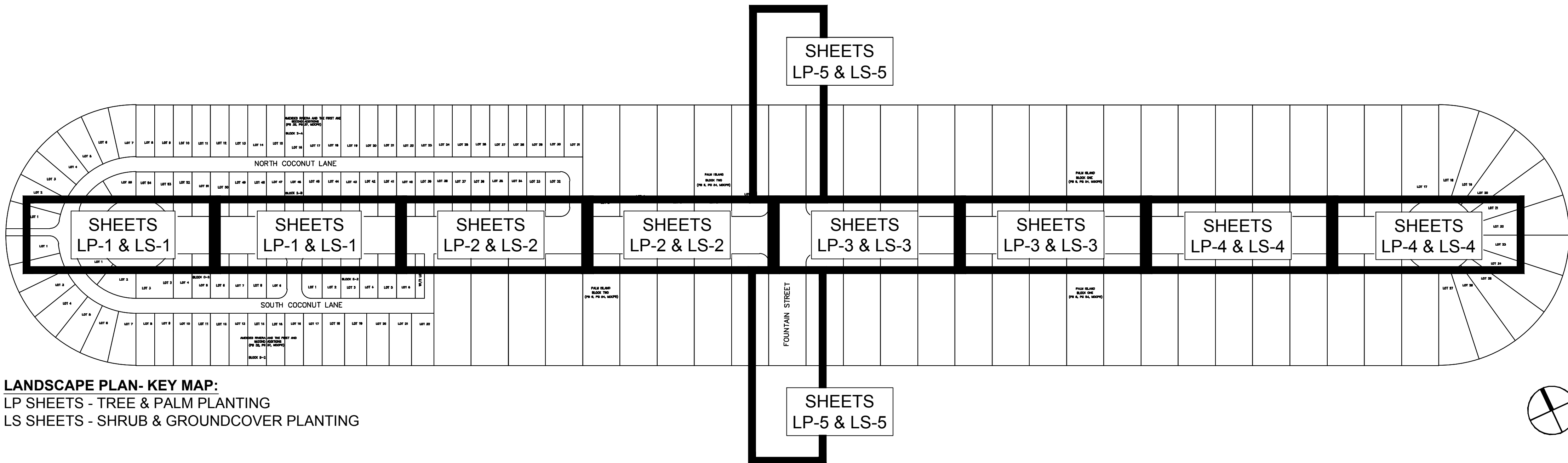
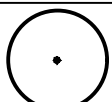
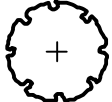
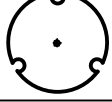
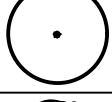
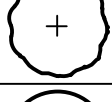
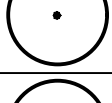
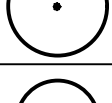
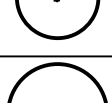
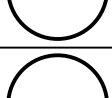
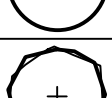
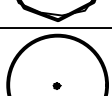
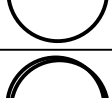
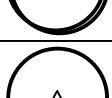
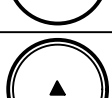
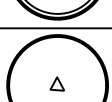
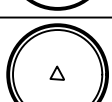
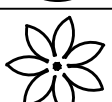




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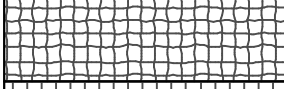
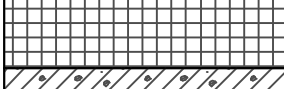
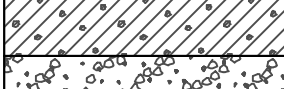
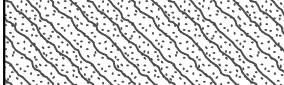
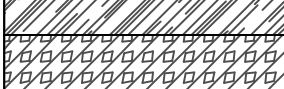
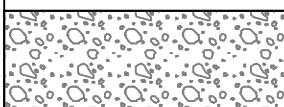
LP SHEETS - TREE & PALM PLANTING

LS SHEETS - SHRUB & GROUND COVER PLANTING

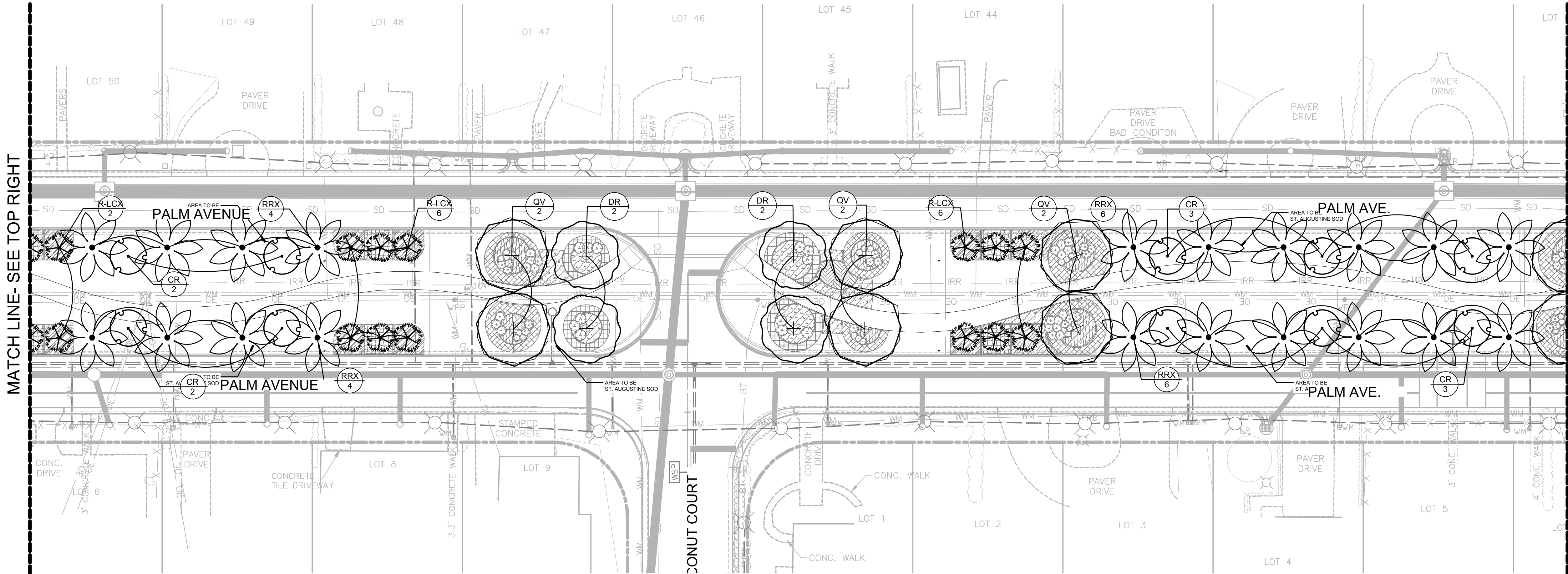
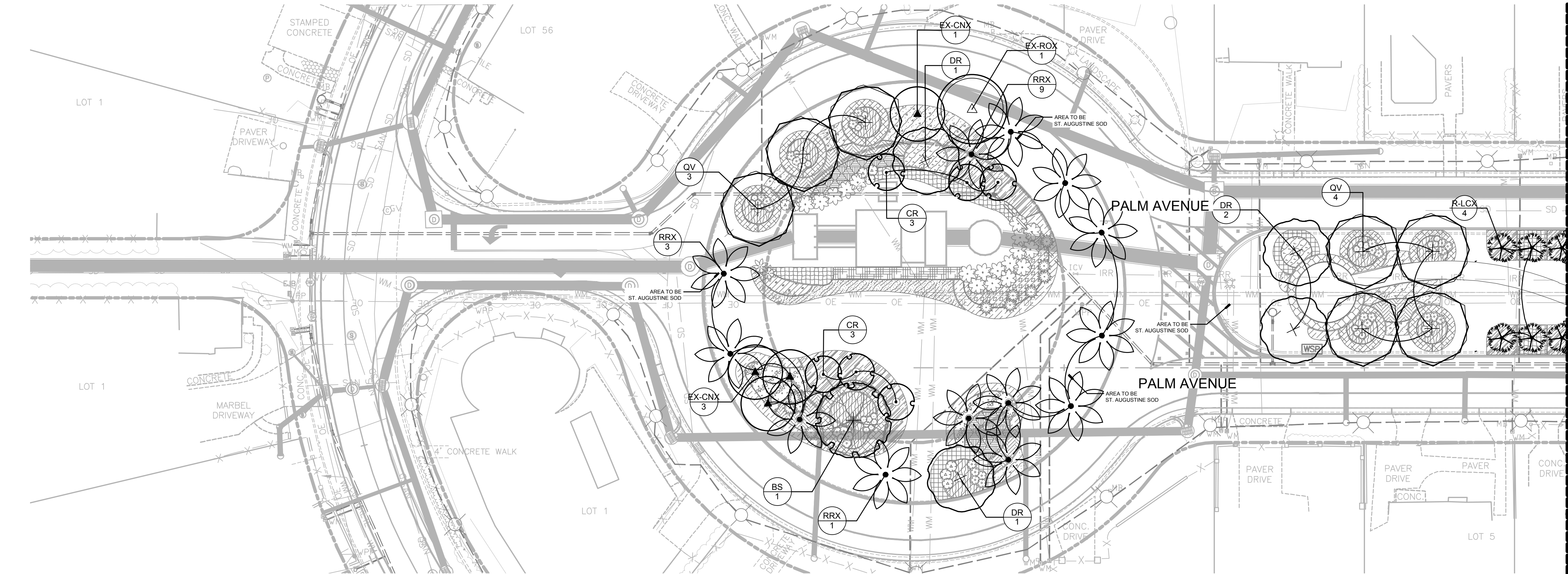
TREE & PALM PLANTING SCHEDULE					
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
	EX-BA	1	Bulnesia arborea	Verawood	EXISTING TREE
	BS	2	Bursera simaruba	Gumbo Limbo	Specimen, Min. 25' HT. Full Canopy
	CR	66	Clusia rosea	Autograph Tree	3" DBH, 12' HT. X 6' SPRD.
	EX-CU	1	Coccoloba uvifera	Existing Sea Grape	EXISTING TREE
	DR	23	Delonix regia	Royal Poinciana	3" DBH, 14'-16' HT. X 6' SPRD.
	EX-DR	4	Delonix regia	Existing Royal Poinciana	EXISTING TREE
	EX-FD	3	Filicium decipiens	Existing Japanese Fern Tree	EXISTING TREE
	EX-HB	2	Hibiscus spp.	Existing Hibiscus	EXISTING TREE
	EX-LF	4	Lagerstroemia fauriei	Existing Crape Myrtle	EXISTING TREE
	EX-LS	4	Lysiloma sabicu	Existing Wild Tamarind	EXISTING TREE
	QV	18	Quercus virginiana	Live Oak	3" DBH, 14'-16' HT. X 6' SPRD.
	EX-TH	2	Tabebuia heterophylla	Existing Pink Tabebuia	EXISTING TREE
PALM TREES					
	EX-CNX	46	Cocos nucifera	Existing Coconut Palm	EXISTING PALM
	EX-DDX	4	Dypsis decaryi	Existing Triangle Palm	EXISTING PALM
	EX-LCX	2	Livistona chinensis	Existing Chinese Fan Palm	12" OA HT. MATCH HEIGHT
	EX-PDX	10	Phoenix dactylifera 'Medjool'	Existing Date Palm	EXISTING PALM
	EX-PEX	4	Ptychosperma elegans	Existing Alexander Palm	EXISTING PALM
	EX-ROX	8	Roystonea elata	Existing Royal Palm	EXISTING PALM
	RRX	125	Roystonea regia	Royal Palm	28' OA. -TO MATCH
RELOCATED TREES/PALMS					
	R-LCX	120	Relocated	Relocated Fan Palm	RELOCATED PALM

NOTES:

1. SEE LS SHEETS FOR SHRUB & GROUND COVER PLANTING
2. ALL SOD AREAS TO BE ST. AUGUSTINE - *Stenotaphrum secundatum*

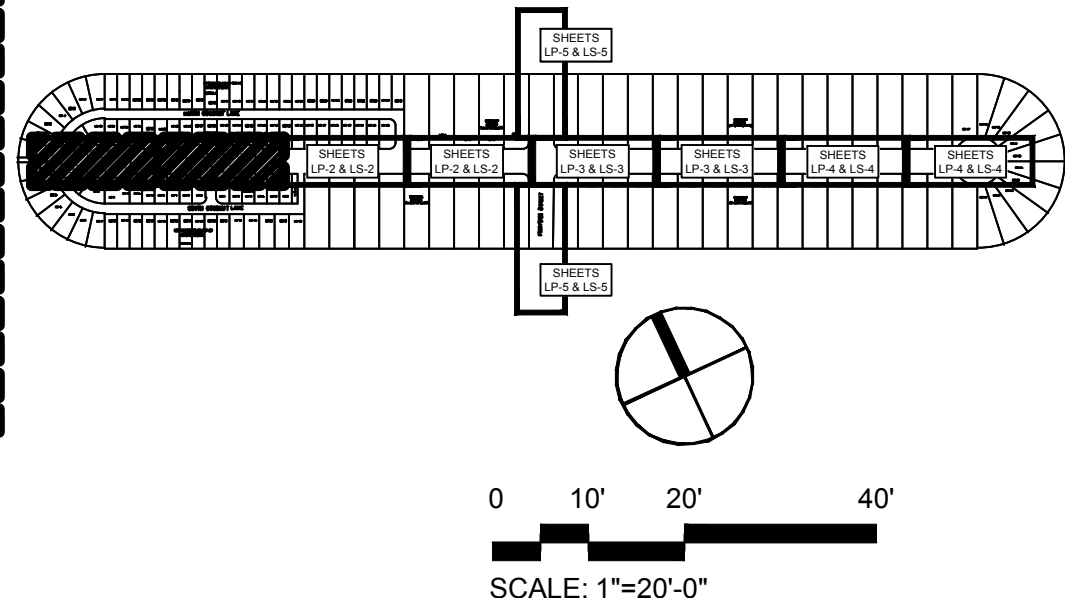
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	
	ALP	58	Alpinia purpurata	Red Ginger	2.5' HT x 3' SPRD	
	COR	96	Cordyline fruticosa 'Red Sister'	Red Sister Ti	3' HT X 2' SPRD	
	CRA	40	Crinum augustum 'Queen Emma'	'Queen Emma' Crinum	4' HT x 4' SPRD	
	ELD	7	Elaeocarpus decipiens TM	Japanese Blueberry Tree	5' HT x 4' SPRD	
	HEL	32	Heliconia rostrata	Lobster Claw Heliconia	5' HT. FULL	
	PHS	70	Philodendron bipinnatifidum-selloum	Split Leaf Philodendron	24" HT X 24" SPRD.	
	PHR	88	Philodendron x 'Rojo Congo'	Rojo Congo Philodendron	2.5' HT x 2.5 SPR	
	STN	26	Strelitzia nicotai	Giant Bird of Paradise	6' HT. FULL	
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	SPACING
	ALZ	472	Alpinia zerumbet 'Variegata'	Variegated Shell Ginger	24" HT X 24" SPRD.	30" o.c.
	CHI	897	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	24" HT X 24" SPRD.	24" o.c.
	COS	717	Conocarpus erectus 'Sericeus'	Silver Buttonwood	24"HT x 24"SPRD	24" o.c.
	FIM	2,249	Ficus microcarpa 'Green Island'	Green Island Ficus	12"HT x 12" SPRD	16" o.c.
	HAN	66	Hamelia nodosa	Dwarf Firebush	18" HT x 18" SPRD	18" o.c.
	HIB	274	Hibiscus rosa-sinensis 'Seminole Pink'	Hibiscus	24" HT X 24" SPRD.	30" o.c.
	JAM	695	Jasminum multiflorum	Downey Jasmine	16" HT. X 16" SPRD.	24" o.c.
	LIM	1,932	Liriope muscari 'Evergreen Giant'	Evergreen Giant Border Grass	12"HT x 12" SPRD	16" o.c.
	MUC	581	Muhlenbergia capillaris	Pink Muhly	18" HT	24" o.c.
	NEM	447	Nephrolepis biserrata 'Macho Fern'	Macho Fern	24" HT X 24" SPRD.	24" o.c.
	NEE	370	Nephrolepis exaltata	Boston Fern	12" Ht. x 12" Sprd.	12" o.c.
	OPI	2,053	Ophiopogon intermedius 'Argenteomarginatus'	Varigated Aztec Grass	12"HT x 12" SPRD	14" o.c.
	PHB	1,542	Philodendron 'Burle Marx'	Burle Marx Philodendron	12"HT x 12" SPRD	18" o.c.
	PHX	716	Philodendron x 'Xanadu'	Xanadu	18"HT x 18"SPRD	18" o.c.
	SER	94	Serenoa repens 'Cinerea'	Silver Saw Palmetto	18"HT x 18"SPRD	30" o.c.
	TRF	1,859	Tripsacum floridanum	Florida Gamagrass	2'-2.5' HT	24" o.c.
	ZAM	337	Zamia pumila	Coontie	18" HT x 18" SPRD	24" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	SPACING
	ANN	1,680	Annuals	Annuals	4"	10" o.c.

R:\Landscapa\2017\17-0027-001-01 - Palm & Hibiscus Island\Drawings\17-0027_LA-Palm_Tree Layout.dwg [LP-1] May 17, 2019 2:58pm CPH\LLIPS



TREE & PALM LEGEND		
TREES	CODE	COMMON NAME
	EX-BA	Verawood
	BS	Gumbo Limbo
	CR	Autograph Tree
	EX-CU	Existing Sea Grape
	DR	Royal Poinciana
	EX-DR	Existing Royal Poinciana
	EX-FD	Existing Japanese Fern Tree
	EX-HB	Existing Hibiscus
	EX-LF	Existing Crape Myrtle
	EX-LS	Existing Wild Tamarind
	QV	Live Oak
	EX-TH	Existing Pink Tabebuia
PALM TREES	CODE	COMMON NAME
	EX-CNX	Existing Coconut Palm
	EX-DDX	Existing Triangle Palm
	EX-LCX	Existing Chinese Fan Palm
	EX-PDX	Existing Date Palm
	EX-PEX	Existing Alexander Palm
	EX-ROX	Existing Royal Palm
	RRX	Royal Palm
RELOCATED TREES/PALMS	CODE	COMMON NAME
	R-LCX	Relocated Fan Palm

NOTE:
SEE LS SHEETS FOR SHRUB & GROUNDCOVER PLANTING



01/04/19
1"-20"
SWP
SWP
JDH
SWP

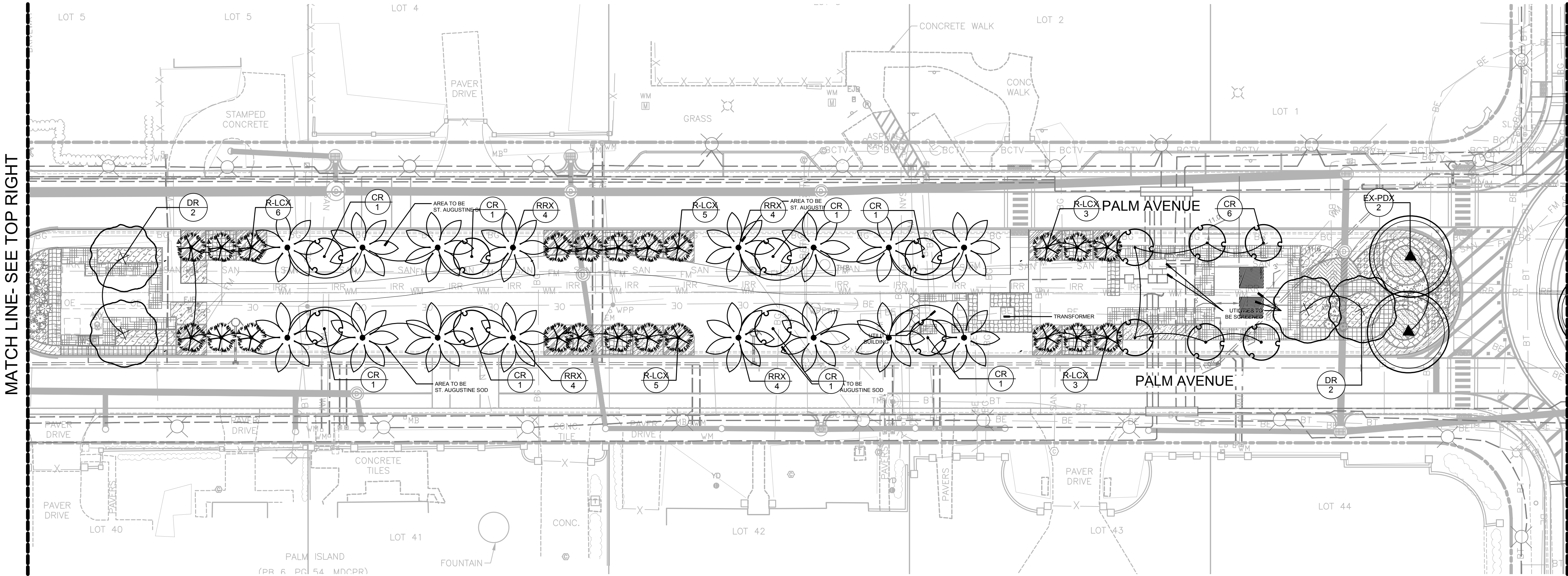
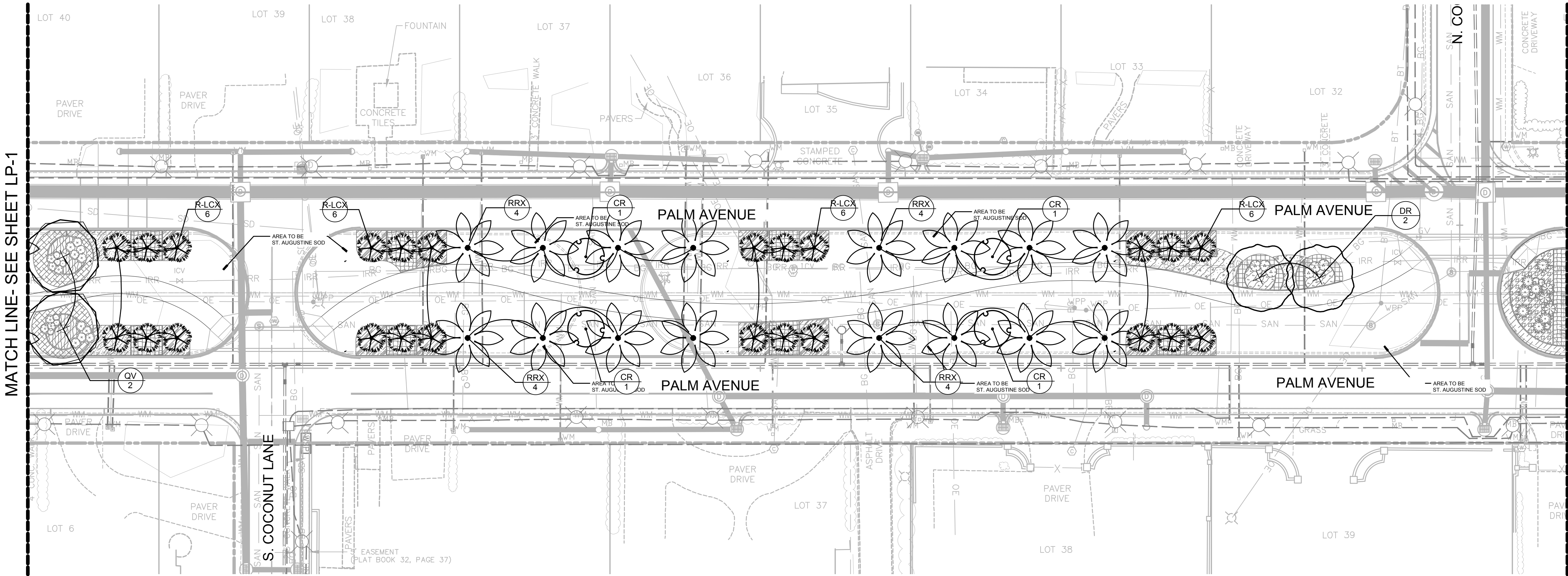
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SCALE:
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CITY OF MIAMI BEACH
LANDSCAPE PLAN

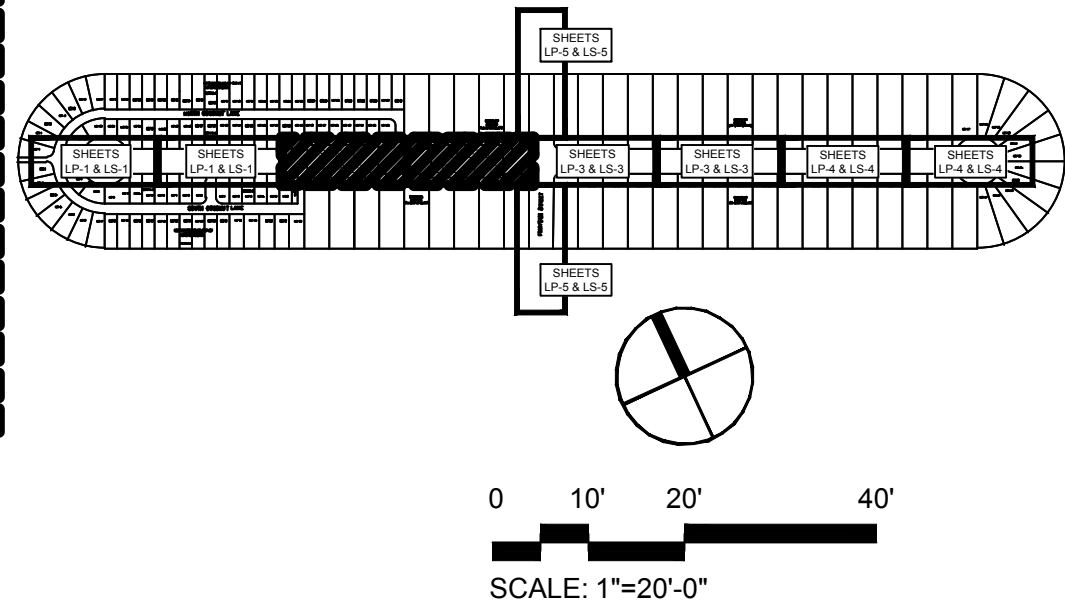
Scott W. Peaver, R.L.A.
Florida R.L.A. No. 6666976
PROJECT NO.
17-0027-001-01
LP-1
SHEET X OF X

R:\Landscapa\2017\17-0027-001-01 - Palm & Hibiscus Island\Drawings\17-0027_LA-Palm_Tree Layout.dwg [LP-2] May 17, 2019 2:59pm CHILLIPS



TREE & PALM LEGEND		
TREES	CODE	COMMON NAME
	EX-BA	Verawood
	BS	Gumbo Limbo
	CR	Autograph Tree
	EX-CU	Existing Sea Grape
	DR	Royal Poinciana
	EX-DR	Existing Royal Poinciana
	EX-FD	Existing Japanese Fern Tree
	EX-HB	Existing Hibiscus
	EX-LF	Existing Crape Myrtle
	EX-LS	Existing Wild Tamarind
	QV	Live Oak
	EX-TH	Existing Pink Tabebuia
PALM TREES	CODE	COMMON NAME
	EX-CN	Existing Coconut Palm
	EX-DD	Existing Triangle Palm
	EX-LCX	Existing Chinese Fan Palm
	EX-PDX	Existing Date Palm
	EX-PEX	Existing Alexander Palm
	EX-ROX	Existing Royal Palm
	RRX	Royal Palm
RELOCATED TREES/PALMS	CODE	COMMON NAME
	R-LCX	Relocated Fan Palm

NOTE:
SEE LS SHEETS FOR SHRUB & GROUND COVER PLANTING



01/04/19

1"-20"

SWP

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JDH

SWP

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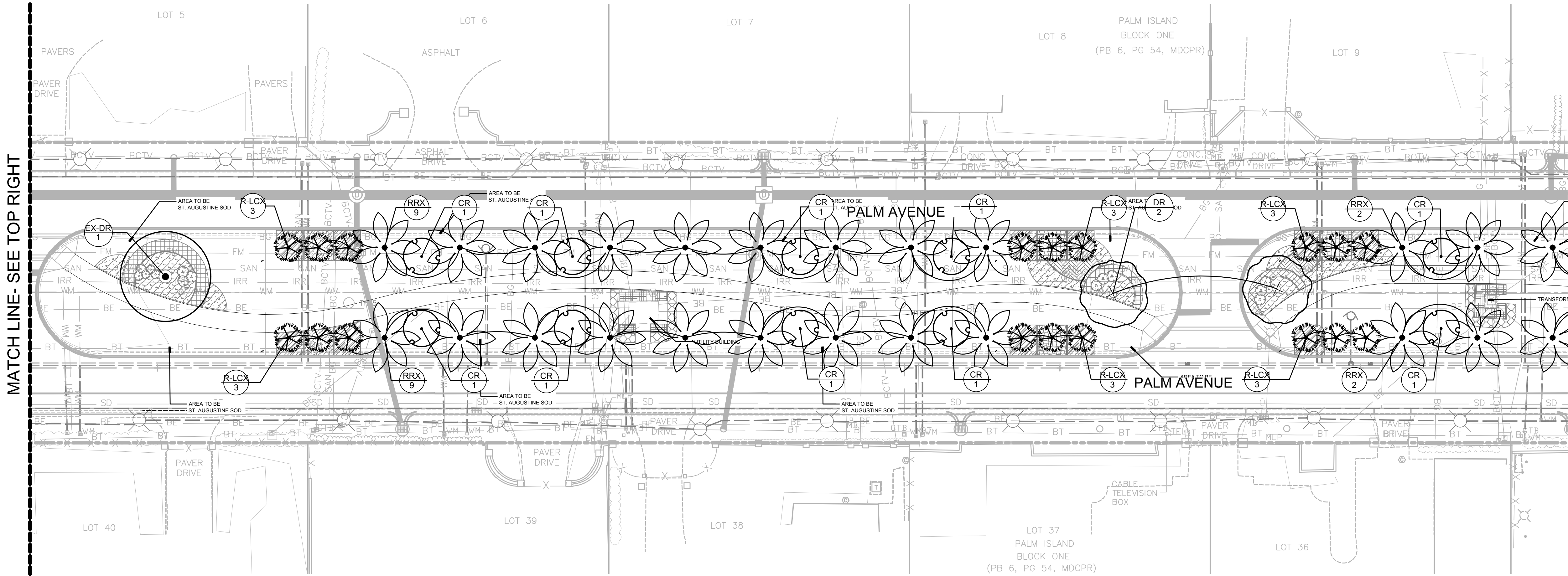
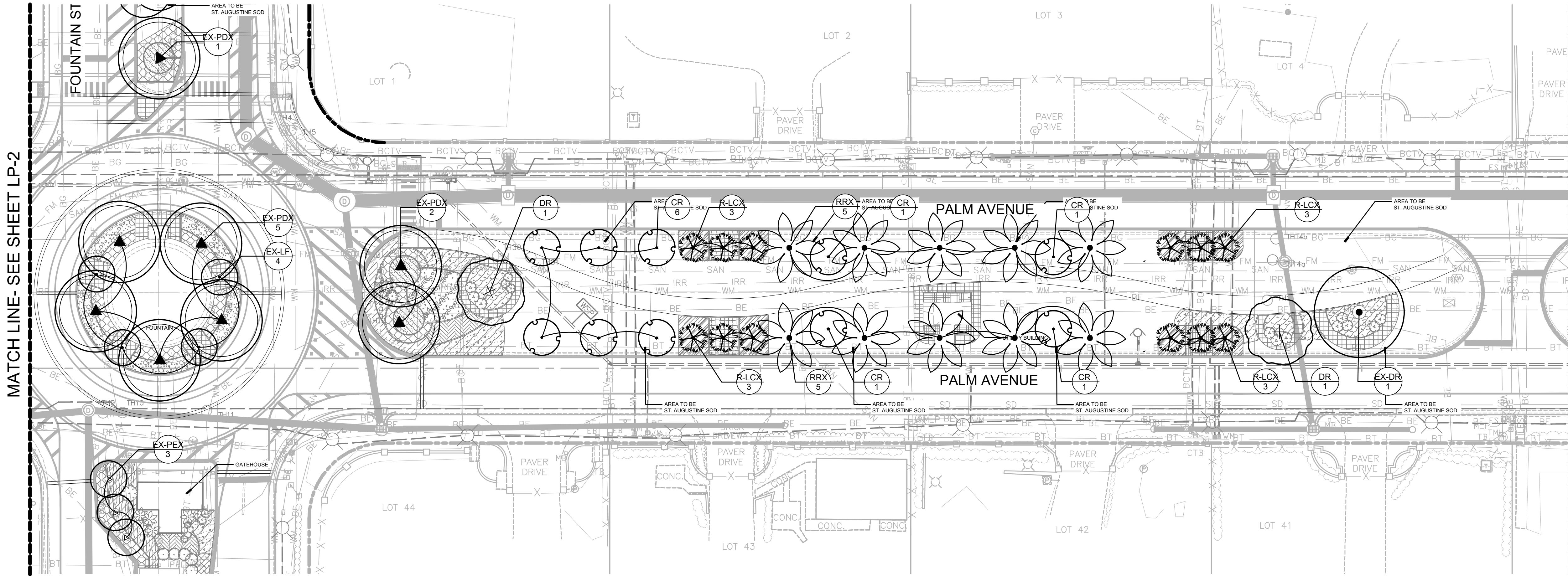
LANDSCAPE PLAN

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Florida R.L.A. No. 6666976

PROJECT NO.
17-0027-001-01

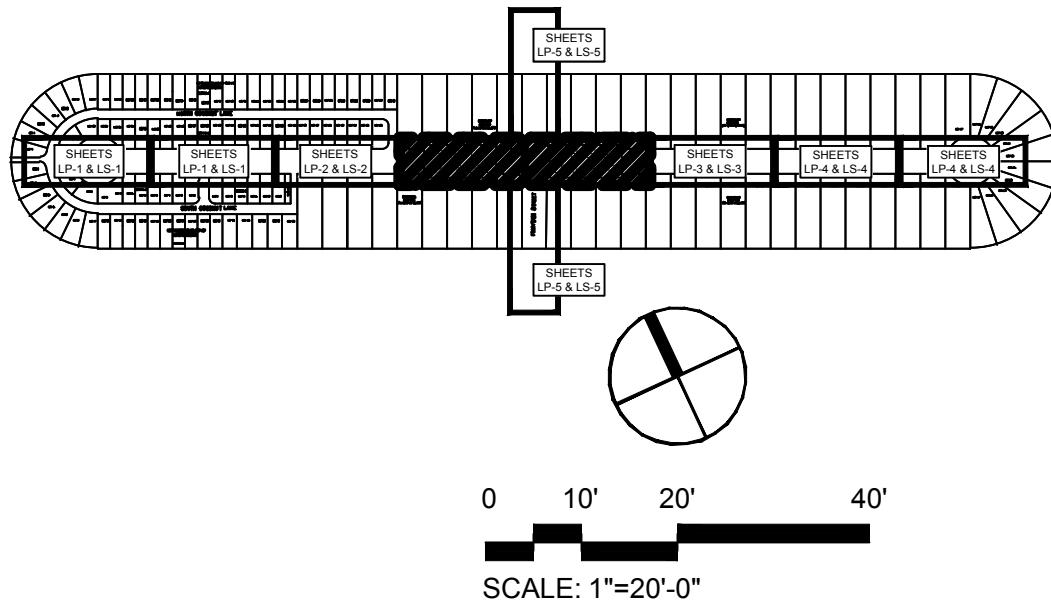
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TREE & PALM LEGEND		
TREES	CODE	COMMON NAME
	EX-BA	Verawood
	BS	Gumbo Limbo
	CR	Autograph Tree
	EX-CU	Existing Sea Grape
	DR	Royal Poinciana
	EX-DR	Existing Royal Poinciana
	EX-FD	Existing Japanese Fern Tree
	EX-HB	Existing Hibiscus
	EX-LF	Existing Crape Myrtle
	EX-LS	Existing Wild Tamarind
	QV	Live Oak
	EX-TH	Existing Pink Tabebuia
PALM TREES	CODE	COMMON NAME
	EX-CN	Existing Coconut Palm
	EX-DD	Existing Triangle Palm
	EX-LC	Existing Chinese Fan Palm
	EX-PD	Existing Date Palm
	EX-PE	Existing Alexander Palm
	EX-RO	Existing Royal Palm
	RR	Royal Palm
RELOCATED TREES/PALMS	CODE	COMMON NAME
	R-LC	Relocated Fan Palm

NOTE:
SEE LS SHEETS FOR SHRUB & GROUND COVER PLANTING



01/04/19

1'-20'

SWP

SWP

JDH

SWP

DATE:

SCALE:

DESIGN BY:

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PREPARED FOR:

CITY OF MIAMI BEACH

LANDSCAPE PLAN

Scott W. Peaver, R.L.A.

Florida R.L.A. No. 6666976

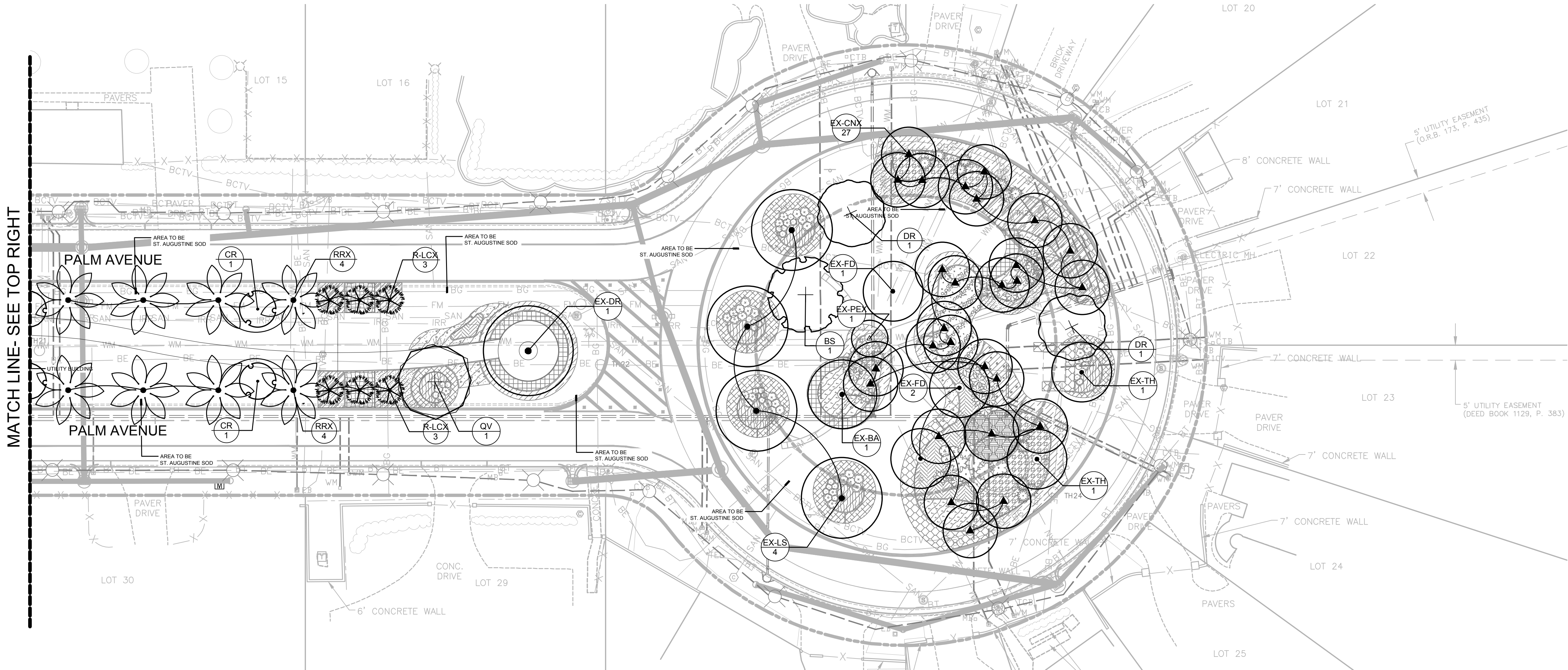
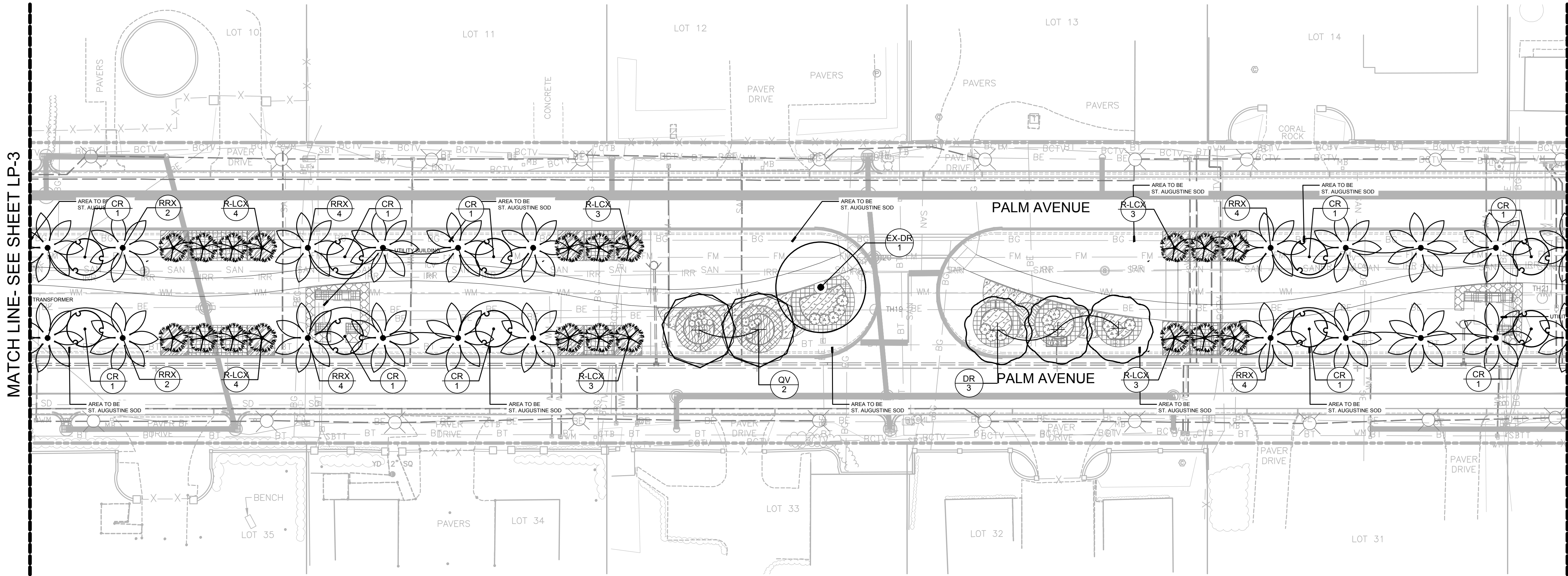
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LP-3

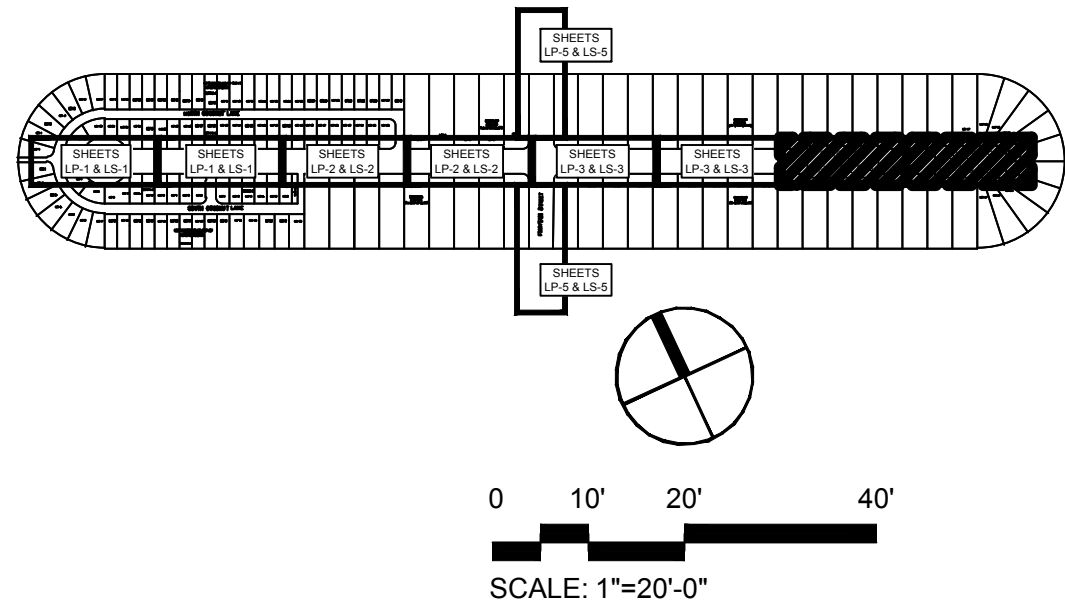
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R:\Landscapa\2017\17-0027-001-01 - Palm & Hibiscus Island\Drawings\17-0027_LA-Palm_Tree Layout.dwg [LP-4] May 17, 2019 3:00pm CPHILLIPS



TREE & PALM LEGEND		
TREES	CODE	COMMON NAME
	EX-BA	Verawood
	BS	Gumbo Limbo
	CR	Autograph Tree
	EX-CU	Existing Sea Grape
	DR	Royal Poinciana
	EX-DR	Existing Royal Poinciana
	EX-FD	Existing Japanese Fern Tree
	EX-HB	Existing Hibiscus
	EX-LF	Existing Crape Myrtle
	EX-LS	Existing Wild Tamarind
	QV	Live Oak
	EX-TH	Existing Pink Tabebuia
PALM TREES	CODE	COMMON NAME
	EX-CNX	Existing Coconut Palm
	EX-DDX	Existing Triangle Palm
	EX-LCX	Existing Chinese Fan Palm
	EX-PDX	Existing Date Palm
	EX-PEX	Existing Alexander Palm
	EX-ROX	Existing Royal Palm
	RRX	Royal Palm
RELOCATED TREES/PALMS	CODE	COMMON NAME
	R-LCX	Relocated Fan Palm

NOTE:
SEE LS SHEETS FOR SHRUB & GROUNDCOVER
PLANTING



01/04/19

1"-20"

SWP

SWP

JDH

SWP

DATE:

SCALE:

DESIGN BY:

DRAWN BY:

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LANDSCAPE PLAN

PROJECT NO.

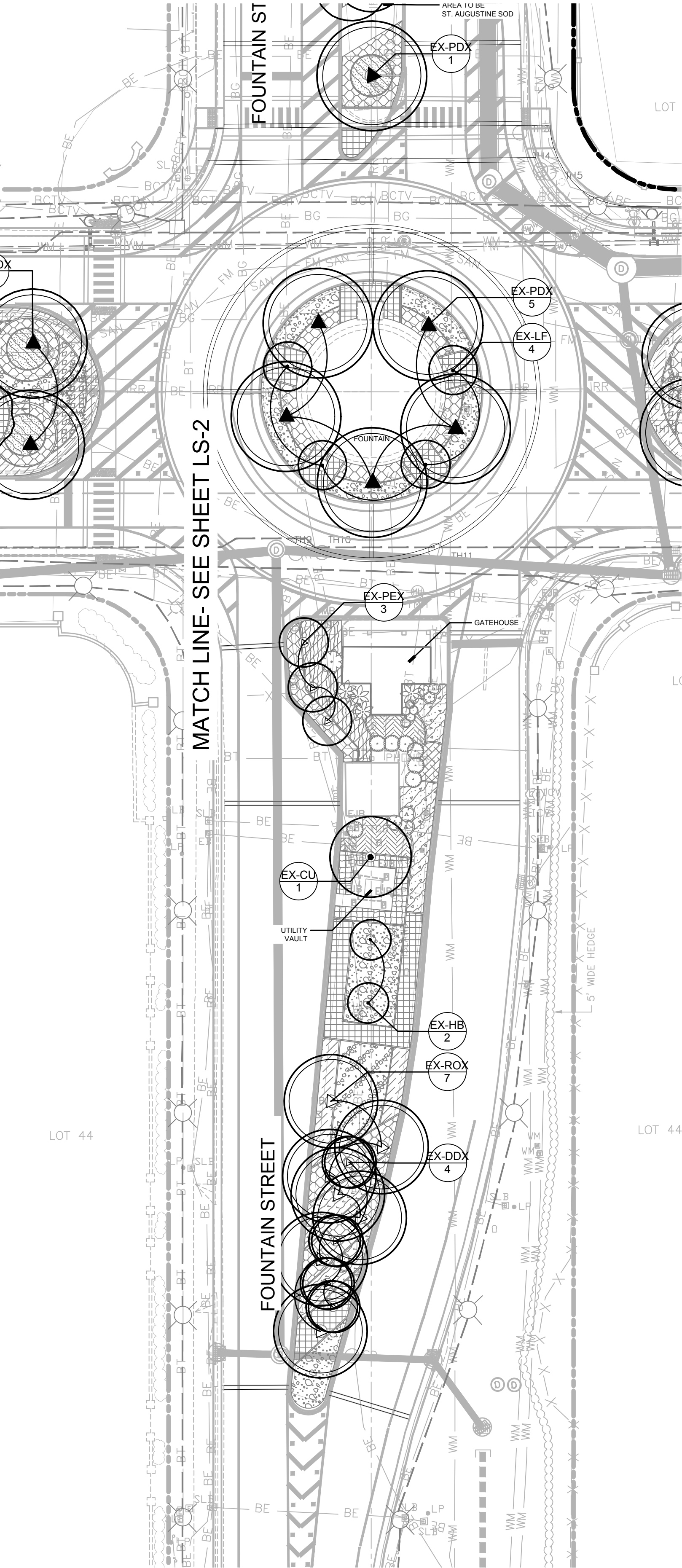
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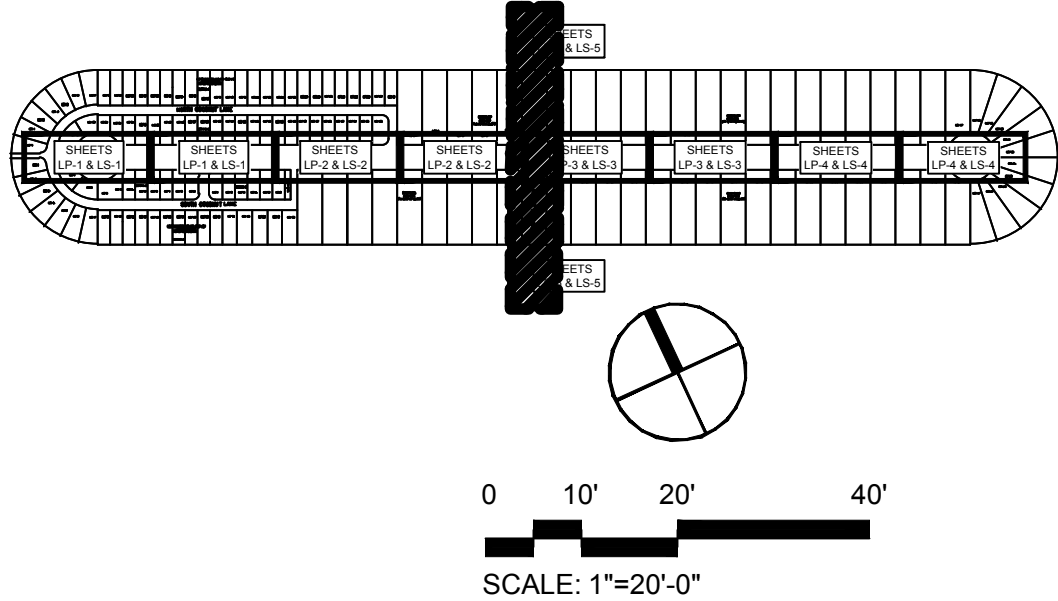
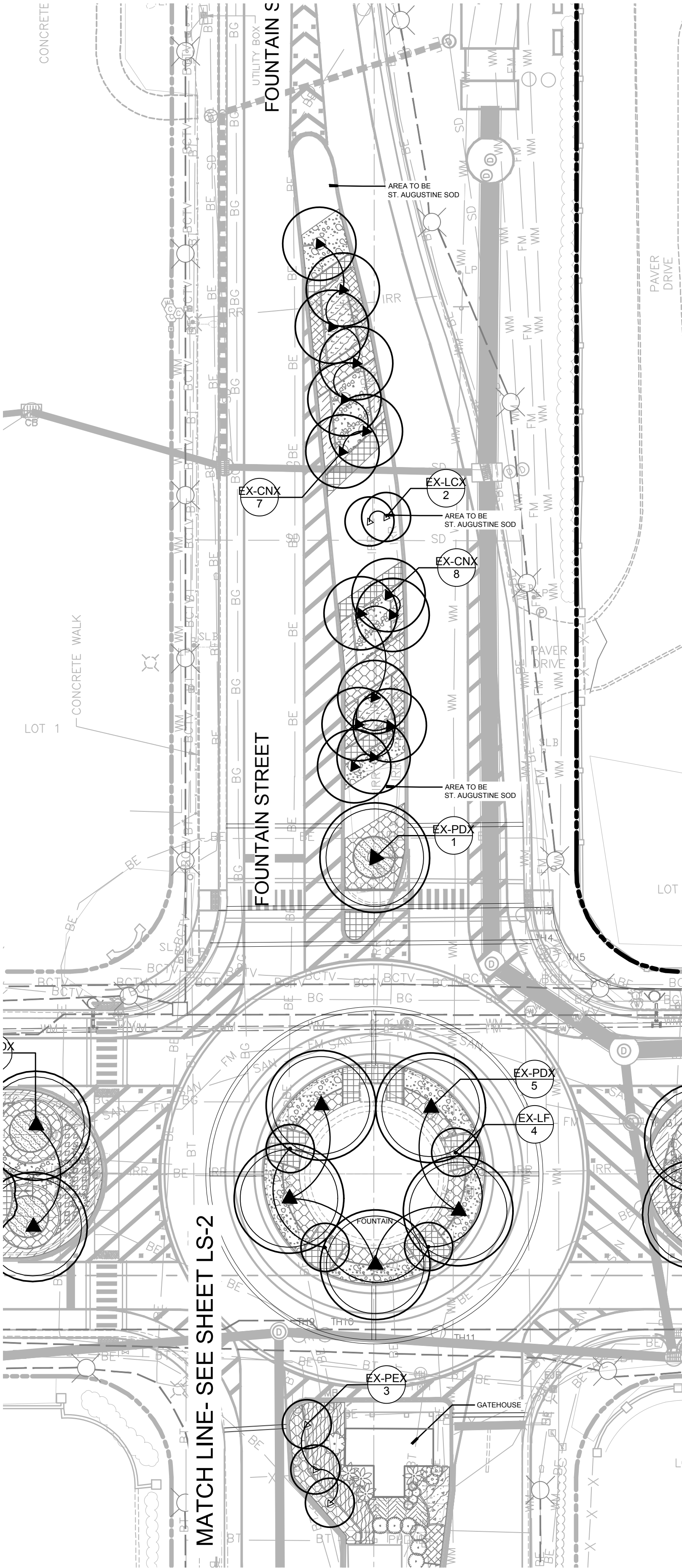
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MATCH LINE- SEE SHEET LP-5



MATCH LINE- SEE SHEET LP-5



TREE & PALM LEGEND		
TREES	CODE	COMMON NAME
	EX-BA	Verawood
	BS	Gumbo Limbo
	CR	Autograph Tree
	EX-CU	Existing Sea Grape
	DR	Royal Poinciana
	EX-DR	Existing Royal Poinciana
	EX-FD	Existing Japanese Fern Tree
	EX-HB	Existing Hibiscus
	EX-LF	Existing Crape Myrtle
	EX-LS	Existing Wild Tamarind
	QV	Live Oak
	EX-TH	Existing Pink Tabebuia
PALM TREES	CODE	COMMON NAME
	EX-CNX	Existing Coconut Palm
	EX-DDX	Existing Triangle Palm
	EX-LCX	Existing Chinese Fan Palm
	EX-PDX	Existing Date Palm
	EX-PEX	Existing Alexander Palm
	EX-ROX	Existing Royal Palm
	RRX	Royal Palm
RELOCATED TREES/PALMS	CODE	COMMON NAME
	R-LCX	Relocated Fan Palm

NOTE:
SEE LS SHEETS FOR SHRUB & GROUNDCOVER
PLANTING

01/04/19

1"=20'

SWP

SWP

JDH

SWP

DATE:

SCALE:

DESIGN BY:

DRAWN BY:

CHECKED BY:

APPROVED BY:

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PALM ISLAND

CITY OF MIAMI BEACH, FLORIDA

PREPARED FOR:

CITY OF MIAMI BEACH

LANDSCAPE PLAN

Scott W. Peavler, R.L.A.

Florida R.L.A. No. 6666976

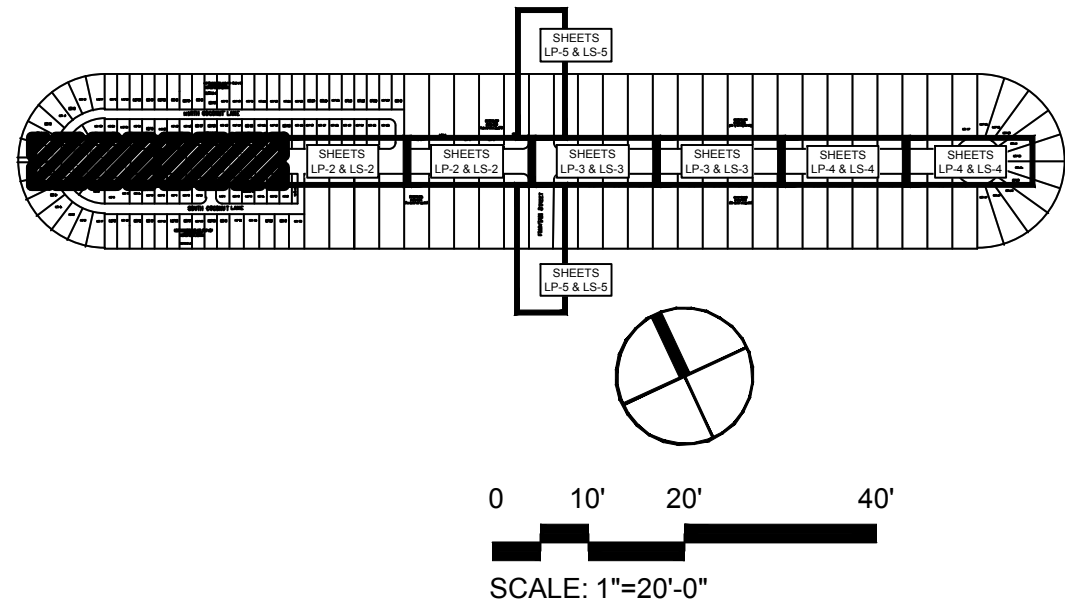
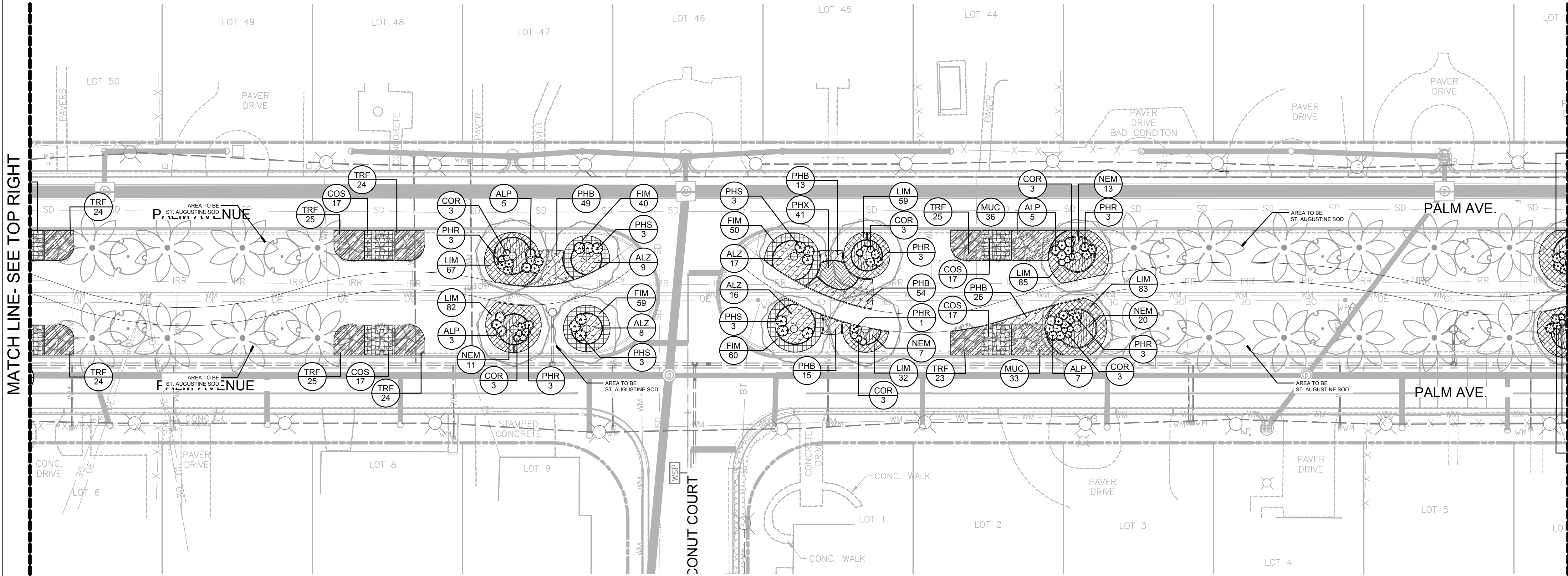
PROJECT NO.

17-0027-001-01

LP-5

SHEET X OF X

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NOTE:
SEE LP SHEETS FOR TREE & PALM PLANTING

SHRUB PLANTING LEGEND		
SHRUBS	CODE	COMMON / BOTANICAL NAME
	ALP	Red Ginger <i>Alpinia purpurata</i>
	COR	Red Sister Ti <i>Cordyline fruticosa</i> 'Red Sister'
	CRA	'Queen Emma' Crinum <i>Crinum augustum</i> 'Queen Emma'
	ELD	Japanese Blueberry Tree <i>Elaeocarpus decipiens</i> TM
	HEL	Lobster Claw Heliconia <i>Heliconia rostrata</i>
	PHS	Split Leaf Philodendron <i>Philodendron bipinnatifidum-selloum</i>
	PHR	Rojo Congo Philodendron <i>Philodendron</i> x 'Rojo Congo'
	STN	Giant Bird of Paradise <i>Streititzia nicolai</i>
SHRUB AREAS	CODE	COMMON / BOTANICAL NAME
	ALZ	Variegated Shell Ginger <i>Alpinia zerumbet</i> 'Variegata'
	CHI	Red Tip Cocoplum <i>Chrysobalanus icaco</i> 'Red Tip'
	COS	Silver Buttonwood <i>Conocarpus erectus</i> 'Sericeus'
	FIM	Green Island Ficus <i>Ficus microcarpa</i> 'Green Island'
	HAN	Dwarf Firebush <i>Hamelia nodosa</i>
	HIB	Hibiscus <i>Hibiscus rosa-sinensis</i> 'Seminole Pink'
	JAM	Downey Jasmine <i>Jasminum multiflorum</i>
	LIM	Evergreen Giant Border Grass <i>Liriope muscari</i> 'Evergreen Giant'
	MUC	Pink Muhly <i>Muhlenbergia capillaris</i>
	NEM	Macho Fern <i>Nephrolepis biserrata</i> 'Macho Fern'
	NEE	Boston Fern <i>Nephrolepis exaltata</i>
	OPI	Aztec Grass <i>Ophiopogon intermedius</i> 'Argenteomarginatus'
	PHB	Burle Marx Philodendron <i>Philodendron</i> 'Burle Marx'
	PHX	Xanadu Philodendron x 'Xanadu'
	SER	Silver Saw Palmetto <i>Serenoa repens</i> 'Cinerea'
	TRF	Florida Gamagrass <i>Tripsacum floridanum</i>
	ZAM	Coontie <i>Zamia pumila</i>
GROUND COVERS	CODE	COMMON / BOTANICAL NAME
	ANN	Annuals Annuals

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PALM ISLAND
CITY OF MIAMI BEACH, FLORIDA

PREPARED FOR:
CITY OF MIAMI BEACH

SHRUB PLANTING PLAN

DATE: 01/04/19

SCALE: 1"=20'

DESIGN BY: SWP

DRAWN BY: SWP

CHECKED BY: JDH

APPROVED BY: SWP

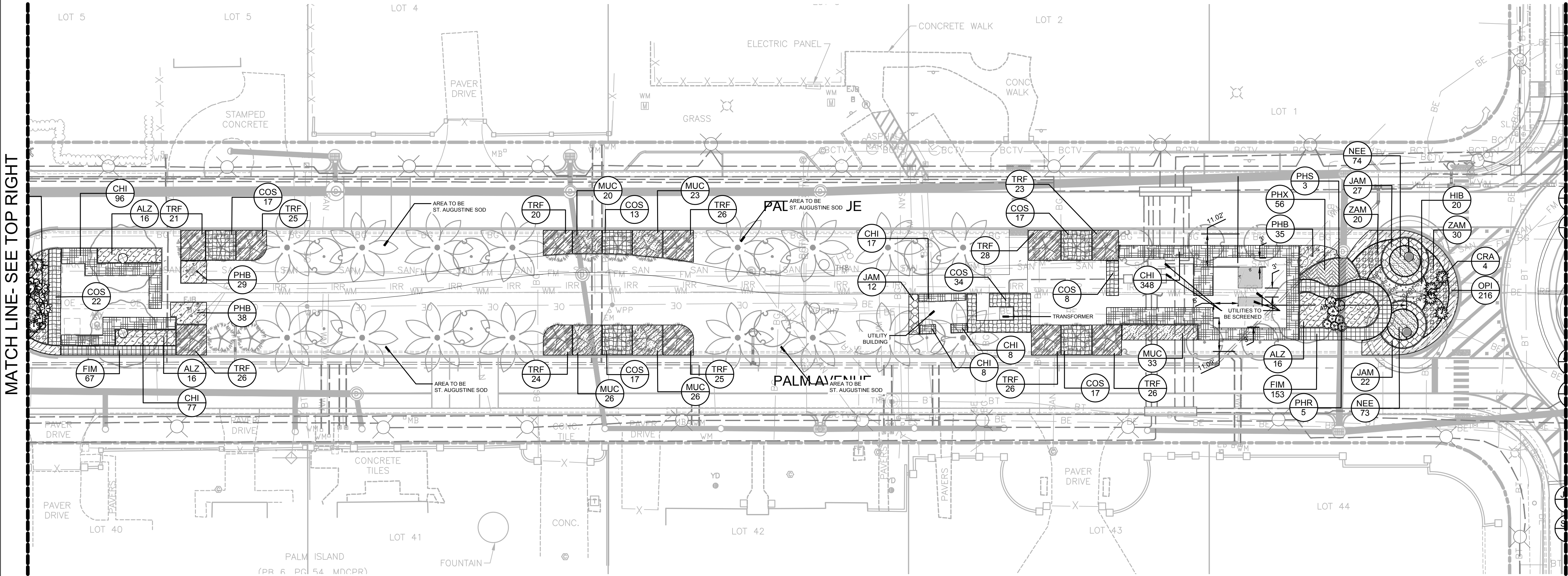
PROJECT NO.
17-0027-001-01

LS-1

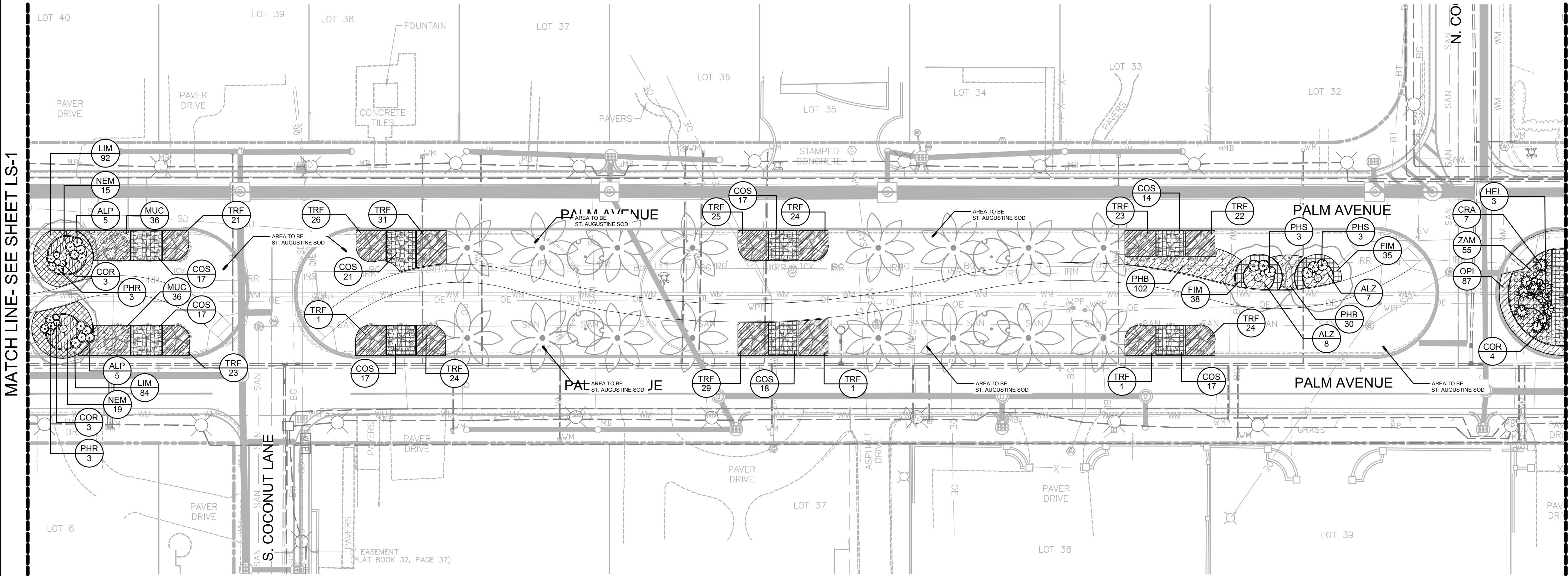
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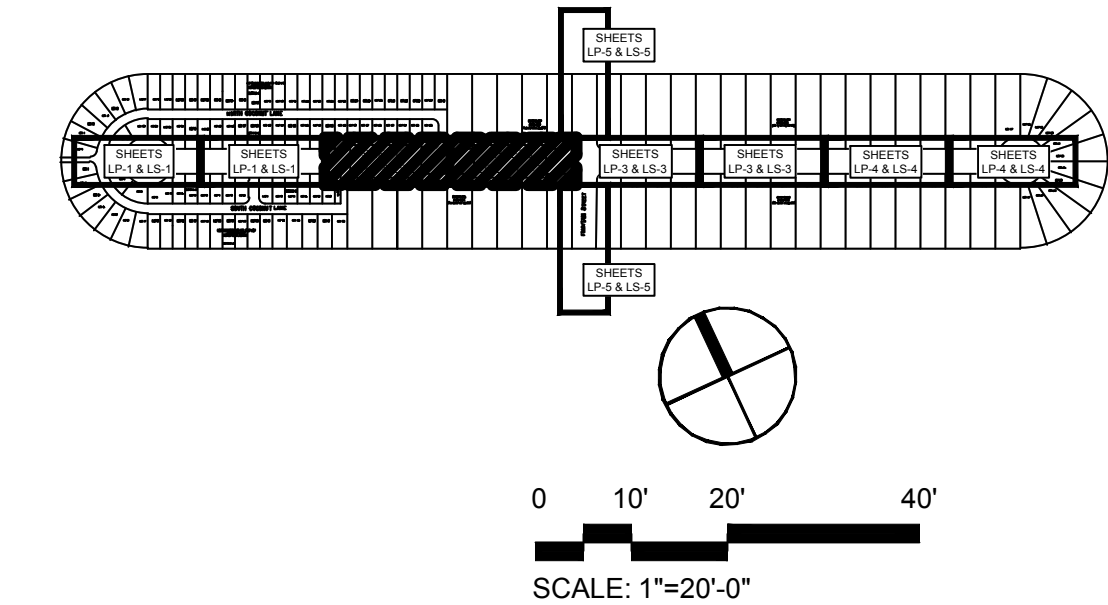
MATCH LINE- SEE TOP RIGHT



MATCH LINE- SEE SHEET LS-1



MATCH LINE- SEE SHEET LS-3



NOTE:
SEE LP SHEETS FOR TREE & PALM PLANTING

SHRUB PLANTING LEGEND		
SHRUBS	CODE	COMMON / BOTANICAL NAME
	ALP	Red Ginger <i>Alpinia purpurata</i>
	COR	Red Sister Ti <i>Cordyline fruticosa</i> 'Red Sister'
	CRA	'Queen Emma' Crinum <i>Crinum augustum</i> 'Queen Emma'
	ELD	Japanese Blueberry Tree <i>Elaeocarpus decipiens</i> TM
	HEL	Lobster Claw Heliconia <i>Heliconia rostrata</i>
	PHS	Split Leaf Philodendron <i>Philodendron bipinnatifidum</i> -selloum
	PHR	Rojo Congo Philodendron <i>Philodendron</i> x 'Rojo Congo'
	STN	Giant Bird of Paradise <i>Strelitzia nicolai</i>
SHRUB AREAS	CODE	COMMON / BOTANICAL NAME
	ALZ	Variegated Shell Ginger <i>Alpinia zerumbet</i> 'Variegata'
	CHI	Red Tip Cocoplum <i>Chrysobalanus icaco</i> 'Red Tip'
	COS	Silver Buttonwood <i>Conocarpus erectus</i> 'Sericeus'
	FIM	Green Island Ficus <i>Ficus microcarpa</i> 'Green Island'
	HAN	Dwarf Firebush <i>Hamelia nodosa</i>
	HIB	Hibiscus <i>Hibiscus rosa-sinensis</i> 'Seminole Pink'
	JAM	Downey Jasmine <i>Jasminum multiflorum</i>
	LIM	Evergreen Giant Border Grass <i>Liriope muscari</i> 'Evergreen Giant'
	MUC	Pink Muhly <i>Muhlenbergia capillaris</i>
	NEM	Macho Fern <i>Nephrolepis biserrata</i> 'Macho Fern'
	NEE	Boston Fern <i>Nephrolepis exaltata</i>
	OPI	Aztec Grass <i>Ophiopogon intermedius</i> 'Argenteomarginatus'
	PHB	Burle Marx Philodendron <i>Philodendron</i> 'Burle Marx'
	PHX	Xanadu Philodendron <i>Philodendron</i> 'Xanadu'
	SER	Silver Saw Palmetto <i>Serenoa repens</i> 'Cinerea'
	TRF	Florida Gamagrass <i>Tripsacum floridanum</i>
	ZAM	Coontie <i>Zamia pumila</i>
GROUND COVERS	CODE	COMMON / BOTANICAL NAME
	ANN	Annuals Annuals

PALM ISLAND
CITY OF MIAMI BEACH, FLORIDA

PREPARED FOR:
CITY OF MIAMI BEACH

SHRUB PLANTING PLAN

Scott W. Peaver, R.L.A.
Florida R.L.A. No. 6666976

PROJECT NO.
17-0027-001-01

LS-2

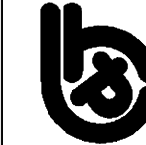
SHEET X OF X

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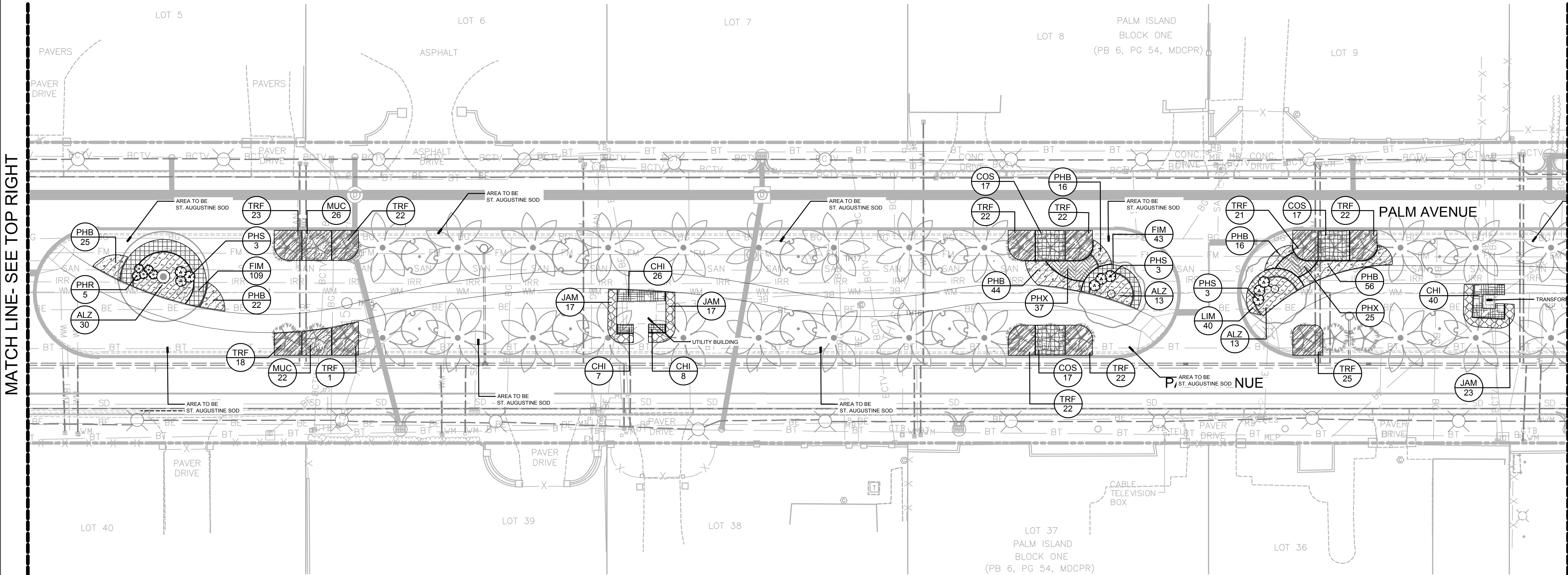
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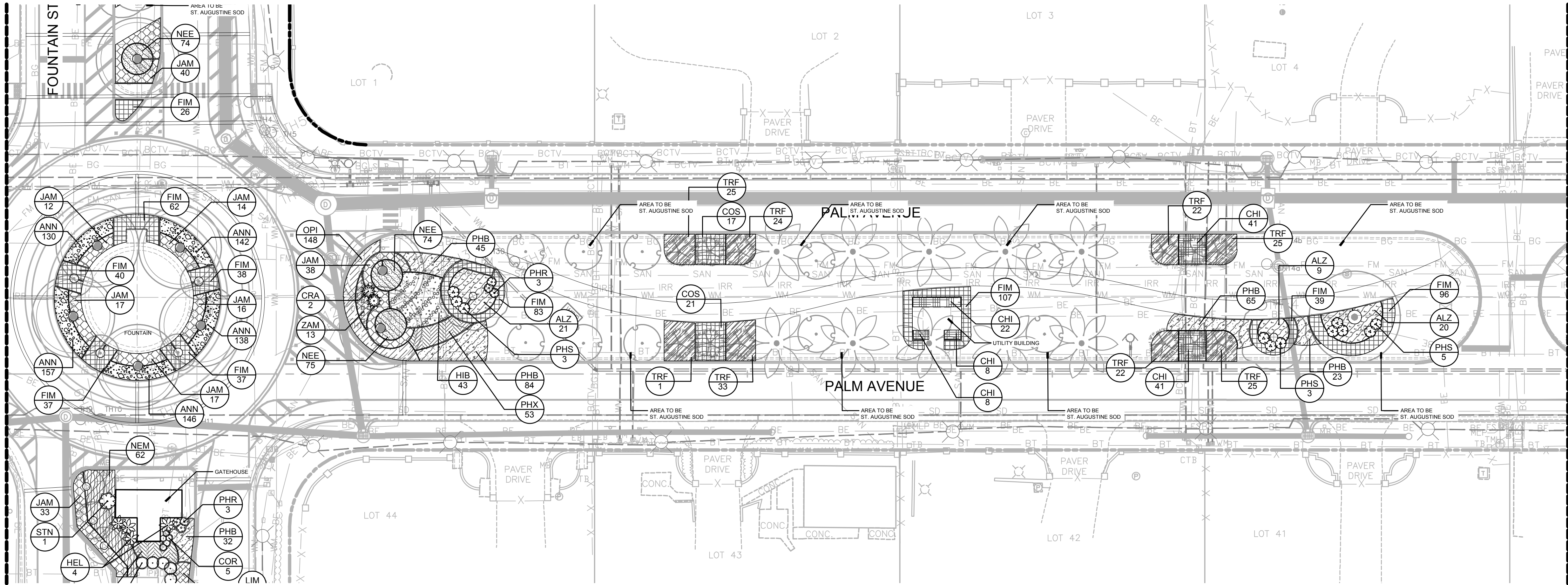
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01/04/19	1"=20'	SWP	SWP	JDH	SWP

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MATCH LINE- SEE SHEET LS-2

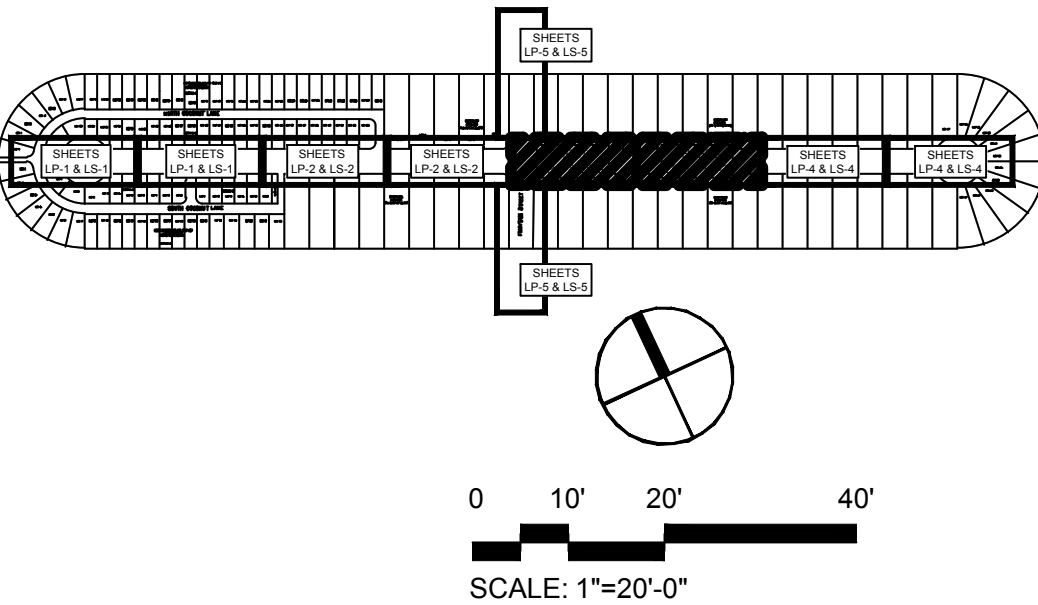


MATCH LINE- SEE SHEET LS-2



MATCH LINE- SEE SHEET LS-4

MATCH LINE- SEE BOTTOM LEFT



NOTE:
SEE LP SHEETS FOR TREE & PALM PLANTING

SHRUB PLANTING LEGEND		
SHRUBS	CODE	COMMON / BOTANICAL NAME
	ALP	Red Ginger <i>Alpinia purpurata</i>
	COR	Red Sister Ti <i>Cordyline fruticosa</i> 'Red Sister'
	CRA	'Queen Emma' Crinum <i>Crinum augustum</i> 'Queen Emma'
	ELD	Japanese Blueberry Tree <i>Elaeocarpus decipiens</i> TM
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	STN	Giant Bird of Paradise <i>Strelitzia nicolai</i>
SHRUB AREAS	CODE	COMMON / BOTANICAL NAME
	ALZ	Variegated Shell Ginger <i>Alpinia zerumbet</i> 'Variegata'
	CHI	Red Tip Cocoplum <i>Chrysobalanus icaco</i> 'Red Tip'
	COS	Silver Buttonwood <i>Conocarpus erectus</i> 'Sericeus'
	FIM	Green Island Ficus <i>Ficus microcarpa</i> 'Green Island'
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	HIB	Hibiscus <i>Hibiscus rosa-sinensis</i> 'Seminole Pink'
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	SER	Silver Saw Palmetto <i>Serenoa repens</i> 'Cinerea'
	TRF	Florida Gamagrass <i>Tripsacum floridanum</i>
	ZAM	Coontie <i>Zamia pumila</i>
GROUND COVERS	CODE	COMMON / BOTANICAL NAME
	ANN	Annals Annals

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DATE: 01/04/19

SCALE: 1"=20'

DESIGN BY: SWP

DRAWN BY: SWP

CHECKED BY: JDH

APPROVED BY: SWP

PALM ISLAND
CITY OF MIAMI BEACH, FLORIDA

PREPARED FOR:
CITY OF MIAMI BEACH

SHRUB PLANTING PLAN

Scott W. Peaver, R.L.A.
Florida R.L.A. No. 6666976

PROJECT NO.
17-0027-001-01

LS-3
SHEET X OF X

Plan view of the proposed 100' x 100' site. The site is divided into several sections labeled 'SHEET' with coordinates: (P-5A11.0), (P-5A12.0), (P-5A13.0), (P-5A14.0), (P-5A15.0), (P-5A16.0), (P-5A17.0), (P-5A18.0), (P-5A19.0), (P-5A20.0), (P-5A21.0), (P-5A22.0), (P-5A23.0), (P-5A24.0), (P-5A25.0), (P-5A26.0), (P-5A27.0), (P-5A28.0), (P-5A29.0), (P-5A30.0), (P-5A31.0), (P-5A32.0), (P-5A33.0), (P-5A34.0), (P-5A35.0), (P-5A36.0), (P-5A37.0), (P-5A38.0), (P-5A39.0), (P-5A40.0), (P-5A41.0), (P-5A42.0), (P-5A43.0), (P-5A44.0), (P-5A45.0), (P-5A46.0), (P-5A47.0), (P-5A48.0), (P-5A49.0), (P-5A50.0), (P-5A51.0), (P-5A52.0), (P-5A53.0), (P-5A54.0), (P-5A55.0), (P-5A56.0), (P-5A57.0), (P-5A58.0), (P-5A59.0), (P-5A60.0), (P-5A61.0), (P-5A62.0), (P-5A63.0), (P-5A64.0), (P-5A65.0), (P-5A66.0), (P-5A67.0), (P-5A68.0), (P-5A69.0), (P-5A70.0), (P-5A71.0), (P-5A72.0), (P-5A73.0), (P-5A74.0), (P-5A75.0), (P-5A76.0), (P-5A77.0), (P-5A78.0), (P-5A79.0), (P-5A80.0), (P-5A81.0), (P-5A82.0), (P-5A83.0), (P-5A84.0), (P-5A85.0), (P-5A86.0), (P-5A87.0), (P-5A88.0), (P-5A89.0), (P-5A90.0), (P-5A91.0), (P-5A92.0), (P-5A93.0), (P-5A94.0), (P-5A95.0), (P-5A96.0), (P-5A97.0), (P-5A98.0), (P-5A99.0), (P-5A100.0). A north arrow and a scale bar (1"=20'-0") are included.

PALM ISLAND
CITY OF MIAMI BEACH, FLORIDA

PREPARED FOR:
CITY OF MIAMI BEACH

SHRUB PLANTING PLAN

Scott W. Peavler, R.L.A.
Florida R.L.A. No. 6666976

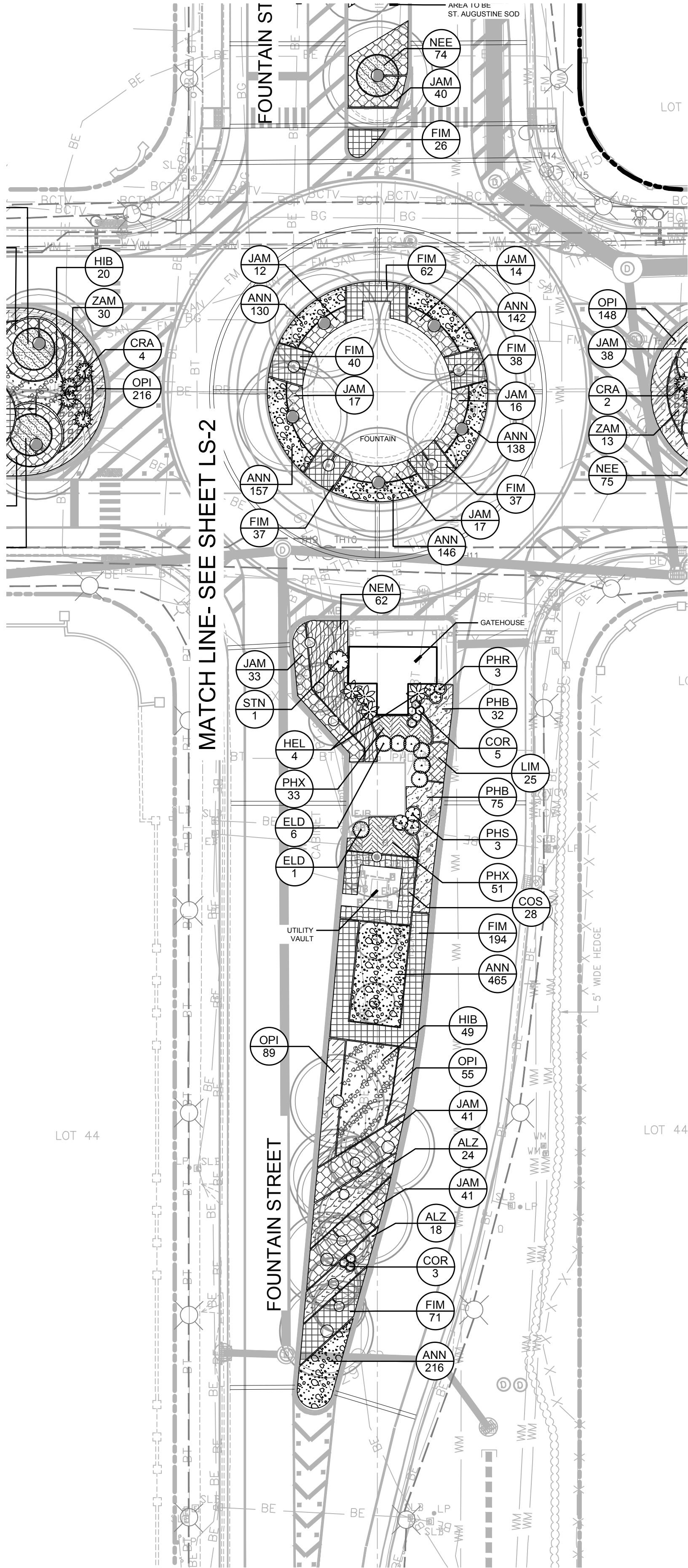
PROJECT NO.
17-0027-001-01

LS-4

SHEET X OF X

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MATCH LINE- SEE RIGHT



MATCH LINE- SEE SHEET LS-2

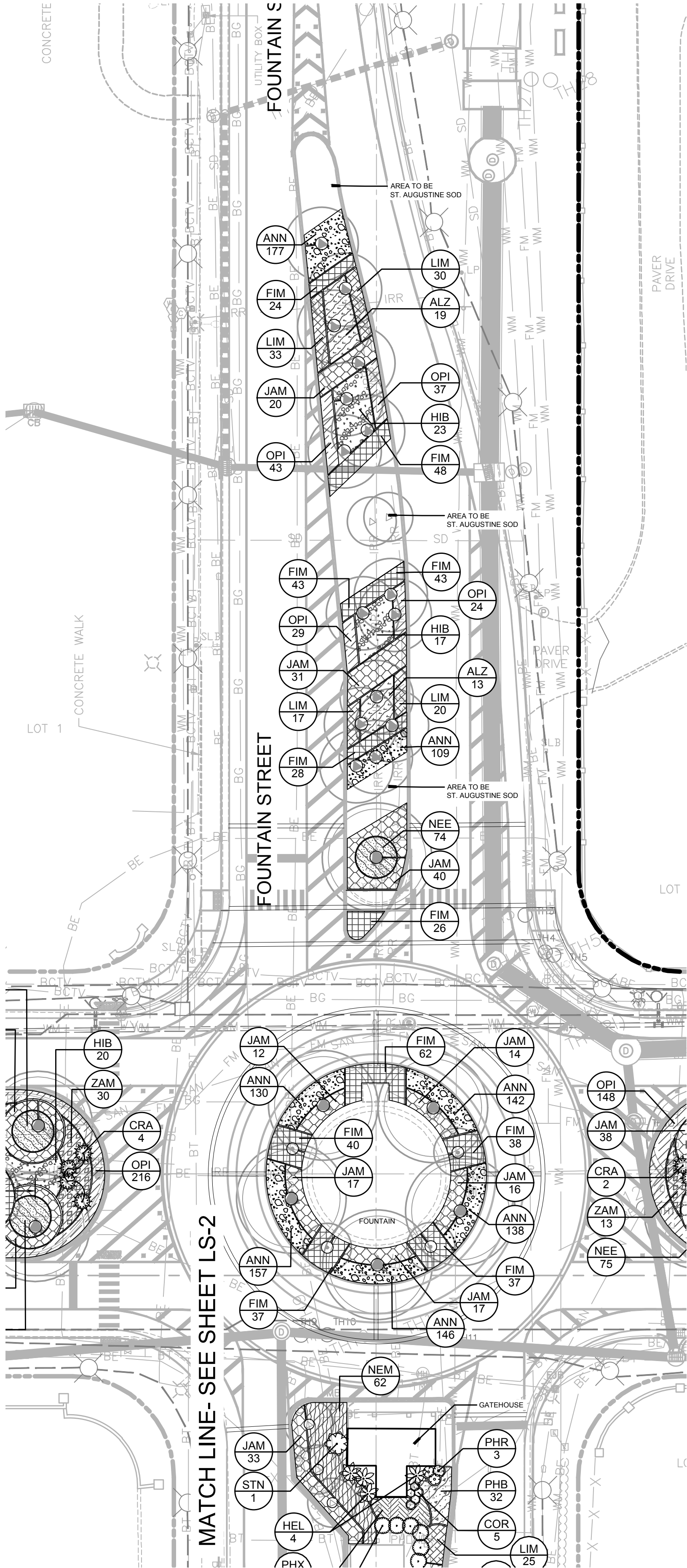
FOUNTAIN STREET

FOUNTAIN ST

LOT 44

LOT 44

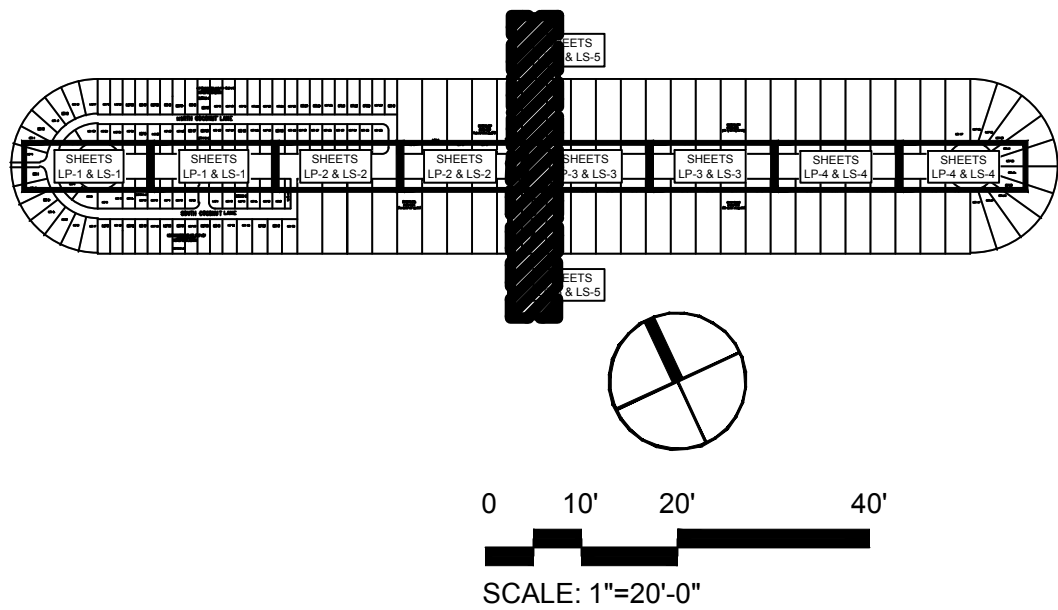
MATCH LINE- SEE LEFT



MATCH LINE- SEE SHEET LS-2

FOUNTAIN STREET

FOUNTAIN S



NOTE:
SEE LP SHEETS FOR TREE & PALM PLANTING

SHRUB PLANTING LEGEND		
SHRUBS	CODE	COMMON / BOTANICAL NAME
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	ZAM	Coontie <i>Zamia pumila</i>
GROUND COVERS	CODE	COMMON / BOTANICAL NAME
	ANN	Annuals Annuals

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PALM ISLAND
CITY OF MIAMI BEACH, FLORIDA
PREPARED FOR:
CITY OF MIAMI BEACH
SHRUB PLANTING PLAN

Scott W. Peavler, R.L.A.
Florida R.L.A. No. 6666976
PROJECT NO.
17-0027-001-01
LS-5
SHEET X OF X

R:\Landscape\2017\17-0027-001-01 - Palm & Hibiscus Island\Drawings\17-0027_LPN-Farm.dwg [LPN] May 17, 2019 2:44pm CPHILLIPS

GENERAL

Tree relocation work shall be performed in compliance with the CONTRACTOR'S progress, schedule as approved by the CITY. However, relocation work shall start no sooner than the beginning of the construction contract and shall be completed by the completion date of the contract. No relocation work shall start before the date approved nor continue without the knowledge of the CITY.

REFERENCES

- A. Where referenced standards conflict with other specified requirements, the more restrictive or stringent requirements shall govern. Comply with applicable requirements of the following standards:
- American National Standards Institute (ANSI): Z60.1 American National Standards for Nursery Stock (Sponsor: American Association of Nurserymen, Inc.).
 - National Arborist Association, ~537 Stratford Rd., Wantagh, NY 11793 (NAA): Ref. 1 Transplanting of Trees and Shrubs in the Southeastern United States.
 - Florida Department of Agriculture and Consumer Services: Grades and Standards for Nursery Plants.

DESCRIPTION

- A. Plant materials to be relocated on site are indicated on the Drawings. Those not shown will be relocated as directed by the CITY.
- B. The person (foreman or superintendent) in charge of and responsible for the CONTRACTOR'S tree relocation crews shall have a minimum 10 years experience in transplanting of plant materials and shall be recognized by the American Association of Nurserymen.
- C. Existing trees to remain shall be protected during all construction phases. Protective barriers shall be provided for those existing trees adjacent to construction operations. Replacement of any trees that are damaged or destroyed due to the CONTRACTOR'S operations shall be the CONTRACTOR'S responsibility and shall be replaced at the CONTRACTOR'S expense. Any existing tree that dies within one year after final acceptance shall be replaced with a number of trees of the same species to equal the caliper DBH of the existing tree lost. Replacement trees shall be Florida No. 1 and have a caliper DBH of no smaller than 3".
- D. Remove other vegetation as necessary and as directed by the LANDSCAPE ARCHITECT to accommodate new plantings.
- E. Tree pits or holes remaining after relocation of plant material shall be backfilled with clean fill and brought back flush with surrounding grade, unless the pits are to be immediately replanted. Pits that are to be quickly replanted shall be surrounded by safety barricades to prevent accidental falls into pits. In areas where new plant material will replace relocated plant material, appropriate soil mix shall be used as backfill.

QUALITY ASSURANCE

- A. Unless otherwise specified herein, tree transplanting shall conform to NAA Ref. 1.
- B. CONTRACTOR shall comply with NAA standards for pruning and shall remove branches from trees that are to remain as necessary to clear new construction.
- C. CONTRACTOR shall recommend procedures to compensate for loss of roots (if any) and shall perform initial pruning of branches and stimulation of root growth where removed to accommodate new construction.
- D. Tree repair work shall be performed for damage incurred by construction.
- E. Routine progress evaluation reports shall be provided on relocated trees until the end of the maintenance period.
- F. Evaluate existing trees prior to transplanting and verify that trees are free from disease and sufficiently strong to survive relocation from the site to their new location. Notify the LANDSCAPE ARCHITECT in writing of any trees that the CONTRACTOR considers insufficiently strong to survive relocation.

SUBMITTAL

- A. CONTRACTOR shall submit for approval by OWNER a list of equipment, procedures, and labor force anticipated for use in tree relocation. CONTRACTOR shall include start date, completion date, and schedule of relocation as part of the approved progress schedule and, in addition, shall submit a more detailed daily schedule for the transplanting period, showing the schedule for root pruning and the number of units to be dug and relocated to specified areas.

For those materials that require root pruning, the relocation schedule will begin at the end of the specified root pruning period.

- C. CONTRACTOR shall apply for and pay all costs associated with tree removal/relocation permits. The permit shall be obtained from the CITY.
- D. Prior to start of relocation work, the CONTRACTOR shall submit for approval details of the tree protection system to be utilized. All trees indicated to remain during construction shall be protected in accordance with recognized standards of the industry and protection shall be removed once construction is complete. CONTRACTOR shall also certify that where damage occurred, trees were promptly and properly treated, and shall indicate which damaged trees (if any) are incapable of retaining full growth potential and are recommended to be replaced.
- E. The CONTRACTOR, in order to guarantee his work, may use methods, sequence and schedule for effecting tree relocations and plant protection methods different from what is described in these specifications. However, if different, the CONTRACTOR must submit for approval a full description of all proposed methods, sequence of events and schedule for effecting tree relocations and plant protection.
- F. CONTRACTOR shall coordinate tree relocation with road construction and other related operations and such coordination shall be clearly evidenced in the schedule submittal.
- G. CONTRACTOR must submit procedures to be utilized for maintenance of all relocated trees.

GUARANTEE

- A. Relocated plant material shall fall under the standard 12 month guarantee.
- B. Damage to other plants, lawn or construction work occurring within the work area during tree relocation shall be repaired at no cost to the CITY. This also includes, but is not limited to, damage of curbs, walks, roads, fences, site furnishings, etc. Replacing and replanting of damaged trees, shrubs or turf shall be performed in accordance with this specification.
- C. Existing tree canopy shall not have more than 25% loss after relocation procedures are completed. CONTRACTOR shall be responsible for replacing any canopy loss due to lack of care and/or inadequate methods of transplanting the trees and palms that would cause the death of said plant material. Any transplanted tree that dies within one year after final acceptance shall be replaced with a number of trees of the same species to equal the caliper DBH of the transplanted tree lost. Replacement trees shall be Florida No. 1 having a caliper DBH no smaller than 3". Replacement shall be the CONTRACTOR'S responsibility.

TRANSPLANTING - GENERAL

- A. Transplanting shall consist of on_site transplanting of existing trees. Trees shall be transplanted only once from existing location to permanent positions as shown on Drawings.
- B. Digging, Wrapping and Handling: Plants shall be dug and prepared for moving in a manner that will not cause damage to branches, shape, root system, and development.
- C. Balled and Burlapped Plants: Balls shall be firmly wrapped with burlap or approved cloth substitute. No balled plant will be acceptable if the ball is cracked and broken, or if the stem or trunk is loose in the ball, either before or during transplanting. Balled plants shall be lifted and handled from the bottom of the ball, properly protected and delivered to the replanting site, to be planted immediately and watered thoroughly. Ball sizes shall be as recommended in ANSI Z60.1

TAGGING

- A. Trees within the designated areas for relocation shall be clearly marked by means of yellow plastic surveyors' ribbons and coordinated with the LANDSCAPE ARCHITECT and CITY prior to root pruning and/or digging.

ROOT PREPARATION

- A. Trees to be relocated shall be root pruned at least 60 days prior to digging with clean, sharp equipment. The specific requirements for root ball size shall be in accordance with the table below. CONTRACTOR shall maintain root pruned materials by watering, weeding, mowing, spraying, fertilizing, and other horticulture practices. After root pruning, backfill with good rooting medium, fertilize with organic fertilizer to promote root growth, mulch to reduce weeds, discourage foot traffic and its compacting effect, conserve moisture and minimize temperature fluctuation.
- B. Root Ball Size Chart: Root ball sizes shall be in accordance with minimum standards set forth in Grades and Standards for Nursery Plants Part 11, Palms and Trees, Florida Department of Agriculture, as follows:

1. Caliper	Minimum Ball Diameter
3 1/2 - 4:	28"
4 - 4 1/2"	30"
4 1/2 - 5"	32"
5 - 5 1/2"	34"
Larger Sizes	Increase proportionally
2. Ball Diameter	Medium Ball Diameter
Less than 20"	Not less than 75% of diameter
20" to 30"	Not less than 65% of diameter
30" to 48"	Not less than 60% of diameter

CROWN PREPARATION

- A. Shade Trees:
- Shade Trees: Selectively prune and thin crown to remove approximately one third of the branches. In so doing, preserve the basic shape and form of the tree, eliminate cross branching and dead or diseased branches.
 - Hand strip selected species of all leaves following pruning and prior to moving.

HAND DIGGING

- A. Burlapping will be required. Trees that are burlapped for relocation shall comply with and be handled in same manner as new plant material specified in Section 02900-Landscape Work.

HANDLING AND TRANSPORTATION

- A. Trees shall be properly handled during moving so trunks will not be scarred or damaged and to avoid broken limbs. Broken limbs which do not cause the tree to be rejected shall be repaired under the following guidelines:
- Properly prune dead, dying, or damaged branches with clean, sharp equipment.
 - Remove injured bark and wood of a tree with a clean, sharp knife to a point where healthy bark and wood make contact at their margins.
 - Inspect and treat wound for insect and disease.
 - Seal wounds with bituminous base wound paint for all limbs greater than 3" diameter.
- B. Transport trees on vehicles of adequate size to prevent overcrowding, broken limbs, foliage damage or root ball damage.
- C. Root ball should be kept moist during all phases of relocation.
- D. Tree crowns shall be protected with shade cloth to prevent desiccation and wind burn. Crowns shall be periodically sprayed with water to help ensure against desiccation.
- E. Plant material shall be handled only in ways and means accepted by the industry and acceptable to the LANDSCAPE ARCHITECT.
- F. Plant material shall be planted the same day it is dug. Preparation of planting pits or beds shall be coordinated to ensure this schedule.

PLANTING

- A. Relocated Material
- Relocated trees shall be planted according to procedures described for new material, Section 02900-Landscape Work. Verify that final grades have been established prior to planting operations. Ensure that proposed planting pits drain by test filling with water prior to transplantation.
 - CONTRACTOR shall continue watering and caring for relocated material as described in paragraph 3.09.
 - Mulch tree pit areas to reduce weeds, discourage foot traffic and its compacting effect, conserve moisture and minimize temperature fluctuations.
 - Brace trunk and leave in place until trees/ palms are wind firm. (1± year)
 - Wrap trunks and structural branches of thin barked trees to protect against sun scald and dehydration. Retain through at least one growing season, and through cold season.
 - Feed with a diluted solution of N_P_K in solution form with a soil needle, providing water, air, and nutrients.
 - Where foliage is retarded, spray with one of the soluble types of foliage feeders.
 - At time of planting, use soil needles for watering new transplant to fill air pockets and to keep roots (especially feeder roots) moist, live, and healthy. Direct fine spray at foliage to help harden_off new leaves.
 - Planting design is not intended to have a permanent underground irrigation and as such the CONTRACTOR is responsible to establish planting with temporary irrigation or hand watering. CONTRACTOR is responsible for plant material for a warranty period of 1 year from the time of substantial completion.**

STAKING AND GUYING

Designated material shall be staked and guyed according to planting details.

WATERING

- A. CONTRACTOR shall be responsible for the manual watering of relocated plant materials for 90 days. If utilized, all temporary watering system installations shall be completely removed by the CONTRACTOR after the watering period.

Following transplanting, CONTRACTOR shall water trees daily for the first two weeks, every other day for the next two weeks. Soaking then shall continue on a twice weekly basis for another period of eight (8) weeks. Such watering shall thoroughly saturate the root ball to its full depth.

MAINTENANCE

- A. All relocated plant materials shall be maintained immediately after each item is planted and continued until 90 day watering period is completed or until final acceptance whichever is latest, at which time the Property Owner, will assume responsibility for maintenance of the landscaping materials, following the procedures and recommendations of the CONTRACTOR.
- B. During this maintenance period, all relocated plant materials shall be maintained in accordance with the procedures described in Section 02900-Landscape Work.

CLEAN UP

- A. Upon completion of the work, the CONTRACTOR shall thoroughly clean the landscaped area, removing all equipment, unused materials, rubbish and surplus excavated material, and shall fine grade all disturbed areas, including areas adjacent to the transplanted materials, to provide a neat and uniform site. All damaged or altered existing structures, as a result of the landscape work, shall be corrected.

Always call 811 two full business days before you dig to have underground utilities located and marked.



DATE:	01/04/19
SCALE:	1"=20'
DESIGN BY:	SMP
DRAWN BY:	SMP
CHECKED BY:	JDH
APPROVED BY:	SMP
DATE:	
BY:	



Craven & Thompson and Associates, Inc.
Engineers • Planners • Surveyors

3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400

Florida Licensed Engineering Surveyors & Mapping Business No. 271
Florida Licensed Landscape Architecture Business No. 020014

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PALM ISLAND

CITY OF MIAMI BEACH, FLORIDA

PREPARED FOR:

CITY OF MIAMI BEACH

PLANTING NOTES

Scott W. Peavler, R.L.A.
Florida R.L.A. No. 6666976

PROJECT NO.
17-0027-001-01

LPN

SHEET ____ OF ____

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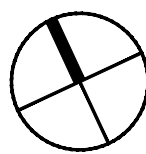
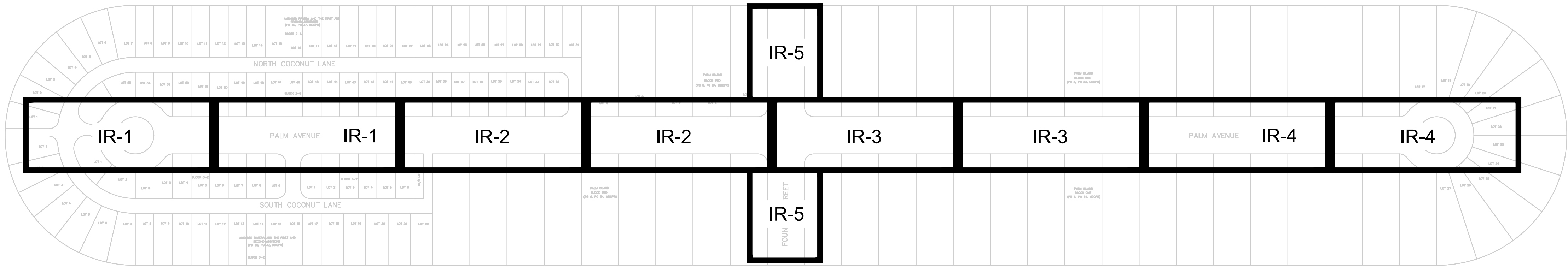
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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS NO. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS NO. C00014

MATTHEW SCOTT GREEN IS THE PRESIDENT OF CRAVEN • THOMPSON & ASSOCIATES, INC. AND PAUL WOLF
IS DEPUTY MANAGING PARTNER. MR. GREEN HAS OVER 20 YEARS OF PROFESSIONAL EXPERIENCE IN THE
DESIGN/CONSTRUCTION INDUSTRY. HE HAS BEEN A LEADER IN MANY MAJOR PROJECTS THROUGHOUT THE
STATE OF FLORIDA. MR. WOLF HAS OVER 10 YEARS OF PROFESSIONAL EXPERIENCE AS AN ENVIRONMENTAL
CONSULTANT AND HAS BEEN INVOLVED IN MANY MAJOR PROJECTS THROUGHOUT THE STATE OF FLORIDA.
MR. GREEN AND MR. WOLF ARE BOTH MEMBERS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, THE
AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, AND THE FLORIDA SOCIETY OF CIVIL ENGINEERS.

Masuen Consulting LLC
Water Resource Consultants
Telephone (866) 928-1533
Fax (800) 928-1534

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THE USA**



IRRIGATION LEGEND

QTY	SYM	DESCRIPTION	DET.
		CONTROLLER LETTER – STATION NUMBER GALLONS PER MINUTE – CATALOG FLOW VALVE SIZE	
1		EXISTING 3" METER	
1		EXISTING 3" ATMOSPHERIC VACUUM BREAKER TO BE REPLACED WITH A PROPOSED 3" WAITS 757 DOUBLE CHECK VALVE ASSEMBLY	A
54		RAIN BIRD PEB SERIES RCV (SIZED PER PLAN) WITH A NIBCO T-113 GATE VALVE IN A CARSON 1220 JUMBO VALVE BOX WITH BOLT DOWN LID	B1
1		EXISTING RAIN BIRD ESP-LXME WALL MOUNT 24 STATION CONTROLLER, CONTRACTOR TO ADD ONE 12 STATION MODULE FOR A TOTAL OF 36 STATIONS AND BASELINE WATERTEC S100 SOIL MOISTURE SENSOR INTERFACE MOUNTED ADJACENT TO CONTROLLER	C1
1		PROPOSED RAIN BIRD ESP-LXME WALL MOUNT 36 STATION CONTROLLER, GROUNDING GRID, AND BASELINE WATERTEC S100 SOIL MOISTURE SENSOR INTERFACE MOUNTED ADJACENT TO CONTROLLER	C1
2		PROPOSED EAVE MOUNTED HUNTER RAIN FREEZE CLIK SENSOR MODEL RFC, WIRE TO BE CONNECTED TO CONTROLLER VIA 1" CONDUIT	C2
2		PROPOSED BASELINE WATERTEC S100 SOIL MOISTURE SENSOR bISENSOR INSTALLED ON SITE PER MANUFACTURER'S RECOMMENDATIONS. COMMUNICATION WIRE TO BE CONNECTED TO SMS INTERFACE AT CONTROLLER VIA 1" CONDUIT	C3
6		PROPOSED NIBCO TI-8 MAINLINE ISOLATION VALVE (LINE SIZE) IN A CARSON 1419 VALVE BOX.	D
— — — — —		PROPOSED SCH 40 PVC LATERAL LINE W/ SCH 40 SOLVENT WELD PVC FITTINGS (SIZE PER PLAN, MINIMUM PIPE SIZE SHALL BE 3/4", NO 1/2" PIPES PERMITTED)	L
— — — — —		PROPOSED SCHEDULE 40 SOLVENT-WELD PVC MAINLINE W/SCH 40 SOLVENT-WELD PVC FITTINGS (SIZE PER PLAN)	L
— — — — —		PROPOSED SCH 40 GRAY PVC CONDUIT W/SCH 40 SOLVENT-WELD PVC FITTINGS, SHOWN WHERE NOT WITH MAINLINE (SIZE PER PLAN)	L
— — — — —		SCHEDULE 80 PVC PVC SLEEVES W/SCH 40 SOLVENT-WELD PVC FITTINGS (SIZE PER PLAN, DIRECTIONALLY BORED WHERE SHOWN)	O

*DET (ON THE LEGEND) - THE LETTER IN THIS COLUMN DENOTES THE CORRESPONDING DETAIL SHOWN ON THE DETAIL SHEET.

WATERING WINDOW AND CONTROLLER PROGRAMMING NOTES:

1. CONTRACTOR TO PROGRAM CONTROLLERS TO RUN TWO ZONES AT THE SAME TIME TO MAXIMIZE TOTAL FLOW OF 140 GPM. ONE ZONE FROM CONTROLLER 'A' AND ONE ZONE FROM CONTROLLER 'B'.
2. PAIRING OF ZONES SHOULD RUN TURF WITH TURF, SHRUBS WITH SHRUBS, OR BUBBLERS WITH BUBBLERS.
3. AT NO TIME SHALL THE FLOW IN EACH 4" MAINLINE BRANCH EXCEED 100 GPM.
4. WATERING WINDOW SHALL NOT EXCEED 10 HOURS.

IRRIGATION HEAD LEGEND

IRRIGATION HEAD LEGEND						
SYMBOL QUANTITY	SYMBOL	DESCRIPTION	DETAIL	DESIGN PS	DESIGN FLOW GPM	DESIGN SYMBOL
362		EACH SYMBOL DENOTES TWO (2) RAIN BIRD 1401 FLOOD BUBBLERS ON FUNNY PIPE	Q	30	0.50	
27		RAIN BIRD 1806-SAM-PRS-8Q	R	30	0.26	
66		RAIN BIRD 1806-SAM-PRS-8H	R	30	0.52	
20		RAIN BIRD 1812-SAM-PRS-8Q	S	30	0.26	
22		RAIN BIRD 1812-SAM-PRS-8H	S	30	0.52	
30		RAIN BIRD 1812-SAM-PRS-8Q ON SCH 40 RISER	T	30	0.26	
32		RAIN BIRD 1812-SAM-PRS-8H ON SCH 40 RISER	T	30	0.52	
43		RAIN BIRD 1806-SAM-PRS-10Q	R	30	0.39	
60		RAIN BIRD 1806-SAM-PRS-10H	R	30	0.79	
33		RAIN BIRD 1806-SAM-PRS-10F	R	30	1.58	
20		RAIN BIRD 1812-SAM-PRS-10Q	S	30	0.39	
58		RAIN BIRD 1812-SAM-PRS-10H	S	30	0.79	
3		RAIN BIRD 1812-SAM-PRS-10Q ON SCH 40 RISER	T	30	0.39	
23		RAIN BIRD 1812-SAM-PRS-10H ON SCH 40 RISER	T	30	0.79	
9		RAIN BIRD 1812-SAM-PRS-10F ON SCH 40 RISER	T	30	1.58	
27		RAIN BIRD 1806-SAM-PRS-12Q	R	30	0.65	
165		RAIN BIRD 1806-SAM-PRS-12H	R	30	1.30	
71		RAIN BIRD 1806-SAM-PRS-12F	R	30	2.60	
81		RAIN BIRD 1812-SAM-PRS-12Q	S	30	0.65	
100		RAIN BIRD 1812-SAM-PRS-12H	S	30	1.30	
51		RAIN BIRD 1812-SAM-PRS-12Q ON SCH 40 RISER	T	30	0.65	
96		RAIN BIRD 1812-SAM-PRS-12H ON SCH 40 RISER	T	30	1.30	
28		RAIN BIRD 1812-SAM-PRS-12F ON SCH 40 RISER	T	30	2.60	
117		RAIN BIRD 1806-SAM-PRS-15Q	R	30	0.92	
481		RAIN BIRD 1806-SAM-PRS-15H	R	30	1.85	
16		RAIN BIRD 1806-SAM-PRS-15F	R	30	3.70	
68		RAIN BIRD 1812-SAM-PRS-15Q	S	30	0.92	
91		RAIN BIRD 1812-SAM-PRS-15H	S	30	1.85	
43		RAIN BIRD 1812-SAM-PRS-15Q ON SCH 40 RISER	T	30	0.92	
99		RAIN BIRD 1812-SAM-PRS-15H ON SCH 40 RISER	T	30	1.85	
29		RAIN BIRD 1812-SAM-PRS-15F ON SCH 40 RISER	T	30	3.70	
6		RAIN BIRD 1806-SAM-PRS-15EST	R	30	0.61	
29		RAIN BIRD 1806-SAM-PRS-15SST	R	30	1.21	
18		RAIN BIRD 1812-SAM-PRS-15EST	S	30	0.61	
7		RAIN BIRD 1812-SAM-PRS-15SST	S	30	1.21	
18		RAIN BIRD 1812-SAM-PRS-15EST ON SCH 40 RISER	T	30	0.61	
13		RAIN BIRD 1812-SAM-PRS-15SST ON SCH 40 RISER	T	30	1.21	

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PALM ISLAND
CITY OF MIAMI BEACH, FLORIDA

PREPARED FOR:
CITY OF MIAMI BEACH

IRRIGATION PLAN- KEY MAP & LEGENDS

Scott W. Peavler, R.L.A.
Florida R.L.A. No. 6666976

PROJECT NO.	17-0027-001-01
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IR-0

SHEET ____ OF ____

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NON-VEHICULAR SLEEVING SCHEDULE	
PIPE SIZE	SLEEVING PIPE SIZE
3/4"	2"
1"	2"
1-1/4"	3"
1-1/2"	3"
2"	4"
3"	6"
4"	8"
6"	12"
8"	16"

SLEEVING NOTES:

1. VEHICULAR CROSSINGS ARE SHOWN AND SIZED ON THE PLANS.
2. NON-VEHICULAR SLEEVES ARE SHOWN BUT NOT SIZED.
3. SIZE ALL NON-VEHICULAR SLEEVES ACCORDING TO THE ABOVE CHART.
4. MAINLINE CROSSINGS MUST ALSO INCLUDE A 2" CONDUIT SLEEVE FOR CONTROL WIRE.
5. CONTRACTOR TO DUCT TAPE END OF SLEEVES TO KEEP SLEEVE CLEAN AND CLEAR.
6. CONTRACTOR TO STAKE END OF EACH SLEEVE ABOVE GROUND AND PAINT FLUORESCENT ORANGE. LABEL EACH STAKE WITH THE WORD 'SLEEVE' AND ITS SIZE.
7. CONTRACTOR TO PROVIDE A 3 FT MINIMUM DEPTH OF COVERAGE OVER ALL SLEEVES.

SLEEVE LABEL:

12"/6"/2" SLEEVES MEANS TO INSTALL ONE 12", ONE 6" AND ONE 2" SLEEVE.

MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.

Masuen Consulting LLC
Water Resource Consultants
Telephone (866) 928-1533
Fax (800) 928-1534

PROUDLY DESIGNED
AND PRODUCED IN
THE USA

DATE:	5/17/19
SCALE:	1"=20'
DESIGN BY:	JMJ
DRAWN BY:	JMJ
CHECKED BY:	TP
APPROVED BY:	MAW

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CITY OF MIAMI BEACH, FLORIDA
PREPARED FOR:
CITY OF MIAMI BEACH
IRRIGATION PLAN

Scott W. Peavler, R.L.A.
Florida R.L.A. No. 6666976

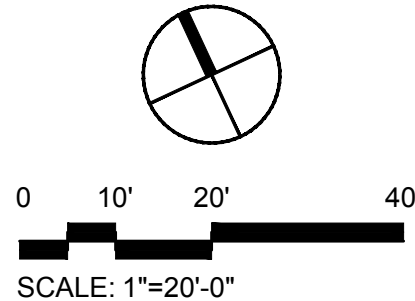
PROJECT NO.
17-0027-001-01

IR-1
SHEET 1 OF 7

811

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

It's fast, it's free, it's the law.
Call 811 two business days
before digging.



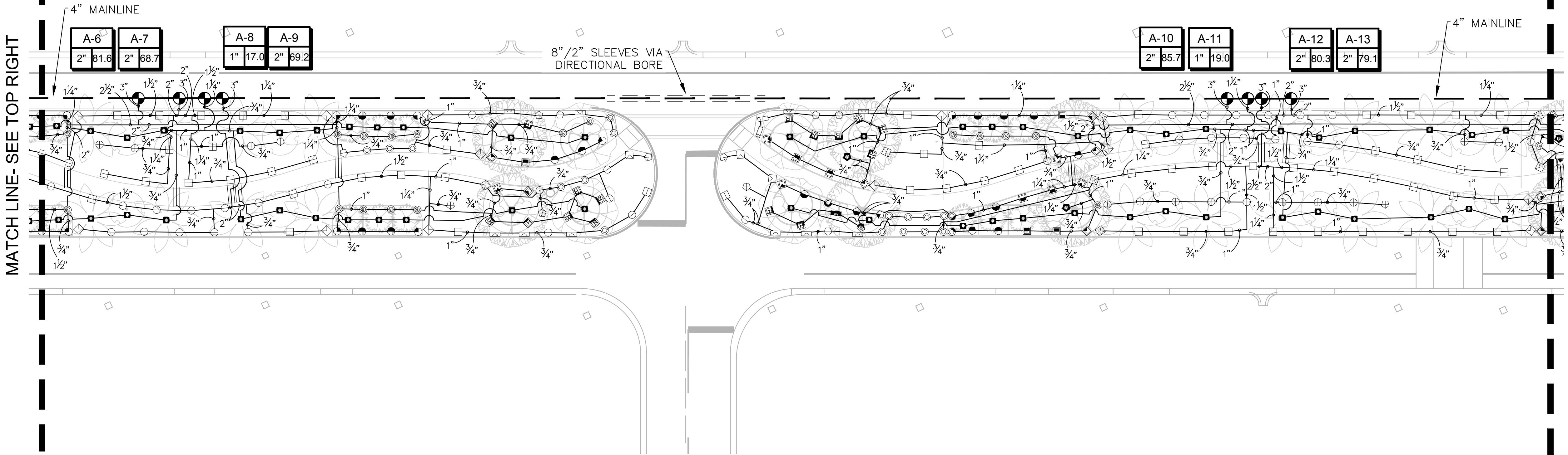
MATCH LINE- SEE TOP RIGHT

A-6	A-7	A-8	A-9
2" 81.6	2" 68.7	1" 17.0	2" 69.2

8" / 2" SLEEVES VIA
DIRECTIONAL BORE

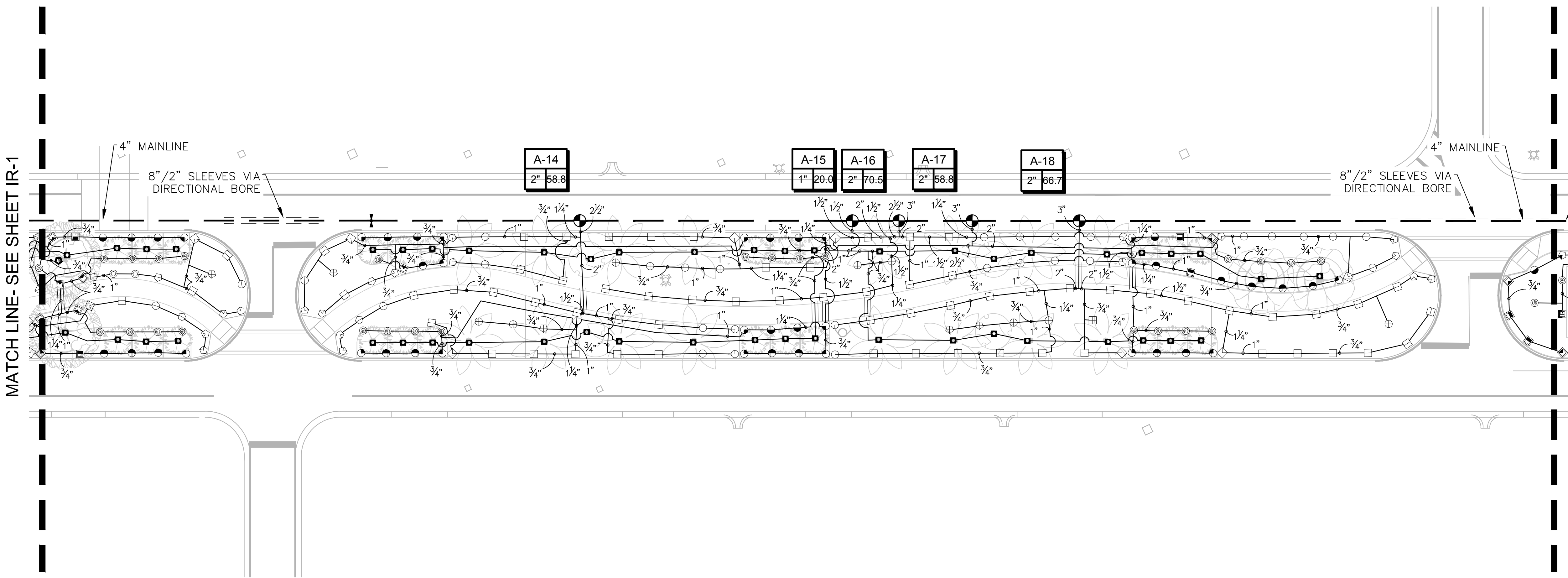
A-10	A-11	A-12	A-13
2" 85.7	1" 19.0	2" 80.3	2" 79.1

MATCH LINE- SEE SHEET IR-2

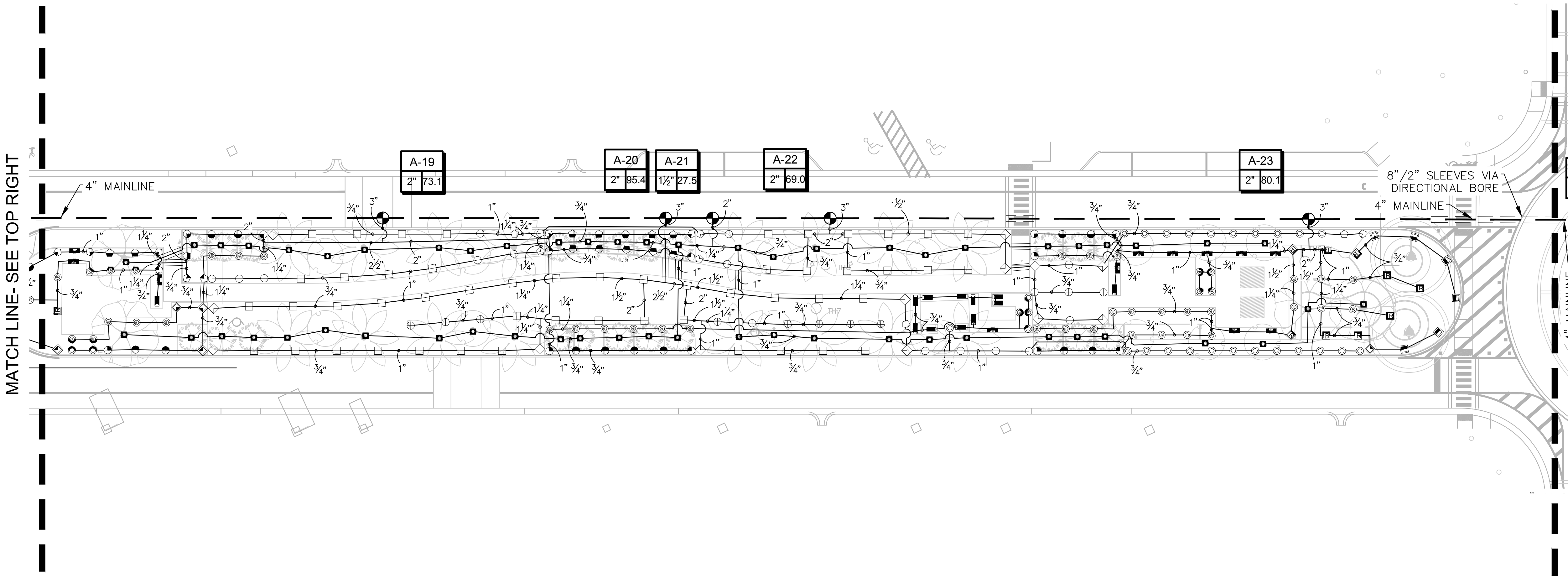


MATCH LINE- SEE BOTTOM LEFT

C:\MASUEN DESIGN FILES\ CRAVEN THOMPSON\ Palm-Hibiscus Islands_CTA-1923\Design\2019_0506\17-0027_PALM_IR.dwg [16-2] May 17, 2019 11:31am JUDY



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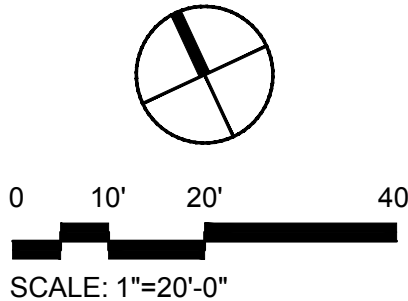
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DATE:	5/17/19
SCALE:	1"=20'
DESIGN BY:	JMJ
DRAWN BY:	JMJ
CHECKED BY:	TP
APPROVED BY:	MAW

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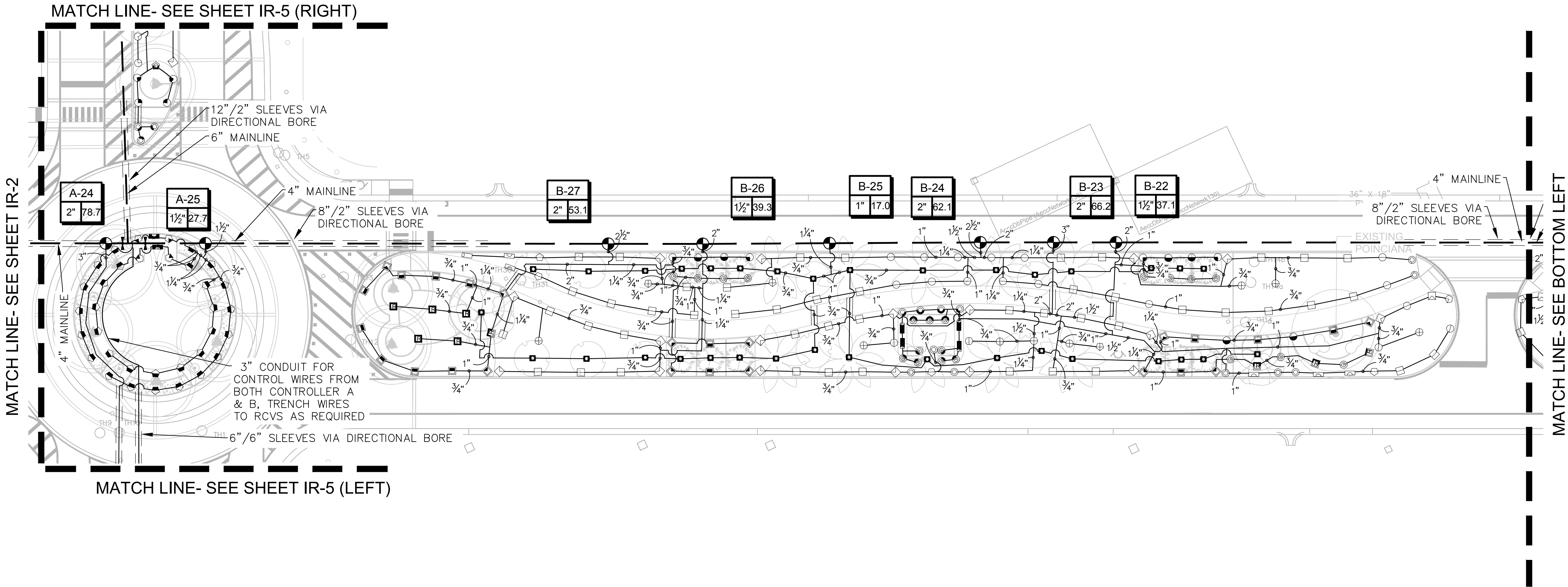
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CITY OF MIAMI BEACH, FLORIDA
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IRRIGATION PLAN

Scott W. Peavler, R.L.A.
Florida R.L.A. No. 6666976

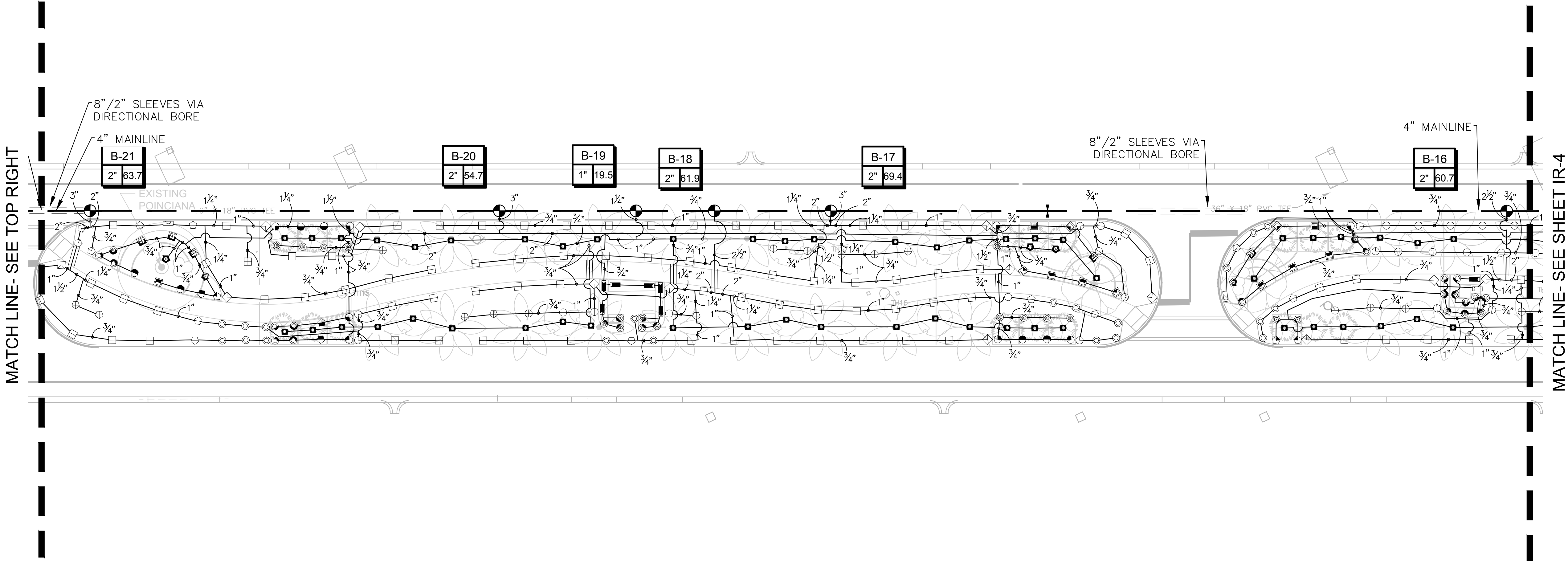
PROJECT NO.
17-0027-001-01

IR-2
SHEET 2 OF 7

C:\MASUEN DESIGN FILES\ CRAVEN THOMPSON\ Palm-Hibiscus Islands_CTA-1923\Design\2019_0506\17-0027_PALM_IR.dwg [16-3] May 17, 2019 11:32am JUDY



MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.



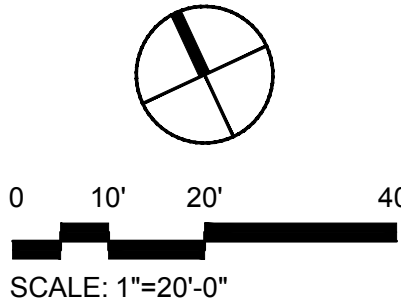
Masuen Consulting LLC
Water Resource Consultants
Telephone (866) 928-1533
Fax (800) 928-1534
PROUDLY DESIGNED
AND PRODUCED IN
THE USA

NON-VEHICULAR SLEEVING SCHEDULE	
PIPE SIZE	SLEEVING PIPE SIZE
3/4"	2"
1"	2"
1-1/4"	3"
1-1/2"	3"
2"	4"
3"	6"
4"	8"
6"	12"
8"	16"

SLEEVING NOTES:

- VEHICULAR CROSSINGS ARE SHOWN AND SIZED ON THE PLANS.
- NON-VEHICULAR SLEEVES ARE SHOWN BUT NOT SIZED.
- SIZE ALL NON-VEHICULAR SLEEVES ACCORDING TO THE ABOVE CHART.
- MAINLINE CROSSINGS MUST ALSO INCLUDE A 2" CONDUIT SLEEVE FOR CONTROL WIRE.
- CONTRACTOR TO DUCT TAPE END OF SLEEVES TO KEEP SLEEVE CLEAN AND CLEAR.
- CONTRACTOR TO STAKE END OF EACH SLEEVE ABOVE GROUND AND PAINT FLUORESCENT ORANGE. LABEL EACH STAKE WITH THE WORD 'SLEEVE' AND ITS SIZE.
- CONTRACTOR TO PROVIDE A 3 FT MINIMUM DEPTH OF COVERAGE OVER ALL SLEEVES.

SLEEVE LABEL:
12"/6"/2" SLEEVES MEANS TO INSTALL ONE 12", ONE 6" AND ONE 2" SLEEVE.



DATE:	5/17/19
SCALE:	1"=20'
DESIGN BY:	JMJ
DRAWN BY:	JMJ
CHECKED BY:	TP
APPROVED BY:	MAW
BY:	DATE:

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 739-6409
FAX: (954) 739-6409
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114
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PALM ISLAND
CITY OF MIAMI BEACH, FLORIDA
PREPARED FOR:
CITY OF MIAMI BEACH
IRRIGATION PLAN

Scott W. Peavler, R.L.A.
Florida R.L.A. No. 6666976

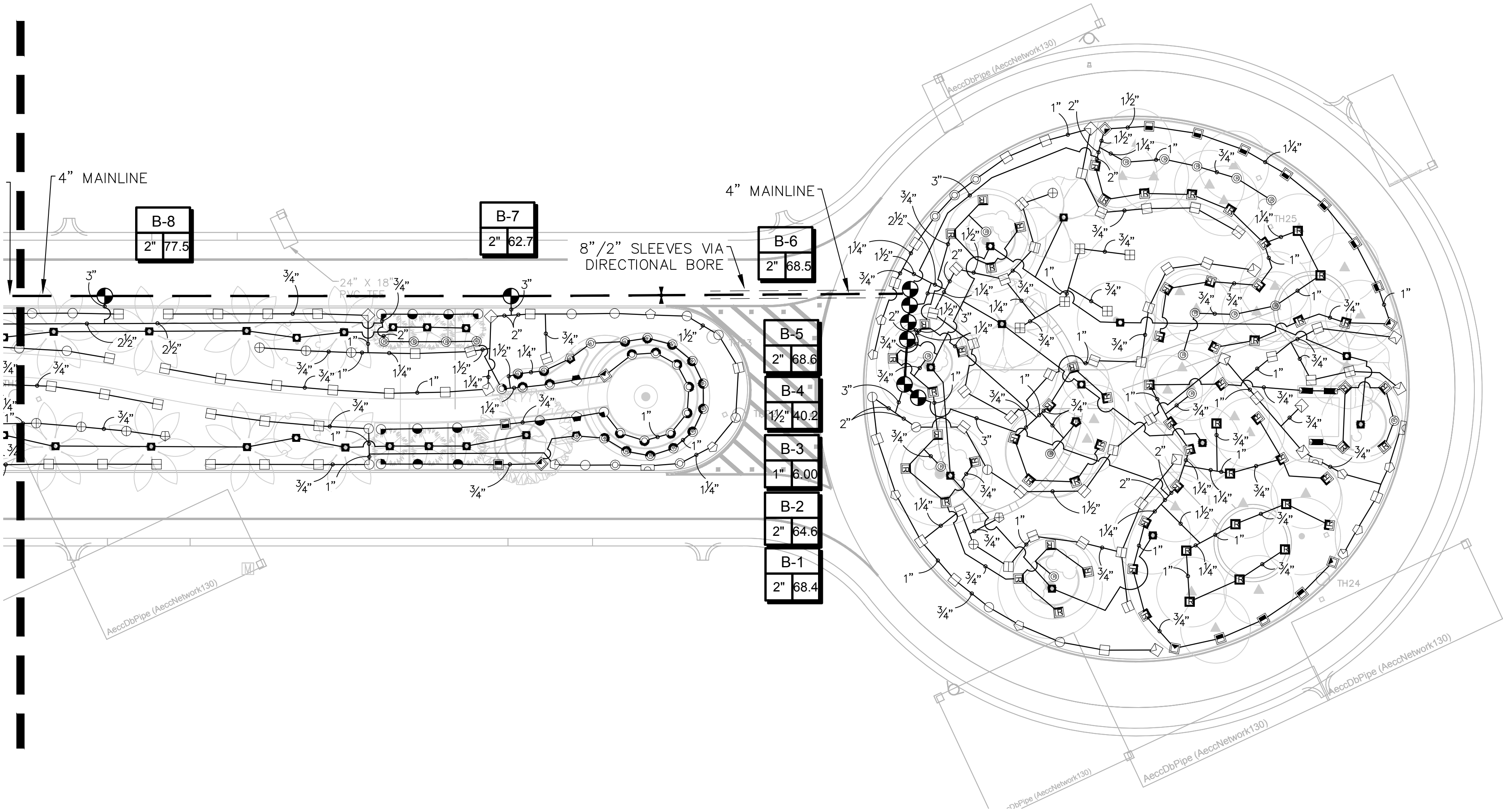
PROJECT NO.
17-0027-001-01

IR-3
SHEET 3 OF 7

C:\MASUEN DESIGN FILES\CRAVEN THOMPSON\Palms-Hibiscus Islands_CTA-1923\Design\2019_0506\17-0027_PALM_IR.dwg [16-4] May 17, 2019 11:32am JUDY

MATCH LINE- SEE TOP RIGHT

MATCH LINE- SEE SHEET IR-3



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8" / 2" SLEEVES VIA DIRECTIONAL BORE

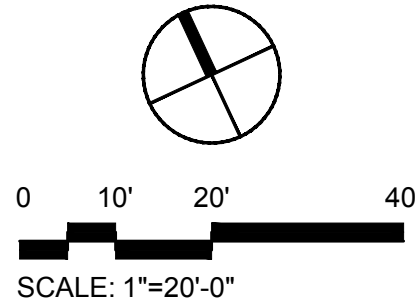
MATCH LINE- SEE BOTTOM LEFT

NON-VEHICULAR	SLEEVING SCHEDULE
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PREPARED FOR:
CITY OF MIAMI BEACH
IRRIGATION PLAN

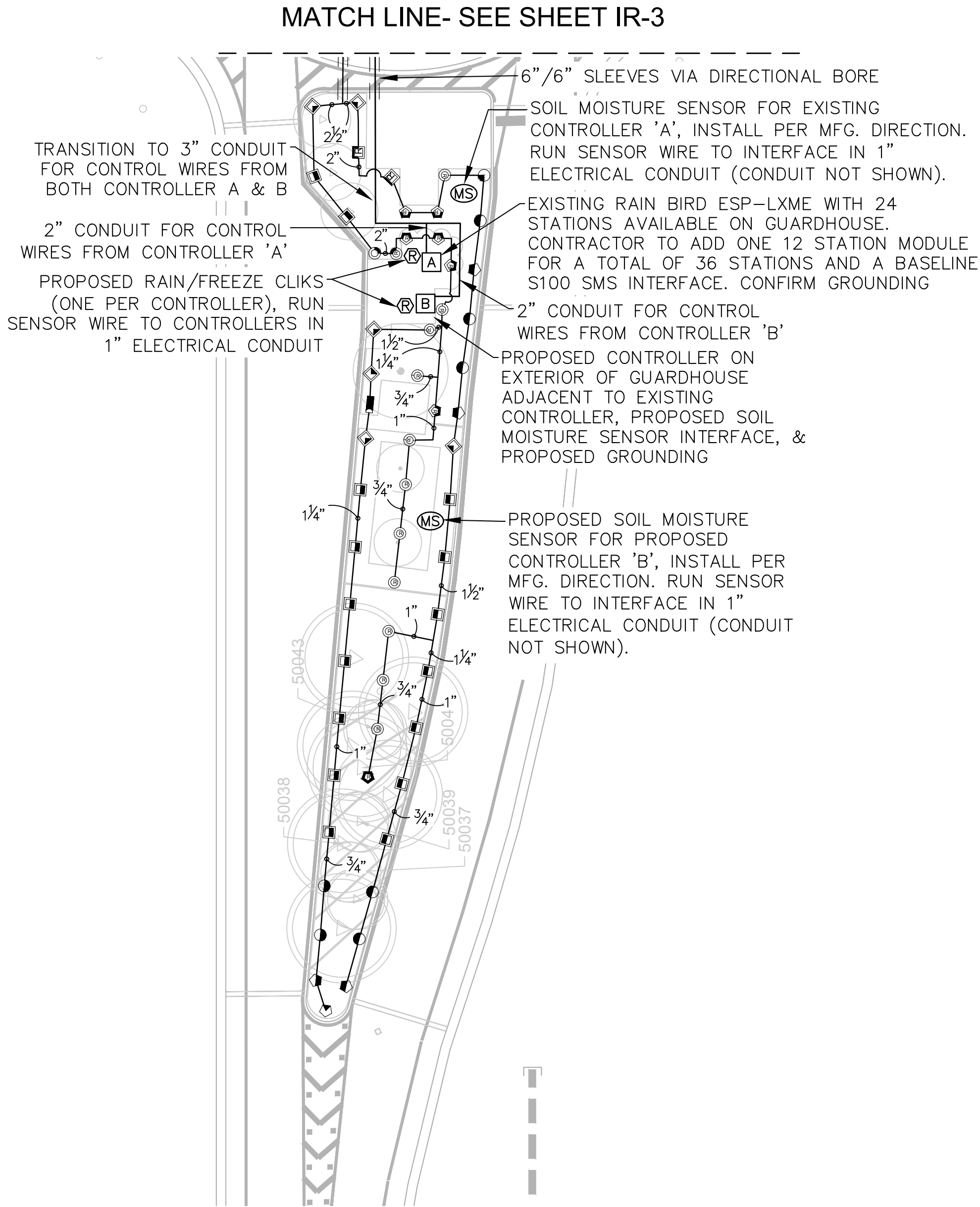
Scott W. Peavler, R.L.A.
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PROJECT NO.
17-0027-001-01

IR-4
SHEET 4 OF 7

DATE:	5/17/19
SCALE:	1"=20'
DESIGN BY:	JMJ
DRAWN BY:	JMJ
CHECKED BY:	TP
APPROVED BY:	MAW
DESCRIPTION:	

C:\MASUEN DESIGN FILES\ CRAVEN THOMPSON\ Palm-Hibiscus Islands_CTA-1923 \Design\2019_0506\17-0027_PALM_IR.dwg [IR-5] May 17, 2019 11:32am JUDY



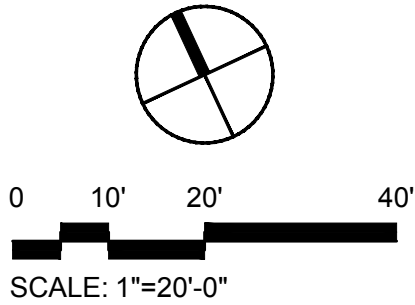
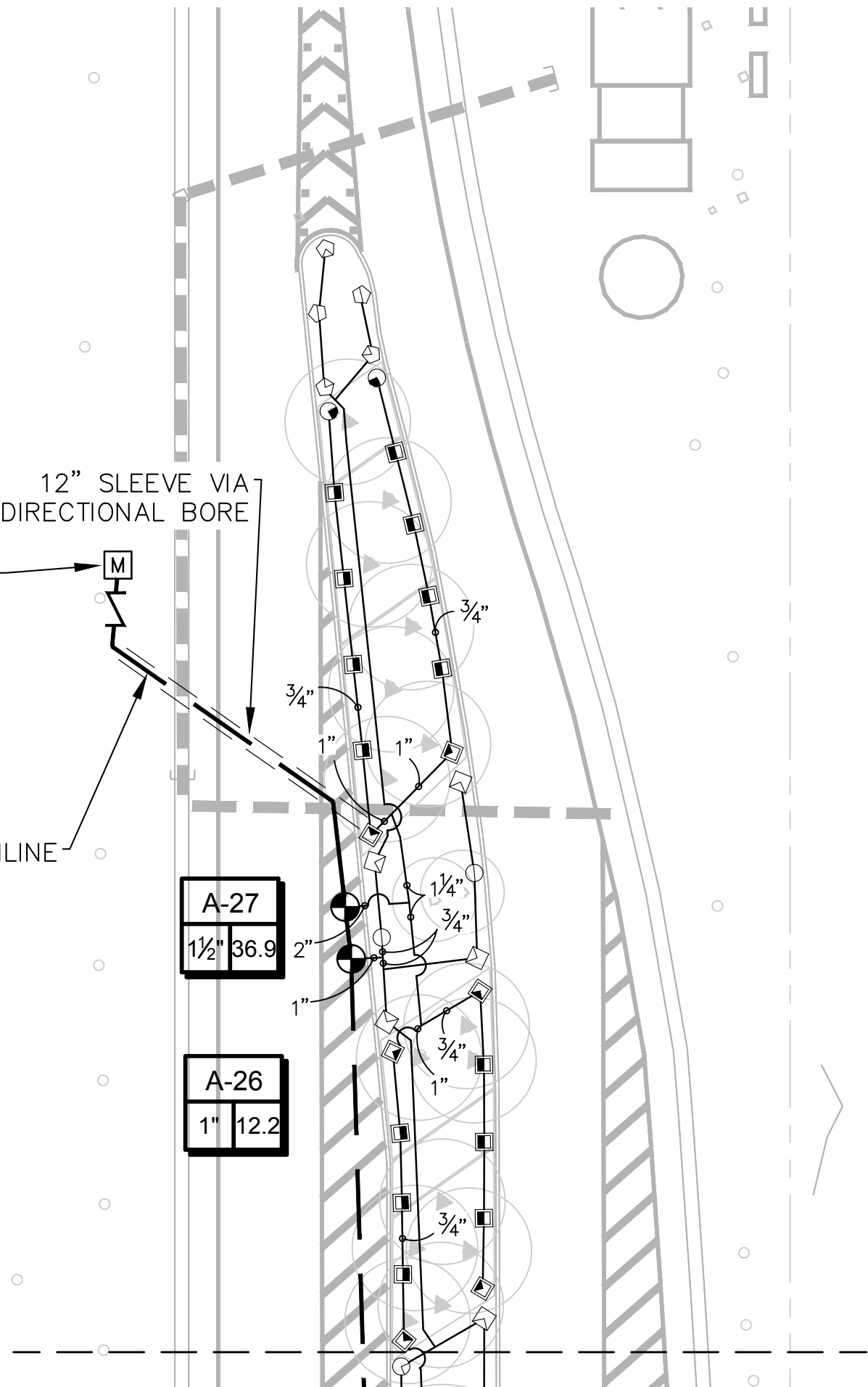
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P.O.C.: EXISTING 3" POTABLE WATER METER & EXISTING 3" AVB. CONTRACTOR TO REMOVE EXISTING 3" AVB AND RETURN TO OWNER, REPLACE WITH PROPOSED 3" DCA.



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Scott W. Peavler, R.L.A.
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PROJECT NO.
17-0027-001-01

IR-5
SHEET 5 OF 7

DATE:	5/17/19
SCALE:	1"=20'
DESIGN BY:	JMJ
DRAWN BY:	JMJ
CHECKED BY:	TP
APPROVED BY:	MAW
DATE:	
BY:	
DESCRIPTION:	

DATE:	5/17/19	NTS	JMJ	JMJ	TP	MAW
SCALE:						
DESIGN BY:						
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						
BY:						
DESCRIPTION:						

