2/14/2025

- 5980 NORTH BAY ROAD - MIAMI BEACH, FL

DRB 1ST SUBMITTAL PHASE 3

SHEET INDEX

5980 NORTH BAY ROAD - SHEET INDEX		x = SHEET SUBMITTED				- = SHEET REVISED	
SHEET #		DRB 1ST SUBMITTAL PHASE 3 02/16/2025					
L-0	COVER SHEET + SHEET INDEX	X					
L-1	TREE DISPOSITION PLAN	X					
L-1.1	TREE DISPOSITION SCHEDULE	X					
L-1.2	TREE MITIGATION PLAN AND SCHEDULE	X					
L-2	ILLUSTRATIVE OVERALL SITE PLAN	X					
L-5	CANOPY PLANTING PLAN	X					
L-5.1	UNDERSTORY PLANTING PLAN + LANDSCAPE MATERIALS	X					
L-5.2	PLANTING SCHEDULES + CODE CALCULATIONS	X					
L-5.3	PLANTING DETAILS	X					
L-5.4	PLANTING DETAILS	X					
L-5.5	GENERAL LANDSCAPE NOTES	X					

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5980 NORTH BAY ROAD RESIDENCE
MIAMI BEACH, FL

SITE ADDRESS:

5980 NORTH BAY ROAD
MIAMI BEACH, FL 33140

LANDSCAPE ARCHITECT:

CLAD
8020 NE 4TH AVE, STUDIO 113
MIAMI, FL 33138
(786) 536-6076
INFO@CLADLANDSCAPE.COM

SEAL:

Carolina Monteiro da Silva
Digitally signed by Carolina Monteiro da Silva
DN: CN=Carolina Monteiro da Silva, O=Carolina Monteiro da Silva, L=Miami, S=Florida, C=US
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CAROLINA MONTEIRO DA SILVA
REGISTERED LANDSCAPE ARCHITECT
LA6667311

DRAWING TITLE:

COVER SHEET + SHEET INDEX

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SCALE:
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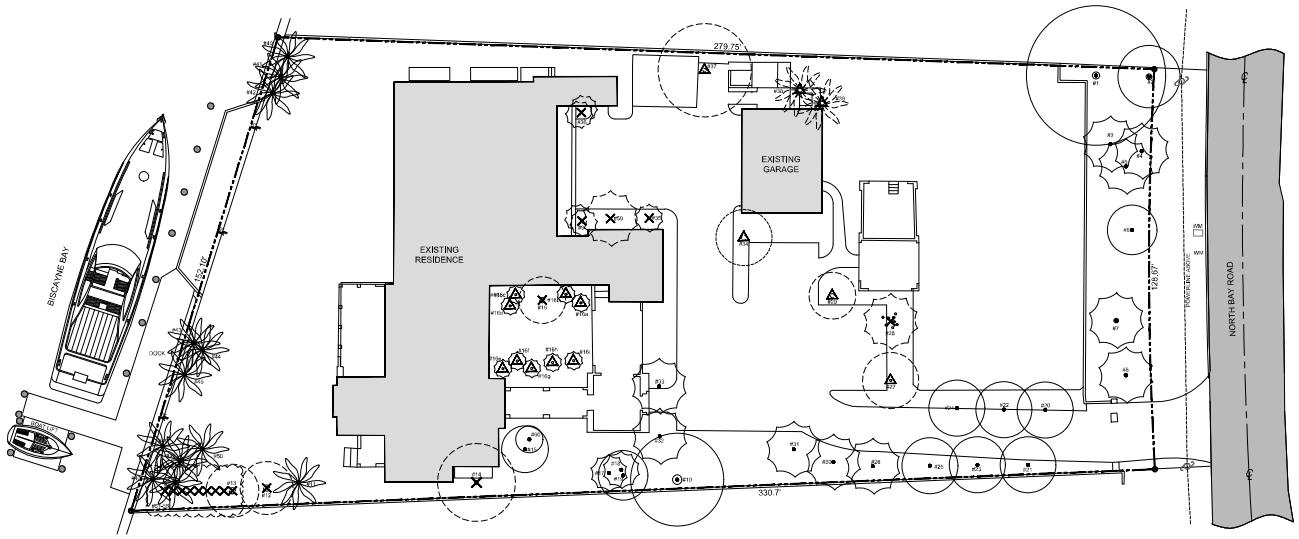
PROJ. N°:
2134
SHEET N°:
L-0

2/14/2025



TREE DISPOSITION SYMBOL LEGEND:

- TREE TO REMAIN
- TREE TO RELOCATE
- TREE TO REMOVE
- PALM TO REMAIN
- PALM TO RELOCATE
- PALM TO REMOVE

0 10 20 40

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CAROLINA MONTEIRO DA SILVA
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DRAWING TITLE:

TREE DISPOSITION PLAN

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SCALE: 1/16" = 1'-0"

PROJ. N°: 2134

SHEET N°: L-1

2/14/2025

TREE DISPOSITION SCHEDULE - 5980 NORTH BAY ROAD

#	SCIENTIFC NAME	COMMON NAME	DBH (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	DISPOSITION	NOTES	DBH (IN) REMOVED	PALMS REMOVED
1	*Peltophorum ptevocarpum*	YELLOW POINCIANA	28	50	45	MODERATE	REMAIN			
2	*Ficus nitida*	INDIAN LAUREL	N/A	40	20	MODERATE	REMAIN			
3	*Bismarckia nobilis*	BISMARCK PALM	16	30	18	GOOD	REMAIN			
4	*Bismarckia nobilis*	BISMARCK PALM	12	25	18	GOOD	REMAIN			
5	*Bismarckia nobilis*	BISMARCK PALM	15	20	18	MODERATE	REMAIN			
6	*Quercus virginiana*	LIVE OAK	10	20	16	GOOD	REMAIN			
7	*Roystonea regia*	ROYAL PALM	18	60	18	GOOD	REMAIN			
8	*Phoenix sylvestris*	SYLVESTER PALM	14	22	18	GOOD	REMAIN			
9	*Adonidia merrillii*	DOUBLE CHRISTMAS PALM	6,6	18	10	GOOD	REMOVE			1
10	*Tabebuia ssp.*	TRUMPET TREE	36	50	30	MODERATE	REMAIN			
11	*Cocos nucifera*	COCONUT PALM	7	25	16	MODERATE	REMAIN			
12**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	12,8,14,8	30	16	GOOD	REMOVE	INVASIVE		
13**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	8,6,5	30	16	GOOD	REMOVE	INVASIVE		
14**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	9,11	35	25	GOOD	REMOVE	INVASIVE		
15	*Pandanus utilis*	SCREW PINE	9,6	30	15	MODERATE	REMAIN			
16	*Pandanus utilis*	SCREW PINE	10	20	15	MODERATE	REMOVE		10	
16a	*Ptychosperma elegans*	SOLITAIRE PALM	3	30	6	GOOD	RELOCATE			
16b	*Ptychosperma elegans*	SOLITAIRE PALM	4	30	4	MODERATE	RELOCATE			
16c	*Ptychosperma elegans*	SOLITAIRE PALM	4	30	6	GOOD	RELOCATE			
16d	*Ptychosperma elegans*	SOLITAIRE PALM	4	30	6	GOOD	RELOCATE			
16e	*Ptychosperma elegans*	SOLITAIRE PALM	3	30	6	GOOD	RELOCATE			
16f	*Ptychosperma elegans*	SOLITAIRE PALM	4	30	6	GOOD	RELOCATE			
16g	*Ptychosperma elegans*	SOLITAIRE PALM	4	30	6	GOOD	RELOCATE			
16h	*Ptychosperma elegans*	SOLITAIRE PALM	4	30	6	GOOD	RELOCATE			
16i	*Ptychosperma elegans*	SOLITAIRE PALM	4	25	6	MODERATE	RELOCATE			
17	*Sabal palmetto*	CABBAGE PALM	8	30	12	GOOD	REMAIN			
18	*Sabal palmetto*	CABBAGE PALM	8	30	12	GOOD	REMAIN			
19	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	8	25	16	GOOD	REMAIN	INVASIVE		
20	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	7	25	20	GOOD	REMAIN			
21	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	7	25	20	GOOD	REMAIN			
22	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	8	25	20	GOOD	REMAIN			
23	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	8	25	20	GOOD	REMAIN			
24	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	8	25	20	GOOD	REMAIN			
25	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	9	25	20	GOOD	REMAIN			
26	*Phoenix canariensis*	CANARY DATE PALM	18	20	16	GOOD	REMAIN			
27	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	8	22	18	MODERATE	RELOCATE			
28	*Phoenix reclinata*	SENEGAL DATE PALM	5,7,5,7,6,5,5	18	12	GOOD	REMOVE			1
29	*Bulnesia arborea*	VERAWOOD	8	18	10	MODERATE	RELOCATE			
30	*Phoenix canariensis*	CANARY DATE PALM	18	35	16	MODERATE	REMAIN			
31	*Phoenix canariensis*	CANARY DATE PALM	18	40	16	MODERATE	REMAIN			
32	*Phoenix sylvestris*	SYLVESTER PALM	16	25	18	GOOD	REMAIN			
33	*Phoenix sylvestris*	SYLVESTER PALM	16	30	18	GOOD	REMAIN			
34	*Bucida buceras*	BLACK OLIVE 'SHADY LADY"	10	22	18	GOOD	RELOCATE			
35	*Phoenix roebelenii*	PYGMY DATE PALM	5	6	12	GOOD	REMOVE			1
36	*Adonidia merrillii*	DOUBLE CHRISTMAS PALM	6,6	18	9	GOOD	REMOVE			1
37	*Tabebuia ssp.*	PINK TRUMPET TREE	16	35	30	MODERATE	RELOCATE			
38	*Cocos nucifera*	COCONUT PALM	8	25	20	GOOD	RELOCATE			
39	*Cocos nucifera*	COCONUT PALM	8	25	20	GOOD	RELOCATE			
40	*Cocos nucifera*	COCONUT PALM	9	32	15	MODERATE	REMAIN			
41	*Cocos nucifera*	COCONUT PALM	10	40	16	MODERATE	REMAIN			
42	*Cocos nucifera*	COCONUT PALM	12	35	16	MODERATE	REMAIN			
43	*Cocos nucifera*	COCONUT PALM	11	23	15	MODERATE	REMAIN			
44	*Cocos nucifera*	COCONUT PALM	11	35	15	MODERATE	REMAIN			
45	*Cocos nucifera*	COCONUT PALM	9	35	15	MODERATE	REMAIN			
46	*Cocos nucifera*	COCONUT PALM	11	40	15	MODERATE	REMAIN			
47	*Cocos nucifera*	COCONUT PALM	10	40	15	MODERATE	REMAIN			
48	*Cocos nucifera*	COCONUT PALM	9	35	15	MODERATE	REMAIN			
49	*Cocos nucifera*	COCONUT PALM	9	18	15	MODERATE	REMAIN			
50	*Cocos nucifera*	COCONUT PALM	9	18	15	MODERATE	REMAIN			
51**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
52**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
53**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
54**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
55**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
56**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
57**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
58**	*Schefflera actinopylla*	AUSTRALIAN UMBRELLA TREE	CLUSTER	35	12	GOOD	REMOVE	INVASIVE		
59	*Phoenix canariensis*	CANARY DATE PALM	24	18	10	MODERATE	REMOVE			1
60	*Pandanus utilis*	SCREW PINE	9	35	10	MODERATE	REMAIN			
								TOTAL REMOVED:	10	5

TREE DISPOSITION SUMMARY

	TOTAL	REMAIN	REMOVE	RELOCATE
TREES	29	24	1	4
PALMS	40	24	5	11

**TREES TO BE REMOVED ARE INVASIVE.

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LANDSCAPE ARCHITECT:

CLAD
8020 NE 4TH AVE, STUDIO 113
MIAMI, FL 33138
(786) 536-6076
INFO@CLADLANDSCAPE.COM

SEAL:

Carolina Monteiro da Silva

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Date: 2025.02.14 11:40:53-05'00'

CAROLINA MONTEIRO DA SILVA
REGISTERED LANDSCAPE ARCHITECT
LA6667311

DRAWING TITLE:

TREE DISPOSITION SCHEDULE

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1ST SUBMITTAL PHASE 3	02/16/25

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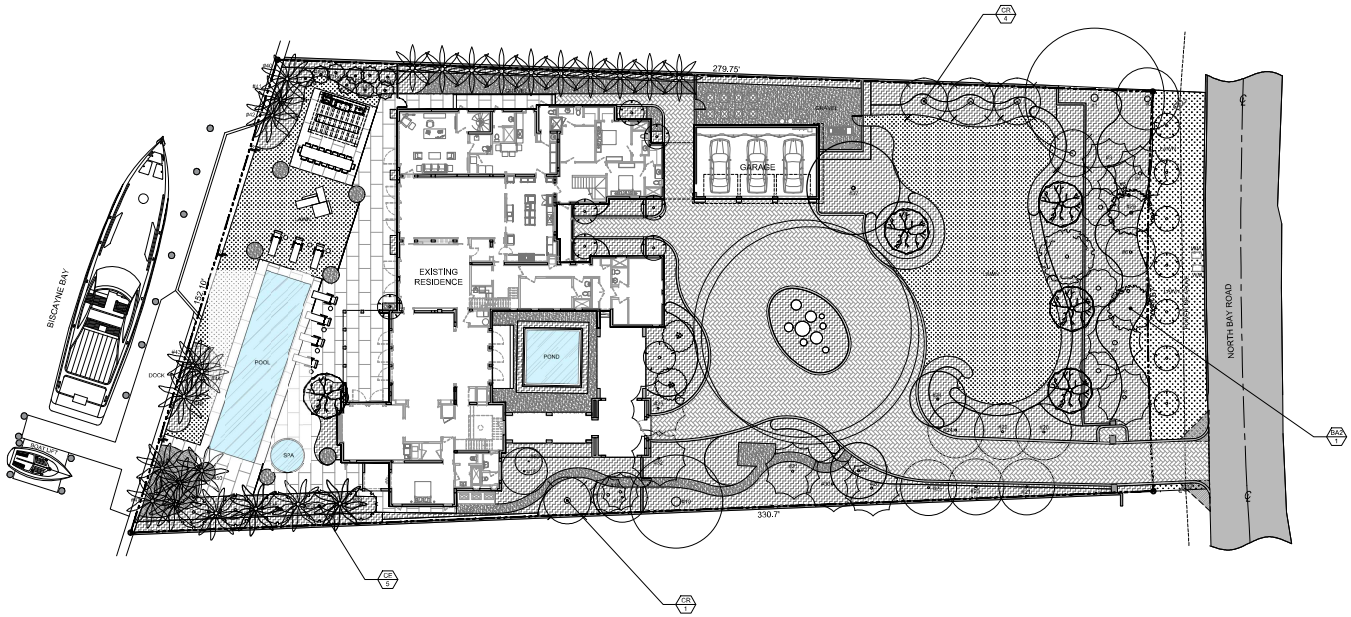

SYMBOL LEGEND:

XX/XY PROPOSED MITIGATION TREES

MITIGATION SUMMARY	
TOTAL DBH (IN) REMOVED	TOTAL PALMS REMOVED
10	5

TREES USED FOR MITIGATION					
SYM	QTY	SCIENTIFIC NAME	COMMON NAME	NATIVE	NOTES
CR	5	*Clusia rosea*	PITCH APPLE TREE	Y	MIN. 4" DBH, 16' HT, 8' SP
BA2	1	*Bulnesia arborea*	VERAWOOD	N	MIN. 4" DBH, 16' HT, 8' SP
CE	5	*Conocarpus erectus*	GREEN BUTTONWOOD	Y	MIN. 4" DBH, 16' HT, 8' SP
TOTAL:	**11**	TREES USED FOR MITIGATION DIVIDED IN 3 SPECIES **10** NATIVES TREES			

10" REMOVAL + REMOVAL OF 5 PALM EQUIVALENT TO:
9 REPLACEMENT TREES (MIN. 2" CALIPER, 8' CANOPY, 12' HT), OR
5 REPLACEMENT TREE (MIN. 4" CALIPER, 8' CANOPY, 16' HT)
5 TREES MUST BE NATIVE (50% OF REQUIRED TREES - MIN. 4" CALIPER, 8' CANOPY, 1·

SPECIES DIVERSITY:
01 - 10: 2 SPECIES

THE CODE (NEW ORDINANCE) IS BEING MET BY USING:
11 "TREES - **91%** NATIVE TREES (MIN. 4" CALIPER, 8' CANOPY, 16' HT)

0 10 20 40

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CLAD
8020 NE 4TH AVE, STUDIO 113
MIAMI, FL 33138
(786) 536-6076
INFO@CLADLANDSCAPE.COM

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DRAWING TITLE:

TREE MITIGATION PLAN AND SCHEDULE

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PROPOSED
GREEN ISLAND FICUS WALL PLEACHED

PROPOSED
MONTGOMERY PALM

PROPOSED
SPECIMEN FICUS TREE

PROPOSED
PITCH APPLE TREE

PROPOSED
HONG KONG TREE

PROPOSED
VERAWOOD TREE

PROPOSED
TEXAS OLIVE TREE

PROPOSED
GREEN BUTTONWOOD TREE

PROPOSED
BRAZILIAN BEAUTY LEAF TREE

PROPOSED
MILKY WAY TREE

PROPOSED
SIMPSON'S STOPPER TREE

PROPOSED
COCONUT PALM

PROPOSED
CRABWOOD HEDGE

PROPOSED
SMALL-LEAF CLUSIA HEDGE

PROPOSED
SMALL-LEAF CLUSIA SHRUB

PROPOSED
TREE FERN ACCENTS

PROPOSED
PURPLE FIRESPIKE SHRUB

PROPOSED
DWARF WILD COFFEE SHRUB

PROPOSED
COONTIE SHRUB

PROPOSED
MARSHHAY GRASS SHRUB

PROPOSED
GREEN ISLAND FICUS TOPIARY SERPENTS

PROPOSED
GREEN ISLAND FICUS TOPIARY DOME

PROPOSED
COTONEASTER TOPIARY DOME

PROPOSED
LILYTURF GROUNDCOVER

PROPOSED
ASIATIC JASMINE GROUNDCOVER

PROPOSED
STAR JASMINE WALL / FENCE PLEACHED

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MIAMI, FL 33138
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INFO@CLADLANDSCAPE.COM

SEAL:

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Date: 2025.02.14 11:42:07-05'00'

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LA6667311

DRAWING TITLE:

ILLUSTRATIVE OVERALL SITE PLAN

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REVISIONS:

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SCALE:
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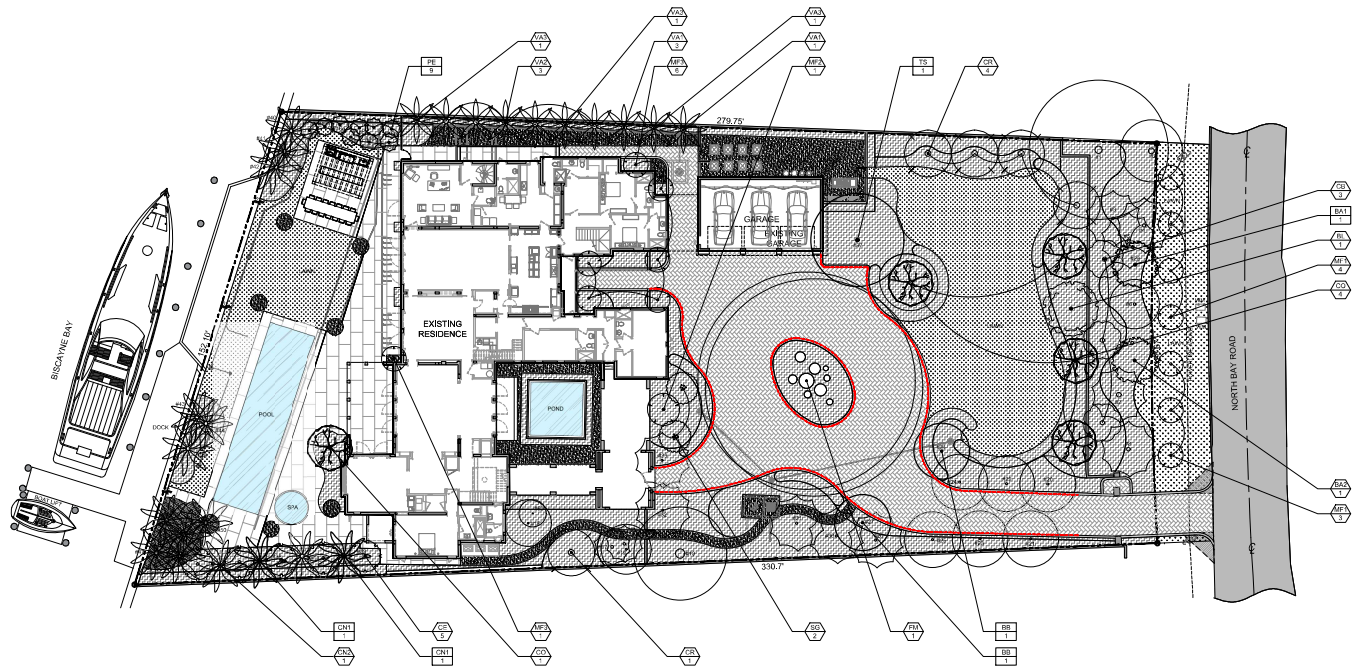
2/14/2025



SYMBOL LEGEND:

XX/XX PROPOSED TREES / PALMS

XX/XX RELOCATED TREES / PALMS

ROOT BARRIER: 450' LF

NOTE: NUMBERED TREES AND PALMS WITHOUT TAGS ARE EXISTING TO REMAIN .

0 10 20 40

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DRAWING TITLE:

CANOPY PLANTING PLAN

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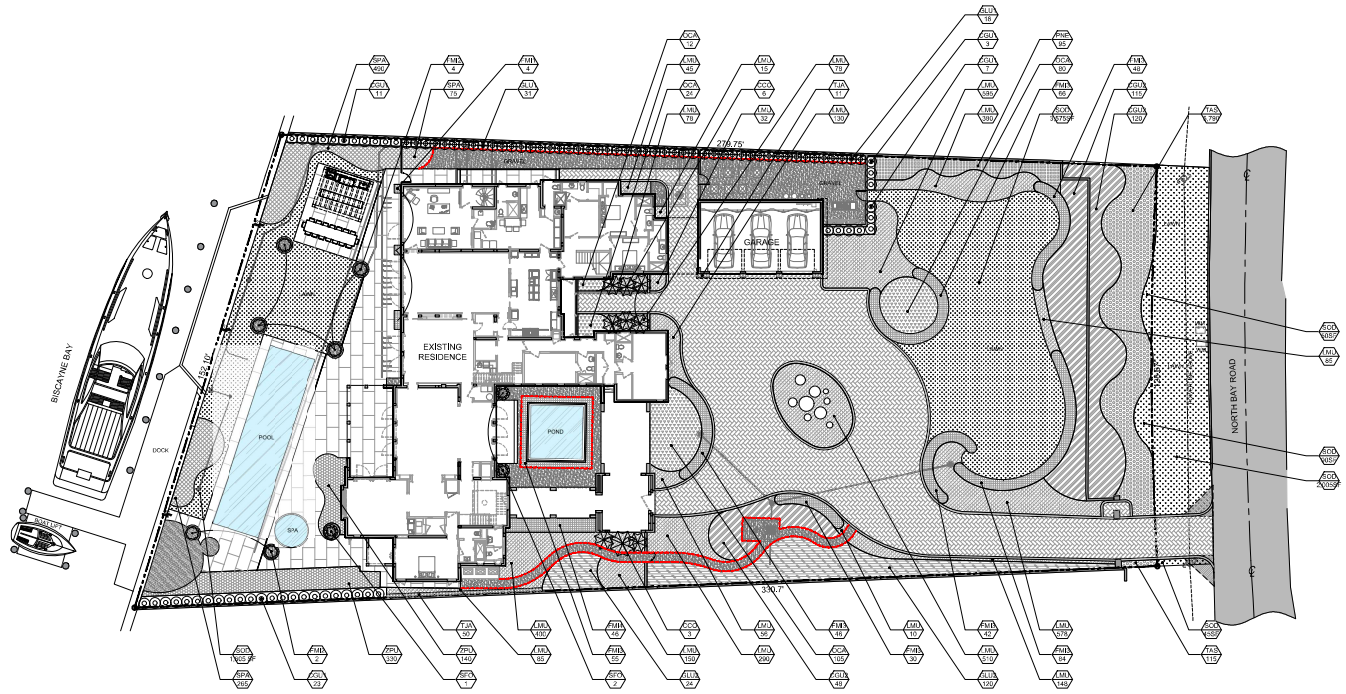

SYMBOL LEGEND:

- XX/XX — PROPOSED SHRUBS & ACCENTS
- METAL EDGING
- BEACH SAND
- GRAVEL

LANDSCAPE MATERIALS

MATERIAL	DESCRIPTION	QTY	LOCATION	SUBMITTAL REQUIREMENT	SOURCE (OR APPROVED EQUAL)	IMAGE
LANDSCAPE EDGING	MODEL: PROLINE SIZE: 1/8" THICKNESS X 4" HT X 8' LENGTH FINISH: BLACK DURAFLEX	455 LF	POND, SIDE YARDS	SAMPLE FOR APPROVAL	PERMALOC 616-399-9600 WWW.PERMALOC.COM	
BEACH SAND	INSTALL DEPTH: 6" SUBGRADE: FILTER FABRIC	345 SF	SOUTH REAR YARD SAND BUNKER	SAMPLE FOR APPROVAL	PER LANDSCAPE CONTRACTOR RECOMMENDATION	
GRAVEL	MODEL: POLYNESIAN MINI PEBBLE SIZE: BY MANUFACTURER INSTALL DEPTH: 2" SUBGRADE: FILTER FABRIC	2,240 SF	POND, SIDE YARDS	SAMPLE FOR APPROVAL	OLIMARSTONE 305-477-7428 WWW.OLIMARSTONE.COM	

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LA6667311

DRAWING TITLE:

UNDERSTORY PLANTING PLAN + LANDSCAPE MATERIALS

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SCALE: 1/16" = 1'-0"

PROJ. N°: 2134

SHEET N°: L-5.1

2/14/2025

LANDSCAPE SCHEDULE - CANOPY SITE				
RELOCATED TREES				
TS	1	*Tabebuia ssp.*	#37	N
		PINK TRUMPET TREE	SEE TREE DISPOSITION SCHEDULE	
BA1	1	*Bulnesia arborea*	#29	N
		VERAWOOD	SEE TREE DISPOSITION SCHEDULE	
BB	2	*Bucida buceras*	#27 AND #34	Y
		SHADY LADY TREE	SEE TREE DISPOSITION SCHEDULE	
RELOCATED PALMS				
CN1	2	*Cocos nucifera*	#38 AND #39	N
		COCONUT PALM	SEE TREE DISPOSITION SCHEDULE	
PE	9	*Ptychosperma elegans*	#16a TO #16i	N
		SOLITAIRE PALM	SEE TREE DISPOSITION SCHEDULE	
PROPOSED STREET TREES				
MF1	7	*Myrciarithes fragrans*	12' HT, 6' SP, MIN 3" DBH, 4' CT	Y
		SIMPSONS STOPPER	MULTI-TRUNK	
PROPOSED TREES				
FM	1	*Ficus microcarpa 'Nitida'*	40' HT, 50' SP, SPECIMEN	N
		INDIAN LAUREL	FG	
CR	5	*Clusia rosea*	16' HT, 8' SP, SPECIMEN	Y
		PITCH APPLE TREE	FG, MULTI TRUNK	
BA2	1	*Bulnesia arborea*	16' HT, 8' SP, SPECIMEN	N
		VERAWOOD	FG	
BL	1	*Bauhinia x blakeana*	16' HT, 8' SP, SPECIMEN	N
		HONG KONG ORCHID	FG	
MF2	1	*Myrciarithes fragrans*	16' HT, 8' SP	Y
		SIMPSONS STOPPER	200G	
CO	5	*Cordia boissieri*	12 - 14' HT, 6' SP, MIN 3" DBH	N
		TEXAS OLIVE TREE	60" BOX	
CE	5	*Conocarpus erectus*	14' HT, 6" DBH, MULTI-TRUNK	Y
		GREEN BUTTONWOOD	200G	
CB	3	*Calophyllum brasiliense*	12 - 14' HT, 6' SP, MIN 3" DBH	N
		BRAZILIAN BEAUTY LEAF	45G	
MF3	7	*Myrciarithes fragrans*	14' HT, 6' SP, MIN 3" DBH	Y
		SIMPSONS STOPPER	MULTI-TRUNK	
SG	2	*Sterculia galeottiana*	12' HT, 6' SP, MIN 3" DBH	N
		MILKY WAY TREE	25G	
PROPOSED PALMS				
CN2	1	*Cocos nucifera*	25' GW	N
		COCONUT PALM	FG	
VA1	4	*Veitchia arecina*	28' OA	N
		MONTGOMERY PALM	FG	
VA2	3	*Veitchia arecina*	22' OA	N
		MONTGOMERY PALM	FG	
VA3	3	*Veitchia arecina*	18' OA	N
		MONTGOMERY PALM	FG	

NOTE: SEE TREE DISPOSITION PLAN FOR DETAILS ON TREES AND PALMS TO REMAIN AND TO RELOCATE.

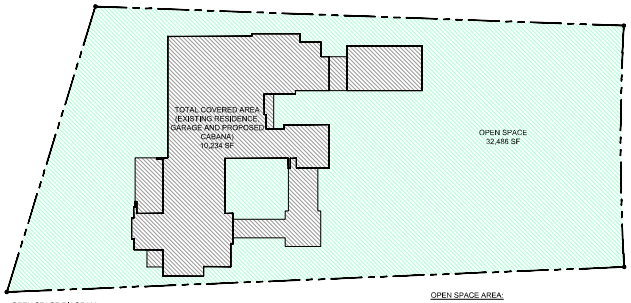
LANDSCAPE SCHEDULE - UNDERSTORY SITE				
PROPOSED LARGE SHRUBS				
GLU1	49	*Gymnanthes lucida*	6'-7' HT, SPACING AS SHOWN	Y
		CRABWOOD	45G	
CGU1	44	*Clusia guttifera*	6'-7' HT, SPACING AS SHOWN	N
		SMALL - LEAF CLUSIA	25G	
PROPOSED SHRUBS				
GLU2	144	*Gymnanthes lucida*	5' HT, 36" O.C	Y
		CRABWOOD	25G	
CGU2	283	*Clusia guttifera*	3'-4' HT, 36" O.C	N
		SMALL - LEAF CLUSIA	15G	
FMI3	371	*Ficus microcarpa*	36" HT, FULL, 20" O.C	N
		GREEN ISLAND FICUS	15G, PRUNED TO SERPENTINE TOPIARY	
FMI4	46	*Ficus microcarpa*	36" HT, FULL, 20" O.C	N
		GREEN ISLAND FICUS	15G, PRUNED TO BLOCK TOPIARY	
OCA	221	*Odontonema callistachyum*	36" HT, 24" O.C	N
		PURPLE FIRESPIKE	7G	
PNE	95	*Psychotria nervosa 'Little Psycho'*	24" HT, 24" O.C	Y
		DWARF WILD COFFEE	7G	
ZPU	470	*Zamia pumila*	18"-24" HT, 15" O.C	Y
		COONTIE	7G	
SPA	830	*Spartina patens*	18"-24" HT, 12" O.C	Y
		MARSHWAY GRASS	1G	
PROPOSED ACCENTS				
CCO	9	*Cyathea cooperi*	4'-6' HT	N
		AUSTRALIAN TREE FERN	FG, STAGGERED HEIGHTS	
SFO	3	*Serissa foetida*	4' X 4', AS SHOWN	N
		COTONEASTER DOME	7G	
FMI1	4	*Ficus microcarpa*	4' HT, ON WOOD SUPPORT	N
		GREEN ISLAND FICUS ESPALIER	15G	
FMI2	6	*Ficus microcarpa*	4' X 4', AS SHOWN	N
		GREEN ISLAND FICUS GLOBES	7G	
PROPOSED GROUNDCOVERS				
LMU	3,665	*Liriope muscari 'Big Blue'*	18" HT, 12" O.C	N
		LILYTURF	3G	
TAS	5,905	*Trachelospermum asiaticum*	8" HT, 8" O.C	N
		ASIATIC JASMINE	1G	
PROPOSED VINES				
TJA	61	*Trachelospermum jasminoides*	3' HT ON TRELLIS	N
		STAR JASMINE	3G	
PROPOSED SOD				
SOD	7,570	*Zoysia ssp. 'Citrazoy'*	STAGGERED AND BUTTED JOINTS	N
		CITRAZOY		

NOTE: SPECIFIED HEIGHT AND SPREAD SUPERCEDE GALLON SIZE WHEN PROCURING PLANTING MATERIAL.

CITY OF MIAMI BEACH
LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS
Zoning District **RS-2** Lot Area **42,720** Acres **0.98**

	REQUIRED/ ALLOWED	PROVIDED
OPEN SPACE		
A. Square feet of required Open Space as indicated on site plan: Lot Area = 42,750 s.f.x 50 % = 21,375 s.f.	21,375	32,486
B. Square feet of parking lot open space required as indicated on site pl Number of parking spaces _____ x 10 s.f. parking space =	N/A	N/A
C. Total square feet of landscaped open space required: A+B=	21,360	32,486
LAWN AREA CALCULATION		
A. Square feet of landscaped open space required	21,360	32,486
B. Maximum lawn area (sod) permitted= 50 % x 21,375 s.f.	10,688	5,520
TREES		
A. Number of trees required per lot or net lot acre= 5 trees = 37 net lot acres =	42	
B. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements = 42 trees - number of existing trees 16 =	26	31
C. % Natives required: Number of trees provided x 50% =	16	18
D. % Low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	16	18
E. Street Trees (maximum average spacing of 20' o.c.) 129 linear feet along street divided by 20'=	7	7
F. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): 129 linear feet along street divided by 20'=	7 7	7
G. Number of total trees required (lot + street) =	49	
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12	588	2,460
B. % Native shrubs required: Number of shrubs provided x 50%=	1,230	1,539
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	59	93
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	47	49
NOTE: Tree species diversity (31 to more)	7	8



OPEN SPACE DIAGRAM

OPEN SPACE AREA:

LOT AREA: 42,720 SF
OPEN SPACE REQUIRED: 21,360 SF (LOT AREA X 50%)
OPEN SPACE PROVIDED: 32,486 SF (79.8%)

CLAD
Landscape Architecture and Design

5980 NORTH BAY ROAD RESIDENCE
MIAMI BEACH, FL

SITE ADDRESS:

5980 NORTH BAY ROAD
MIAMI BEACH, FL 33140

LANDSCAPE ARCHITECT:

CLAD
8020 NE 4TH AVE, STUDIO 113
MIAMI, FL 33138
(786) 536-6076
INFO@CLADLANDSCAPE.COM

SEAL:

Carolina Monteiro da Silva
Digitally signed by Carolina Monteiro da Silva
DN: CN=Carolina Monteiro da Silva, O=Carolina Monteiro da Silva, L=Miami, S=Florida, C=US
Date: 2025.02.14 11:43:15-05'00'

CAROLINA MONTEIRO DA SILVA
REGISTERED LANDSCAPE ARCHITECT
LA6667311

DRAWING TITLE:

PLANTING SCHEDULES + CODE CALCULATIONS

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REVISIONS:

ISSUE	DATE
1ST SUBMITTAL PHASE 3	02/16/25

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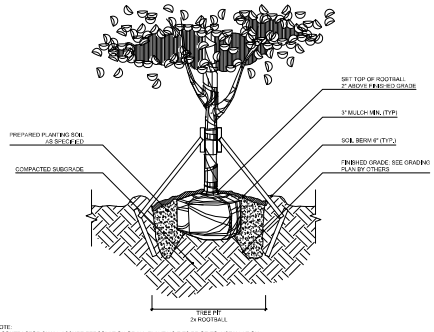
PROJ. Nº: 2134

SHEET Nº: L-5.2

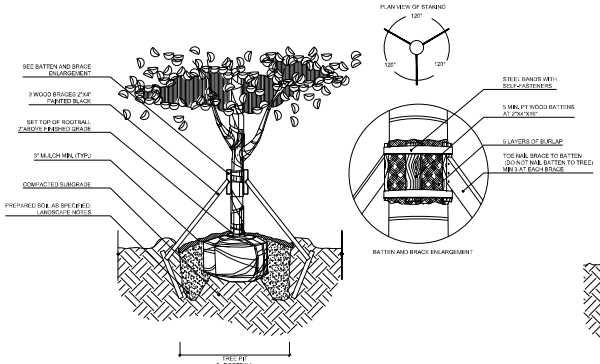
2/14/2025



NOTE:
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. SOIL BERMS ARE TO BE CONSTRUCTED AT RIGHT ANGLES TO THE TREE OR SHRUB ON IN THE POSITION WHICH WILL MOST EFFECTIVELY SERVE THE PURPOSE OF RETAINING WATER AT THE BASE OF THE PLANT.

1 TREE PLANTING DETAIL

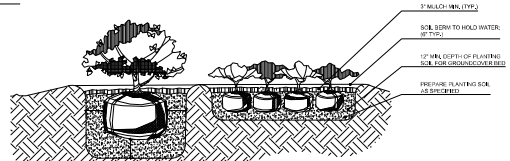
SCALE: N.T.S.



NOTES:
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. STAKING COMPONENTS SHALL BE MANUFACTURED BY ARBORBRACE STAKING SYSTEMS INC. OR APPROVED EQUAL.

2 TREE STAKING DETAIL

SCALE: N.T.S.



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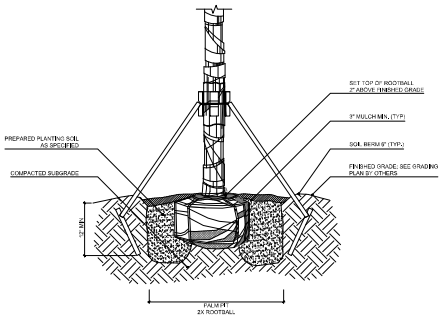
3 SHRUB AND GROUNDCOVER PLANTING DETAIL

SCALE: N.T.S.



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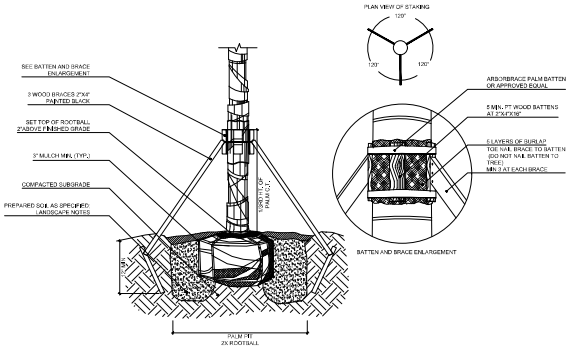
2. SOIL BERMS ARE TO BE CONSTRUCTED AT RIGHT ANGLES TO THE TREE OR SHRUB ON IN THE POSITION WHICH WILL MOST EFFECTIVELY SERVE THE PURPOSE OF RETAINING WATER AT THE BASE OF THE PLANT.

4 PALM PLANTING DETAIL

SCALE: N.T.S.



NOTES:
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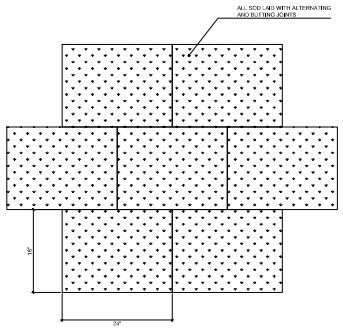
2. STAKING COMPONENTS SHALL BE MANUFACTURED BY ARBORBRACE STAKING SYSTEMS INC. OR APPROVED EQUAL.

5 PALM STAKING DETAIL

SCALE: N.T.S.



NOTE:
PROVIDE 2"-3"OF TOP SOIL FOR FINAL GRADING PRIOR TO LAY DOWN SOD

6 SOD PLANTING DETAIL

SCALE: N.T.S.

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8020 NE 4TH AVE, STUDIO 113
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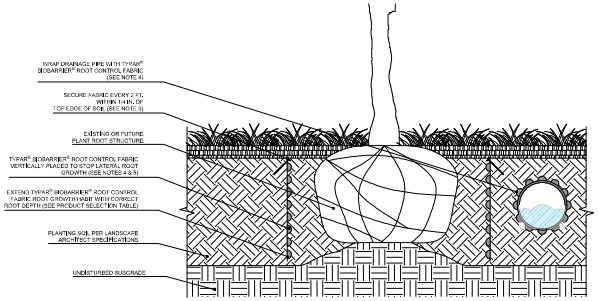

NOTE 1: CONTACT YOUR UTILITY COMPANY PRIOR TO TRENCHING. CONSULT A PROFESSIONAL ARBORIST IF ROOT TRIMMING IS REQUIRED.
NOTE 2: INSTALL & COVER BIOBARRIER® AS SOON AS POSSIBLE (WITHIN 12 HOURS) AFTER OPENING. HIGH TEMPERATURES AND DIRECT SUNLIGHT CAN REDUCE EFFECTIVE PRODUCT LIFE.
NOTE 3: DIG TRENCHES A MINIMUM OF 4 IN. WIDE FOR TYPAR® BIOBARRIER® ROOT CONTROL FABRIC. TRENCHES MUST BE A MINIMUM LENGTH OF MATURE PLANT CANOPY PLUS 10 FT., CENTERED ON THE ROOT SOURCE AND ADJACENT TO PROTECTION AREA.
NOTE 4: INSTALL TYPAR® BIOBARRIER® ROOT CONTROL FABRIC ON THE SIDE OF THE TRENCH OPPOSITE THE ROOT SOURCE.
NOTE 5: INSTALL TYPAR® BIOBARRIER® ROOT CONTROL FABRIC WITH NODULES FACING TOWARD ROOT SOURCE.
NOTE 6: FINING FINS SHOULD PENETRATE FABRIC BETWEEN THE NODULES 14 IN. FROM TOP EDGE OF FABRIC AND AT A 45° ANGLE TO THE TRENCH WALL.

SPECIFIC ADVICE ON THE USE OF BIOBARRIER® CAN BE OBTAINED FROM POLYMER GROUP INC.

1 ROOT CONTROL FABRIC BARRIER
SCALE: N.T.S

TYPAR
Geosynthetics you can trust
BioBarrier®

Root Control Barrier
Strong Roots. Healthy Trees.

Trees can cause unintended damage.
Even with all the bring to today's cityscapes – higher property values, decreased storm water runoff and reduced heat island effects – a poorly planned and maintained tree becomes costly over time, with unrestrained tree root growth creating hazardous cracked sidewalks, foundations, and underground infrastructure. City maintenance departments and homeowners are faced with costly repair projects that can damage trees or lead to their removal.

BIOBARRIER is root control solution that protects landscape installations. Examples include sidewalks, underground pipe, swimming pools, cemeteries, tennis courts, building foundations, and more. BIOBARRIER is available in a variety of roll sizes to fit any project.

BIOBARRIER is Good For Trees
- Stops growth – no girdling
- Permeable to H20 & nutrients
- Flexible – surround/vertical/horizontal
- Non-systemic
- Healthy root system
- Redirected roots send energy to other parts of tree

The Permeable Solution
BIOBARRIER root control system stops damaging root growth and remains permeable to air, water and nutrients to encourage tree health. BIOBARRIER inhibits root growth and minimizes root girdling at the barrier wall, training the plant to sendenergy to uninhibited parts of the root system. Quick and easy to install, the flexible fabric design can fit any project shape or dimension, including vertical, horizontal and surround installations. Composed of a non-systemic herbicide that will not affect the plant or surrounding vegetation, BIOBARRIER provides guaranteed root protection for 15 years.

Fiberweb Minneapolis
1611 County Road B West, #102
Roseville, MN 55113 USA
Tel: +1 651 330 2925
e-mail: geosales@fiberweb.com | www.typargeosynthetics.com.com

A fiberweb BUSINESS

BIOBARRIER Surround System

Tree roots seek out air and moisture in the soil, causing expensive damage to underground infrastructure. BIOBARRIER'S unique geotextile design lends flexibility to surround infrastructure, extending the life of your investment

Removal and disposal of below-ground infrastructure is messy, time-consuming, and costly. In areas with aggressively rooting species, root treatment or complete replacement is required every one to five years. BIOBARRIER is guaranteed to prevent roots from crossing its protective membrane, eliminating long-term costs from clogging or fracturing caused by roots. With a permeable, non-toxic design, BIOBARRIER protects investments without impeding infiltration or drainage which maintains optimal system performance over time.

BIOBARRIER Surround System is used for
- Septic tanks and leach fields
- Perforated drain tile
- Stormwater drainage pipes
- Underground storage tanks
- City sewer and municipal water pipes

Product Selector

Root Control Width	12"	19.5"	24"	29"	39"	58.5"
Building Foundations					●	●
Burial Vaults/Tombstones						●
Containers				●	●	●
Curbs		●	●			
Drain Lines	●	●	●	●	●	●
Earthdams						●
Golf Greens/Tees/Cart paths		●	●	●	●	
Landfills						●
Medians				●	●	
Paths	●	●	●	●		
Planting Beds		●	●	●	●	●
Pots	●	●				
Retaining Walls				●	●	●
Roads		●	●	●		
Roof Gardens					●	●
Septic Tanks/Fields						●
Sidewalks		●	●	●		

Root Control Width (continued)	12"	19.5"	24"	29"	39"	58.5"
Swimming Pools		●	●	●	●	
Tennis Courts		●	●	●	●	
Underground Pipes/Cables	●	●	●	●	●	●
Underground Storage Tanks						●
Utility Substations		●	●	●	●	

BIOBARRIER Root Control is available in 20 foot or 100 foot roll lengths

Weed Control width	29"	39"	58.5"
Fence Rows	●	●	●
Guardrails	●	●	●
Landscaping	●	●	●
Pavers	●	●	●
Street Medians	●	●	●
Tombstones	●	●	
Tree Skirts			●
Utility Substations			●

BIOBARRIER Weed Control is available in 20 foot or 100 foot lengths

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PLANTING DETAILS

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NOT APPLICABLE

PROJ. N°:
2134
SHEET N°:
L-5.4

2/14/2025

LANDSCAPE NOTES

1. SCOPE OF WORK
   i. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR AND INCIDENTAL TO THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
   ii. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS DRAWING SET UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER AND/OR THE LANDSCAPE ARCHITECT.
   iii. PROTECTION OF EXISTING STRUCTURES, ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION 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 WITH COSTS BY CONTRACTOR.
   iv. ALL WORK SHALL BE PERFORMED TO SPECIFICATIONS WRITTEN IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE ANSI A-300, ANSI Z-133, GOVERNMENT, AND LOCAL STANDARDS.

2. TREE PROTECTION
   i. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTE AND PROTECT THE EXISTING TREES TO REMAIN ON SITE.
   ii. PRIOR TO COMMENCEMENT OF ANY WORK, CONTRACTOR SHALL PERFORM ROUTINE MAINTENANCE PER ANSI A-200, ON THE EXISTING TREES TO REMAIN INCLUDING REMOVAL OF DEAD AND DECAYED WOOD, REMOVAL OF ATTACHED BRANCHES AND STRUCTURALLY UNSOUND LIMBS, AND SUBORDINATE BRANCHES WHERE INCLUDED BARK IS PRESENT AND REMOVAL OF BRANCHES TO INCREASE LIGHT AND AIR PENETRATION WITHIN THE CANOPY.
   ii. DO NOT REMOVE MORE THAN 25% OF THE CANOPY WITHIN A TWELVE-MONTH PERIOD.
   iii. ROOT PRUNING SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF THE CONSTRUCTION ACTIVITIES. THE ROOT SYSTEM SHALL NOT BE SUBJECT TO TEARING, RIPPING OR ANY OTHER METHOD EXCEPT CLEAN CUTS AS DESCRIBED IN ANSI A-300.
   iv. PROTECTIVE BARRIERS SHALL BE PLACED AT THE DRIP LINE OF EACH TREE, CLUSTER OF TREES, OR PRESERVATION AREA, AND IN NO CASE LESS THAN TEN (10) FEET FROM THE TRUNK OF ANY PROTECTED TREE, TREE CLUSTER OR PRESERVATION AREA.
   vi. ALL PROTECTIVE BARRIERS SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION OR SITE DEVELOPMENT, INCLUDING TREE REMOVAL, DEMOLITION, OR LAND-CLEARING ACTIVITIES, AND SHALL REMAIN IN PLACE THROUGHOUT ALL PHASES OF CONSTRUCTION.
   vi. ANY TREE WHOSE ROOT SYSTEM IS IMPACTED SHALL BE WATERED ACCORDING TO THE TREE RELOCATION SPECIFICATIONS.
   vii. WHERE CONSTRUCTION ACTIVITY IMPACTS THE EXISTING TREE ROOT SYSTEM, THE CONTRACTOR, UNDER THE GUIDANCE OF AN ASCA ARBORIST, SHALL ONLY ROOT PRUNE IN THE IMPACTED AREAS PER SPECIFICATIONS WRITTEN IN ACCORDANCE WITH ANSI A-300 STANDARDS.
   ix. NATURAL GRADE SHALL BE MAINTAINED ON AREAS SURROUNDED BY PROTECTIVE BARRIERS IN THE EVENT THAT THE NATURAL GRADE OF THE SITE IS CHANGED.
   x. UNDERGROUND UTILITY LINES, INCLUDING, BUT NOT LIMITED TO, IRRIGATION, PLUMBING, ELECTRICAL, OR TELECOMMUNICATION LINES, SHALL BE PLACED OUTSIDE THE AREAS ENCLOSED BY PROTECTIVE BARRIERS
   x. NO VEHICLES, EQUIPMENT, OR STOCKPILING/STORAGE OF MATERIALS SHALL BE PERMITTED WITHIN AREAS SURROUNDED BY PROTECTIVE BARRIERS
   xi. FENCES, WALKWAYS, AND WALLS SHALL BE CONSTRUCTED TO AVOID DISTURBANCE TO ANY PROTECTED TREE.

3. TREE RELOCATION:
   3.a. RELOCATIONS, GENERAL: TRANSPLANTING SHALL CONSIST OF ON-SITE TRANSPLANTING OF EXISTING PLANT MATERIALS FROM PROPOSED CONSTRUCTION AREAS TO PERMANENT POSITIONS AS NOTED ON DRAWINGS.
   i. ALL PLANTING, TRANSPLANTING AND RELOCATING OF TREES OR PALMS SHALL, AT MINIMUM, BE DONE IN COMPLIANCE WITH STANDARDS SET FORTH IN THE MOST RECENTLY PUBLISHED EDITION OF ANSI A-300 STANDARDS.
   ii. VERIFY THE VIGOROUS FEEDER ROOTS PRIOR TO RELOCATION OPERATIONS.
   iii. SOAK TREE ROOT BALLS TO THE FULL DEPTH DAILY FOR SEVEN CONSECUTIVE DAYS PRIOR TO RELOCATING
   iv. LOCATE PERIODICALLY ON WHERE TREES ARE INTENDED TO BE PLANTED FOR VERIFICATION BY THE LANDSCAPE ARCHITECT
   v. NOTIFY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT 24 HRS IN ADVANCE OF EACH RELOCATION TO ALLOW FOR OBSERVATION OF PROCEDURES.
   vi. MATERIALS TO BE TRANSPLANTED SHALL BE ROOT PRUNED A MINIMUM OF SIX MONTHS PRIOR TO RELOCATION.
   vii. CONTRACTOR SHALL MAINTAIN TRANSPLANTED MATERIALS DURING CONSTRUCTION PERIOD BY WATERING, WEEDING, MOWING, SPRAYING, FERTILIZING, PRUNING, AND OTHER HORTICULTURAL PRACTICES.
   viii. OWNER AND/OR LANDSCAPE ARCHITECT SHALL REGULARLY INSPECT THE RELOCATED MATERIALS TO ENSURE THAT ALL HORTICULTURAL PRACTICES ARE BEING ADHERED TO. OWNER SHALL SUBMIT A WRITTEN REPORT TO LANDSCAPE CONTRACTOR NOTIFYING HIM OF ANY DEFICIENCIES FOUND DURING THE MAINTENANCE PERIOD. ANY LOSS OF PLANT MATERIALS DUE TO THE NEGLIGENCE OF THE LANDSCAPE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND SHALL BE REPLACED WITH THE SAME SPECIES OF EQUAL SIZE, AT NO ADDITIONAL COST TO THE OWNER. SAID PLANT MATERIALS SHALL BE REPLACED WITH THE SAME SPECIES OF EQUAL SIZE.
   3B. QUALITY ASSURANCE:
   i. THE SUPPLIERS FOR TRANSPLANTING EXISTING TREES, PALMS AND/ OR SHRUBS SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN THE FIELD OF RELOCATION OF SIMILAR TYPE PLANT MATERIALS AND SHALL BE A MEMBER OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
   ii. CONTRACTOR MUST VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND PLANT MATERIAL
   iii. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED PRIOR TO COMMENCEMENT OF WORK
   iv. CONTRACTOR SHALL VERIFY THAT TREES IN THE FIELD MATCH TREES DESIGNATED IN THE DRAWINGS.
   v. VERIFY PERCOLATION RATES AND SOILS ACCEPTABILITY AT LOCATIONS TO WHICH THE TREES ARE TO BE TRANSPLANTED.
   vi. ALL TREES SHALL BE PRE-TIED IN OR TIED BACK TO PREVENT BREAKAGE AND SCRAPING OF LIMBS IN ORDER TO FACILITATE MACHINERY MOVEMENT
   3C. PREPARATION:
   i. FERTILIZATION AND WATERING
   a. INJECT FERTILIZER MIXTURE WITHIN 24 HRS AFTER CROWN PRUNING, AND AT A MINIMUM OF 14 DAYS PRIOR TO RELOCATION
   b. INJECT THE DEEP ROOT FERTILIZER MIXTURE AT A RATE RECOMMENDED BY THE MANUFACTURER INTO THE PLANT MATERIAL TO BE RELOCATED
   ii. CROWN PRUNING
   a. DO NOT REDUCE CROWN DIMENSIONS. TRIM TREES TO BE RELOCATED BY THINNING THE CROWN ONLY
   b. REMOVE SEED PODS FROM SABAL PALMS, AND ALL BUT THE YOUNGEST FRONDS. TRIM BOOTS TO A CLEAN REGULAR PATTERN.
   c. THERE SHOULD BE NO CANOPY PRUNING OR A MINIMUM OF CANOPY PRUNING BEFORE OR AFTER ROOT PRUNING, ONLY DEAD, DISEASED OR DAMAGED BRANCHES SHALL BE PRUNED AT THIS TIME
   iii. ROOT PRUNING:
   a. PERFORM ROUGH PRUNING AT NO LESS THAN HALF THE DISTANCE BETWEEN THE DRIP LINE AND THE TRUNK.
   b. PROVIDE A MIN OF 10" OF ROOT BALL DIAMETER FOR EVERY 1" OF TRUNK CALIPER MEASURED AT 12" ABOVE GRADE.
   c. TREES WITH A CALIPER MORE THAN 12" SHALL BE ROOT PRUNED BY HAND.
   d. PRIOR TO TRANSPORT, PRUNE ROOT SYSTEMS IN THIRDS, 8 WEEKS APART.
   3D. SUBMITTALS:
   i. SUBMIT A LIST OF EQUIPMENT, PROCEDURES AND LABOR FORCE USED FOR TRANSPLANTING THE WORK.
   ii. ARBORIST MUST PROVIDE TO THE OWNER WEEKLY REPORTS INCLUDING:
   a. SITE ACTIVITIES AND CONDITIONS RELATING TO AN A TREES ON SITE
   b. EVALUATION OF EACH TREE'S CONDITION
   c. RECOMMENDATIONS FOR SURVIVABILITY OF RELOCATED TREES
   iii. SUBMIT MANUFACTURER'S LITERATURE ON WETTING AGENTS, FERTILIZERS, CONDITIONERS AND INJECTION EQUIPMENT INFORMATION.
   3E. WATER AND IRRIGATION:
   i. CONTRACTOR SHALL PROVIDE WATER FROM A LEGAL SOURCE
   ii. CONTRACTOR IS RESPONSIBLE FOR HAND WATERING ALL RELOCATED PLANT MATERIAL
   iii. DAILY WATERING AND MONITORING SHALL BE PERFORMED DURING THE TERM OF THE CONSTRUCTION CONTRACT AND UNTIL FINAL ACCEPTANCE, RATE OF WATER APPLICATION: A MINIMUM OF 20 GALLONS/INCH CALIPER PER APPLICATION.
   iv. WATER SHALL BE FREE OF SUBSTANCES HARMFUL TO PLANT GROWTH, OBJECTIONABLE ODOR OR STAINING AGENTS.
   v. THE WATER SHALL BE CLEAN, FREE OF SOIL, DEBRIS, POISONS, PESTICIDES, CONTAMINANTS, AND ANY OTHER MATERIAL THAT IS HARMFUL OR INHIBITS VIGOROUS PLANT GROWTH
   vi. FOR TREES THAT WILL BE RELOCATED, IRRIGATION MUST BE PRESENT AND APPLIED EFFECTIVELY FOR TWO TO FOUR WEEKS PRIOR TO ROOT PRUNING, THROUGH THE PERIOD OF ROOT PRUNING, AND AFTER ROOT PRUNING AND TRANSPLANTATION UNTIL THE TREE HAS BEEN COMPLETELY RESTABLISHED AT THE NEW PLANTING SPACE.
   vii. A TENSIOMETER SHALL BE USED TO MEASURE AND MONITOR AVAILABLE MOISTURE IN THE GROUND, WEEKLY OBSERVATION SHALL BE NOTED IN ARBORIST'S REPORT.
   3F. TRANSPLANTING OPERATIONS:
   i. THE LANDSCAPE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MINIMIZE SHOCK OF ROOT PRUNING AND TRANSPLANTING IN ACCORDANCE WITH NURSERY TRADE PROCEDURES INCLUDING THE FOLLOWING:
   ii. ROOT PRUNE ONE THIRD OF BALL AT A TIME.
   iii. THIN OUT THE INTERIOR CROWN OF DROOTS, IN A SIMILAR SEQUENCE, TO COMPENSATE FOR ROOT LOSS, LEAVING THE ENTIRE CANOPY INTACT.
   iv. LEAVE MONOCOT LEAVES ALONE, ALLOWING PLANT TO BALANCE ITSELF, PROTECT GROWING POINT AS REQUIRED.
   v. AFTER ROOT PRUNING, BACKFILL WITH GOOD ORGANIC ROOTING MEDIUM, FERTILIZE WITH ORGANIC FERTILIZER TO PROMOTE ROOT GROWTH AND USE ROOT STIMULATOR AND STARTER BY GREEN LIGHT OR APPROVED EQUAL.
   vi. MULCH TO REDUCE WEEDS, DISCOURAGE FOOT TRAFFIC AND ITS COMPACTING EFFECT, CONSERVE MOISTURE AND MINIMIZE TEMPERATURE FLUCTUATION.
   vi. BRACE TRUNK AND LEAVE IN PLACE UNTIL TREES ARE WIND FORM (~1 YEAR).
   a. AT THE TIME OF PLANTING, FILL AIR POCKETS TO KEEP ROOTS, ESPECIALLY FEEDER ROOTS MOIST, ALIVE AND HEALTHY. USE SOIL NEEDLE FOR WATERING NEW TRANSPLANT, DIRECT FINE SPRAY AT FOLIAGE TO HELP HARDEN OFF NEW LEAVES.
   3G. EQUIPMENT:
   i. ALL TRANSPLANTING MACHINES WILL HAVE CLEAN, TIGHT FITTING AND SHARP BLADES.
   ii. TREES TO BE RELOCATED IN EXCESS OF 12" CALIPER SHALL BE RELOCATED VIA BOX OR OTHER APPROVED METHOD.
   3H. DIGGING AND MOVING
   i. DIG PITS TO A MINIMUM OF 42" DEEP WITH VERTICAL SIDES AND BOTTOMS.
   ii. HANDLE TREES TO AVOID DAMAGE TO BARK AND LIMBS. ATTACH SUPPORT STRAPS, CABLES, OR CHAIN AT MULTIPLE POINTS FOR WEIGHT DISTRIBUTION.
   iii. DO NOT FORCE TREE FROM GROUND PRIOR TO UNDERCUTTING ROOT BALLS, DETERMINE FINAL BALL DEPTH UPON ASSESSING CONDITIONS AT TIME OF TRENCHING. NOTIFY LANDSCAPE ARCHITECT IF BALL DEPTH VARIES FOR SPECIFIED DEPTH.
   iv. PLACE TREES IN HEAVY GRADE BASKETS LINED WITH TWO LAYERS OF BURLAP FOR RELOCATION PROCEDURES.
   v. PLANT TOP OF ROOT BALL 3" ABOVE FINISH GRADE.
   vi. ALL TRANSPLANTED TREES SHALL BE WATERED IN, SANDED, MULCHED, AND UNTIED ON THE SAME DAY.
   vii. STAKE OR BRACE RELOCATED TREES/ PALMS AS SHOWN ON THE DRAWINGS.
   viii. SUPPORT TREES WITH MACHINERY UNTIL BRACING IS COMPLETE.
   3I. POST RELOCATION:
   i. THE CONTRACTOR SHALL MAINTAIN ALL TRANSPLANTED MATERIAL IN A HEALTHY CONDITION UNTIL FINAL ACCEPTANCE
   ii. THE CONTRACTOR SHALL PREPARE ALL OPERATIONS NECESSARY TO ENSURE THAT PLANTS ARE HEALTHY, VIGOROUS AND UNDAMAGED.
   3J. GUARANTEE:
   i. DEATH OF ANY RELOCATED PLANT MATERIAL SHALL BE REPLACED WITH THE SAME SIZE AND SPECIES AND APPROVED BY THE LANDSCAPE ARCHITECT. DETERMINATION OF SURVIVABILITY SHALL BE MADE AT THE END OF THE WARRANTEE PERIOD
   ii. RELOCATED PLANT MATERIAL INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED IN WRITING FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.

4. MATERIALS
   4A. SUBMITTALS:
   i. GENERAL SAMPLES OF MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER OR LANDSCAPE ARCHITECT, AT LEAST FOURTEEN (14) WORKING DAYS PRIOR TO ITS INTENDED DELIVERY TO THE SITE, UPON APPROVAL OF SUBMITTALS, DELIVERY OF MATERIALS MAY BEGIN.
   a. MULCH - ONE (1) CUBIC FOOT.
   b. ROOT STIMULATOR - ONE (1) CONTAINER
   c. FERTILIZER - ONE (1) CONTAINER.
   d. TOPSOIL - ONE (1) CUBIC YARD
   e. PLANTS - ONE (1) REPRESENTATIVE PHOTOGRAPH OF EACH SHRUB AND GROUNDCOVER FOR APPROVAL PRIOR TO TAGGING.
   f. TREES - ONE PHOTOGRAPH W/ CLEARLY LEGIBLE MEASURING ROD OF ACTUAL CONTRACTOR PRE-TAGGED TREES, UPON APPROVAL OF TREE SUBMITTAL, LANDSCAPE CONTRACTOR SHALL PROVIDE AT LEAST ONE WEEK NOTICE TO SCHEDULE TREE TAGGING.
   g. PLANTING MIX - ONE (1) CUBIC YARD
   4B. MULCH
   i. MULCH TYPE: PINE BARK MINI NUGGETS
   ii. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION.
   iii. ALL TREES, SHRUBS, AND GROUNDCOVER BEDS SHALL RECEIVE A MINIMUM OF 2" OF MULCH IMMEDIATELY AFTER PLANTING.
   iv. MULCH SHALL BE MAINTAINED BELOW THE ELEVATION OF ADJACENT FINISHED SURFACES AND SWEPT CLEAR OF PATHS.
   4C. FERTILIZER:
   i. COMMERCIAL FERTILIZER: COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA. IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THE FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS. EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.
   ii. FERTILIZER SHALL BE ORGANIC IN MATERIAL CONTAINING NITROGEN, PHOSPHORIC ACID AND POTASH IN EQUAL PERCENTAGES OF PLANT FOOD BY WEIGHT, IN THE FOLLOWING FORM:
   iii. CONTAINERIZED MATERIAL (I.E. SHRUBS, VINES, GROUND COVERS) SHALL RECEIVE A GRANULAR SUCH AS "TRI-NITE" OR APPROVED EQUAL.
   v. SPECIMENS SHALL RECEIVE TIME-RELEASED FERTILIZER, SUCH AS OSMOCOTE, OR APPROVED EQUAL.
   v. THIS INSTRUCTION SHALL SUPERSEDE OTHER NOTES REGARDING FERTILIZERS ON THE DRAWINGS OR DETAILS.
   4D. PLANTS
   i. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS AND CITED HEREIN. ALL SIZES SHOWN FOR PLANT MATERIAL ON THE PLAN ARE TO BE CONSIDERED AS MINIMUMS.
   ii. ALL PLANTS SHALL BE FLORIDA GRADE NO.1 OR BETTER, GRADED IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, PUBLISHED BY THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE. TREES AND SHRUBS SHALL HAVE PRONOUNCED SYMMETRY OF FOLIAR CROWN. PLANTS JUDGED TO BE NOT IN ACCORDANCE WITH THESE STANDARDS WILL BE REJECTED AND SHALL BE IMMEDIATELY REMOVED FROM THE SITE OF THE WORK AND REPLACED AT THE CONTRACTOR'S EXPENSE.
   iii. ALL QUANTITIES INDICATED ON THE PLANT LIST ARE INTENDED AS A GUIDE FOR THE BIDDERS AND DOES NOT RELIEVE THE BIDDER OF THEIR RESPONSIBILITY TO DO A COMPREHENSIVE PLANT TAKE OFF. SHOULD A DISCREPANCY OCCUR BETWEEN THE BIDDERS TAKE OFF AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT IS TO BE NOTIFIED FOR CLARIFICATION PRIOR TO FINAL BID ACCEPTANCE.
   4E. PLANTING MIX:
   i. PLANTING MIX SHALL BE 70/30 MIX, 70% CRUSHED OOLITIC LIMESTONE OR SAND, AND 30% ORGANIC MATERIAL (COMPOSED OF 15% DECOMPOSED WOOD CHIPS AND 15% EVERGLADES PEAT).
   ii. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT PLANTING MIX UTILIZED THAT FAILS TO MEET THE SPECIFICATION AT ANY TIME DURING EXECUTION OF WORK.
   4F. SOD
   i. SELECTION:
   a. GRASS SPECIES: ZOYSIA SPP.
   b. AMERICAN SOD PRODUCERS ASSOCIATION GRADE: NURSERY GROWN OR APPROVED. FIELD GROWN SOD IS NOT ACCEPTABLE.
   c. FURNISHED IN PADS: 18" X 24" X 1" THICK EXCLUDING TOP GROWTH AND THATCH.
   d. NOT STRETCHED, BROKEN OR TORN.
   e. UNIFORMLY MOWED HEIGHT WHEN HARVESTED.
   f. INSPECTED AND FOUND FREE OF DISEASES, NEMATODES, PESTS, AND PEST LARVAE.
   g. UNIFORM IN COLOR, LEAF TEXTURE, AND DENSITY.
   h. DO NOT DELIVER MORE SOD THAN CAN BE INSTALLED WITHIN 24 HOURS.
   i. BEGIN INSTALLATION OF SOD AFTER COMPLETION OF PRECEDING WORK (I.E. EARTH WORK, UNDERGROUND SPRINKLER SYSTEM, SOIL PREPARATION, INSTALLATION OF TREES, SHRUBS AND GROUND COVERS, ETC.)
   ii. INSTALLATION
   a. TRANSPLANT SOD WITHIN 48 HOURS AFTER HARVESTING
   b. CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS HEREIN
   c. BEGIN SODDING AT BOTTOM OF SLOPES
   d. LAY FIRST ROW OF SOD IN STRAIGHT LINE WITH LONG DIMENSION OF PADS PARALLEL TO SLOPE CONTOURS
   e. LAY ALL ROWS WITH ALTERNATING AND ABUTTING JOINTS.
   f. DO NOT STRETCH OR OVERLAP ROWS
   g. ROLL SOD. EXCEPT PEDGED AREAS, WITH ROLLER WEIGHING NO MORE THAN 100LBS PER FOOT OF ROLLER WIDTH.
   h. DURING ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT OF ROLLING SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE RE-GRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH THAT IS UP TO THE REQUIRED GRADE.
   iii. SOIL PREPARATION:
   a. PREPARE LOOSE BED FOUR (4) INCHES DEEP, APPLY FERTILIZER AT RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM, UTILIZING APPROVED MECHANICAL SPREADERS.
   b. HIR FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE (3) INCHES. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED.
   iv. SOIL WATERING:
   a. WATER SOD AND SOIL TO DEPTH OF 6" WITHIN FOUR HOURS AFTER ROLLING.
   b. KEEP SOD MOIST DURING FIRST WEEK AFTER PLANTING.
   c. AFTER FIRST WEEK, SUPPLEMENT RAINFALL TO PROVIDE A TOTAL OF 2" PER DAY.
   d. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WATER ALL PLANT MATERIAL.

5. TREES:
   i. TREES AND PALMS SHALL BE FRESHLY DUG, BALLED AND BURLAPPED. ALL PLANT MATERIAL SHALL BE FREE OF BROKEN OR DAMAGED ROOT BALLS, OR ROOT BOUND CONTAINER PLANT MATERIALS SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM PLANT DISEASE INSECT PESTS OR THEIR EGGS, AND SHALL HAVE HEALTHY, NORMAL ROOT SYSTEMS.
   ii. TREES ARE NOTED ON PLANS AND HEREIN AS APPROVED BY THE LANDSCAPE ARCHITECT.
   iii. LANDSCAPE ARCHITECT SHALL TAG ALL TREES. TAGS SHALL NOT BE REMOVED. ABSENCE OF TAG AT DELIVERY TO PROJECT SITE WILL BE GROUNDS FOR REJECTION OF THE TREE.
   iv. SUBSTITUTIONS IN PLANT SPECIES OR SIZES SHALL BE MADE ONLY AFTER WRITTEN AUTHORIZATION BY THE LANDSCAPE ARCHITECT.
   v. THE HEIGHT AND OR WIDTH OF TREES SHALL BE MEASURED FROM THE TOP OF THE ROOT BALL TO THE TOP OF CANOPY. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH.
   vi. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER AND/OR LANDSCAPE ARCHITECT.
   vi. 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.
   vi. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER AND/OR LANDSCAPE ARCHITECT. 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 BALLS OR ROOTS, LATENT DEFECTS ON INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.
   ix. CALIPER MEASUREMENT (DBH, 54" ABOVE GROWN OF ROOT BALL), HEIGHT AND SPREAD MEASUREMENTS. ROOT BALL DIMENSIONS, AND CONTAINER SIZE WHEN APPLICABLE, SHALL CONFORM TO THE APPLICABLE STANDARDS ESTABLISHED WITHIN REFERENCE DOCUMENTS CITED HEREIN, AND THE REQUIREMENTS FOR THIS PROJECT.
   x. NURSERY SUPPORT POLES SHALL BE REMOVED AT THE NURSERY PRIOR TO DELIVERY. TREES DELIVERED WITH NURSERY SUPPORT POLES WILL NOT BE ACCEPTED AND THEREFORE REJECTED WITH THE EXCEPTION OF *Clusia rosea* AND *Conocarpus erectus var. sericeus* TREE SPECIES.
   ix.

6. EXECUTION
   6A. INSPECTION:
   i. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT IN WRITING.
   ii. DO NOT PROCEED WITH INSTALLATION OF MATERIALS OR PLANTS IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED TO THE SATISFACTION OF THE OWNER AND/OR LANDSCAPE ARCHITECT.
   6B. PREPARATION:
   i. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO; ELECTRICAL, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORM WATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.
   ii. STAKE OR MARK WITH PAINT THE PROPOSED LOCATION OF ALL TREES AND PALMS TO BE PLANTED.
   iii. EXCAVATE PLANT BEDS.
   iv. ENSURE ALL PLANTING AREAS ARE FREELY DRAINING.
   v. PROVIDE PLANT MATERIALS, FERTILIZER, SOIL, PLANTING MIX, AND INCIDENTAL MATERIALS AS SPECIFIED.
   v. SET PLANTS, BACKFILL, AND GUY OR BRACE PLANTS AS REQUIRED.
   vi. COMPLETE INCIDENTAL WORK RELATED TO PLANTING OPERATIONS, AND AS SPECIFIED.
   6C. APPLICATION:
   i. FINISH SUBGRADE: UPON ACCEPTANCE OF ROUGH GRADING ELEVATIONS, ESTABLISH FINE SUB-GRADE WITH SMOOTH AND EVEN FINISH, REMOVE ROCKS EXCEEDING ONE (1) INCH DIAMETER, STICKS, DEBRIS, DELETERIOUS MATERIAL. GRASS AND SOIL CLODS, AND VEGETATION.
   6D. EXCAVATION:
   i. EXCAVATIONS IDENTIFIED AS HAVING POTENTIAL UTILITY OR SERVICE LINE CONFLICTS SHALL BE EXCAVATED WITH HAND TOOLS TO DETERMINE THE LOCATION OF. AND AVOID DAMAGE TO, SUCH UTILITIES.
   ii. EXCAVATE TREE AND PALM PLANTING PITS A MINIMUM OF 24" GREATER IN DIAMETER THAN THE ROOT BALL, AND MINIMUM OF 12" DEEPER THAN VERTICAL DEPTH OF THE ROOT BALL. TEST SOIL FOR QUALITY OF PERCOLATION. IF DRAINAGE IS INADEQUATE, CREATE UNDERGROUND SEEPAGE/DRAINAGE. NOTIFY LANDSCAPE ARCHITECT FOR APPROVAL. BUDGET SHOULD ALLOCATE AN ALLOWANCE TO COVER THIS POSSIBILITY AND SHOULD BE PART OF THE ORIGINAL BID.
   iii. BARRICADE OR MARK EXCAVATIONS TO PREVENT HAZARDS TO MECHANICAL EQUIPMENT, VEHICLES, AND PEDESTRIANS.
   6E. PLANTING:
   i. SET TREES IN VERTICAL POSITION WITH THE TOP OF THE ROOT BALL FLUSH WITH THE ADJACENT, FINISH GRADE, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE.
   ii. SET PLANT IN VERTICAL POSITION IN CENTER OF PLANTING PIT AND PLACE SPECIFIED PLANTING MIX UNDER AND AROUND THE ROOT BALL. FOR BURLAPPED ROOT BALLS, CUT TOP 1/3 OF BURLAP AWAY FROM ROOT BALL, AND TURN DOWN INTO THE SIDE OF THE PLANTING PIT, BEFORE PLACING PLANTING MIX AROUND THE ROOT BALL.
   iii. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.
   iv. PRUNE TREES, REMOVING NO MORE THAN 1/3 OF TWIGS AND BRANCHES, WHILE MAINTAINING THE UNIFORM CHARACTER AND SHAPE OF THE TREE. REMOVE ALL DEAD, DISEASED, RUBBING, AND DYING BRANCHES. ALL PLANT MATERIAL SHALL MEET SPECIFICATIONS AFTER PRUNING.
   v. EARTH SHALL BE BANKED AT EDGE OF EACH PLANTING PIT TO FORM A WATERING SAUCER APPROXIMATELY 6" IN DEPTH, FLUSH PLANTING SOIL INTO PLACE WITH SLOW HOSE STREAM UNTIL AIR POCKETS ARE ELIMINATED AROUND ROOT BALL, AND PIT IS FILLED WITH PLANTING MIX TO TOP OF ROOT BALL.
   v. PLACE MULCH IN LOOSE MEASURE 2" MIN. LAYER WITHIN EACH WATERING SAUCER.
   vi. IF PLANTING IS PERFORMED AFTER SOD PLACEMENT, PROPER PROTECTION SHALL BE PROVIDED AND DAMAGE RESULTING FROM PLANTING OPERATIONS SHALL BE REPAIRED PROMPTLY.
   vi. TREE GUYING: FOR MATERIALS TO 12' IN HEIGHT, A MINIMUM OF FOUR WOVEN ANCHOR STRAP LINES EACH AT NINETY DEGREES FROM AND CONNECTED TO TREE TRUNK AND ANCHORED BELOW GRADE WITH PRESSURE TREATED STAKES. SECURE TREE AGAINST MOVEMENT IN WIND.
   ix. TREE BRACING: FOR MATERIALS GREATER THAN 12' IN HEIGHT. A MINIMUM OF THREE 2X4 APPHEARANCE GRADE BRACES, SET AT 60 DEGREES TO THE GROUND PLANE, EQUIDISTANT AROUND THE TRUNK OF THE TREE, AND SECURED INTO THE GROUND PLANE WITH ONE, 12' #4 REBAR OR ½" GALVANIZED PIPE PASSING THROUGH EACH SUCH 2X4 BRACE, DRIVEN INTO THE GROUND, AND SET FLUSH WITH THE TOP OF THE BRACE. SECURE EACH ANGLED BRACE TO ONE 12" LONG 2X4 VERTICAL BLOCK OVER FOUR LAYERS OF BURLAP. SECURE BLOCKS WITH TWO METAL OR PLASTIC STRAPS, ONE 3" FROM THE TOP AND ONE 3" FROM THE BOTTOM OF EACH BLOCK. NAIL BRACE TO BLOCK WITH FOUR 16D NAILS. SEE PLANTING DETAILS SHEET FOR ADDITIONAL INFORMATION AND BRACING DETAILS. BRACES TO BE PAINTED WITH BENJAMIN MOORE 2119-10 UNIVERSAL BLACK, FLAT/MATTE EXTERIOR.
   x. THERE WILL BE NO PLANT MATERIAL PLANTED INTO ROOT BALLS OF TREES AND PALMS.
   x. SHRUBS AND GROUND COVERS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWING AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE OF ALL DEBRIS, TILL INTO TOP 4" THE PLANTING SOIL MIX AS SPECIFIED, THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
   6F. WATER AND IRRIGATION
   i. CONTRACTOR SHALL PROVIDE WATER FROM A LEGAL SOURCE.
   ii. DAILY WATERING AND MONITORING SHALL BE PERFORMED DURING THE TERM OF THE CONSTRUCTION CONTRACT AND UNTIL FINAL ACCEPTANCE.
   iii. WATER SHALL BE FREE OF SUBSTANCES HARMF