

· i								
. <b>.</b>	TRE	E DISPOSITION						
s ====================================		COMMON NAME	BOTANICAL NAME	DBH	HT	CONDITION	DISPOSITION	MITIGATION
000	1. 2.	SLASH PINE CARROTWOOD	PINUS ELLIOTTII CUPANIOPSIS ANACARDIOIDES	11.5"		60% INVASIVE	REMAIN REMOVE	NOT REQUIRED
io ≰	∠. 3.	SABAL PALM	SABAL PALMETTO		141	70%	REMAIN	NOT REQUIRED
	4.	SABAL PALM	SABAL PALMETTO		14'	70%	REMAIN	
5	5.	CARROTWOOD	CUPANIOPSIS ANACARDIOIDES			INVASIVE	REMOVE	NOT REQUIRED
□    -	6.	CARROTWOOD	CUPANIOPSIS ANACARDIOIDES			INVASIVE	REMOVE	NOT REQUIRED
p E	7.	CARROTWOOD	CUPANIOPSIS ANACARDIOIDES			INVASIVE	REMOVE	NOT REQUIRED
<u> </u>	8. 9.	CARROTWOOD CARROTWOOD	CUPANIOPSIS ANACARDIOIDES CUPANIOPSIS ANACARDIOIDES			INVASIVE INVASIVE	REMOVE REMOVE	NOT REQUIRED NOT REQUIRED
<u></u>	10.	CARROTWOOD	CUPANIOPSIS ANACARDIOIDES			INVASIVE	REMOVE	NOT REQUIRED
= 0 0	11.	LIVE OAK	QUERCUS VIRGINIANA	8.75"		50%	REMAIN	
=	12.	CARROTWOOD	CUPANIOPSIS ANACARDIOIDES			INVASIVE	REMOVE	NOT REQUIRED
0		LIVE OAK	QUERCUS VIRGINIANA	10.75"		70%	REMAIN	
<b>≥</b> υ	14.	CARROTWOOD	CUPANIOPSIS ANACARDIOIDES			INVASIVE	REMOVE	NOT REQUIRED
<u> </u>	15. 16.	CARROTWOOD CARROTWOOD	CUPANIOPSIS ANACARDIOIDES CUPANIOPSIS ANACARDIOIDES			INVASIVE INVASIVE	REMOVE REMOVE	NOT REQUIRED NOT REQUIRED
SUS	17.	LIVE OAK	QUERCUS VIRGINIANA	11"		60%	REMAIN	NOT REGUIRED
ပ် =		LIVE OAK	QUERCUS VIRGINIANA	15.5"		70%	REMAIN	
, S		LIVE OAK	QUERCUS VIRGINIANA	45"		40%	REMAIN	
	20.	LIVE OAK	QUERCUS VIRGINIANA	18.5"		50%	REMAIN	
A S S S S S S S S S S S S S S S S S S S	21.	DAHOON HOLLY	ILEX CASSINE	6"		50%	REMAIN	
, D		LIVE OAK	QUERCUS VIRGINIANA	15.5"		60%	REMAIN	
5		LIVE OAK	QUERCUS VIRGINIANA	14"		60%	REMAIN	
ō L		LIVE OAK	QUERCUS VIRGINIANA	11" 17"		50%	REMAIN	
- - -		LIVE OAK LIVE OAK	QUERCUS VIRGINIANA QUERCUS VIRGINIANA	21"		60% 40%	REMAIN REMAIN	
<u> </u>		BLACK OLIVE	BUCIDA BUCERAS	27"		30%	REMOVE	TREE FUND
δο		WILD TAMARIND	LYSILOMA LATISILIQUUM	14.5"		60%	REMOVE	ON SITE
	29.	LAUREL OAK	QUERCUS LAURIFOLIA	12.5"		40%	REMOVE	TREE FUND
D d	30.	WILD TAMARIND	LYSILOMA LATISILIQUUM	23"		40%	REMOVE	TREE FUND
DD		LIVE OAK	QUERCUS VIRGINIANA	12"		50%	REMAIN	
ding		LIVE OAK	QUERCUS VIRGINIANA	13.5"		50%	REMAIN	
5		LIVE OAK	QUERCUS VIRGINIANA	13.5"		70%	REMAIN	01 01=
I D Z L		LIVE OAK	QUERCUS VIRGINIANA	11.5"		70%	REMOVE	ON SITE
ō I		LIVE OAK LIVE OAK	QUERCUS VIRGINIANA QUERCUS VIRGINIANA	12" 8"		70% 20%	REMOVE REMOVE	ON SITE NOT REQUIRED
		BLACK OLIVE	BUCIDA BUCERAS	0 18.5"		20% 60%	REMOVE	ON SITE
		LIVE OAK	QUERCUS VIRGINIANA	16.5"		60%	REMOVE	ON SITE
×		LIVE OAK	QUERCUS VIRGINIANA	11"		50%	REMOVE	TREE FUND
nou.			CARPENTARIA ACUMINATA		18'	70%	REMOVE	1 PALM
<u>~</u> ≽	41.	CARPENTERIA PALM	CARPENTARIA ACUMINATA		18'	70%	REMOVE	1 PALM
		CARPENTERIA PALM	CARPENTARIA ACUMINATA		18'	70%	REMOVE	1 PALM
		SABAL PALM	SABAL PALMETTO		14'	70%	RELOCATE	
D		SABAL PALM SABAL PALM	SABAL PALMETTO		18' 18'	70% 70%	RELOCATE	
Š		SABAL PALM	SABAL PALMETTO SABAL PALMETTO		18 <sup>1</sup>	70% 70%	RELOCATE RELOCATE	
5	47.	ROYAL PALM	ROYSTONEA REGIA		20'	80%	RELOCATE	
D)		ROYAL PALM	ROYSTONEA REGIA		20'	60%	RELOCATE	
		ROYAL PALM	ROYSTONEA REGIA		25'	70%	RELOCATE	
i i	50.	ROYAL PALM	ROYSTONEA REGIA		15'	50%	RELOCATE	
0		SILK OAK	GREVILLEA ROBUSTA	30"		30%	REMOVE	ON SITE
<u>=</u>		LAUREL OAK	QUERCUS LAURIFOLIA	24.5"		50%	REMAIN	
Ē.		SILK OAK	GREVILLEA ROBUSTA	14.75"		20%	REMOVE	NOT REQUIRED
0		LIVE OAK LIVE OAK	QUERCUS VIRGINIANA QUERCUS VIRGINIANA	33.5" 11"		70%	REMAIN REMAIN	
% 		LIVE OAK	QUERCUS VIRGINIANA QUERCUS VIRGINIANA	16"		20% 70%	REMAIN	
r i		BLACK OLIVE	BUCIDA BUCERAS	14"		60%	REMAIN	
Ď.		SILK OAK	GREVILLEA ROBUSTA	15"		40%	REMOVE	TREE FUND
		SABAL PALM	SABAL PALMETTO		15'	70%	REMOVE	1 PALM
S D	60.	LAUREL OAK	QUERCUS LAURIFOLIA	21"		50%	REMOVE	ON SITE
		LAUREL OAK	QUERCUS LAURIFOLIA	13.75"		30%	REMOVE	TREE FUND
5		WILD TAMARIND	LYSILOMA LATISILIQUUM	14"		40%	REMOVE	TREE FUND
<b>&gt;</b>		LIVE OAK	QUERCUS VIRGINIANA	15.5" 10"		70% 50%	REMOVE	ON SITE
<u></u>		LIVE OAK WILD TAMARIND	QUERCUS VIRGINIANA LYSILOMA LATISILIQUUM	10" 18.5"		5 <i>0</i> % 5 <i>0</i> %	REMOVE REMOVE	ON SITE ON SITE
= = =		LAUREL OAK	QUERCUS LAURIFOLIA	8"		50%	REMAIN	ON SITE
D L		LAUREL OAK	QUERCUS LAURIFOLIA	15"		60%	REMAIN	
ວ ນ	68.	LIVE OAK	QUERCUS VIRGINIANA	9"		50%	REMAIN	
od in		BLACK OLIVE	BUCIDA BUCERAS	26"		30%	REMAIN	
2		LIVE OAK	QUERCUS VIRGINIANA	8.5"		40%	REMAIN	
		LIVE OAK	QUERCUS VIRGINIANA	9"		40%	REMAIN	
os		LIVE OAK	QUERCUS VIRGINIANA	13"		30%	REMAIN	
υ 5		BLACK OLIVE SABAL PALM	BUCIDA BUCERAS SABAL PALMETTO	20.5"	14'	60% 70%	REMAIN REMAIN	
<u> </u>		SABAL PALM	SABAL PALMETTO		14" 15"	70% 70%	REMAIN	
S III S		SABAL PALM	SABAL PALMETTO		16'	50%	REMAIN	
D D		SABAL PALM	SABAL PALMETTO		14'	70%	REMAIN	
D L L	78.	LIVE OAK	QUERCUS VIRGINIANA	20"		70%	REMAIN	
		LIVE OAK	QUERCUS VIRGINIANA	8"		30%	REMAIN	
<u>∵</u> ΰ		LIVE OAK	QUERCUS VIRGINIANA	フ"		30%	REMAIN	
∑ >		LIVE OAK	QUERCUS VIRGINIANA	15"		70%	REMAIN	
- -		LIVE OAK	QUERCUS VIRGINIANA QUERCUS VIRGINIANA	8.5" 18"		40% 70%	REMAIN	
ט		LIVE OAK WILD TAMARIND	LYSILOMA LATISILIQUUM	18" 19"		70% 50%	REMAIN REMOVE	ON SITE
		SABAL PALM	SABAL PALMETTO	1 1	16'	70%	RELOCATE	
1118		FICUS	FICUS BENJAMINA	44"	· <del>-</del>	20%	REMOVE	NOT REQUIRED
		SABAL PALM	SABAL PALMETTO		17'	70%	RELOCATE	. —
S D		FICUS	FICUS BENJAMINA	39"		10%	REMOVE	NOT REQUIRED
, 		WILD TAMARIND	LYSILOMA LATISILIQUUM	13"		40%	REMOVE	TREE FUND
ָ ב		WILD TAMARIND	LYSILOMA LATISILIQUUM	25"	1=	60% 70%	REMOVE	ON SITE
D D		SABAL PALM SABAL PALM	SABAL PALMETTO SABAL PALMETTO		15' 20'	70% 70%	RELOCATE RELOCATE	
LI S		SABAL PALM	SABAL PALMETTO		20'	70% 70%	RELOCATE	
<u> </u>		SABAL PALM	SABAL PALMETTO		20'	70%	RELOCATE	
s ngi		SABAL PALM	SABAL PALMETTO		211	70%	RELOCATE	
s e o		SABAL PALM	SABAL PALMETTO		21'	70%	RELOCATE	
D E								

TR	EE FUND INCHES:	
TC	TAL INCHES REMOVED	447"
ТС	TAL INCHES MITIGATED ON SITE	212"
l l	OTAL INCHES NOT REQUIRED FOR MITIGATION ONDITION BELOW 25%)	106"
ТС	TAL TREE FUND INCHES	129"
DE	SH REMOVED 0-8"	64"
DE	SH REMOVED 9-12"	31"
DE	SH REMOVED 13-18"	20"
DE	SH REMOVED 19+"	14"
ТС	TAL TREE FUND INCHES	129"

TREE FUND MITIGATION:	
DBH MITIGATION 0-8" 64" @ \$450 = \$28,880	\$28,8 <i>00</i>
DBH MITIGATION 9-12" 31" @ \$650 = \$20,150	\$20,150
DBH MITIGATION 13-18" 20" @ \$850 = \$16,788	\$16,788
DBH MITIGATION 19+" 14" @ \$1000 = \$14,000	\$14,000
TREE FUND MITIGATION REDUCTION (\$79,738 * 50%) = \$39,869 (ALL TREES REQUIRING TREE FUN HAVE CONDITION 50% OR LESS)	-\$39,869 ND MITIGATION
TOTAL TREE FUND MITIGATION	\$39,869

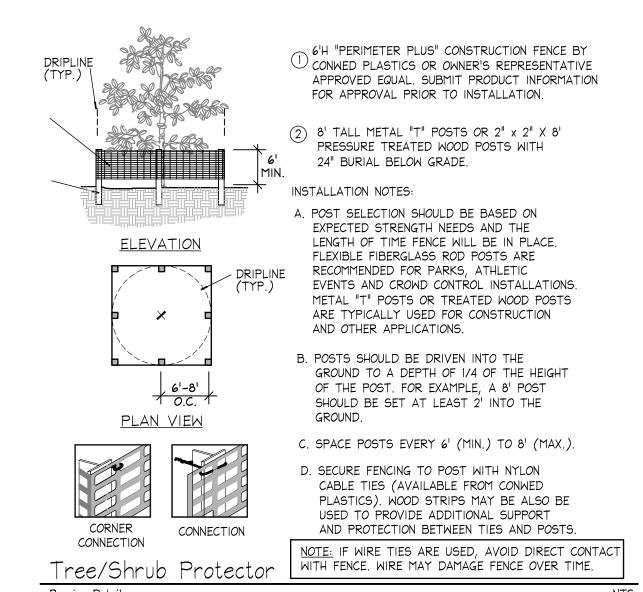
TREE RELOCATION

TREE RELOCATION GENERAL NOTES

- 1. Trees shall be relocated once from their present location to a designated location per the direction of the Project Engineer who shall determine the exact location for each relocated tree and/or palm. Relocation activities will include planting on slopes and/or level grade.
- 2. An ISA Certified Arborist or a Certified Landscape Contractor certified by the Florida Nurserymen and Growers Association shall perform and monitor all tree root pruning and relocation activities.
- 3. Landscape Specifications provided in this construction set shall apply to all relocated trees
- 4. Contractor shall stake and guy all trees at the time of relocation as per details provided in this construction set. Contractor shall be responsible for the maintenance and/or repair of staking and guying during the warranty period. All trees and/or palms shall be braced at least one (1) year or as directed by the Owner's Representative.
- 5. Soil backfill for the installation of trees, palms, shrubs, and ground covers shall be uniform mix of 25% well-rotted compost, 25% topsoil, and 50% clean, weed-free loosened native soil
- 6. Contractor shall submit manufacturers certified analysis for soil amendments to the Owner's
- 7. Contractor shall pay to have the backfill lab tested if requested by the Owner's Representative. Non-soluble wetting agent shall be added to the backfill per the manufacturer's specifications.

1. The Landscape Architect has observed trees that could be impacted by construction of the proposed improvements.

- 2. If construction activities occur within the dripline (or the horizontal extent of the canopy) of a tree, then that tree is a candidate for root pruning.
- 3. Root pruning <u>must</u> occur prior to trenching operations to insure that the roots are cut clean and at proper angles and not mechanically ripped from the earth during construction.
- 4. For trees requiring root pruning, a tree assessment shall be conducted and a root-pruning plan shall be developed by a Certified Arborist or Consulting Arborist. This plan should identify:
- Maximum allowable size of roots to be cut
- Allowable proximity to the trunk for cuts Time of year when root cutting is allowable
- (Note: In Florida, it is best to avoid root pruning during times of the May through September, when the potential for damaging wind loads on trees are greatest.)
- Method for making cuts Mitigating canopy pruning
- Type and extent of necessary structural support
- Schedule for watering/fertilization after pruning
- 5. Implement the root pruning plan per the Arborist's recommendation.



THE PRESENCE OF GROUNDWATER SHOULD BE

INCLUDE CONSIDERATION FOR ADDRESSING THIS

ISSUE AND OBTAINING ALL NECESSARY PERMITS.

ANTICIPATED. CONTRACTOR'S BID SHALL

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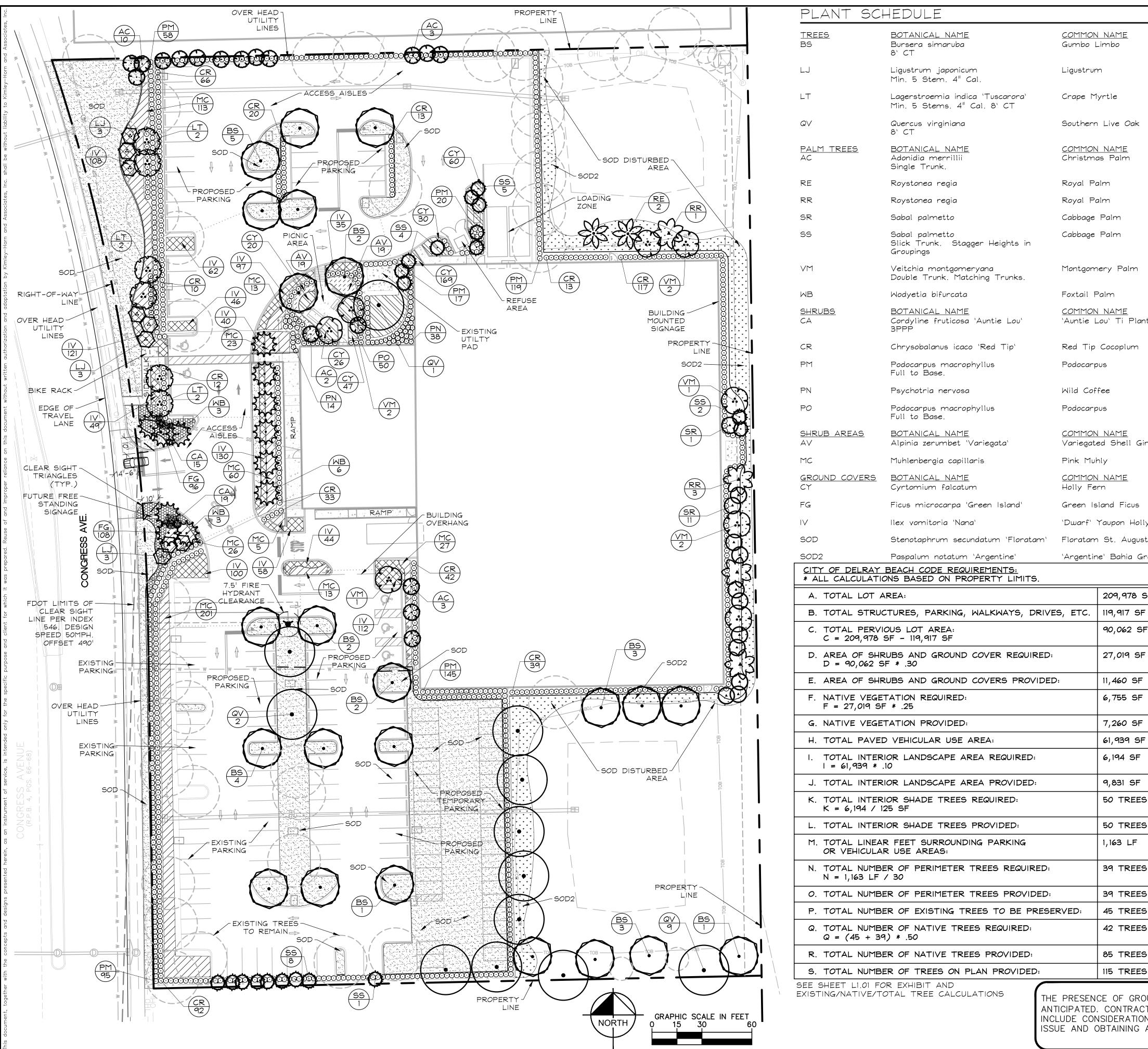
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PLANT SC	HEDULE						
TREES BS	BOTANICAL NAME Bursera simaruba 8' CT	<u>COMMON NAME</u> Gumbo Limbo	<u>CONT</u> Cont.	<u>CAL</u> 4" Cal.	<u>SIZE</u> 16' HT x 7' SPR	<u>QTY</u> 23	NATIVE X
LJ	Ligustrum japonicum Min. 5 Stem. 4" Cal.	Ligustrum	Cont.	MULTI	10'HT x 8'SPR	9	
LT	Lagerstroemia indica 'Tuscarora' Min. 5 Stems. 4" Cal. 8' CT	Crape Myrtle	Cont.	MULTI	16' HT x 7' SPR	6	
QV	Quercus virginiana 8' CT	Southern Live Oak	Cont.	5" Cal.	16' HT x 7' SPR	12	X
PALM TREES AC	<u>BOTANICAL NAME</u> Adonidia merrillii Single Trunk.	<u>COMMON NAME</u> Christmas Palm	<u>CONT</u> F.G.	CAL	<u>SIZE</u> 10'-12' OA	<u>QTY</u> 18	<u>NATIVE</u>
RE	Roystonea regia	Royal Palm	F.G.		16' GW	2	×
RR	Roystonea regia	Royal Palm	Relocated			4	×
SR	Sabal palmetto	Cabbage Palm	Relocated			12	X
SS	Sabal palmetto Slick Trunk. Stagger Heights in Groupings	Cabbage Palm	F.G.		20'-28' CT	20	×
VM	Veitchia montgomeryana Double Trunk. Matching Trunks.	Montgomery Palm	F.G.		14'GW	8	
WB	Wodyetia bifurcata	Foxtail Palm	F.G.		12' GW	12	
<u>SHRUBS</u> CA	<u>BOTANICAL NAME</u> Cordyline fruticosa 'Auntie Lou' 3PPP	<u>COMMON NAME</u> 'Auntie Lou' Ti Plant	<u>CONT</u> Cont.	<u>O.C.</u> 24" O.C.	<u>SIZE</u> 24" HT	<u>QTY</u> 34	<u>NATIVE</u>
CR	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Cont.	24" O.C.	24"x24"	457	X
PM	Podocarpus macrophyllus Full to Base.	Podocarpus	Cont.	24" O.C.	36"x24"	454	
PN	Psychotria nervosa	Wild Coffee	Cont.	36" O.C.	24"×24"	52	X
PO	Podocarpus macrophyllus Full to Base.	Podocarpus	Cont.	24" O.C.	72" HT	50	
SHRUB AREAS AV	BOTANICAL NAME Alpinia zerumbet 'Variegata'	<u>COMMON NAME</u> Variegated Shell Ginger	<u>CONT</u> Cont.	<u>0.C.</u> 36"	<u>SIZE</u> 24"x24"	<u>QTY</u> 38	<u>NATIVE</u>
MC	Muhlenbergia capillaris	Pink Muhly	Cont.	36" O.C.	24"×24"	481	X
GROUND COVERS	<u>BOTANICAL NAME</u> Cyrtomium falcatum	<u>COMMON NAME</u> Holly Fern	<u>CONT</u> Cont.	<u>O.C.</u> 24" O.C.	<u>SIZE</u> 15"x15"	<u>QTY</u> 352	<u>NATIVE</u>
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	Cont.	24" O.C.	15"x15"	204	
IV	Ilex vomitoria 'Nana'	'Dwarf' Yaupon Holly	Cont.	18"O.C.	12"x12"	1,002	×
SOD	Stenotaphrum secundatum 'Floratam'	Floratam St. Augustine Sod	sod			± 23,629	sf
SOD2	Paspalum notatum 'Argentine'	'Argentine' Bahia Grass	sod			± 6,828	sf
	BEACH CODE REQUIREMENTS:	PL	ANTING NOT	ES:			

209,978 SF

90,062 SF

27,019 SF

11,460 SF

6,755 SF

7,260 SF

61,939 SF

6,194 SF

9,831 SF

50 TREES

50 TREES

1,163 LF

39 TREES

39 TREES

45 TREES

42 TREES

85 TREES

115 TREES

ANTICIPATED. CONTRACTOR'S BID SHALL

THE PRESENCE OF GROUNDWATER SHOULD BE

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ISSUE AND OBTAINING ALL NECESSARY PERMITS.

C = 209,978 SF - 119,917 SF

D = 90,062 SF \* .30

F = 27,019 SF \* .25

I = 61,939 \* .10

K = 6,194 / 125 SF

N = 1,163 LF / 30

Q = (45 + 39) \* .50

OR VEHICULAR USE AREAS:

CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.

- PLANT LIST 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.
- PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
- ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
- CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL FAMILIARIZE HIM/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.
- ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

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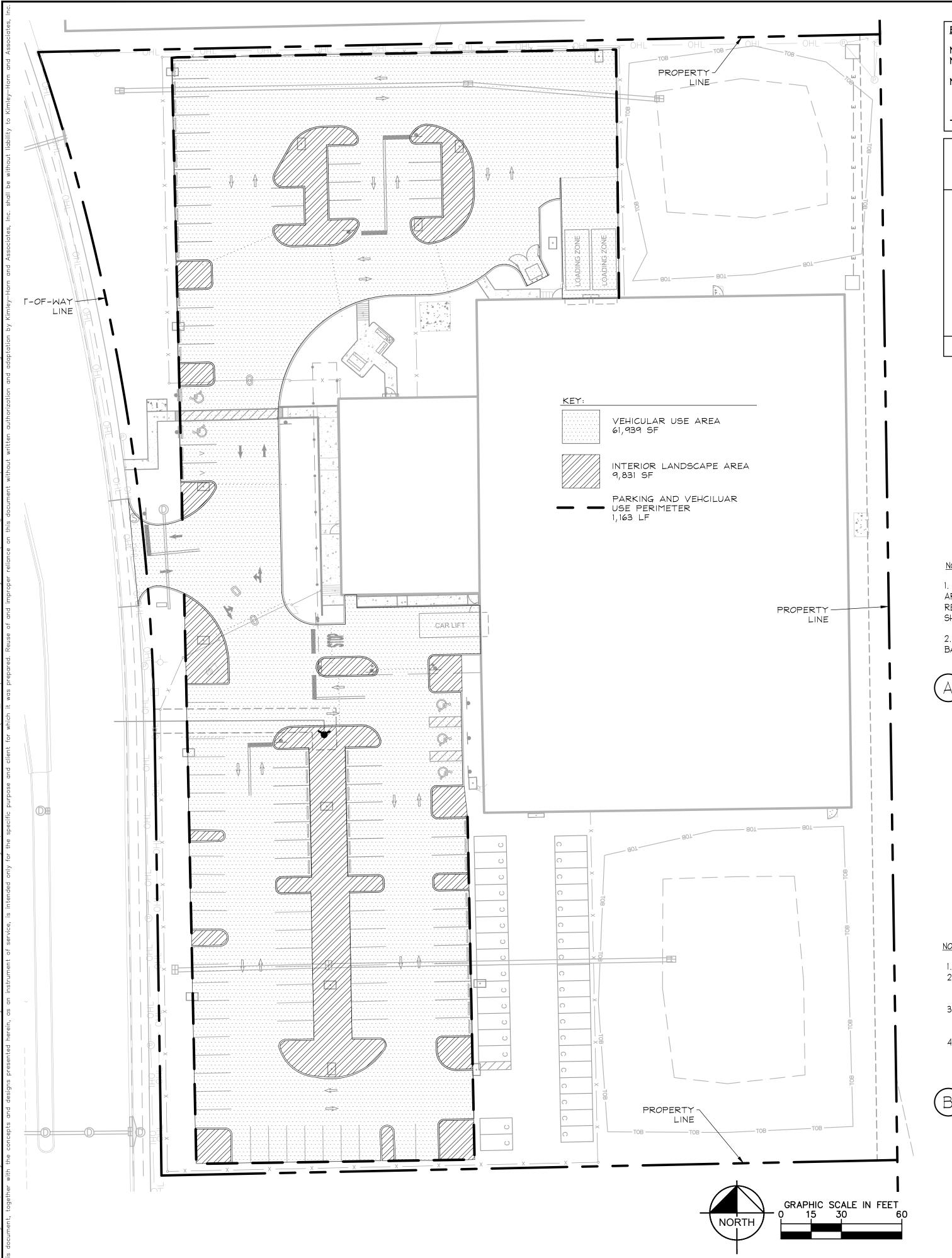
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EXISTING TREE CALCULATION:

NUMBER OF TREES TO BE PRESERVED: 35 TREES NUMBER OF PALMS TO BE PRESERVED: 6 SABAL PALMS @ 3:1 = 2 TREES 2 TREES NUMBER OF PALMS TO BE RELOCATED: 8 TREES 12 SABAL PALMS @ 3:1 = 4 TREES

45 TREES TOTAL NUMBER OF EXISTING TREES:

4 ROYAL PALMS @ 1:1 = 4 TREES

PROPOSED TREE CALCULATION:

45 TREES TOTAL NUMBER OF EXISTING TREES (SEE EXISTING TREE CALCULATIONS) TOTAL NUMBER OF PROPOSED TREES 50 TREES 23 GUMBO LIMBOS 9 LIGUSTRUMS 6 CRAPE MYRTLES 12 LIVE OAKS TOTAL NUMBER OF PROPOSED PALMS 20 TREES

18 CHRISTMAS PALMS @ 3:1 = 6 TREES 2 ROYAL PALMS @ 1:1 = 2 TREES 20 SABAL PALMS @ 3:1 = 6 TREES 8 MONTGOMERY PALMS @ 3:1 = 2 TREES 12 FOXTAIL PALMS @ 3:1 = 4 TREES

70 TREES TOTAL NUMBER OF PROPOSED TREES TOTAL TREES ON SITE

BACK OF CURB (TYP)

NATIVE TREE CALCULATION: 32 TREES NUMBER OF EXISTING NATIVE TREES TO BE PRESERVED: NUMBER OF EXISTING NATIVE PALMS TO BE PRESERVED: 2 TREES 6 SABAL PALMS @ 3:1 = 2 TREES NUMBER OF EXISTING NATIVE PALMS TO BE RELOCATED: 8 TREES 12 SABAL PALMS @ 3:1 = 4 TREES 4 ROYAL PALMS @ 1:1 = 4 TREES 42 TREES TOTAL NUMBER OF EXISTING NATIVE TREES NUMBER OF PROPOSED NATIVE TREES 35 TREES 23 GUMBO LIMBO = 20 TREES 12 LIVE OAKS = 12 TREES NUMBER OF PROPOSED NATIVE PALMS 8 TREES 2 ROYAL PALMS @ 1:1 = 2 TREES 20 CABBAGE PALMS @ 3:1 = 6 TREES 43 TREES TOTAL NUMBER OF PROPOSED NATIVE TREES TOTAL NUMBER OF NATIVE TREES ON SITE 85 TREES

115 TREES EXCAVATION AREA (30" DEPTH) / COMPACTED SOIL (12" WIDE)

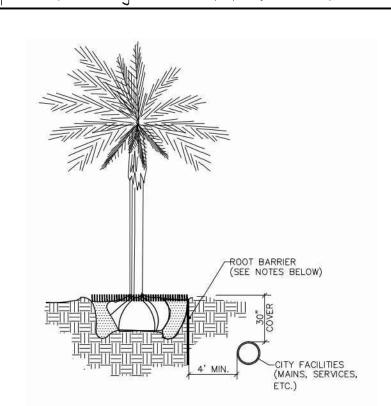


1. ALL EXISTING SOIL WITHIN LANDSCAPE AREAS ADJACENT TO VEHICULAR USE AREAS IS REQUIRED TO BE REMOVED (TO 30" BELOW GRADE), INSPECTED AND THEN REPLACED WITH A TOPSOIL MIX AS NEEDED IN SPECIFICATION E/LI.II. TOPSOIL MIX SHALL BE SCREENED OF ROCK.

2. ALL PROPERTIES ARE REQUIRED TO HAVE AN OPEN BED INSPECTION PRIOR TO BACKFILLING TO INSURE THE THIRTY (30) INCH DEPTH HAS BEEN MET.

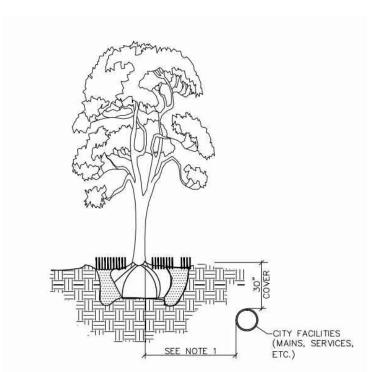
# Typical Parking Island Excavation Detail

10"---



- ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
- 3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
- 4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTION.

(B) Typical Tree with Root Barrier



NOTES:

1. THIS DISTANCE SHALL BE 10' MINIMUM FROM ALL CITY FACILITIES IF NO ROOT BARRIER IS USED.

Typical Tree without Root Barrier

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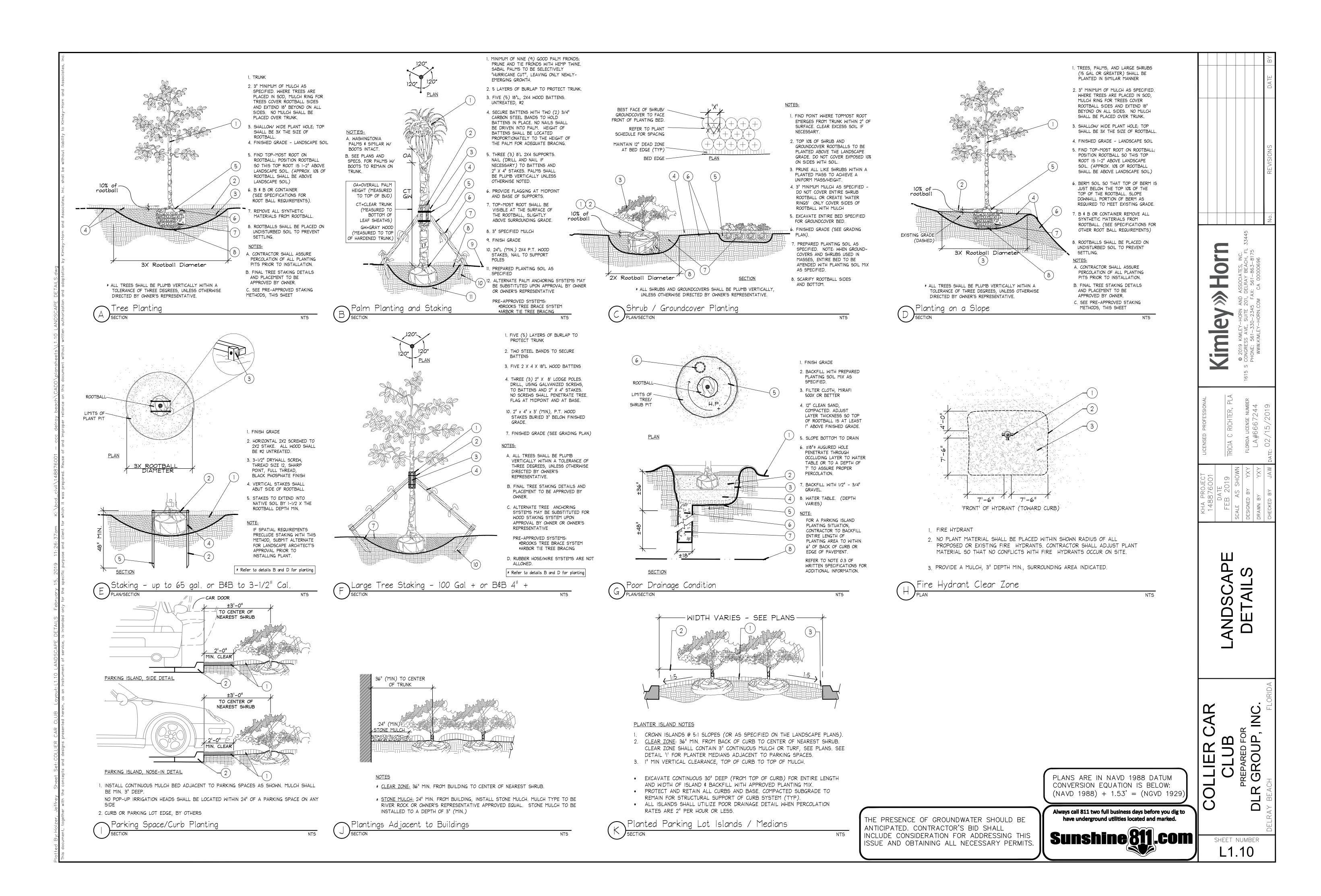
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GROUP,

**ANDS** 

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

(NAVD 1988) + 1.53' = (NGVD 1929)



## GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

### A. SCOPE OF WORK

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

### B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, 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

### 1. GENERAL

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

AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS TOPSOIL MIX

PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY) PLANTS

> CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS. INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.

FERTILIZER PRODUCT DATA PRODUCT DATA INNOCULANT

HERBICIDE PRODUCT DATA

STAKING/GUYING FOR ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

### 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 20% CLEAN FLORIDA MUCK AND 80% PARTS CLEAN SAND. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
- 2. MUCK (OR MUCKY PEAT) FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, AND OF A VERY HIGH ORGANIC CONTENT DERIVED FROM FLORIDA SOURCES; 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.
- 3. SAND FOR USE IN PREPARING SOIL MIXTURE SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
- 4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
- 5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

AUTHORITY.

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

### 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.

### H. MULCH

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

### 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 TRANSPORTATION AND PRIOR TO
- 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
- 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.

## L. NATIVE STOCK

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.
- . 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 PLANTS.
- 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 Q. CLEANUP 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 UNDERNEATH.
- 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 OWNER.
- 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.

- 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.

ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

THE PRESENCE OF GROUNDWATER SHOULD BE

C. 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

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.

BY PROPERTY'S JURISDICTIONAL AUTHORITY.

### 6. LAWN MAINTENANCE:

- A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TH 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.

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

## 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

## U. WARRANTY

- 1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER 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. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) 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.
- 3. 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.
- 4. 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.

PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.53' = (NGVD 1929)

Always call 811 two full business days before you dig to have underground utilities located and marked.



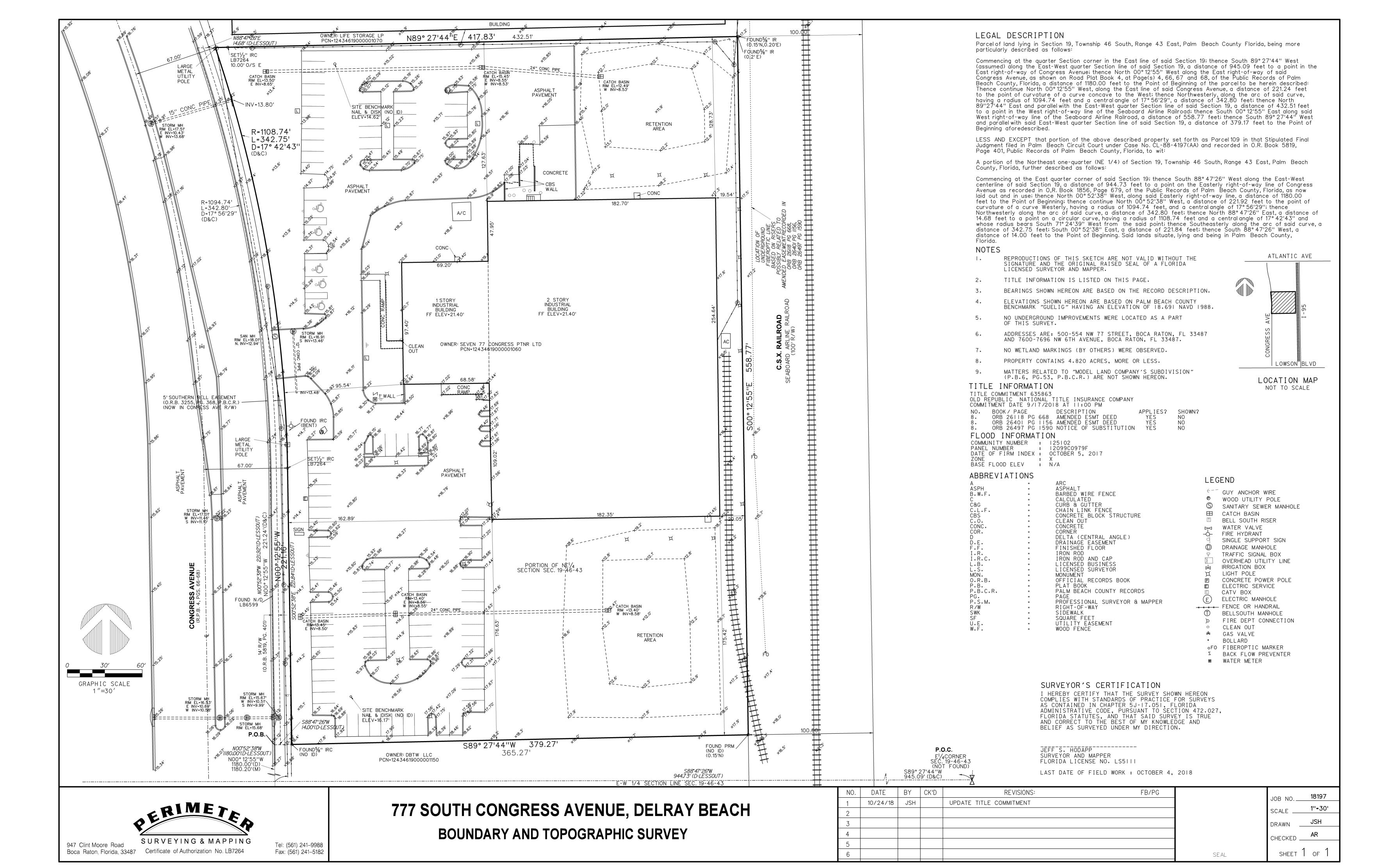
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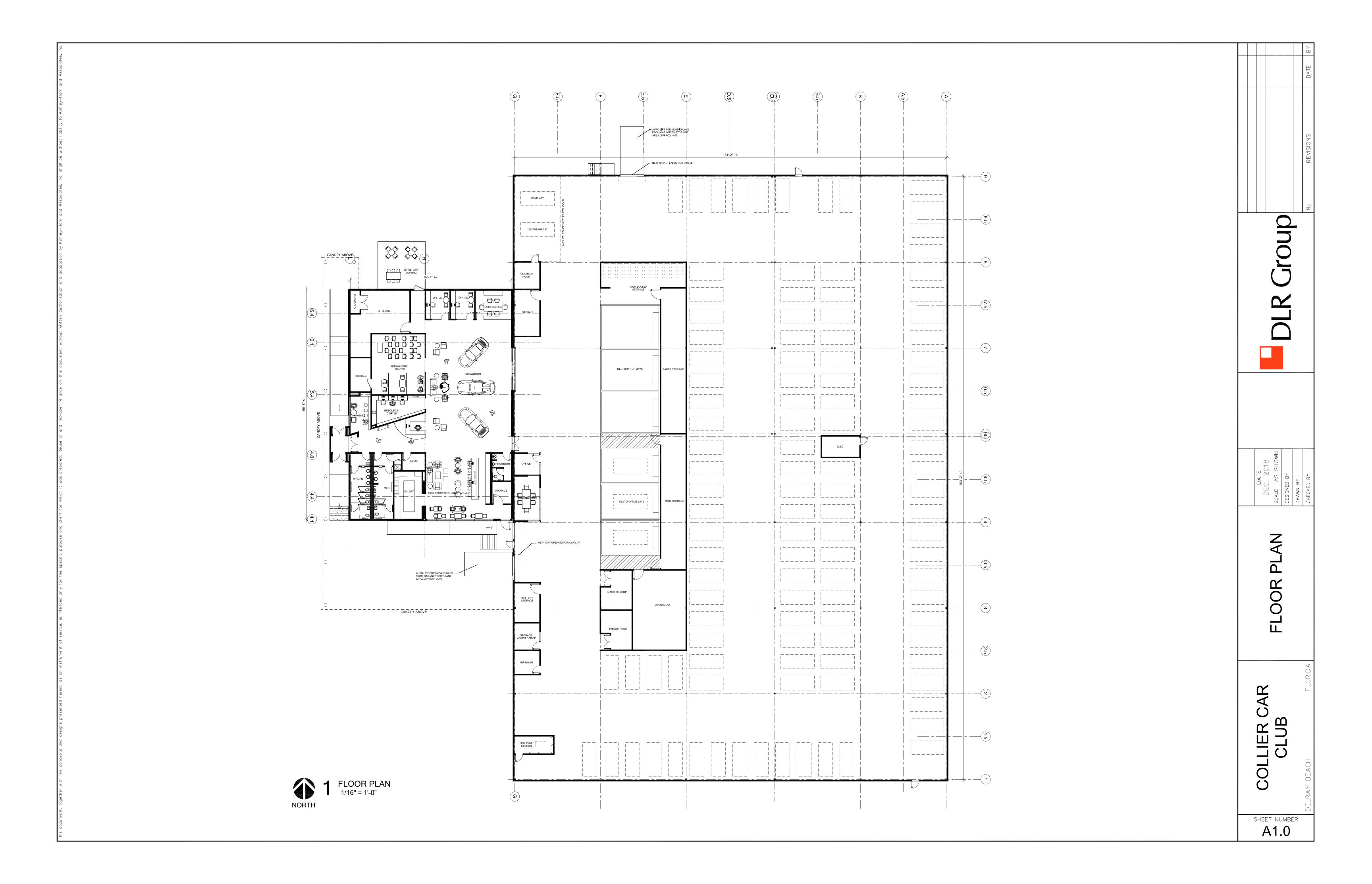
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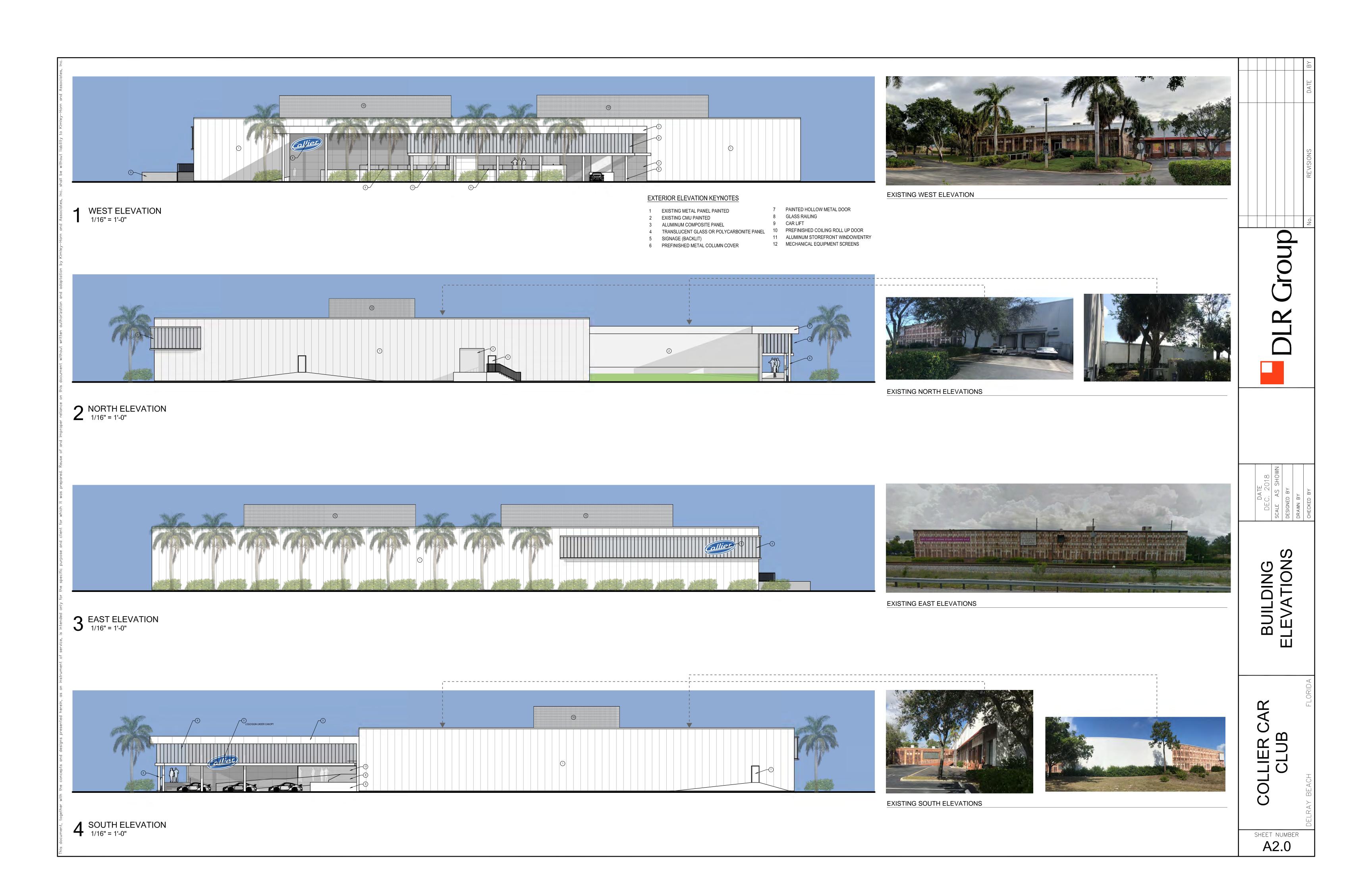
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SHEET NUMBER

L1.11









CONGRESS STREET RENDERING - DAY



2 CONGRESS STREET RENDERING - NIGHT

ISE NUMBER GTO

DATE
DEC. 2018
SCALE AS SHOWN

CONGRESS STREET RENDERINGS

OLLIER CAR CLUB

SHEET NUMBER

A3.0



I-95 RENDERING - DAY



2 I-95 - NIGHT

I-95 RENDERINGS

COLLIER CAR CLUB

SHEET NUMBER

A3.1

Calculation Summary						
Calculation Grid Location	Units	Avg	Max	Min	Avg/Min	Max/Min
HORIZONTAL PROPERTY LINE - 6FT	Fc	0.1	0.2	0.0	N.A.	N.A.
VERTICAL PROPERTY LINE - 6FT	Fc	0.1	0.2	0.0	N.A.	N.A.
CANOPY - DRIVE THRU - OVERHANG	Fc	12.8	14.6	10.3	1.2	1.4
PARKING LOT	Fc	3.0	7.6	1.0	3.0	7.6

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**EXISTING BUILDING** 

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- . DESIGN FOLLOWS THE ASHRAE/IESNA EXTERIOR LIGHTING STANDARD AND IS IN COMPLIANCE WITH CITY
- OF DELRAY LIGHTING ORDINANCES.
- ALL LIGHT FIXTURES ARE FULL CUT-OFF TYPE; NO UPLIGHT MAXIMUM MOUNTING HEIGHT IS 25' ABOVE GRADE.
- DESIGN MEETS THE MAX, MIN, MAX/MIN, AVERAGE/MIN RATIOS AS DEFINED IN THE LOCAL LIGHTING
- LIGHT SPILLAGE TO ADJOINING PROPERTIES. DESIGN COMPLIES WITH THE REQUIREMENT FOR 0.25

HORIZONTAL AND VERTICAL FOOT-CANDLES MEASURED AT SIX FEET ABOVE GRADE LEVEL ALONG THE

Luminaire Schedule Symbol Type

SB2

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PHOTOMETRIC PLAN

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NOT FOR

02-14-2019

39-18810-00 **PHOTOMETRIC** PLAN

CONSTRUCTION

E-1

PHOTOMETRIC RENDERING

E-2

DLR Group STAFFELBACH