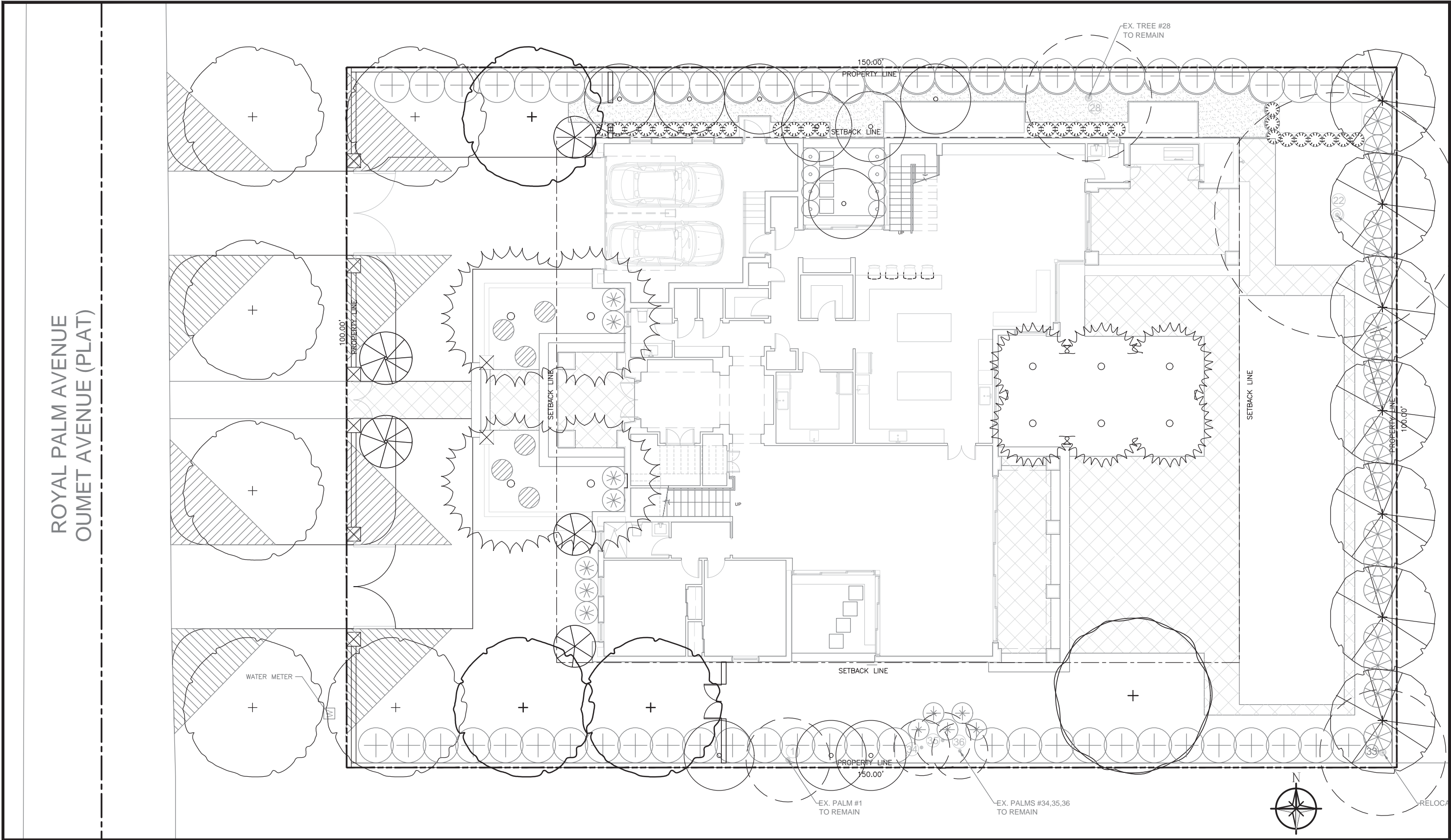


# FINK - RESIDENCE

3167 ROYAL PALM AVENUE,  
MIAMI BEACH, FL. - 33140



## FINAL SUBMITTAL INDEX

- TD-1 TREE DISPOSITION PLAN
- TR-1 TREE REPLACEMENT PLAN
- TM-1 TREE MITIGATION PLAN
- L-1 LANDSCAPE PLAN
- L-1 RENDERED LANDSCAPE PLAN
- L-2 PLANT LIST AND PLANTING DETAILS
- L-3 LANDSCAPE SPECIFICATION
- L-4 LANDSCAPE LIGHTING PLAN
- IB-1 IMAGE BOARD





# IMAGE BOARD

## TREES AND PALMS



Alexander Palm



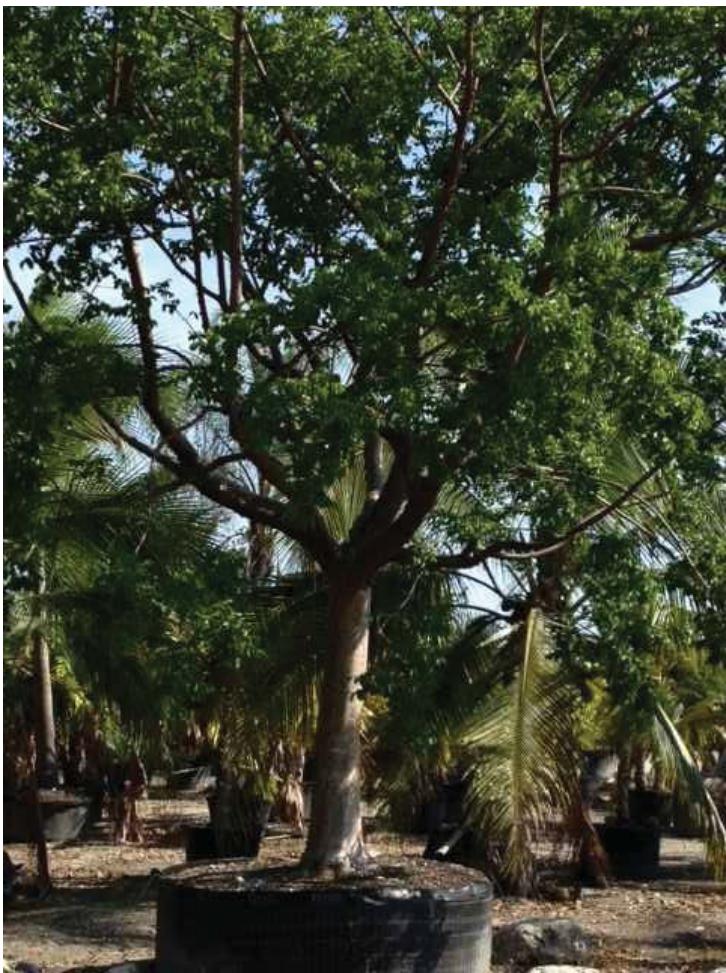
Coccothrinax Angentata



Phoenix Sylvestris



False Tamarind



Gumbo Limbo



Japanese Blueberry Cone



Japanase Privet



Satin Leaf Tree

## SHRUBS AND GROUNDCOVER



Green Shell Ginger



Green Buttonwood



Green Island Ficus



Wild Coffee



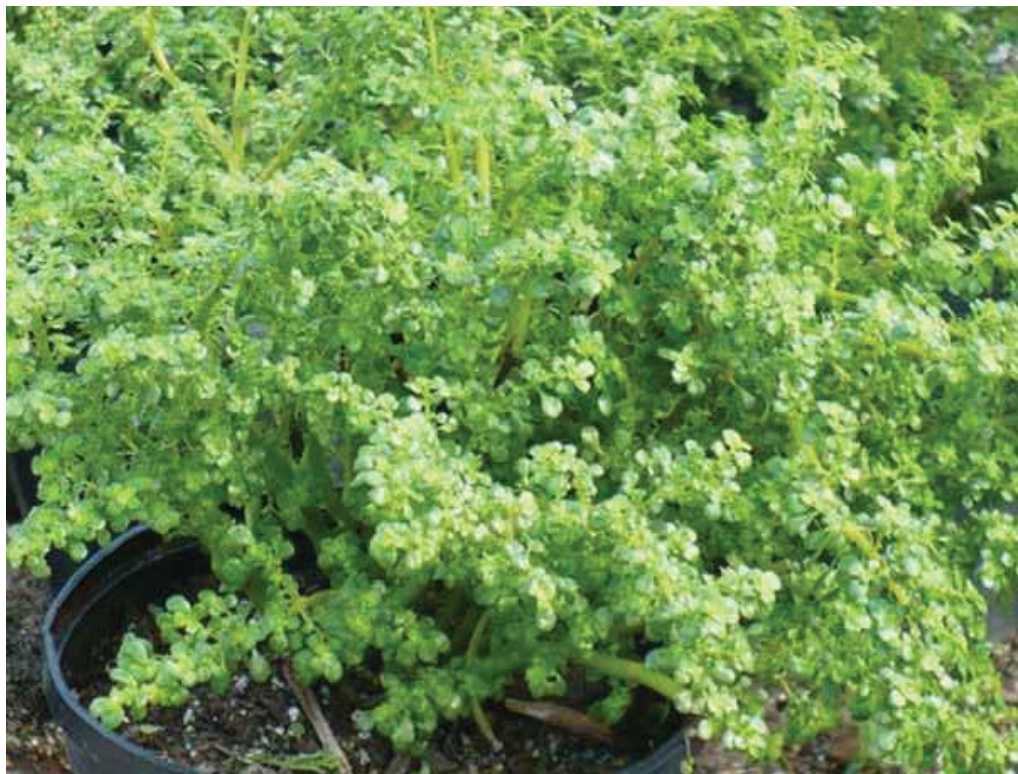
Monstera



Boston Fern



Philodendron"Rojo Congo"



Pilea Fern



Rhaps Excelsa



Vreisia Imperialis

IMAGE BOARD  
N.T.S.



**LEWIS AQUÍ**  
LANDSCAPE + ARCHITECTURAL DESIGN, LLC

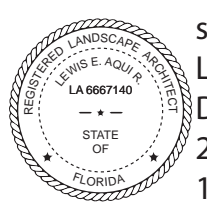
LC 26000479  
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**Z.W. JAROSZ ARCHITECT, P.A.**  
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PROJECT / SHEET TITLE

**FINK RESIDENCE**  
3167 Royal Palm Avenue,  
Miami Beach, FL 33140



Digitally signed by  
**LEWIS AQUÍ**  
Date: 2019.04.30 16:13:18 -04'00'  
LEWIS E. AQUÍ  
RLA # 666-7140

REVISIONS		
NO.	DATE	DESCRIPTION

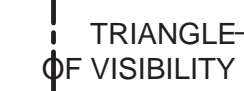
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CHECKED BY:	LA
SCALE:	AS SHOWN


SHEET

**IB-1**





**NOTE:**  
THERE ARE NO EXISTING OVERHEAD POWER LINES IN FRONT / ROW AREA  
ST = STREET TREE ( 5 PROVIDED )



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**NOTE:**  
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ST = STREET TREE ( 5 PROVIDED )



**LEWIS AQUI**  
LLC


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DATE:	04/08/19
DRAWN BY:	LG
CHECKED BY:	LA
SCALE:	AS SHOWN
SHEET	









LANDSCAPE SPECIFICATIONS

- 1.00 GENERAL
- 1.01 The Contractor is reminded that the General Conditions and / or Special Conditions of this contract govern the work of this section of the Specifications whether attached hereto or not. Subcontractors undertaking to perform work under this Section shall be made fully aware of these documents and of their responsibilities and obligations thereunder. In the event of any discrepancies between the drawings and specifications and the following 'Scope of Work', the latter shall prevail.
- 2.00 SCOPE OF WORK
- 2.01 The work of this Section shall include all labor, materials, equipment, appliances, and accessories necessary for the complete performance of all excavation, grading, planting and backfill work in accordance with these Specifications and the Contract Drawing. Without restricting the generality of the foregoing, the items listed below and similar items shown on the Contract Drawings shall constitute the work of this Section:

A. Finish grading and final site preparation of all areas to be landscaped.

B. Furnishing and incorporating fertilizer and other soil amendments.

C. Furnishing plant materials and grass materials and installing same.

D. Furnishing and placing 'Planting Mixture' and other miscellaneous items to complete the work.

E. Replacement of unsatisfactory plant material.

F. Clean-up.
- 3.00 SITE PREPARATION and SITE SITEWARDSHIP FOR SUSTAINABLE SITES
- 3.01 The Contractor shall provide finish grading and final preparation of all areas to be landscaped to within 6" of finish grade. This will require raking and pulverizing of all areas in order to crumble dirt, clogs and / or debris. The Landscape Contractor shall be responsible for finish grading, which is the top 6" of the site.
- 3.02 The Contractor must perform the following preventative measures for erosion controls during construction:

Stockpile and Protect disturbed Topsoil from erosion;

Control the path and velocity of runoff with silt fencing or equivalent;

Protect sewer inlets, streams, and lakes with straw bales or silt fencing;

Provide swales to divert surface water from hillsides, use tiers, erosion blankets, compost blankets, etc. on sloped areas.
- 3.03 Contractor must minimize disturbed area of site where site is not previously developed by following tree / plant protection plan and enforcing 'No Disturbance Zones' quarantined by use of Construction tape or Fencing.

When site is previously developed, Contractor must enforce Tree / Plant protection Plan and use Hay bales, silt fencing, etc. for erosion controls.
- 3.04 All Landscaping must be 24" from finish wall of structures for pest control measures.
- 4.00 MATERIALS
- 4.01 Plant materials shall be furnished by the Landscape Contractor and as indicated on the plans. All plant materials shall meet or exceed the following standards.

A. Plant species and sizes shall conform with plant list. Nomenclature shall conform to Standardized plant names, in accordance with the latest edition of the Florida Department of Agriculture's Grades and Standards for Nursery Plants.

B. All plants shall be nursery grown or as stipulated herein and shall comply with all required inspections, grading standards and plant regulations as set forth in the Florida Department of Agriculture 'Grades and Standards for Nursery Plants' , including revisions. Ensure that plant materials are shipped with tags stating the botanical and common name of the plant.

C. The minimum grade for all trees, palms, shrubs, and groundcovers shall be Florida No. 1 and shall meet or exceed the size and quality standards of the American Association of Nursery Stock, sponsored by the American Association of Nurserymen, latest addition, unless otherwise indicated and all plants shall be sound, healthy and vigorous, well-branched and densely foliated when in leaf. They shall have healthy, well developed root systems and shall be free of disease and insect pests, eggs or larvae. Florida Fancy material shall be provided where plant list specifies 'specimen'.

D. The determining measurements for trees shall be the height and spread, and shall be measured from the top of the plant to the root crown, not to include the immediate terminal growth. Their width shall be measured across the normal spread of the branches. Both measurements shall be made with the plants in their normal position.

E. Plants larger in size than those specified may be used with approval of the Landscape Architect. If the use of the larger plants is approved, the ball of earth or spread of roots shall be increased proportionately.

F. Container grown plants the same quality as balled and burlapped plants may be substituted in lieu thereof. Plants grown in containers shall be delivered and remain in the containers in a shady location until planted. Plants in containers shall be watered prior to transportation and shall be kept moist until planted. The container must be removed prior to planting, with care as not to injure the roots.

G. Grass materials shall consist of the following:

1. Sod: Solid sod shall be as indicated on the drawings. Sod must be strongly rooted and free of pernicious weeds. Mow to a height not to exceed 1 1/2" before lifting. Lifts shall have a uniform thickness of 1 inch to 1 1/2 inches. Sod containing nutgrass, lippia water sedge, dollar weed, or other common turfweed species (if applicable), will not be accepted.

2. Sodding installation :

a) Sodding shall be done as soon as practical following finish grading. Ground shall be covered with a 4" blanket of soil using specified 60/40 top soil mixture where necessary to create a 4" soil blanket. The day before sod installation, the contractor shall rake 50# Milorganite per 1000 sf of area to receive sod. Ground shall be leveled with the back of a rake and sod laid with joints closely butted so that no voids are visible, keeping surface of sod flush with the adjoining seeded areas and or pavements. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Hand tamp to ensure contact with subgrade, and water thoroughly with a fine spray immediately after laying.

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b) After sod is in place, it shall be top dressed with sufficient sharp, clean 60% sand/40% muck soil mix to fill all voids remaining and thoroughly watered to wash the top dressing into the sodded surface.

c) All sod areas shall then be rolled using a vibrating #1500 sod roller. The contractor shall apply a preemergent herbicide to all sodded areas.

d) It is the Landscape Contractor's responsibility to keep new sod properly watered until completion of the contract. All watering shall meet specifications according to 'Grades and Standards' Section 983.

H. Substitutions in plant species or size will be made only with prior written permission of the Landscape Architect.

I. If, in the opinion of the Landscape Architect, materials and /or work do not conform with the plans and specifications, it may be rejected and upon rejection, must be removed immediately from the site by the Contractor and replaced.

J. The Contractor shall be responsible for the certification and inspection of plant material that may be required by local, state, or federal authorities and shall bear the cost of the same, if any.

4.02 Materials used to install the job shall meet or exceed the following standards:

A. Planting soil mix to be used for 4" soil blankets and backfilling around trees shall be: similar to the existing soil in PH, texture, permeability and other characteristics. The use of structural soil is required in paved sites to provide adequate soil volumes for tree roots under pavement.

B. Fertilizers: Fertilizer shall be delivered mixed as specified in standard bags, sealed, and showing weight by analysis and name of manufacturer. Fertilizer shall be stored in weatherproof storage and in such a manner that its effectiveness will not be impaired.

C. Mulch: Mulch shall be shredded melaleuca, Grade B, clean, bright, and free of weeds, moss, sticks, and other debris. Install at 3" deep.

D. Water: All water required for the execution of the work shall be supplied at the site by the Owner.

5.00 INSTALLATION

5.01 The Planting operations used to install the job shall meet or exceed the following standards:

A. Excavation of Plant Pits: Plant pit excavations shall be roughly cylindrical in shape, with their side approximately vertical. Pit shall be excavated so that bottom of pit is same depth as root ball. Plants shall be centered in the hole, with the trunk location as shown in the plans. Holes for balled and burlapped plants shall be large enough to allow 12" minimum (depending on root ball size) of back fill around the sides of the root ball, and 12" of back fill beneath the root ball. In all cases the diameter of the plant hole shall be twice the diameter of the root ball. Where excess material has been excavated from the plant hole, the excavated material may be used to backfill to the proper level. Mix existing excavated material in 50% / 50% ratio with new planting soil mix. The Contractor, in excavation for plantings shall take care not to damage underground utilities or other sub-surface obstructions, and shall be held liable for their repair, if damaged.

B. Setting Plants: All trees shall be set so, that when settled, the top of the root ball will be flush with the surrounding area of the finish grade or slightly above finish grade. Each plant shall be planted in planting soil mix in the center of the pit. Shrubs shall be set flush with the surrounding finish grade of the planting area. The back fill shall be made with prepared planting in mixture as specified herein and shall be firmly rodded and watered, so that no air-pockets remain. The quantity of water applied immediately upon planting shall be sufficient to thoroughly moisten all of the backfilled earth. Plants shall be kept in a moistened condition the duration of the planting.

C. Staking and Guying: All trees shall be staked or guyed as shown in the details and according to the following specifications.

1. Use wide plastic, rubber or other flexible strapping materials to support the tree to stakes or ground anchors that will give as the tree moves in any direction up to 30 degrees. Use strapping material 'Arbor Tie' by Deep Root (800) 458-7668 dark green color, or approved equal. Do not use rope or wire through a hose. Use guy chords, hose or any other thin bracing or anchorage material which has a minimum 12" [300 mm] length of high visibility flagging tape secured to guys, midway between the tree and stakes for safety.

2. Stake trees larger than 1" [25 mm] diameter and smaller than 2" [50 mm] diameter with a 2" by 2" [50 by 50 mm] stake, set at least 2' [0/6 m] in ground and extending to the crown of the plant. Firmly fasten the plant to the stake with flexible strapping materials as noted above.

3. TREES OF 2 TO 3 1/2" [50 MM TO 90 MM] CALIPER: Stake all trees, other than palm trees, larger than 2" [50 mm] caliper and smaller than 3 1/2" [90 mm] caliper with two 2" by 4" [50 by 100 mm] stakes, 8' [2.4 m] long, set 2' [0.6 m] in the ground. Place the tree midway between the stakes and hold it firmly in place by flexible strapping materials as noted above.

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4.LARGE TREES: Guy all trees, other than palm trees, larger than 3 1/2" [90 mm] caliper, from at least three points, with flexible strapping materials as noted above. Anchor flexible strapping to 2" by 4" by 24" [50 by 100 by 600 mm] stakes, driven into the ground such that the top of the stake is at least 3" [75 mm] below the finished ground.

5.SPECIAL REQUIREMENTS FOR PALM TREES: Brace palms which are to be staked with three 2" by 4" [50 by 100 mm] wood braces, toe-nailed to cleats which are securely banded at two points to the palm, at a point one third the height of the trunk. Pad the trunk with five layers of burlap under the cleats. Place braces approximately 120 degrees apart and secure them underground by 2" by 4" by 12" [50 by 100 by 300 mm] stake pads. Paint wood flat dark green exterior paint, two coats.

6.TREE PROTECTION AND ROOT BARRIERS: Install tree barriers when called for in the Contract Documents or by the Landscape Architect to protect existing trees from damage during project construction. Place barricades at the drip line of the tree foliage or as far from the base of the tree trunk as possible. Barricades shall be able to withstand bumps by heavy equipment and trucks. Maintain barricades in good condition. When called for in the Contract Documents, install root barriers or fabrics in accordance with the details shown.

D. Pruning: All broken or damaged roots or branches shall be cut smoothly and the tops of all trees shall be pruned in a manner complying with standard horticultural practice. At the time pruning is completed, all remaining wood shall be alive.

E. Mulching: Within one week after planting, mulch material, consisting of shredded Eucalyptus or Pinebark shall be uniformly applied to a minimum loose thickness of 2 inches, over the entire area of the backfilled hole or bed. The mulch shall be maintained continuously in place until the time of final inspection, and must be a minimum of 2 inches thick to be accepted. Mulch shall not be placed against stems or trunks.

F.Fertilizing: Feeding of all trees and specimen shrubs shall be done with slow release, 'Woodace' Briquettes, 17 gram, tablet fertilizer, analysis 14-3-3, as per manufacturer's instructions. Fertilizing shall not occur until after flush of new growth.

6.00 MAINTENANCE

6.01 Maintenance shall include watering, weeding, mowing, fertilizing,treating, mulching, trimming,removal or replacement of dead or diseased plants and removal of refuse and debris on a regular basis so as to continue a healthy growing condition and present a neat and well-kept appearance at all times.

6.02 Shade trees shall be maintained at a minimum canopy diameter of thirty (30) feet in accordance with the American National Standards Institute, A-300 standards or similar accepted standards as published.

6.03 A landscape sight triangle shall be provided and visibility maintained as per local code requirements.

6.04 Plant material which block visibility shall be removed by the property owner or maintained so as to allow clear visibility of oncoming traffic.(pending public works department approval)

6.05 Landscaping shall be inspected periodically by the department to insure proper maintenance. The owner, tenant or other agent shall be notified in writing, of any areas which are not being properly maintained and shall provide corrective action within thirty (30) calendar days from the time of notification.

7.00 GUARANTEE

7.01 The Landscape Contractor shall guarantee and maintain all new field grown trees for a period of one year, and all field grown palms for a period of one year. All containerized trees, palms, shrubs and groundcovers for a period of 90 days, and all sod for a period of 90 days. The Landscape Contractor shall replace at the direction of the Landscape Architect all trees , shrubs, or groundcovers deemed by the Landscape Archtict to be unacceptable, due to death or damage; acts of God, Owner negligence and vandalism excepted.

7.02 New material used to replace material unacceptable to the Landscape Architect, shall be guaranteed for similar period from date of installation

8.00 FINAL INSPECTION AND ACCEPTANCE

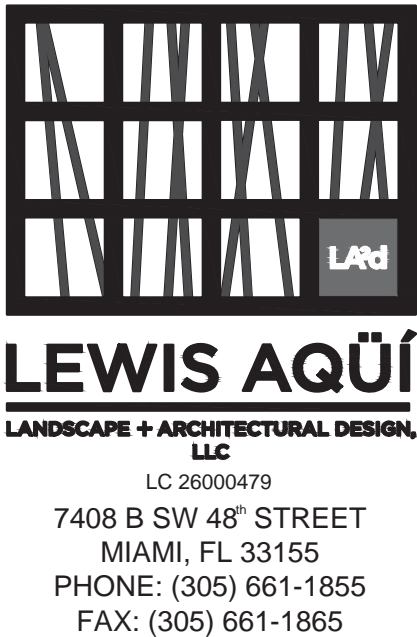
8.01 The Landscape Contractor shall advise the Landscape Architect in writing at the end of the guarantee period that the project is ready for final inspection. Only upon notification to the Landscape Architect by the Landscape Contractor in writing and subsequent inspection attended by the Landscape Contractor shall the requirements of the guarantee be met.

9.00 CLEAN-UP

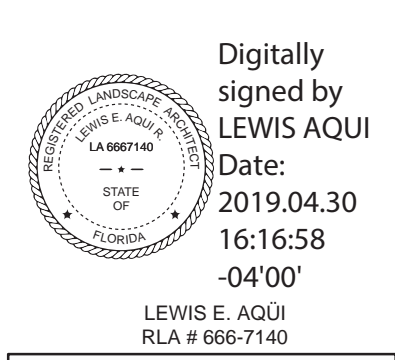
9.01 Upon completion of all work under this section, and intermittently as required, the Landscape Contractor shall clear the site of all debris, superfluous material and all equipment to the satisfaction of the Landscape Architect

10.00 All plant material is subject to the specifications of Florida's Grades and Standards, Revised unless otherwise noted. Compliance with ANSI A300, part 5, 6 &amp; 8 and other relevant ANSI A300 standards shall be adhered to in the strictest sense of the standard language. All work shall be in compliance with ANSI Z133.1 and other industry safety standards. Any questions or concerns regarding the specifications should be immediately addressed in writing to the landscape architect of record or the owner's representative. Without such questions or concerns it is assumed and accepted that the landscape contractor has a full and complete understanding of all standards which may affect the performance in the execution of these specifications. Landscape contractor is responsible for the selection of plant material that fits the grade specified in this document. The plant material shall be considered accepted by the landscape contractor at the exact time of installation.

11.00 End



FINK RESIDENCE  
3167 Royal Palm Avenue,  
Miami Beach, FL. 33140



REVISIONS		
NO.	DATE	DESCRIPTION

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CHECKED BY:		LA
SCALE:		AS SHOWN
SHEET		

LANDSCAPE SPECIFICATION  
N.T.S.



This site plan illustrates a residential development with a central building complex, parking areas, and extensive landscaping. Key features include:

- Property Lines:** The site is bounded by a 150.00' front and rear property line and a 100.00' side property line.
- Setbacks:** Various setbacks are indicated, including a 30'-0" required setback on the left, a 15'-0" setback on the bottom left, and a 22'-6" rear setback for a future generator.
- Landscaping:** The plan shows numerous trees, including existing palms (#1, #22, #34, #35, #36) and a relocated tree (#33). There are also areas for future landscaping, such as a 22'-6" rear setback area for a future generator.
- Building and Parking:** The central building complex includes a parking area with two cars shown. The building footprint is surrounded by a setback line.
- Other Features:** The plan includes a water meter, a pool equipment area, and a future generator area.

3652

★★★★★  
“...As we are replacing all of the older lights, this has better quality and an improved lighting affect... Very good build quality, and nice brightness to the LEDs...”

- Arbycat66 | Bernville, PA | 15484CBB

100

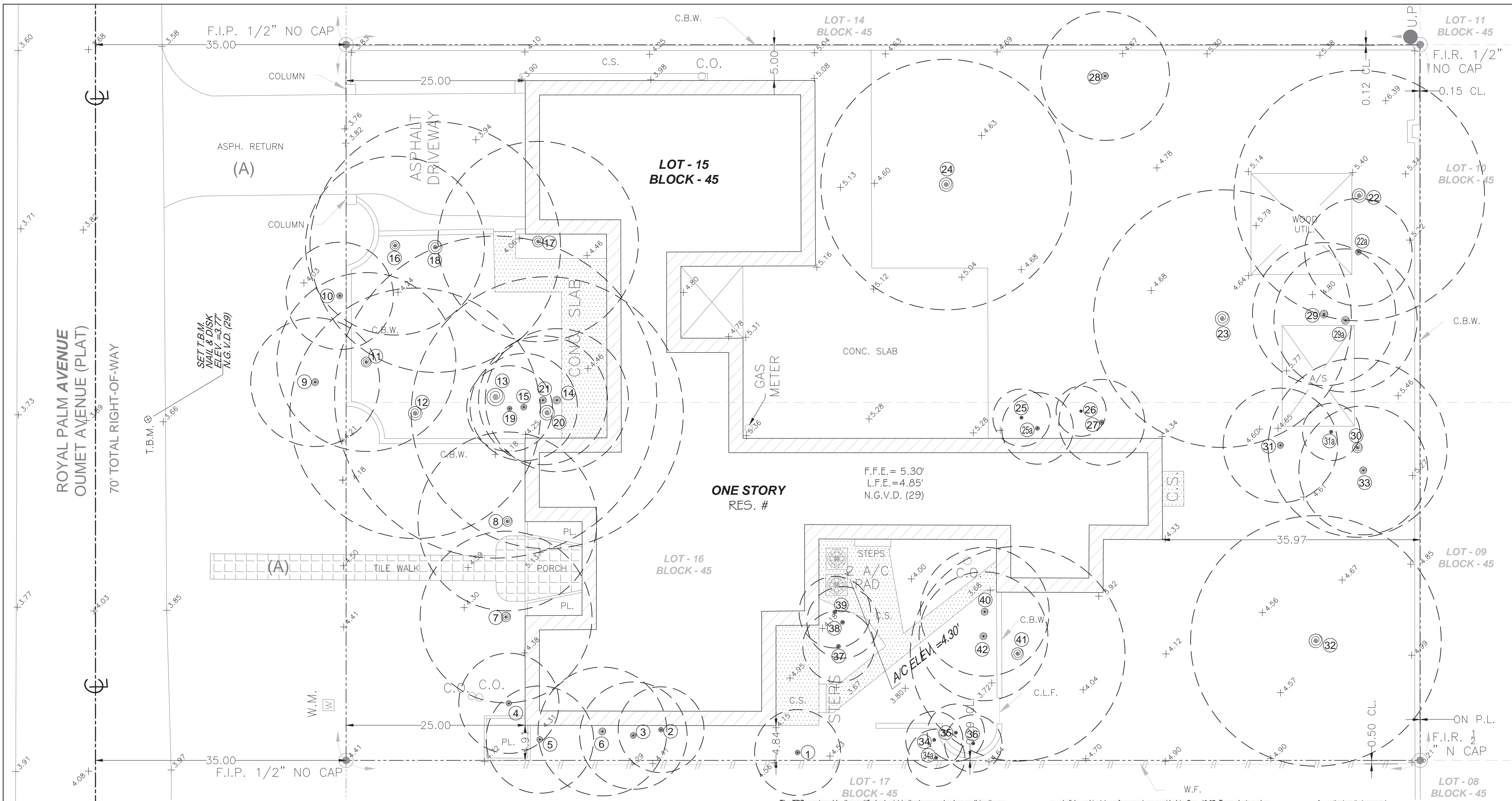
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TREE DISPOSITION CHART							
Scientific name	Common name	DBH	Ht	Canopy	Condition	TPZ	Disposition
1. Ptychosperma elegans	Solitaire palm	4"	28'	12'	Good	3'	Remove
2. Ptychosperma elegans	Solitaire palm	4"	20'	15'	Good	3'	Remove
3. Ptychosperma elegans	Solitaire palm	4"	20'	15'	Good	3'	Remove
4. Dypsis lutescens	Areca palm	12"	14'	14'	Poor	Remove	X
5. Pouteria campechiana	Canistel	8"	28'	15'	Moderate	5'	Remove
6. Ptychosperma elegans	Solitaire palm	8"	35'	18'	Good	3'	Remove
7. Dypsis lutescens	Areca palm	32"	15'	24'	Good	3'	Remove
8. Dypsis lutescens	Areca palm	46"	24'	25'	Moderate	3'	Remove
9. Dypsis lutescens	Areca palm	16"	10'	18'	Moderate	3'	Remove
10. Dypsis lutescens	Areca palm	6"	9'	15'	Moderate	3'	Remove
11. Ficus aurea	Strangler fig	6"	25'	25'	Moderate	4'	Remove
12. Persea americana	Avocado	24"	25'	35'	Moderate	12'	Remove
13. Persea americana	Avocado	26"	35'	45'	Moderate	12'	Remove
14. Ptychosperma elegans	Solitaire palm	9"	35'	20'	Good	3'	Remove
15. Ptychosperma elegans	Solitaire palm	6"	28'	15'	Good	3'	Remove
16. Persea americana	Avocado	10"	25'	25'	Poor	Remove	X
17. Persea americana	Avocado	6"	25'	28'	Poor	Remove	X
18. Mangifera indica	Mango	14"	35'	35'	Moderate	8'	Remove
19. Ptychosperma elegans	Solitaire palm	4"	28'	12'	Good	3'	Remove
20. Persea americana	Avocado	10"	30'	38'	Moderate	8'	Remove
21. Persea americana	Avocado	5"	35'	18'	Poor	Remove	X
22. Ficus aurea	Strangler fig	6"	20'	35'	Moderate	5'	Remove
23. Persea americana	Avocado	3"	20'	15'	Moderate	4'	Remove
24. Mangifera indica	Mango	23"	30'	36'	Poor	Remove	X
25. Mangifera indica	Mango	23"	35'	35'	Good	12'	Remove
26. Ptychosperma elegans	Solitaire palm	3"	28'	8'	Good	3'	Remove
27. Ptychosperma elegans	Solitaire palm	6"	22'	10'	Good	3'	Remove
28. Ptychosperma elegans	Solitaire palm	3"	24'	7'	Good	3'	Remove
29. Pseudobombax ellipticum	Shaving brush tree	3"	28'	12'	Good	3'	Remove
30. Spathodea campanulata	African tulip tree	8"	42'	20'	Poor	Remove	X
31. Swietenia mahagonia	Mahogany	3"	15'	20'	Poor	Remove	X
32. Dracaena marginata	Dragon tree	20"	45'	25'	Poor	Remove	X
33. Dracaena marginata	Dragon tree	35"	18'	16'	Good	3'	Remove
34. Dracaena marginata	Dragon tree	4"	10'	8'	Good	3'	Remove
35. Ravelia madagascariensis	Traveller's tree	150"	30'	35'	Good	4'	Remove
36. Sabal palmetto	Sabal palm	18"	7'	18'	Good	3'	Relocate
37. Ptychosperma elegans	Solitaire palm	3"	30'	8'	Good	3'	Remain
38. Ptychosperma elegans	Solitaire palm	3"	18'	8'	Poor	Remove	X
39. Ptychosperma elegans	Solitaire palm	4"	30'	8'	Good	3'	Remain
40. Ptychosperma elegans	Solitaire palm	4"	28'	10'	Good	3'	Remove
41. Nerium oleander	Oleander	32"	18'	30'	Poor	Remove	X
42. Clerodendrum quadriloculare	Starburst	3"	18'	18'	Poor	Remove	X

TREE MITIGATION CALCULATION				
Total SF of canopy to be removed		4,628 SF		
Total SF Canopy Provided		4,800 SF		
Total SF Canopy Surplus		172 SF		
Tree Mitigation Calculation Chart				
Proposed Qty	Tree Type	Min. Hgt	Canopy Credit	Total Credit
7	Category 1 Tree	12' OA Hgt.	300 SF	2,100 SF
10	Category 2 Tree	10' OA Hgt.	150 SF	1,500 SF
2	Category 3 Tree	8' OA Hgt.	100 SF	200 SF
20	Category 4 Palm	6' CT	50 SF	1,000 SF
			<b>Total SF provided</b>	<b>4,800 SF</b>
NOTES				
1. Prior to demolition permit approval, please schedule a site tree inventory/landscape inspection. Contact: ENVIRONMENT AND SUSTAINABILITY DEPT. / URBAN FORESTRY DIVISION 305/673-7722 Tree protection fencing shall be installed by the time site inspection is performed.				
2. Care shall be taken to avoid utility or construction trenching through existing tree or palm drip lines of trees slated to remain in place or be relocated. If construction requires the cutting of any roots with a diameter of 2" or greater, roots should be cleanly cut with a sharp tool, as directed by an ISA Certified Arborist, and in accordance with the ANSI A-300 standards. Cut roots should be immediately covered with soil to prevent drying. Roots should not be torn or broken by heavy equipment, and not shredded, ragged, or broken roots ends should be left. The City urban forester shall be notified in writing and/or consulted prior to any root pruning taking place"				
3. The tree protection zone shall be encircled with a 4' high chain link fence supported by metal poles to support the fence every 6 feet. There shall be signage on the fence in English and Spanish not allowing storage of any materials, change of grade or movement of equipment. This fence shall be inspected regularly by the contractor to ensure compliance.				
NOTE:				
CANOPY MITIGATION CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE TO CITY OF LOS ANGELES ENVIRONMENT/REPORT AND IN ACCORDANCE TO CITY OF LOS ANGELES DIVISION 2 TREE PRESERVATION AND PROTECTION. CALCULATIONS ARE SUBJECT TO CHANGE AT THE DISCRETION OF THE CITY OF LOS ANGELES AT THE TIME OF PLANS REVIEW.				

**NOTE:**  
CANOPY MITIGATION CALCULATIONS HAVE BEEN PREPARED BASED ON THE EXISTING TREE INVENTORY/REPORT AND IN ACCORDANCE TO CITY OF MIAMI BEACH CHAPTER 46 ENVIRONMENT DIVISION 2 TREE PRESERVATION AND PROTECTION ORDINANCE. HOWEVER, SUCH CALCULATIONS ARE SUBJECT TO CHANGE AT THE DISCRETION OF THE REGULATORY AGENCY (URBAN FORESTRY) AT THE TIME OF PLANS REVIEW.

The TPZs assigned by the certified arborist to the trees and palms on this site are sufficient to maintain CRZs for these trees as well as the TPZs.

- The TPZ measurement can also be utilized for the root pruning radius if any trees or palms in good or moderate condition on this site are scheduled to be relocated.
- I recommend the removal of trees and palms that I rated to be in poor condition.
- The canopy measurement is the diameter of the canopy measured in one direction.
- The TPZ measurement is a radius measured from the outside of the trunk.
- The column "Ht/CI" denotes the approximate overall height of trees, or the clear trunk/gray wood measurement for palms.
- Many of the palm DBH measurements include two, three, or more closely grown trunks. I am grouping these individual palms as a single palm because they cannot be relocated separately.
- A "0" in the DBH column denotes no trunk at 4.5 feet above grade.

ANSI A300 (Part 5) - 2005, Annex A  
Management report information  
Examples of suitability ratings  
**Good:** These are trees with good health and structural stability that have the potential for longevity at the site.  
**Moderate:** Trees in this category have fair health and/or structural defects that may be abated with treatment. Trees in this category require more intense management and monitoring, and may have shorter life-spans than those in the 'good' category.  
**Poor:** Trees in this category are in poor health or have significant defect in its structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas.

**City of Miami Beach Sec. 46-62**  
1. Tree protection requirements, in general, and during construction  
General: All reasonable steps shall be taken to prevent the destruction or damaging of trees for which no tree work permit has been issued during site development and construction on private

a. shall be subject to enforcement as provided in Sec. 46-67. Trees destroyed or incurring major damage must be replaced by trees of equal environmental value, as specified by the **Environment and Sustainability Department** Public Works Department, prior to the issuance of the certificate of occupancy or certificate of use, unless removal of the trees has been authorized pursuant to a tree work permit. Tree protection zones must be established for all trees that remain in place on site and for any trees relocated within or to the site. When proposed development activities may damage the root systems or canopies of trees to be retained or relocated on site, alternatives to the proposed activities, or effective protective measures, shall be identified and used.

b. Permit/Construction drawings. All permit and construction drawings of the site shall show the tree protection zones, as prescribed by the **Environment and Sustainability Department** Public Works Department, as shaded areas that are accurately drawn to scale and labeled as such on the drawings. The tree protection zones shall be shown on all drawings that include any underground utility installations, including but not limited to, irrigation, plumbing, electrical, telecommunication or streetlight lines.

The tree protection zones shall be shown on all drawings that include structural installations that will require excavation(s), and for above-ground installations that may include, but is not limited to, such as walkways, street lights, overhead wires or other types of infrastructure.

2. Tree protection specifications  
The following tree protection specifications must be adhered to, in general, and as a condition of approval of the site plan for any project. The Urban Forester may require supplemental protection measures to ensure the protection of trees. The Urban Forester and higher designations shall have the authority to enter the subject property to ensure compliance with required tree protection measures.

a. Protective Barriers  
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. In situations where trees have been transplanted to the project site, the protective fencing shall be placed no closer to the tree than a point one to two feet outside the root ball, or at the drip line, whichever is greater. The fenced tree protection zones shall be extended where necessary to protect tree canopies and roots. If trees are to be preserved in place and root pruning is required to accommodate new construction, the root pruning locations shall be identified and approved by the **Environment and Sustainability Department** Public Works Department, and fencing shall be installed one (1) to two (2) feet beyond the edge of the root ball. The installation of the fencing shall be coordinated with any phased root pruning that must occur. Tree maintenance measures must be in place prior to any root pruning or transplanting.

Timing and Duration. 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. Protective barriers shall be maintained in place until development is completed, and shall not be removed until the **Environment and Sustainability Department** Public Works Department inspects the site and

i. authorizes their removal.

b. Barrier Specifications. Sturdy temporary barriers shall be installed around all tree protection zones. Barriers shall be a minimum of four feet high, and shall be constructed of continuous chain link fence with metal posts at 8-foot spacing, or of two-by-four-inch posts with three equally spaced two-by-four inch rails. Posts may be shifted to avoid roots.

b. Activities Within Tree Protection Zones Enclosed by Protective Barriers  
i. Understory plants within areas surrounded by protective barriers shall be protected.  
ii. No oil, fuel, equipment, building materials, building debris, or any other material shall be placed within the areas surrounded by protective barriers.

c. No disposal of any waste material such as paints, oils, solvents, asphalt, concrete, mortar, or any other material shall occur within the areas surrounded by protective barriers.

d. Natural grade shall be maintained on areas surrounded by protective barriers. In the event that the natural grade of the site is changed as a result of site development such that the safety of the line may be endangered, tree wells or retaining walls are required.

e. Only hand digging and grading activities will be permitted within the tree protection zone. All surrounding areas must be graded to a point that meets the outside of the tree protection zone.

f. Underground utility lines, including, but not limited to, irrigation, plumbing, electrical, or telecommunication lines, shall be placed outside the areas enclosed by protective barriers. If such placement is not possible, disturbance and root damage shall be minimized by using techniques such as tunneling, hand digging, excavation with an air spade, or the use of overhead utility lines.

g. No vehicles or equipment shall be permitted within areas surrounded by protective barriers.

c. Fences, walkways and walls shall be constructed to avoid disturbance to any tree to remain in place onsite in the vicinity of construction activities. Post holes and trenches located close to trees shall be dug by hand and adjusted as necessary, using techniques to avoid damage to major roots system.

d. No attachments, signs, chains, ropes or wires other than those of a protective or non-damaging nature shall be attached to any trees, all public, owned or controlled property, in general, or during any proposed site development or construction.

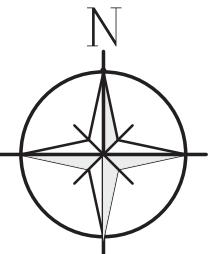
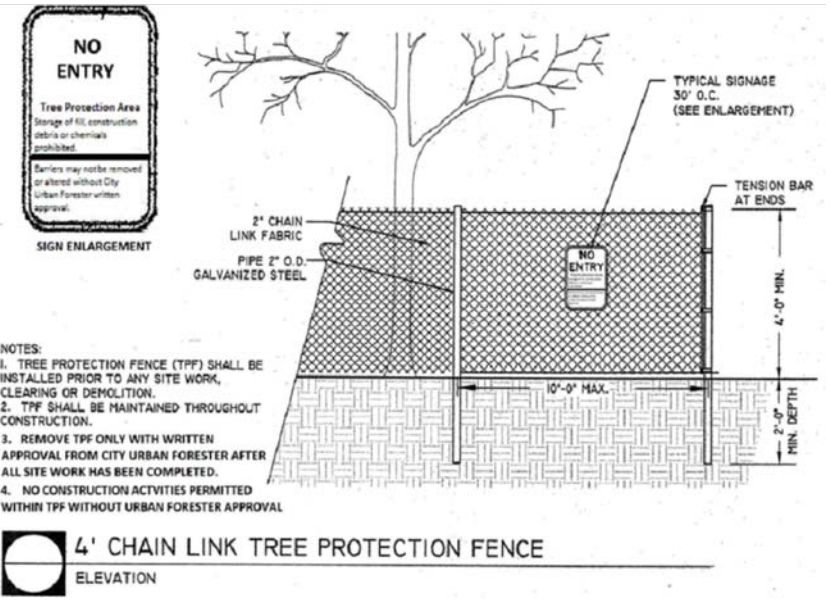
### Critical Root Zone and Tree Protection Zone

ANSI A 300 (Part 5) - 2012 Management of Trees and Shrubs during Site Planning, Site Development and Construction  
Critical Root Zone (CRZ): The minimum volume of roots necessary to have for tree health and stability.

Tree Protection Zone (TPZ): The area surrounding a tree defined by a specified distance, in which excavation and other construction - related activities should be avoided. The TPZ is variable depending on species, factors, age and health of the plant, soil conditions, and proposed construction. The zone may be accomplished by physical barriers or soil protection layers or treatments.

ANSI A300 (Part 5) - 2012 54.7

- A tree protection zone (TPZ) shall be delineated around all trees to be protected during a project
- 54.7.1 The area and dimensions of the TPZ should be calculated on the basis of species tolerance, age, and health, root structure, rooting depth and soil conditions.



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3326 MARY STREET, SUITE 500  
COCONUT GROVE, FLORIDA 33133  
305.446.0888 WWW.JAROSZARCH.COM

PROJECT / SHEET TITLE

**FINK RESIDENCE**  
3167 Royal Palm Avenue,  
Miami Beach, FL 33140

Digitally signed by LEWIS AQUI  
Date: 2019.04.30 16:19:10 -0400  
LEWIS E. AQUI  
RLA # 666-7140

REVISIONS		
NO.	DATE	DESCRIPTION

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DATE:	04/08/19
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SHEET	





Tree Mitigation Calculation			
Total SF of canopy to be removed	4,628 SF		
Total SF Canopy Provided	4,800 SF		
Total SF Canopy Surplus	172 SF		
Tree Mitigation Calculation Chart			
Proposed Qty	Tree Type	Min. Hgt	Canopy Credit
	7 Category 1 Tree	12' OA Hgt.	300 SF
	10 Category 2 Tree	10' OA Hgt.	150 SF
	2 Category 3 Tree	8' OA Hgt	100 SF
	20 Category 4 Palm	6' CT	50 SF
			1000 SF
			<b>Total SF provided 4,800 SF</b>

TREES AND PALMS										
NEW / EXISTING	SYM	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED HT. / SPECS	CALIPER INSTALLED (DBH)	HEIGHT AT MATURITY	CANOPY DIAMETER AT MATURITY	NATIVE	
NEW	BS	1	Bursera simaruba	Gumbo Limbo	F.G. 16" - 18' HT / 12" - 14' Spr. / Single Leader	3"	30'	30'	Yes	
NEW	CA	6	Coccothrinax argentea	Florida Silver Thatch Palm	5" - 8" OA. HT.	4"	15'-20'	10'	Yes	
NEW	CO	7	Chrysophyllum oliviforme	Satin Leaf Tree	14" OA. HT. Single Leader/Tree Form/ 6' Srr	3"	25'	15'-20'	Yes	
NEW	ED	3	Elaeocarpus decipiens	Japanese "Blueberry" Cones	45 Gal. / 10'-12' HT/ Full to Base/Single Leader	2"-3"	20'-25'	10'-15'	No	
NEW	LJ	6	Lysiloma bahamensis	False Tamarind	16" OA. HT. Single Leader / 6" - 8" spr	3"	30'	30'	Yes	
NEW	LB	2	Ligustrum japonicum	Japanese Prmet	45 Gal. 10" - 12" HT. Full to Base	2"	20" - 25"	N/A	No	
NEW	PE	10	Pychosperma elegans	Alexander Palm	F.G. 10' OA. HT./Single/8" CT/Matched	3'-4"	35'	25'	No	
NEW	FS	4	Phoenix sylvestris	Date Palm Hybrids	F.G. 16" DB CT.	10"	40'	20'	No	



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 LANDSCAPE + ARCHITECTURAL DESIGN, LLC

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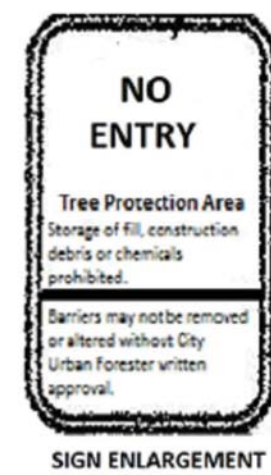
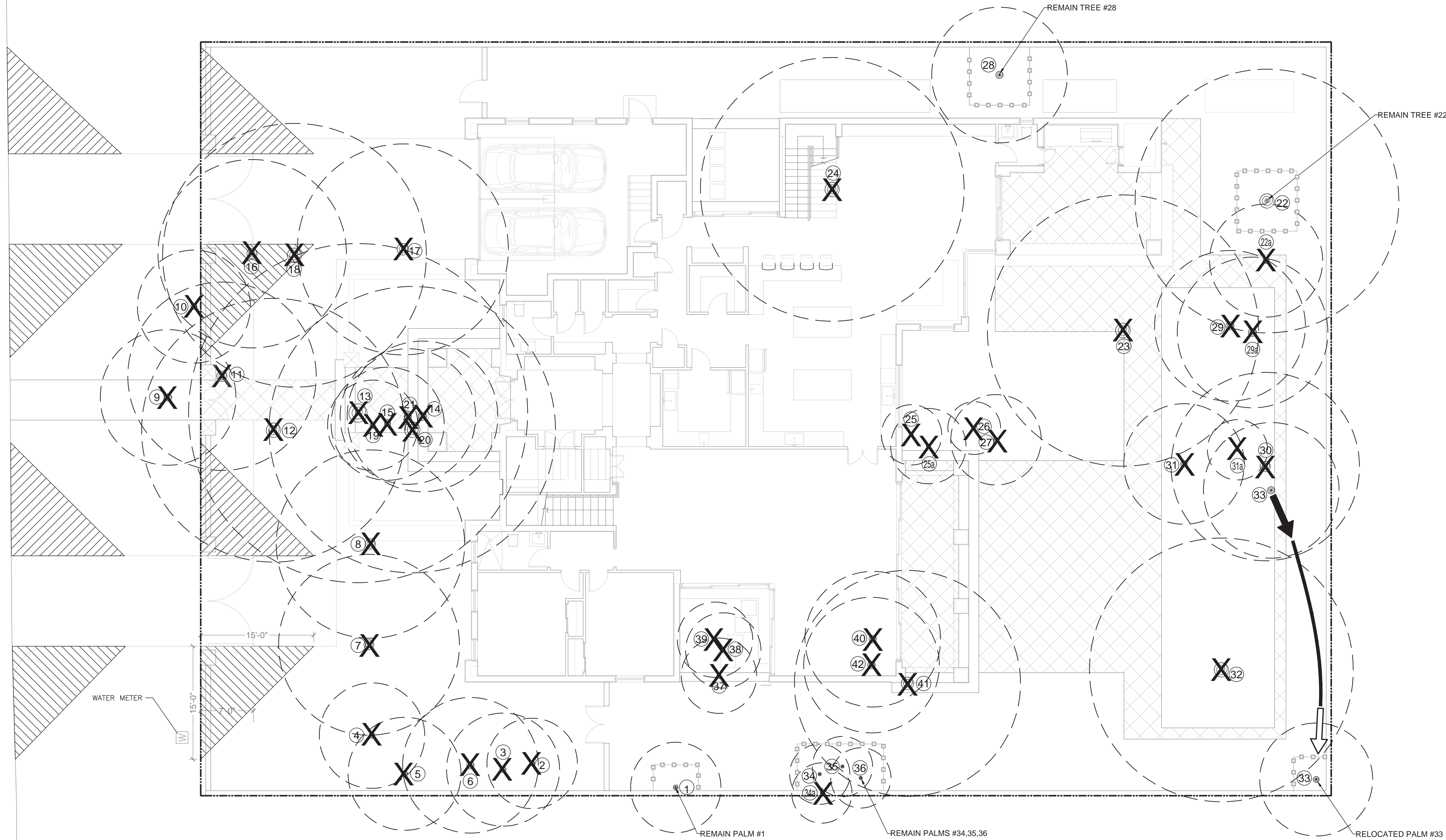
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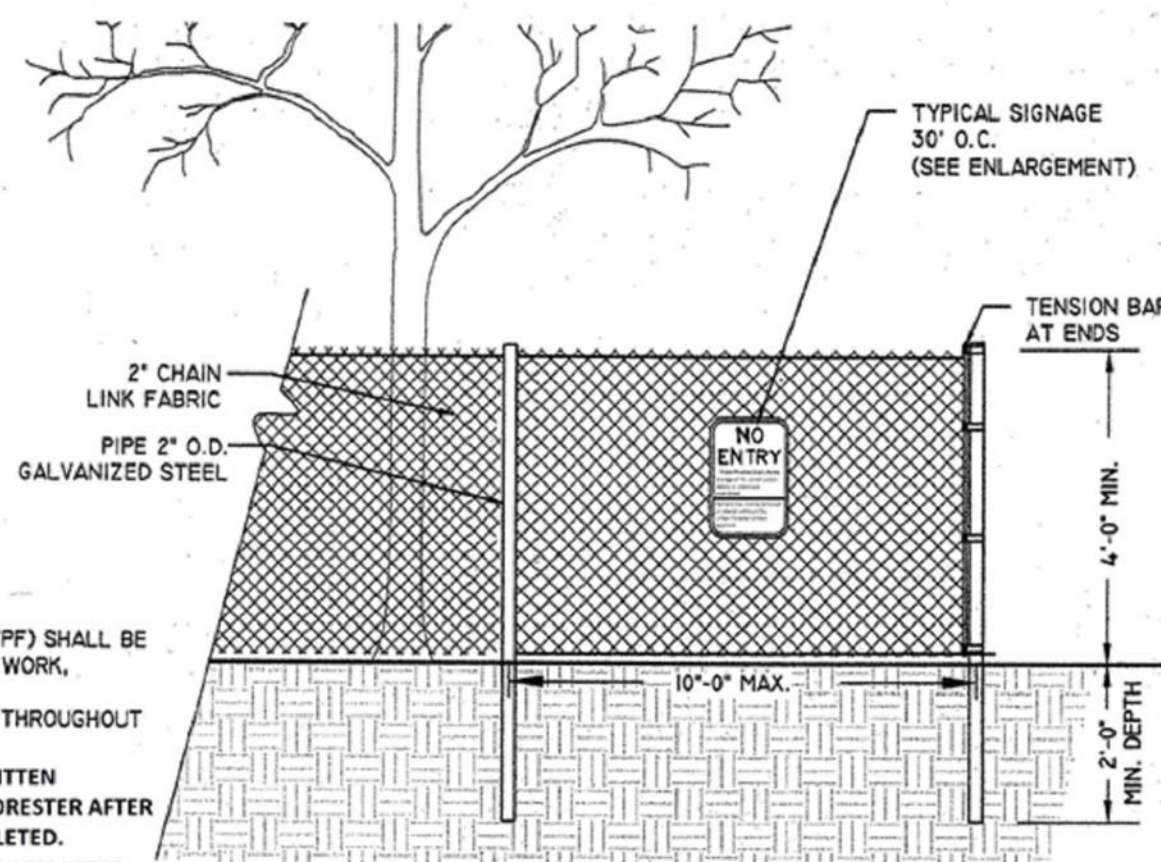


ROYAL PALM AVENUE  
OUMET AVENUE (PLAT)

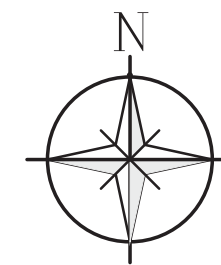


- NOTES:
1. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
  2. TPF SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
  3. REMOVE TPF ONLY WITH WRITTEN APPROVAL FROM CITY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
  4. NO CONSTRUCTION ACTIVITIES PERMITTED WITHIN TPF WITHOUT URBAN FORESTER APPROVAL

4' CHAIN LINK TREE PROTECTION FENCE  
ELEVATION



- LEGEND:
- X: TREES TO BE REMOVED
  - TREES TO BE RELOCATED
  - TREES TO REMAIN
  - TREE PROTECTION BARRIER



TREE REPLACEMENT & TREE  
PROTECTION PLAN  
SCALE: 1/8" = 1'-0"

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