REPRESENTATIVE PRIOR TO DISPOSAL. 4. Inoculant & Biostimulant. a. Use one 3 oz. Packet of MycorTree Tree Saver Transplant Mycorrhizal Transplant Inoculant for every one (1)foot diameter of root ball. Mix inoculant in 10" wide topsoil ring around the root ball. b. Mix one 4 oz. Bag of MycorTree Tree Saver Injectable Mycorrhizal Inoculant and 4 packs (to equal 1 pound) PHC BioPack per 100 gallons of water. c. Agitate for 10 minutes. d. Inject the mixture with a hydraulic injection system set at 100 to 150 p.s.i. for sandy soils, 200 p.s.i. for silt/clay soils, 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. See transplant details on this sheet for injection locations. EMPTY PRODUCT BAGS TO BE STOCKPILED FOR INSPECTION BY OWNER'S REPRESENTATIVE PRIOR TO DISPOSAL. C. Insecticide Operation

1. Apply "Astro" as a topical solution as directed by the Contractor's Certified Arborist

2. Follow all manufacturers' recommendations concerning application when applying "Astro"

2. Trenching equipment that will turn at high RPM's is preferred. Trenching equipment is to be

Contractor. Care must be taken not to damage the existing trees marked to remain.

from the area and any swimming pools should be covered (if applicable).

with sterile equipment, loopers, or chain saw after trenching is complete.

"Astro" 2-3 months after initial application utilizing same procedure

potential contamination of soils.

used to perform all root pruning operations.

D. Root Pruning Trenching Operation

4. Burn pits are not allowed.

Notify Owner's Representative if an infestation is noticed. Apply around base of trunk to soil line. trunk and any limb 1/3 the size of the trunk to 25'-30' high. Insure complete coverage. Reapply

Read all warning labels. Any pets, as well as, the pets food and water bowls should be removed

3. Contractor shall ensure no mixing of chemicals occurs without protective measures to prevent spillage and

3. The trench shall be backfilled and compacted immediately, as directed by the Contractor's Certified Arborist. 4. Phased root pruning timeframes vary by species. Contractor's certified arborist shall direct pruning schedule.

1. Trenching locations shall be approved in the field by the Owner's Representative and the Contractor's Certified Arborist.

A minimum depth of three feet is required or as determined by Contractor's Certified Arborist. Clean cut roots in trench on tree side

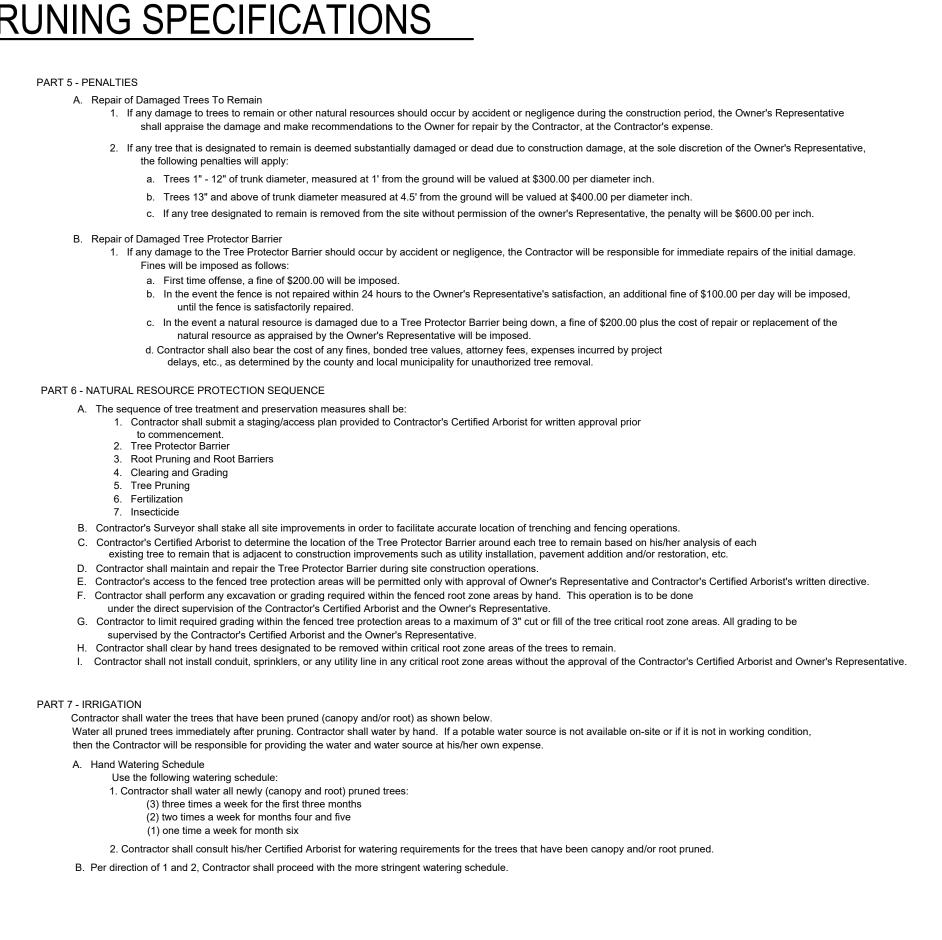
2. Tree Protector Barrier is to be placed by the Contractor around each tree to remain as directed by the Contractor's Certified Arborist.

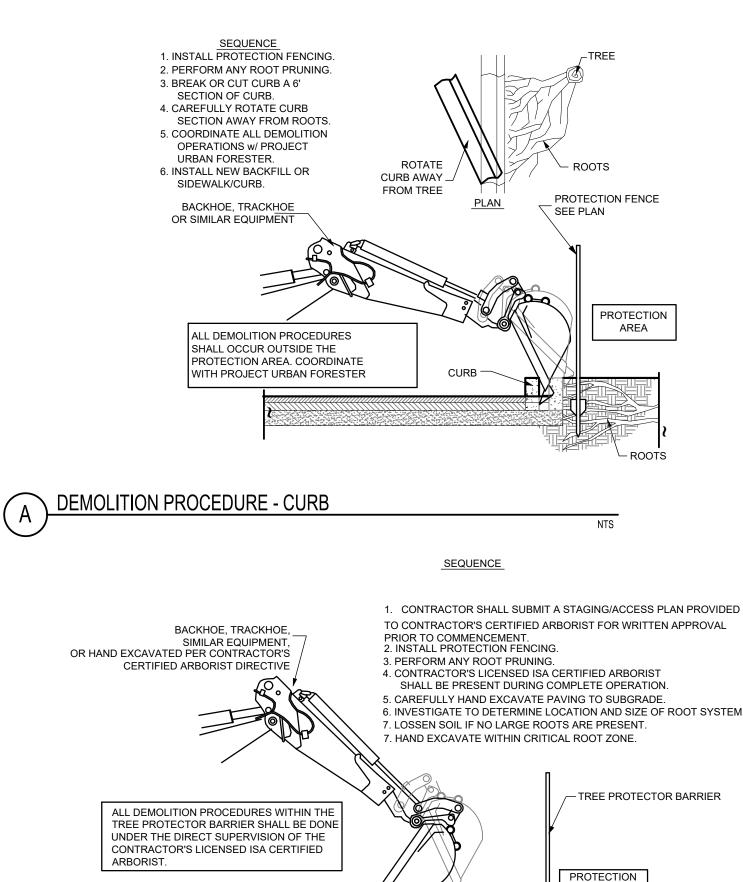
removed and is in an area where compaction is critical, the tree shall be felled with a chain saw and stump removed by the

2. If Tree Protector Barrier is damaged, repair is to be performed immediately. Care must be taken not to damage the trees to remain.

3. Contractor shall remove and haul away from the job site all wood generated from tree removals, including stumps, the same day the removal happens.

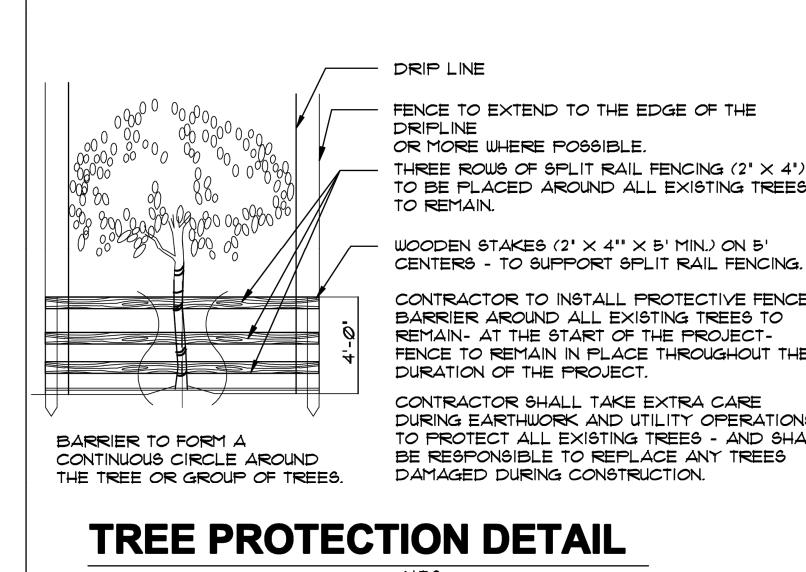
1. Contractor shall remove and discard all trees shown as "Remove" on the Tree Disposition Plan and the Tree Disposition List. All trees shown to be removed shall be felled with a chain saw and stump ground 6" below surface. Any tree shown to be





6. INVESTIGATE TO DETERMINE LOCATION AND SIZE OF ROOT SYSTEM. TREE PROTECTOR BARRIER

DEMOLITION PROCEDURE - PAVEMENT



THREE ROWS OF SPLIT RAIL FENCING $(2" \times 4")$ TO BE PLACED AROUND ALL EXISTING TREES CONTRACTOR TO INSTALL PROTECTIVE FENCE FENCE TO REMAIN IN PLACE THROUGHOUT THE DURING EARTHWORK AND UTILITY OPERATIONS TO PROTECT ALL EXISTING TREES - AND SHALL

TREE PROTECTION FENCE

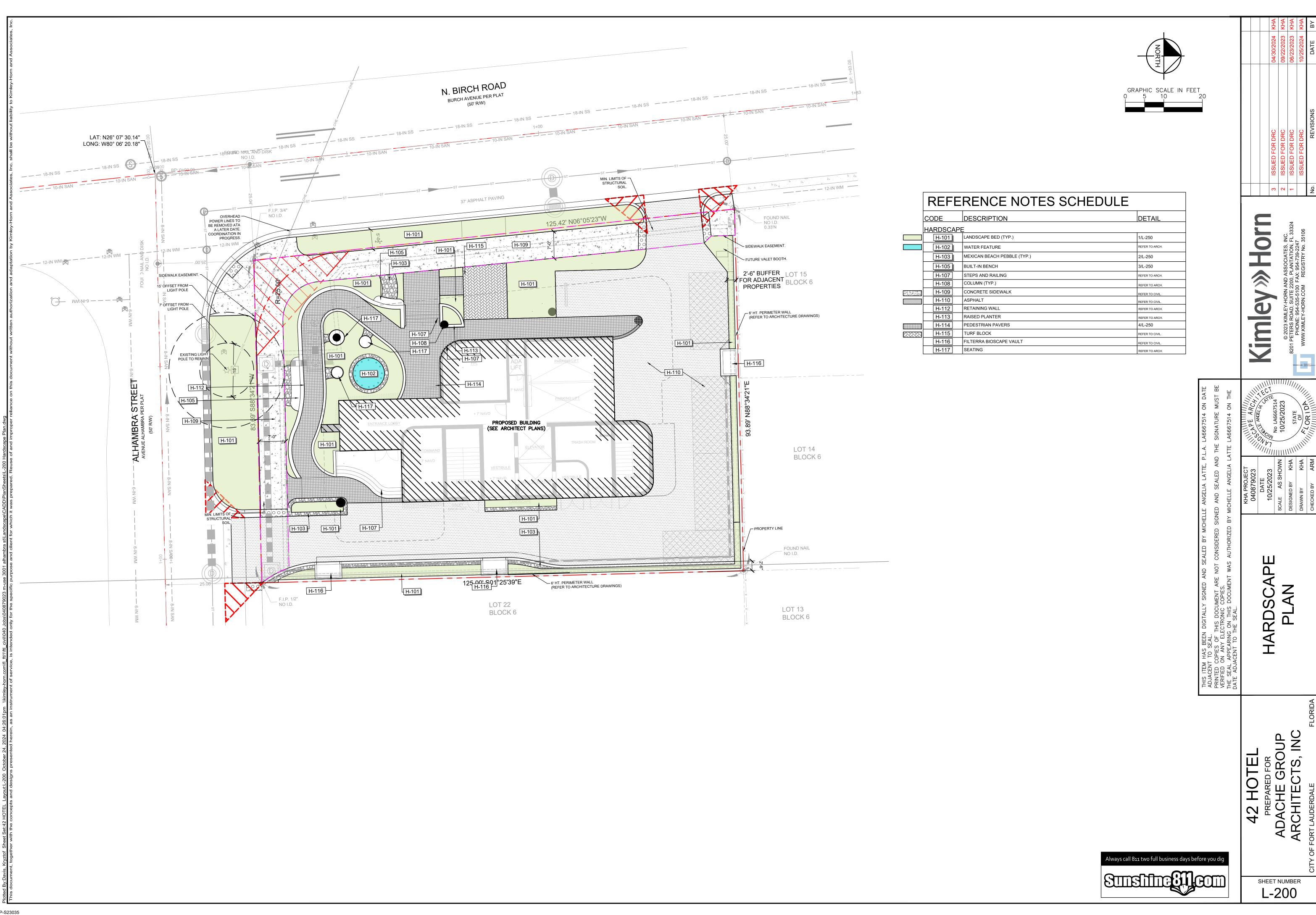


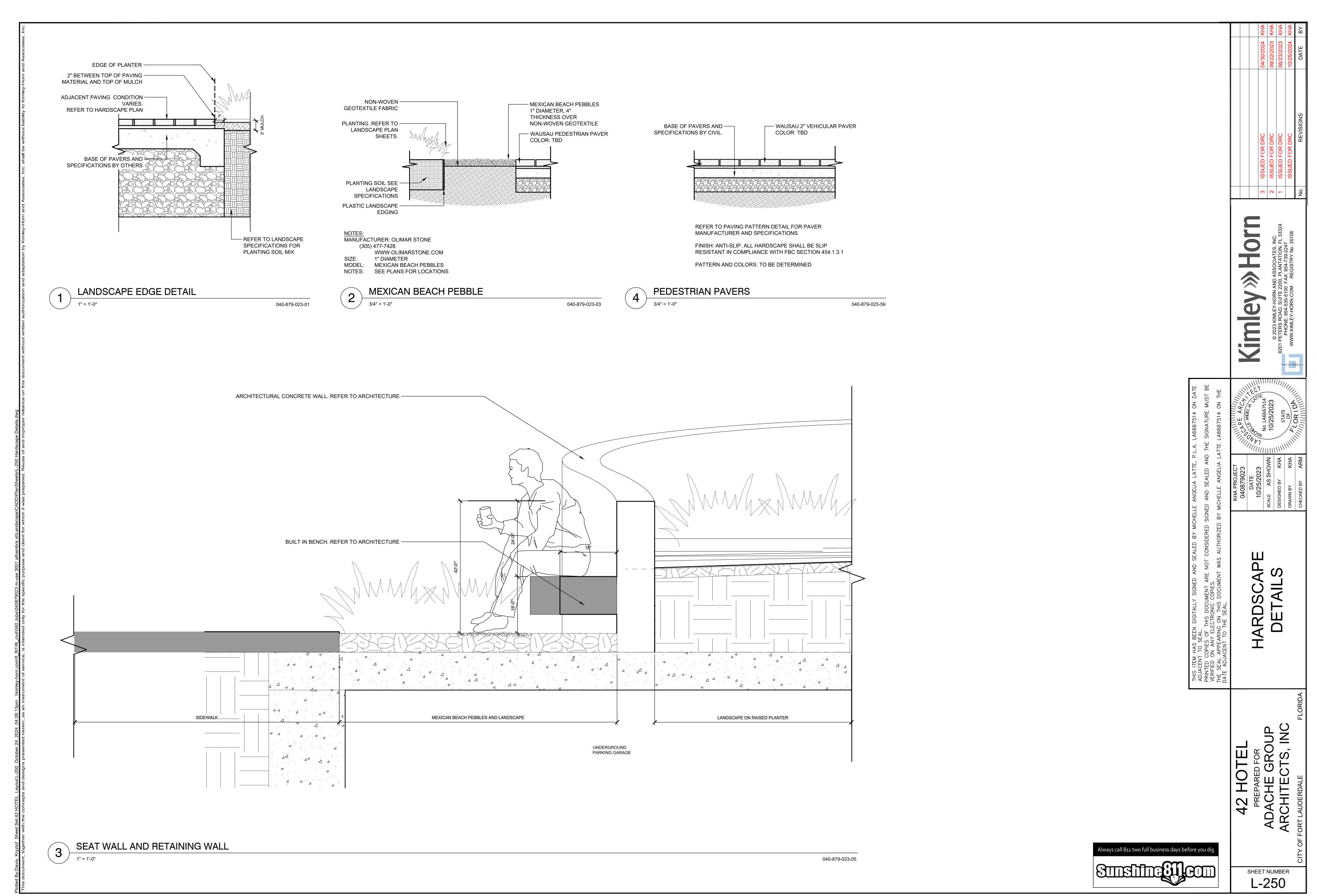
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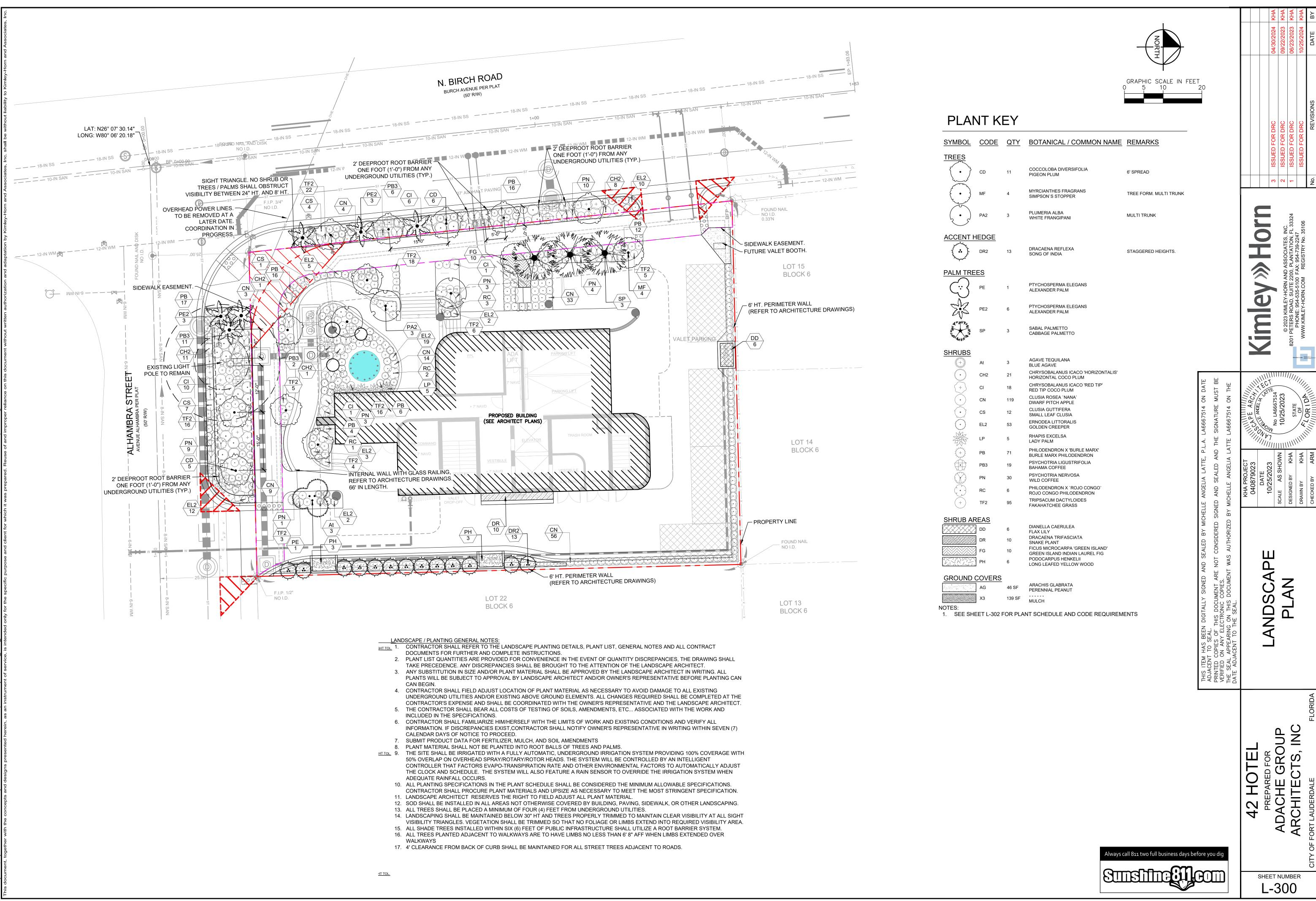
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Exhibit 4C, Part 3 of 5 Page 10 of 18

SHEET NUMBER L-150

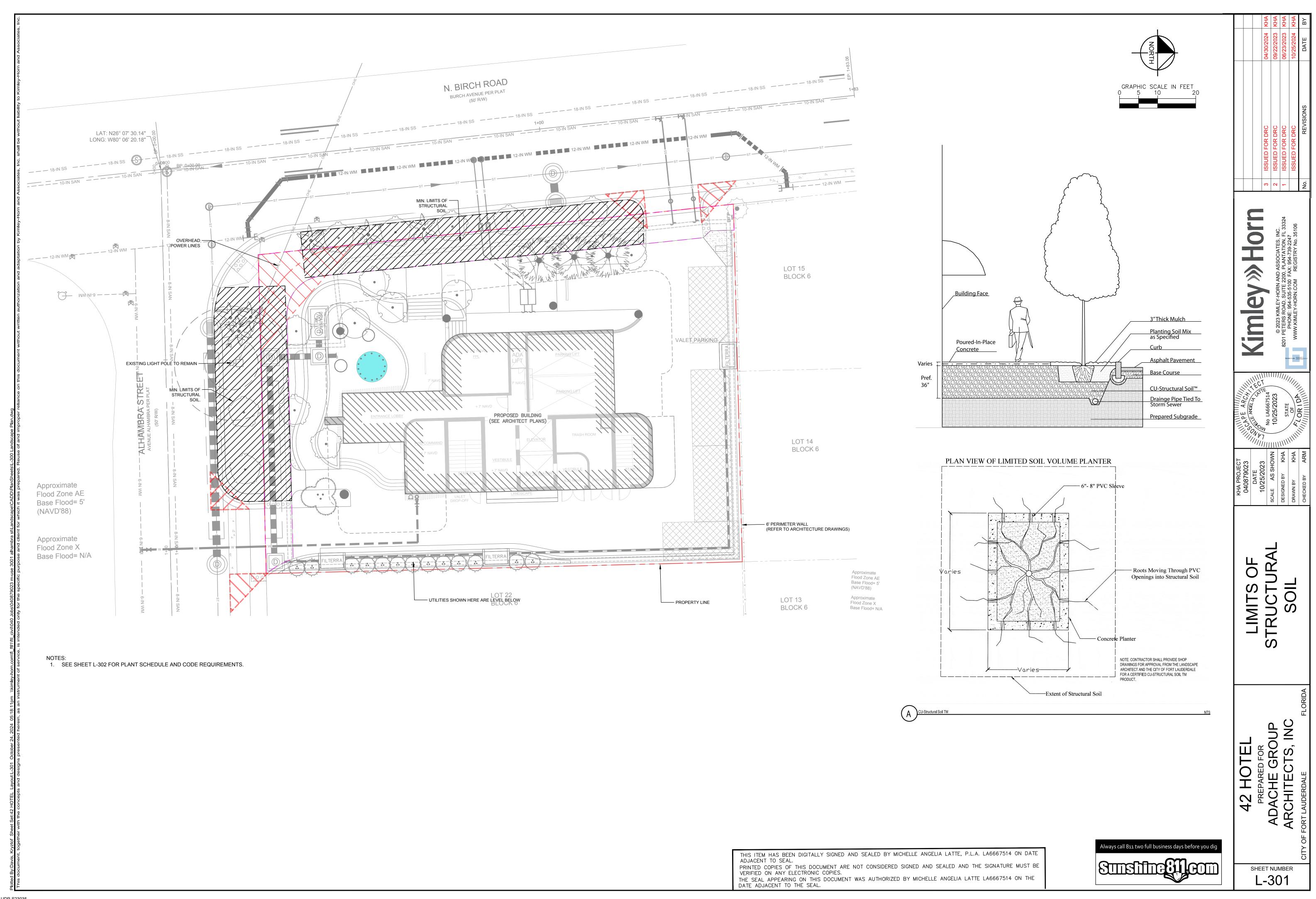


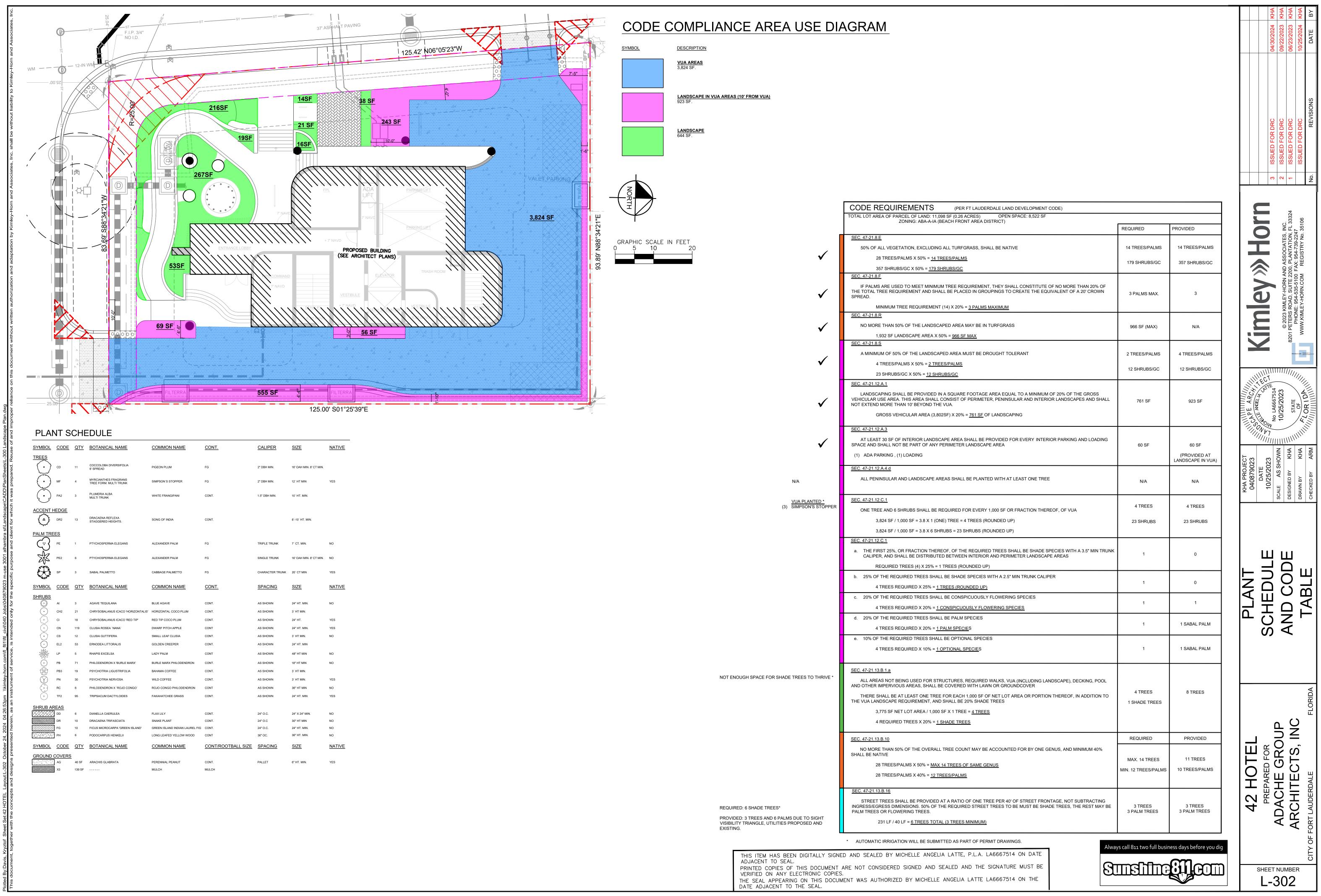


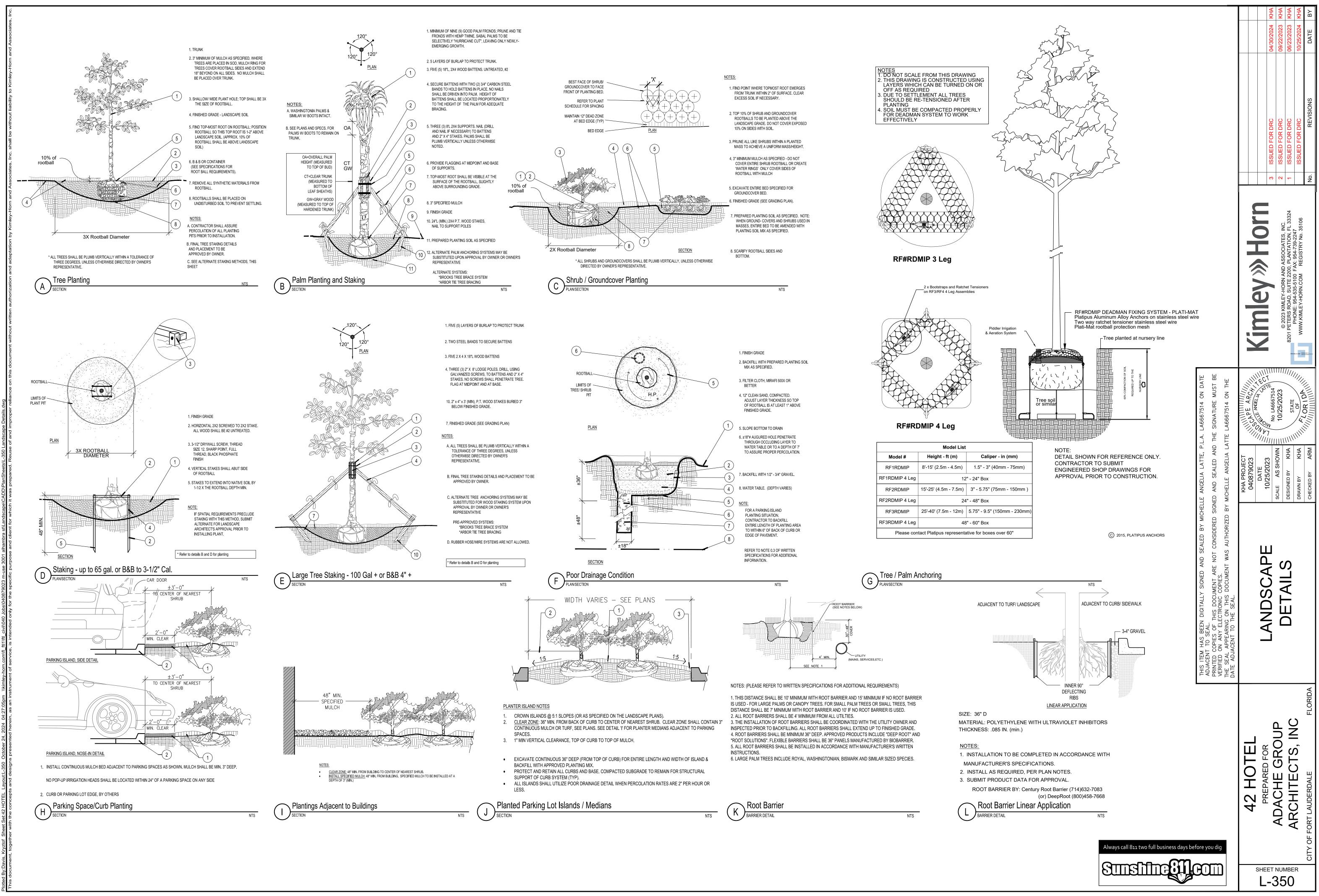


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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

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

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

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALKS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

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 INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY

COMMENCE.

TOPSOIL MIX AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS PLANTS PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY) INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.

CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS.

FERTILIZER PRODUCT DATA INNOCULANT PRODUCT DATA

HERBICIDE PRODUCT DATA

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES. 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE

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

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 QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

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

1, SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 70% COARSE SAND AND 30% FLORIDA PEAT, AS

2. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL HAVE A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.

3. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, ORTONA MINED. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TEST FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.

4. CONTRACTOR SHALL SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

5. CONTRACTOR SHALL PROVIDE PH TEST RESULT FOR ALL MIX COMPONENTS.

6. CONTRACTOR SHALL PROVIDE PENETROMETER ON-SITE AT ALL TIMES FOR COMPACTION INSPECTION AT THE DISCRETION OF THE

7. PENETROMETER CRITERIA / SPECIFICATION SHALL RANGE FROM APPROX. 75 PSI TO LESS THAN 300 PSI OR AS DETERMINE BY LANDSCAPE ARCHITECT.

8. SOIL SHALL BE SUPPLIED BY ATLAS PEAT & SOIL INC. 9621 STATE RD, BOYNTON BEACH, FLORIDA 33472. PHONE: 561-734-7300.

9. FINAL MIX SHALL BE TESTED TO HAVE A SATURATED WEIGHT OF NO MORE THAN 110 POUNDER PER CUBIC FOOT WHEN COMPACTED TO 85% STANDARDS PROCTOR.

F. WATER

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

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

G. FERTILIZER

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.

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: "FLORIMULCH" OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING, PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) 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 BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING RANSPORTATION AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): 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.

J. CONTAINER GROWN STOCK

1. 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, FLORIDA #1 OR BETTER.

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

3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S 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 A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

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 LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

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

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

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE 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.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.

3. 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". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.

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

5. GENERAL: 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 ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. 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

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

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, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM

13. PRUNING: 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 LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" TO ACHEIVE SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.

17. HERBICIDE WEED CONTROL: 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 MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. 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

2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.

3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY. 4. SODDING

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.

SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL 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-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

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

R. PLANT MATERIAL MAINTENANCE

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

S. MAINTENANCE (ALTERNATE BID ITEM)

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

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.

2. REPLACEMENT: 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 PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.

3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

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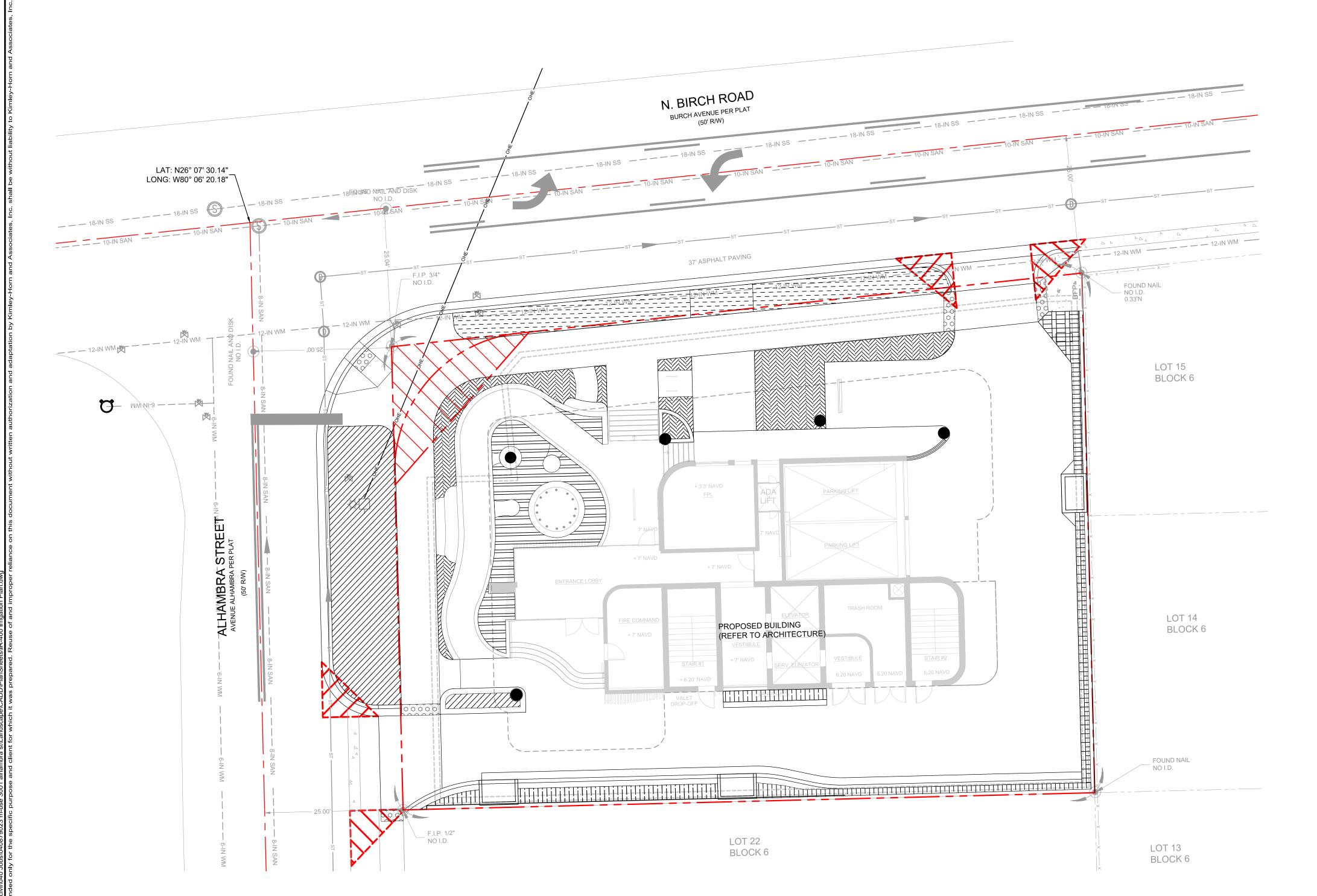
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PZB Exhibit 3

SHEET NUMBER IR-400



AUTOMATIC IRRIGATION WILL BE SUBMITTED AS PART OF PERMIT DRAWINGS.

IRRIGATION NOTES

- 1. REFER TO LANDSCAPE PLANS FOR THE LOCATIONS OF PLANTING MATERIAL.
- 2. INSTALLATION WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
- 3. ALL PROPOSED TREES AND SHRUBS SHALL BE IRRIGATED BY A 100% AUTOMATIC UNDERGROUND IRRIGATION
- IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.
- IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES.
- 6. IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS SHALL BE MINIMIZED.
- A RAIN SENSOR OR SOIL MOISTURE SENSOR SHALL BE INSTALLED WITH THE IRRIGATION CONTROL SYSTEM, INSTALLED AT A LOCATION TO BE COORDINATED WITH OWNER.
- 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.
- IRRIGATED AREAS SHALL BE FULLY IRRIGATED WITH DRIP IRRIGATION. ALL PROPOSED TREES AND PALMS SHALL BE IRRIGATED WITH TREE BUBBLERS.
- 10. CONTRACTOR SHALL PROVIDE LANDSCAPE ARCHITECT WITH SHOP DRAWINGS DEPICTING IRRIGATION DESIGN FOR APPROVAL PRIOR TO CONSTRUCTION.
- 11. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
- 12. CONTRACTOR SHALL REFER TO THE IRRIGATION DETAILS, IRRIGATION SCHEDULE, SPECIFICATIONS, AND ALL
- CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
- IRRIGATION QUANTITIES ARE PROVIDED FOR CONVENIENCE, IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
- 14. ANY SUBSTITUTIONS FOR SPECIFIED IRRIGATION EQUIPMENT MUST BE APPROVED BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
- 15. CONTRACTOR SHALL FIELD ADJUST LOCATION OF IRRIGATION EQUIPMENT AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL FIELD ADJUSTMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- 16. CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN
- WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED. 17. IRRIGATION PLAN IS DIAGRAMMATIC, EQUIPMENT SHOWN ON IMPERVIOUS SURFACES IS FOR GRAPHIC CLARITY UNLESS OTHERWISE NOTED. CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITHIN LANDSCAPE AREAS IN
- 18. LATERAL, MAINLINE, BUBBLER, AND VALVE LOCATIONS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.
- 19. RUN ALL PIPES THROUGH PLANTER AREAS AND ALONGSIDE OTHER SLEEVING TO MAXIMUM EXTENT POSSIBLE.
- 20. TRENCH ALONG SIDEWALKS, CURBS, AND FENCES AS MUCH AS POSSIBLE.
- 21. AVOID TRENCHING ALONG DRIPLINES OF EXISTING TREES TO MAXIMUM EXTENT POSSIBLE. IF IT IS NOT POSSIBLE TO AVOID TRENCHING UNDER DRIPLNES, CONTRACTOR IS TO NOTIFY LANDSCAPE ARCHITECT PRIOR TO TRENCH EXCAVATION FOR APPROVAL.
- 22. GROUP AND LOCATE VALVES INSIDE PLANTER AREAS (TYP).

PROPERTY LIMITS.

23. ZONES SHALL BE SEPARATED BY WATER NEED AND EQUIPMENT. BUBBLERS, DRIPLINES, AND SPRAYS SHALL BE SEPARATE.

LOW WATER DUE TO BEING IN A SHADED AREA. INTERIOR GARDEN 341.4 S.F. SHADED BY ARCHITECTURAL BUILDING OVERHANG. MEDIUM MAINTENANCE. NORTH FACING WITH WALL. HIGH SUN EXPOSURE. MEDIUM MAINTENANCE. 157.3 S.F. 629.5 S.F.

IRRIGATION SCHEDULE

DESCRIPTION

SYMBOL

SOUTH FACING, RIGHT OF WAY LOW MAINTENANCE PLANTING. SPRAYS OR AS ALLOWED BY CITY. WEST FACING, PRIVATE PROPERTY 505.9 S.F. DRIP IRRIGATION. LOW MAINTENANCE PLANTING.

WEST FACING, RIGHT OF WAY LOW MAINTENANCE PLANTING. SPRAYS OR AS ALLOWED BY CITY.

445.8 S.F.

COVERED BY NEIGHBOR BUILDING. HIGH MAINTENANCE PLANTING BUT

345.1 S.F.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHELLE ANGELIA LATTE, P.L.A. LA6667514 ON DATE ADJACENT TO SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE

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DATE ADJACENT TO THE SEAL.