

COMMON NAME

15-Mar-16

NUM SYM

1 SM MAHOGANY

4 SM MAHOGANY

5 PAN SCREWPINE

6 BA SCHEFFLERA

10 SP SABAL PALM

11 SP SABAL PALM

12 SP SABAL PALM

13 SP SABAL PALM

16 SP SABAL PALM

17 SP SABAL PALM

18 SP SABAL PALM

22 | THR THATCH PALM

25 PE SOLITAIRE PALM

28 PE SOLITAIRE PALM

29 SP SABAL PALM

0 30 PE SOLITAIRE PALM

31 PE SOLITAIRE PALM

32 PE SOLITAIRE PALM

27 WR WASHINGTONIA PALI

Ptychosperma elegans

Ptychosperma elegans

4 REMOVE 50 50

25 8 4 REMOVE 50 50

23 THR

TH PINK TABEBUIA

SCHEFFLERA

BA SCHEFFLERA

15 CV BOTTLEBRUSH

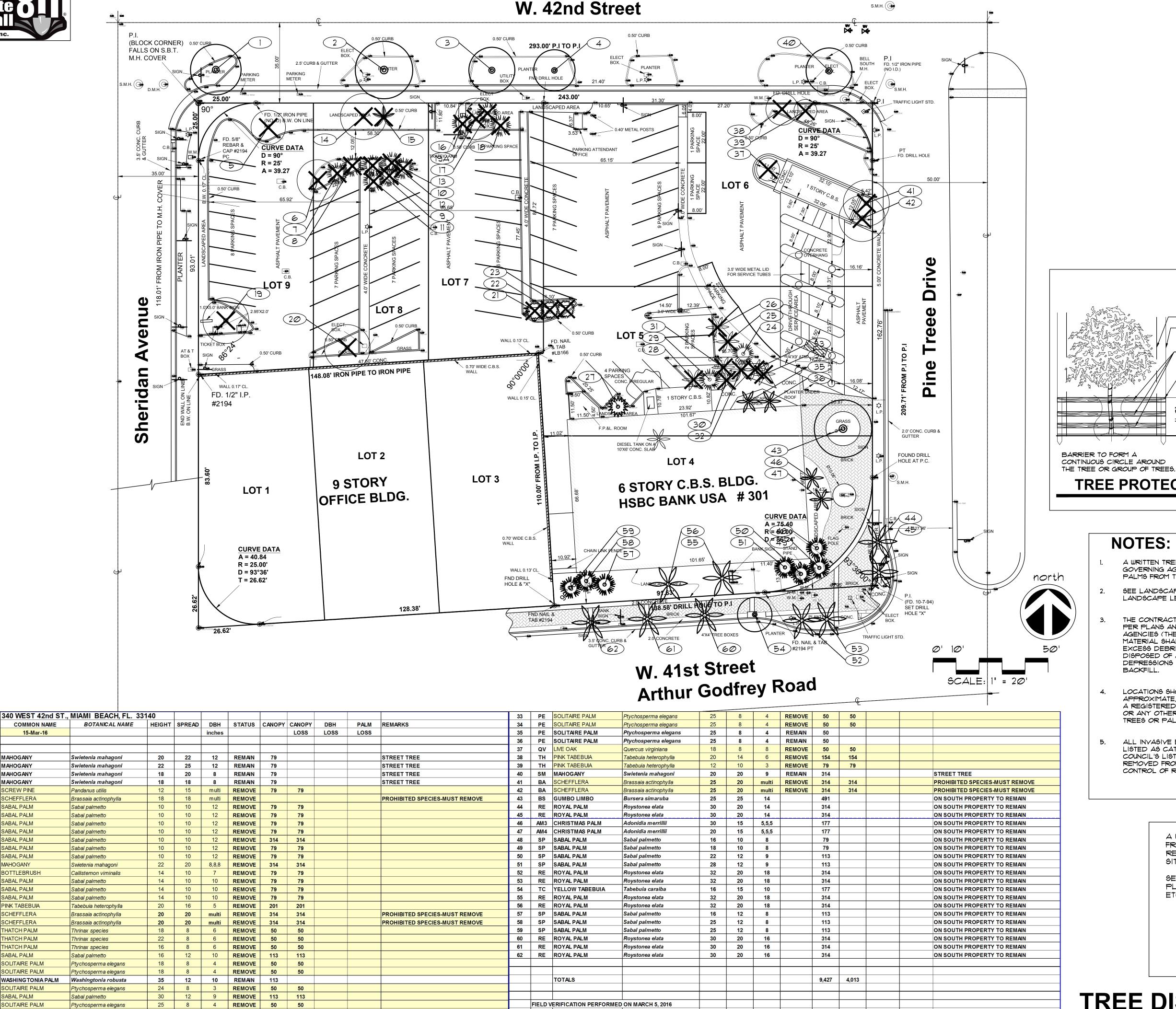
SM MAHOGANY

SM MAHOGANY

SP SABAL PALM

SP SABAL PALM

SP SABAL PALM



MIAMI BEACH MIAMI BEACH

340 WEST 42ND STREET MIAMI BEACH, FLORIDA CATON OWNER, LLC 3921 ALTON RD SUITE 138, MIAMI BEACH, FL 33140

ARCHITECT OF RECORD **ARQUITECTONICA** Miami, Florida 33133 F 305.372.1175 www.arquitectonica.com STRUCTURAL ENGINEER: M.E.P. ENGINEER: MIAMI, FL 33122

MIAMI FL 33133

LANDSCAPE ARCHITECT

MIAMI FL 33144

CIVIL ENGINEER:

CONSULTANT:

CONSULTANT:

LIGHTING CONSULTANT:

DURATION OF THE PROJECT. CONTRACTOR SHALL TAKE EXTRA CARE DURING EARTHWORK AND UTILITY OPERATIONS TO PROTECT ALL EXISTING TREES - AND SHALL BE RESPONSIBLE TO REPLACE ANY TREES

FENCE TO EXTEND TO THE EDGE OF THE

THREE ROWS OF SPLIT RAIL FENCING $(2" \times 4")$ TO BE PLACED AROUND ALL EXISTING TREES

CONTRACTOR TO INSTALL PROTECTIVE FENCE BARRIER AROUND ALL EXISTING TREES TO REMAIN- AT THE START OF THE PROJECT-

FENCE TO REMAIN IN PLACE THROUGHOUT THE

DAMAGED DURING CONSTRUCTION.

WOODEN STAKES (2" \times 4" \times 5' MIN.) ON 5' CENTERS - TO SUPPORT SPLIT RAIL FENCING.

OR MORE WHERE POSSIBLE.

DRIPLINE

TO REMAIN.

TREE PROTECTION DETAIL

NOTES:

- A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL OF ANY TREES OR PALMS FROM THE SITE.
- SEE LANDSCAPE PLANS FOR PROPOSED LANDSCAPE PLANTINGS, LANDSCAPE LEGEND, PLANTLIST, SPECIFICATIONS, DETAILS, ETC.
- THE CONTRACTOR SHALL REMOVE ALL TREES AND HEDGES AS PER PLANS AND AS APPROVED BY THE LOCAL GOVERNING AGENCIES (THE CITY OF MIAMI BEACH). TREE, PALM AND HEDGE MATERIAL SHALL INCLUDE ALL TRUNKS, STUMPS AND ROOTS. ALL EXCESS DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED SITE. ALL HOLES AND DEPRESSIONS SHALL BE BACKFILLED WITH CLEAN, APPROVED
- LOCATIONS SHOWN FOR THE EXISTING TREES AND PALMS ARE APPROXIMATE, EXACT LOCATIONS ARE TO BE FIELD VERIFIED BY A REGISTERED LAND SURVEYOR (RLS) PRIOR TO ANY PAVING OR ANY OTHER SUCH WORK WHICH WILL BE IMPACTED BY ANY TREES OR PALMS TO REMAIN.
- ALL INVASIVE EXOTIC VEGETATION AND ANY ANY OTHER PLANTS LISTED AS CATEGORY I, ON THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF FLORIDA'S MOST INVASIVE SPECIES SHALL BE REMOVED FROM THE SITE AND MAINTENANCE SHALL GUARANTEE CONTROL OF RE-INVASION.

A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM THE CITY OF MIAMI BEACH PRIOR TO REMOVAL OF ANY TREES OR PALMS FROM THIS

SEE LANDSCAPE PLANS FOR LANDSCAPE PLANTINGS PLANTLIST, SPECIFICATIONS, DETAILS,

TREE DISPOSITION PLAN

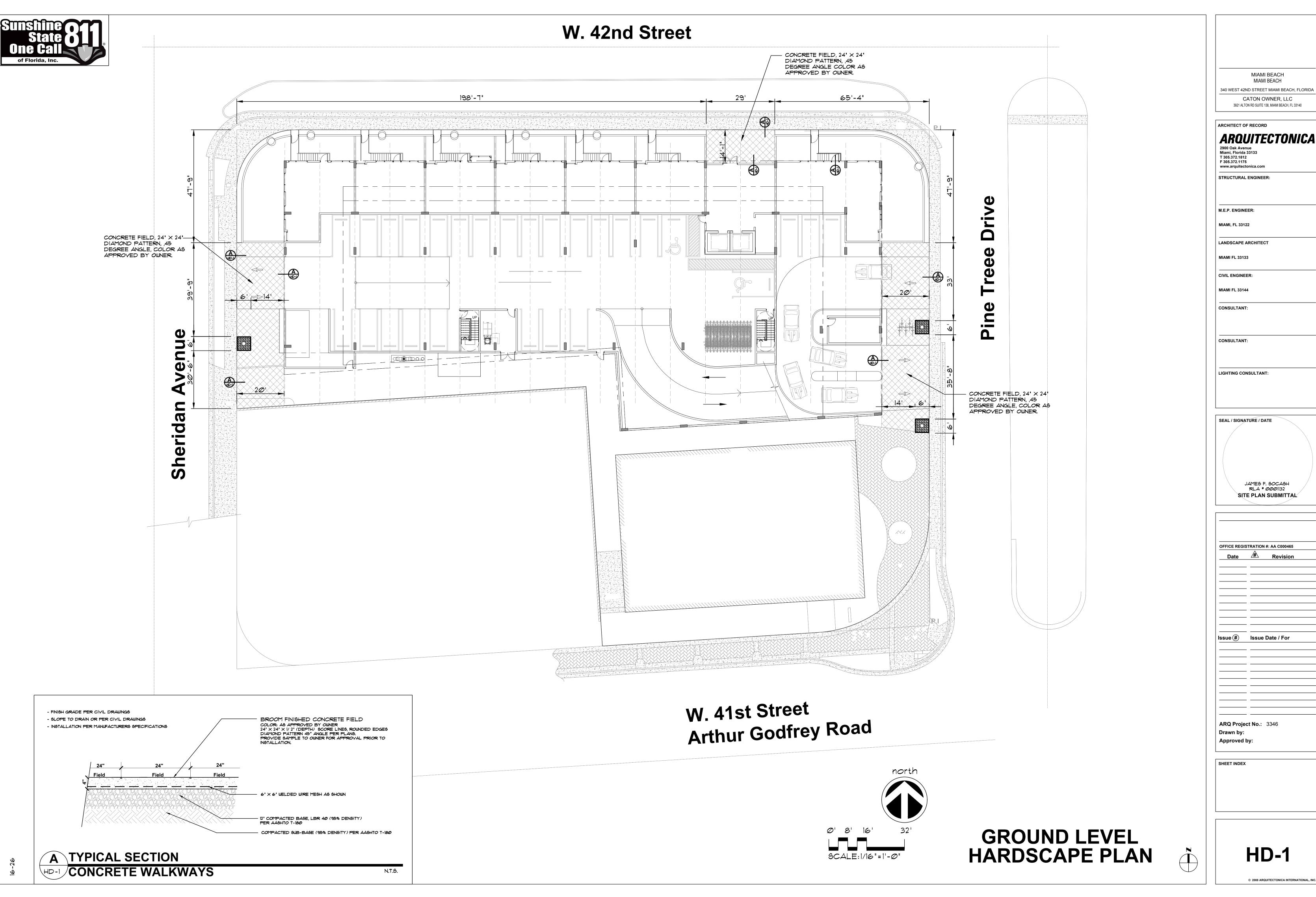
SEAL / SIG	GNATURE / DATE	
	JAMES F. SOCASH	
	RLA * 000 1132 Site Plan Submitt	'AL

sue (#)	Issue Date / For
RQ Projec	t No.: 3346

SHEET INDEX		

Approved by:

TD-1



MIAMI BEACH MIAMI BEACH 340 WEST 42ND STREET MIAMI BEACH, FLORIDA

CATON OWNER, LLC 3921 ALTON RD SUITE 138, MIAMI BEACH, FL 33140

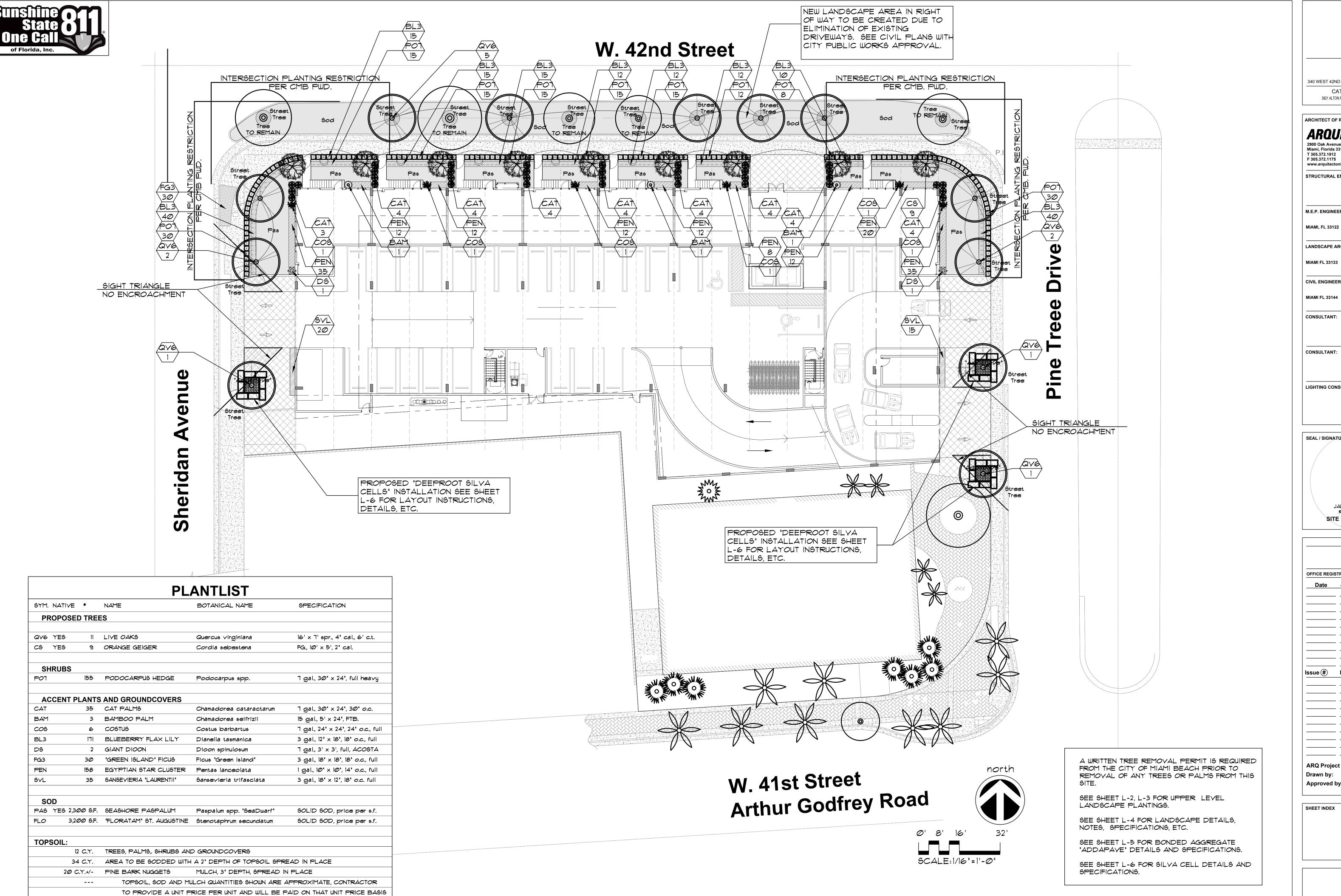
ARQUITECTONICA

STRUCTURAL ENGINEER:

M.E.P. ENGINEER:

LANDSCAPE ARCHITECT

HD-1



MIAMI BEACH MIAMI BEACH

340 WEST 42ND STREET MIAMI BEACH, FLORIDA CATON OWNER, LLC 3921 ALTON RD SUITE 138, MIAMI BEACH, FL 33140

ARCHITECT OF RECORD **ARQUITECTONICA** 2900 Oak Avenue Miami, Florida 33133 T 305.372.1812 F 305.372.1175 www.arquitectonica.com STRUCTURAL ENGINEER:

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CIVIL ENGINEER:

CONSULTANT:

CONSULTANT:

LIGHTING CONSULTANT:

SEAL / SIGNATURE / DATE JAMES F. SOCASH RLA # 0001132

SITE PLAN SUBMITTAL

OFFICE REGISTRATION #: AA C000465				
Date	#	Revision		

Issue (#) Issue Date / For

ARQ Project No.: 3346

Approved by:

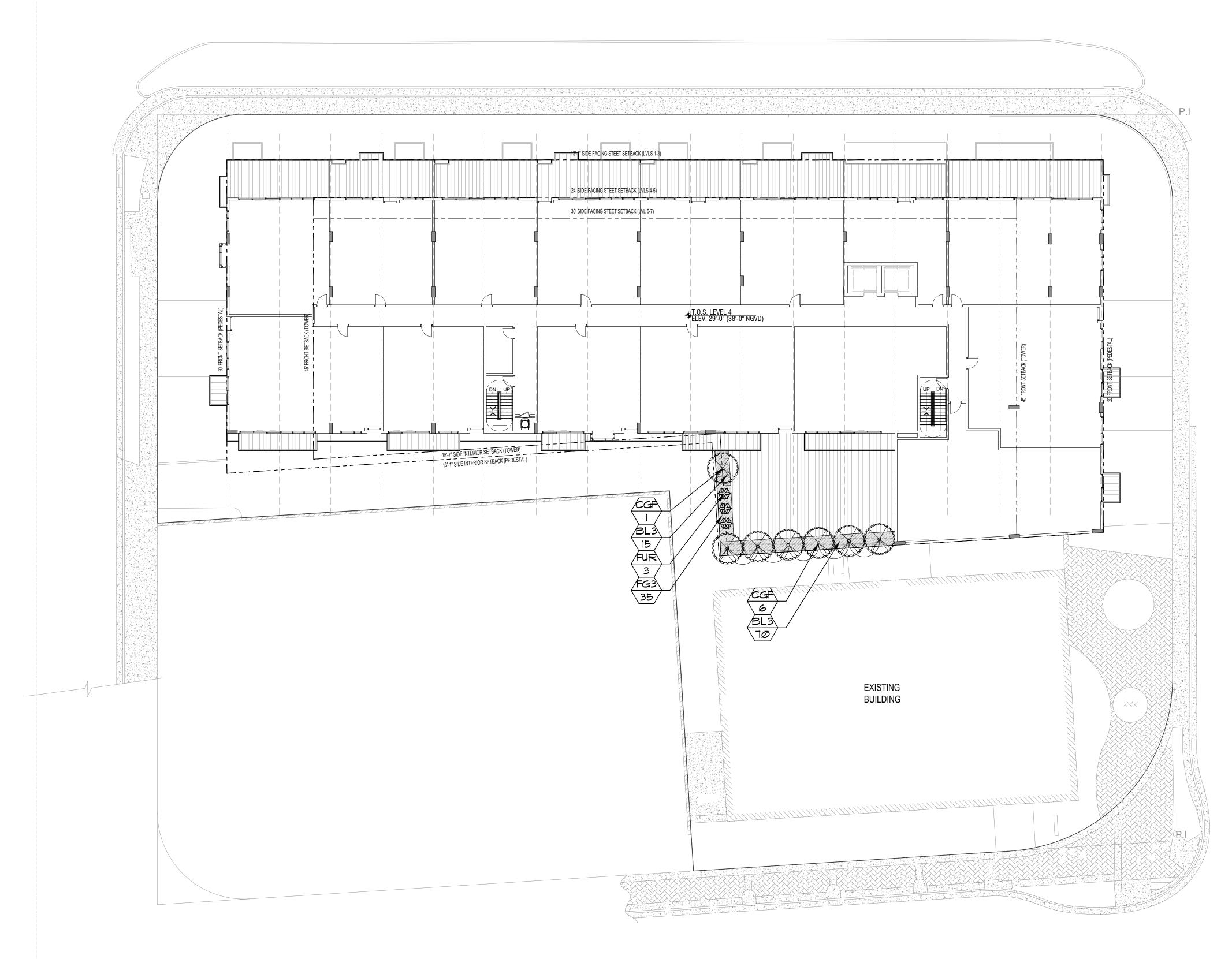
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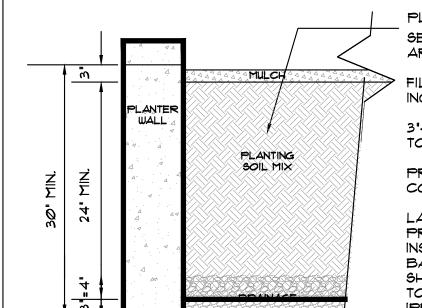
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LANDSCAPE PLAN

UPON FINAL INSPECTION AND APPROVAL.







PLANTING SOIL:

SEE NOTE BELOW: PROVIDE SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

FILTER FABRIC BY "POLY FILTER" BY CARTHAGE MILLES INC., CINCINNATI, OH., OR APPROVED EQUAL.

3"4" BALLAST ROCK OR APPROVED EQUAL 3"-4" DEPTH TO BE INSTALLED BY GENERAL CONTRACTOR.

PROTECT DRAINAGE PIPE AS INSTALLED BY CENERAL CONTRACTOR.

LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE PROJECT SUPERINTENDENT TO HAVE ALL DRAINAGE PIPE INSTALLED AND CONNECTED PRIOR TO BACKFILLING WITH BALLAST RODS, FILTER FABRIC, ETC. CONTRACTOR SHALL ALSO COORDINATE ALL IRRIGATION INSTALLATION TO INSURE COMPLETE OPERATION LOGISTICS REGARDING IRRIGATION AND DRAINAGE.

TYPICAL LANDSCAPE PLANTER

NI.

THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE PLANTERS WITH AN APPROVED SOIL MIX.

CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT A SOIL SAMPLE AND A SOIL MATERIAL RATIO CHART FOR APPROVAL PRIOR TO INSTALLATION OF THE SOIL. SOIL MIX SHALL BE A SPECIAL MIX TO PROVIDE, POROSITY FOR DRAINAGE, AND CONTAIN AMENDMENTS (PERLITE OR SIMILAR) TO REDUCE SOIL DENSITY AND WEIGHT. SOIL MIX SHALL BE AS PER ATLAS PEAT AND SOIL OR TOM WATERS INC. SOIL MIX OR AN

- APPROVED EQUAL TO CONTAIN EQUAL OR FORMULATED RATIOS OF THE FOLLOWING:

 1. SILICA

 2. SOIL
- 3. COMPOST4. PERLITE5. SHAYINGS

NOTE.

THE CONTRACTOR SHALL BE RESPONSIBLE TO FILL THE PLANTING MIX TO A DEPTH WHICH WILL BE 4" FROM THE TOP OF THE PLANTING WALL. SOIL & BALLAST ROCK QUANTITIES ARE APPROX. & WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR FINAL GRADE AS PER THIS

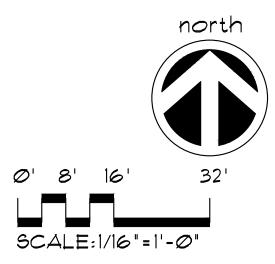
WALL IMPERMEABILIZATION, DRAINS AND EYE HOOKS SHALL BE PREPARED & INSTALLED BY THE GENERAL CONTRACTOR.

THE LANDSCAPE AND IRRIGATION CONTRACTORS SHALL COORDINATE ALL WORK WITH THE PROJECT MANAGER AND ALL PERTINENT SUBCONTRACTORS TO INSURE A PROFESSIONAL EXPEDITIOUS PROCESS.

ALL PLANTING BEDS SHALL BE MULCHED WITH AN APPROVED RECYCLED MULCH, OR AN APPROVED EQUAL. SEE "LANDSCAPE NOTES".

THE CONTRACTOR SHALL SUBMIT PHOTOS FOR ALL SPECIMEN PLANT MATERIAL (ALL PALMS AND TREES) TO THE L.A. FOR APPROVAL PRIOR TO PLANTING.

PLANTLIST						
SYM.	NATIVE	#	NAME	BOTANICAL NAME	SPECIFICATION	
TR	REES					
CGF	YES	٦	SMALL LEAF CLUSIA	Clusia guttifera	Multi-Std., 8'-10' o.a., RUNWAY	
AC	CENT P	LANTS	S AND GROUNDCOVERS			
BL3		85	BLUEBERRY FLAX LILY	Dianella tasmanica	3 gal., 12" x 18", 18" o.c., full	
FG3		3 5	"GREEN ISLAND" FICUS	Ficus "Green Island"	3 gal., 18" x 18", 18" o.c., full	
FUR		3	GIANT FALSE AGAVE	Furcrea foetida	15 gal., 4' x 4', full specimen	
TOP	SOIL:					
	22	C.Y.	"2100 MIX" FOR PLANTING:	-PER ATLAS PEAT AND SOIL	FOR PLANTER BOXES	
			BASED UPON A 2' DEPTH-	CONTRACTOR SHALL VERIF	Y DEPTH PRIOR TO PLANTING.	
MUL	CHING:					
	3 C	.Y.+/-	PINE BARK NUGGETS	3" DEPTH, SPREAD IN PL	ACE, ATLAS PEAT AND SOIL	
				PROVIDE SAMPLE FOR A	PPROVAL PRIOR TO INSTALLATION	
			TOPSOIL, SOD AND 1	MULCH QUANTITIES SHOWN AF	RE APPROXIMATE, CONTRACTOR	
			TO PROVIDE A UNIT	PRICE PER UNIT AND WILL E	BE PAID ON THAT UNIT PRICE BASIS	
			UPON FINAL INSPECT	ION AND APPROVAL.		



A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM THE CITY OF MIAMI BEACH PRIOR TO REMOVAL OF ANY TREES OR PALMS FROM THIS SITE.

SEE SHEET L-2, L-3 FOR UPPER LEVEL LANDSCAPE PLANTINGS.

SEE SHEET L-4 FOR LANDSCAPE DETAILS, NOTES, SPECIFICATIONS, ETC.

SEE SHEET L-5 FOR BONDED AGGREGATE "ADDAPAVE" DETAILS AND SPECIFICATIONS.

SEE SHEET L-6 FOR SILVA CELL DETAILS AND SPECIFICATIONS.

LEVEL 4
LANDSCAPE PLAN



340 WEST 42ND STREET MIAMI BEACH, FLORIDA

CATON OWNER, LLC

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MIAMI BEACH
MIAMI BEACH

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MIAMI, I L 33122

LANDSCAPE ARCHITECT

MIAMI FL 33133

CIVIL ENGINEER:

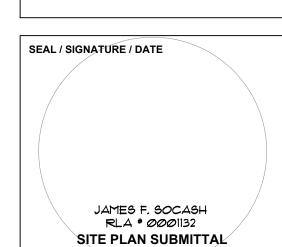
MIAMI FL 33144

CONSULTANT:

CONSULTANT:

TING CONOUR TANK

LIGHTING CONSULTANT:



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Date	#	Revision	

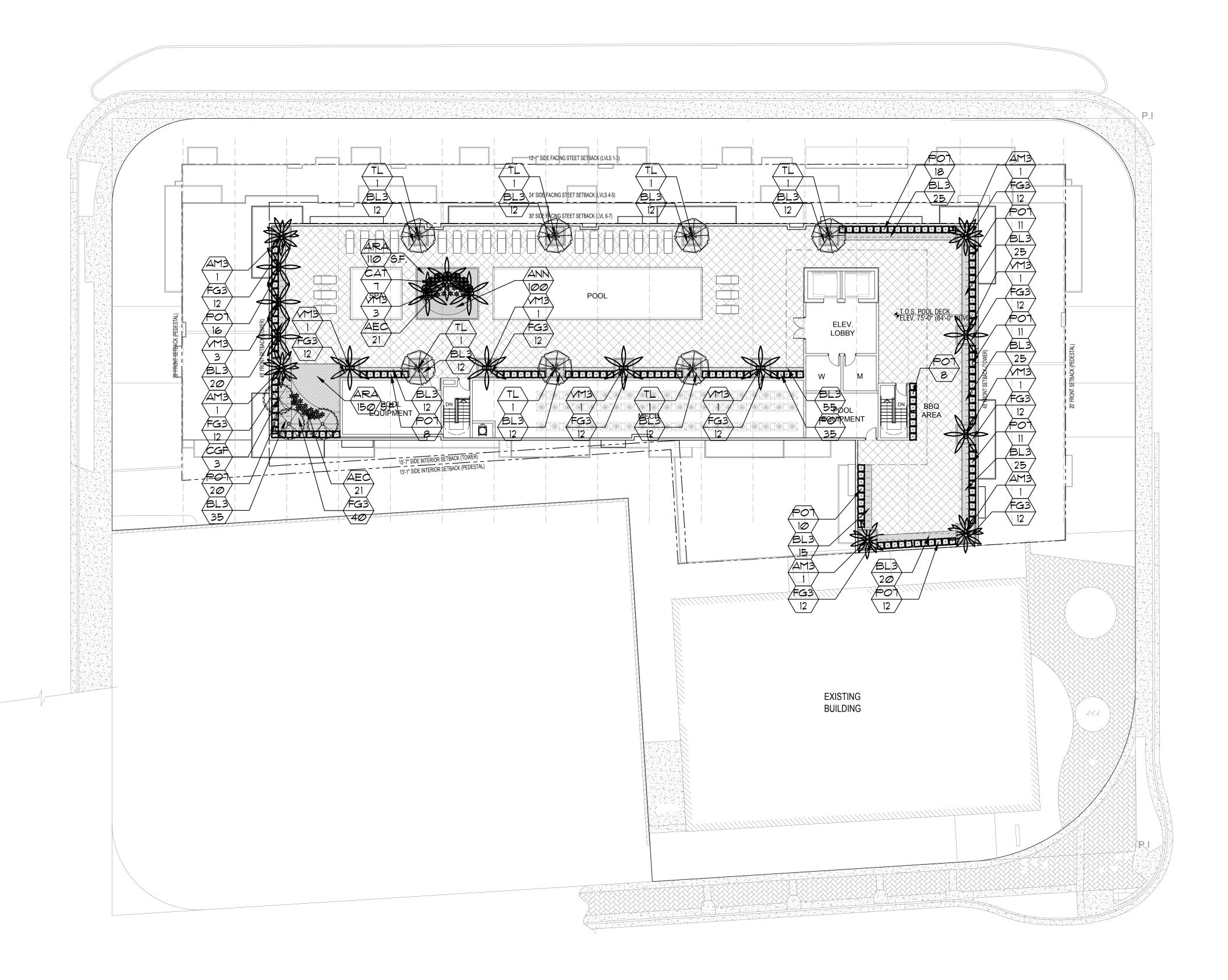
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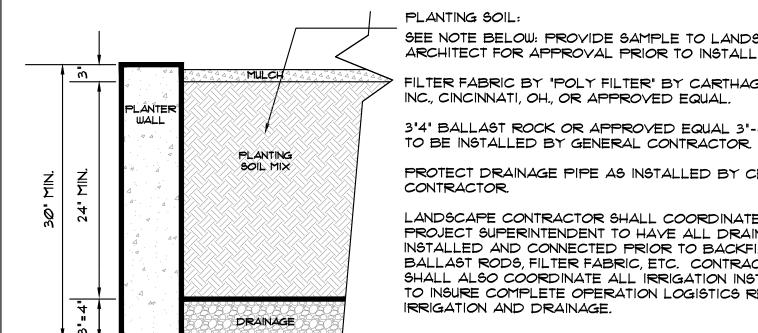
ARQ Project No.: 3346
Drawn by:
Approved by:

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L-2







PLANTING SOIL:

SEE NOTE BELOW: PROVIDE SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

FILTER FABRIC BY "POLY FILTER" BY CARTHAGE MILLES

INC., CINCINNATI, OH., OR APPROVED EQUAL. 3"4" BALLAST ROCK OR APPROVED EQUAL 3"-4" DEPTH

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TYPICAL LANDSCAPE PLANTER

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- FORMULATED RATIOS OF THE FOLLOWING: 1. SILICA 2. SOIL
- 3. COMPOST 4. PERLITE
- 5. SHAYINGS

THE CONTRACTOR SHALL BE RESPONSIBLE TO FILL THE PLANTING MIX TO A DEPTH WHICH WILL BE 4" FROM THE TOP OF THE PLANTING WALL. SOIL & BALLAST ROCK QUANTITIES ARE APPROX. & WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR FINAL GRADE AS PER THIS NOTE.

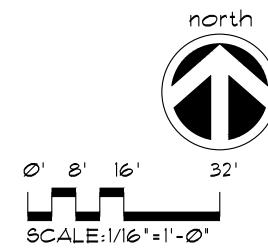
WALL IMPERMEABILIZATION, DRAINS AND EYE HOOKS SHALL BE PREPARED & INSTALLED BY THE GENERAL CONTRACTOR.

THE LANDSCAPE AND IRRIGATION CONTRACTORS SHALL COORDINATE ALL WORK WITH THE PROJECT MANAGER AND ALL PERTINENT SUBCONTRACTORS TO INSURE A PROFESSIONAL EXPEDITIOUS PROCESS.

ALL PLANTING BEDS SHALL BE MULCHED WITH AN APPROVED RECYCLED MULCH, OR AN APPROVED EQUAL. SEE "LANDSCAPE NOTES".

THE CONTRACTOR SHALL SUBMIT PHOTOS FOR ALL SPECIMEN PLANT MATERIAL (ALL PALMS AND TREES) TO THE L.A. FOR APPROVAL PRIOR TO PLANTING.

			PL.	ANTLIST	
SYM.	NATIVE	#	NAME	BOTANICAL NAME	SPECIFICATION
PF	ROPOSEI	D TRE	ES		
CGF	YES	3	SMALL LEAF CLUSIA	Clusia guttifera	Multi-Std., 8'-10' o.a., RUNWA
TL		٦	TREE LIGUSTRUM	Ligustrum japonicum	FL., FANCY, 8' x 8' full crown
PA	ALMS				
ДМ З		5	CHRISTMAS PALM	Adonidia merrillii	FG., 10' o.a., TPL., full head
∨M3		12	MONTGOMERY PALMS	Veitchia montgomeryana	TPL. TK., FG., 14' o.a., full hd.
SH	IRUBS				
P01		163	PODOCARPUS HEDGE	Podocarpus spp.	7 gal., 30" x 24", full heavy
AC	CCENT P	LANTS	S AND GROUNDCOVERS		
AEC		42	AECHMEA BROMELIADS	Aechmea blanchetiana 'Orange'	3 gal., 18" x 18", BULL16
ARA	26	Ø s.f.	PERENNIAL PEANUT	Arachis glabrata 'EcoTurf'	SOLID SOD, price per s.f.
ANN		100	FLOWERING ANNUALS	Species, color to be sel.	6" pots, 12" o.c. full
CAT		٦	CAT PALMS	Chamadorea cataractarum	7 gal., 30" x 24", 30" o.c.
BL3		341	BLUEBERRY FLAX LILY	Dianella tasmanica	3 gal., 12" x 18", 18" o.c., full
FG3		168	'GREEN ISLAND' FICUS	Ficus "Green Island"	3 gal., 18" x 18", 18" o.c., full
TOP	SOIL:				
	50	C.Y.	"2100 MIX" FOR PLANTING-F	PER ATLAS PEAT AND SOIL FOR	PLANTER BOXES
			BASED UPON A 2' DEPTH-C	CONTRACTOR SHALL VERIFY DEF	PTH PRIOR TO PLANTING.
N/I I I	CHING:				
		; <u>/</u> /-	PINE BARK NUGGETS	3" DEPTH, SPREAD IN PLACE, A	ATLAS PEAT AND SOIL
WUL				PROVIDE SAMPLE FOR APPRO	OVAL PRIOR TO INSTALLATIO
WUL					
WIUL			TOPSOIL, SOD AND MU	JLCH QUANTITIES SHOWN ARE AP	PROXIMATE, CONTRACTOR



A WRITTEN TREE REMOVAL PERMIT IS REQUIRED FROM THE CITY OF MIAMI BEACH PRIOR TO REMOVAL OF ANY TREES OR PALMS FROM THIS

SEE SHEET L-2, L-3 FOR UPPER LEVEL LANDSCAPE PLANTINGS.

SEE SHEET L-4 FOR LANDSCAPE DETAILS, NOTES, SPECIFICATIONS, ETC.

SEE SHEET L-5 FOR BONDED AGGREGATE "ADDAPAVE" DETAILS AND SPECIFICATIONS.

SEE SHEET L-6 FOR SILVA CELL DETAILS AND SPECIFICATIONS.

ROOF LEVEL LANDSCAPE PLAN



MIAMI BEACH MIAMI BEACH

340 WEST 42ND STREET MIAMI BEACH, FLORIDA

CATON OWNER, LLC

3921 ALTON RD SUITE 138, MIAMI BEACH, FL 33140

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M.E.P. ENGINEER:

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MIAMI FL 33133

CIVIL ENGINEER:

MIAMI FL 33144

CONSULTANT:

CONSULTANT:

LIGHTING CONSULTANT:

SEAL / SIGNATURE / DATE

JAMES F. SOCASH RLA # 0001132 SITE PLAN SUBMITTAL

Issue (#) Issue Date / For

ARQ Project No.: 3346

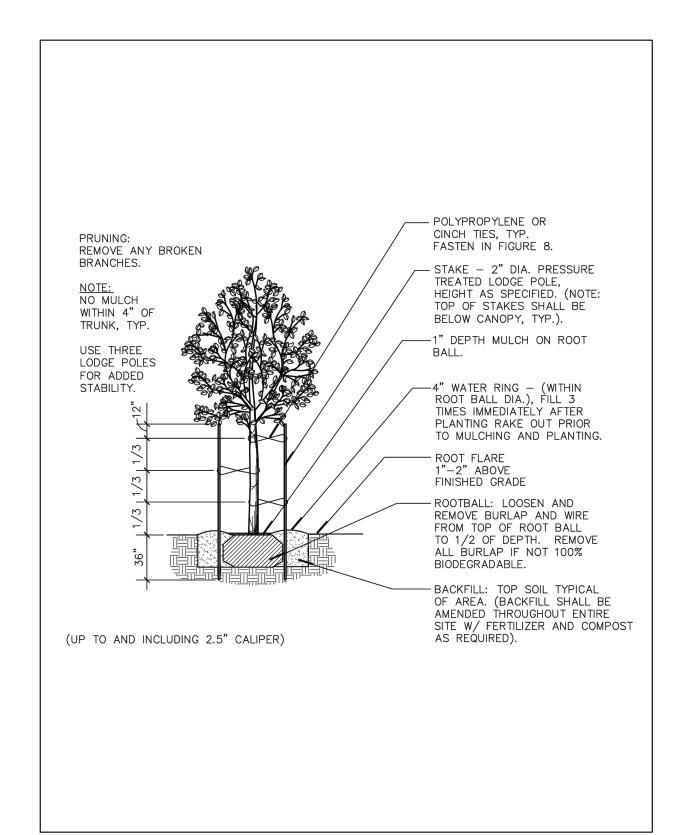
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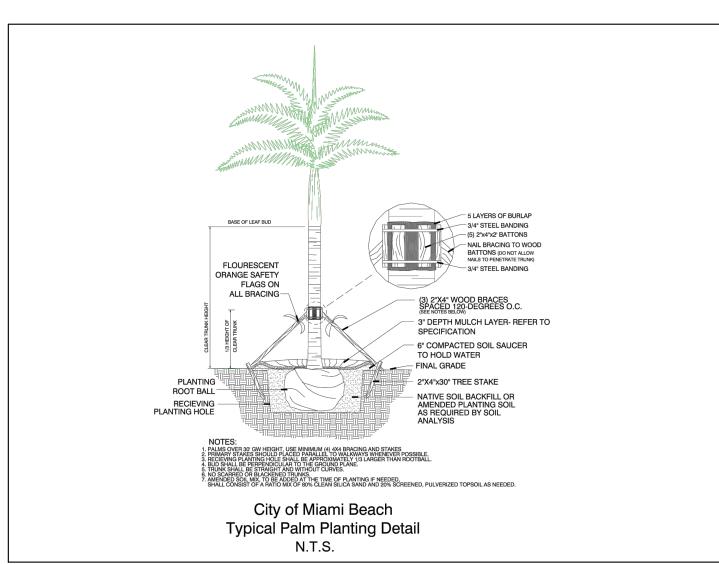
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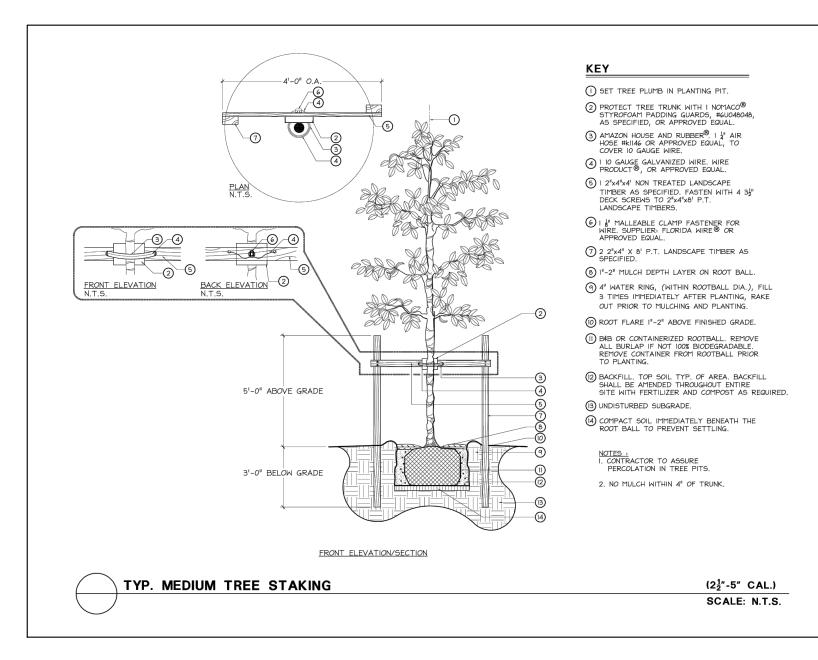
LANDSCAPE ARCHITECT

F 305.372.1175 www.arquitectonica.com









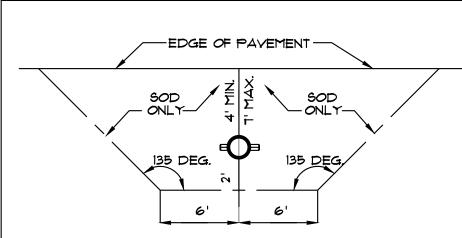
PLANTING SOIL:

NOTE: ALL LANDSCAPED AREAS INCLUDING LANDSCAPE ISLANDS, SHALL BE EXCAYATED TO A DEPTH OF 2.0 FEET FOR REMOVAL OF ALL COMPACTED MATERIAL, LIMEROCK, ETC. AND BACKFILLED WITH A CLEAN, APPROVED BACKFILL. 50:50 TOPSOIL SHALL BE APPLIED TO A DEPTH OF 6' FOR ALL PLANTING BEDS AND A 2' DEPTH FOR ALL SOD AREAS. THE CONTRACTOR SHALL CALCULATE AND PROVIDE A UNIT AND AN EXTENDED PRICE FOR THIS ITEM.

FERTILIZATION:

ONE COMPLETE APPLICATION OF GRANULAR FERTILIZER SHALL BE APPLIED PRIOR TO FINAL ACCEPTANCE AND APPROVAL BY THE LANDSCAPE ARCHITECT. AN ADDITIONAL FERTILIZATION PROGRAM SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR AN ANNUAL FERTILIZATION APPLICATION PROGRAM. FERTILIZERS SHALL BE PER ATLANTIC -AFEC FERTILIZER & CHEMICAL (AFEC) OR AN APPROVED EQUAL. CONTRACTOR SHALL SUBMIT FERTILIZATION AS A SEPARATE ITEM IN THE BID.

FERTILIZATION SHALL BE AS FOLLOWS: TREES: 12-06-08 (AFEC * 5231) RATE: 15 LBS./ INCH OF DIA. @ DBH PALMS: 12-04-12 (AFEC * 7216) RATE: 1.5 LBS./ INCH OF DIA. @ DBH SHRUBS AND GROUNDCOVERS: (12-06-08 AFEC * 5231) RATE: 1.5 OZ./ FT. OF HEIGHT



REQUIREMENTS APPLY TO FIRE HYDRANTS, SIAMESE CONNECTIONS AND ANY OTHER FIRE EQUIPMENT FOR UTILIZING FIRE HOSE, ON PUBLIC OR PRIVATE PROPERTY. BY THE AUTHORITY OF THE SOUTH FLORIDA

FIRE PREVENTION CODE SECTION 5211.2 THIS DIAGRAM SHALL APPEAR ON ALL LANDSCAPE PLANS PRIOR TO APPROVAL.

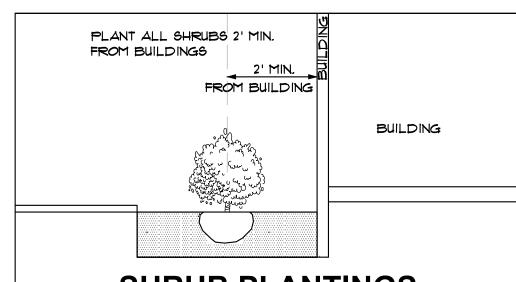
THE CLEAR ZONE SHALL BE FREE OF LANDSCAPE (EXCEPT SOD), MAILBOXES, PARKING, LAMP-POSTS AND ALL OTHER

EXCEPTIONS: OTHER FIRE FIGHTING EQUIPMENT OR TRAFFIC POSTS TO PREVENT FIRE FIGHTING EQUIPMENT.

FIRE HYDRAN **CLEAR ZONE**

N.T.S.

N.T.S.



SHRUB PLANTINGS BUILDING DETAIL

BACKFLOW PREVENTER CONCRETE SLAB PROPOSED HEDGE COCOPLUM: ADD SHRUBS AS NEEDED IF NOT SHOWN ON PLAN. 3 GAL., 24" × 24", 2' O.C BACKFLOW PREVENTER PROPOSED HEDGE .) IF DOMESTIC BACKFLOW PREVENTER AND FIRE SERVICE ARE GOING TO BE USED TOGETHER, THE LANDSCAPE SHALL BE PROVIDED TO SCREEN BOTH DEVICES. 2.) LANDSCAPING IS REQUIRED AS PER CHAPTER 32, SECTION 32-157(d) OF THE MIAMI-DADE COUNTY CODE.

TYPICAL PLANTING SCREEN FOR ABOVE-GROUND UTILITIES

PLANT HEDGE-TYPE MATERIAL AROUND ALL GROUND-MOUNTED EQUIPMENT - TYPICAL FOR ALL FPL TRANSFORMER BOXES OR PADS, TELEPHONE AND CABLE BOXES, SANITARY LIFT STATIONS, IRRIGATION PUMPS OR ANY OTHER ABOVE-GROUND UTILITY EQUIPMENT. CLEARANCES FOR ANY AND ALL UNDERGROUND UTILITIES MUST BE COORDINATED WITH THE LOCAL GOVERNING

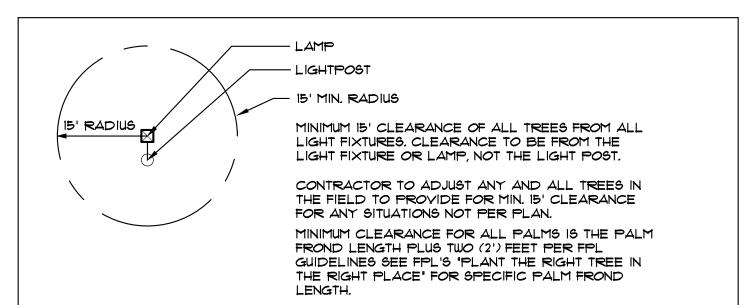
> UNCLE. - TEL: 1 (800) 432-4770 PLANT MATERIAL TO BE COCOPLUM OR OTHERWISE SPECIFIED ON THE PLANS- 3 GAL. 24" × 24", 2' O.C. OR LARGER PER THE LOCAL REQUIREMENTS. QUANTITY TO BE PER THE SIZE OF THE UTILITY. PROVIDE UNIT PRICE AND BILL PER QUANTITY INSTALLED.

AGENCY AND/OR THE INDIVIDUAL UTILITIES AND/OR

3" MIN. APPROVED RECYLED MULCH FOR ALL PLANTING AREAS. PROVIDE OPENING FOR ACCESS ON ONE SIDE

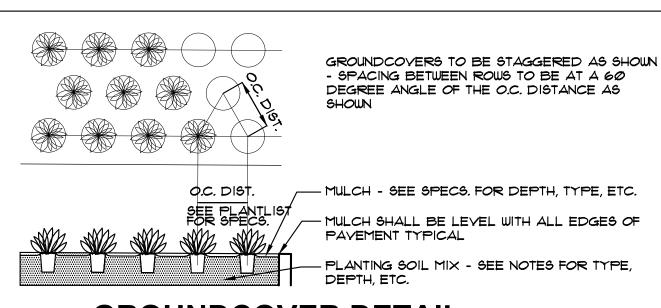
ONLY- OR AS REQUIRED BY THE UTILITY.

TYPICAL PLANTINGS FOR **GROUND-MOUNTED EQUIPMENT**

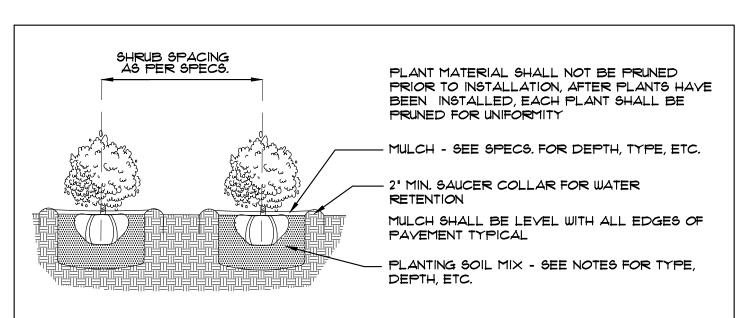


MINIMUM TREE CLEARANCE FROM LIGHT FIXTURES

N.T.S.



GROUNDCOVER DETAIL



SHRUB PLANTING DETAIL

LANDSCAPE NOTES

1. ALL PLANT MATERIAL SHALL BE FLORIDA NO. I GRADE OR BETTER.

2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF AND AVOID AND PROTECT UTILITY LINES, BURIED CABLES, AND OTHER UTILITIES.

3. TREE, PALM, ACCENT AND BED LINES ARE TO BE LOCATED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

4. ALL PLANTING SOIL SHALL BE 50:50 TOPSOIL:SAND MIX, FREE OF CLAY, STONES, ROCKS, OR OTHER FOREIGN MATTER. THIS SPECIFICATION INCLUDES ALL BACKFILL FOR BERMS AND OTHER LANDSCAPE AREAS.

SODDED-LAWN AREAS

2" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT. GROUNDCOVER PLANTING BEDS: 6" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.

SHRUB AND HEDGE PLANTING AREAS: 12" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT. TREES, PALMS, SPECIMEN PLANT MATERIAL:

24" DEPTH PLANTING SOIL SPREAD IN PLACE OR, TO THE DEPTH OF THE ROOTBALL OR CONTAINER WHICHEVER IS GREATEST. LANDSCAPE ISLANDS AND BUILDING FOUNDATIONS:

EXCAYATE AND REMOVE ALL LIMEROCK, ROCKS, DEBRIS. ETC. TO A DEPTH OF 12" AND BACKFILL W/ 50:50 TOPSOIL:SAND MIX. BUILDING FOUNDATIONS SHALL BE THE SAME DEPTH TO A WIDTH OF 36" FROM THE BUILDING BASE.

5. THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL GRADES TO WITHIN 2" OF FINAL GRADES. THIS SHALL INCLUDE A 2" APPLICATION OF 50:50 TOPSOIL: SAND MIX FOR ALL LANDSCAPE AND AREAS TO BE SODDED.

6. THE LANDSCAPE CONTRACTOR SHALL CALCULATE AND SUBMIT AN ITEMIZED PRICE FOR THE 2" APPLICATION OF 50:50 MIX FOR ALL SOD AREAS AS A REFERENCE IN THE CASE THAT THERE WOULD BE A DISCREPANCY BETWEEN SITE AND LANDSCAPE CONTRACTORS AND NOTIFY THE SITE CONTRACTOR OR PROJECT SUPERINTENDENT AS TO THIS DISCREPANCY. IT WILL THEN BE DETERMINED WHICH PARTY WILL PROVIDE THIS 2" TOPSOIL: SAND APPLICATION AND SUBSEQUENT PAYMENT.

OTHER PLANTING SOIL MIXES TO BE ADDED, I.E. FOR TREES, PALMS, SPECIMEN PLANTS, SHRUBS AND GROUNDCOVERS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR AND BE INCLUSIVE WITH THE LANDSCAPE BID.

1. CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AND LEAVE PROVISIONS FOR ALL, INCLUDING UNDERGROUND UTILITY LINE LOCATIONS DIAL 811 "NO CUTS" AS REQUIRED BY LAW.

8. ALL PLANTING BEDS SHALL BE MULCHED TO A DEPTH OF 3" WITH AN APPROVED RECYCLED MULCH BY THE PRESIDING GOVERNING AGENCY. NO HEAVY METALS, I.E. ARSENIC, LEAD, ETC. ARE TO BE CONTAINED IN THE MULCH AND THE CONTRACTOR SHALL PROVIDE CERTIFICATION OR PROOF THAT ALL MULCH IS FREE OF HEAVY METALS OR SIMILAR ENVIRONMENTAL CONTAMINANTS.

9. SOD SHALL BE ARGENTINE "BAHIA" OR ST. AUGUSTINE "FLORATAM" AS SHOWN ON THE PLANS, STRONGLY ROOTED, FREE FROM WEED. FUNGUS. INSECTS AND DISEASE. CONTRACTOR SHALL SOD ALL AREAS AS INDICATED ON THE PLAN OR AS DIRECTED. PAYMENT SHALL BE DETERMINED BY THE TOTAL MEASURED SODDED AREAS X THE UNIT PRICE SUBMITTED AND FIELD VERIFIED

10. SOD SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AS DEFINED BY FDOT. SOD SHALL CARRY A 5-MONTH WARRANTY.

11. ALL TREES, PALMS, SHRUBS AND GROUNDCOVERS SHALL CARRY A ONE-YEAR WARRANTY FROM THE DATE OF FINAL ACCEPTANCE.

12. ALL TREES AND PALMS SHALL BE STAKED PER ACCEPTED STANDARDS BY THE FLORIDA NURSERYMEN & GROWERS LANDSCAPE ASSOCIATION (FNGLA). THERE SHALL BE ONE FINAL INSPECTION FOR APPROVAL BY THE PRESIDING GOVERNING AGENCY. CONTRACTOR SHALL INSURE THAT THE PLANS, DETAILS, SPECIFICATIONS AND NOTES HAVE BEEN ADHERED TO AND THAT THE LANDSCAPE AND IRRIGATION INSTALLATION IS COMPLIANT TO ALL ITEMS AS DIRECTED ON THE PLANS PRIOR TO SCHEDULING OF THE FINAL INSPECTION.

13. THE PLANT LIST IS INTENDED ONLY AS AN AID TO BIDDING. ANY DISCREPANCIES FOUND BETWEEN THE QUANTITIES ON THE PLAN AND PLANT LIST, THE QUANTITIES ON THE PLAN SHALL BE HELD VALID.

14. IRRIGATION SHALL PROVIDE FOR A 100% COVERAGE WITH A 100% OVERLAP, AUTOMATIC SYSTEM W/ RAIN MOISTURE SENSOR ATTACHED TO CONTROLLER. ALL FLORIDA BUILDING CODE APPENDIX "F" IRRIGATION REQUIREMENTS SHALL BE STRICTLY ADHERED TO FOR INSTALLATION AND PREVAILING WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS SHALL BE IN COMPLIANCE FOR POST-INSTALLATION WATERING SCHEDULES.

15. EXISTING IRRIGATION SYSTEM (IF APPLICABLE) SHALL BE RETROFITTED TO COMPLY WITH THOSE SPECIFICATIONS AS OUTLINED ABOVE.

16. CONTRACTOR SHALL PROVIDE A WATER TRUCK DURING PLANTING TO INSURE PROPER WATERING-IN DURING INSTALLATION AND WILL BE RESPONSIBLE FOR CONTINUAL WATERING UNTIL FINAL ACCEPTANCE BY THE OWNER.

17. ALL EXISTING TREES, PALMS AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL PROTECTIVE BARRIERS SUCH AS "TENAX" PROTECTIVE FENCING OR AS SHOWN ON THE DETAILS TO BE INSTALLED AT THE BEGINNING OF THE PROJECT. BARRIERS SHALL BE LOCATED TO INCLUDE THE DRIPLINE OF THE TREES, PALMS AND PLANT MATERIAL WHERE POSSIBLE. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, BRANCHES, ROOTS, ROOT ZONE AREAS AND ADJACENT GRADES.

18. EXISTING TREES AND PALMS TO REMAIN SHALL BE TRIMMED PER ANSI-300 STANDARDS. SUPERVISION OF THE TRIMMING SHALL BE PERFORMED BY AN ISA-CERTIFIED ARBORIST.

19. ALL EXISTING TREES AND PALMS SHALL BE "LIFTED AND THINNED" TO PROVIDE FOR AN 8' MINIMUM CLEARANCE FOR SIDEWALKS AND PEDESTRIAN WALKWAYS AND A 14' MINIMUM CLEARANCE FOR ROADWAYS, DRIVEWAYS, AND ALL VEHICULAR USE AREAS.

20. REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN 'TREE REMOVAL PERMIT' FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL

21. ALL PLANTINGS IN NON-IRRIGATED AREAS, I.E. RIGHTS OF WAYS, SWALES, ETC. SHALL BE WATERED-IN THOROUGHLY AND CONTINUED TO BE WATERED THROUGHOUT UNTIL C.O. ACCEPTANCE. COORDINATE WITH OWNER AND PROJECT MANAGER TO PROVIDE POST C.O. WATERING TO INSURE PLANT ESTABLISHMENT FOR A MINIMUM OF ONE YEAR AFTER CERTIFICATE OF OCCUPANCY ACCEPTANCE.

LANDSCAPE DETAILS, NOTES, SPECS., ETC.



MIAMI BEACH MIAMI BEACH 340 WEST 42ND STREET MIAMI BEACH, FLORIDA CATON OWNER, LLC

2021 ALTONI DD CHITE 120 MIAMI DEACH EL 22140

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MIAMI FL 33144 CONSULTANT:

CONSULTANT:

LIGHTING CONSULTANT:

SEAL / SIGNATURE / DATE JAMES F. SOCASH RLA # 0001132 SITE PLAN SUBMITTAL

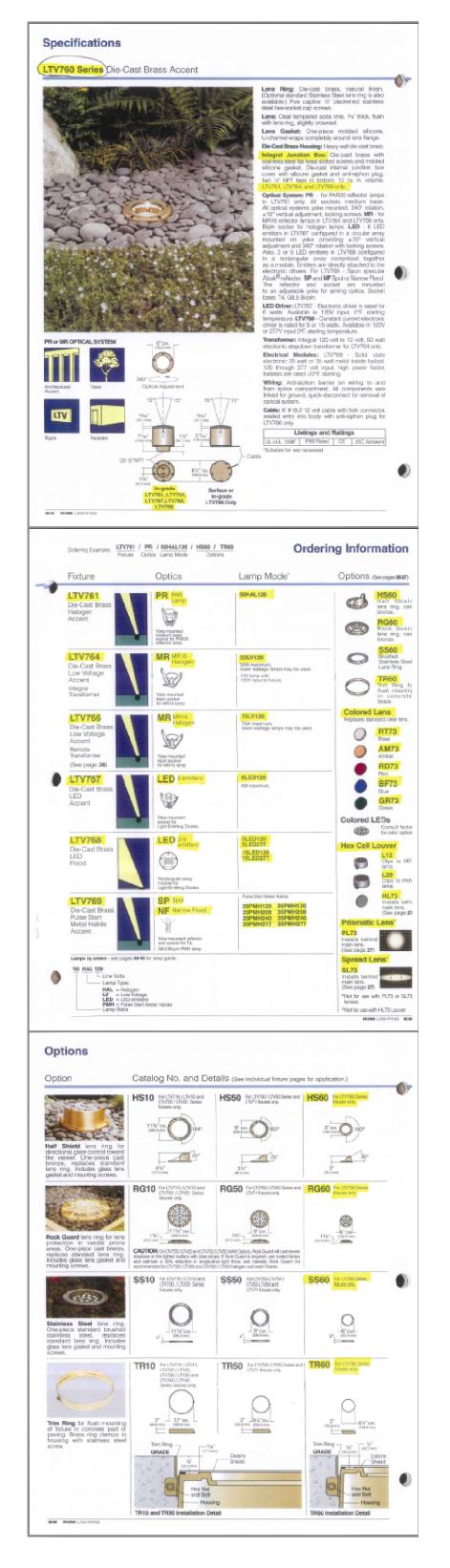
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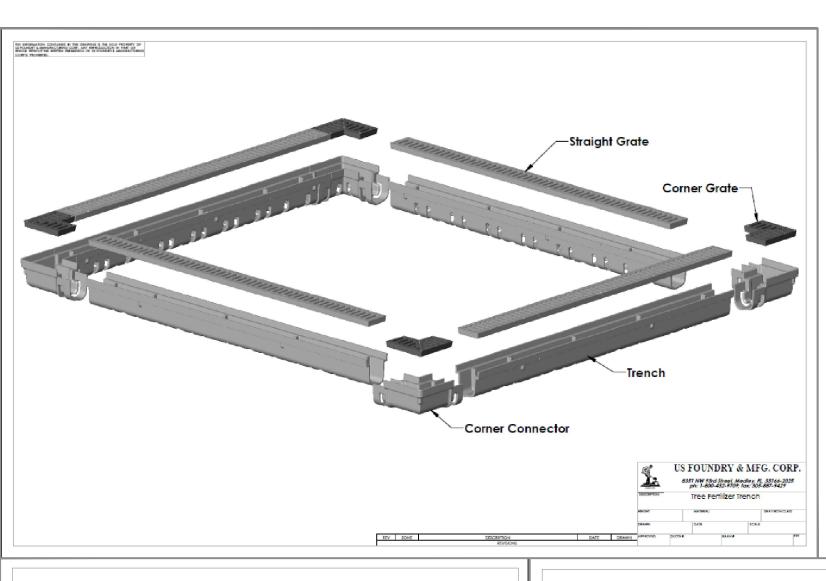
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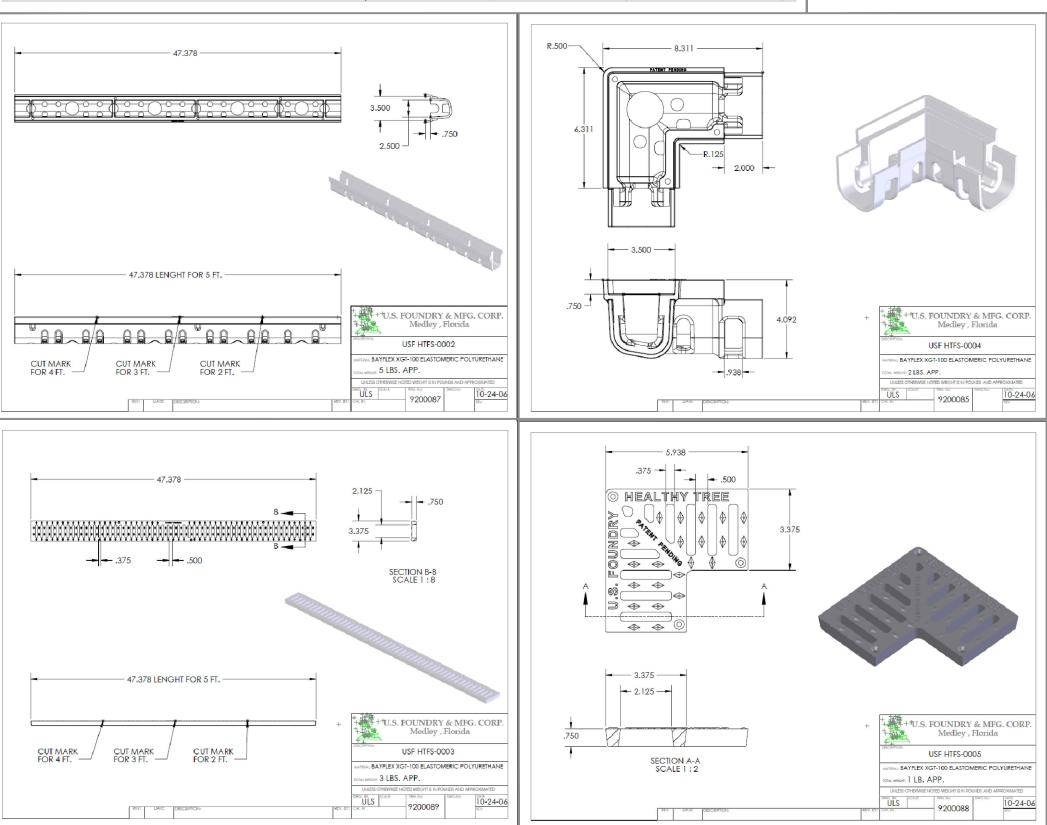
ARQ Project No.: 3346 Approved by:

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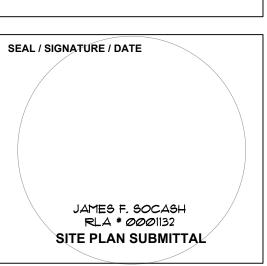




BONDED AGGREGATE "ADDAPAVE" TYPICAL DETAILS



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	CONSULTANT:
	CONSULTANT:
	LIGHTING CONSULTANT:
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INSTRUCTIONS

Silva Cell system layout is not complicated, but it does require general product orientation. Accordingly, this document is divided into three sections - General Principles, Sizing a Silva Cell System, and Layout Guidelines. An understanding of each of these sections is critical for the successful integration of the Silva Cell into your site plans. Use these guidelines with the Standard Silva Cell details.

- Wherever possible, link Silva Cell soil volumes

to each other or to existing nearby soil volumes

used to grow big trees or grow big trees and

large trees, but can also be used to treat

stormwater. Determine your project

goals for using Silva Cells and begin to

think about how to size and design your

system can use a passive irrigation system.

- For large trees and stormwater, consider how

treat stormwater.

GENERAL PRINCIPLES

- The Silva Cell system is designed to be installed beneath paved areas such as sidewalks, plazas, and parking bays. Different SIZING A SILVA CELL SYSTEM pavement types (concrete, asphalt, or pavers)

1. Determine if the Silva Cell system will be require different pavement profiles in order to meet H-20 loading requirements. The Silva Cell system is not designed to support high speed traffic loads. Consult our standard details for more information.

- Understand how utilities, soils, water table and structures might affect your Silva Cell layout. Silva Cells can often accommodate existing and for this integration is critical for a successful layout and installation. Share your Silva Cell layout with the project Civil Engineer in order If passive irrigation is not a possibility, make to work around site and utility conflicts early in sure to include irrigation in your plans. the process.

- Silva Cells allow growth of large trees that, with to distribute the stormwater throughout the adequate soil volumes, proper installation and care, will reach its true mature size. This tree will grow to have a large canopy and - See "Stormwater Schematics" for concepts a significant trunk flare that your design should accommodate.

 Determine the optimal tree size that you would - Each Silva Cell holds approximately 10 ft3 like to achieve on your site.

mature tree.

like parks, lawns, etc.

meet the target soil volume.

soil volumes, such as parks or lawns.

- See "How Much Soil to Grow a Big Tree" - Target Soil Volume = (Available Soil Volume + to find a target soil volume for your ideal Soil in Silva Cells) For example: The target soil volume is 1,000

 A simple rule of thumb for target soil volume ft3 (28m3). Each tree has a 4'x4' tree opening is to provide 1,000 ft3 (28m3) of soil for a and the Silva Cell system will be 3-frames canopy tree and 600 ft3 (17m3) of soil for an deep. The depth of planting media in the understory tree. You can also use a general Cells (and adjacent tree opening) would be 2:1 ratio of Soil Volume: Canopy Size. Trees approximately 3.75'. can also share soil volumes, an efficient way 3.75'x4'x4' = 60 ft3 (1.7m3) in the to provide rooting volume is to connect planters together. Shared soil volume targets 1,000 ft3 - 60 ft3 = 940 ft3 needed in

Silva Cells are typically around 600 ft3 (17m3) per 940 ft3/10ft3 per frame = 94 Cell frames Since we're using 3-frames deep, 94/3 = 3. Determine the volume of suitable soil available outside of the Silva Cell system.

Obviously, we can't have 0.3 Cell decks. So - Make your tree openings as large as bump this up to: possible. Due to lack of infrastructure, this is 32 decks x 3 frames deep = 96 Cell frames = the cheapest soil available. Large tree 960 ft3 + 60 ft3 = 1,020 ft3 soil provided openings will also accommodate the size of a 32 decsk x 3 frames deep = 96 Cell frames =

(0.28 m3) of soil.

- Wherever possible, link Silva Cell soil 5. If designing the system for on-site stormwater volumes to each other or to existing nearby management, determine how many Silva Cells are needed to provide stormwater treatment - Calculate the Available Soil Volume in the

area of work, including available soil in the Bioretention soil is used within the Silva Cells treeopenings themselves, as well as adjacent for standard stormwater projects. Volume of filtration or "storage" is based on the water open space that the Silva Cells can link to storage within the soil, and the location of any distribution or overflow pipes. 4. Determine how many Silva Cells are needed to

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- The static storage of water within the Silva CREATING YOUR SILVA CELL PLAN Cells will be roughly equivalent to 20% of Standard Silva Cell dimensions are approxithe total bioretention soil volume (2 ft³/.05 m³ mately 2' (0.6 m) wide x 4' (1.2 m) long.

Sub-time appropriate LPL 4" (100mm

Bottom of excasotion
Two Cell Ryers

Boffore of escassifice One Cell layer

- There are many ways for stormwater to be 2-frame stack = 30.9" (784.9 mm) deep brought into and out of the Silva Cell system. This is highly project-specific, but

The standard spacing required between Silva. to help you find the best fit. Please consult should be used for all standard Silva Cell with DeepRoot if you have stormwater specific questions.

6. Balance the required soil volume for soil oriented in a layout that best accommodates rooting with required soil volume for your site needs.

soil for a canopy tree and 600 ft3 (17 m3) of site conditions. soil for an understory tree. Stormwater treatment volumes will vary based on project location and goals.

1-frame stack = 16.5" (419.7 mm) deep we would be happy to discuss your project Cells is 1-3' (25 mm x 75 mm). These dimensions Layouts. As long as you main-tain a 1-3" (25 mm

1. Determine the available area for Silva Cell Provide approximately 1,000 ft3 (28 m3) of placement based on existing and proposed - Use current site base data, including (but not - Draw in the curb setback, limited to) structures, utilities, roads and landscape plans to evaluate all potential conflicts with the Silva Cell system. - Determine the depth of your Silva Cell

system. This will depend on available space, - In many cases, the Silva Cell system can be target soil volume, and budget. installed immediately adjacent to walls, - Silva Cells can be stacked 1-, 2-, or footings, or other site structures that 3-frames deep. Once you determine extend below the Silva Cell System. The the maximum depth that can be maximum distance should be 3" (75 mm) accommodated, refer to "Construction from these structures in order to eliminate Depths for Silva Cells" to calculate how additional support measures. This the Silva Cell system will fit into your site circumstance should always be evaluated cross-section. Note the pavement profile by a DeepRoot consultant prior to required to meet H-20 loading and construction. Please see the "Gap Bridging" required sub-base depth. Account for these details in our Modified Details package for materials when calculating the total Silva more information. 3. Evaluate the design of the tree openings.

- Project sites do not have to be of uniform - Stacks of Silva Cells 1-, 2- and 3-frames (0.6 m x 1.2 m) basic Silva Cell size. If tree deep can be positioned adjacent to one grates are part of the tree opening design. another in one-frame increments. Altering take into consideration how the Silva Cells the depth of the system is a useful way can be arranged to provide support to the to transition between site depths to grate. Tree grate support shall be placed accommodate utilities or other features that directly above the Silva Cell posts. Remember pass through your area of work. to plan for the trunk flare of a mature tree

choosing an appropriate tree grate. 5%, please contact DeepRoot directly (415 781 9700 or info@deeproot.com). 4. Create a Silva Cell in your landscape plan or Determine the available area for Silva Cell use the supplied CAD file. placement based on setbacks from proposed - Insert the appropriate DeepRoot Silva Cell or existing curbs. block into your project Landscape Plan. This

- For use on sites with slopes greater than

specifications.

Do not scale drawings.

Disclaimer: Conditions that vary from drawings must be evaluated by a qualified

- The standard setback from face of curb is Verify the size of the Silva Cell after insertion 18" (45.72 cm). This setback can be used into your drawing for compliance with as a general guideline, but project-specific standard Silva Cell dimensions.

> - Silva Cell frames must be placed between 1" and 3" (2.5 cm and 7.6 cm) apart. Spacing between frames does not need to be uniform across the entire site as long as it stays reason, please refer to our Modified details for information about gap bridging. treatment volumes.

- Copy the Silva Cell block to fill the approximate Silva Cell area, starting along the curb setback and around tree openings and/or All Silva Cell layouts and details must be other site obstacles and utilities. reviewed by a DeepRoot consultant prior to - Copy the Silva Cell block to fill the approximate Silva Cell area, starting along the curb

setback and around tree openings and/or other site obstacles and utilities. - All structures such as tree grates, curbs, and Canada: (800) 561 3883 footings designed to be supported by Silva United Kingdom: +44 (0) 207 969 2739 Cell structures must be placed directly
above the Silva Cell posts. Silva Cell posts are located around the perimeter of the Silva

- Link soil volumes wherever possible between trees so that they can share soil.

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02

block has been created to-scale and includes 6. Silva Cells should always be placed parallel or required Silva Cell spacing for ease of layout. perpendicular to each other. - Gaps larger than 3" (75 mm) should be avoided if possible. See "Gap Bridging" details for further information.

7. After the Silva Cells are laid out, finalize all volume calculations and Silva Cell counts. within the 1" to 3" parameters. If Cells need the target soil volume for the intended to be placed more than 3" apart for any tree(s), and if used in a stormwater application, meets the target stormwater

5. Place Silva Cells on your site starting with the - Determine the number of Silva Cell frames and Silva Cell decks required for your design (i.e., a 3-layer system requires 3 Silva Cell frames and 1 Silva Cell deck).

Silva Cell technology. Please contact DeepRoot if you run into any difficulties; we will help find solutions for your site.

SYM. NATIVE * NAME

"DEEPROOT" SILVA CELLS

CONSTRUCTION PROCESS.

64 SILVA CELLS "2X SILVA CELL 2" TO PROVIDE 12" DEPTH PER MANUFACTURER'S SPECIFICATIONS. 26 c.y, '5050 MIX' FOR PLANTING-PER ATLAS PEAT AND SOIL CONTRACTOR SHALL MAKE PROVISIONS FOR ALL EXISTING AND PROPOSED UTILITIES, (ABOVE AND BELOW GROUND) AND SHALL BE RESPONSIBLE TO PROTECT THROUGHOUT THE

MATERIALS LIST

BOTANICAL NAME

DEEPROOT SILVA CELL

SPECIFICATION



CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND INSTALL ALL COMPONENTS FOR "DEEPROOT SILVA CELL" PER MANUFACTURERS STANDARDS WITH INSPECTION AND APPROVAL TO BE SECURED BY THE PROJECT LANDSCAPE ARCHITECT AND THE CITY THROUGHOUT THE PROCESS, TO INCLUDE INSPECTION AND APPROVAL DURING, PRIOR TO SOIL BACKFILLING, AND ALL PHASES AS DEEMED NECESSARY BY THE PROJECT LANDSCAPE ARCHITECT AND THE CITY OF MIAMI BEACH.

CONTRACTOR SHALL CALL THE CITY OF MIAMI FOR A PRE-CONSTRUCTION CONFERENCE REGARDING ALL LANDSCAPE RELATED ITEMS TO INCLUDE SITE PREPARATION, DEEPROOT SILVA CELL INSTALLATION, LANDSCAPE AND IRRIGATION INSTALLATION AND ANY OTHER ITEMS RELATED TO THE LANDSCAPE COMPONENTS.

DEEPROOT SILVA CELLS, DETAILS, ETC.

INTEGRATED TREE, SOIL AND STORMWATER SYSTEM JAMES F. SOCASH RLA # 0001132 SITE PLAN SUBMITTAL OFFICE REGISTRATION #: AA C000465

ARQ Project No.: 3346 Approved by:

Issue (#) Issue Date / For

SHEET INDEX

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CIVIL ENGINEER:

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CONSULTANT:

CONSULTANT:

LIGHTING CONSULTANT:

SEAL / SIGNATURE / DATE

LANDSCAPE ARCHITECT

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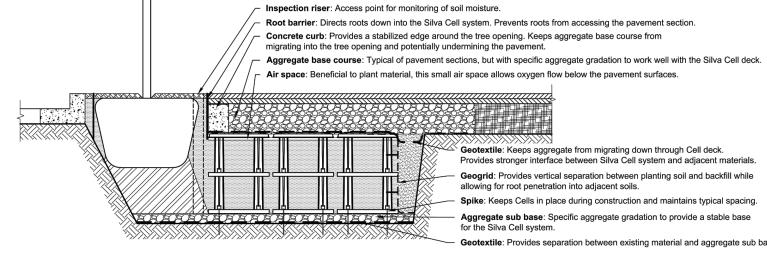
DeepRoot`

□ Concrete 1.0 □ Pavers, Asphalt & Porous Pavements 1.0 □ Concrete 2.0 □ Pavers, Asphalt & Porous Pavements 2.0 □ Concrete 3.0 □ Pavers, Asphalt & Porous Pavements 3.0

SILVA CELL SYSTEM COMPONENTS

SILVA CELLS FOR PLAZA APPLICATIONS Numbers in detail titles (1.1, 2.1, 3.2, etc.) denote the number of layers of Silva Cell frames. Basic paving details are all available in one, two, and three

These are a generic representation of a plaza and should be modified to



 Geotextile: Keeps aggregate from migrating down through Cell deck. Provides stronger interface between Silva Cell system and adjacent materials. Geogrid: Provides vertical separation between planting soil and backfill while

Spike: Keeps Cells in place during construction and maintains typical spacing Aggregate sub base: Specific aggregate gradation to provide a stable base for the Silva Cell system. Geotextile: Provides separation between existing material and aggregate sub base.

Silva Cells

DeepRoot*

APPLICATIONS

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