



TRAUTMAN ARCHITECTS

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AR15045

1533 SUNSET DRIVE SUITE 101
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LIEBERMAN FAMILY
NEW SINGLE FAMILY RESIDENCE
3720 CHASE AVENUE
MIAMI BEACH, FL

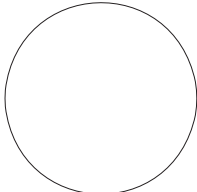
SHEET TITLE

DRAINAGE PLAN
PERMIT SET

Issue Date

TSUR CONSULTING, INC.
21011 NE 32nd Avenue
AVENTURA, FL 33180
PHONE: (305) 332-8881

STAMP/SEAL



RAUL WAINER, PE
STATE OF FLORIDA PE 0054756

JOB NUMBER:

CHECKED BY: DST

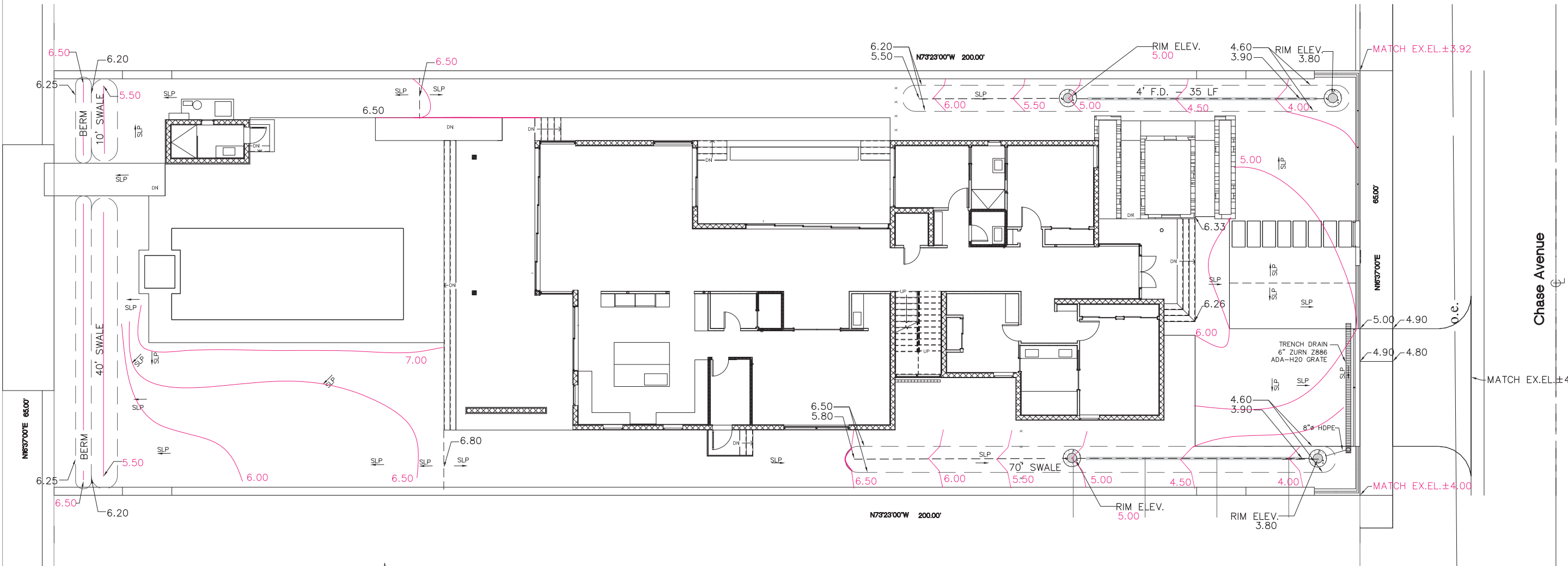
ISSUE DATE:

SCALE: AS NOTED

SHEET NUMBER

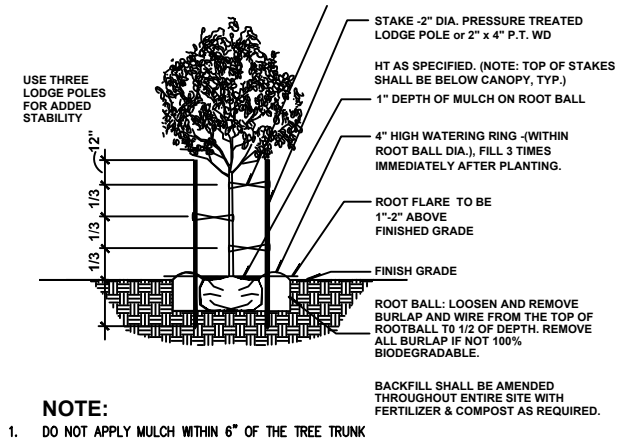
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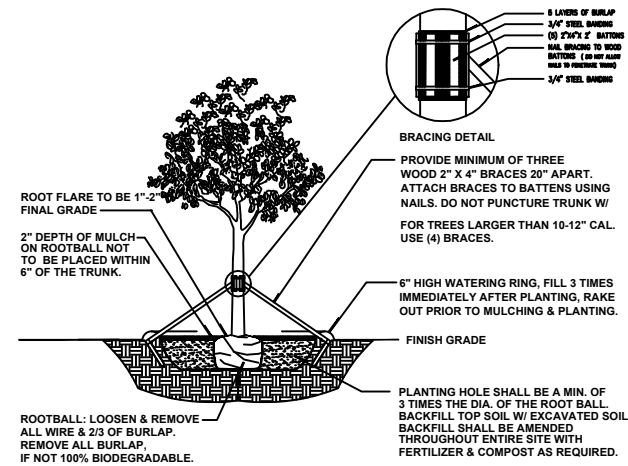


DRAINAGE SITE PLAN
SCALE: 1/8"=1'

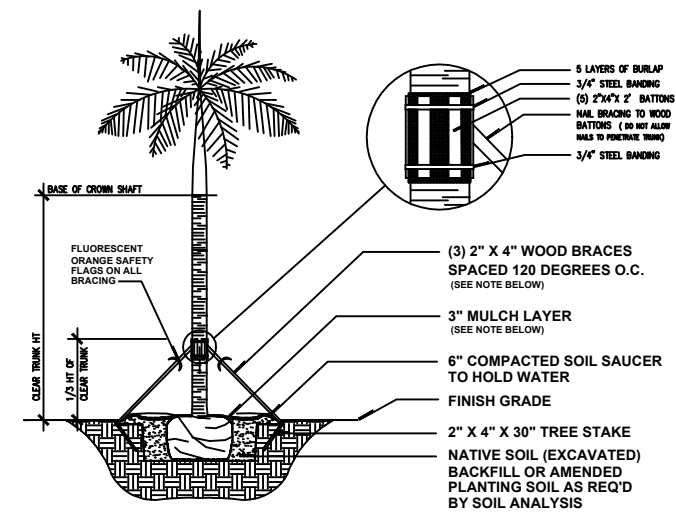
NOTE: ELEVATION VARY LINEARLY BETWEEN PROPOSED ELEVATIONS ALONG SWALES AND BERMS.



Tree Planting & Bracing Detail With A Caliper up to 2.5" N.T.S.

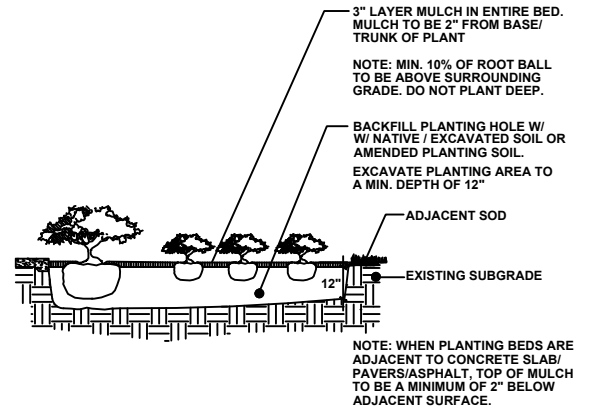


City of Miami Beach Tree Planting & Bracing Detail Caliper of 2.5" or Greater N.T.S.



- NOTES:
1. PALMS OVER 30' GW HT, USE MINIMUM (4) 4" x 4" BRACING AND STAKES.
 2. PRIMARY STAKES SHOULD BE PLACED PARALLEL TO WALKWAYS WHENEVER POSSIBLE.
 3. RECEIVING PLANTING HOLE SHALL BE APPROXIMATELY 1/3 LARGER THAN ROOTBALL.
 4. GROWING BUD SHALL BE PERPENDICULAR TO THE GROUND PLANE.
 5. TRUNK SHALL BE STRAIGHT AND WITHOUT CURVES.
 6. NO SCARRED OR BLACKENED TRUNKS.
 7. AMENDED SOIL MIX, TO BE ADDED AT THE TIME OF PLANTING, IF NEEDED. SHALL CONSIST OF A RATIO MIX 80% CLEAN SILICA SAND AND 20% SCREENED, PULVERIZED TOPSOIL, AS NEEDED.
 8. ANCHORING STAKES SHALL BE DRIVEN A MIN. OF 3" BELOW GRADE.

Typical Palm Planting Detail N.T.S.



Shrub/Groundcover Detail N.T.S.

LANDSCAPE ARCHITECT'S PLANT / PLANTING NOTES

1. ALL PLANT MATERIAL TO BE FLORIDA GRADE NO. 1 (FG #1) OR BETTER FLORIDA DEPARTMENT OF AGRICULTURE GRADES AND STANDARDS; PARTS I AND II, 5th EDITION: 2015. RESPECTIVELY.
2. TWO MEETINGS, PRE-INSTALLATION & SUBSTANTIAL COMPLETION, SHALL BE REQ'D DURING INSTALLATION/CONSTRUCTION PROCESS. PRE-INSTALLATION MEETING SHALL BE SCHEDULED W/ LANDSCAPE ARCHITECT, TWO WEEKS PRIOR TO INSTALLATION.
3. A MUNICIPALLY APPROVED LANDSCAPE PLAN IS A LEGAL & BINDING DOCUMENT. NO CHANGES SHALL BE MADE WITHOUT PRIOR NOTIFICATION & SUBSEQUENT WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT & GOVERNING MUNICIPLAITY. (IF REQ'D)
4. LANDSCAPE PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL/ PERTINENT CODES.
5. LANDSCAPE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND PREPARE ONES OWN QUANTITY COUNTS (PRIOR TO BID COST AND COMPARE TO ARCHITECT'S PLANT LIST). LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ATTAINING ACCURATE COUNT OF PLANT MATERIALS SPECIFIED. IN THE EVENT OF DISCREPANCIES, LANDSCAPE CONTRACTOR SHALL BRING TO THE ATTENTION OF LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE LANDSCAPE PLAN. LANDSCAPE PLAN SHALL TAKE PRECEDENCE OVER PLANT LIST.
6. LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO DIGGING, SUNSHINE STATE ONE CALL OF FLORIDA (800) 432-4770.
7. ALL TREES TO BE STAKED IN A GOOD WORKMANLIKE MANNER, NO NAIL STAKING IN TRUNKS PERMITTED. ALL GUYING & STAKING TO BE REMOVED WITHIN 12 MONTHS AFTER PLANTING.
8. ALL PLANTING BEDS TO BE WEED AND GRASS FREE. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED.
9. ALL INVASIVE EXOTIC PLANTS (CAT.1) TO BE REMOVED FROM SITE, PRIOR TO LANDSCAPE ARCHITECTS' FINAL INSPECTION. REFER TO FLORIDA EXOTIC PEST PLANT COUNCIL (FLEPPC) 2015 LIST OF EXOTIC PLANT SPECIES, CAT#1, ONLY.
10. ALL SOD SHALL BE ST. AUGUSTINE 'FLORATAM' SOLID SOD, (UNLESS OTHERWISE NOTED) AND LAID WITH ALTERNATING AND ABUTTING JOINTS. SOD SHALL BE LAID OVER A 2" LAYER OF TOPSOIL. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.
11. MULCH SHALL BE SHREDDED PINE, EUCALYPTUS OR FLORIMULCH (100% MELALEUCA) APPLIED AT A MIN. DEPTH OF 3" OVER PLANTING BEDS. MULCH SHALL NOT APPLIED OVER ANNUAL PLANTING BEDS. MULCH SHALL NOT BE PLACED WITHIN 6" OF TREE & PALM TRUNKS. TOP OF MULCH SHALL NOT EXCEED HEIGHT OF ADJACENT PAVED SURFACES.
12. ALL PLANTED AREAS TO RECEIVE 100% COVERAGE BY AN AUTOMATIC IRRIGATION SYSTEM, WITH A MINIMUM OF 50% OVERLAP. RAIN SENSOR TO BE PROVIDED. IRRIGATION SYSTEM TO BE INSTALLED IN COMPLIANCE W/ FLORIDA BUILDING CODE, (FBC), LATEST EDITION. BUBBLERS SHALL BE INSTALLED ON ALL NEW OR RELOCATED & INSTALLED TREES & PALMS TO AID IN THEIR ESTABLISHMENT. REFER TO IRRIGATION PLAN.
13. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL NEW TREES AND PALMS FOR A PERIOD OF 1-YEAR FROM THE DATE OF INITIAL ACCEPTANCE.
14. ALL GUYING & STAKING SHALL BE REMOVED FROM ALL TREES AND PALMS WITHIN TWELVE MONTHS AFTER PLANTING. EXCEPTIONS REQUIRE WRITTEN AUTHORIZATION FROM THE CITY URBAN FORESTER.

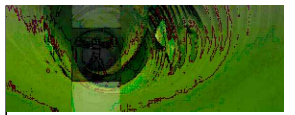
City of Miami Beach Note:

Required Street Trees are subject to the review and approval of the C.I.P. office and P/W Greenspace Division prior to installation.

Qty	Key	Botanical / Common Name	Description	Native Yes / No
4	CES	Conocarpus e. sericeus / Silver Buttonwood <i>Street Trees</i>	14' oa ht, 7' spr, 3" cal, 4' ct.	Yes
4	KF	Krugiodendron ferreum / Black Ironwood	12' oa ht, 6' spr, 2" cal.	Yes
2	BS	Bursera simaruba / Gumbo Limbo	18'-20' oa ht, 8' spr, 5" cal.	Yes
6	CD	Coccoloba diversifolia / Pigeon Plum	12' oa ht, 6' spr, 2" cal.	Yes
(12) Req'd Trees Prov'd				
1	BN	Bismarkia nobilis / Bismarkia Palm	16' ct, 24' oa ht	No
3	CN	Cocos nucifera / Coconut Palm	8,12,16' ct, 20-28' oa hts	Yes
12	SP	Sabal palmetto / Sabal Palm	16-24' oa hts	Yes
14	VM	Veitchia montgomeriana / Veitchia Palm	16'-26' oa hts	No
150	COE	Conocarpus erectus / Green Buttonwood	4-5' ht, 2' spr, 15 gal.	Yes
42	ELD	Elaeocarpus decipiens / Japanese Blueberry	3' ht, 2' spr, 7 gal.	No
(192) Req'd Shrubs, 75% Native				
22	COE1	Conocarpus erectus / Green Buttonwood	6' ht, 3' spr, 25 gal.	Yes
(20) Req'd Tall Shrubs/Small Trees, 100% Native				
7	PHG	Philodendron gloriosum / Gloriosum	2' ht, 2' spr, 7 gal.	No
55	PHB	Philodendron 'Burle Marx' / Burle Marx	18" ht, 18" spr, 3 gal, full	No
40	ALD	Alternanthera dentata / Joseph's Coat	18" ht, 12" spr, 3 gal, full	No
54	DII	Dietsa iriodes / White African Iris	18" ht, 18" spr, 3 gal, full	No
50	LIM	Liriope muscarie / Evergreen Giant Liriope	8" ht, 8" spr, 1 gal.	No

City of Miami Beach, Florida LANDSCAPE LEGEND Chapter 126- Landscape Ordinance			
Zoning District: <u>RS-4</u>		Net Lot Area: <u>.30</u> acres <u>13,000</u> sf	
OPEN SPACE		REQUIRED	PROVIDED
Square Feet of open space required, as indicated on site plan:			
A. Net lot area= 13,000 s.f. x <u>.30</u> %= <u>3900</u> sf		A. 3900	A. 5092
Total square feet of landscaped open space required by Chapter 126 -Table A			
B. Maximum lawn area (sod) permitted= <u>.50</u> % x <u>3900</u> square feet=		B. 1950 sf	B. 5092 sf
C. No. of trees required per net lot acre: <u>RS-4 = 5 Trees (2 front, 3 rear)</u> + 1 tree per 1000 sf > 6000 sf. (0) exist. to remain		C. 5 + 7 =12	C. 12 Prov'd.
D. Less existing number of trees meeting minimum requirements: 30% Natives trees required= the number of trees required x 30% = 50% (min.) shall be low maintenance or drought & salt tolerant species. Diversity: 1-5 req'd= 2 16-20 req'd= 5 Species Req'd 6-10 req'd= 3 21-30 req'd= 6 11-15 req'd= 4 30+ req'd= 7		D. 0 Exist. 4 (3.6) 6 12=4 Species	D. 0 Exist. 4 Species
Palms may be planted in addition. Shall not count as req'd trees.			
E. Street trees (max. avg. spacing @ 20' o.c.): <u> </u> linear feet along street / 20' = <u> </u>		E. N/A	E. N/A
Palms may be planted in addition to req'd street trees. Do not count as req'd.			
F. Street trees located directly beneath power lines (max. avg. spacing @ 20' o.c.): <u>.65</u> linear feet along street / 20' = <u>3.25</u>		F. 4 (3.20)	F. 4 Prov'd
G. Total number of trees provided C+D/E=		G. 16	G. 16 Prov'd
H. Total number of trees req'd (C+D/E) x 12 = the number of shrubs req'd (18-24" ht) The number of shrubs required x 50% = the number of native shrubs req'd (One species cannot exceed 50% of the req'd total.) Shrubs shall be planted to screen equip. at a ht.= to the equip.		H. 192 96	H. 244 Prov'd 143 Prov'd
I. Large shrubs or small trees shall be planted at 10% of the req'd shrub total. & shall be in addition to the shrub total. 50% min. native req'd. Vines shall be a min. of 30" ht. One-to-one basis as a req'd shrub. Groundcovers and grasses shall be planted with a min. of 75% coverage.		I. 20/10	I. 26/26 Prov'd

- LA 100 Landscape Plan
- LA 101 Landscape Notes, Details & Legend
- LA 102 Tree Survey / Disposition Plan
- LA 103 Irrigation Plan



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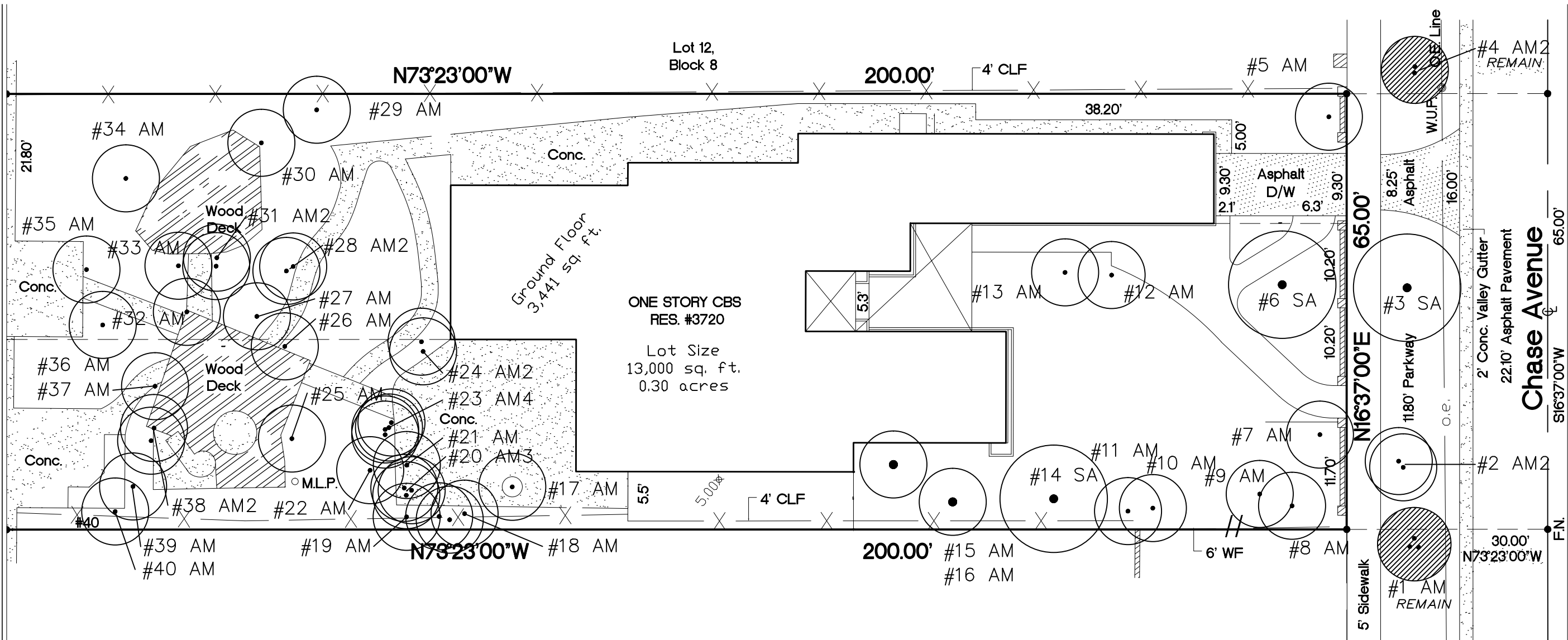
ISSUE DATE:
9-06-18

SHEET TITLE

NOTES,
DETAILS, &
LEGEND

SHEET NUMBER

DRB-LA 101

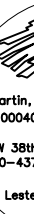


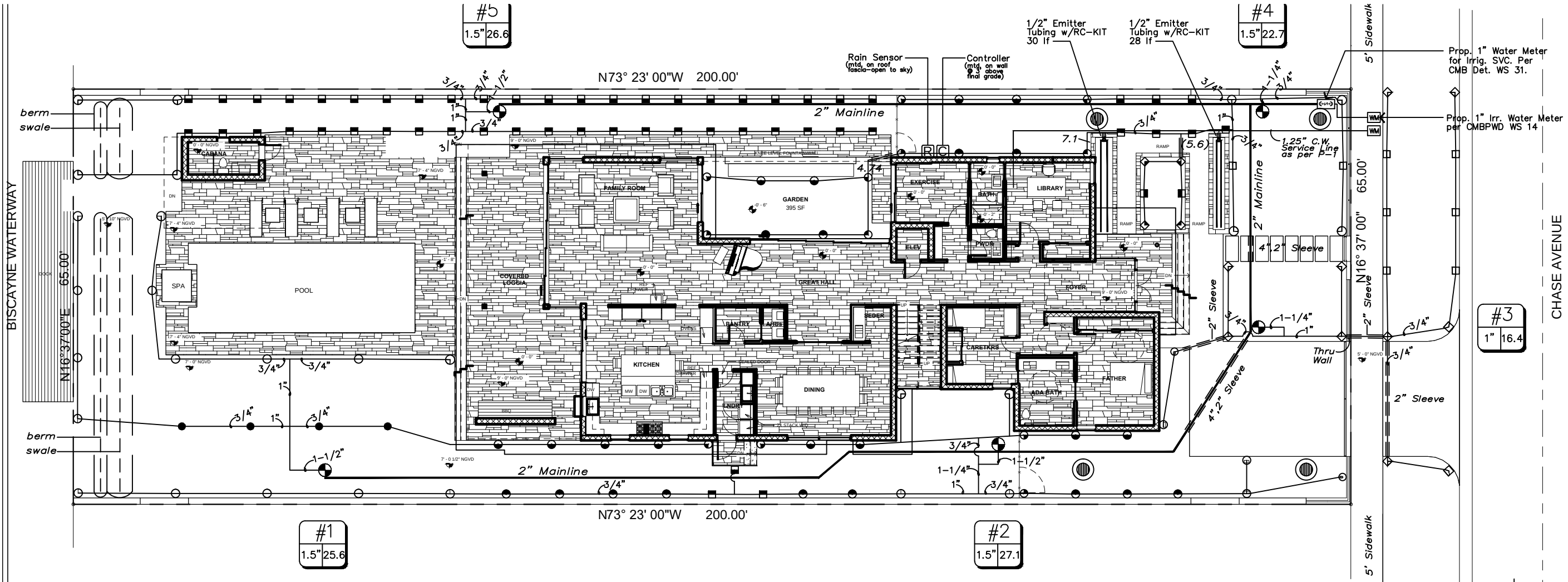
Tree Survey List									
Num	Botanical / Common Name	Disposition	Description				Condition	Notes	
			HT	SPR	DIB1				
#1 AM 4	Adonia merillii / Christmas Palm In R/W	Remain	20'	8'	4"		Good	In R/W On adj. property,	
#2 AM 2	Adonia merillii / Christmas Palm In R/W	--Remove--	20'	8'	4"		Good	In R/W	
#3 SA	Schefflera actinophylla / Umbrella Tree In R/W	--Remove--	20'	15'	2'		Invasive	In R/W Invasive Exotic	
#4 AM 2	Adonia merillii / Christmas Palm In R/W	Remain	20'	8'	5"		Good	In R/W On adj. property,	
#5 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#6 SA	Schefflera actinophylla / Umbrella Tree	--Remove--	20'	8'	1.2'		Invasive	Invasive Exotic	
#7 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#8 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#9 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#10 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Invasive	Invasive Exotic	
#11 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#12 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	5"		Good		
#13 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	5"		Good		
#14 SA	Schefflera actinophylla / Umbrella Tree	--Remove--	20'	8'	2'		Good		
#15 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#16 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#17 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	5"		Good		
#18 AM 3	Adonia merillii / Christmas Palm	--Remove--	20'	8'	5"		Good		
#19 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		
#20 AM 4	Adonia merillii / Christmas Palm	--Remove--	20'	8'	5"		Good		
#21 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	5"		Good		
#22 AM	Adonia merillii / Christmas Palm	--Remove--	20'	8'	4"		Good		

#23 AM 4	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	5"	Good	
#24 AM 2	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#25 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#26 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#27 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#28 AM 2	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#29 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#30 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#31 AM 2	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#32 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#33 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#34 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#35 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#36 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#37 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#38 AM 2	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#39 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	
#40 AM	Adonidia merrillii / Christmas Palm	--Remove--	20'	8'	4"	Good	

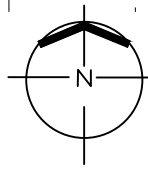
(0) Trees to remain on-site.
(2) Christmas Palms to remain.
#1, 4 AMs on the adjacent property
Right-of-Ways.

LA 100 Landscape Plan
LA 101 Landscape Notes, Details & Legend
LA 102 Tree Survey / Disposition Plan
LA 103 Irrigation Plan

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 H.L. Martin, Landscape Architect, P.A. L.C.# 26000404 LA #0001722 5965 SW 38th Street, Miami, Florida 33155 305 790-4372, himartin@bellsouth.net Herbert Lester Martin, Landscape Architect	
LIEBERMAN FAMILY NEW SINGLE FAMILY RESIDENCE 3720 CHASE AVENUE MIAMI BEACH, FL	
ISSUE DATE: 9-06-18	
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TREE SURVEY DISPOSITION PLAN	
SHEET NUMBER	
DRB-LA 102	



Irrigation Plan
1" = 16'-0"



LAYOUT

LAYOUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE ALL NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES

FLAG ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES ETC. REQUIRED TO INSURE 100% COVERAGE.

PIPE

PIPE LOCATIONS SHOWN ON PLAN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING-OUT MAINS AND LATRALS, LOCATE PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. PIPING UNDER HARDSCAPES SUCH AS ROADS, WALKS, AND PATIOS ARE TO BE SLEEVED USING SCH. 40 PIPE.

- *SIZE ALL PIPE SO NOT TO EXCEED 5' PER SECOND
- *INSTALL RAIN SENSOR AS PER LOCAL CODE

FLUSHING

PRIOR TO PLACEMENT OF HEADS FLUSH ALL LINES UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS.

IRRIGATION PLAN EQUIPMENT TABLE	
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 8' qtr.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 8' half
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 10' qtr.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 10' half.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 10' half.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 12' qtr.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 12' third.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 12' half
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' qtr.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' half.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' Strip Series-End.
	6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' Strip Series-End.
	1/2" Emitter Tubing, Flexible XF Series Dripline, 58 lf.
	(2) RC Kit to Connect Emitter Tubing
	1", 1.5" Valves by Rainbird, in Carson Valve Box
	2" Mainline, Schedule 40 PVC
	Sleeves, Schedule 40 PVC
	Lateral Lines, Schedule 160 pvc
	Controller, ESP Modular Series 6 Stations
	Rain Sensor, by Miniclik
	1" Ø R.P.Z. for Irr. SVC as per CMB det. WS 31
	Prop. 1" Irrigation Water Meter as per CMBPWD WS 14

- LA 1.0 Landscape Plan
- LA 1.1Landscape Notes, Details & Legend
- LA 1.2 Tree Survey / Disposition Plan
- LA 1.3 Irrigation Plan

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SEAL

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DRB-LA 103