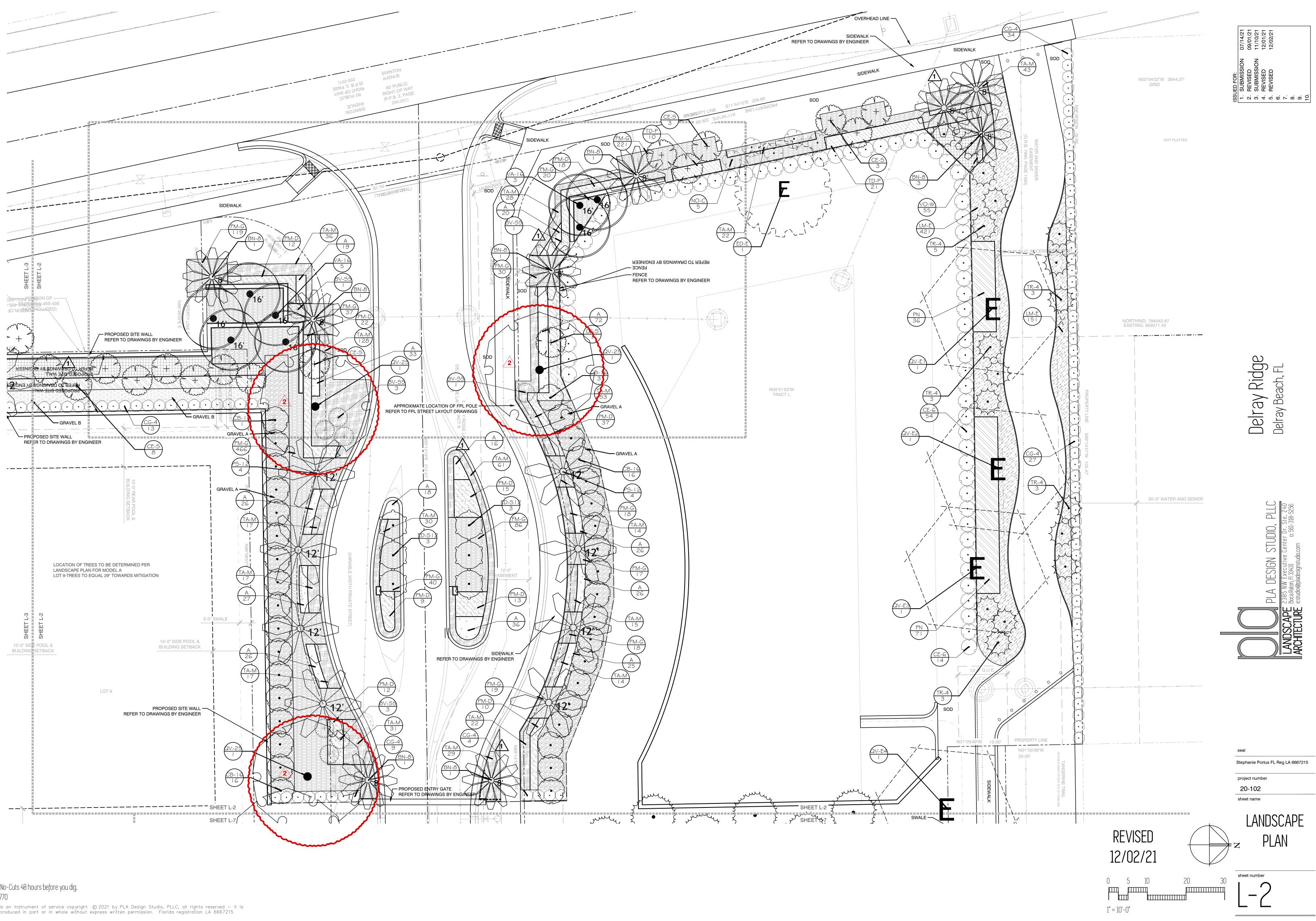
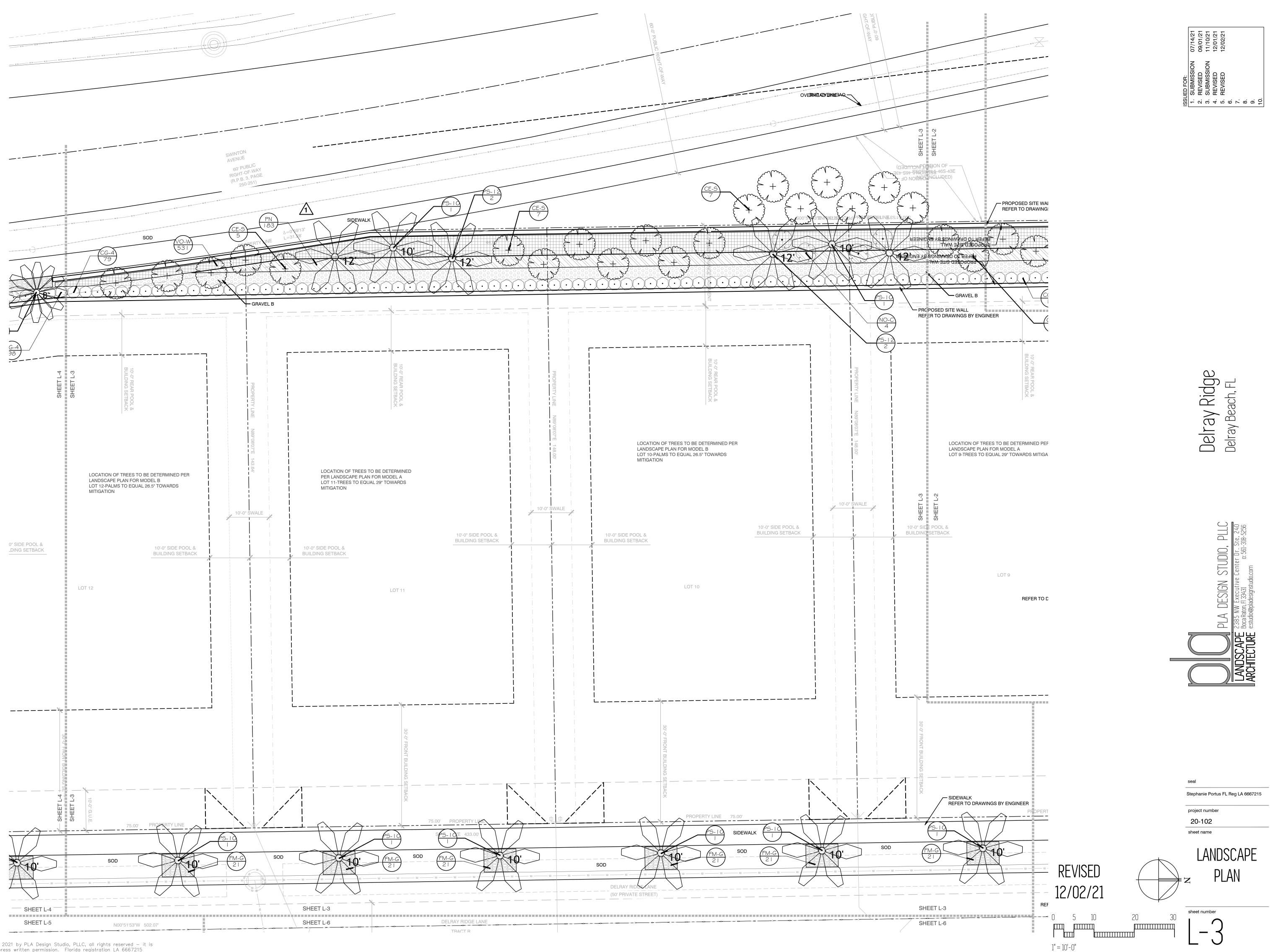


 T. SUBMISSION 2. REVISED 3. SUBMISSION 4. REVISED 5. REVISED 6. 8. 9. 10.

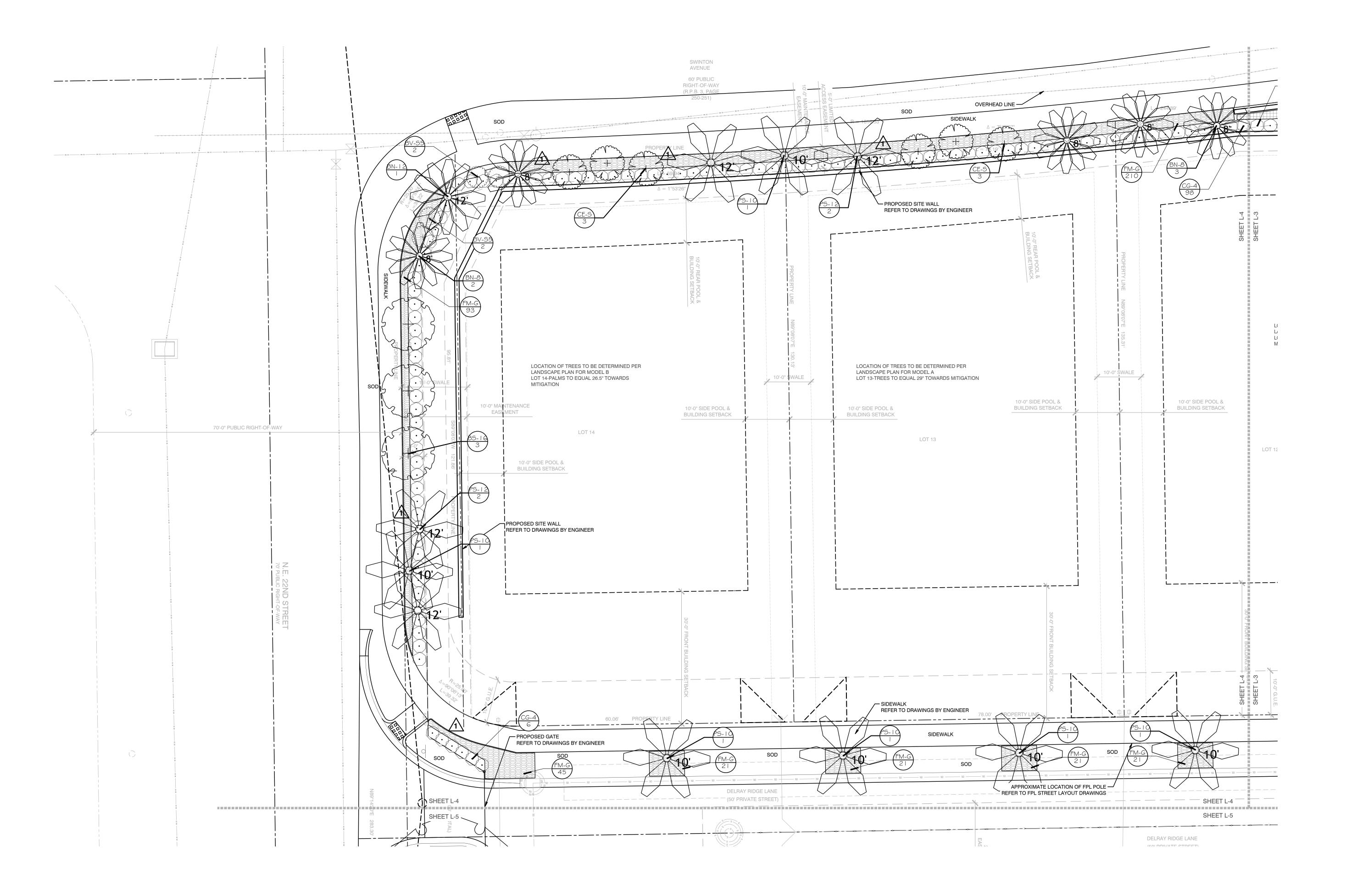


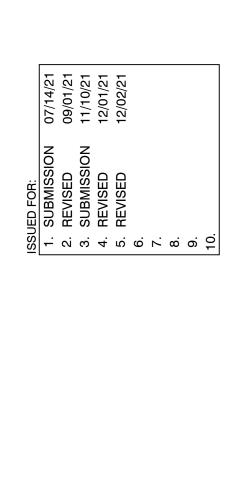
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Delray Ridge Delray Beach, FL

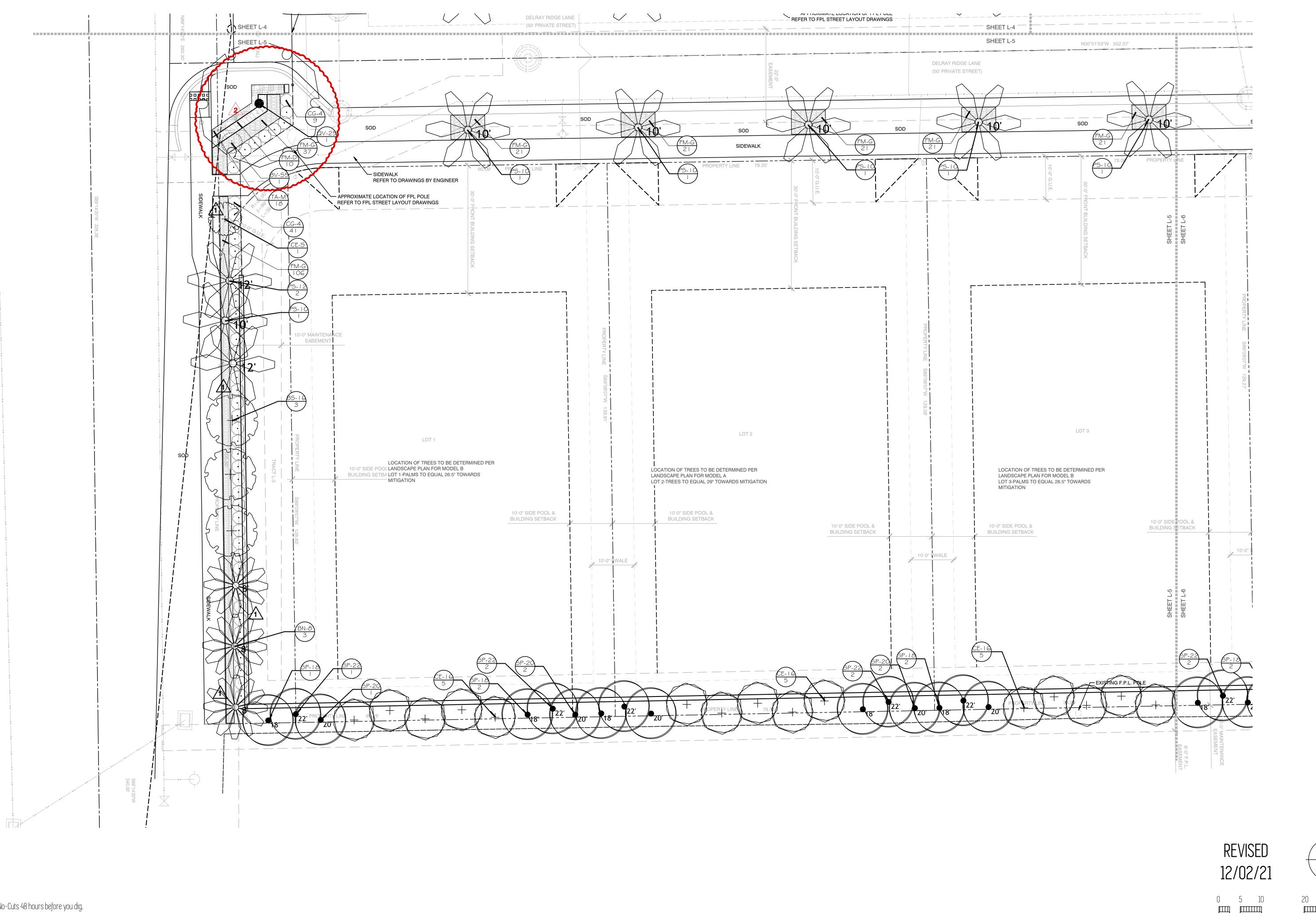


seal Stephanie Portus FL Reg LA 6667215 project number 20-102 sheet name LANDSCAPE PLAN

sheet number



0 5 10 20 1" = 10'-0"



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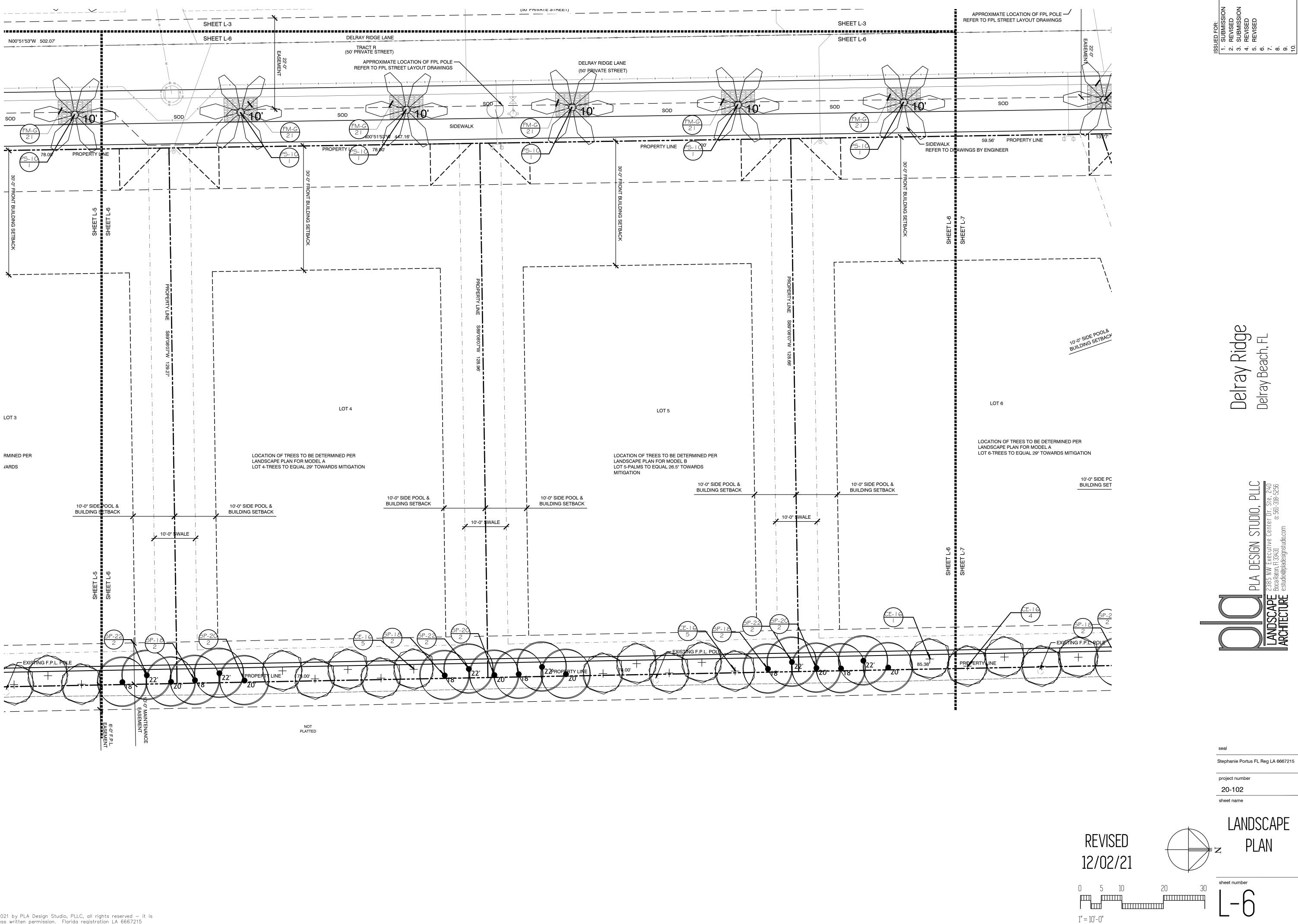
Delray Ridge Delray Beach, FL

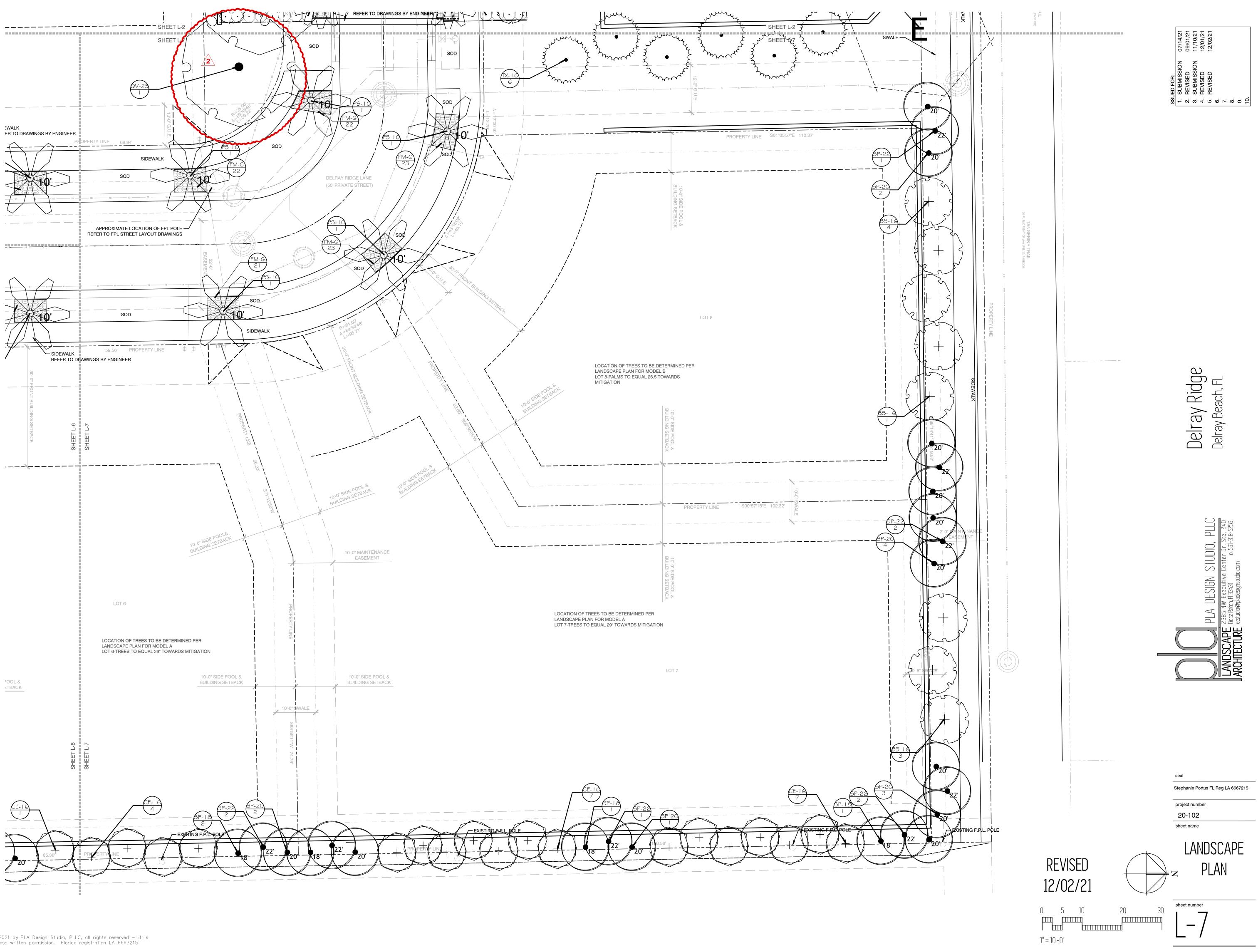


seal Stephanie Portus FL Reg LA 6667215 project number 20-102 sheet name LANDSCAPE PLAN

 $\Box \Box \Box$

1" = 10'-0"





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TREES	BOTANICAL / COMMON NAME		CAL 4" CAL	<u>HT</u> 16` HT	<u>SPD</u> 7`SPD		<u>QTY</u> 14	REMARKS
S-16	Bursera simaruba / Gumbo Limbo	100G	4" CAL	16 [°] HT	7 SPD	NATIVE	14	FULL, DENSE, SYMMETRICAL CANOPY WITH CHARACTER. SUBMIT PHOTO TO LA FOR APPROVAL
B-16	Calophyllum brasiliense / Brazilian Beautyleaf	B&B	3" CAL	16` HT	7`-8` SPD	NON-NATIVE	36	FLORIDA FANCY, SINGLE LEADER, FULL DENSE, SYMMETRICAL CANOPY.8` CT. MATCHING-SUBMIT PHOTO TO LA FOR APPROVAL
E-16	Conocarpus erectus / Green Buttonwood	100G	3" CAL	16` HT	7` SPD	NATIVE	44	Grade #1, SINGLE LEADER, FULL DENSE CANOPY, NO VOIDS. STRAIGHT, UNSCARRED TRUNK. 8` CT-MATCHING.
CE-S ED-S12	Conocarpus erectus `Sericeus` / Silver Buttonwood Elaeocarpus decipiens / Japanese Blueberry Tree	45G/28" 65G	3" CAL 2.5" CAL	16` HT 12` HT	7`-8` SPD 6` SPD	NATIVE NON-NATIVE	42 6	MULTI TURNK, DENSE, SYMMETRICAL CANOPY STANDARD/TREE FORM, DENSE, SYMMETRICAL CROWN,
ED-E	Eucalyptus deglupta / Eucalyptus Tree	N/A	22" CAL	40` HT		NON-NATIVE	1	STRAIGHT TRUNK, 6`CT, MATCHING-SUBMIT PHOTO EXISTING
2V-25	Quercus virginiana / Southern Live Oak	FIELD GROWN	16" CAL	25` HT	20`-25` SPD	NATIVE	5	25' OA, SINGLE, RANCH, 10' C.T.
QV-E4	Quercus virginiana / Southern Live Oak	N/A	15.25" CAL	35` HT		NATIVE	1	EXISTING
QV-E2	Quercus virginiana / Southern Live Oak	N/A	16.5" CAL	35` HT		NATIVE	1	EXISTING
QV-E3	Quercus virginiana / Southern Live Oak	N/A	23" CAL	35` HT		NATIVE	1	EXISTING
QV-E1	Quercus virginiana / Southern Live Oak	N/A	23" CAL	35` HT		NATIVE	1	EXISTING
X-16	Taxodium distichum / Bald Cypress	FIELD GROWN	4" CAL	16` HT	7` SPD	NATIVE	6	STANDARD-DENSE, SYMMETRICAL, DEEP GREEN FOLIAGE, NO VOIDS, STRAIGHT TRUNK, 8` CT, MATCHING
PALM TREES 3N-8	BOTANICAL / COMMON NAME Bismarckia nobilis `Silver` / Silver Bismarck Palm	<u>CONT</u> FIELD GROWN	CAL	<u>HT</u> 16` HT	<u>SPD</u> 12`SPD	<u>NATIVE</u> NON-NATIVE	<u>QTY</u> 17	<u>REMARKS</u> FLORIDA FANCY, HEAVY, INTACT FRONDS, 8' C.T., MATCHING-SUBMIT PHOTO
3N-12	Bismarckia nobilis `Silver` / Silver Bismarck Palm	FIELD GROWN		20` HT	16` SPD	NON-NATIVE	1	FLORIDA FANCY, HEAVY, INTACT FRONDS, 12' C.T., MATCHING-SUBMIT PHOTO
PS-10	Phoenix sylvestris / Wild Date Palm	B&B		20` HT	16` SPD	NON-NATIVE	30	FULL HEAD, HEAVY CALIPER, STRAIGHT TRUNK, MATCHING, 10' C.T.
°S-12	Phoenix sylvestris / Wild Date Palm	B&B		22` HT	16` SPD	NON-NATIVE	18	FULL HEAD, HEAVY CALIPER, STRAIGHT TRUNK, MATCHING, 12' C.T.
SP-18	Sabal palmetto / Cabbage Palmetto	FIELD GROWN		24` HT		NATIVE	15	FLORIDA FANCY, SLICK-MATCHING. SUBMIT PHOTO TO LA FOR APPROVAL, 18' C.T.
SP-20	Sabal palmetto / Cabbage Palmetto	FIELD GROWN		26` HT		NATIVE	23	FLORIDA FANCY, SLICK-MATCHING. SUBMIT PHOTO TO LA FOR APPROVAL, 20' C.T.
SP-22	Sabal palmetto / Cabbage Palmetto	FIELD GROWN		28` HT		NATIVE	19	FLORIDA FANCY, SLICK-MATCHING. SUBMIT PHOTO TO LA FOR APPROVAL, 22' C.T.
ΓR-4 √A-16	Thrinax radiata / Florida Thatch Palm Veitchia arecina / Montgomery Palm	25G B&B		4` HT 16` HT	3`-4` SPD 16` SPD	NATIVE NON-NATIVE	17 8	SINGLE, FULL, INTACT FRONDS, GOOD COLOR SINGLE, FULL HEAD, STRAIGHT UNSCARRED TRUNK, 8` CT MIN.
SHRUBS	BOTANICAL / COMMON NAME	CONT	нт	W	NATIVE		QTY	
3V-S5 CG-4	Bougainvillea x `Barbara Karst` / Barbara Karst Bougainvillea Clusia guttifera / Small-Leaf Clusia	25G/21" 7G/14"	<u>HT</u> 5` HT 4` HT	₩ 4`-5` W 30" W	NON-NATIVE NON-NATIVE		<u>QTY</u> 14 320	STANDARD, FULL, DENSE, SYMMETRICAL HEAD. MATCHING FULL TO BASE, LOW BRANCHING, DENSE INTACT FOLIAGE, NO
CE-6	Conocarpus erectus / Green Buttonwood	15G/17"	6` HT	36" W	NATIVE		68	VOIDS FULL TO BASE, LOW BRANCHING, DENSE INTACT FOLIAGE, NO
NO-C	Nerium oleander `Calypso` / Calypso Oleander	30G	6`-8` HT	36" W	NON-NATIVE		9	VOIDS FULL TO BASE, PINK, FULL, DENSE FOLIAGE TO BASE.
HRUB AREAS	BOTANICAL / COMMON NAME	<u>CONT</u> 4" POT	<u>HT</u> 10"	W	NATIVE		<u>QTY</u> 370	
4	Annuals / Annuals TBS							FULL POTS, BLOOMING. TO BE SELECTED BY OWNER AT TIME OF INSTALL
M-G	Ficus microcarpa `Green Island` / Green Island Ficus	3G/10"	16"	14"	NON-NATIVE		2,113	FULL, DENSE FOLIAGE, GOOD COLOR
M-E	Liriope muscari `Emerald Goddess` / Liriope	1G/6" 2G/10"	12" 16"	10" 14"	NON-NATIVE		572	FULL, DENSE POTS. GOOD COLOR
PM-D PN	Podocarpus macrophyllus `Dwarf Pringles` / Dwarf Podocarpus Psychotria nervosa / Wild Coffee	3G/10" 3G/10"	16" 24"	14" 24"	NON-NATIVE NATIVE		158 290	FULL, DENSE, FOLIAGE TO BASE FULL, DENSE FOLIAGE TO BASE
D-P	Tabernaemontana divaricata `Pinwheel Jasmine` / Pinwheel Jasmine	3G/10" 3G/10"	24" 18"	24" 18"	NON-NATIVE		290 31	FULL, DENSE FOLIAGE TO BASE FULL, DENSE FOLIAGE, FULL TO BASE, GOOD COLOR
ГД-Р ГА-М	Trachelospermum asiaticum `Minima` / Minima Jasmine	1G/6"	10 14"	10 14"	NON-NATIVE		595	FULL POT, DENSE FOLIAGE
/O-W	Viburnum obovatum / Walter`s Viburnum	3G/10"	18"	14 18"	NATIVE		586	DENSE, SYMMETRICAL FOLIAGE. NO VOIDS
AISC	BOTANICAL NAME / COMMON NAME QTY		REMARKS	;				
310		y LF in field	PROVIDE	- BIO BARRIE	R ROOT CONTRO	LAT ROOTBALLS	AS REQUIRE	ED
	Selected by client							UMINUM EDGING ALONG
BRAVEL A	Selected by client Verit	iy quantity in field				LINE' OR EQUAL	L DLAUN AL	
GRAVEL B	Selected by client Verit	y quantity in field	PROVIDE	MIN. 2" THIC	K APPI ICATION F	PROVIDE OPTIONA	BLACK AL	UMINUM EDGING ALONG

GRAVEL A	Selected by client	Verify quantity in field	LANDSCAPE BEDS-P
GRAVEL B	Selected by client	Verify quantity in field	PROVIDE MIN. 2" THI LANDSCAPE BEDS-P
MULCH	Grade B+ Cypress Mulch	Verify quantity in field	MINIMUM 3" DEPTH
SOD	'Empire' Zoysia	Verify SF in field	MINIMUM 16"X24" PIE

PLEASE NOTE:

- ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE.
- ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER, AS DESCRIBED IN GRADES AND STANDARDS FOR NURSERY PLANTS, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, TALLAHASSEE FLORIDA, LATEST EDITION.
- SHRUBS AND HEDGES. SHALL BE A MINIMUM OF TWO FEET IN HEIGHT WHEN MEASURED IMMEDIATELY AFTER PLANTING.
- MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS • TREES OR PALMS PLANTED IN SOD SHALL HAVE MULCH RINGS TO PROTECT THEM FROM LAWN MAINTENANCE
- EQUIPMENT AND STRING TRIMMERS.
- THREE (3) PALMS ARE EQUIVALENT TO (1) SHADE TREE. NO MORE THAN 50 PERCENT OF THE REQUIRED TREES SHALL BE PALMS.
- TREES SHALL BE A SPECIES HAVING AN AVERAGE MATURE SPREAD OF CROWN GREATER THAN 20 FEET AND HAVING TRUNKS WHICH CAN BE MAINTAINED IN A CLEAN CONDITION WITH OVER SIX FEET OF CLEAR MATURE WOOD. TREES HAVING AN AVERAGE MATURE SPREAD OF CROWN LESS THAN 20 FEET MAY BE SUBSTITUTED BY GROUPING THE SAME SO AS TO CREATE THE EQUIVALENT OF A 20 FOOT SPREAD OF CROWN. • TREE/PALM SPECIES REQUIRED FOR SINGLE FAMILY HOMES AND DUPLEXES SHALL BE A MINIMUM OF 12 FEET IN
- OVERALL HEIGHT AT THE TIME OF PLANTING, WITH A MINIMUM OF FOUR FEET OF SINGLE STRAIGHT TRUNK WITH SIX FEET OF CLEAR TRUNK, AND A SIX-FOOT SPREAD OF CANOPY.
- ANY TREES PLACED WITHIN THE WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS: LD 1.1 AND LD1.2
- TO PROTECT AGAINST GANODERMA PALM FUNGUS, ALWAYS REMOVE ALL PALM STUMPS FROM PROPERTY. ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED IRRIGATION SYSTEM AND SHALL BE
- EQUIPPED WITH A RAIN SENSING DEVICE. • ALL SYSTEMS SHALL BE DESIGNED TO ALLOW FOR HEAD-TO-HEAD COVERAGE (100 % COVERAGE WITH 100 %
- OVERLAP) OF ALL PLANT MATERIAL. • SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO
- THE PROPERTY LINE. • SPRINKLER HEADS SHALL BE INSTALLED TO MINIMIZE SPRAY UPON ANY PUBLIC ACCESS, SIDEWALK, STREET OR
- OTHER NON-PERVIOUS AREA. • THE USE OF POP-UP SPRINKLER HEADS IS REQUIRED IN SWALE AREAS BETWEEN THE PROPERTY LINE AND THE
- PAVEMENT EDGE OF THE ADJACENT ROW TO MINIMIZE PEDESTRIAN HAZARD.
- ALL IRRIGATION, IRRIGATION EQUIPMENT AND IRRIGATION BOXES TO BE CONCEALED.

PLA DESIGN STUDIO TO APPROVE STAKED LAYOUT OF ALL TREES AND PLANTING LAYOUT PRIOR TO INSTALLATION.

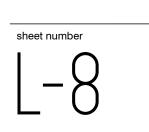
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2

HICK APPLICATION PROVIDE OPTIONAL BLACK ALUMINUM EDGING ALONG -PERMALOC 'CLEAN LINE' OR EQUAL

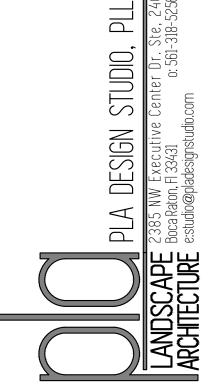
PIECES, GRADED #1 OR BETTER, SEE LANDSCAPE SPECIFICATIONS SHEET



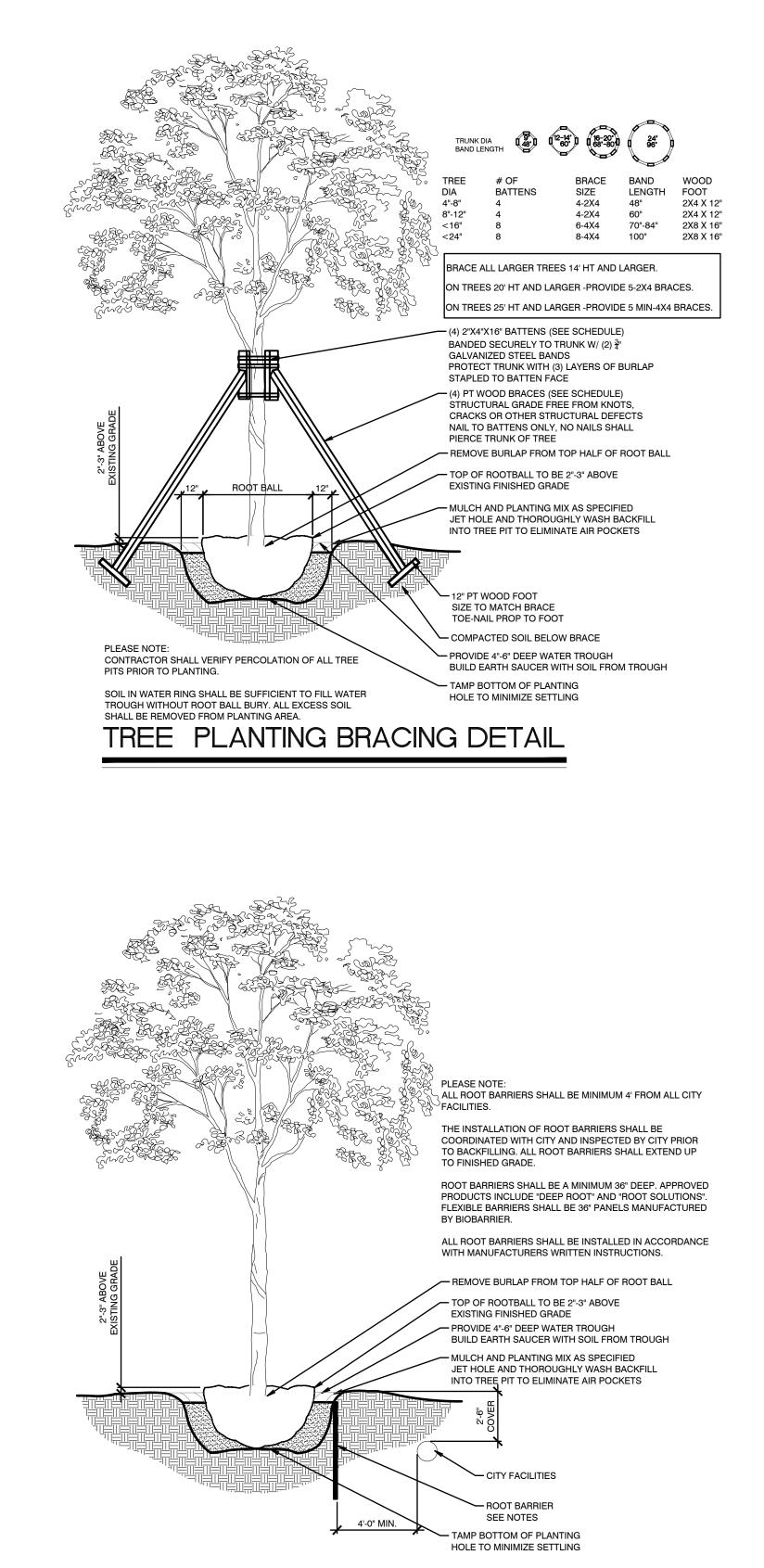
LANDSCAPE SCHEDULE

project number 20-102 sheet name

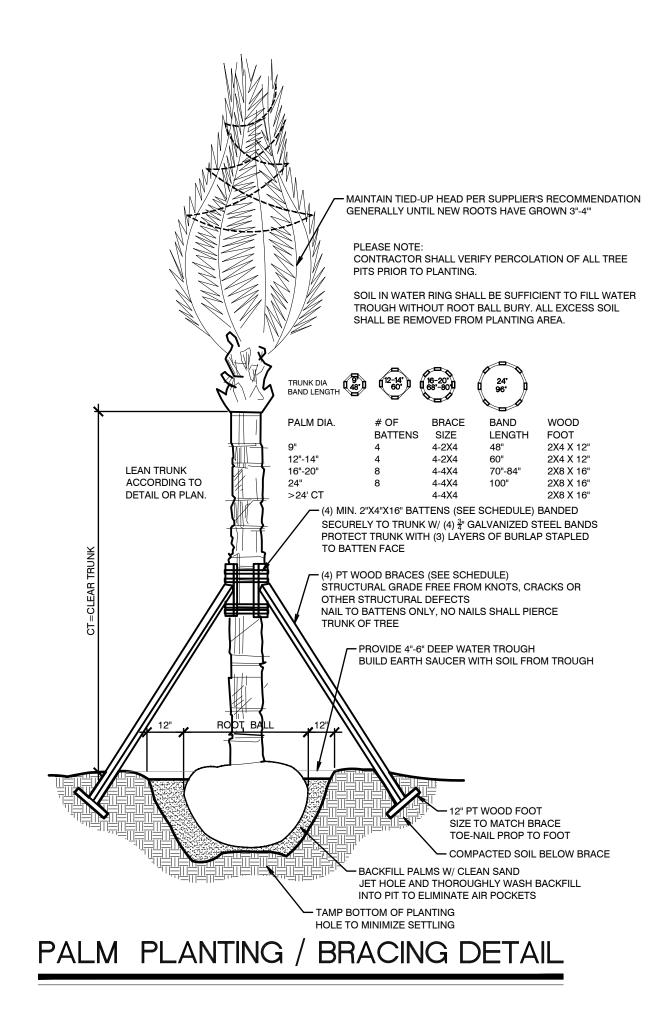
Stephanie Portus FL Reg LA 6667215

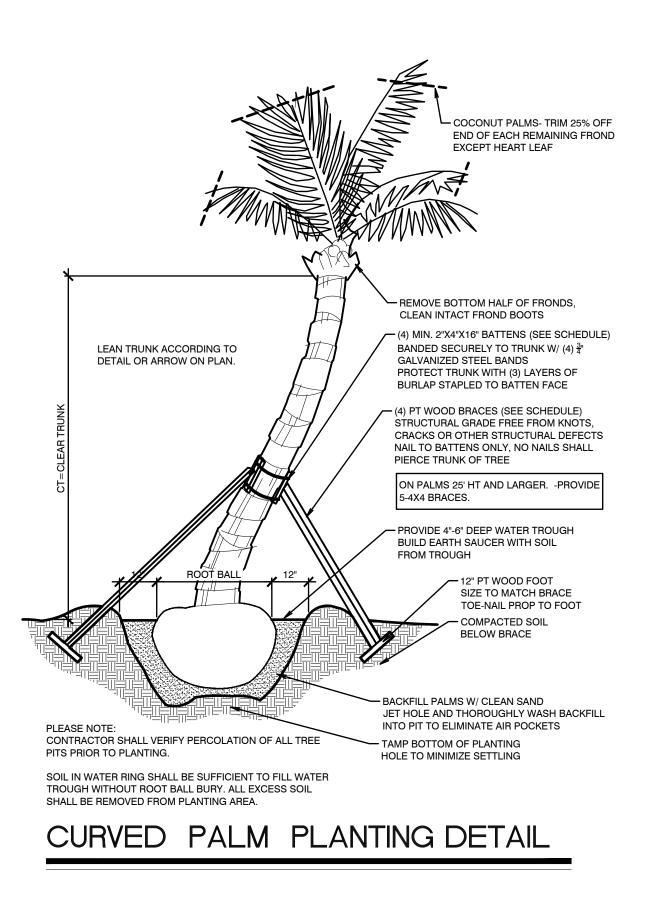


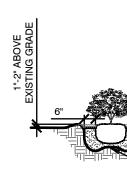
Delray Ridge each, Fl Delray Bea



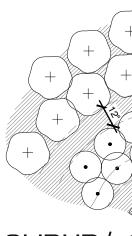
TYPICAL TREE WITH ROOT BARRIER



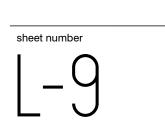








SHRUB/ GROUND COVER LAYOUT



LANDSCAPE DETAILS

project number 20-102 sheet name

Stephanie Portus FL Reg LA 6667215



Delray Ridge ach, Fl \square Delray

SHRUB/ GROUND COVER DETAIL

ESTABLISH CONTINUOUS LINE WITH FRONT ROW OF SHRUBS. INSTALL FRONT ROW OF SHRUBS FIRST. ROTATE SHRUBS AS NEEDED TO ALLOW BEST SIDE OF SHRUB TO FACE FRONT.

- SMOOTH CLEAN SOD EDGE

- MAINTAIN 12" MULCHED CLEAR ZONE AT PLANT

BED EDGES AND ALONG SOD EDGE

- MULCH

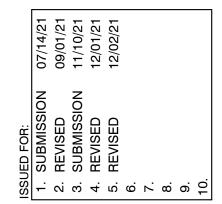
COMPLETELY REMOVE ALL SYNTHETIC MATERIALS

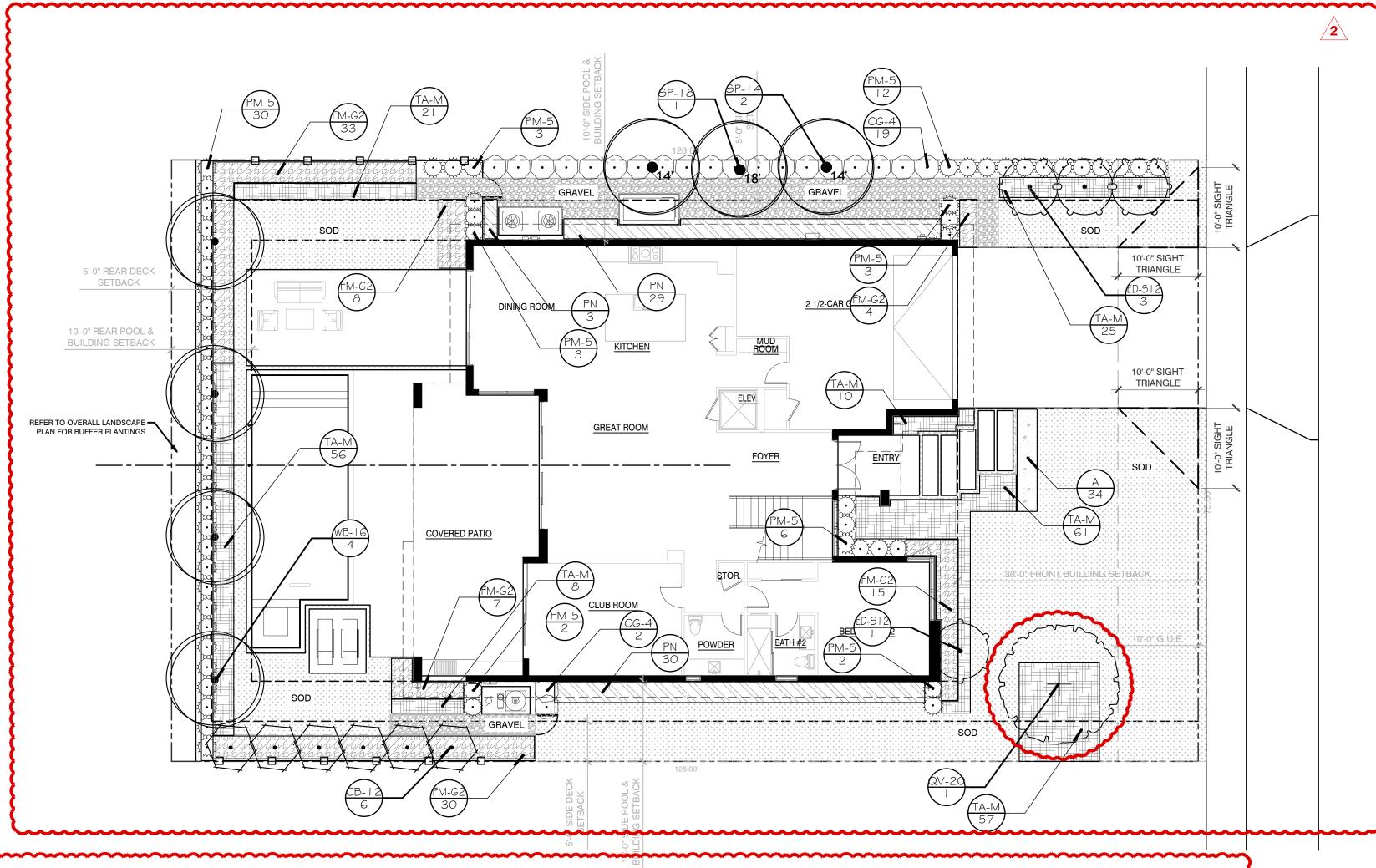
ELEVATION OF EXISTING GRADE PROVIDE 2" EARTH SAUCE

- TAMP BOTTOM OF PLANTING

HOLE TO MINIMIZE SETTLING

- REMOVE BURLAP FROM TOP HALF OF ROOT BALL - MULCH AND PLANTING MIX AS SPECIFIED THOROUGHLY JET AND WASH BACKFILL TO ELIMINATE AIR POCKET - SET ROOT COLLAR 1"-2" ABOVE





TREES CB-12	BOTANICAL / COMMON NAME Calophyllum brasiliense / Brazilian Beautyleaf	CONT B&B	<u>CAL</u> 2.5" CAL	<u>HT</u> 12` HT	<u>SPD</u> 6` SPD	<u>NATIVE</u> NON-NATIVE		<u>QTY</u> 6	<u>REMARKS</u> FLORIDA FANCY, SINGLE LEADER, FULL DENSE, SYMMETRICAL CANOPY. 6` CT. MATCHIN-SUBMIT PHOTO TO LA FOR APPROVAL
ED-S12	Elaeocarpus decipiens / Japanese Blueberry Tree	65G	2.5" CAL	12` HT	6` SPD	NON-NATIVE		4	STANDARD/TREE FORM, DENSE, SYMMETRICAL CROWN, STRAIGHT TRUNK, 6`CT, MATCHING-SUBMIT PHOTO
QV-20	Quercus virginiana / Southern Live Oak	100G	4" CAL	20` HT	10` SPD	NATIVE		1	STANDARD-DENSE, SYMMETRICAL, STRAIGHT TRUNK, 8`CT, MATCHING
ALM TREES P-14	BOTANICAL / COMMON NAME Sabal palmetto / Cabbage Palmetto	<u>CONT</u> FIELD GROWN	CAL	<u>HT</u> 20` HT	<u>SPD</u>	NATIVE NATIVE		QTY 2	<u>REMARKS</u> FLORIDA FANCY, SLICK-MATCHING. SUBMIT PHOTO TO LA FOR APPROVAL, 14' C.T.
P-18	Sabal palmetto / Cabbage Palmetto	FIELD GROWN		24` HT		NATIVE		1	FLORIDA FANCY, SLICK-MATCHING. SUBMIT PHOTO TO LA FOR APPROVAL, 18' C.T.
/B-16	Wodyetia bifurcata / Foxtail Palm	B&B		16` HT	12` SPD	NON-NATIVE		4	SINGLE, FLORIDA FANCY, HEAVY CALIPER. STRAIGHT UNSCARRED TRUNK, GOOD COLOR. MATCHING, 8' C.T.
HRUBS G-4	BOTANICAL / COMMON NAME Clusia guttifera / Small-Leaf Clusia	<u>CONT</u> 7G/14"	HT 4`HT	<u>W</u> 30" W	<u>NATIVE</u> NON-NATIVE			<u>QTY</u> 21	FULL TO BASE, LOW BRANCHING, DENSE INTACT FOLIAGE, NO VOIDS
PM-5	Podocarpus macrophyllus maki / Shrubby Yew	15G/17"	5` HT	24" W	NON-NATIVE			61	FULL, DENSE FOLIAGE TO BASE, SHEAR TO 5` HT
HRUB AREAS	BOTANICAL / COMMON NAME Annuals / Annuals TBS	CONT 4" POT	<u>HT</u> 10"	<u>w</u>	NATIVE		<u>SPACING</u> 12" o.c.	<u>QTY</u> 34	FULL POTS, BLOOMING. TO BE SELECTED BY OWNER AT TIME OF INSTALL
FM-G2	Ficus microcarpa `Green Island` / Green Island Ficus	7G/14"	24"	24"	NON-NATIVE		24" o.c.	97	FULL, DENSE FOLIAGE, GOOD COLOR
PN	Psychotria nervosa / Wild Coffee	3G/10"	24"	24"	NATIVE		24" o.c.	62	FULL, DENSE FOLIAGE TO BASE
TA-M	Trachelospermum asiaticum `Minima` / Minima Jasmine	1G/6"	14"	14"	NON-NATIVE		18" o.c.	238	FULL POT, DENSE FOLIAGE

PLEASE NOTE:

- FLORIDA, LATEST EDITION.
- PLANTING.
- EQUIPMENT AND STRING TRIMMERS.
- SHALL BE PALMS.

- DELRAY BEACH STANDARD DETAILS: LD 1.1 AND LD1.2
- EQUIPPED WITH A RAIN SENSING DEVICE.
- OVERLAP) OF ALL PLANT MATERIAL.
- THE PROPERTY LINE.
- OTHER NON-PERVIOUS AREA.
- ALL IRRIGATION, IRRIGATION EQUIPMENT AND IRRIGATION BOXES TO BE CONCEALED.

PLA DESIGN STUDIO TO APPROVE STAKED LAYOUT OF ALL TREES AND PLANTING LAYOUT PRIOR TO INSTALLATION.

MISC	BOTANICAL NAME / COMMON NAME	<u>QTY</u>
BIO	Bio Barrier-'Typar' or equal	Verify LF in field
GRAVEL	Selected by client	Verify quantity in field
MULCH	Grade B+ Cypress Mulch	Verify quantity in field
SOD	'Empire' Zoysia	Verify SF in field

• ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE. • ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER, AS DESCRIBED IN GRADES AND STANDARDS FOR NURSERY PLANTS, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, TALLAHASSEE

• SHRUBS AND HEDGES. SHALL BE A MINIMUM OF TWO FEET IN HEIGHT WHEN MEASURED IMMEDIATELY AFTER

• MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS • TREES OR PALMS PLANTED IN SOD SHALL HAVE MULCH RINGS TO PROTECT THEM FROM LAWN MAINTENANCE

• THREE (3) PALMS ARE EQUIVALENT TO (1) SHADE TREE. NO MORE THAN 50 PERCENT OF THE REQUIRED TREES

• TREES SHALL BE A SPECIES HAVING AN AVERAGE MATURE SPREAD OF CROWN GREATER THAN 20 FEET AND HAVING TRUNKS WHICH CAN BE MAINTAINED IN A CLEAN CONDITION WITH OVER SIX FEET OF CLEAR MATURE WOOD. TREES HAVING AN AVERAGE MATURE SPREAD OF CROWN LESS THAN 20 FEET MAY BE SUBSTITUTED BY GROUPING THE SAME SO AS TO CREATE THE EQUIVALENT OF A 20 FOOT SPREAD OF CROWN. • TREE/PALM SPECIES REQUIRED FOR SINGLE FAMILY HOMES AND DUPLEXES SHALL BE A MINIMUM OF 12 FEET IN

OVERALL HEIGHT AT THE TIME OF PLANTING, WITH A MINIMUM OF FOUR FEET OF SINGLE STRAIGHT TRUNK WITH SIX FEET OF CLEAR TRUNK, AND A SIX-FOOT SPREAD OF CANOPY.

• ANY TREES PLACED WITHIN THE WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF

• TO PROTECT AGAINST GANODERMA PALM FUNGUS, ALWAYS REMOVE ALL PALM STUMPS FROM PROPERTY. • ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED IRRIGATION SYSTEM AND SHALL BE

• ALL SYSTEMS SHALL BE DESIGNED TO ALLOW FOR HEAD-TO-HEAD COVERAGE (100 % COVERAGE WITH 100 %

• SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO

• SPRINKLER HEADS SHALL BE INSTALLED TO MINIMIZE SPRAY UPON ANY PUBLIC ACCESS, SIDEWALK, STREET OR

• THE USE OF POP-UP SPRINKLER HEADS IS REQUIRED IN SWALE AREAS BETWEEN THE PROPERTY LINE AND THE PAVEMENT EDGE OF THE ADJACENT ROW TO MINIMIZE PEDESTRIAN HAZARD.

S H S H S H H

> Sonoma Model Delray Ridge Delray Beach, F

REMARKS

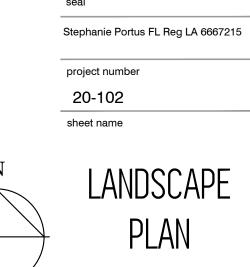
PROVIDE BIO BARRIER ROOT CONTROL AT ROOTBALLS AS REQUIRED BY UTILITIES

PROVIDE MIN. 2" THICK APPLICATION PROVIDE OPTIONAL BLACK ALUMINUM EDGING ALONG LANDSCAPE BEDS-PERMALOC 'CLEAN LINE' OR EQUAL

MINIMUM 3" DEPTH

MINIMUM 16"X24" PIECES, GRADED #1 OR BETTER, SEE LANDSCAPE SPECIFICATIONS SHEET

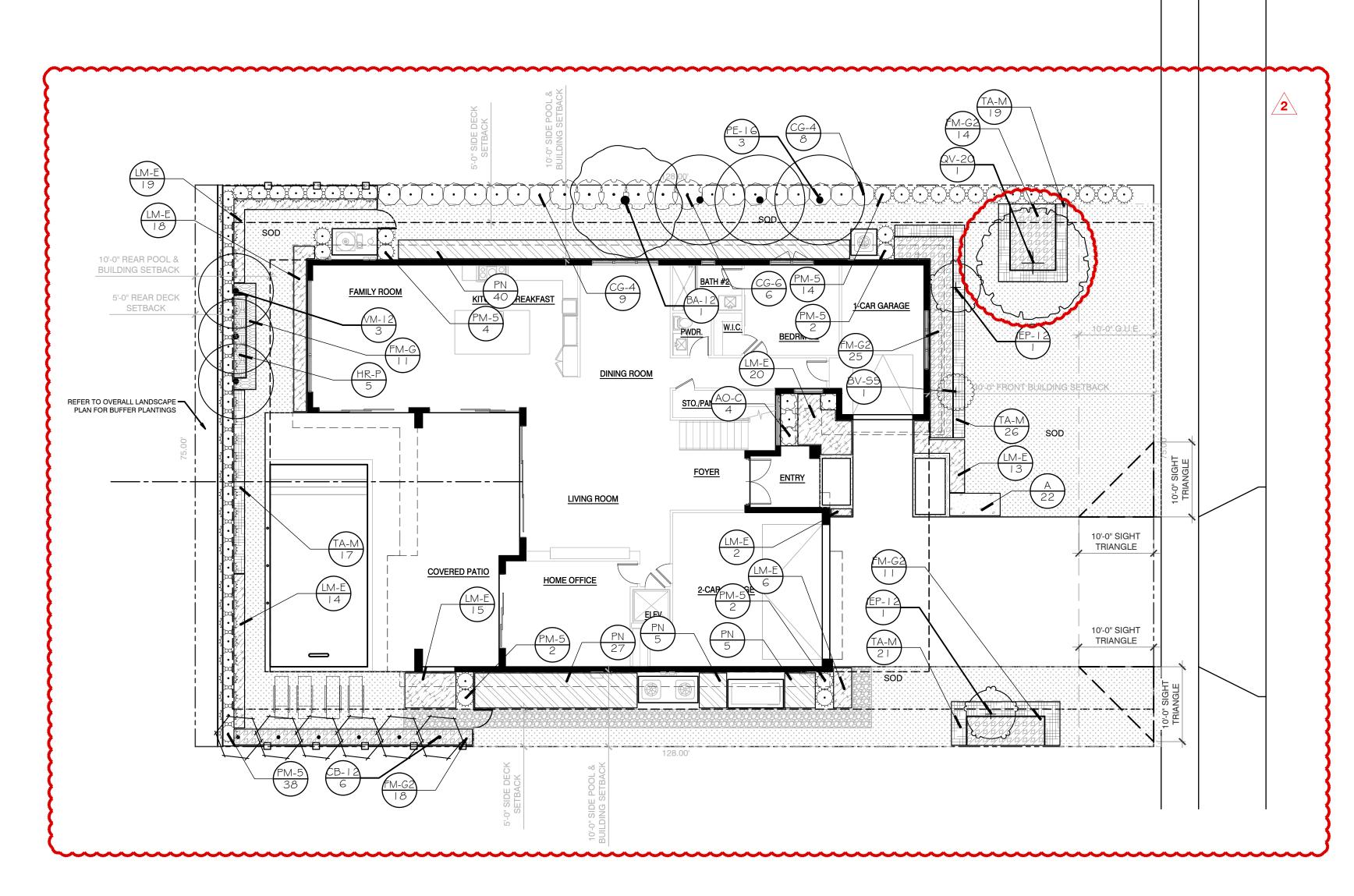




sheet number



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TREES BA-12	<u>BOTANICAL / COMMON NAME</u> Bulnesia arborea / Verawood	<u>CONT</u> 45G	<u>CAL</u> 2.5" CAL	<u>HT</u> 12` HT	<u>SPD</u> 3`-4` SPD	<u>NATIVE</u> NON-NATIVE		<u>QTY</u> 1	<u>REMARKS</u> GRADE #1, STRAIGHT TRUNK,SYMMETRICAL HEAD
CB-12	Calophyllum brasiliense / Brazilian Beautyleaf	B&B	2.5" CAL	12` HT	6` SPD	NON-NATIVE		6	FLORIDA FANCY, SINGLE LEADER, FULL DENSE, SYMMETRICAL CANOPY. 6`CT. MATCHIN-SUBMIT PHOTO TO LA FOR APPROVAL
EP-12	llex x attenuata `East Palatka` / East Palatka Holly	45G	2.5" CAL	12` HT	4` SPD	NATIVE		2	STANDARD-DENSE, SYMMETRICAL, DEEP GREEN FOLIAGE, NO VOIDS, STRAIGHT TRUNK, 3`-4` CT, MATCHING
QV-20	Quercus virginiana / Southern Live Oak	100G	4" CAL	20` HT	10` SPD	NATIVE		1	STANDARD-DENSE, SYMMETRICAL, STRAIGHT TRUNK, 8`CT, MATCHING
PALM TREES PE-16	BOTANICAL / COMMON NAME Ptychosperma elegans / Alexander Palm	CONT B&B	<u>CAL</u>	<u>HT</u> 16` HT	<u>SPD</u> 10` SPD	<u>NATIVE</u> NON-NATIVE		QTY 3	<u>REMARKS</u> SINGLE. FULL HEAD, STRAIGHT, UNSCARRED TRUNK. MATCHING, 10' C.T.
VM-12	Veitchia merrillii / Christmas Palm	FIELD GROWN		12` HT		NON-NATIVE		3	TRIPLE, GRADE #1, HEAVY, GOOD COLOR
<u>SHRUBS</u> AO-C	BOTANICAL / COMMON NAME Alocasia odora `California` / Dwarf Elephant Ear	<u>CONT</u> 3G/10"	<u>HT</u> 18" HT	<u>W</u> 24" W	<u>NATIVE</u> NON-NATIVE			<u>QTY</u> 4	FULL DENSE FOLIAGE, INTACT LEAVES
BV-S5	Bougainvillea x `Barbara Karst` / Barbara Karst Bougainvillea	25G/21"	5` HT	4`-5` W	NON-NATIVE			1	STANDARD, FULL, DENSE, SYMMETRICAL HEAD. MATCHING
CG-6	Clusia guttifera / Small-Leaf Clusia	25G/21"	6` HT	48" W	NON-NATIVE			6	FULL TO BASE, LOW BRANCHING, DENSE INTACT FOLIAGE, NO VOIDS
CG-4	Clusia guttifera / Small-Leaf Clusia	7G/14"	4` HT	30" W	NON-NATIVE			17	FULL TO BASE, LOW BRANCHING, DENSE INTACT FOLIAGE, NO VOIDS
PM-5	Podocarpus macrophyllus maki / Shrubby Yew	15G/17"	5` HT	24" W	NON-NATIVE			62	FULL, DENSE FOLIAGE TO BASE, SHEAR TO 5` HT
SHRUB AREAS A	BOTANICAL / COMMON NAME Annuals / Annuals TBS	CONT 4" POT	<u>HT</u> 10"	<u>w</u>	NATIVE		SPACING 12" o.c.	<u>QTY</u> 22	FULL POTS, BLOOMING. TO BE SELECTED BY OWNER AT TIME OF INSTALL
FM-G	Ficus microcarpa `Green Island` / Green Island Ficus	3G/10"	16"	14"	NON-NATIVE		18" o.c.	11	FULL, DENSE FOLIAGE, GOOD COLOR
FM-G2	Ficus microcarpa `Green Island` / Green Island Ficus	7G/14"	24"	24"	NON-NATIVE		24" o.c.	68	FULL, DENSE FOLIAGE, GOOD COLOR
HR-P	Hibiscus rosa-sinensis `Seminole Pink` / Seminole Pink Hibiscus	3G/10"	16"	14"	NON-NATIVE		24" o.c.	5	BUSH, FULL DENSE FOLIAGE, FULL TO BASE. GOOD COLOR.
LM-E	Liriope muscari `Emerald Goddess` / Liriope	1G/6"	12"	10"	NON-NATIVE		18" o.c.	107	FULL, DENSE POTS. GOOD COLOR
PN	Psychotria nervosa / Wild Coffee	3G/10"	24"	24"	NATIVE		24" o.c.	77	FULL, DENSE FOLIAGE TO BASE
TA-M	Trachelospermum asiaticum `Minima` / Minima Jasmine	1G/6"	14"	14"	NON-NATIVE		18" o.c.	83	FULL POT, DENSE FOLIAGE

PLEASE NOTE:

- FLORIDA, LATEST EDITION.
- PLANTING.
- EQUIPMENT AND STRING TRIMMERS.
- SHALL BE PALMS.
- FEET OF CLEAR TRUNK, AND A SIX-FOOT SPREAD OF CANOPY.
- DELRAY BEACH STANDARD DETAILS: LD 1.1 AND LD1.2
- EQUIPPED WITH A RAIN SENSING DEVICE.
- OVERLAP) OF ALL PLANT MATERIAL.
- THE PROPERTY LINE.
- OTHER NON-PERVIOUS AREA.
- ALL IRRIGATION, IRRIGATION EQUIPMENT AND IRRIGATION BOXES TO BE CONCEALED.

PLA DESIGN STUDIO TO APPROVE STAKED LAYOUT OF ALL TREES AND PLANTING LAYOUT PRIOR TO INSTALLATION.

MISC	BOTANICAL NAME / COMMON NAME	<u>QTY</u>
BIO	Bio Barrier-'Typar' or equal	Verify LF
GRAVEL	Selected by client	Verify qua
MULCH	Grade B+ Cypress Mulch	Verify qua
SOD	'Empire' Zoysia	Verify SF

• ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE. • ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER, AS DESCRIBED IN GRADES AND STANDARDS FOR NURSERY PLANTS, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, TALLAHASSEE

• SHRUBS AND HEDGES. SHALL BE A MINIMUM OF TWO FEET IN HEIGHT WHEN MEASURED IMMEDIATELY AFTER

• MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS • TREES OR PALMS PLANTED IN SOD SHALL HAVE MULCH RINGS TO PROTECT THEM FROM LAWN MAINTENANCE

• THREE (3) PALMS ARE EQUIVALENT TO (1) SHADE TREE. NO MORE THAN 50 PERCENT OF THE REQUIRED TREES

• TREES SHALL BE A SPECIES HAVING AN AVERAGE MATURE SPREAD OF CROWN GREATER THAN 20 FEET AND HAVING TRUNKS WHICH CAN BE MAINTAINED IN A CLEAN CONDITION WITH OVER SIX FEET OF CLEAR MATURE WOOD. TREES HAVING AN AVERAGE MATURE SPREAD OF CROWN LESS THAN 20 FEET MAY BE SUBSTITUTED BY GROUPING THE SAME SO AS TO CREATE THE EQUIVALENT OF A 20 FOOT SPREAD OF CROWN.

• TREE/PALM SPECIES REQUIRED FOR SINGLE FAMILY HOMES AND DUPLEXES SHALL BE A MINIMUM OF 12 FEET IN OVERALL HEIGHT AT THE TIME OF PLANTING, WITH A MINIMUM OF FOUR FEET OF SINGLE STRAIGHT TRUNK WITH SIX

• ANY TREES PLACED WITHIN THE WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF

• TO PROTECT AGAINST GANODERMA PALM FUNGUS, ALWAYS REMOVE ALL PALM STUMPS FROM PROPERTY. • ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED IRRIGATION SYSTEM AND SHALL BE

• ALL SYSTEMS SHALL BE DESIGNED TO ALLOW FOR HEAD-TO-HEAD COVERAGE (100 % COVERAGE WITH 100 %

• SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO

• SPRINKLER HEADS SHALL BE INSTALLED TO MINIMIZE SPRAY UPON ANY PUBLIC ACCESS, SIDEWALK, STREET OR

• THE USE OF POP-UP SPRINKLER HEADS IS REQUIRED IN SWALE AREAS BETWEEN THE PROPERTY LINE AND THE PAVEMENT EDGE OF THE ADJACENT ROW TO MINIMIZE PEDESTRIAN HAZARD.

	07/14/21	09/01/21	11/10/21	12/01/21	12/02/21					
ISSUED FOR:	SUBMISSION	REVISED	SUBMISSION	REVISED	REVISED					
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Napa Model Delray Beach, Delray Ridge



<u>QTY</u>	REMARKS
Verify LF in field	PROVIDE BIO BARRIER ROOT CONTROL AT ROOTBALLS AS REQUIRED BY UTILITIES
Verify quantity in field	PROVIDE MIN. 2" THICK APPLICATION PROVIDE OPTIONAL BLACK ALUMINUM EDGING ALONG LANDSCAPE BEDS-PERMALOC 'CLEAN LINE' OR EQUAL
Verify quantity in field	MINIMUM 3" DEPTH
Verify SF in field	MINIMUM 16"X24" PIECES, GRADED #1 OR BETTER, SEE LANDSCAPE SPECIFICATIONS SHEET

seal Stephanie Portus FL Reg LA 6667215

project number 20-102 sheet name

sheet number

LANDSCAPE PLAN



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1" = 10'-0"

1.0 GENERAL

1.1 DESCRIPTION OF WORK:

A. Extent of landscape development work is shown on the Drawings and in the related Schedules. **B.** The work consists of furnishing all plants, materials, equipment, necessary specialties and

labor required for the installation of plant and other materials as shown on the Drawings and/or in the Specifications. C. Excavation, filling and grading required to establish elevations shown on the Drawings are

not specified in this Section. Refer to earthwork Section. **1.2 REFERENCE PUBLICATIONS:**

The following standards form a part of the Specifications:

A. Florida Department of Agriculture "Grades and Standards for Nursery Plants", most recent edition.

- **B.** American Joint Committee on Horticultural Nomenclature
- "Standardized Plant Names Dictionary"
- C. The American Standard for Nursery Stock" (2004 edition) **D.** American National Standards Institute-ANSI
- ANSI A300 and ANSI Z60.1-most recent edition
- E. Florida Friendly Best Management Practices for Protection of Water Resources
- by Green Industries, Florida Dept of Environmental Protection, Rev Dec 2008
- F. IFAS -Institute of Food and Agricultural Sciences, University of Florida. http://hort.ufl.edu/woody/index.html
- **1.3 INSTALLER CONTRACTOR QUALIFICATIONS:**

A. The 'Contractor' shall be State licensed and regularly engaged in the installation of living plant material. Labor crews shall be controlled and directed by a landscape foreman professionally trained and well versed in landscape installation, plant materials, reading blueprints and coordination between the job and nursery and shall be able to communicate with the Owner and the Landscape Architect.

B. The Contractor shall be licensed and shall carry any necessary insurance and shall protect CT - clear trunk measurement from top of ball the Landscape Architect and Owner against all liabilities, claims or demands for injuries or damage to any person or property growing out of the performance of the work under this contract. All workers shall be covered by Workmen's Compensation Insurance. 1.4 SUBMITTALS: Refer to schedule of submittals.

1.5 COORDINATION:

A. Coordinate and cooperate with other trades and contractors to enable the work to proceed as rapidly and efficiently as possible

shrubs and ground cover plants before lawns are installed

C. Commencement of Work; Landscape Contractor shall notify Landscape Architect at least 7 days in advance of scheduled commencement of work. Landscape Contractor shall review plans and/or field layouts with Landscape Architect at least 2 days prior to installation or on the site as needed **1.6 INSPECTION OF SITE:** Prior to the award of the contract, the Contractor shall acquaint

himself with all site conditions. Should utilities or other improvements not shown on the Drawings be found during excavations, Contractor shall promptly notify the Landscape Architect or Owner for instructions as to further action. Failure to do so will make Contractor liable for any and all damage arising from his operations subsequent to discovery of such utilities not shown on Drawings.

1.7 PROTECTION OF EXISTING PLANTS AND SITE CONDITIONS:

A. The Contractor shall provide, install and maintain the of necessary precautions to protect all persons and property, including the general public from harm or injury due to the work. **B.** The Contractor shall take precautions to protect existing site conditions. Should damage be incurred, the Contractor shall repair the damage to return the object or area to its original condition at no additional charge

C. Utility Locates - Regardless of utilities that may or may not be shown on the drawings, the not exceed the bid item replaced, without owner approval. Contractor shall be responsible to have utilities located in the area of work before the work **2.3 PLANTING SOIL:** Planting soil shall be free draining, sandy loam and shall contain a 5% to plant materials that may be required of any Utility company

1.8 CHANGES IN THE WORK: The Owner reserves the right to substitute, add or delete any material or work as the work progresses. Adjustment to the Contract Sum shall be approved by the Owner by a written Change Order, prior to execution. The Owner shall be given (2) week notice for the opportunity to review and approve all plant materials delivered to the job site prior to installation. When unit prices have been established, they shall prevail for all lumps Contract Additions. For Contract Reductions, the Owner shall receive full credit, based on unit pricing, if changes are implemented prior to delivery of plant materials. If Owner changes are made prior to installation, Owner shall receive a credit for labor to install plants, less costs associated with purchase and delivery. The Landscape Architect assumes no financial or material responsibility for any changes made by, or on behalf of the the Owner. 1.9 OWNERS OBSÉRVATIÓN:

A. The Landscape Architect or Owner assumes no responsibility for the Contractor's means Owner's satisfaction, that the Design Intent of the Drawings and Specifications are being tested by an independent professional testing lab for analysis and fertility recommendations. properly interpreted. This observation and checking will not relieve the Contractor of any **B**. responsibility for the performance of his work in accordance with the Drawings and the Micro-Macro International P 706-548-4557 F 706-548-4891 Web: www.mmilabs.com Specifications (including proper planting practices or other material or performance 183 Paradise Bvd, Suite 10B, Athens, Georgia, 30607 deficiencies).

B. The Landscape Architect and Owner reserve the right to reject any portion of the work, material or workmanship which does not conform to the Contract Documents and Standard set forth herein. Rejected work shall be removed and/or corrected by the Contractor, at his own expense, at the earliest possible time and prior to final payment. 1.10 PROJECT CONDITIONS:

A. Familiarization with Overall Project Requirements: The Contractor shall review and become familiar with the Design and Overall intent of the proposed Work related to the Contractor's Work including but not limited to: Civil engineering and Drainage Plans, Architectural layouts, project/ area access, contractor equipment access, existing and proposed utility locations, Irrigation Plans, Outdoor Lighting Plans, Paving Plans, Project Sequence and Timing plans, Town/HOA/ neighborhood requirements, etc.

Obstructions: The Contractor shall exercise care in digging and other work so as not to damage existing work, including underground pipes, sprinklers, control cables and hydrants of watering systems. Should such overhead or underground obstruction be encountered which interferes with planting, the Landscape Architect shall be consulted for consideration for alternate locations of plants to clear such obstructions. The Contractor shall be responsible for the immediate repair of any damage caused by his work.

C. After notice to proceed, the Contractor shall complete landscape work in a timely manner, as portions of site become available. Actual planting shall be performed only when weather and soil conditions are suitable in accordance with locally accepted practice.

D. Contractor shall coordinate landscape and planting work with other trades, such as, the rrigation (sprinkler) installer, electrician, lighting installer, paving installer, and sod installer; Landscape installer shall coordinate to ensure that no plantings will interfere with the proper functioning of the sprinkler system. The Contractor shall point out to the Irrigation installer situations where minor adjustment or relocation or addition of sprinkler heads may be most beneficial for the planting as a whole. The Location of specimen plant materials, trees, palms and large shrubs shall prevail over irrigation head placement. 1.11 ACCEPTANCE:

A. At the discretion of the Owner, early acceptance of the work may be obtained for progress payment of approved phases; or when the time between commencement of the work and substantial completion exceeds 90 days (at no fault of the contractor). Early acceptance shall be contingent upon a satisfactory inspection of the completed landscape work by the Landscape Architect and/or the Owner.

B. Substantial Completion of the Work is the point in construction when the Work is sufficiently complete; in accordance with the Contract Documents; all related clean-up has been performed; and the Landscape Architect's provide an opinion that the Owner can utilize the work as intended. C. Final Completion is the completion of all work included in the Contract Documents except D.

the Contractors responsibility to correct the work to the satisfaction of the Owner and the Landscape Architect. The Warranty Period and Maintenance period shall commence upon Final Acceptance 1.12 WARRANTY PERIOD and CORRECTION OF THE WORK:

A. For a period of twelve months from the date of acceptance, all new plant materials except grass shall be alive and healthy, upright and in satisfactory growth for each specific kind of plant. There shall be no signs of nutrient deficiency, disease or insect infestations.

B. Plants which are rejected shall be replaced or corrected within two weeks of rejection. Replacement material shall be the same species, size and quality as called for in the Contract. A acceptance by the Landscape Architect of all replacement plants, this includes plants which are rates, see 2.7C. discovered at any time to have been planted at an improper depth.

C. The installer shall repair damage to other plants or lawns that occurs during the plant replacement process at no cost to the Owner.

D. D. Plants which have been approved and subsequently die or are damaged by washout, wind storm, traffic, vandalism, or demonstrable failure of the Owner to maintain after Substantial Completion of the Work is not covered in this correction of the work provision

2.0 PRODUCTS

3.1 PREPARATION, SITE WORK AND COORDINATION: I. Remediation of Root defects - The Contractor shall inspect all plant material for root defects including 2.1 MATERIALS LIST: Grading: Contractor shall inspect the site to verify that finish grades (accurate within 2" (51 but not limited to: root-bound containers; circling roots; girdling roots; sub grade, embedded root Plant species and size shall conform with the Plant List and information noted on the mm), have been established in accordance with Civil Engineer's Drainage Plan and the Landscape collars; adventitious roots; etc. All Root Collars shall be exposed and visible at the time of planting Architect's shaping and grading Plan or other job requirements prior to beginning any planting Plants with two (2) or more girdling roots; plants from root-bound containers; or plants with circling Drawings The quantities given in the Plant List are intended for the convenience and as a guide for the operations. Coordinate with Landscape Architect and General Contractor for release of areas before roots greater than 75% of the pot circumference shall be rejected and replaced at the Contractor's bidder and does not relieve the bidder of his responsibility to do a comprehensive plant take off planting operations begin expense. Plants with minor root defects shall be trimmed with clean, sanitized, sharp tools according to from the Drawings. Information on the drawings control. Rough Grading and Shaping – Rough grading and bulk filling of site shall be the general proper horticultural practice prior to planting. Plants shall be well watered prior to, and after, root responsibility of the General Contractor unless otherwise noted. Rough grade shall include 2.2 PLANT MATERIALS: trimming procedures. Plants that die as a result of root pruning are considered excessively defective

placement and distribution of bulk fill material sufficient to generally be within -4" of final grade for and shall be replaced at Contractor's expense. All plant material shall be nursery grown unless otherwise noted. Plants shall be graded landscape and within -2" of final grade for sod areas. Rough grades shall conform with the general internal Circling Roots - shear off outer 1"-2" of rootball circumference intent of the drainage and grading plans. Rough grades may be field adjusted to allow for fill as Internal Circling Roots - radial cuts to interrupt circle, remove 2" min section of root. Florida No. 1 or better and shall be sized as outlined under Grades & Standards for Nursery Plants, State Plant Board of Florida. Coconut Palms shall be grown from certified seed. Collected material when specified or approved shall be in good health, free from disease, generated by planting activities. Girdling Roots-cut and remove the 2" min section of the girdling root at the surface.

insect or weed infestation. Testing may be required at the discretion of the Landscape Architect **Č**. Finish Grading - Finish and final grading shall be reviewed, approved and released by Root Knots - trim or remove. For more information- refer to University of Florida- IFAS Website Landscape Architect or authorized Project Manager. Landscape Contractor shall notify LA/ Project and/or the Owner and shall be provided at no additional cost. http://hort.ufl.edu/woody/index.html Plants materials must equal or exceed the measurements specified in the plant list, which are Manager, in writing, 3 days before planting work in a given area is expected to commence. Finish For Root management -Refer to http://hort.ufl.edu/woody/roots.html the minimum acceptable sizes. Those plants specified as specimens are to be approved by the Grades are the responsibility of the Landscape Contractor -including box blading and leveling of J. Setting Trees and Shrubs: Unless otherwise specified, all trees and shrubs shall be planted in pits, centered to such depths that the finished grade level of the Root Collar, after settlement, shall be the Landscape Architect before being brought to the site. Unless otherwise noted on the drawings, open sod areas these plants shall be Florida Fancy Finish grades of all planting areas shall be at 2" below pavement, after planting unless otherwise same as, or slightly above, that at which the plant was originally grown. They shall be planted upright D. Height of plant materials shall be measured from the top of the ball to the top of the plant with noted. Finish grades shall include any top soil and soil amendments as specified. If at any time the and faced to give the best appearance or relationship to adjacent structures. The Contractor shall be branches (or fronds) in normal position. Their width shall be measured across the normal spread of sub-grades are determined to be inadequate for proper design, the Project Manager should be responsible to raise and re-set all plant materials where root collars are found below finish grade at their

the branches (or fronds). In cluster type palms the main trunk shall meet the height requirement and given notification in writing

own expense all other trunks shall be 3/4 or more of the required height unless otherwise noted on the drawings. D. Top soils -The supply, placement and grading of Top soils shall be the responsibility of the Along slopes, a soil terrace shall be formed so that the top of the Root Collar is level with existing grade Where symmetry is required, match plants used as nearly as possible to the satisfaction of the Landscape Contractor unless other determined in the Construction Documents. on the up-slope side. No burlap shall be pulled out from under the balls. Tree boxes, platforms, wire, Landscape Architect Irrigation-The Landscape Contractor shall closely coordinate with the Irrigation installer. lifting loops and surplus binding from top and sides of the balls, shall be removed. Some wire or binding Plants that meet the height requirements, specified, but do not have the normal balance of Irrigation system shall be installed according to Irrigation Plans and Specifications with any may remain if tight and necessary for rootball integrity. Any broken and frayed roots shall be cut off neight and spread typical for the respective plant, shall not be accepted necessary field adjustments to complement the Landscaping Plans. Spray zones for sod and cleanly. Backfill soil shall be placed and tamped thoroughly and shall be settled by watering. No filling Abbreviations on the Drawings are as follows: planted areas as described shall have 105% head to head coverage, matched precipitation rates around trunks or on top of root balls will be permitted. After the backfill settles, additional soil shall be B&B - field grown plant "balled and burlapped" and uniform water distribution with equipment as outlined. Drip emitters shall be installed per filled in to the level of the finished grade allowing for 2" (44.1 mm) of mulch. Form a shallow saucer Cal - caliper/diameter measured 6" (152.4 mm schedule. Drip and spray irrigation shall be fully operational and accepted before any mulch, stone, around each plant by digging a trough of soil along the edge of the plant pit. This trough shall be 3"-4" mm) diameter, the caliper measurement shall short ground covers or sod are installed. Irrigation zones shall be operating and accepted by (75 mm) deep. Specimen trees and Palms shall be equipped with supplemental irrigation (bubblers). Landscape Architect and/or irrigation designer before areas will be released for finish planting and/ K. Setting Palms: All palms shall be planted in sand thoroughly washed in during planting operations **CW** - clear wood, in palms the distance from soil line to lowest living frond leaf k - or mulching as noted above. In the event of conflicts with landscaping and irrigation pipes or and with a shallow saucer depression left at the soil line for future watering. caliper or diameter measured 4 feet (1.22 met emitters, the location of trees, palms, large shrubs and specimens shall prevail. Pipes and emitters L. Backfilling: When the plant pit has been excavated as specified above and the plant has been set, the **GW** - Greywood, in palms, mature trunk from shall be relocated/adjusted to eliminate conflict and allow for the proper function of equipment. pit shall be backfilled with clean soil mix. All backfill shall be watered thoroughly to settle and **OA** - overall height from top of ball to top of current season's growth or last open frond in normal **F**. Landscape Lighting – The Landscape Contractor shall closely coordinate with the Lighting consolidate soil and eliminate voids. Provide a shall trough around the outside of the rootball for water installer. Outdoor and site lighting system shall be installed according to the Lighting Plans and retention. Tops of all rootballs shall be left exposed and free of soil backfill materials. Do not distribute position in palms Specifications with any necessary field adjustments to complement the Landscaping Plans. **Spd** - spread or average distance across the average diameter of plant branching structure. any excess soil in any existing planted bed.

Root packaging and Containers: Plant materials in containers shall have a well established Landscape lighting conduit shall be coordinated and installed in conjunction with irrigation trenching M. Pruning: Remove dead/broken branches from all plant material. Thin out internal branching and B. Irrigation work shall normally precede plant installation Install trees, large B&B material, root system and shall not be root bound. All plant materials not in containers shall be installed and/or adjust AFTER major trees and palms prune to retain typ. growth habit of individual species with as much height and spread as is practicable. burlapped and dug with a firm natural ball of earth. Balls shall be firmly wrapped with burlap or are installed and before shrubs/ground covers are installed. In-ground fixtures or other work Make all pruning cuts with a sharp instrument next to branch collar to ensure elimination of similar biodegradable materials and bound with twine, cord or wire mesh. The minimum ball sizes requiring excavation, must be installed before sod, stone mulch and landscape mulch are installed. stubs.Headback or "Hat Rack" cuts, right angle to line of growth, will not be permitted will be in accordance with "Grades & Standards for Nursery Plants". No plant shall be accepted if Lighting stub-ups/placements shall be reviewed approved and released by Landscape Architect N. Guying and Staking: Guy and stake all trees, including palms, immediately after planting the root ball has been cracked or broken. All containers and root balls shall be kept moist at all before mulch, stone, ground covers or sod are installed. Trees less than11/2" (38.1 mm) in caliper shall be staked with vertical wood or metal stakes along the times. All plants which cannot be planted immediately on delivery shall be kept moist and protected G. Mulch, Edging and Stone Mulch-Before mulch of any kind is installed, Finish Grading, trunk. Stake shall be driven through the root ball and embed 12" min. into sub-grade. Attach tree trunk

from drying winds and sun. Container Grown Plants: Plants grown in containers will be accepted as "B&B", providing that accepted and released by either Landscape Architect or General Contractor all other specified requirements are met. Container grown plants shall meet plant sizes as specified H. Sod - Before sod of any kind will be installed, Finish Grading, Operational Irrigation, Lighting on the plant list and on the Drawings, and shall not be governed by container sizes. Minimum root conduit, in-ground fixtures, metal edging and mulch shall be in place and accepted and accepted latest edition of Florida "Grades & Standards" for nursery plants. Plants shall have been grown in subject to review and acceptance by Landscape Architect, before sod is installed. the container for a max. of 2 years prior to installation and shall exhibit a fully developed root system I. Removal of Rubbish: Any objectionable materials, such as stones/construction debris be throughout when removed from container. There shall be no girdling or circling roots exceeding encountered during planting operations, they shall be promptly removed from the site by the be clearly marked with high contrast fluorescent paint. Trees over 12' OA shall be braced with new 50% of the pot circumference.

Substitution: Plant substitution by the Contractor will be considered by Landscape Architect 3.2 PROTECTION OF PLANTS: high contrast fluorescent paint. only upon submission of proof that the plant is not obtainable in the type and size specified. Should A. Root Protection: All field grown trees, palms and plants shall be hand dug with sharp shovels 0. Staking and Bracing: When staking palms and broadleaf trees, no nails or fasteners shall directly the specified plant indeed not be available, the Landscape Architect shall determine the nearest or approved tree-spade. Backhoe-dug trees shall not be accepted. Roots shall be cleanly cut with penetrate the trunks. Wood battens: 12" -16" min(304-406 mm) min. length; separated from trunk by equivalent replacement in an obtainable size and variety. The unit price of the substitute item shall sharp instruments. Balled and burlapped plants: plants designated "B&B" shall be dug with firm, burlap; attached to the trunk of the trees with galvanized or stainless steel metal banding. Stakes and moist earth of sufficient diameter and depth to encompass the fibrous and feeding root braces shall be clearly marked and can only be nailed to the wooden battens. Alternate methods of system, necessary for full recovery of plant. Balls shall be firmly wrapped with burlap or similar guying or staking may be employed with the prior approval by Landscape Architect. Ground Stakes commences. The Contractor shall also verify and comply with any requirements or clearances minimum and a 15% maximum amount of decomposed organic matter. Planting soil shall be "B&B". Trees, palms shall be "B&B". Trees, palms shall be clearly marked w/ high contrast fluorescent paint. clay, stones, plants, roots, and other foreign materials which might be a hindrance to planting and plants shall not be dug during periods of excessive heat or drought unless supplemental water P. Mulching: All trees and shrub beds shall be mulched immediately after acceptance of the planting operations or be detrimental to good plant growth. It shall have a pH between 6.0 and 7.0. Soil shall is applied for at least 5-7 days in advance. bed by the Landscape Architect. Mulch shall be applied to a 3" (76.2 mm) depth, with a mulch as be delivered in a loose friable condition and applied in accordance with the planting specifications. Handling -containerized plants shall be handled by their container w/ proper support given to specified. Prevent wind displacement of mulch by thoroughly wetting down. Do not apply any mulch 2.4 PEAT: Horticultural peat composed of not less than 60% decomposed organic matter by all parts of plant to prevent damage. Trees and palms shall only be handled w/ padded slings rated against stems and trunks of plants. weight. on an oven dried basis. Peat shall be delivered to the site in a workable condition free from for 10x the weight of carried load. Trunks shall be wrapped min. 2X prior to cinch loop. No chain, rope Q. Annual/seasonal color beds: Remove 8" to 10" (254 mm) of soil and replace with planting soil or unpadded webbing shall be used to handle trees and palms. mixture consisting of Annual Planting Soil Mix per Section 2.8.E. Install annuals in fresh mix.

2.5 WATER: **C.** Protection During Transporting: All plant material shall be protected from possible injury or **R.** Planters: Includes free-standing pots and built-in architectural planters. Verify waterproofing and Clean Water for planting will be available at the site and shall be provided by the Owner breakage of branches. Provide all necessary splints, stakes, kraft paper wrapping and sleeves to drainage to suitable outfall. Place filtration/ separation fabric over 4" drain gravel in the bottom of the pot. unless special provision is determined in the Contract Documents secure and protect roots, stems and foliage of plant materials during shipment. All plants Add planting soil mix per Section 2.8.F. Place soil around plant materials in lightly compacted layers to Contractor shall determine the source and suitability of the Owner's water. In the event the transported by open trucks or sea-containers shall be adequately covered to prevent windburn, an elevation 2 inches (38.1 mm) below top of planters allowing for natural settlement. Recommend 6"-8" water source is not suitable, the Owner shall be given written notice of such at least two weeks prior drying or damage to plants. min depth of soil below rootball. Protection After Delivery: Plants which cannot be planted immediately on delivery to the site to the commencement of Work.

S. Disposal of Excess Excavated Soil: Excess soil, raked debris and rocks shall be removed and shall be kept moist at all times and provided protection from the drying of wind and sun. All plants disposed by the Contractor to a suitable and legal disposal location off-site, at no additional expense to 2.6 SOIL TESTING: Landscape Contractor shall provide testing of existing soils on Site for all soil types, including shall be kept moist as necessary until planted. Storage period shall not exceed 72 hours. In plants the Owner. and methods in the execution of this contract beyond the observation to ensure, to the imported soils, in the planting area. No less than 2 representative samples shall be 'heeled-in'' earth trench rows and maintained in T. Relocation of Existing Material: Landscape contractor shall root prune trees which are to be healthy, moist condition until final installation. relocated in accordance with approved horticultural practices. The relocated plant shall have foliage Soil Testing Lab - Call for Info, testing services, fees and Import permit. **E.** Protection of Palms: A minimum number of fronds shall be removed from the crown of palm reduced and be provided with supplemental irrigation to the remaining leaf surface. Coordinate with trees to facilitate moving/handling. Remaining fronds shall be tied and braced if required. Landscape Architect for relocation requirements.

3.4 SOD 2.7 COMMERCIAL FERTILIZER and PLANTING AMENDMENTS: chain marks, girdling or bark slippage by means of burlap, padding, wood battens or other A. Sod shall be as spec'd on Dwgs. Sodded area shall be all areas not otherwise noted and include **A.** Fertilizer and fertilization rates for the project shall be provided and applied based on the approved methods. adjacent public yards beyond the property line to edge of pavement and/or edge of water. results of the soils test. Follow all Manufacturer's Label Rates and application recommendations. **G.** Plants that show symptoms of bark compression, girdling or bark slippage or other damage **B.** Fine Grading & Drainage: The Contractor shall verify drainage surface drainage flows and Commercial fertilizer shall be slow-release organic formulation containing nitrogen, are unacceptable. shaping in accordance with the Civil Drawings and the Grading plans. Contractor shall be responsible phosphorus and potassium, not to exceed an analysis of 6-6-6. Nitrogen shall be not less than 50% H. Special Treatment and Handling: Sabal Palms (Cabbage Palms) shall be "hurricane cut" in for providing and maintaining positive drainage flows away from all building and pavements to the water insoluble., inorganic nitrogen and shall not be derived from the sodium form of nitrate. Iron the field prior to transport. Clear trunk shall be as specified after the minimum nuber of fronds have appropriate discharge or collection points. shall be in the chelated form, not be less than 2% and magnesium shall not be less than 2%. been removed. Sabal Palms shall be taken from moist, "black" growing areas. All burn marks on C. Topsoil shall be leveled and spread to a depth of 3"-4" min. No sod shall be laid until the depth of Fertilizers shall be delivered to the site unopened in original containers, each bearing the Sabal Palm trunks shall be removed. Collected or Field Dug Specimen Palms - All field dug palms, the soil has been approved. Grade shall be adjusted to create a smooth transition between new and manufacturer's ingredients and guaranteed analysis. Submit a copy of the Manufacturer's (except-Adonidia,Cocos,Phoenix,Washingtonia,Ptychosperma,Hyophorbe sp.) palms shall be root existing sod areas. guaranteed analysis and proof of delivery to the Landscape Architect. Any fertilizer that becomes pruned for 2 months in advance of being lifted and moved. All palms shall be watered for1week **D**. All sod areas shall be fine graded and raked, eliminating bumps, depressions, sticks, stones and other debris prior to digging in the field. Heads shall have the lower 50% of fronds removed or as otherwise caked or otherwise damaged is unacceptable. greater than 1/2" dia, to the satisfaction of the Landscape Architect, prior to the installation of sod. Microbial Additives: Mycorrhizal and microbial additives shall provided as specified in the determined by Supplier. Heads shall be securely tied and secured before transporting. Heads shall Sod Quantities: Any quantities shown on the Drawings or given in the Plant List are intended for the Schedule of Soil amendments. Contractor shall submit a copy of the manufacturer's label/ product remain tied-up until new root growth is visible or as otherwise determined by Supplier. All Palms convenience and as a guide for the bidder and does not relieve the bidder of his responsibility to do a use instructions that include: all ingredients, guaranteed analysis and application rates. All shall have heads tied and braced during shipping & handling. Canary Date Palms shall have heads comprehensive quantity take off (measurement) from the Drawings or in the field. Contractor shall be responsible supplements shall be supplied in fresh, unopened packaging prior to product expiration. Product securely stabilized with 4x4 bud splints for sodding all areas as noted on drawings. Contractor shall verify all final sod quantities in the field prior to ordering, that becomes caked or damaged is unacceptable and shall not be used. 3.3 PLANTING OPERATIONS: including any necessary adjustments for shrinkage/coverage variables.

2.8 MISCELLANEOUS LANDSCAPE MATÉRIALS:

A. Layout: The location for plants and outlines of areas to be planted are indicated on the Sod Quality: Sod shall be graded #1 or better. Sod shall be loam-grown w/ a firm, full texture and good root . Mulch: Shredded hardwood mulch -grade "A" -verify color. Mulch shall not contain chunks Drawings. All plant locations shall be laid out painted/flagged in field by the Contractor to the development. Sod shall be thick, healthy and free from defects and debris including but not limited to dead thatch, larger than 1 inch (25.4 mm) in diameter, branches, stones or other foreign material that will prevent satisfaction of the Landscape Architect before planting operations commence. In general, all insects, fungus, diseases and contamination by weeds, other grass varieties or objectionable plant material. its eventual decay. trees, palms and accent plants shall be laid out, planted and approved by the Landscape Architect G. Sod pieces shall be 16" x 24" min. size in unbroken, cohesive sections or furnished in an otherwise Alternate Mulches: Pine Bark Nuggets - Jumbo size, Pine Straw prior to the layout of shrubs/ground covers.Notify Landscape Architect and Owner for directions if approved manner. Gravel Mulch: Provide samples of all gravels to Landscape Architect for approval prior to site conditions requires the addition of soil over existing roots or where construction or utilities below Before being cut and lifted, sod shall have been regularly watered and mown at least 3 times w/ a lawn ordering. Gravel shall be used only where specifically indicated on the plans of the size and type ground or overhead are encountered, or where changes have been made in the construction - DO mower, w/ final mowing not more than 7 days before sod is out. NOT PROCEED - Any necessary adjustments will be directed by the Landscape Architect. shown. Unless otherwise specified it shall be water-worn, hard, durable gravel, washed free of loam, Sod shall be delivered and installed in green, healthy, viable condition. Yellow, Brown or excessivel sand, clay and other foreign substances. It shall be a minimum of 2" (44.2 mm) deep and shall be B. Clearances: Shrub/hedge material shall be planted a min. of 30" (0.75 m) away from wall or wilted sod shall not be accepted. contained with gravel stops. It shall be a maximum of 1-1/2" (38.1 mm), a minimum of 3/4" (19 mm) other obstructions (including parking stops). Groundcover (1 gal or less) material (except sod) shall J. Sod shall be laid w/closely abutting joints w/a tamped or rolled, even surface. The Contractor shall bring the be planted 16" (10.41 m) away from pavement or edging unless otherwise noted. Vines shall be sod edge in a neat, clean manner to edge of all paving and shrub areas. Clear circular areas shall be provided and of a readily-available natural gravel color range. Braces, Battens and Stakes-Provide braces, battens, stakes and deadman of sound new attached with copper wire to brass screws in lead anchors to walls. Make minor adjustments as around all free-standing trees in open sodded areas. If, in the opinion of the Landscape Architect, top-dressing is necessary after rolling, clean sand will be evenly applied over entire surface and thoroughly washed in w/o addit

pressure-treated lumber, free of knot holes and other defects. Braces shall be pressure-treated 2x may be required. lumber (4x lumber where appropriate) and shall be secured to battens and stakes with a min of (2) C. All planting holes shall have straight, vertical sides and flat horizontal bottoms. The diameter of charge. 16D, dbl head galv. forming nails. Battens shall be 2x4 pressure treated lumber and padded with a hole shall not be less than twice the diameter of the root ball or 24 inches (609.6 mm) greater than K. Sod along slopes shall be pegged to hold sod in place along slopes/banks. A wood peg acceptable to the burlap. Battens shall be secured to tree trunks with 3/4" Stainless steel or galvanized banding. the root ball, whichever is smaller. The depth of a hole shall not be deeper than the root ball. The Landscape Architect shall be used at no addit cost to Owner. Stakes shall be pressure-treated 2x lumber and shall be driven to within 2" of the surrounding grade. bottoms of planting holes shall be tamped to minimize settling. **3.5 CLEAN UP:** All exposed ground-stakes shall be painted with a high-visibility, contrasting, fluorescent paint until D. Contractor shall confirm that all planting holes are free draining and percolate water. If Sweep and wash all walls and paved surfaces. substantial completion. Braces and stakes shall be repainted a dark walnut brown stain unless hardpan, compacted soils, clay or rock are encountered, immediately notify Landscape Architect to B. Remove planting debris from project site daily. Ensure all plant material is free of damaged branches, otherwise noted. Stakes and braces shall be placed within mulch beads and oriented away from determine remedial measures. flagging tape and other temporary materials.

walking areas. Backfill and Soil Amendments-Backfill shall be clean, fine, granular loamy soil unless otherwise Lawn areas damaged by planting operations shall be resodded to original condition. Guys and Anchors: Provide one of the following: 1) wire guys shall be two- strand, twisted, noted. All palms shall be backfilled w/ clean, washed, salt-free sand. Clumpy or rocky soils shall be Walks, drainage pipes or other structures damaged by this Contractor shall be repaired to original condition. pliable galvanized iron wire not lighter than 12 gauge. Provide new hose cut to required lengths to screened or replaced w/ appropriate material prior to backfilling. Refer to soil report Remove soil ridges around watering basins prior to end of maintenance period. protect tree trunks from damage by wires. Hose shall be not less than 1/2" (12.7 mm) dia.: 2) recommendation for fertilizer type/rates. Additionally, Mycorrhizae and soil bacteria shall be added 3.6 MAINTENANCE DURING CONTRACT PERIOD Noven Polyethylene Webbing -shall be min 2" wide. Trunks and stems shall be wrapped at least at the manufacturer's recommended rates (see 2.7c). The following minimum rates of soil mix Α. The Contractor's maintenance shall include watering, pruning, spraying, weeding, mowing, insect treatment, twice and secured with adjustable knots. Stakes per Sec C. above. apply; 1/2 cubic yard per tree and 1 cubic yard per 50 shrubs. disease treatment, micro organisms applications and other necessary maintenance operations to create a healthy, Soil Mix for Annual or seasonal color beds: 2 parts top soil, 1 part fine pine bark mulch (1/2" All plants shall be handled and installed in accordance w/ the Construction Documents and vigorous landscape. pounds (1.8662 kg) composted cow manure per best appropriate horticultural practice. Trees and shrubs, except as otherwise specified, shall be set (12.7 mm) pieces),1 part coarse sand and 50 The Contractor assumes responsibility for all maintenance during the construction period, beginning cubic vard (.76455 cubic meters). Mix in Osmocote fertilizer and micro-organisms at label rates, see in the proper size of planting pit so that the top surface of the Root Collar/root ball will be 1"-2" above immediately after each item is planted and to continue until final inspection and acceptance. Areas completed the final grade. Verify adequate percolation of the planting hole. Set plants straight and plumb under "Early Acceptance" of the work or approved phases of the work shall be maintained for an addiit 90 days or - Planter Soil Mixture: a loose, friable blend consisting of:5 parts coarse sand, 2 parts peat humus or unless otherwise noted. Select trees, palms and accents shall be leaned, oriented or faced as until final acceptance of work, which ever occurs first. new correction of the work period of twelve (12) months shall begin upon replacement and bagged topsoil and 3 parts pinebark; Mix in Osmocote fertilizer and microorganisms at label determined by Landscape Architect or as shown on the drawings. The Contractor shall replace unhealthy, damaged or dead plants promptly. Contractor shall be responsible

d".		
n) above soil line. For trunks larger than 4"	(88.4	
n) above soil line. For trunks larger than 4" be determined at 12" above soil line.	(
I to first branching.		

soil line to lowest living frond leaf base.	DBH	
ters) above soil line		
ground to base of the green crown shaft.		
urrent concen's growth or last open frond	in norr	\mathbf{n}

3.0 EXECUTION

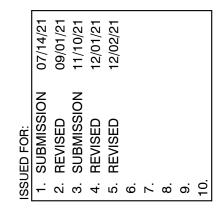
Operational Irrigation, Lighting conduit, in-ground fixtures and metal edging shall be in place and to the stake with 3/4" width elastic pruning tape. Double wrap trunk to avoid chaffing. Tie firmly, but not tightly to the stake. Stake shall be cut off at least 12" below the top of the plant. Trees 1 1/2" (38.1 mm) in caliper and greater but less than 12' OA shall be guyed in 3 directions with double strands of No.12 galvanized wire (or rated woven polyethylene webbing) attached to approved stakes or anchors driven balls of container grown material shall be no more than 25% less proportionately than that stated in by Landscape contractor is responsible for all fine grading flush with grade. When securing wires to trees, cover all wires which may come in contact with any part of tree with new rubber hose. Place guys and braces not less than 1/3 of the height of tree above finished grade and above substantial limbs1 inch (25.4 mm) in diameter or more. Ground Stakes shall lumber per staking detail. Provide stained where noted. Ground Stakes shall be clearly marked with landscape installer

F. Protection During Planting: Trees moved by winch or crane shall be thoroughly protected from

G. B&B plants are set with bottom1/3 of planting pit backfilled w/ existing site soil. Remove for costs to provide access to unacceptable plants identified during the Contract period. burlap.rope.wires.etc. from any trunk and top surface of balls. Do not remove burlap from D The Contractor shall Inspect plants at least once a week and perform maintenance promptly. Keep planting underneath.All remaining wrapping material shall be biodegradable. No material shall encircle the saucers and beds free of weeds, grass, and other undesirable vegetation growth. trunk. Complete backfilling w/ native soil (or specified soil mix) and water thoroughly to remove voids. After planting has been completed form a trough around each plant extending to the limits of the pit. Some wire wrapping and bundling may remain to maintain the integrity of the root ball. Review removal requirements in advance with the Landscape Architect.

H. Container Grown Plants: Shall, when delivered, have sufficient root growth to hold earth intact when removed from container and shall not be root bound. Plant pits for container materials shall be formed flat on the bottom to avoid air pockets at the bottom of root balls. Containers shall be removed carefully to prevent damage to plant or root system.

3.0 EXECUTION CONT.



Stephanie Portus FL Reg LA 6667215

project numbe 20-102

sheet name

sheet numbe





