
ROBERT D. BRENNAN

ARBORICULTURAL CONSULTING

3074 Kirk Street, Coconut Grove, Florida 33133 T 305-323-7342

7/8/2012

Asi Cymbal

Cymbal Development

3470 North Miami Avenue, Upper Suite

Miami, Fl 33127

Asi,

Responding to the City of Fort Lauderdale DRC Comment report Case Number 51R12.

Landscape division member: Dave Gennaro

Comment 1.

Tree has been independently identified by three different sources, Montgomery Botanical Center, Fairchild Tropical Botanic Garden Herbarium, and two sources at the Agricultural Extension Service in Homestead Fl Dr, John McLaughlin, Aggricultural extension, Henry Mayer Agricultural Extension, Dr. Brett Jestro Fairchild Herbarium, Lee Anderson, Superintendant Montgomery Botanical center.

As a member of the American Society of Consulting Arborist, International Society of Arboriculture, Certified arborist FI-1059-A. I have experiance and education in moving large trees. I have seen and helped with a number of large tree moves all succesfull after five years.

I only work with people who are experianced, compitent, and proven in there chosen profession. In this case Davey Large Tree moving will do the work under my supervision. They moved the Tory pine. (golfers will understand)

Sharp digging and cutting tools will be used to ensure no unnessary damage to the root system. Appropriate calculations will be made prior to any digging to estimat the weight and density of the rootball and tree combination, so the tree can be lifted and

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transported to its new home. The tree will be lifted from the ground with I-Beams and Jacks rather than straps around the trunk. The rootball will be wrapped in wire and cloth to hold it together. More detailed information will come from the Davey Large tree moving division if necessary.

The process will take thirty to sixty days for preparation and moving.

This magnificent tree is nearly 80 feet tall, the canopy is 135 feet east to west, and 110 north to south, a diameter at breast height 6'4", measured (DBH) 54" above ground level.

Structure assessment:

- 1) There is one large dead limb in the south west center corner, about 35 feet from the ground, 4-6" in diameter and about 12 feet long that should be removed.
- 2) There are no broken hanging branches
 - a. There is a good aspect ratio of trunk to limb and limb to limb
 - b. There is no obvious included bark, no multiple branches or included bark
- 3) The main trunk has a codominant stem two trunks over 3 feet, diameter each (not measured with a tape)
- 4) I saw no cracks into or thru the wood anywhere in the tree.
- 5) Wood decay in the trunk: missing bark measuring less than one foot in diameter
 - a. Appeared clean with no insect frass. No conch or mushroom growth
 - b. One abnormal growth
- 6) Chankers: There were no chankers found at the time of inspection

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- 7) Bark is very healthy and attached well all around
- 8) Tree architecture is textbook No unusual taper or architecture.
 - a. Live crown ratio 65%
 - b. Height is 80% of the crown diameter
 - c. Branch distribution is excellent
 - d. Crown is definitely dominant
- 9) Root and collar inspection
 - a. No severed roots
 - b. A small decay in the basal trunk.
 - c. There are no restrictions to growth
 - d. There are no girdling roots
 - e. The tree is growing on a high area but no lifting of the root plate or soil cracks are evident.
 - f. There is no evidence of undermining of the trunk or root system
 - g. The basal flare is spectacular with a small decayed area
 - h. There is no reason to believe there is any soil issue. Soil is sandy

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10) Decay assessment

- i. Decay was assessed visually and lightly probed with a knife. There was no insect activity or signs of soft wood rot. Further investigation did not seem necessary.
- j. Additional testing could be done at additional cost.

Based on overall health, I believe this spectacular example of *Albizia Serranae* tree is a good candidate for moving and should be moved to a place with good sun exposure.

The assessment was based on "Tree Hazard Evaluation Form" 2nd Edition from the book A photographic Guide to the Evaluation of Hazard trees in Urban Areas. By Nelda P. Metheny and James R. Clark

Yours in arboriculture,



Robert D. Brennan

Certified Arborist

FI-1059-A

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5) b.

Abnormal growth fifteen feet from trunk and twenty five feet from ground South side of tree facing west.



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9/1/2012

Asi Cymbal

Cymbal Development

3470 North Miami Avenue, Upper Suite

Miami, FL 33127

As you asked I went to the Fort Lauderdale site to specifically look at the space at the end of the planned parking area for placement of the *Semanea saman*, there is space for the Rain tree to be placed there. The sad part is there are 10 or more very large trees that are in the way. To be able to move the Rain tree into place these trees would need to be moved first then move the Rain tree, into place then move them back. Please find a partial list of the trees that will be in the way.



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Looking to the north we find seven substantial Live Oak trees, *Quercus virginiana*, one Mango tree, one coconut tree and two laurel oaks.



The first two oaks are DBH 50 inches and -----

Sixty feet tall with good root flair, some canopy damage with fern and vine growing thruout. Healthy trees, need some pruning help.

One mango tree 18.1 inches DBH 50 feet tall with trunk damage and central canopy damage.

One coconut tree 9.2 inches in diameter...35 feet tall healthy

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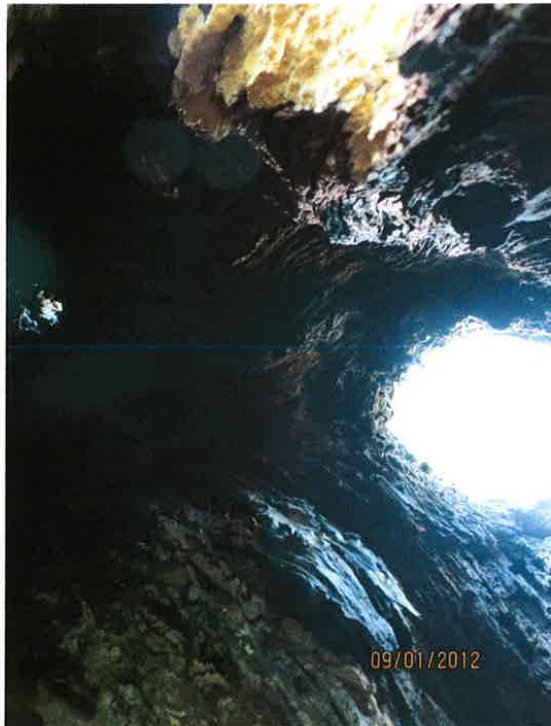
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Large oak 38.2 DBH Co-dominant stems cavity in the South stem with *Ficus altissima* and *ficus citrifolia* growing in the wounds.

All of these trees will be moved to the river walk area between the new building and the river walk.

There is one tree that is not recommended for moving, that is a laurel Oak that has central trunk decay that you can see out the rotted limb ten feet above the ground.



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This will clear the way for the preparation of what is now a boat trailer lot to become the new home of the Rain Tree. It is the perfect place there will be no shade cast on the canopy and we will be able to bring the sandy soil with the tree to grow in again. The breeze on the corner of the property will be awesome, and protect the Rain Tree from fungal growths as well as give the local hawks a place to hunt from.

This is a very large project and will require the cooperation of everyone involved and good understanding of the city needs and wants as well as time to prepare properly not only the Rain Tree but the rest of the trees as they are just as important as the Rain Tree.

Once again, I remind you of funding for the long term care of the trees that are being moved, I am putting together a five to ten year plan for care and monitoring of these trees. We will check moisture not only at the surface but one, two and three feet down to ensure moisture is reaching all of the roots.

Yours in arboriculture,



Robert D. Brennan

FI-1059-A

ROBERT D. BRENNAN

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3074 Kirk Street, Coconut Grove, Florida 33133 T 305-323-7342

October 30, 2012

I met Asi Cymbal in March of 2012 when I was asked to give my opinion of whether a tree could be moved near the New River in Fort Lauderdale. After discussing my fee, which weeds out the pure information seekers.

We arranged a meeting at a vacant lot next to 413 SW 3rd Ave. In Fort Lauderdale where the water taxi calls home. I recognized the restaurant Pirate 's Republic right away from visiting the Children's museum years before... on the other side of the New River. The water and the railway always fascinated my children.

Meeting Asi was easy, greetings in the parking lot, then a walk around the property and finally a view of one of god's most spectacular gifts. While Asi spoke of the wonder of this tree I told him it would be very expensive to move the tree. He was not dismayed, or surprised. He assured me he prized, the tree and wanted to protect it at all cost.

In several meetings and discussions with others about the project Mr. Cymbal has mentioned that his partners live on the edge of a forest and also are interested in protecting the trees on the property, either by moving them onsite or giving them to local parks.

I introduced Asi to Paul Cox of Environmental Design, a company whose only work is moving giant trees. I have worked with his company before and have been impressed with how they work and the way they work. I have met many so-called professionals in forty years in the tree industry. Very, very few would I associate my name with.

When we talked about moving the High-tension wires before moving the tree Asi said he was already talking to Florida Power and Light. Asi Cymbal impresses me with the conversations we have with his understanding of making so many thing come together before this project can even be considered. He impresses me as a person who is driven by excellence of those around him and of himself. I am honored to be part of the team on this project...

Asi is warm, genuine, and fair, he cares about the environment in general and as a whole, I believe he will do as he says he is going to do. Move the Rain Tree, Save some 60 other trees on the property, some by going to local parks and others to remain on site.



Bob Brennan, Certified Arborist FI-1059-A
President of the "Tropical Arborist Guild"

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Treeguru@me.com

ROBERT D. BRENNAN

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3074 Kirk Street, Coconut Grove, Florida 33133 T 305-323-7342

March 17, 2013

Asi Cymbal,
3470 North Miami Ave.
Miami Fl 33127

Dear Asi,

Thank you for involving Arboricultural Consulting, Inc. in the planning stage of your Marina Lofts project/development. Your preemptive action will save the lives of many trees on the project site, but most importantly ensure and preserve the life of the *Albizia Samanea saman*, or as more commonly referred to, the "Rain Tree". Below I have outlined answers to the questions you have posed.

**Why am I recommending that the Rain Tree be moved
from its current site?**

In order to ensure a long quality of life for the Rain Tree, it tree must be moved to a better place. Where it will receive better sunlight and breeze once the development is constructed, the Rain Tree will suffer from lack of airflow, sunlight and room to grow, as buildings will now surround it. The conditions giving rise to the Rain Tree's development would no longer exist in its current location. Leaving it where it is would reduce airflow and light to the canopy as the new building go up. Leading to stagnant air and potential fungal and bacterial growth due its large canopy significant portions of the canopy would need to be trimmed to accommodate the buildings surrounding it. The canopy would require about 25-30% of its branches to be pruned/trimmed to make space with for the new building

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Can the Rain Tree be moved and will it survive the relocation?

Yes, it can be moved, the cost will exceed the value awarded it by Council of Tree and Landscape Appraisers' Guide for Plant Appraisal, 9th edition. Additionally, the relocation will require a long and involved process in order for it to be moved to its new home.

Although, a slow carefully planned and executed transplanting plan ranging from three to nine months, the moving process will not risk the vigor of the tree if done properly with the right team of people. Tools from tensiometers (measure soil moisture), Saline testers, Ph test kits, leaf chemical analysis in a laboratory, axes and portable saws, electric generators, large air compressors, to giant jacks that once upon a time lifted 747 aircrafts will be utilized in this process. Specially made dollies to transport the trees. Careful attention will be paid to the tree's "water weight" and diurnal response, as water will be lost due to daily transpiration. Water will be added to the canopy and the root ball as needed on a daily to weekly basis as needed, to help protect it from heat exposure and stress. The measurements of soil moisture will be taken at three different depths during test times. A mature tree can translocate 200 to five hundred gallons of water per day. When we are done we will feel good that another *Albizia Semeae* will push toward the 350 year mark like the one in St. Kitts at the Romney Manor.

Root pruning requires time and the right eyes to monitor tree turgidity, vigor and growth to eliminate mistakes before they become problematic for the tree. Our experienced team will be able to excavate the new roots with an air knife to see them without damaging them. I have arranged to have on our team several Certified Arborist, Board Certified Master Arborist, Municipal Arborist as well as PhD's in botany and plant pathology, as well as a few Landscape/Nursery individuals to ensure that the removal, transportation and replanting is a success at each step of the way.

Through the Tropical Arborist Guild, I am also creating a team of young, emerging botanists, biologists, horticulturalists, and arborist to

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work with us who will understand and appreciate what we have done and will be able to monitor the health and vigor of the Rain Tree for the next several decades of its life.

Moving any tree successfully is about science and engineering, not luck nor guessing. Decisions will be made by what we see with our eyes, not by a clock, calendar or banker's schedule. This Rain Tree **CAN** be moved successfully, and you have engaged the right people for the job.

Why was the future site for the Rain Tree chosen?

I examined the Rain Tree over a dozen times, spent hours removing sand and dirt from the roots of the Rain Tree, and measuring viable locations where the Rain Tree could thrive. Additionally, I have discussed the relocation of the Rain Tree with members of American Society of Consulting Arborist (some who live in England where the most stringent rules about trees exist), Certified Arborist, a couple of Municipal Arborist, and a few Board Certified Master Arborist, and a couple of people who I played golf with. Whose first question was why? A Question Steve Clark taught me was always a good question... (Steve Clark was an icon in tree protection before his death in the early 1990's) It is my determination, that the Rain Tree should be relocated to the corner of SW 3rd Avenue and SW 5th Street of the Property.

The Rain tree has, wherever it grows in the world, been the most dominant shade maker. It provides protective shade to the plants and people under its canopy. I searched the property for a space where there would be no shade cast upon its canopy from buildings or other trees.

When considering the specie for moving I remember the cousins of the Rain Tree are considered invasive and grow rapidly as well as the *seman*. Five *albizia* varieties common in south Florida, *julibrissin*, *lebbeck*, *lebbekoides*, *niopoides*, and *seman*, are all considered rapid growers. *Seman* is known for shedding limbs, and will be pruned to reduce the tip weight when that becomes necessary. The *Semans*, or Rain Trees, rapid root growth make it a good candidate for moving according to Keith Lane of Signature Tree Moving who has moved more than three. One to the entrance of the Lipton Tennis tournament, one to

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Fairchild Tropical Botanic Garden and one from Homestead to Boynton Beach to a private home on the water. These were all done successfully and are doing well today. It is said that trees that move well as bare root standard will move well as mature trees, Seman or Rain Tree does that well because of its abundant parenchyma cells radial and axiel.

I have been speaking with people who transplant large trees from all around the world. It is a small but very successful group of people from England and Australia, and the US.

Your team produced a shadow plan of what the shade from the new buildings, convinced me the South East corner of the property was the location best suited to ensure the survival of the Rain Tree due to its ability to photosynthate properly. I hope that the Rain Tree's new home will be named, "Rain Tree Park."

At this location, the Rain Tree would no longer be subject to construction activity and equipment. Furthermore, the Rain Tree's expansive canopy will fit better in the new location. The proposed location provides ample space for the tree, ensures plentiful sunlight and air, preserves the Rain Tree's existing North-South and East-West orientation, and ensures that no existing structure shades it. Relocating the Rain Tree prevents the need for additional canopy pruning and allows the Rain Tree to enjoy vigorous growth and full canopy to produce its own food sugars and carbohydrates thru photosynthesis for many years to come. I think it will be a disservice to the community and the Rain tree to leave it trapped behind a duplex and a chain link fence, where it sits now. Wherever it lives we will protect it from construction damage!!!! It will be easier in its own park.

Tree protection comes in many fashions. Using the ANSI A-300 Part 5 as a guideline for tree protection during this process and involving many people who have had great success moving large trees, like Paul Cox from Environmental Design, the success of relocation is without question. . We plan to bring in a special transport vehicle to move the Rain Tree as well as the Oaks. Big Al is potentially 60 feet long and twenty feet seven inches wide 48 sets of wheels capable of going in any direction, even a standing circle. This company built the transports that

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moved the space shuttle. The transport is only operated by the owners but under the direct supervision and direction of the staff of Environmental Design. There will be more detail in the report for Environmental Design.

Your dedication to the Rain Tree and its survival is clearly evident in your efforts to ensure a long, prosperous life for this special specie. I believe relocating the Rain Tree to its own park, while educating the public about how special the tree is, as well as how it is being protected will ensure the preservation of this tree in Fort Lauderdale's history for many more decades to come. You and the city of Fort Lauderdale can lead the United States in Tree protection, and preservation.

Other obstacles we will encounter will be the several large Oak trees along Third Avenue and Fifth Street. These will be moved to the waters edge and river walk between where the Rain Tree is now and the New River. Tree protection will be properly installed and checked on a daily basis. The Construction team will be informed of the penalties for disturbing the Critical root zone. This will be a dusty time and the canopies of the trees will be sprayed with water to remove dust when it does not rain enough. The Large Electric transmission wires will be placed underground before the move but root pruning will be done prior to the burying of the electric wires. Any trees staying in place will be root pruned at the edge of the critical root zone to save the roots from being crushed by construction vehicles and traffic. We will start as soon as we get permission from the City of Fort Lauderdale. We have a stand by watering truck that can move water from the other side of town if the water becomes contaminated for some reason.

There is a one-story building that will be torn down to make a path to move oak, mango, and Coconut prior to the Rain tree moving, but prior to that the people in the offices in that building will be relocated.

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We know there will be some light pruning of the Oak trees along Fourth Street. We have been approached by some residents about donating some trees to local parks, we would love to do if we can make arrangements for them to be taken care of by the new owners of the trees.

We are looking forward to working closely with the City of Fort Lauderdale staff to overcome any obstacles or clarify any ordinance issues that might arise.

The logistics of this project are immense and being dealt with on paper as we progress each day.. There will be days of consternation, we are a positive group of people who fix problems for a living and these days are no different. New day, new problem, work on it, till we are done, **then**, we help the others in the group.

As we have discussed many times and have agreed this is not a one year project. This is a ten year project with the followup maintenance of the transplanted trees being a separate part of the landscape and to take priority over the new landscape if it falls within the critical root zone of any tree moved.

Yours in arboriculture,



Robert D. Brennan
Consulting Arborist/ Marina Lofts
Certified Arborist FL-1059-A

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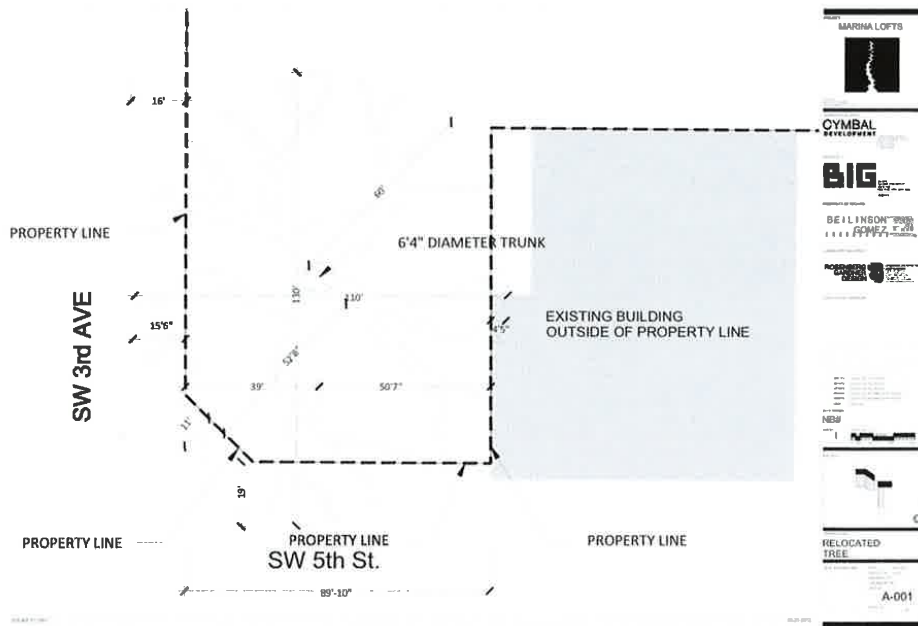
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Member:



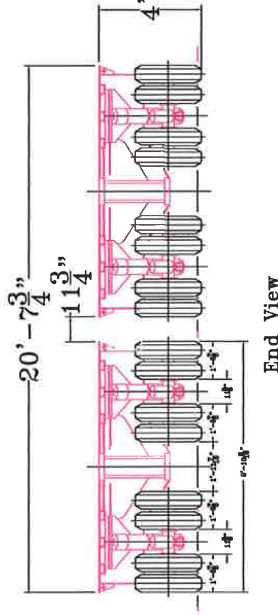
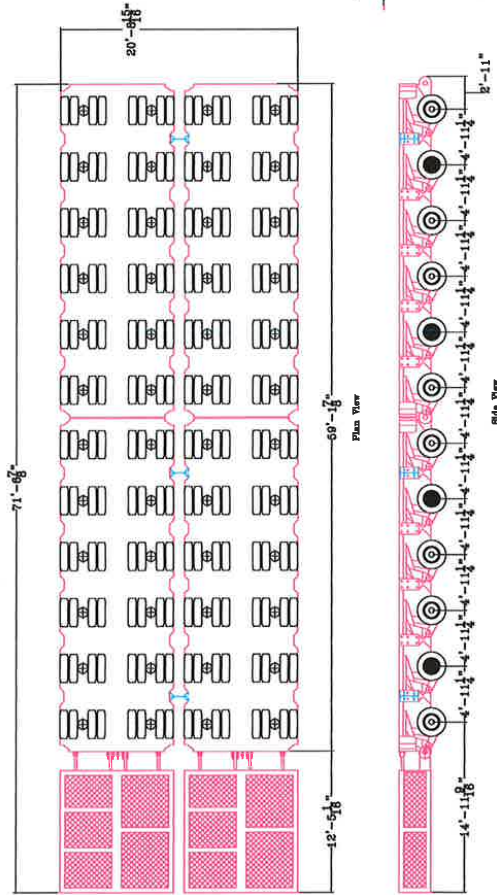
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NOTES:

1. TREE OMITTED FOR CLARITY
2. MAX LOADING IS 36 TONS / LINE.
3. DRIVE AXLES MAY VARY.
4. TIRE SIZE IS 215/75 R17.5



Overall Dimensions

Width	Length	Height	Total Gross Weight (lbs)
42"	82'-3"	N/A	943,000

Goldhofer Transporter Load Data

Axles	1	2	3	4	5	6	7	8	9	10	11	12
Gross Weight (lbs)	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0	20,250.0
Working (lbs)	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3	59,333.3
Gross Weight (lbs)	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3	78,583.3
Tires (lbs)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Load (lbs)	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5	4,911.5
Tire Size	215/75	215/75	215/75	215/75	215/75	215/75	215/75	215/75	215/75	215/75	215/75	215/75



ENVIRONMENTAL DESIGN INC.
12 LINE DOUBLE PST-SLE
DIMENSIONS AND DETAILS FOR "BIG AL"

SCALE	DATE	BY	APP'D	JOB NO.	DWG. NO.
1"=100'	8/17/2011	JOHNNY BEARD	JOHNNY BEARD	N/A	N/A

ROBERT D. BRENNAN

3074 KIRK STREET • MIAMI, FLORIDA 33133

T: 305.323.7342 • TREEGURU@MAC.COM

CERTIFICATIONS

University of Florida Institute for Food and Agricultural Sciences,	April 2012
Green Industries' Best Management Practices Certificate,	April 2010
Consulting Arborist,	2005
Certified Horticulture Professional, Miami-Dade County Extension Service,	May 2004
International Society of Arboriculture, Certified Arborist	

AFFILIATIONS

Tree Climbing Concepts Training team	2009- Present
Broward Beekeepers' Association	2011 – Present
American Society of Consulting Arborists	2010 – Present
Tropical Arborists' Guild	2009 – Present
Official Unofficial Tree Climbing Training Team	2008 – Present
International Society of Arboriculture	2004 – Present
National Plant Diagnostic Network	2004 – Present
Society of Municipal Arborists	2004 – Present
Junior Chamber of Commerce	1974 – 1989
Miami-Dade Agricultural Extension Service	1972 – Present

SPEAKING ENGAGEMENTS

"Laurel wilt" Red Bay Ambrosia beetle, Tropical Arborist Guild	May 25, 2012
"Proper Pruning," Flowering Tree Society	2012
"Proper Pruning," Fairchild Tropical Botanic Garden	2011
"Pruning Trees," WZAB 880 AM Radio with Mark Benson	2011
"Proper Pruning Within the Code," Shell Lumber	2011
"Proper Pruning of Your Fruit Trees," Rare Fruit Council, West Palm Beach Chapter	2011
"Proper Pruning of Your Fruit Trees," Rare Fruit Council, Miami Chapter	2010 – 2011
"Proper Pruning," Fairchild Tropical Botanic Garden	2010
"The Importance of the Agricultural Extension," Miami-Dade County Commission	2009– 2011
"Rigging, Cabling, Knots and Bracing," City of Miami Beach, Department of Parks & Recreation,	2007
Host, Municipal Arborist Society Visit to Fairchild Tropical Botanic Garden,	2007
"Proper Pruning," University of Florida Institute for Food and Agricultural Sciences, Miami-Dade Extension,	2006 – Present
Meaning of the Jaycee Creed,	April 1984

HONORS AND AWARDS

Chair, Urban Advisory Committee	2005	2012
President, Tropical Arborists' Guild	2009	Present
University of Florida Institute for Food and Agricultural Sciences, Homestead Extension, "Outstanding Volunteer Homestead"		2005
State Representative to Jaycee International		1992
Jaycee President Award of Honor		1986
Outstanding State Chairman Government Involvement		1984
Outstanding Young Men of America		1983
Junior Chamber of Commerce	<i>Jaycee of the Year,</i>	1979
Jaycee of the Quarter		1, 3, 4, 1979

EXPERIENCE

Consulting arborist Indian Creek Country Club 2009 - Present

Oversee restructuring of Large Ficus trees at the entrance to the Clubhouse and pool area

Fairchild Tropical Botanic Garden*Arborist, 2009 – Present*

Inspect, feed, prune and care for trees in an 83 acre botanical garden of global significance for its collection of taxonomically arranged and well-documented tropical plants. 22 acres, Avocado, Mango, lychee, longan. Banana, loquat, sapodilla brown, sapodilla white, sapodilla black, sapodilla yellow, citrus, Flowering trees, Bauhenia, Ceba pentandra, Red ceba, Poinciana Red, Poinciana yellow, jacaranda, Chinese box, palms and native trees. Plan and create lectures on Fungus, pruning, invasive plants, chain saw safety, climbing safety, tools studied and purchased.

City of Miami*Consultant, 2008*

Advised city officials regarding transplanting trees from the site of the Orange Bowl and other projects.

Brennan's Tree Service*Proprietor, 1969 – 2009*

Owned and operated tree care and landscaping company that inspected, fed and pruned trees. Maintained and cleaned tools and equipment and researched current techniques. Hired and trained workers, supervised and inspected work, and managed schedules and payroll. Printed cards, arranged telephone service, received telephone calls, scheduled appointments, kept appointments, gave estimates, collected payments, got education at Fairchild Tropical Botanic Garden.

Judge, Florida ISA Tree climbing Championship

2013

PERSONAL INFORMATION

Married to Eileen Brennan since 1984, three children, Louis, Robert and Talia

EDUCATION

Continuing Education

Research Study – Fungal Damage in Trees	2007 – Present
Mangrove Protection	2008
Mature Tree Preservation	2006 – Present

Additional 429 units of continuing education from the International Society of Arboriculture, instructor of several courses (90 units required, details upon request)

Miami Dade College, Miami, Florida

Studied, Science for Computer Programming & Analysis, 1999-2002

Associate in Arts for Physical Education, 1975

Coral Gables Senior High School, Coral Gables, Florida

Diploma, 1971

COMMUNITY SERVICE

The Barnacle Society, Board of Directors

2010 – Present

Committee to Rewrite the Miami-Dade County Street Tree Master Plan 2009

Advised Miami-Dade County on standards and practices for planting and maintaining trees in urban environment.

Committee to Amend Village of Pinecrest Tree Code 2012

Advised Village of Pinecrest on standards and practices for planting and maintaining trees in suburban environment.

Committee to Rewrite City of Miami Tree Code 2009 – 2011

Advised City of Miami on standards and practices for planting and maintaining trees in urban environment.

Urban Advisory Committee

Chair, 2005 – 2012

Participated in committee advising University of Florida College of Design, Construction and Planning on standards and practices for planting and maintaining trees in urban environment.

Boy Scouts of America, Troop 21

1997 – 2008

Organized and trained Boy Scouts in activities oriented towards teaching positive values, good character, responsible citizenship and physical fitness, as Assistant Scoutmaster from 2000 until 2008 and Scoutmaster 1997 until 2000.

YMCA

Soccer Coach, 1991 – 2000

Volunteered as coach for community co-ed soccer team, instructing children on sportsmanship, team building and technique.

Coconut Grove Elementary

Parent Teacher Association, 1991 – 2001

Participated in activities to support neighborhood elementary school, including service as chairman of the committee for organizing and managing sale of parking during the annual Coconut Grove Arts Festival, King Mango Strut and Goombay Festivals.

Junior Chamber of Commerce

1991 – 2000

Participated in an organization of young professionals oriented towards teaching leadership development and business skills through community service and individual development activities. Serves as International Senator #44709

REFERENCES

Jeff Shimonski
Vice-President for Horticulture
Jungle Island
1111 Parrot Jungle Trail
Miami, Florida 33132
305-773-9406

Aaron Palmateer
Plant Pathology Department
Tropical Research and Education Center
18905 SW 280 Street
Homestead, Florida 33031
305-246-7001 Ext. 270

Fred & Faith Sandstrom
1720 Tigertail Avenue
Miami, Florida 33133
305-854-5384

Homer Whitaker
Assistant to Commissioner Suarez, Miami-Dade County
3750 S. Dixie Highway
Miami, Florida 33133
305-606-1881

Robert D. Brennan 3/25/2013

ROBERT D. BRENNAN

ARBORICULTURAL CONSULTING

3074 Kirk Street, Coconut Grove, Florida 33133 T 305-323-7342

6/30/2012

Asi Cymbal

Cymbal Development

3470 North Miami Avenue, Upper Suite

Miami, Fl 33127

Rain tree: Common Name

Botanical name: *Albezia Samanea saman* (Jacquin) Merrill

Fabaceae (legume family)

This tree is native to Northern South America, Columbia and Venezuela, and naturalized thru the tropics. Including south Florida. They will grow to 50 - 80 feet in height and have a canopy of 100 feet or more with a trunk diameter of 3-6 feet. In the Pacific they are considered a pest tree. In rare cases the *Albezia semanea saman* can grow to 160 feet in height, 200 feet in canopy spread and 10 feet Diameter at Breast Height.

The Fort Lauderdale tree has a diameter at breast height of 6'4" a height of near 80 feet with a canopy spread 130 feet north to south and 110 feet east to west.

The age of this tree is within the 80 to 100 year range, calculating height, canopy, and diameter at breast height.

The lifespan of the *Semanea saman* is in the 100 to 300 years on average.

The light requirements of this tree are grand, and will thrive in full sun. The leaves fold on to themselves on cloudy days to allow the rain to drop thru the canopy. Its natural habitat is savannah like land, it likes raised land just inside of the mangrove line.

ROBERT D. BRENNAN

Arboricultural Consulting Inc.

3074 Kirk Street, Coconut Grove, Florida 33133 T 305 323 7342

The saplings of the *Semanea saman* are intollerant of shade, seedlings cannot survive in the shadow of other trees.

The Rain tree is intollerent of cold, frost may kill even large trees.

This tree likes sandy soil but will adapt to many soil types and PH levels

A wonderful shade tree that does well in public areas. Used mostly to shade coffee, tea, nutmeg, vanilla and other silvopastoral crops.

This tree grows all over the world from Venezuela, Columbia, American Samoa, Hawaii, Mariana Islands, Micronesia, Fiji, New Guinea, Philippines, and a number of Carribian Islands and Puerto Rico.

The flowers are pink and white flowering at the end of the dry season. Seed pods on the ground can stick to shoes and tires causing an annoyance but little hazard.

The root systems are shallow in clay and rocky soils, although roots will set deeper in sandy soil restricted root space may allow toppling of the tree. High winds can cause large branches to fail and trees to topple.

Salt Spray or wind blown salt may cause tip burning.

A full grown Samanea saman will need little pruning. Still should be monitored regularly in a living area for dying branches.

Yours in arboriculture,



Robert D. Brennan

Certified Arborist

FI-1059-A

Page 2

WWW.TropicalTreeGuy.com

Member:



AMERICAN SOCIETY of
CONSULTING ARBORISTS

Treeguru@mac.com

ROBERT D. BRENNAN

Arboricultural Consulting Inc.

3074 Kirk Street, Coconut Grove, Florida 33133 T 305 323 7342

May 10, 2013

To whom it may concern,

I have discovered a typographical error in my report in the letter dated 7/8/2012 where I reversed the measurements of the canopy of the Rain tree. While the correct directional measurements for north/south and east west are correct throughout the remainder of my report as well as in the narrative attached to the application, in an abundance of caution and in light of statements raised by the some of the opposition, I re-measured the north/south canopy and confirmed it was 135 feet.

Yours in arboriculture,



Robert D. Brennan

FI-1059-A

WWW.TropicalTreeGuy.com Member:  AMERICAN SOCIETY of
CONSULTING ARBORISTS

info@tropicaltreeguy.com