



landscape architects

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FB GARAGE & BALLROOM EXPANSION
441 COLLINS AVE., MIAMI BEACH, FLORIDA GROUND LEVEL PLANTING PLAN

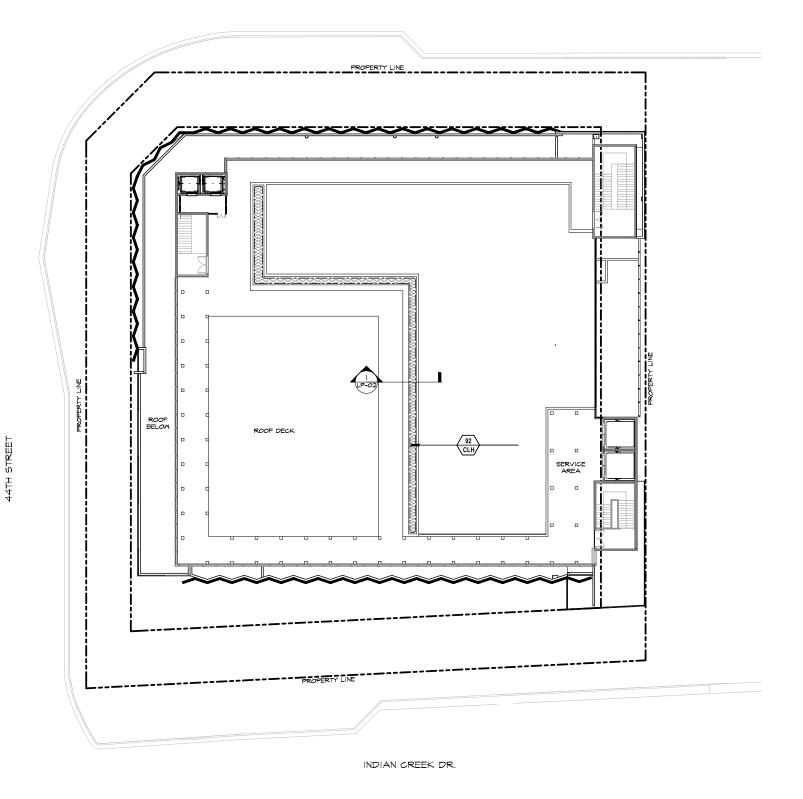
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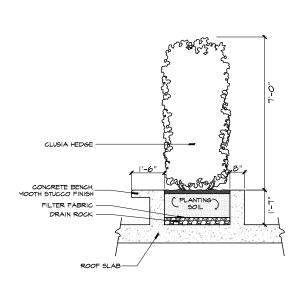
MARCH 20, 2020
DATE
J.R.
DRAWN BY:
M.J.

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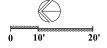
APPROVED BY:

COLLINS AVE.





PLANTER SECTION
N.T.S





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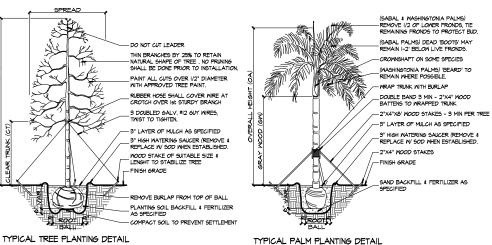
XPANSION
41 COLLINS AVE., MIAMI BEACH, FLORID
OOF DECK PLANTING PLAN

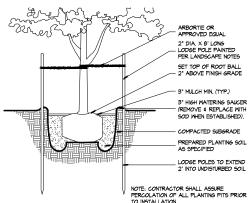


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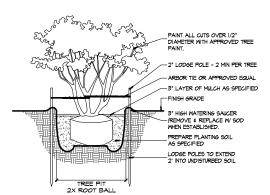
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## SMALL TREE PLANTING DETAIL



## MULTI TRUNK TREE PLANTING DETAIL

## MISCELLANEOUS

- Sod to be St. Augustine sod.
- Planting soil -1/2 cu. yd. per tree and 4" depth at all hedges and mass planting beds.
- Sand Palms to be planted in clean sand; ½ cu. yd. per palm.
- Mulch 2" depth of shredded mulch or pine straw at all hedges and mass planting beds.

## **GENERAL NOTES**

- All sod to be Stenota phrum secundatum 'Flor-tam', St. Augustine solid sod.
- Any pervious area to remain that is disturbed by construction and not indicated on landscape plans to have shrubs or groundcovers shall be sodded.
- All plant materials shall conform to the standards for Florida No. 1 or better as given in "Grades and Standards for Nursery Plants". State of Florida Department of Agriculture, Tallahassee, or thereto. Refer to the latest edition
- All trees shall be properly guyed and staked at the time of planting to ensure proper establishment.
- The planting soil for all planting areas shall be composed of a minimum of 30% muck or horticulturally acceptable organic  $material. \ The \ minimum \ soil \ depth \ shall \ be four inches \ in \ all \ hedges \ and \ mass \ planting \ beds \ and \ \% \ cu.\ yd.\ per \ tree. \ Palms$ to be planted in clean sand.
- Two inches minimum of shredded mulch or pine straw shall be installed around each tree and palm and
- throughout mass planting beds, the use of Cypress mulch is strongly discourage. Irrigation system to provide 100% coverage to landscaped areas with 50% overlap. Irrigation to be an automatic system with
- For trees designated for preservation, protective barriers shall be in place prior to the start of any construction and shall remain in place until development is completed and the Planning and Zoning Division has authorized their removal.
- The relocation of any tree and necessary tree prunning must conform to ANSI A-300 Standards.
- In case of discrepancies, planting plan takes precedence over plant list.
- Landscape contractor is responsible for his own quantity take-offs.

### CITY OF MIAMI BEACH

D. Street Trees (maximum average spacing of 20' o.c.)

(maximum average spacing of 20' o.c.):

LARGE SHRUBS OR SMALL TREES

small trees provided x 50%=

SHRUBS

565 linear feet along street divided by 20'=

\_\_linear feet along street divided by 20'=

A. Number of shrubs required: Sum of lot and street trees required x 12=

A Number of large shrubs or small trees required: Number of required shrubs

\*SEE CODE COMPLIANCE TABLE FOR QUANTITIES BREAKDOWN

B. % Native large shrubs or small trees required: Number of large shrubs or

B. % Native shrubs required: Number of shrubs provided x 50%=

E. Street tree species allowed directly beneath power lines:

|    | LANDSCAPE LEGEND  |            |          |
|----|---|------------|----------|
|    | INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS                   |            |          |
|    | Zoning District RM-2 Lot Area 44,712 Acre                                 | s <u> </u> |          |
|    |   | REQUIRED/  |          |
|    | OPEN SPACE  | ALLOWED    | PROVIDED |
| Ą. | Square feet of required Open Space as indicated on site plan:             |            |          |
|    | Lot Area = s.f.x % = s.f.   | N/A        | N/A      |
| 3. | Square feet of parking lot open space required as indicated on site plan: |            |          |
|    | Number of parking spaces x 10 s.f. parking space =                        | N/A        | N/A      |
| 2  | Total square feet of landscaped open space required: A+B=                 | N/A        | N/A      |
|    | LAWN AREA CALCULATION   |            |          |
|    |   |            |          |
|    | Square feet of landscaped open space required                             | N/A        | N/A      |
| 3, | Maximum lawn area (sod) permitted= % x s.f.                               | N/A        | N/A      |
|    | TATES   |            |          |
|    | TREES   |            |          |
| Į. | Number of trees required per lot or net lot acre, less existing number of |            |          |
|    | trees meeting minimum requirements=                                       |            |          |
|    | trees xI.O2 net lot acres - number of existing trees=                     | 29         | 29*      |
| 3. | % Natives required: Number of trees provided x 30% =                      | 9          | 15       |
| 2  | % Low maintenance / drought and salt tolerant required:                   |            |          |
|    | Number of trees provided x 50%=   | 15         | 15       |
|    |   |            |          |

29 29\*

\_\_\_\_N/A\_\_\_\_ N/A\_\_\_

696 727\* 363 727

80 160

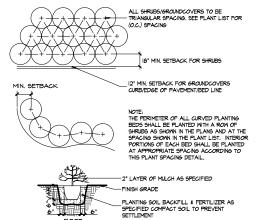
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DIANTLIST

TREES AND PALMS



# TYPICAL SHRUB PLANTING DETAIL

| CODE COMPLIANCE TABLE                                   |          |          |  |  |  |
|---|----------|----------|--|--|--|
| TREES:  | TREES:   |          |  |  |  |
| STREET TREES (SECTION 126-6)                            |          |          |  |  |  |
| 20' O.C. (565 L.F/20 = 29 TREES                         | REQUIRED | PROVIDED |  |  |  |
| BULNESIA ARBOREA  |          | 5        |  |  |  |
| BURSERA SIMARUBA  |          | 2        |  |  |  |
| CONOCARPUS ERECTUS                                      |          | 7        |  |  |  |
| CONOCARPUS E. SERICEUS                                  |          | 4        |  |  |  |
| CLUSIA ROSEA  |          | 4        |  |  |  |
| QUERCUS VIRGINIANA                                      |          | 7        |  |  |  |
| TOTAL   | 29       | 29       |  |  |  |
| REQUIRED TREES PER ACRE OF NET LOT AREA (SECTION 126-6) |          |          |  |  |  |
| ZONING DISTRICT RM-2: 1.02 ACRES * 28 = 29 TREES        | REQUIRED | PROVIDED |  |  |  |
| FILICIUM DECIPIENS                                      |          | 3        |  |  |  |
| ELAECARPUS DECIPIENS                                    |          | 2        |  |  |  |
| LIGUSTRUM JAPONICUM                                     | -        | 3        |  |  |  |
| QUERCUS VIRGINIANA                                      | -        | 8        |  |  |  |
| PITYCHOSPERMA ELEGANS                                   | ù.       | 8*       |  |  |  |
| PTYCHOSPERMA MACARTHURII                                | ·        | 2*       |  |  |  |
| SABAL PALMETTO  | -        | 21*      |  |  |  |
| VEITCHIA MONTGOMERYANA                                  | -        | 8*       |  |  |  |
| TOTAL   | 29       | 29*      |  |  |  |
|   |          |          |  |  |  |

\*39 PALMS ARE BEING COUNTED AS 13 TREES

| SHRUBS:  |            |                   |  |  |  |  |
|--|------------|-------------------|--|--|--|--|
| AT LEAST 12 SHRUBS SHALL BE PLANTED FOR EACH REQUIRED TREE (SECTION 126-6) |            |                   |  |  |  |  |
| REQUIRED TREES: 58   | REQUIRED   | PROVIDED          |  |  |  |  |
|  | 696 Shrubs | 727 Native Shrubs |  |  |  |  |
|  |            |                   |  |  |  |  |

| KEY              | AND PALMS  QTY. TOTAL | LP-1       | LP-2 | BOTANICAL/COMMON NAME  | HEIGHT         | SPREAD         | CLEARTRK               | SPA.               | REMARKS                         |
|------------------|-----------------------|------------|------|--|----------------|----------------|------------------------|--------------------|---------------------------------|
| BA               | 5                     | 5<br>5     | -    | Bul nesí a arborea   | 14-16'         | 7-8'           | VELAK I KIK            | GTM.               | Full Canopy                     |
| BS^              | 2                     | 2          |      | Verawood<br>Bursera simaruba   | 14-16'         | 10-12'         | 6'                     |                    | Full Canopy                     |
| CE^              | 7                     | 7          |      | Gumbo Limbo Conocarpus erectus   | 12-14'         | 5-6'           | 5-6'                   |                    | Full Canopy                     |
|                  |                       |            |      | Green Buttonwood   |                |                |                        |                    |                                 |
| CS^              | 4                     | 4          |      | Conocarpus e. sericeus<br>Silver Buttonwood  | 12-14'         | 8-10"          | 5-6'                   |                    | Full Canopy                     |
| CR^              | 4                     | 4          | -    | Clusia Rosea<br>Pitch Apple  | 10'            | 7-8'           | 5'                     |                    | Full canopy                     |
| ED               | 9                     | 9          |      | Elaeocarpus decipiens  | 7-8'           |                | 3'                     |                    | Cone Shape                      |
| FD               | 3                     | 3          |      | Japanese Blueberry<br>Fillicium decipiens  | 14-16'         | 7-8'           | 5-6'                   |                    | Full to Base<br>Full canopy     |
| LJ               | 3                     | 3          | -    | Japanese Fern Tree<br>Ligustrum japonicum  | 8-9'           | 7-8'           | multi-trunk            |                    | Full canopy                     |
| PE               | 5                     | 5          |      | Wax Privet   | 16-18'         |                |                        |                    | multi-trunk<br>Single           |
|                  |                       |            | •    | Ptychosperma el egans<br>Alexander Palm  |                |                |                        |                    | Full head                       |
| PE2              | 2                     | 2          | -    | Ptychosperma el egans Alexander Palm   | 16-18'         |                |                        |                    | Double<br>Full head             |
| PE3              | 1                     | 1          |      | Ptychosperma el egans<br>Alexander Palm  | 16-18'         |                |                        |                    | Triple,<br>Full heads           |
| QV^              | 15                    | 15         | -    | Quercas virginiana   | 16-18'         | 7-8'           | 5-6'                   |                    | 200 gallon,                     |
| PM               | 2                     | 2          | 12   | Live Oak Ptychosperma macarthurii  | 18-20'         |                |                        |                    | Full Heads<br>7-9 trunks        |
| Sp^              | 21                    | 21         | _    | Macarthur palm<br>Sabal palmetto   | 10-18' O.A.    |                | -                      |                    | Full heads<br>stagg, ht. groups |
| VM               | 8                     | 8          |      | Cabbage Palm Veitchi a montgomeryana   |                |                | 18-20' O.A.            |                    | tied heads                      |
|                  |                       |            |      | Veitchia Palm  |                |                | 10-20 U.A.             |                    | Single Trunk, ful<br>head       |
| _                | SAND GROU             |            |      | POTANICAL/COMMONEY   | HEIGHT         | onner o        | CLEADITON              | on.*               | DEMARKS                         |
| CHA              | QTY. TOTAL            | LP-1<br>36 | LP-2 | BOTANICAL/COMMON NAME Chamaedorea cataractarum   | HEIGHT<br>4-5' | SPREAD<br>3-4' | CLEAR TRK Full to base | SPA.               | REMARKS<br>Full cont.           |
|                  |                       |            |      | CatPalm  |                |                |                        |                    |                                 |
| CHR <sup>*</sup> | 97                    | 97         |      | Chrysobalanus icaco 'Red Tip'<br>Cocoplum  | 2'             | 18"            | Full to base           | 2 o.c.             | Full cont.                      |
| CLH^             | 160                   | 68         | 92   | Clusia guttifera<br>Small Leaf Clusia  | 5'             | 20-22"         | Full to base           | 2 o.c.             | Full cont.<br>15 gal.           |
| COD              | 12                    | 12         |      | Codiaeum varigatum 'sloppy painter'  | 18"            | 18"            |                        | 2 o.c.             | Full clump                      |
| CRI              | 6                     | 6          |      | Sloppy Painter Croton Crinum asiaticum   | 30"            | 30"            |                        |                    | 7 gal.<br>Full clump            |
| FIC              | 352                   | 352        | _    | Crinum Lily<br>Ficus microcarpa 'Green Island'   | 16"            | 16"            |                        | 2 o.c.             | Full cont.                      |
| HAM^             | 42                    | 42         |      | Green Island Ficus Shrub<br>Hamelia patens 'dwarf'   | 18"            | 18"            |                        | 2 o.c.             | Full Cont.                      |
|                  |                       |            |      | Firebush   |                |                |                        | 2 0.0.             |                                 |
| HRS              | 13                    | 13         |      | Hibiscus R. sinensis 'Anderson Crape'<br>Weeping Hibiscus  | 6-7'           | 2-3'           |                        |                    | Standard Pink                   |
| JAS              | 244                   | 244        | •    | Jasminum volubile<br>Waxleaf Jasmine   | 18"            | 18"            |                        | 2 o.c.             | Full cont.                      |
| LAN^             | 320                   | 320        | -    | Lantana montevi densis   | 8-10"          | 10-12"         |                        | 2 o.c.             | Full cont.                      |
| LIR              | 1383                  | 1383       | 12   | Purple Training Lantana<br>Liriope m. 'Evergreen Giant'  | 10-12"         | 10-12"         |                        | 12"                | Full Clump                      |
| LMV              | 656                   | 656        |      | GiantLilyturf<br>Liri ope m. 'Variegata'   | 10-12"         | 10-12"         |                        | 12" o.c.           | Full Clump                      |
| NEP^             |                       |            |      | Variegated Lilyturf  | 18"            | 18"            |                        | 2 o.c.             | Full cont.                      |
|                  | 90                    | 90         |      | Nephrolepis 'exaltata'<br>Boston Fern  |                |                |                        |                    |                                 |
| NOD              | 79                    | 79         |      | Nerium oldeander 'dwarf'<br>Dwarf Oleander 'Pink'  | 18"            | 18"            |                        | 2 o.c.             | Full cont.                      |
| PHC              | 58                    | 58         | -    | Philodendron 'Rojo Congo'<br>Congo Rojo  | 24"            | 24"            |                        |                    | Full cont.                      |
| PHO3             | 4                     | 4          |      | Phoenix roebellini 'Triple'  |                | 5-6'           | 3-5' of wood           |                    | Triple Trunk,<br>Full Heads     |
| PHS              | 80                    | 80         | -    | Pygmy Date Palm Phymatosorus scolopendria  | 18"            | 18""           |                        | 2 o.c.             | Full cont.                      |
| PHX              | 30                    | 30         | -    | Wart Fern Philodendron xanadu  | 16-18"         | 16-18"         |                        | 2 o.c.             | Full Clump                      |
| PTV              | 56                    | 56         |      | Dwarf Philodendron Pittosporum T. Variegata'   | 18"            | 18""           |                        | 2 o.c.             | Full cont.                      |
|                  |                       |            |      | Variegated Pittosporum   |                |                |                        |                    |                                 |
|                  |                       | 68         |      | Schefflera arboricola 'Variegated'<br>Variegated Schefflera  | 18"            | 18"            |                        | 2 o.c.             | Full cont.                      |
|                  | 68                    |            |      | Landau Contract of the Contrac | 8-10'          | 5-6'           |                        |                    | Multi-stem                      |
|                  | 3                     | 3          | ŀ    | Strelitzia nicolai White Bird of Paradise  |                |                |                        |                    | Full Clump                      |
| SCH1             |                       | 3 4032     | -    | White Bird of Paradise<br>Trachelospermum asiaticum 'Minima'   | 4-6"           | 4-6"           |                        | 6" o.c.            | Full Clump<br>1 gal. cont       |
| SCH1<br>STN      | 3                     |            | -    | White Bird of Paradise   | 4-6"           | 4-6"           |                        | 6" o.c.<br>3' o.c. |                                 |



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Jacobsen Date: 2020.04.03 13:44:39 -04 2020.006.20042

FLORIDA LLROO ACH, "MIAMI BEA DETAILS M 8

REVISIONS:

MARCH 20, 2020 DATE J.R. DRAWN BY: M.J. APPROVED BY:

### I. Scope

The work includes furnishing all plants, materials, equipment and labor necessary for planting of plant materials indicated on the drawings and in these specifications. A list of plants is attached to these specifications

### 2. Plant Materials & Protection:

- A. All plant materials shall be nursery grown unless otherwise noted.
   <u>Spread (or Spr.)</u>: Indicates average spread to midpoint of current season's growth.
   <u>Height (or O.A.)</u>: Indicates averall height from top of ball to midpoint of current
- season's growth. <u>C.T.:</u> Indicates clear trunk measurement from top of ball to first branching (see tree \$
- Palm Planting Diagrams)

   Meter of Wood (or Meter of Hard Grey Wood): Indicates measurement of Palms from top of ball to top of solid trunk before start of frond stalks or green"boots". (See Palm Plantina Diagram)

B. Quantities:
All quantities indicated on the plant list are intended as a guide for the bidders and does not relieve the bidder of his responsibility to do a comprehensive plant take off. Should a discrepancy occur between the bidder's take off and the plant its quantity, the Architect/Landscape Architect is to be notified for clarification prior to the

## Quality and Sizes:

<del>violity and Sizes:</del> Plants shall have a habit of growth that is normal for the species and shall be healthy,

Plants shall have a habit of growth that is normal for the species and shall be healthy, vigorous and equal or exceed the measurements specified in the plant list, which are the minimum acceptable sizes. Plants shall be measured with branches in normal position. Pruning (Section IV.J.) should not reduce acceptable size and shape of tree, and should be done after acceptance of Architect/Landscape Architect.
Requirements for measurements, branching, grading, quality, balling and burlapping of plants in the plant list generally follow the code of standards currently recommended by the American Association of Nurserymen, Inc., in the American Standard for Nursery Stock, Plant materials shall be graded Fancy No.I or better as outlined under U.A.E. Grades & Standards for nursery plants. Plants that meet the requirements specified but do not have the normal balance of height and spread typical for the respective plant, shall not be accepted. All plant material to be healthy, pest and disease free.

<u>Substitution:</u>
Plant substitution requests by the Contractor will be considered by the Architect/Landscape Architect only upon submission of proof that any plant is not obtainable in the type or size specified. The Landscape Architect shall determine the nearest equivalent replacement in an obtainable size and variety. The unit price of the substitute Item shall not exceed the bid item replaced without approval of the Owner.

### E. Protection of Plants

### I Root Protection

A. Balled and Burlapped Plants (B & B) shall be dug with natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Balls shall be firmly wrapped with burlap or similar materials and bound with twine, cord, or wire mesh. All collected plants shall be balled and burlapped.

B. Container Grown Plants: Plants grown in containers will be accepted as B & B, providing that all other specified requirements are met. Container grown plants shall meet plant sizes as specified on the plant list and on the plans, and shall not be meet plant sizes as specified on the plant list and on the plans, and shall not be governed by container sizes. Minimum root balls or container grown material shall be no more than 25% less proportionately in size than that stated in "Grades & Standards" for nursery plants. These plants shall have been grown in the container for a maximum of two years prior to installation and shall exhibit a fully developed root system when removed from the container.

Protection During Transporting:
 All plant material shall be protected from possible bark injury or breakage of branches. All plants transported by open trucks shall be adequately covered to prevent windburn, drying or damage to plants.

Protection After Delivery:

Plants which cannot be planted immediately upon delivery to the site shall be covered with moist soil, mulch, or other protection from the drying of wind and sun. All plants shall be watered as necessary until accepted. Storage period shall not

4. Protection of Palms:
Only a minimum of fronds shall be removed from the crown of the palm trees to Only a minimum of tronas shall be removed from the crown of the pain trees to facilitate moving and handling. Clear trunk (C.T.) shall be as specified after the minimum of fronds have been removed. Coconut paims shall be "hard" trees grown in marl or sand. Cabbage paim buds shall be tide with a biodegradable cord to be left in place until the tree is well established in its new location. All paims shall be triple braced and staked with new, clean lumber at least 6" in length to resist tree

5. Protection During Planting: Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or bark slippage by means of other approved methods.

A. Commercial Fertilizer: Commercial fertilizer shall be organic fertilizer containing nitrogen, phosphoric acid and potash in equal percentages, 6-6-6 with micro nutrients.

Nitrogen shall be not less than 50 % from organic source, inorganic chemical nitrogen shall not be derived from the sodium form of nitrate. Fertilizers shall be delivered to the site in unopened original containers, each bearing the manufacturer's guaranteed analysis. Any fertilizer that becomes caked or otherwise damaged shall not be

The following shall be sterilized certified and free of seed:

- B. Peat: Peat shall be horticultural peat composed of not less than 60% decomposed organic matter by weight, on an oven dried basin. Peat shall be delivered to the site in a workable condition, free from lumps.
- C. Planting Soil:Planting soil for all plantings shall be sandy loam and shall contain a rianting soil: rianting soil for all plantings shall be sandy loam and shall contain a 258minimum amount of decomposed organic matter. There must be a slight acid reaction to the soil with no excess of calcium carbonate. Planting soil shall be free from clay, stones, plants, roots, and other foreign materials which might be a hindrance to planting operations or be detrimental to good plant growth and shall be delivered in a loose friable condition and applied in accordance with the planting specifications and details.
- D. Mulch: Mulch material to be shredded "dark brown" hybrid mulch B grade or better, moistened at time of installation to prevent wind displacement. Alternate mulch material may be noted elsewhere in these drawings.
- E. Drainage Stone (when applicable): Drainage stone shall be gravel or crushed stone reasonably free of sharp edges -  $\frac{1}{2}$ " -  $\frac{1}{2}$ " in diameter - as required in the bottom of raised planters
- F. Filter Fabric: (when applicable): Filter fabric, as required between gravel and soil in planters to be Dewitt "Filter-fabric" (800)888-9669 or equal.

## Planting Operations:

Soil <u>Preparation:</u>
All existing soil and new fill/berms shall be treated with an approved weed killer such as "Round by" according to manufacturer's specifications.

Layout:

Location for plants and outlines of areas to be planted are indicated on the drawings.

All plant locations shall be staked in the field by the Contractor, to the satisfaction of the Architect/Landscape Architect. Where construction or utilities below ground or overhead are encountered or where changes have been made in the construction, necessary adjustments will be approved by the Architect/ Landscape Architect.

Excavation for Planting:
Excavation of holes shall extend to the required sub-grades as specified hereunder Excavation of holes shall extend to the required surgrades as specified in authorized to the Plant pits shall be circular in outline and shall have a profile which conforms to the "Typical Tree & Palm Planting Details" (attached). The minimum depth of plant pits specified below shall be measured from the finishing grade. Shrub planting beds shall "bed-prepared" and not "pit-prepared"

### D. Balled and Burlapped Plants:

After final setting, loosen wrappings of balled and burlapped plants and roll wrappings back from top of ball, leaving ball unbroken. Cut off excessive amounts of burlap and remove in sufficient quantity to eliminate creation of voids upon decomposition.

Container Grown Plants:
Container grown plants shall, when delivered, have sufficient root growth to hold earth intact when removed from container. They shall not be root bound. Containers shall be removed to prevent damage to plant or root system according to diagrams (attached). Plant plits for container materials shall be formed flat on the bottom to avoid air pockets at the bottom of root balls.

Pit Sizes:
Minimum diameter (Midth) and depth of planting pits for balled and burlapped, and container grown plants shall be as follows:

-Diameter-Trees: 18" greater than diameter of ball or spread of roots.
-Diameter-Shrubs: 6" greater than diameter of ball or spread of roots.
-Depth-Trees and Shrubs: 4" greater than depth of ball or roots to provide 4" of topsoil backfill under the root ball. (Large, heavy trees and shrubs shall sit directly on excavated pit bottom to prevent settlement)
-Depth-Vines and Ground Covers: Pits shall be large enough for adequate planting.

Backfilling:
When pit has been excavated as specified in Paragraph IV-C, the pit shall be backfilled with material as specified in Paragraph III. A, B, C, D, and IV. B and shown in the Tupical Tree and Shrub diagrams (attached)

Setting Trees and Shrubs:
Unless otherwise specified, all trees and shrubs shall be planted in pits, centered and set on four inches (4") of compacted topsoil to such depths that the finished grade level of the plant after settlement shall be the same as that at which the plant was grown. They shall be planted upright and faced to give the best appearance or relationship to adjacent structures. No burlap shall be pulled out from under the balls Platforms, whire and surplus binding from top and sides of the balls shall be removed. All broken or frayed roots shall be cut off cleanly. Soil shall be placed and compacted thoroughly avoiding injury and shall be settled by watering. No filling around trunks will be permitted. After the ground settles, additional soil shall be filled in, to the level of the finished grade, allowing for two inches (2") of mulch. Form a shallow saucer around each plant by placing a ridge of soil along the edge of the plant pit.

Setting Palms:

All palms shall be planted in sand, thoroughly washed in during planting operations and with a shallow saucer depression left at the soil line forfiture waterings. Saucer areas shall be top-dressed two inches (2") deep with topsoil raked and left in a neat, clean

Pruning - New Plant Material:
Remove dead and broken branches from all plant material. Prune to retain typical
growth hobit of individual plants with as much height and spread as is practicable.
Make all cuts with sharp instrument Flush with trunk or adjacent branch, in such a manner
as to insure elimination of stubs. "Headback" cuts at right angles to line of growth will
not be permitted. Trees shall not be poled or topped. Remove trimmings from site.

# Guuina Tree:

<u>Guying Tree:</u>
(See "Typical Tree Planting Diagram" included herein.) Guy all trees II/2 inches in caliper and greater, in three directions with two strands of No. 12 galvanized wire attached to approved anchors driven below grade. When securing wires to trees, cover all wires which may come in contact with any part of tree with new rober hose. Place guys not less than 1/3 of the height of tree above finished grade and above substantial limbs (one inch [1"] in diameter or more), if possible. All hoses shall be interlocked around tree trunk. Place anchors so that guys are equally spaced and at 45 degree angles to horizon. Keep guys tight until project completion.

All trees and shrub beds shall be mulched immediately after planting to a two inch (2") depth. Prevent wind displacement of mulch by thoroughly wetting down.

M. Excess Excavated Soil:

Excess excavated soil shall be disposed of by the Contractor at no additional expense to the Owner, at Owner's discretion.

Relocated Material (when applicable): Existing material shown on the plan to be relocated shall be root-pruned as far ahead of time as necessary to move them safely, and shall be protected and treated as new material, as previously specified. Planting shall be in accord with these specifications.

O. <u>Disposition of Existing Material</u>:
All existing plant material not shown as remaining or relocated shall be removed from the site at no additional cost to the Owner, at Owner's discretion.

Soll:
The Landscape Contractor shall submit a unit price per cubic yard for the supply and distribution of planting soil as herein before specified, to be applied at a depth of one inch (I"), to all areas receiving sod. (The use of this one inch (I") of soil shall be at the discretion of the Architect/Landscape Architect after evaluation of the existing

## B. Grades:

It shall be the responsibility of the Landscape Contractor to finish (fine) grade all landscape areas, eliminating all bumps, depressions, sticks, stones and other debris to the satisfaction of the Architect/Landscape Architect.

- The sod shall be as called for on the landscape plans. Sod shall be of firm tough texture, having a compact growth of grass with good root development, and shall contain no weeds or any other objectionable vegetation. The soil embedded in the sod shall be good earth, free from stones and debris and all sod shall be free from
- D. Before being cut and lifted, the sod shall have been moved at least three times with a lawn movier, with the final moving not more than seven days before the sod is cut. The sod shall be carefully cut into uniform dimensions.
- Solid sod shall be laid with closely abutting joints with a tamped or rolled, even surface. It shall be the responsibility of the Contractor to bring the sod edge in a neat, clean manner to the edge of all paving and shrub areas. If, in the opinion of the Architect/Landscape Architect, top-dressing is necessary after rolling, clean sand will be evenly applied over the entire surface and thoroughly washed in.

### 6. Clean-up:

Any soil, peat or similar material which has been brought onto any paved areas shall be removed promptly keeping these areas clean as the work progresses. Upon completion of the planting, all excess soil, stones and debris which has not been previously cleaned up shall be removed from the site or disposed of as directed by the Architect/Landscape Architect.

# Maintenance:

- Maintenance shall begin immediately after each plant is planted and shall continue until all planting has passed final inspection and acceptance by the Owner. Maintenance shall include watering, weeding, cultivating, removal of dead materials, resetting plants to proper grades or upright position and restoration of the planting saucer and any other necessary operations. Proper protection to lawn areas and existing plant materials shall be provided and any damage resulting from planting operations shall be repaired promptly.
- B. The Contractor shall deep-water all trees and shrubs for a period of ninety (90) days after planting. In the event an irrigation system is operable, Contractor shall see that adequate water is supplied for that period.

## 8. Inspection and Acceptance:

A. <u>Inspection:</u> Inspection of work to determine completion of contract, exclusive of the possible replacement of plants, will be made by the Owner and/or Landscape Architect at the conclusion of all planting and at the written request of the Contractor.

After inspection, the Contractor will be notified by the Owner of the acceptance of all plant material and workmanship, exclusive of the possible replacement of plants subject to guarantee.

### 9. Guarantee and Replacement:

Suarantee:
The Contractor shall furnish a written guarantee warranting all materials, workmanship and plant materials, for a period specified in the General Conditions of Project Specifications. All plant materials shall be alive and in satisfactory condition and growth for each specific kind of plant at the end of guarantee period. Where vandalism is agreed by the Architect/Landscape Architect as the cause for replacement, the Contractor shall not be responsible for replacement during the guarantee after final acceptance. See General Conditions of Project Specifications for additional guarantee Information.

# Replacement:

<u>Replacements</u>.

During guarantee period, any plant required under this contract that is dead or not in satisfactory condition, as determined by the Architect/Landscape Architect, shall be replaced within two weeks of notification by the Architect/Landscape Architect. The Contractor shall be responsible for the full replacement cost of

Material and Operations: All replacements shall be plants of the same kind and size as specified in the plant list. They shall be furnished and planted as specified herein.

### 10. Care and Maintenance Schedule:

A. The Contractor shall furnish the Owner's Maintenance staff with a written and atealled description for the care and maintenance of all plant materials and irrigation systems at the time of final inspection. Contractor will also provide a one year Landscape Maintenance Contract, to take affect affect after Substantial Completion of the project. It will be in the Owner's discretion to accept or reject this contract.

# Permits and Regulations: A. The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of this work as drawn and specified.

12. Protection of Work and Property:

The Contractor shall continuously maintain adequate protection of all his work from damage and theft and shall protect the Owner's property from injury and loss arising in comection with this contract, making apad any such loss or injury or damage except where caused by Owner or his agents. He shall adequately provide and maintain passagemays, guard fences, lights and other protections required by public authority according to State, Federal and local ordinances.

The Contractor shall provide protection for existing trees and other plan material as designated by drawings, by Owner's representative or by local authorities. Such protection shall consist of fencing or such devices as will prevent harm to material from excavation, breakage, chemical or other types of

C. A competent superintendent, foreman or workman capable of reading drawings and acting on behalf of the Contractor shall be kept on the work during its progress.

# 13. Changes In The Work:

- A. The Contractor shall conduct a soil survey of the site to determine the need for any additives to overcome severe conditions not met by normal planting soil requirements. A report of any problems shall be submitted to the Owner and the Architect/Landscape Architect for approval prior to installation, along with a cost break-down of additional services needed.
- The Contractor shall advise the Owner and Landscape Architect of any specia site conditions (high water table, light or soil conditions, etc.) that might require change of plant material or adjustment to finish elevation shown. The Owner will approve any changes thus determined.

# 14. Landscape Architect:

A. The Landscape Architect is the author of the design and agents for its execution. When his services are used by the Owner for supervision, he shall act impartially between the Owner and Contractor and shall have authority to reject all work and materials which do not conform to the contract. All decisions of the Landscape Architect shall be final.

The Contractor shall remove from the site all materials considered not up to specifications by the Landscape Architect and replace with suitable materials.

## 15. Obstructions:

The Contractor shall acquaint himself with the existence and location of all surface and subsurface structures, utilities and installations before commencing any work, and shall avoid any disturbance or damage to them throughout the course of the work. Repairs to any utilities, subsurface structures and installations and surface obstructions damaged by the Contractor shall be at the Contractor's



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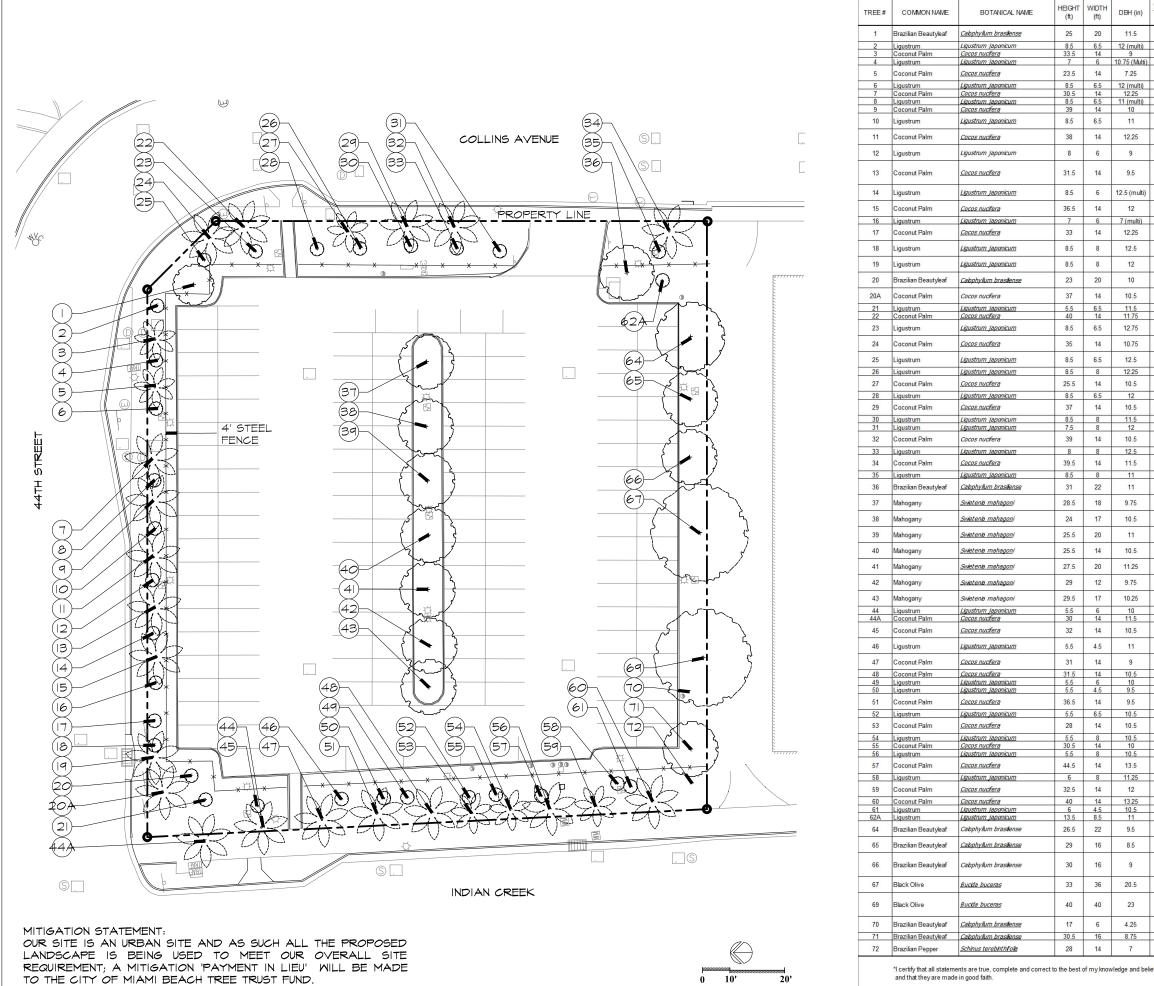
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MARCH 20, 2020 J.R.

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HEIGHT WIDTH HEALTH BOTANICAL NAME DBH (in) TRUNK OBSERVATIONS CONDITION Calophyllum brasilense 25 20 11.5 53% 8.5 6.5 12 (multi) 33.5 14 9 Shaped, poor structure, deadwood Cocos nucifera Nutrient deficiencies, trunk wounds 7.25 12.00 Poor 39% nutrient deficiencies 6.5 12 (multi) 14 12.25 6.5 11 (multi) Fair Fair Fair Liqustrum japonicum Shaped, poor structure, flush cuts 19.00 Ligustrum japonicun Shaped, poor structure, deadwood 24.50 Cocos nucifera Good 61% Good vigor 8.5 6.5 11 Liaustrum iaponicum Fair 51% Shaped, poor structure, stub and flush cut: 14 12.25 24.00 Cocos nucifera Fair wounds (west and east) Shaped, poor structure, flush cuts, Ligustrum japonicum 8 Fair 50% Large trunk wound (east), additional trun 31.5 9.5 18.50 Poor 39% Cocos nucifera wounds (north and south), nutrient deficiencies naped, poor structure, visual evidence 8.5 6 12.5 (mult Fair decay Nutrient deficiencies, trunk wounds (eas 36.5 14 12 21.50 Fair 57% Cocos nucifera and south), curved trunk 7 (multi) Fair Shaped, poor structure, flush cuts Severe pencilling, trunk wounds (south a 33 12.25 19.50 Poor 39% Cocos nucifera east), nutrient deficiencies Shaped, poor structure, flush cuts, Liqustrum japonicum 8.5 12.5 Fair 8.5 Fair 50% Ligustrum japonicum decay, flush cuts Cabphyllum brasitense 23 20 10 Fair 54% Significant pencilling, trunk wound (north 10.5 Poor and nutrient deficiencies Fair Fair Cocos nucifera Severe pencilling, nutrient deficiencies Shaped, poor structure, deadwood, stub 8.5 6.5 12.75 Fair 50% Liqustrum japonicum Large trunk wound (north), trunk curve nutrient deficiencies 35 14 10.75 22.00 Fair 46% 8.5 6.5 Fair Shaped, poor structure, stub cuts and 12.5 49% Ligustrum japonicum deadwood Cocos nucifera 25.5 10.5 14.50 Fair 47% wounds (north) Shaped, poor structure, deadwood lk curve, nutrient deficiencies, vertica trunk cracks Ligustrum japonicu Fair Cocos nucifera 37 14 10.5 22.50 Poor 39% 11.5 Fair 51% Ligustrum japonicun Shaped, poor structure, deadwood Shaped, poor structure, deadwood Cocos nucifera 14 10.5 21.00 Fair 42% trunk wound (south) 8 8 12.5 Liqustrum japonicur Fair 51% Shaped, poor structure, deadwood Cocos nucifera 39.5 14 11.5 23.00 Fair 49% Nutrient deficiencies, trunk wound (east) igustrum japonicum 51% Shaped, poor structure, deadwood Fair 31 22 Cabphyllum brasilense Fair 47% structure, deadwood 28.5 18 9.75 Fair Swietenia mahagon wound (south), confined roots Poor structure, over-lifted, deadwood, stub Swietenia mahagon 24 17 10.5 Fair 53% cuts, confined roots
Poor structure, deadwood, stub cuts, 25.5 Swietenia mahagon Fair confined root space Poor structure, deady Swietenia mahagon 25.5 10.5 Fair 50% 27.5 11.25 Fair Swietenia mahagon space vood, stub and flus 9.75 Fair Swietenia mahagon 29 12 50% cuts, confined root space Poor structure, deadwood, stub cuts 29.5 17 Fair Nietenia mahagori 10.25 confined root space haped, poor structure, deadwood Nutrient deficiencies, pencilling Cocos nucifera Nutrient deficiencies, pencilling, trunk 10.5 21.50 Cocos nucifera 32 Fair 47% wounds (west and north) Liqustrum japonicum 5.5 4.5 Fair evidence of decay Nutrient deficiencies, pencilling, trunk Cocos nucifera 21.50 Fair wounds, girdling (north) 10.5 22.00 Fair Liqustrum japonicur 5.5 6 10 5.5 4.5 9.5 Shaped, poor structure, deadwood Ligustrum japonicum Fair Shaped, poor structure, deadwood Cocos nucifera 36.5 14 9.5 24.00 Fair 47% Nutrient deficiencies, trunk wound (west) Ligustrum japonicur Fair Shaped, poor structure, deadwood 14 10.5 17.50 Fair 52% Cocos nucifera wounds (west and south) igustrum japonicu Shaped, poor structure, deadwood Cocos nucifera Nutrient deficiencies, pencilling Shaped, poor structure, deadwood Nutrient deficiencies, trunk wounds (wes Cocos nucifera 44.5 14 13.5 31.50 Fair 49% 11.25 Ligustrum japonicur 6 8 Fair 51% Shaped, poor structure, deadwood 32.5 14 12 17.00 Fair 46% Cocos nucifera Nutrient deficiencies, trunk wounds (north 13.25 26.50 Good Shaped, poor structure, deadwood Liqustrum japonicum 13.5 8.5 Fair 51% Shaped, poor structure, deadwood Poor structure, flush and stub cuts, confin roots and overlifted canopy Cabphyllum brasilense 26.5 22 9.5 Fair 47% Poor structure, flush and stub cuts, confi Cabphyllum brasiliense 29 8.5 Fair roots, trunk lean (north) Poor structure flush cuts confined root 30 16 9 Fair Poor structure, flush cuts, trunk cracks, Poor 33 36 20.5 Bucida buceras 38% girdling roots, confined root space

Poor structure, flush cuts, overlifted canopy
large diameter deadwood, trunk wound 40 23 Fair 43% Bucida buceras (north)
Poor structure, crowded canopy, trunk Cabphyllum brasiliense 17 4.25 Fair 45% 45% girdling (wellington tape)
53% Poor structure, canopy crowding 8.75 Fair Category 1 Exotic Invasive, does not requ Schinus terebinthifolia 28 14 Poor 39%

Mark C. Williams FL-5221 AM, ISA Certified Arborist Municipal Specialist



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MARCH 20, 2020 DATE

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