

MATCHLINE - STA: 161+00 - SEE SHEET L201

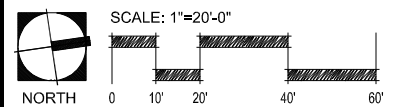
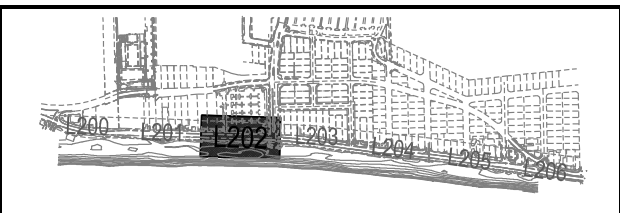
MATCHLINE - STA: 167+00 - SEE SHEET L203

**NOTES:**

- CONTRACTOR TO REPLACE ANY CONCRETE REQUIRED TO BE REMOVED FOR INSTALLATION OF LIGHT POLES. REPLACED CONCRETE TO MATCH SURROUNDING HARDSCAPE.
- EXISTING PAVERS THAT ARE REMOVED FOR NEW CIP HARDSCAPE FLATWORK, TREE PITS AND BOLLARDS TO BE STOCKPILED AND PROTECTED. THESE PAVERS ARE TO BE RE-USED NORTH OF LAS OLAS BOULEVARD TO FILL VOIDS IN THE PAVER FIELDS FROM RELOCATED PALMS AND NEW BOLLARDS.
- RE-USED PAVERS INSTALLED NORTH OF LAS OLAS BOULEVARD TO MATCH EXISTING PATTERN IN COLOR AND LAYOUT.
- SIGNED AND SEALED SHOP DRAWINGS FROM LICENSED STRUCTURAL ENGINEER TO BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW / APPROVAL FOR ANY DESIGN MODIFICATIONS REQUIRED TO BOLLARD FOOTERS DUE TO UTILITY CONFLICTS IN ORDER TO ACHIEVE AN S20 RATING.
- BOLLARDS TO BE EQUALLY SPACED AT 9'-0" O.C., CENTERED BE BETWEEN TREES OR LIGHT POLES. NO GAP TO EXCEED 9" BETWEEN VERTICAL ELEMENTS.
- P-04B HARDSCAPE TO BE SAWCUT TO MATCH AND BE A CONTINUATION OF THE ADJACENT EXISTING CONCRETE PATTERN.

**LEGEND**

CONCRETE PAVING		SITE FURNISHINGS	
	P-01 WHITE PORTLAND CEMENT WITH BLUE GLASS AND SHELL AGGREGATE		BIKE RACK SF-08
	P-02 LAS OLAS INTEGRAL GRAY COLORED CONCRETE		GARBAGE/ RECYCLING CONTAINER SF-11
	P-03 WHITE PORTLAND CEMENT WITH SHELL AGGREGATE		CONCRETE TREE GRATE SF-01A
	P-04A STANDARD GRAY CONCRETE WITH SHELL AGGREGATE		VEHICULAR BOLLARD SF-13
	P-04B STANDARD GRAY CONCRETE		ACCENT SEATING TYPE 1 SF-04
	P-05 RE-USED CONCRETE PAVERS "SEE NOTES"		DETECTABLE WARNINGS SF-14



SEAL:

DATE: 06/27/2019	SCALE: AS SHOWN
DRAWN BY: EDSA	CHECKED BY: EDSA
DESIGNED BY: EDSA	FIELD BOOK:

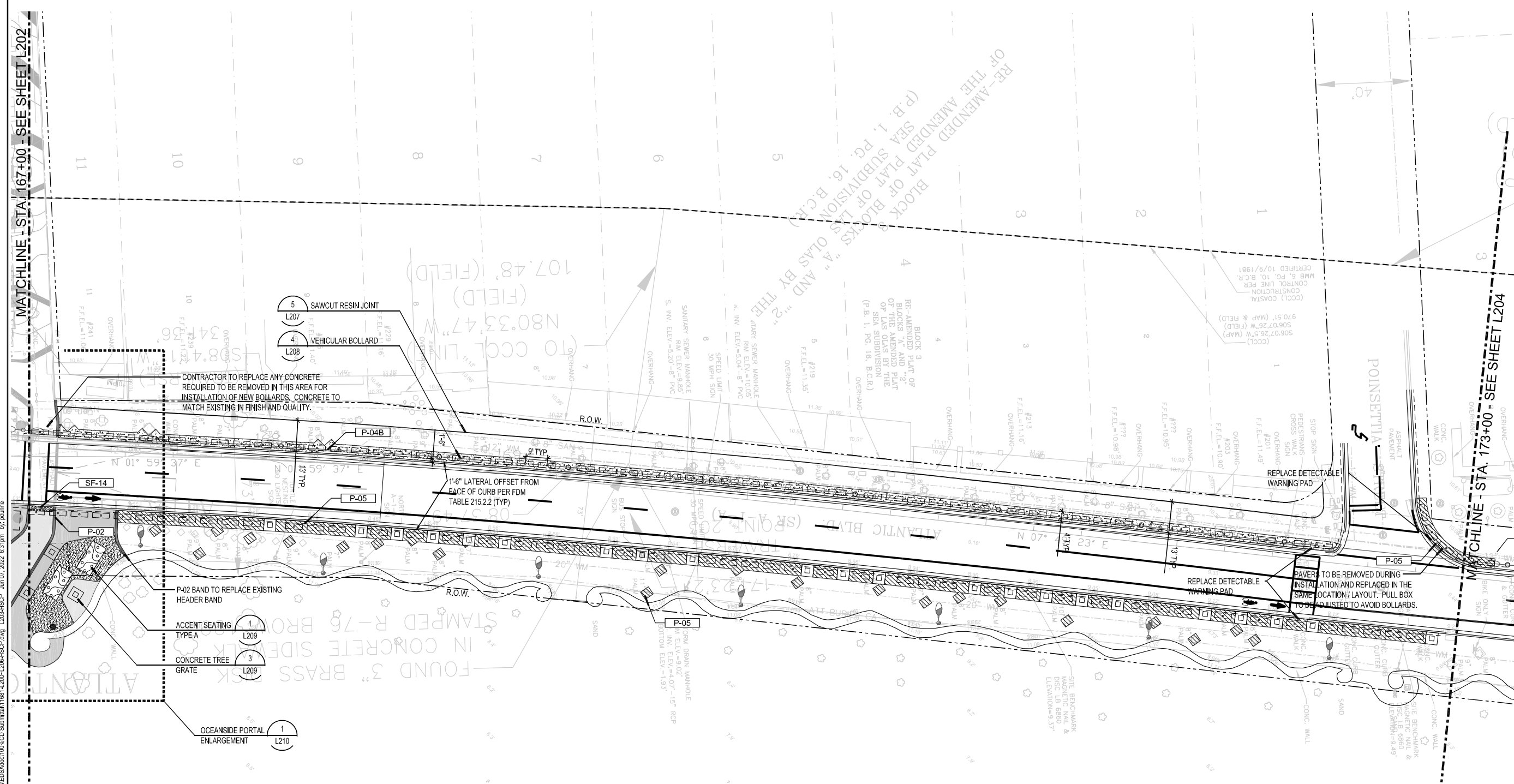
**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY (CHK'D)	DESCRIPTION

**PROJECT # 11681**  
**A1A STREETSCAPE IMPROVEMENTS**  
**FORT LAUDERDALE, FL**  
 FDOT LANDSCAPE PERMIT # 2019-L-491-00003  
**HARDSCAPE PLAN**

SHEET NO. **L202** 1 OF 00



MATCHLINE STA. 167+00 - SEE SHEET L202

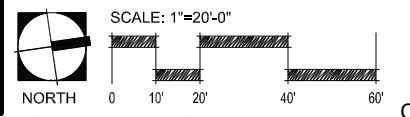
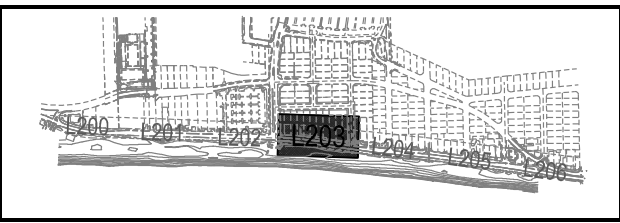
MATCHLINE STA. 173+00 - SEE SHEET L204

**NOTES:**

- CONTRACTOR TO REPLACE ANY CONCRETE REQUIRED TO BE REMOVED FOR INSTALLATION OF LIGHT POLES. REPLACED CONCRETE TO MATCH SURROUNDING HARDSCAPE.
- EXISTING PAVERS THAT ARE REMOVED FOR NEW CIP HARDSCAPE FLATWORK, TREE PITS AND BOLLARDS TO BE STOCKPILED AND PROTECTED. THESE PAVERS ARE TO BE RE-USED NORTH OF LAS OLAS BOULEVARD TO FILL VOIDS IN THE PAVEMENT FROM RELOCATED PALMS AND NEW BOLLARDS.
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**LEGEND**

CONCRETE PAVING		SITE FURNISHINGS	
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	P-02 LAS OLAS INTEGRAL GRAY COLORED CONCRETE		SF-11 GARBAGE/ RECYCLING CONTAINER
	P-03 WHITE PORTLAND CEMENT WITH SHELL AGGREGATE		SF-01A CONCRETE TREE GRATE
	P-04A STANDARD GRAY CONCRETE WITH SHELL AGGREGATE		SF-13 VEHICULAR BOLLARD
	P-04B STANDARD GRAY CONCRETE		SF-04 ACCENT SEATING TYPE 1
	P-05 RE-USED CONCRETE PAVERS 'SEE NOTES'		SF-14 DETECTABLE WARNINGS



DATE:	06.27.2019
DRAWN BY:	EDSA
DESIGNED BY:	EDSA
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SCALE:	AS SHOWN
FIELD BOOK:	

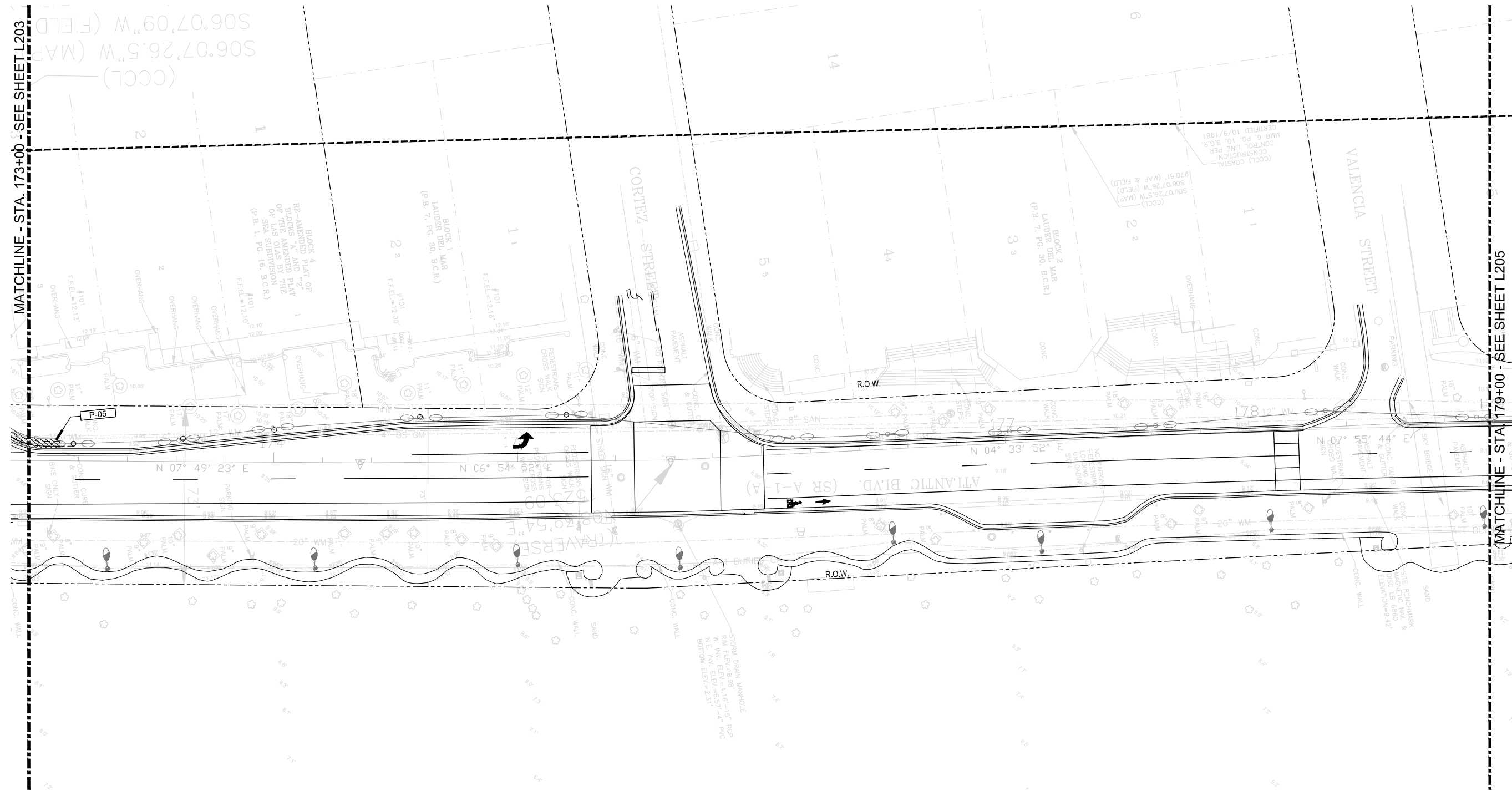
**CITY OF FORT LAUDERDALE**  
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**FORT LAUDERDALE, FL**  
 FDOT LANDSCAPE PERMIT # 2019.L-491-00003  
**HARDSCAPE PLAN**

SHEET NO. **L203** 1 OF 00





MATCHLINE - STA. 173+00 - SEE SHEET L203

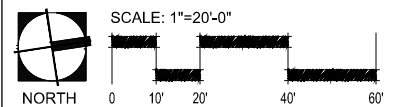
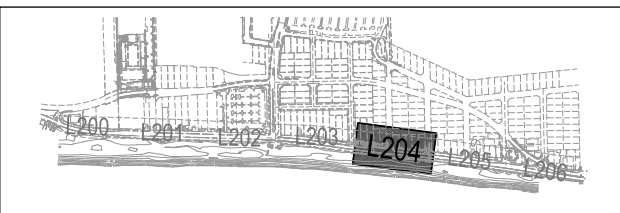
MATCHLINE - STA. 179+00 - SEE SHEET L205

**NOTES:**

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**LEGEND**

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	P-05 RE-USED CONCRETE PAVERS 'SEE NOTES'		



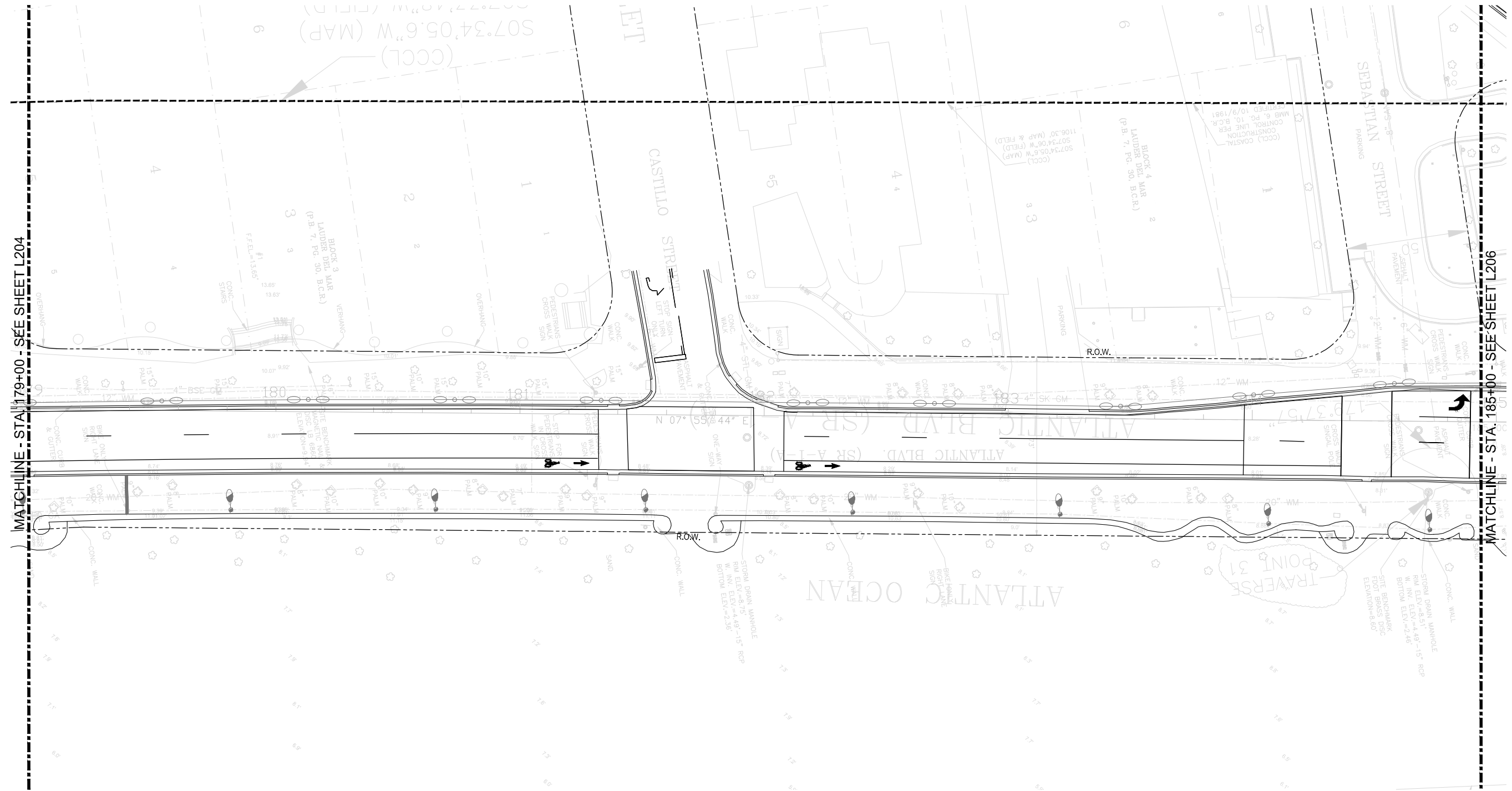
DATE:	08/27/2019
DESIGNED BY:	EDSA
CHECKED BY:	EDSA
SCALE:	AS SHOWN
FIELD BOOK:	

**CITY OF FORT LAUDERDALE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING & ARCHITECTURE  
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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**PROJECT # 11681**  
**A1A STREETSCAPE IMPROVEMENTS**  
**FORT LAUDERDALE, FL**  
FDOT LANDSCAPE PERMIT # 2019-L-491-00003  
**HARDSCAPE PLAN**

SHEET NO. **L204** OF 00



MATCHLINE - STA. 179+00 - SEE SHEET L204

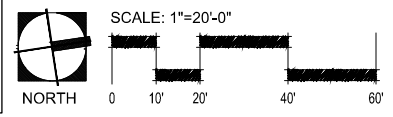
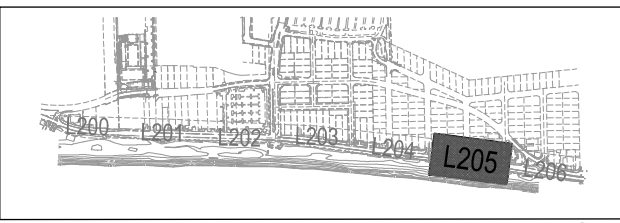
MATCHLINE - STA. 185+00 - SEE SHEET L206

**NOTES:**

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	P-04B STANDARD GRAY CONCRETE		ACCENT SEATING TYPE 1 SF-04
	P-05 RE-USED CONCRETE PAVERS 'SEE NOTES'		



DATE:	08/27/2019
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**CITY OF FORT LAUDERDALE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING & ARCHITECTURE  
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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**100% CONSTRUCTION DRAWINGS**

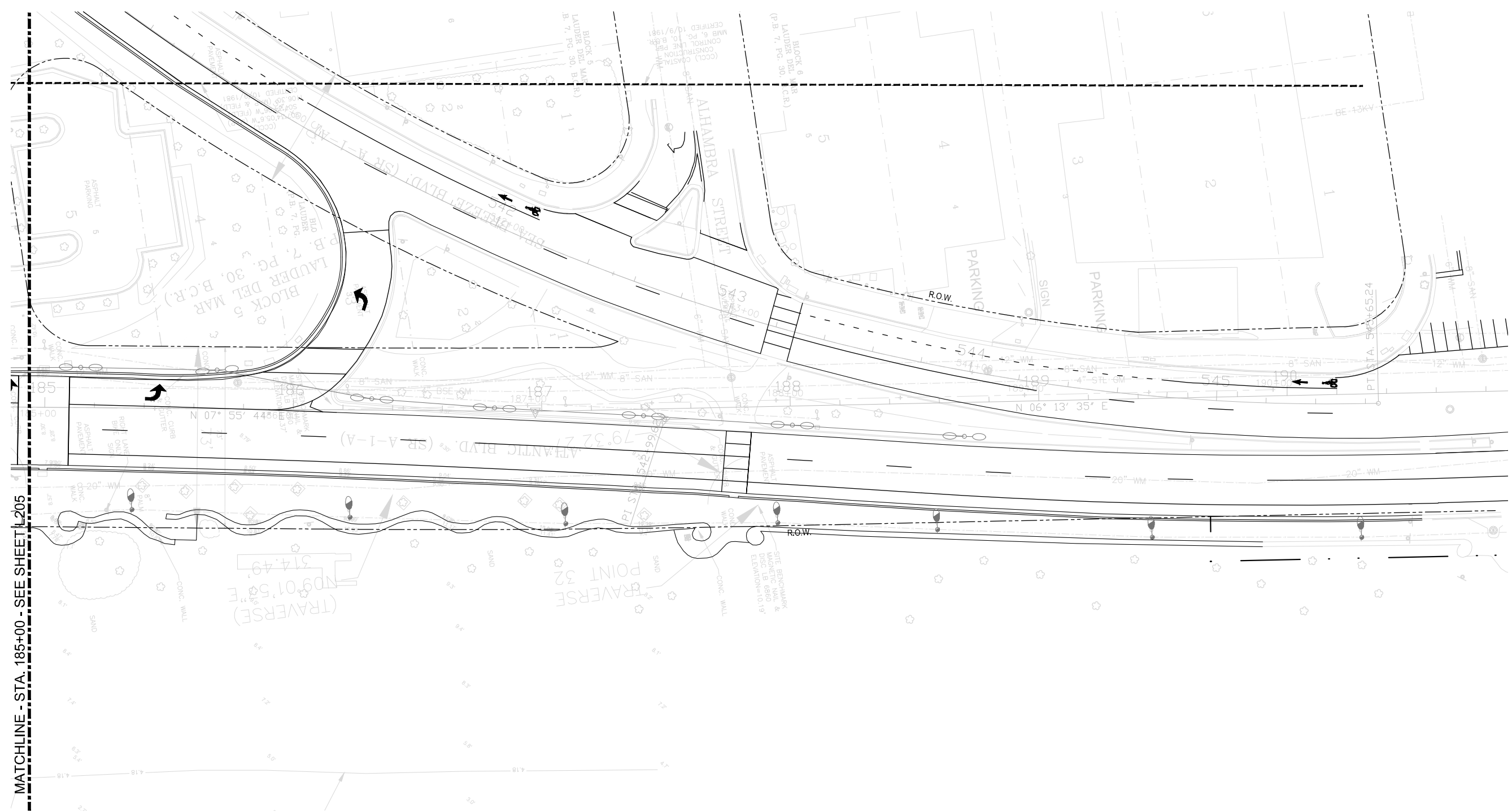
PROJECT # 11681  
A1A STREETSCAPE IMPROVEMENTS  
FORT LAUDERDALE, FL  
FDOT LANDSCAPE PERMIT # 2019.L-491-00003  
HARDSCAPE PLAN

SHEET NO. **L205** 1 OF 00



**Kimley-Horn**  
 1890 S CONGRESS AVE, SUITE 100  
 FORT LAUDERDALE, FL 33301  
 PHONE: 954-330-2345 FAX: 954-330-2245  
 WWW.KIMLEY-HORN.COM CA 00000996

**EDSA, Inc.**  
 1512 E. Broward Blvd. Suite 110  
 Fort Lauderdale, FL 33301  
 954-524-3330

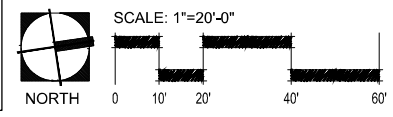
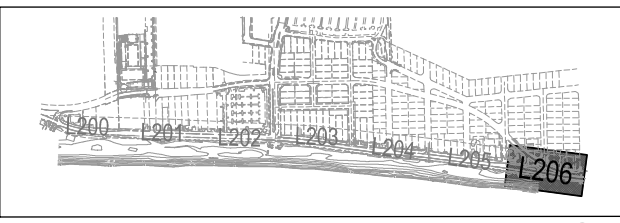


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**LEGEND**

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	<b>P-03</b> WHITE PORTLAND CEMENT WITH SHELL AGGREGATE		<b>SF-01A</b> CONCRETE TREE GRATE
	<b>P-04A</b> STANDARD GRAY CONCRETE WITH SHELL AGGREGATE		<b>SF-13</b> VEHICULAR BOLLARD
	<b>P-04B</b> STANDARD GRAY CONCRETE		<b>SF-04</b> ACCENT SEATING TYPE 1
	<b>P-05</b> RE-USED CONCRETE PAVERS 'SEE NOTES'		



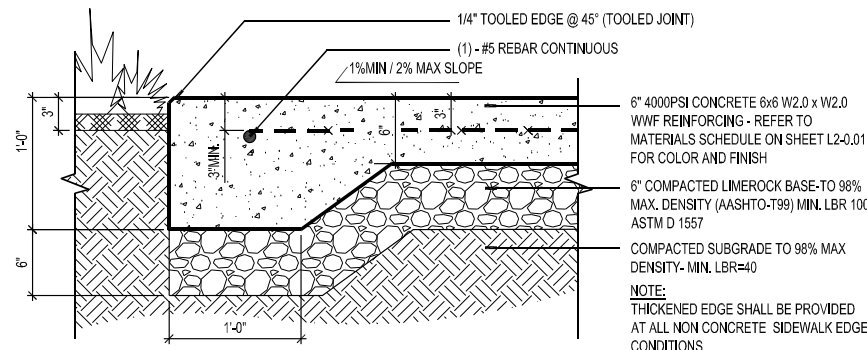
REVISIONS	
NO.	DATE

**100% CONSTRUCTION DRAWINGS**

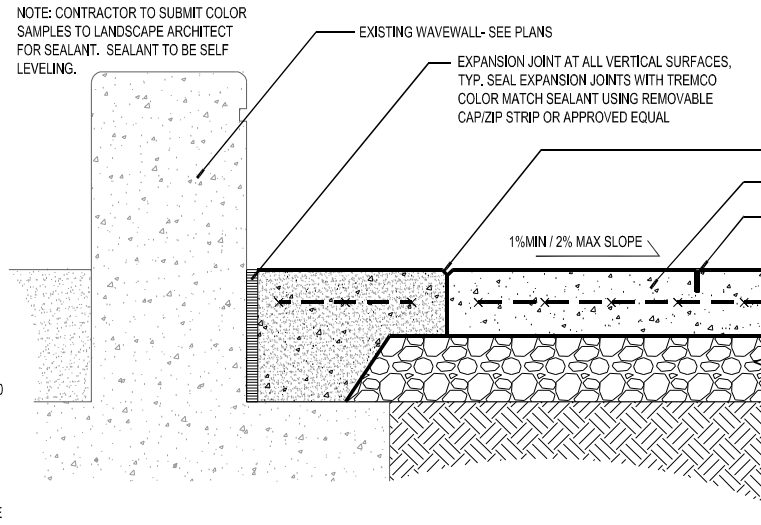
PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-L-491-00003  
 HARDSCAPE PLAN

SHEET NO.  
**L206**  
 1 OF 00

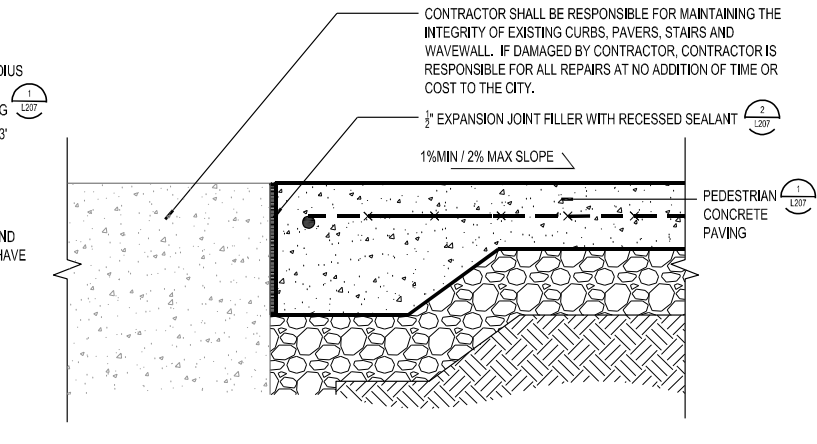
NOTE: PATTERNED PAVEMENT INSTALLATION SHALL COMPLY WITH CURRENT FDOT STANDARD SPECIFICATION 523. ONLINE REFERENCE: [HTTP://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/JANUARY2018/FILES/118EBOOK.PDF](http://www.fdot.gov/programmanagement/implemented/specbooks/january2018/files/118ebook.pdf)



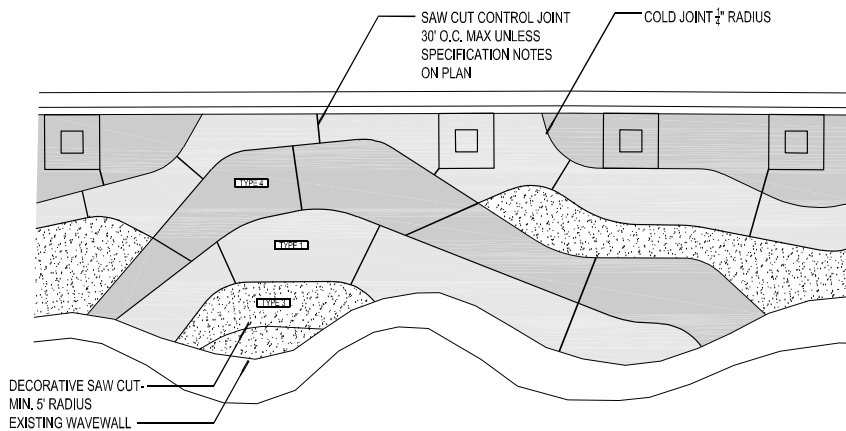
**1** PEDESTRIAN CONCRETE PAVING  
 SECTION  
 D\_CONC-Paving  
 SCALE: 1-1/2"=1'-0"



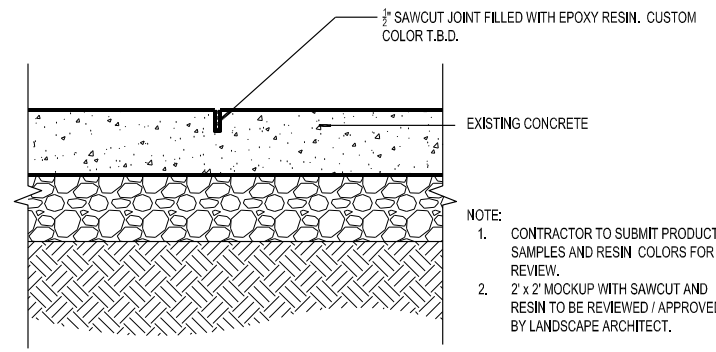
**2** CONCRETE JOINTING DETAIL  
 SECTION  
 D\_CONC-Sawcut  
 SCALE: 1-1/2"=1'-0"



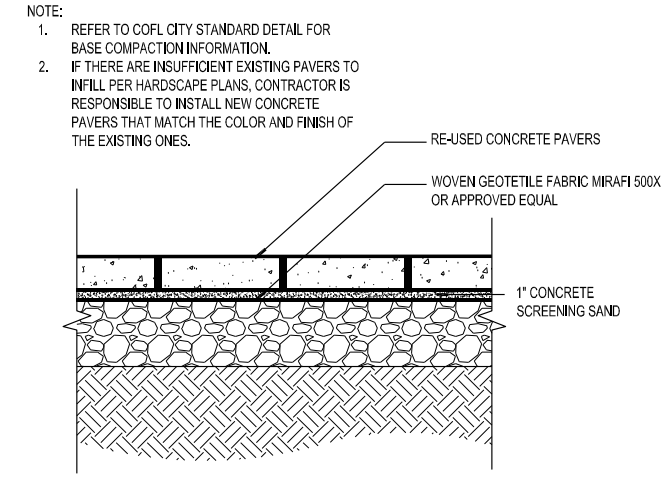
**3** CONCRETE TO EXISTING CONDITIONS  
 SECTION  
 D\_CONC-Concrete Ex Seawall  
 SCALE: 1-1/2"=1'-0"



**4** CONCRETE PAVING - TYPICAL JOINTING  
 SECTION  
 SCALE: 1/8"=1'-0"



**5** SAW CUT RESIN JOINT  
 SECTION  
 D\_CONC-SAW CUT RESIN JOINT  
 SCALE: 1-1/2"=1'-0"



**6** RE-USED CONCRETE PAVERS  
 SECTION  
 D\_PAVR-RE USED  
 SCALE: 1-1/2"=1'-0"

SCALE:

DATE:	06/27/2019
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DESIGNED BY:	EDSA
CHECKED BY:	EDSA
FIELD BOOK:	

CITY OF FORT LAUDERDALE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019.L-491-00003  
 HARDSCAPE DETAILS

SHEET NO.	1 OF 00
L207	



**Product Information** **TF1196**



**Finish Options:**  
WHITE PORTLAND CEMENT WITH BLUE GLASS AGGREGATE

**Size:** 29" Dia. X 40" H  
**Weight:** 1,050 Lbs.  
**Capacity:** 2 - 27 gallon plastic liners  
**Material:** Reinforced concrete  
**Reinforcing:** 1/4" Dia. steel rebar  
**Parts:** 1- polyethylene plastic 2 hole lid  
2- 27 gal. Polyethylene liner  
1- Tamper proof security cable assembly  
4- 1/2" Elevator bolts for leveling

**Lage Options:** - 8" Dia Inkjet City of Fort Lauderdale logo  
- Custom cast in band

**Plastic Lid:**  
Gray Granite(55)



One Packaging Division PO Box 1525, Wausau, WI 54481-1525 (800) 368-8726  
Date: 10/11/12

**NOTE:**  
GARBAGE/RECYCLING CONTAINERS TO MATCH LAS OLAS CORRIDOR IMPROVEMENTS PROJECT #11900 AS PURCHASED BY THE CITY OF FORT LAUDERDALE.

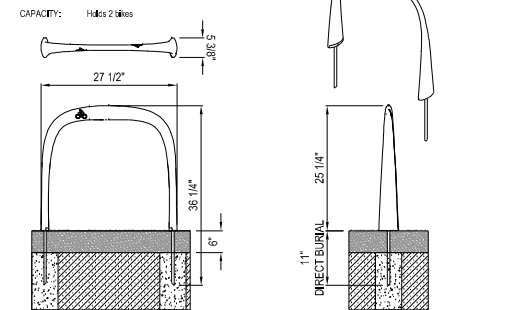
**MANUFACTURER:**  
WAUSAU MADE  
CONTACT: TROY DAHLKE  
813.334.0016

**1 GARBAGE/ RECYCLING CONTAINER** D\_FURN-Container  
WAUSAU SCALE: FULL

**SCBR1600-DB** **1600 SERIES**

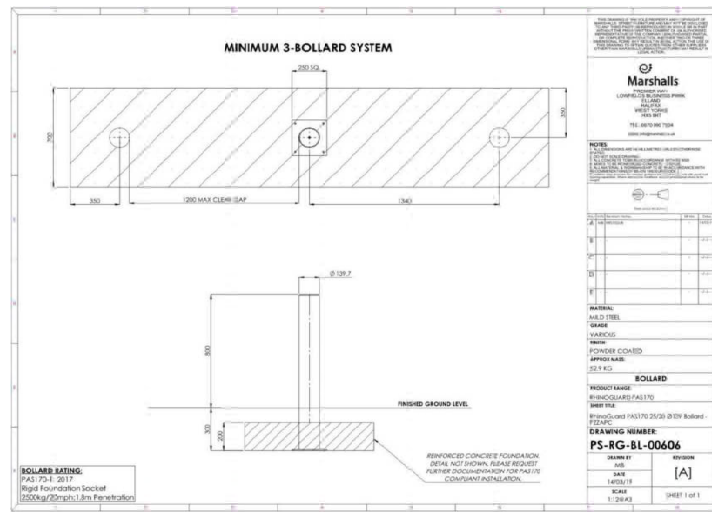


**MATERIALS:** The Bike Rack is made from solid cast aluminum.  
**FINISH:** The Maglin Powdercoat System provides a durable finish on all metal surfaces.  
**DIMENSIONS:** Height - 36.25" (92.1cm)  
Length - 27.5" (69.8cm)  
Width - 3.75" (9.5cm)  
Weight - 22lbs (10kg)



**NOTE:**  
1. FOOTER DEPTHS PER MANUFACTURERS RECOMMENDATIONS  
2. PAVEMENT VARIES - SEE HARDSCAPE PLAN

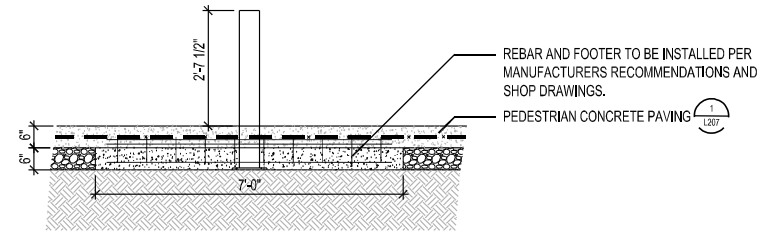
**3 BIKE RACK** D\_FURN-Bike Rack  
MAGLIN - SITE FURNITURE SCALE: FULL



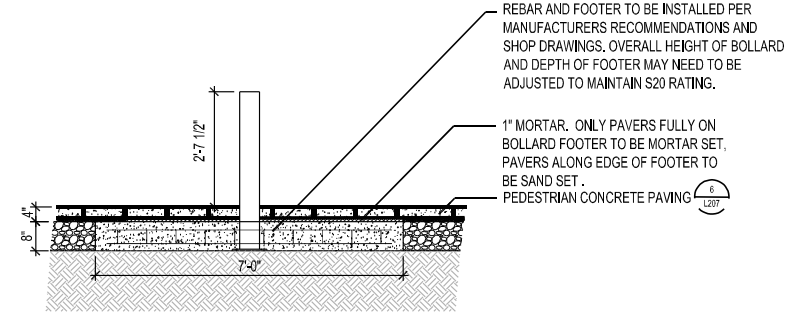
TYPICAL DETAIL FOR FIXED BOLLARD: 2500kg/20mph VEHICULAR RATING

- NOTE:**
- WHEN BOLLARD IS LOCATED IN HARDSCAPE- TOP OF FOOTER IS TO BE CONCEALED UNDER CONCRETE FLATWORK OR PAVER SURFACE.
  - CONTRACTOR IS RESPONSIBLE FOR ANY CUSTOM FOOTER OR ALTERNATE FOOTER DESIGN OR CALCULATIONS DUE TO CONFLICTS WITH EXISTING UTILITIES TO MEET THE S20 RATING.
  - BOLLARDS TO BE 316 SS WITH A WITH AN AKZONOBEL THERMOSET FINISH - RAL COLOR TO BE 7035- WARRANTY FOR THE FINISH TO BE A MINIMUM OF 25 YEARS.
  - CONTRACTOR TO SUBMIT CARBON STEEL (MILD STEEL) BOLLARDS WITH AN AKZONOBEL THERMOSET FINISH AS DEDUCT ALTERNATE - RAL COLOR TO BE 7035. WARRANTY FOR THE FINISH TO BE A MINIMUM OF 25 YEARS.
  - SHOP DRAWINGS TO BE PROVIDED, SIGNED AND SEALED BY A FLORIDA LICENSED STRUCTURAL ENGINEER.

**2 FIXED VEHICULAR BOLLARD** D\_FURN-Vehic Bollard  
MARSHALLS BOLLARDS SCALE: FULL



COVERAGE 1: CONCRETE



COVERAGE 2: PAVERS

REBAR AND FOOTER TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS.

REBAR AND FOOTER TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. OVERALL HEIGHT OF BOLLARD AND DEPTH OF FOOTER MAY NEED TO BE ADJUSTED TO MAINTAIN S20 RATING.

1" MORTAR. ONLY PAVERS FULLY ON BOLLARD FOOTER TO BE MORTAR SET. PAVERS ALONG EDGE OF FOOTER TO BE SAND SET.

Bid 12662-223  
**Kimley-Horn**  
EDSA, Inc.  
1512 E. Broward Blvd, Suite 110  
Fort Lauderdale, FL 33301  
(954) 524-3330

SEAL:

DATE: 05/27/2019  
DRAWN BY: EDSA  
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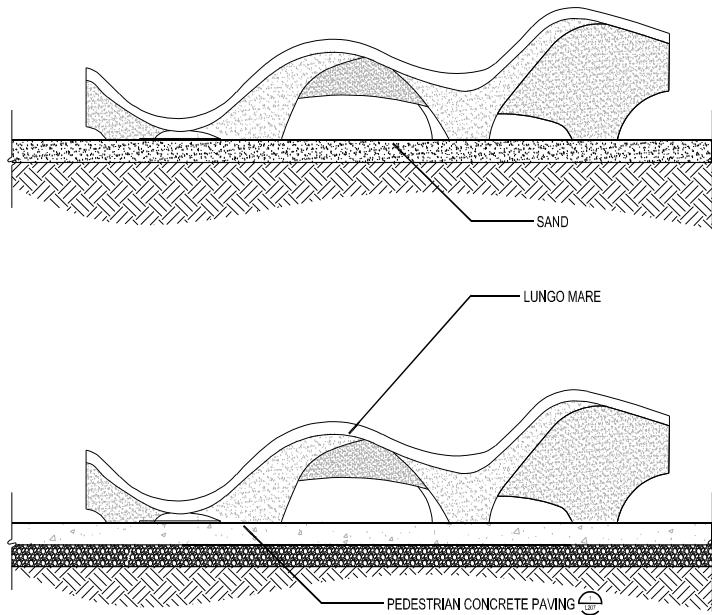
REVISIONS		DESCRIPTION
NO.	DATE	BY (CHK'D)

PROJECT # P11681  
A1A STREETSCAPE IMPROVEMENTS  
FORT LAUDERDALE, FL  
FDOT LANDSCAPE PERMIT # 2019.L-491-00003  
HARDSCAPE DETAILS

SHEET NO. **L208**  
1 OF 00

**Kimley-Horn**  
 CONSULTING ENGINEERS  
 1512 E. Broward Blvd., Suite 110  
 Fort Lauderdale, FL 33301  
 (954) 524-3300

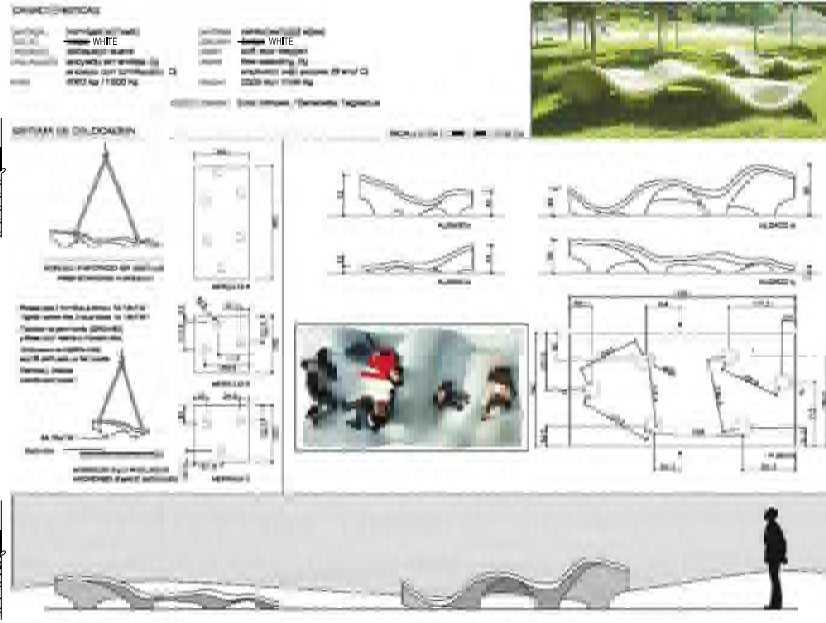
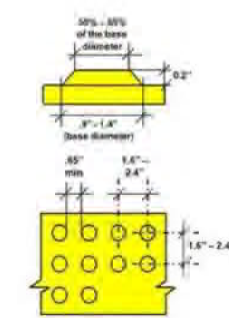
DATE:	06/27/2019
DESIGNED BY:	EDSA
CHECKED BY:	EDSA
SCALE:	AS SHOWN
FIELD BOOK:	



MANUFACTURER: LANDSCAPE FORMS  
 CONTACT: MICHELLE MONTESANO 800.430.6206

**1 ACCENT SEATING - TYPE A**  
 ESCOFET\_LUNGO MARE

D. Escofet\_Slope  
 SCALE: 1/2"=1'-0"

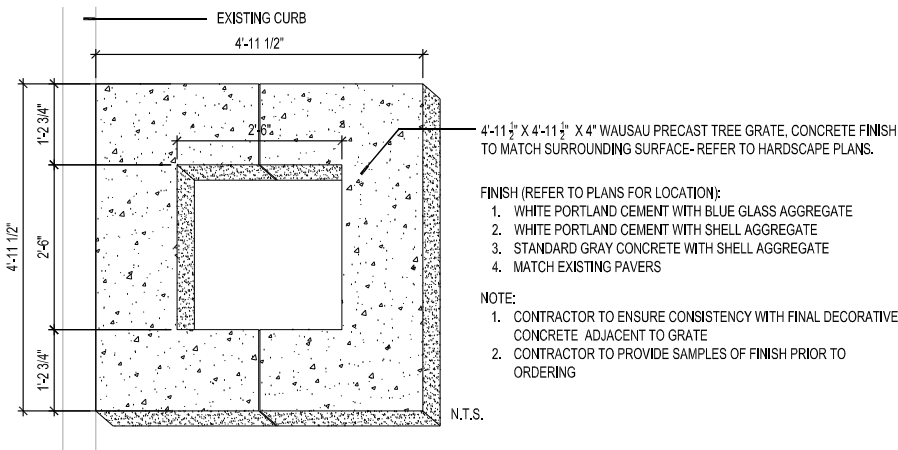
ADA STANDARDS  
 MINIMUM REQUIREMENTS

NOTE: TO BE INSTALLED AT ALL CROSSWALKS - REFER TO CIVIL DRAWINGS.  
 316 SS - SAMPLES TO BE PROVIDED TO LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

- TACTILE INDICATOR WARNING STUDS
- MODEL: LTSTL(25MM)
- MANUFACTURER: LATHAM AUSTRALIA
- ADDRESS: 14 TENNYSON ROAD GLADESVILLE 2111 NSW AUSTRALIA
- PHONE: +61283153202
- WWW.LATHAM-AUSTRALIA.COM
- NOTE: LAYOUT PATTERN TO MEET/COMPLY WITH ADA, FCC, AND FACBC STANDARDS
- CONTRACTOR TO WASH OUT ALL CONCRETE DUST AND DRY HOLES PRIOR TO INSTALLATION
- INSTALLATION: PER MANUFACTURER'S SPECIFICATIONS.

**2 DETECTABLE WARNING INDICATORS**  
 WAUSAU

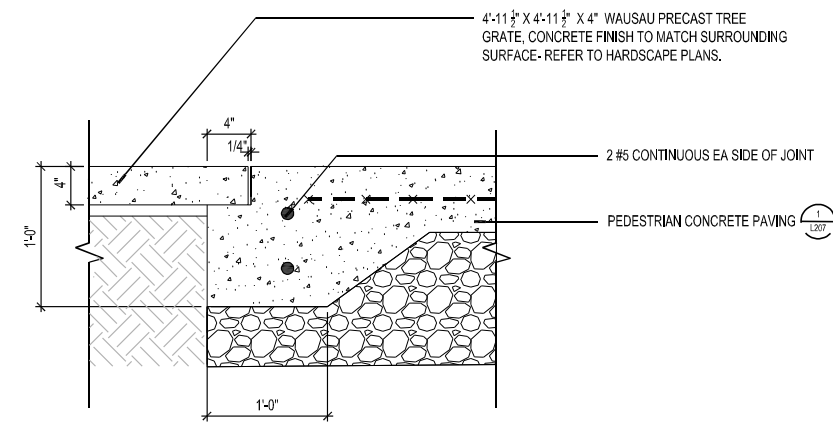
SCALE: FULL



FINISH (REFER TO PLANS FOR LOCATION):  
 1. WHITE PORTLAND CEMENT WITH BLUE GLASS AGGREGATE  
 2. WHITE PORTLAND CEMENT WITH SHELL AGGREGATE  
 3. STANDARD GRAY CONCRETE WITH SHELL AGGREGATE  
 4. MATCH EXISTING PAVERS

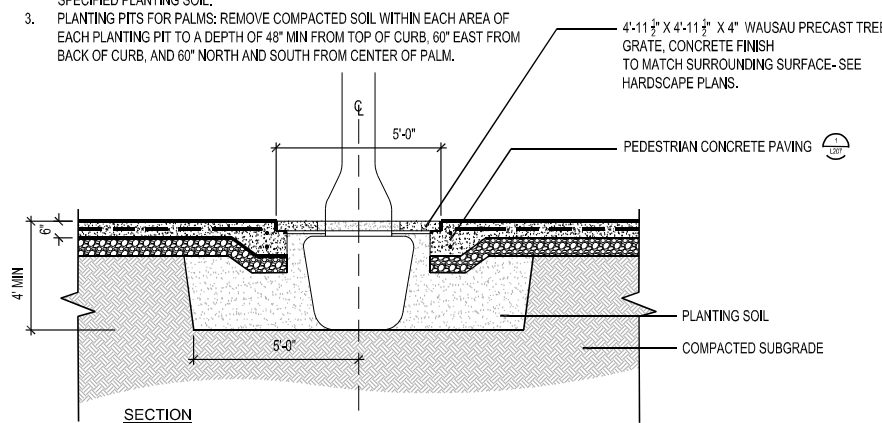
NOTE:  
 1. CONTRACTOR TO ENSURE CONSISTENCY WITH FINAL DECORATIVE CONCRETE ADJACENT TO GRATE  
 2. CONTRACTOR TO PROVIDE SAMPLES OF FINISH PRIOR TO ORDERING

NOTE:  
 1. WHERE NOT CONFLICTING WITH THE ROOTBALL OF PROPOSED LANDSCAPE MATERIAL, CONTRACTOR SHALL PRESERVE A CONTINUOUS BAND OF UNDISTURBED COMPACTED SUB-BASE 18" FROM THE BACK OF CURB.  
 2. CONTRACTOR SHALL INSURE THAT ALL UNSUITABLE SOIL INCLUDING CONCRETE, PAVEMENT, ROAD BASE, STONES OVER 3" DIAMETER AND ALL CONSTRUCTION DEBRIS, IS REMOVED FROM THE AREA TO BE PLANTED AND REPLACED WITH SPECIFIED PLANTING SOIL.  
 3. PLANTING PITS FOR PALMS: REMOVE COMPACTED SOIL WITHIN EACH AREA OF EACH PLANTING PIT TO A DEPTH OF 48" MIN FROM TOP OF CURB, 60" EAST FROM BACK OF CURB, AND 60" NORTH AND SOUTH FROM CENTER OF PALM.

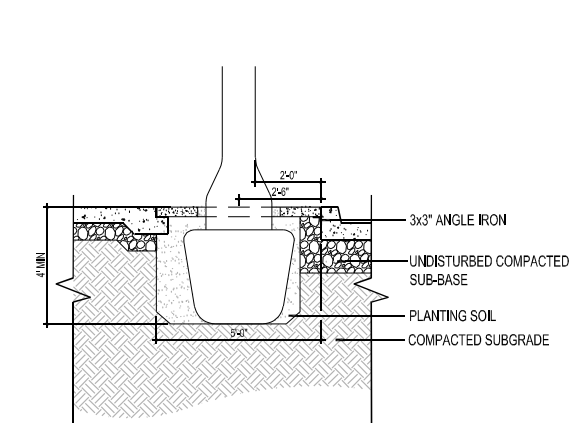


**3 PRECAST GRATE - CONCRETE**

D. GRATE-PrecastConcrete  
 SCALE: 1-1/2"=1'-0"



**4 SAND PLANTER BASE**



SCALE: 3/8"=1'-0"

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # P11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019.L-491-00003  
**HARDSCAPE DETAILS**

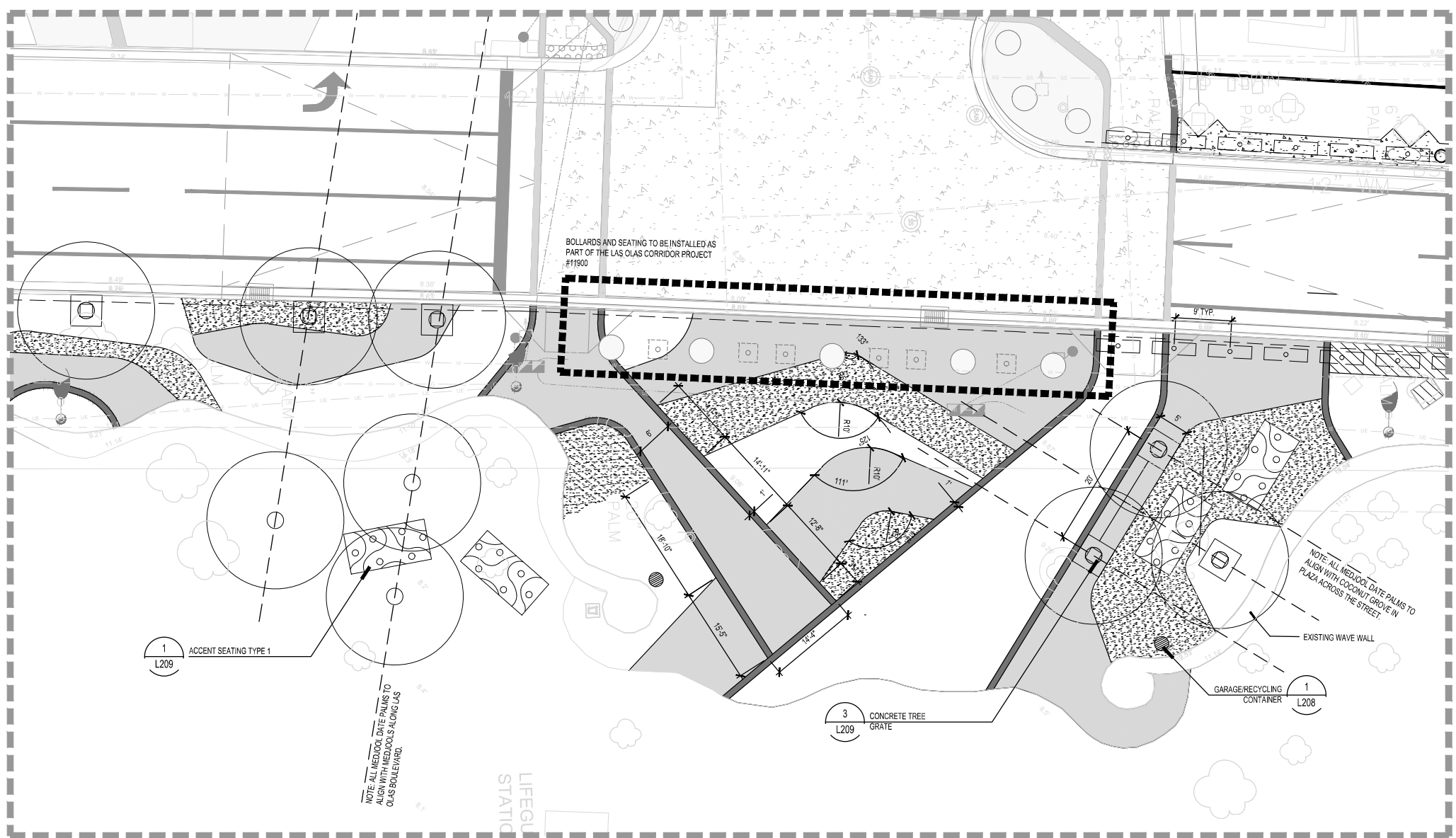
SHEET NO.	1 OF 00
FILE	L209



**Kimley-Horn**  
 1890 S CONGRESS AVE, SUITE 100,  
 DEER BEACH, FL 33441  
 PHONE: 561-330-2340 FAX: 561-330-2245  
 WWW.KIMLEY-HORN.COM CA 00000699

**EDSA, Inc.**  
 1512 E. Broward Blvd. Suite 110  
 Fort Lauderdale, FL 33301  
 954.524.3330

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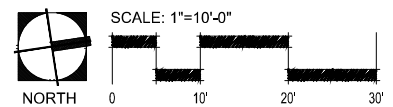
**1 OCEANSIDE PORTAL** D\_A-1 Enlargement  
 ENLARGEMENT

**NOTES:**

- CONTRACTOR TO REPLACE ANY CONCRETE REQUIRED TO BE REMOVED FOR INSTALLATION OF LIGHT POLES. REPLACED CONCRETE TO MATCH SURROUNDING HARDSCAPE.
- EXISTING PAVERS THAT ARE REMOVED FOR NEW CIP HARDSCAPE FLATWORK, TREE PITS AND BOLLARDS TO BE STOCKPILED AND PROTECTED. THESE PAVERS ARE TO BE RE-USED NORTH OF LAS OLAS BOULEVARD TO FILL VOIDS IN THE PAVEMENT FROM RELOCATED PALMS AND NEW BOLLARDS.
- RE-USED PAVERS INSTALLED NORTH OF LAS OLAS BOULEVARD TO MATCH EXISTING PATTERN IN COLOR AND LAYOUT.
- SIGNED AND SEALED SHOP DRAWINGS FROM LICENSED STRUCTURAL ENGINEER TO BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW / APPROVAL FOR ANY DESIGN MODIFICATIONS REQUIRED TO BOLLARD FOOTERS DUE TO UTILITY CONFLICTS IN ORDER TO ACHIEVE AN S20 RATING.
- BOLLARDS TO BE EQUALLY SPACED AT 9' O.C., CENTERED BETWEEN TREES OR LIGHT POLES. NO GAP TO EXCEED 9' BETWEEN VERTICAL ELEMENTS.
- P-04B HARDSCAPE TO BE SAWCUT TO MATCH AND BE A CONTINUATION OF THE ADJACENT EXISTING CONCRETE PATTERN.

**LEGEND**

CONCRETE PAVING		SITE FURNISHINGS	
	<b>P-01</b> WHITE PORTLAND CEMENT WITH BLUE GLASS AND SHELL AGGREGATE		BIKE RACK <b>SF-08</b>
	<b>P-02</b> LAS OLAS INTEGRAL GRAY COLORED CONCRETE		GARBAGE/ RECYCLING CONTAINER <b>SF-11</b>
	<b>P-03</b> WHITE PORTLAND CEMENT WITH SHELL AGGREGATE		CONCRETE TREE GRATE <b>SF-01A</b>
	<b>P-04A</b> STANDARD GRAY CONCRETE WITH SHELL AGGREGATE		VEHICULAR BOLLARD <b>SF-13</b>
	<b>P-04B</b> STANDARD GRAY CONCRETE		ACCENT SEATING TYPE 1 <b>SF-04</b>
	<b>P-05</b> RE-USED CONCRETE PAVERS *SEE NOTES*		



SEAL:

DATE: 06.27.2019	SCALE: AS SHOWN
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CHECKED BY: EDSA	FILED BOOK:

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

**100% CONSTRUCTION DRAWINGS**

PROJECT # P11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-L-491-00003  
**HARDSCAPE ENLARGEMENT**

SHEET NO.	1 OF 00
DATE	06/27/2019

MATERIAL SCHEDULE

KEY	ITEM	DETAIL NO.	MANUFACTURER	CONTACT	MODEL	COLOR	FINISH	PATTERN	NOTES
<b>HARDSCAPE PAVING</b>									
P-01	CONCRETE PAVING; WHITE PORTLAND CEMENT WITH BLUE GLASS AND SHELL AGGREGATE	1/L207	N/A	N/A	N/A	CONCRETE PAVING; WHITE PORTLAND CEMENT WITH BLUE GLASS AND SHELL AGGREGATE	HYDROBLAST / MISTBLAST OR RETARDANT, T.B.D. PER MOCK-UP	N/A	1. ALL SAND, CEMENT AND AGGREGATE FOR THE ENTIRE PROJECT SHALL BE FROM THE SAME MIX AND BATCH PLANT. 2. CONCRETE SHALL CONTAIN 100% WHITE PORTLAND CEMENT. 3. ALL FORMWORK SHALL BE FORMED AND STAMPED WITH CONSISTENT STRAIGHT SEGMENTS AND UNIFORM CURED TRANSITIONS. 4. ALL FORMWORK SHALL BE INSPECTED BY LANDSCAPE ARCHITECT PRIOR TO POURING. 5. PROTECT ALL ADJACENT CONCRETE FROM OVERSPILL. 6. CONTRACTOR TO INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. 7. CONTRACTOR TO PROVIDE (3) THREE REFERENCE PROJECTS OF INSTALLATION FOR SIMILAR MATERIAL. 8. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 9. FOR ALL INTEGRAL COLOR CONCRETE LOCATIONS USE LITHOCHROME COLOR WAX - SEE PLANS FOR LOCATIONS AND SPECIFICATIONS FOR FURTHER DETAILS. 10. ALL CONCRETE SHALL BE 4000 PSI. 11. CONTRACTOR TO PROVIDE 5X5 MOCK-UPS FOR LANDSCAPE ARCHITECTS APPROVAL PRIOR TO INSTALLATION.
P-02	LAS OLAS GRAY INTEGRAL COLOR CONCRETE	1/L207	LM SCOFIELD	BILL COLLESTER PHONE: (727) 515-1849	N/A	CONCRETE SHALL BE GRAY CEMENT BASE WITH GRAY INTEGRAL COLOR, LAS OLAS DARK GRAY.	HYDROBLAST / MISTBLAST OR RETARDANT, T.B.D. PER MOCK-UP	N/A	
P-03	CONCRETE PAVING; WHITE PORTLAND CEMENT WITH SHELL AGGREGATE	1/L207	N/A	N/A	N/A	WHITE PORTLAND CEMENT SHELL AGGREGATE.	HYDROBLAST / MISTBLAST OR RETARDANT, T.B.D. PER MOCK-UP	N/A	
P-04A	CONCRETE PAVING; STANDARD GRAY CONCRETE WITH SHELL AGGREGATE	1/L207	N/A	N/A	N/A	STANDARD GRAY CEMENT SHELL AGGREGATE.	HYDROBLAST / MISTBLAST OR RETARDANT, T.B.D. PER MOCK-UP	N/A	
P-04B	CONCRETE PAVING; STANDARD GRAY CONCRETE	1/L207	N/A	N/A	N/A	STANDARD GRAY CEMENT	HYDROBLAST / MISTBLAST OR RETARDANT, T.B.D. PER MOCK-UP	MATCH EXISTING	
P-05	RE-USED PAVERS	6/L207	N/A	N/A	N/A	COLOR, FINISH, AND PATTERN TO MATCH SURROUNDING HARDSCAPE, STANDARD GRAY CEMENT	COLOR, FINISH, AND PATTERN TO MATCH SURROUNDING HARDSCAPE.	COLOR, FINISH, AND PATTERN TO MATCH SURROUNDING HARDSCAPE.	
SF-07A	PRECAST CONCRETE TREE GRATE	3/L209	WAUSA TILE - WAUSA MADE WWW.WAUSAMADE.COM	TROY DAHLKE PHONE: (813) 907-1756 9001 BUS HWY 51 ROTHSCHILD, WI 54474	4'-11 1/2" X 4'-11 1/2" X 4"		FINISH TO MATCH SURROUNDING HARDSCAPE, SEE PLANS.		CONTRACTOR TO INSTALL PER MANUFACTURER'S SPECIFICATIONS.
SF-04	ACCENT SEATING - TYPE A	1/L209	ESCOFET	MICHELLE MONTESANO PHONE: 800-430-6206	LUNGO MARE-ALZADO A	REINFORCED CAST STONE - COLOR WHITE	SOFT ACID-TREATED	N/A	CONTRACTOR TO PROVIDE STRUCTURAL FOUNDATION AS REQUIRED. CONTRACTOR INSTALL PER MANUFACTURER'S SPECIFICATIONS.
SF-08	BIKE RACK	3/L208	MAGLIN CORPORATION WWW.MAGLIN.COM	LACEY HANCHRUK PHONE: (800) 716-5506 X188 27 BYSHAM PARK DR. WOODSTOCK, ONTARIO	1600 SERIES SCBR1600	CUSTOM COLOR	MATTE	N/A	
SF-11	GARBAGE / RECYCLING CONTAINER	1/L208	WAUSAU		TF1196		WHITE PORTLAND CEMENT	BLUE GLASS AGGREGATE TO MATCH TREE GRATES/P-01	TO MATCH EXISTING SIZE AND MODEL AS PURCHASED BY THE CITY OF FORT LAUDERDALE
SF-13	FIXED BOLLARD (S20 RATING)	2/L208	CALPIPE SECURITY BOLLARDS WWW.CALPIPES.COM	GREG DAVIDSON 803-388 ext. 235 PHONE: (562)	BF06080-ENG0002	POWDER COAT RAL: 7035 LIGHT GRAY	316 STAINLESS STEEL- ZINC PRIMER COATING WITH POWDER COAT FINISH	6" FLAT TOP	CONTRACTOR TO INSTALL PER MANUFACTURER'S SPECIFICATIONS. WHEN BOLLARD IS LOCATED IN HARDSCAPE CONTRACTOR TO ENSURE TOP OF FOOTER IS CONCEALED UNDER CONCRETE FLATWORK OR PAVEMENT SURFACE.

SEAL:

DATE: 08/27/2019  
 DRAWN BY: EDSA  
 DESIGNED BY: EDSA  
 CHECKED BY: EDSA  
 SCALE: AS SHOWN  
 FIELD BOOK:

CITY OF FORT LAUDERDALE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-L-491-0003  
 HARDSCAPE SCHEDULE

SHEET NO.  
**L211**  
 1 OF 00

BID SET

I warrant that the information contained herein is true and correct to the best of my knowledge and belief, and that I am not aware of any information that would cause this information to be materially misleading. I warrant that the information contained herein is true and correct to the best of my knowledge and belief, and that I am not aware of any information that would cause this information to be materially misleading. I warrant that the information contained herein is true and correct to the best of my knowledge and belief, and that I am not aware of any information that would cause this information to be materially misleading.



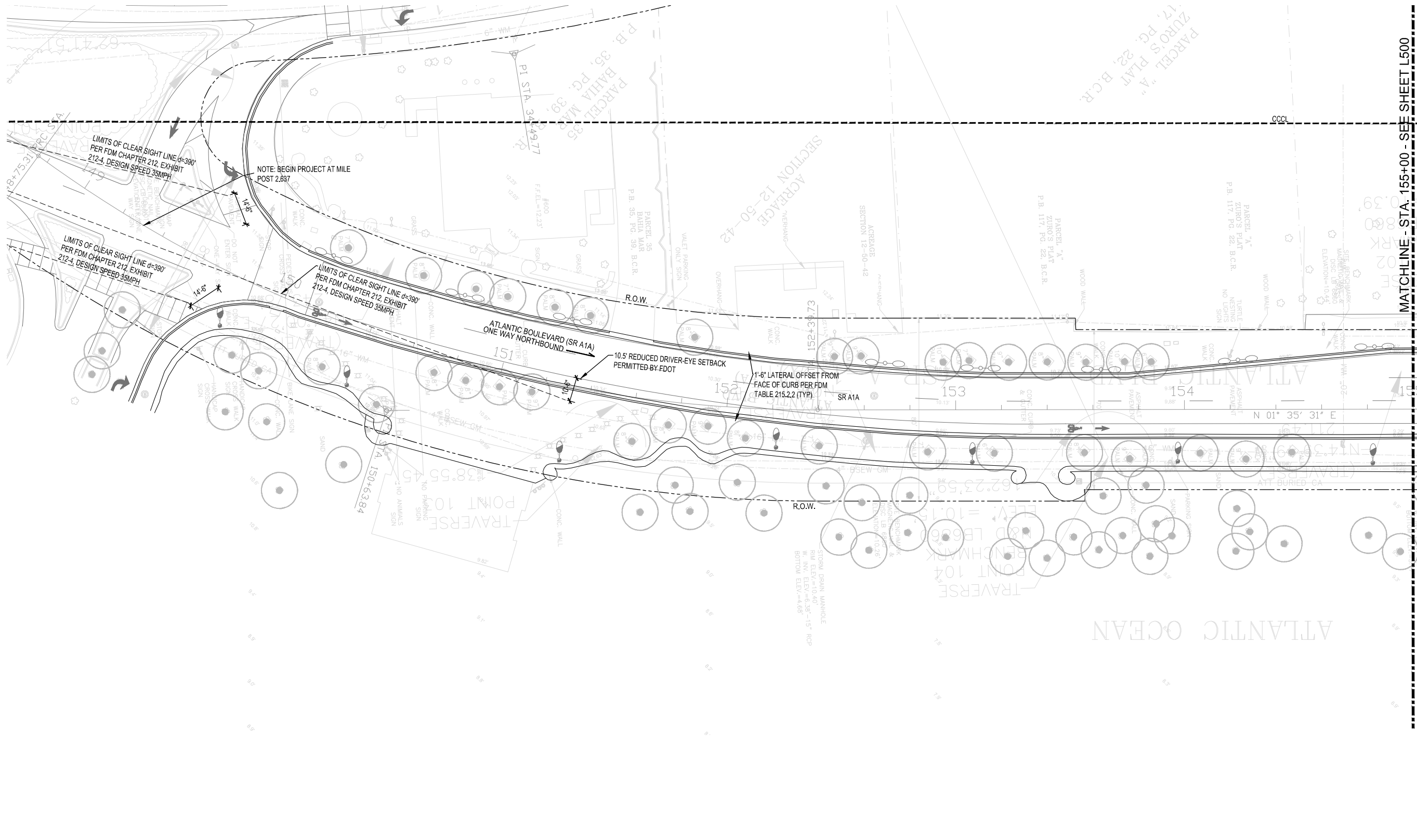
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**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
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 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

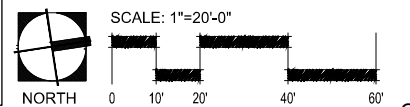
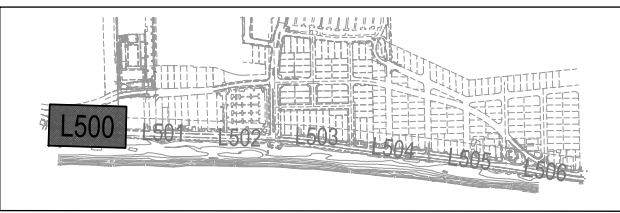
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**PROJECT # 11681**  
**A1A STREETSCAPE IMPROVEMENTS**  
**FORT LAUDERDALE, FL**  
 FDOT LANDSCAPE PERMIT # 2019-L-491-0003  
**LANDSCAPE PLAN**

SHEET NO.	1 OF 00
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TREE SCHEDULE							
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	REMARKS
	COC MAY	See Plan	Cocos nucifera 'Maypan'	Mypan Coconut Palm	FG	16'-18' C.T.	Straight, Heavy. Contractor to ensure selected palms fit within precast tree grate. Green Malayan to be alternate.
	PHX	See Plan	Phoenix dactylifera 'Medjool'	Date Palm	FG	16' C.T.	Diamond Cut

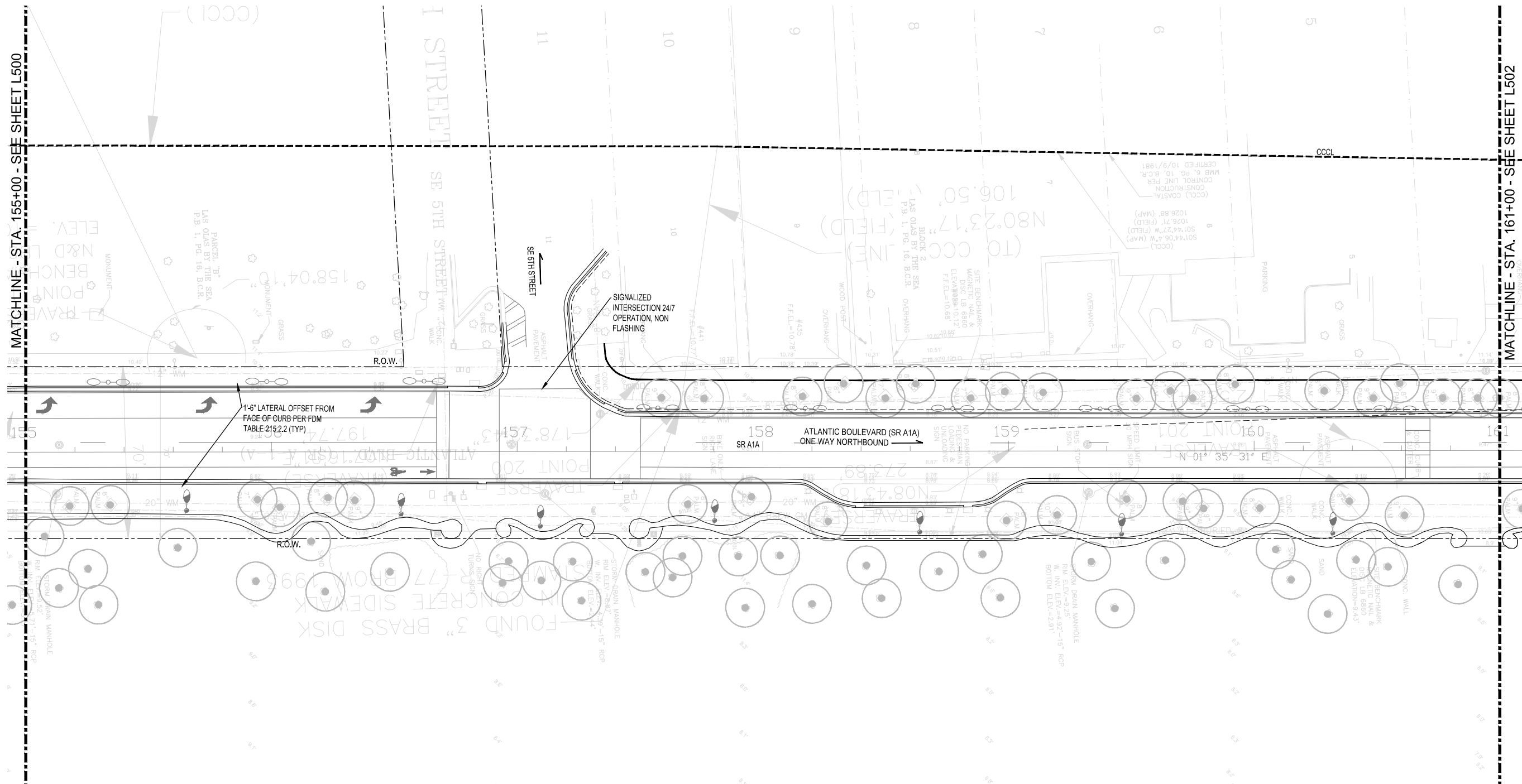


MATCHLINE - STA. 155+00 - SEE SHEET L500

100% CONSTRUCTION DRAWINGS

**Kimley-Horn**  
 1800 S CONGRESS AVE, SUITE 100  
 FORT LAUDERDALE, FL 33301  
 PHONE: 561-330-2345 FAX: 561-330-2245  
 WWW.KIMLEY-HORN.COM CA 00000696

**EDSA, Inc.**  
 1512 E. Broward Blvd. Suite 110  
 Fort Lauderdale, FL 33301  
 954-524-3330



MATCHLINE - STA. 155+00 - SEE SHEET L500

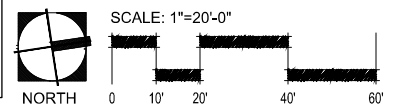
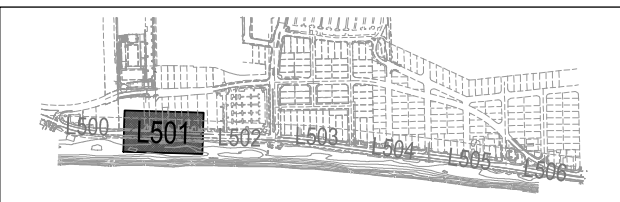
MATCHLINE - STA. 161+00 - SEE SHEET L502

1'-6" LATERAL OFFSET FROM FACE OF CURB PER FDM TABLE 215.2.2 (TYP)

SIGNALIZED INTERSECTION 24/7 OPERATION, NON FLASHING

ATLANTIC BOULEVARD (SR A1A) ONE WAY NORTHBOUND

TREE SCHEDULE							
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	REMARKS
	COC MAY	See Plan	Cocos nucifera 'Maypan'	Mypan Coconut Palm	FG	16'-18' C.T.	Straight, Heavy. Contractor to ensure selected palms fit within precast tree grate. Green Malayan to be alternate.
	PHX	See Plan	Phoenix dactylifera 'Medjool'	Date Palm	FG	16' C.T.	Diamond Cut



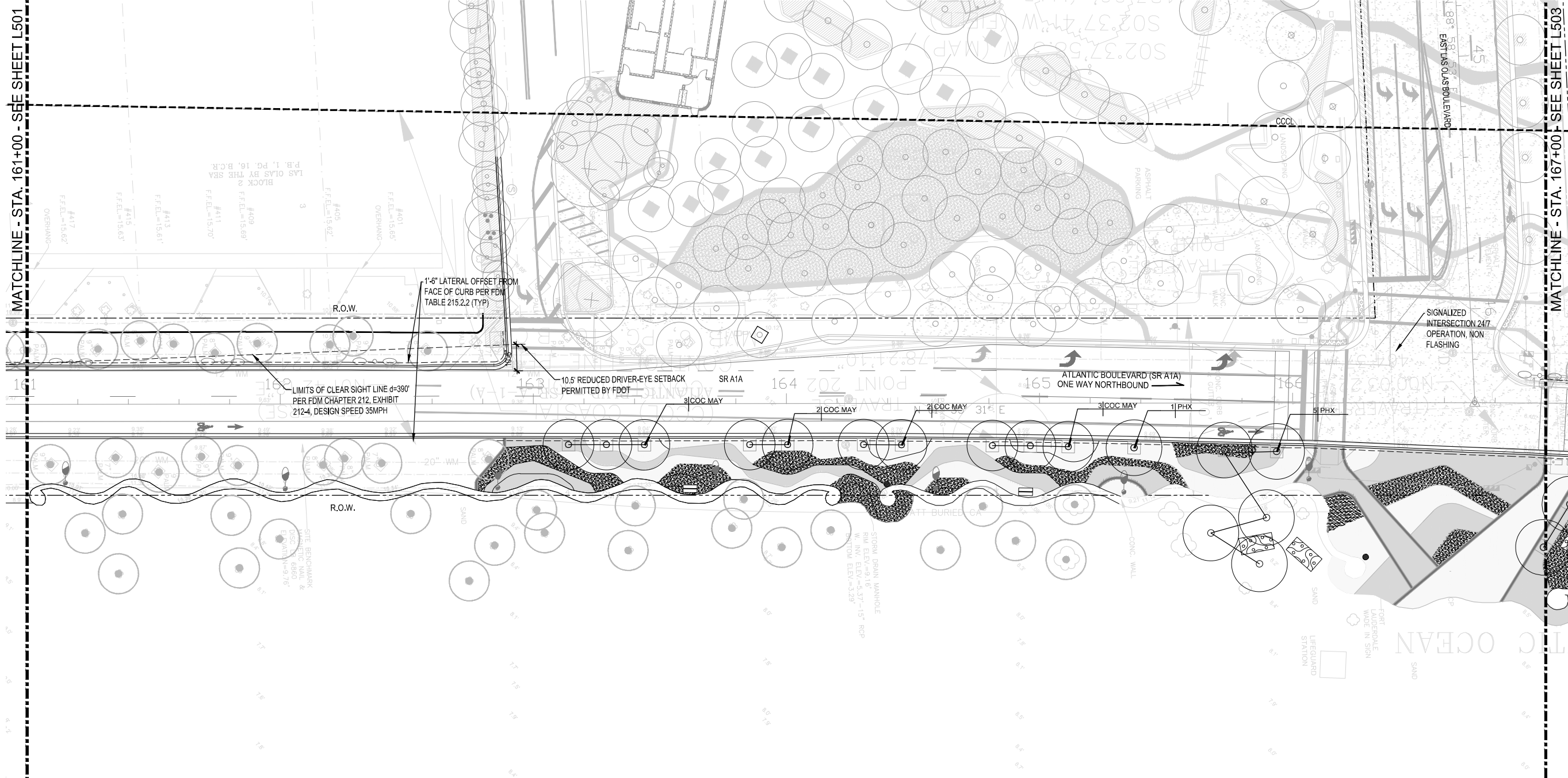
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NO.	DATE	DESCRIPTION

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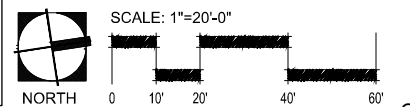
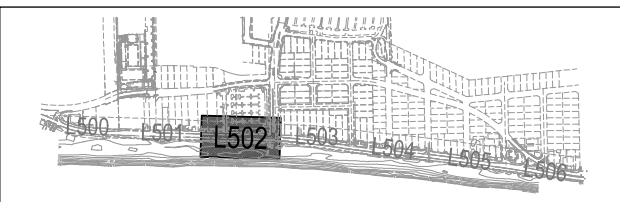
PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-L-491-0003  
 LANDSCAPE PLAN

SHEET NO.  
**L501** 1 OF 00





TREE SCHEDULE							
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	REMARKS
	COC MAY	See Plan	Cocos nucifera 'Maypan'	Mypan Coconut Palm	FG	16'-18' C.T.	Straight, Heavy. Contractor to ensure selected palms fit within precast tree grate. Green Malayan to be alternate.
	PHX	See Plan	Phoenix dactylifera 'Medjool'	Date Palm	FG	16' C.T.	Diamond Cut



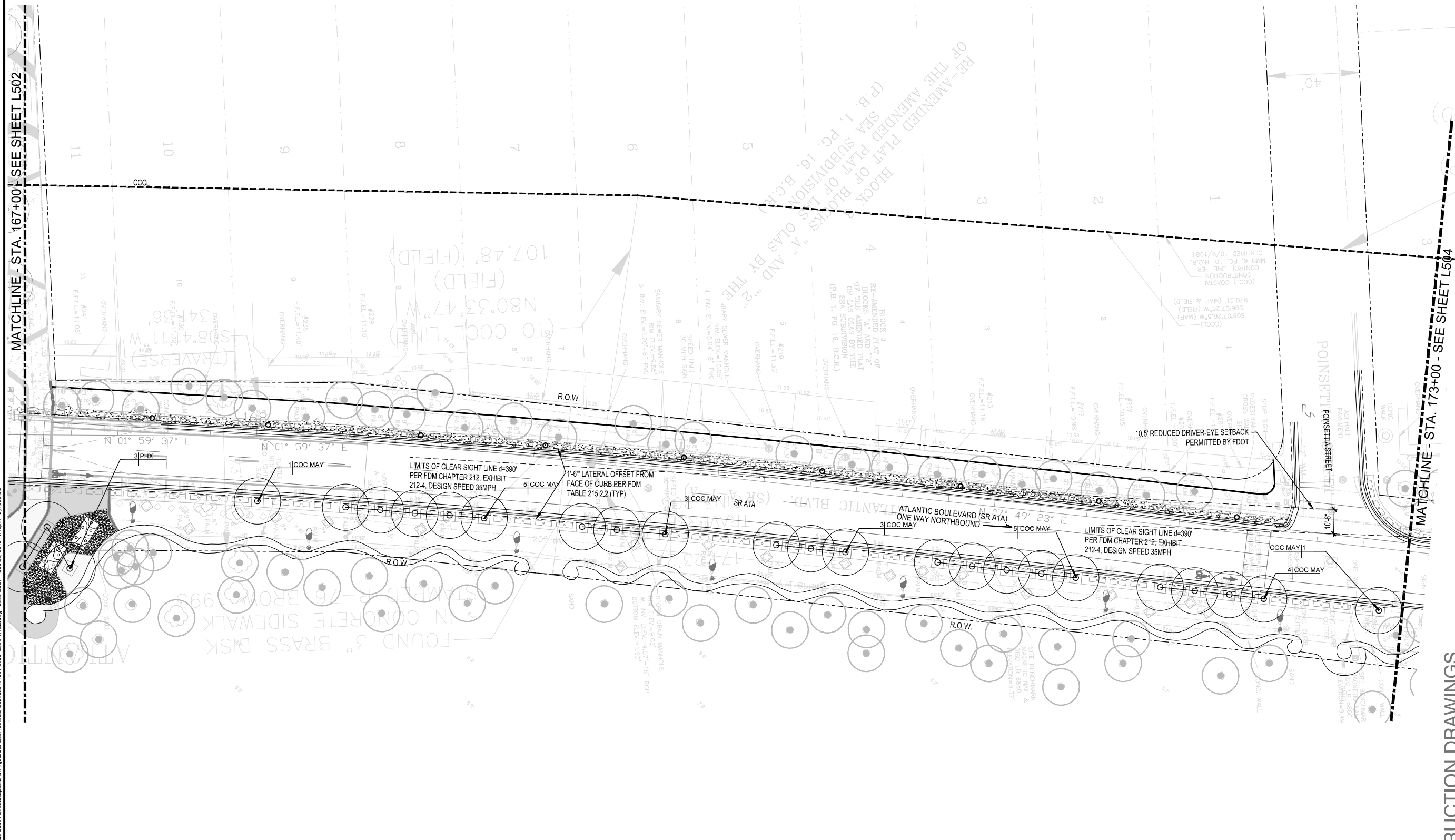
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PUBLIC WORKS DEPARTMENT  
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

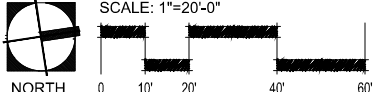
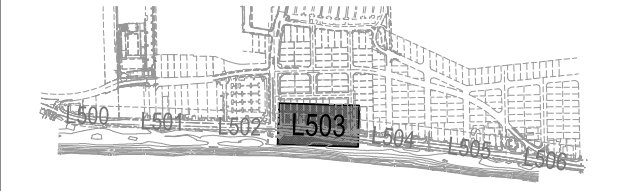
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**100% CONSTRUCTION DRAWINGS**  
PROJECT # 11681  
A1A STREETScape IMPROVEMENTS  
FORT LAUDERDALE, FL  
FDOT LANDSCAPE PERMIT # 2019-L-491-0003  
LANDSCAPE PLAN

SHEET NO. **L502** OF 00  
DRAWING FILE: L506-TREE.dwg  
DATE: 8/27/2019 1:57 PM



TREE SCHEDULE							
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	REMARKS
	COC MAY	See Plan	Cocos nucifera 'Maypan'	Mypan Coconut Palm	FG	16'-18' C.T.	Straight, Heavy. Contractor to ensure selected palms fit within precast tree grate. Green Malayan to be alternate.
	PHX	See Plan	Phoenix dactylifera 'Medjool'	Date Palm	FG	16' C.T.	Diamond Cut



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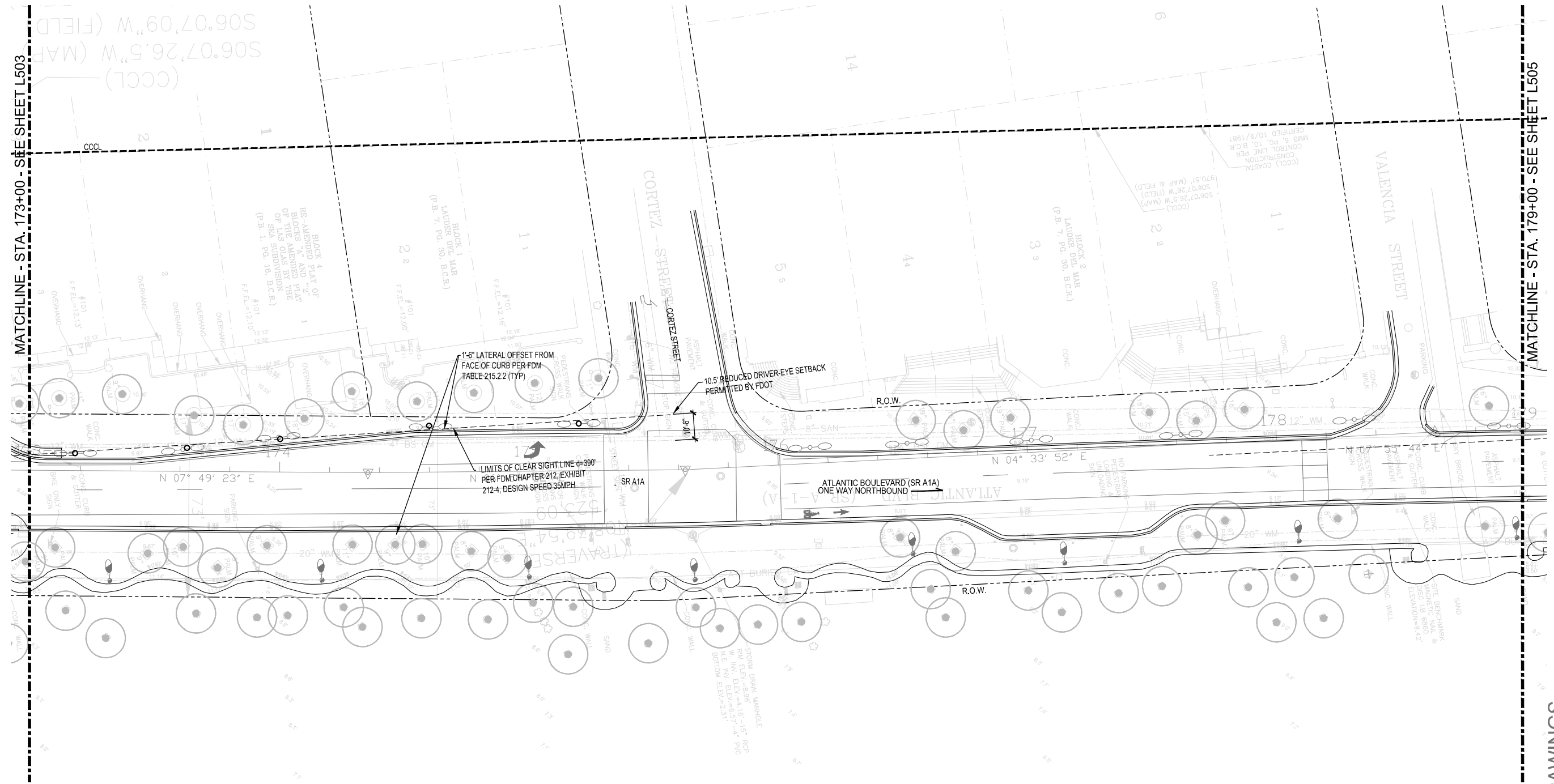
**CITY OF FORT LAUDERDALE**  
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REVISIONS	
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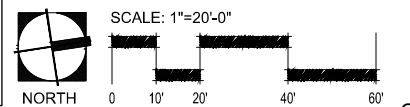
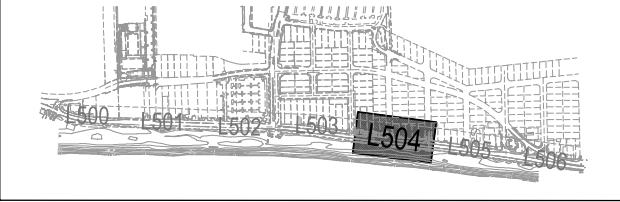
PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-L-491-0003  
 LANDSCAPE PLAN

SHEET NO.  
**L503**  
 1 OF 00





TREE SCHEDULE							
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	REMARKS
	COC MAY	See Plan	Cocos nucifera 'Maypan'	Mypan Coconut Palm	FG	16'-18' C.T.	Straight, Heavy. Contractor to ensure selected palms fit within precast tree grate. Green Malayan to be alternate.
	PHX	See Plan	Phoenix dactylifera 'Medjool'	Date Palm	FG	16' C.T.	Diamond Cut



DATE:	08/27/2019
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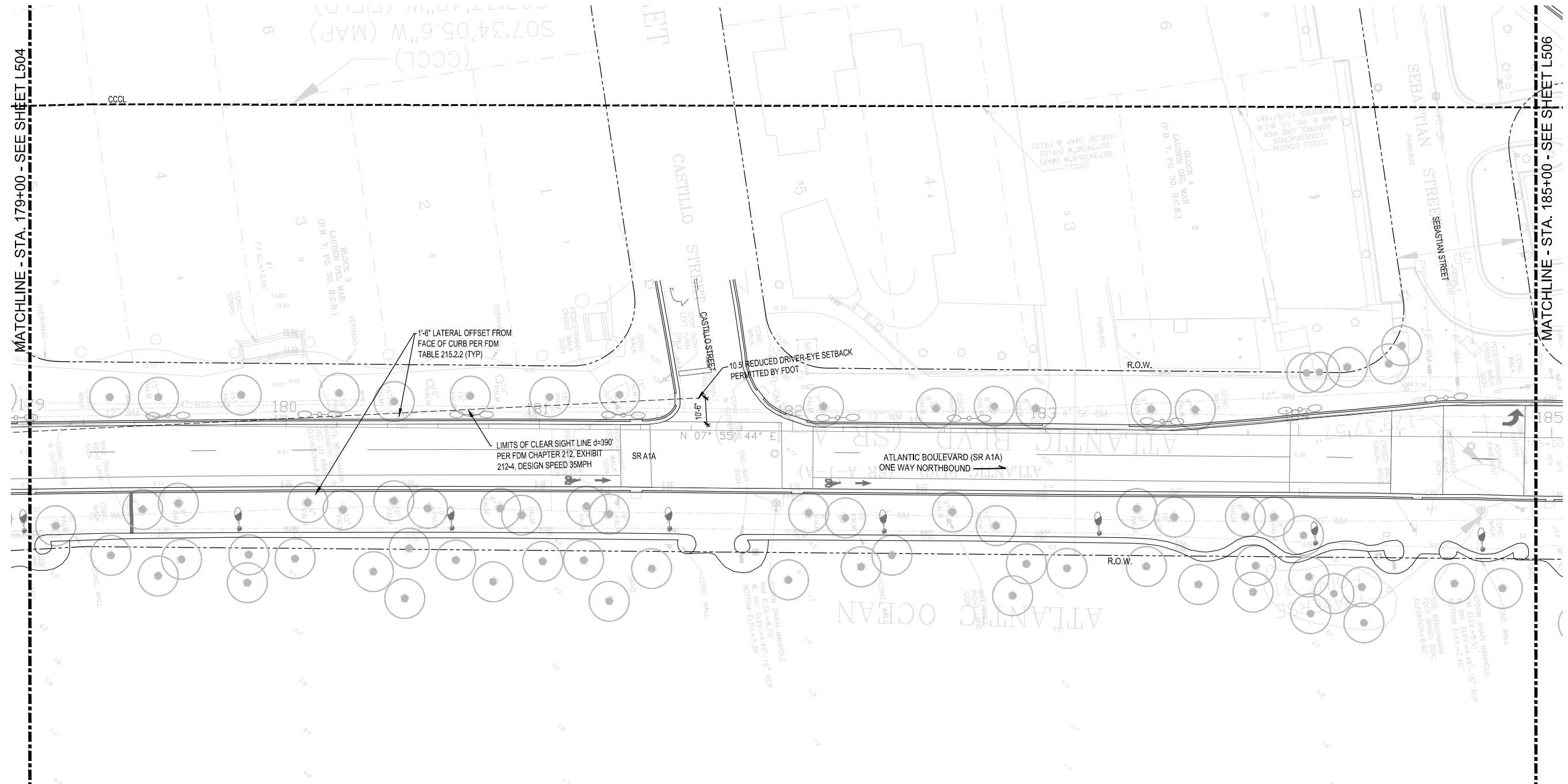
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 PUBLIC WORKS DEPARTMENT  
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REVISIONS	
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**100% CONSTRUCTION DRAWINGS**

PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-L-491-0003  
 LANDSCAPE PLAN

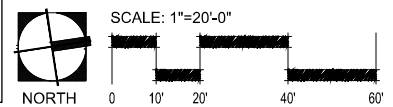
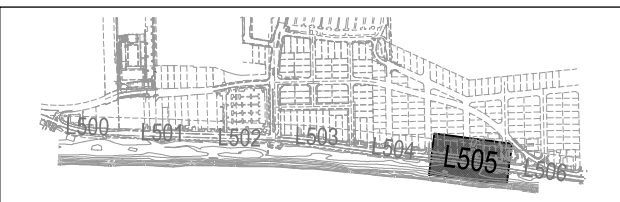
SHEET NO.  
**L504**  
 1 OF 00



MATCHLINE - STA. 179+00 - SEE SHEET L504

MATCHLINE - STA. 185+00 - SEE SHEET L506

TREE SCHEDULE							
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	REMARKS
	COC MAY	See Plan	Cocos nucifera 'Maypan'	Mypan Coconut Palm	FG	16'-18' C.T.	Straight, Heavy. Contractor to ensure selected palms fit within precast tree grate. Green Malayan to be alternate.
	PHX	See Plan	Phoenix dactylifera 'Medjool'	Date Palm	FG	16' C.T.	Diamond Cut



DATE:	08/27/2019
DESIGNED BY:	EDSA
CHECKED BY:	EDSA
SCALE:	AS SHOWN
FIELD BOOK:	

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

**100% CONSTRUCTION DRAWINGS**

PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-L-491-0003  
 LANDSCAPE PLAN

SHEET NO.  
**L505**  
 1 OF 00



**Kimley-Horn**  
 1890 S CONGRESS AVE, SUITE 100  
 FORT LAUDERDALE, FL 33301  
 PHONE: 561-330-2345 FAX: 561-330-2245  
 WWW.KIMLEY-HORN.COM CA 00000996

**EDSA, Inc.**  
 1512 E. Broward Blvd. Suite 110  
 Fort Lauderdale, FL 33301  
 954-524-3330

SEAL

DATE:	08/27/2019
SCALE:	AS SHOWN
DESIGNED BY:	EDSA
CHECKED BY:	EDSA
FIELD BOOK:	

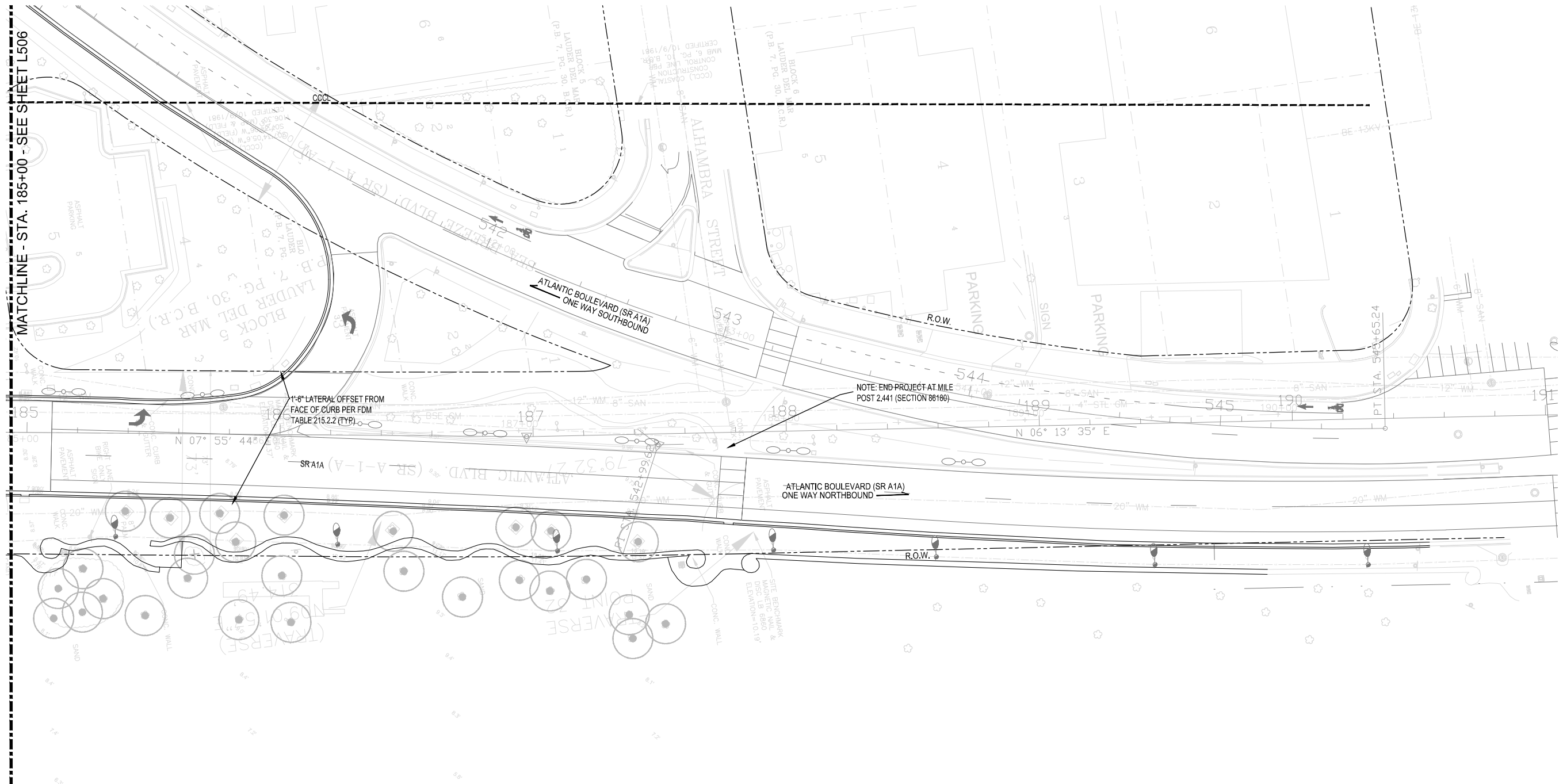
**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
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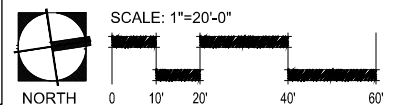
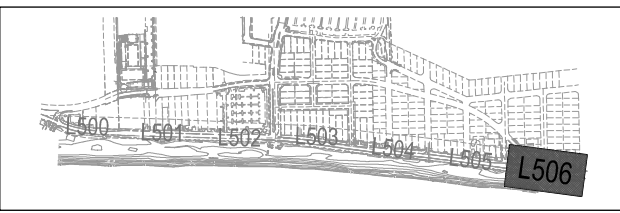
**100% CONSTRUCTION DRAWINGS**

PROJECT # 11681  
 A1A STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
 FDOT LANDSCAPE PERMIT # 2019-491-00003  
 LANDSCAPE PLAN

SHEET NO. **L506** 1 OF 00



PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	REMARKS
	COC MAY	See Plan	Cocos nucifera 'Maypan'	Mypan Coconut Palm	FG	16'-18' C.T.	Straight, Heavy. Contractor to ensure selected palms fit within precast tree grate. Green Malayan to be alternate.
	PHX	See Plan	Phoenix dactylifera 'Medjool'	Date Palm	FG	16' C.T.	Diamond Cut



FDOT PERMIT NUMBER: 2019-L-491-00003

PLANTING NOTES:

- 1. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK. LANDSCAPE CONTRACTOR SHALL PROVIDE SCHEDULE OF HIS/HER WORKS AT A MINIMUM OF TWO WEEKS IN ADVANCE, BEGINNING TWO WEEKS PRIOR TO COMMENCING LANDSCAPE TRADE CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE EXISTING GROUND COVER FOR ALL PLANTING BEDS AS SPECIFIED PRIOR TO PLANTING MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL PORTIONS OF EXISTING LANDSCAPE AND HARDSCAPE AREAS DAMAGED TO THE SATISFACTION OF THE OWNER, IT'S REPRESENTATIVE, OR LANDSCAPE ARCHITECT.
3. THE LOCATIONS OF PLANTS, AS SHOWN IN THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS TO COMPLY WITH SAFETY CRITERIA, TO AVOID CREATING UNSAFE SIGHT CONDITIONS, OR AS OTHERWISE DIRECTED BY OR APPROVED BY THE LANDSCAPE ARCHITECT.
4. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL PLANT MATERIALS, INCLUDING TEMPORARY IRRIGATION AND FERTILIZATION IF NECESSARY DURING CONSTRUCTION AND/OR WHILE BEING HELD IN LANDSCAPE HOLDING AREAS.
5. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS. PRIOR TO COMMENCEMENT OF THE LANDSCAPE PLANTING WORK THE CONTRACTOR SHALL PROVIDE COMPLETE SOIL TESTS INCLUDING CONTENT ANALYSIS WITH RECOMMENDATIONS FOR THE INSTALLATION AREA.
6. ALL PLANT MATERIAL THAT MAY NEED TO BE REPLACED SHALL BE IN FULL AND STRICT ACCORDANCE TO FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS", PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL REPLACEMENT MATERIAL SHALL MATCH THE SIZE AND QUALITY OF THE MATERIAL BEING REPLACED.
7. LANDSCAPE CONTRACTOR SHALL FIELD STAKE THE LOCATION OF TREES AND ALL SHRUB BEDS PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR TO NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 5 DAYS PRIOR TO REQUESTED REVIEW OF STAKED MATERIALS. EXCAVATION SHALL NOT BEGIN UNTIL LOCATIONS OF INDIVIDUAL PLANT AND PLANT BEDS ARE ACCEPTABLE TO THE LANDSCAPE ARCHITECT.
8. LANDSCAPE CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY DUE TO EXISTING SITE CONDITIONS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT.
9. ANY SUBSTITUTIONS IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO MODIFICATION OF THE CONTRACT, PURCHASING AND DELIVERY OF PLANTS. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT BEFORE PLANTING CAN BEGIN. ALL PLANT MATERIALS WILL NOT INCLUDE ANY PLANTS CONSIDERED TO BE INVASIVE. CONTRACTOR PROVIDE SOURCE LIST OF PLANT MATERIAL.
10. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, GENERAL NOTES AND /OR SPECIFICATIONS FOR FURTHER AND COMPLETE LANDSCAPE PLANTING INSTRUCTIONS.
11. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH PERMANENT OR TEMPORARY IRRIGATION WORK. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION UNTIL FINAL ACCEPTANCE OF THE PROJECT.
12. LANDSCAPE CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED OFF-SITE DAILY. ALL MATERIALS, PRODUCTS AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY THE OWNER, IT'S REPRESENTATIVE, OR LANDSCAPE ARCHITECT.
13. GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES ETC., TO PENETRATE OUTER SURFACE OF TREE OR PALM. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
14. BURLAP MATERIAL, WIRE CAGES, PLASTIC STRAPS, ETC., MUST BE CUT AND REMOVED FROM TOP ONE - THIRD (1/3) OF ROOT BALL.
15. TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL ARE NOT ALLOWED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GUARANTEE OF ALL PLANT MATERIAL FOR A PERIOD OF TWELVE (12) MONTHS FROM THE CONCLUSION OF THE 1 YEAR MAINTENANCE PERIOD. THE MAINTENANCE PERIOD STARTS AT SUBSTANTIAL COMPLETION OF THE ENTIRE JOB.
17. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED BY INSTALLING PROTECTIVE BARRIERS AROUND THE DRIP LINE OF TREES. THE PROTECTIVE BARRIERS SHALL BE SEEN EASILY BY OPERATORS OF TRUCKS AND OTHER EQUIPMENT. PROTECTIVE BARRIERS SHALL BE CONSTRUCTED AS DETAILED ON THE DRAWINGS AND SHALL BE INSTALLED PRIOR TO AND MAINTAINED THROUGHOUT CONSTRUCTION AND/OR LAND DEVELOPMENT:
a. DO NOT STORE OR USE MATERIALS OR EQUIPMENT WITHIN THE DRIP LINE OF ANY TREE TO BE RELOCATED ON SITE UNLESS THE ACTIVITY IS BEING DONE TO PROTECT TREES.
b. DO NOT DISCHARGE OR CONTAMINATE THE SOIL WITHIN THE DRIP LINE OF ANY TREE TO BE RELOCATED ON SITE WITH ANY CONSTRUCTION MATERIALS SUCH AS PAINT, OIL, SOLVENTS, PETROLEUM PRODUCTS, ASPHALT, CONCRETE, MORTAR, OR OTHER MATERIALS THAT MAY CAUSE ADVERSE IMPACTS.
c. CLEARING OF VEGETATION WITHIN THE DRIP LINE OF TREES DESIGNATED FOR PRESERVATION SHALL ONLY BE BY HAND OR LIGHT RUBBER WHEELED EQUIPMENT THAT WILL NOT DAMAGE TREE ROOTS.
d. MAKE NO ATTACHMENTS, OTHER THAN THOSE OF A PROTECTIVE AND NON-DAMAGING NATURE, TO ANY TREE TO BE RETAINED ON THE SITE. DO NOT CHANGE THE NATURAL GRADE ABOVE THE ROOT SYSTEM WITHIN THE DRIP LINE OF ANY TREE TO BE RETAINED ON SITE UNLESS IT CAN BE DEMONSTRATED TO THE CITY THAT IT WILL NOT DAMAGE THE TREE.
e. AVOID ANY ENCROACHMENTS, EXCAVATIONS OR SEVERE GRADE CHANGES WITHIN THE DRIP LINE OF PRESERVED TREES THAT WILL IMPACT ANY TREE SCHEDULE TO REMAIN.
18. PLANT SIZE SPECIFICATIONS TAKE PRECEDENCE OVER CONTAINER SIZE.
19. CONTRACTOR TO VERIFY QUANTITIES AND REPORT ANY DISCREPANCIES TO THE OWNER, IT'S REPRESENTATIVE, OR LANDSCAPE ARCHITECT.
20. ALL GROUND COVER SHALL HAVE A MINIMUM 50% COVERAGE AT INSTALLATION AND 100% COVERAGE IN 6 MONTHS.
21. EXCAVATE ALL PLANTING ISLANDS TO A MINIMUM OF 12" AND BACKFILL WITH SPECIFIED PLANTING MIX.
22. ALL ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK".
23. ALL PLANT MATERIAL SHALL BE PROTECTED DURING TRANSPORT AND DELIVERY TO FINAL LOCATION WITH SHADE CLOTH OR OTHER ACCEPTABLE MEANS OF WINDBURN PREVENTION. ALL PLANT MATERIAL TO BE PLANTED ON THE SAME DAY IT ARRIVES ON SITE.
24. ALL PLANT MATERIAL SHALL BE INSTALLED IN A SOUND, WORKMAN-LIKE MANNER AND ACCORDING TO ACCEPTED GOOD PLANTING AND TREE RELOCATION PROCEDURES WITH THE QUALITY OF PLANT MATERIALS AS HEREINAFTER DESCRIBED. ALL ELEMENTS OF LANDSCAPING SHALL BE INSTALLED SO AS TO MEET ALL APPLICABLE ORDINANCES AND CODE REQUIREMENTS.
25. THERE SHALL BE NO CHAINS OR CABLES USED ON TREES OR PALMS. HANDLE WITH TWO INCH (2") MINIMUM WIDTH NYLON STRAPS OR EQUAL.
26. CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN TWO (2) WEEKS OF WRITTEN NOTICE AND GUARANTEE FOR TWELVE (12) MONTHS FROM DATE OF INSTALLATION.
27. CONTRACTOR SHALL MULCH ALL PLANT MATERIAL THROUGHOUT AND COMPLETELY TO A THREE INCH (3") DEPTH OF LOOSE, WEED FREE STERILIZED MELALEUCA MULCH.
28. CONTRACTOR TO REQUEST INSPECTION OF PROJECT IN WRITING. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE OWNER, ITS REPRESENTATIVE, AND LANDSCAPE ARCHITECT SHALL DECLARE THE PROJECT SUBSTANTIALLY COMPLETE.
29. ALL PLANT MATERIAL IS TO BE TAGGED AT THE NURSERY BY CONTRACTOR. THE LANDSCAPE ARCHITECT MAY BE PRESENT DURING SELECTION AND TAGGING ACTIVITIES WITH NOTIFICATION AT LEAST 2 WEEKS IN ADVANCE.
30. PROTECT PLANTS DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALL OR DESICCATION OF LEAVES AND FRONDS.
31. NOTIFY THE LANDSCAPE ARCHITECT OF DELIVERY SCHEDULE IN ADVANCE SO PLANT MATERIAL MAY BE INSPECTED UPON ARRIVAL AT JOB SITE.
32. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM JOB SITE.
33. DELIVER FERTILIZER TO SITE IN ORIGINAL UNOPENED CONTAINERS BEARING MANUFACTURER'S GUARANTEED CHEMICAL ANALYSIS, NAME, TRADE NAME, TRADEMARK, AND CONFORMANCE TO FLORIDA STATE LAW.
34. PROTECT ROOTS OF PLANT MATERIAL FROM DRYING OR OTHER POSSIBLE INJURY. KEEP PLANT BALL MOIST AT ALL TIMES.
35. REPAIR DAMAGE TO OTHER PLANTS OR CONSTRUCTION WORK DURING PLANT PLACEMENT AND/OR REPLACEMENT INCLUDING, BUT NOT LIMITED TO, DAMAGE TO EXISTING TREES, WALKS, STRUCTURES, SITE FURNISHINGS, ETC.
36. NURSERY GROWN STOCK SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
37. TEST FILL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE AND PERCOLATION IS AVAILABLE. PITS THAT ARE FOUND TO NOT BE ADEQUATELY DRAINING SHALL BE EXCAVATED TO A DEPTH SUFFICIENT FOR DRAINAGE AND BACKFILLING WITH COARSE SAND, AND 6 INCHES OF PLANTING SOIL ADDED BELOW THE ROOT BALL AND COMPACTED BY FLOODING PRIOR TO PLANTING. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. REPLACE WITH SAME SPECIES SIZE AND SPECIFICATION.
38. PLANTING
A. GENERAL
1. IRRIGATION SHALL BE 100% OPERATIONAL PRIOR TO PLANT MATERIAL INSTALLATION, IF APPLICABLE.
2. THE LANDSCAPE ARCHITECT SHALL RESERVE THE RIGHT TO REJECT ANY AND ALL PLANT MATERIAL NOT MEETING SPECIFICATIONS AT THE JOB SITE
3. REMOVE BURLAP FROM TOP 1/2 OF ROOT BALL.
4. CENTER PLANT IN PIT OR TRENCH.
5. FACE FOR BEST EFFECT, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
6. SET PLANT PLUMB AND HOLD RIGIDLY IN POSITION UNTIL SOIL HAS BEEN TAMPED FIRMLY AROUND PLANTING BALL.
7. USE ONLY PLANTING SOIL BACKFILL AS SPECIFIED ON THIS SHEET
- SOIL PREPARATION AND MIXES.
8. PLACE SUFFICIENT PLANTING SOIL UNDER PLANT TO BRING TOP OF PLANTING BALL TO FINISH GRADE.
9. BACKFILL PIT OR TRENCH WITH PLANTING SOIL IN 9-INCH LAYERS AND WATER EACH LAYER THOROUGHLY TO SETTLE SOIL AND WORK SOIL COMPLETELY AROUND ROOTS AND PLANTING BALL.
10. AFTER SOIL SETTLES FILL PIT WITH PLANTING SOIL, WATER, AND LEAVE PIT SURFACE EVEN WITH FINISH GRADE.
11. TOPSOIL BERM:
a. CONSTRUCT A TOPSOIL BERM 6-INCHES ABOVE FINISH GRADE FORMING A WATERING BASIN WITH A LEVEL BOTTOM AROUND EACH PALM OR TREE.
b. THE TOPSOIL BERM SHALL FORM A WATERING BASIN 1 FOOT GREATER THAN DIAMETER OF PLANTING BALL.
c. COMPLETELY MULCH WATERING BASIN AND BERM TO AVOID ANY EXPOSED DIRT.
12. BRACES SHALL BE INSTALLED, AS SPECIFIED HEREIN, WHILE THE TREE IS SUPPORTED BY MACHINERY.
B. BALLED AND BURLAPPED PLANTS (B & B):
1. PLACE IN PIT ON PLANTING SOIL BACKFILL MATERIAL THAT HAS BEEN HAND-TAMPED PRIOR TO PLACING PLANT.
2. PLACE WITH BURLAP INTACT SO LOCATION OF GROUND LINE AT TOP OF BALL IS SAME AS AT NURSERY WHERE GROWN.
3. REMOVE BINDING AT TOP HALF OF THE PLANTING BALL AND CUT OFF EXPOSED BURLAP.
4. DO NOT PULL WRAPPING FROM UNDER PLANTING BALL.
5. DO NOT PLANT IF PLANTING BALL IS CRACKED, BROKEN, OR SHOWING EVIDENCE OF VOIDS BEFORE OR DURING PLANTING PROCESS. REPLACE WITH PLANT OF SAME SPECIES, SIZE, AND SPECIFICATION.
CERTIFICATION THAT CONTENT OF SOIL CONDITIONERS MEET SPECIFIED REQUIREMENTS
2. LITERATURE AND PROPOSED APPLICATION RATES OF SOIL AMENDMENTS
3. LITERATURE AND PROPOSED APPLICATION RATES FOR ALL HERBICIDES AND STERILIZERS
15. MECHANICAL ANALYSIS FOR WELL-GRADED TOPSOIL SHALL BE AS FOLLOWS:
SIEVE SIZE PERCENTAGE PASSING BY DRY WEIGHT
1/4 IN. 90-92%
NO. 10 50-55%
NO. 40 20-25%
NO. 100 4-6%
NO. 200 0-1%
16. CONTRACTOR SHALL REMOVE ALL STAKING OF PALMS AFTER TWELVE (12) MONTHS OF SUBSTANTIAL COMPLETION.
17. SOIL AMENDMENTS:
A. FERTILIZER
1. ALL FERTILIZERS SHALL BE MANUFACTURED FROM QUALITY MATERIALS, BE FREE FROM IMPURITIES, UNIFORM IN COMPOSITION, MEET RECOGNIZED STANDARDS FOR EFFECTIVENESS, AND BE FREE FLOWING AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT.
2. ALL FERTILIZER SHALL BE DELIVERED TO THE SITE IN BAGS OR OTHER CONVENIENT CONTAINERS, EACH FULLY LABELED, CONFORMING TO THE APPLICABLE STATE FERTILIZER LAWS, AND BEARING THE GRADE AND THE TRADE NAME OF THE PRODUCER.
3. DIE HARD ROOT REVIVER - ENDO AND ECTOMYCORRIZAL INOCULANT, AS MANUFACTURED BY DIE HARD, 1-(800)628.6373 OR APPROVED EQUAL.
4. DIE HARD TRANSPLANT - ONE STEP - ENDO AND ECTOMYCORRIZAL INOCULANT, AS MANUFACTURED BY DIE HARD, 1-(800)628.6373 OR APPROVED EQUAL.
5. DIE HARD PALM TRANSPLANT - ENDO MYCORRIZAL INOCULANT, AS MANUFACTURED BY DIE HARD, 1-(800) 628.6373 OR APPROVED EQUAL.
6. TIME RELEASE, PALM MIX FERTILIZER WITH MINOR ELEMENTS OR APPROVED EQUAL.
7. TIME RELEASE, TREE AND SHRUB MIX FERTILIZER, 6-6-6, WITH MINOR ELEMENTS OR APPROVED EQUAL.
8. AGRIFORM PLANTING TABLETS, 8-8-8 PLUS MINORS, AS MANUFACTURED BY GRACE SIERRA, 1-(408) 263.8080 OR APPROVED EQUAL.
9. WETTING AGENT TO BE TERRA SORB OR APPROVED EQUAL.
10. SOIL CONDITIONER TO BE "SUPER LESCO WET", AS MANUFACTURED BY LESCO, INC. OR APPROVED EQUAL.
B. WATER: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY CLEAN AND POTABLE WATER TO THE SITE FOR USE IN WATERING.
C. SAND: E.R. JAHNA SAND OR EQUAL BEACH COMPATIBLE SAND, FREE DRAINING AND FREE OF SUBSTANCES HARMFUL TO GROWTH OF PLANTS.
D. PEAT: FLORIDA PEAT FROM APPROVED SOURCE.
E. COMPOST: FROM APPROVED SOURCE.
GENERAL NOTES:
1. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE CONDITIONS PRIOR TO INITIATING CONSTRUCTION. ALL EXISTING STRUCTURES, PAVING, LANDSCAPE AND OTHER ELEMENTS TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.
2. DEMOLITION AND CONSTRUCTION ACTIVITIES, INCLUDING THE STAGING AND STORAGE OF EQUIPMENT, LANDSCAPE AND CONSTRUCTION MATERIALS, ARE TO BE CONFINED TO THE WORK AREA IDENTIFIED BY THE LIMITS OF CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY AND ALL NECESSARY PERMITS REQUIRED FOR DEMOLITION PRIOR TO THE BEGINNING OF WORK.
4. CONTRACTOR IS RESPONSIBLE TO CONTACT THE OWNER AND/OR THE LANDSCAPE ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND INFORMATION PROVIDED IN THESE DRAWINGS.
5. CONTRACTOR SHALL ENSURE APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
6. CONTRACTOR TO PROVIDE LANDSCAPE, IRRIGATION, AND HARDSCAPE MAINTENANCE OF THE ENTIRE PROJECT THROUGH THE WARRANTY PERIOD OF THE FINAL PHASE.
GENERAL FDOT NOTES:
1. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY LANDSCAPE INSTALLATION SHALL COMPLY WITH CURRENT APPLICABLE FDOT MAINTENANCE SPECIFICATION 580.
2. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY REFER TO THE FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION.
3. CYPRESS MULCH IS NOT PERMITTED ON THE FDOT RIGHT OF WAY. MULCH PERMITTED TO BE USED ARE HARDWOOD MULCH (CONTAINING NO CYPRESS PRODUCTS), RECYCLED MULCH OR APPROVED EQUAL, CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC). SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT OPERATIONS PERMIT LANDSCAPE INSPECTOR UPON INSPECTION.
4. ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WEATHER REQUESTED BY THE CONTRACTOR, OWNERS, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT OPERATIONS MANAGER.
SUBMITTALS:
A. TEST REPORTS
1. RESULTS OF TOPSOIL ANALYSIS
2. RESULTS OF WATER ANALYSIS
3. RESULTS OF PLANTING SOIL MIX ANALYSIS, INCLUDING CONTENT ANALYSIS
B. CERTIFICATES
1. MANUFACTURERS CERTIFICATION AND/OR TESTING LABORATORY

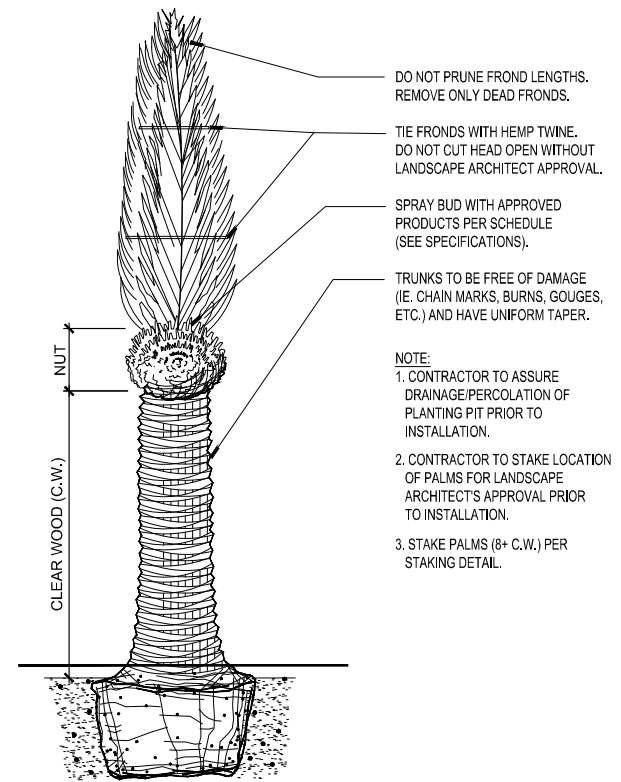
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Kimley-Horn
1890 S CONGRESS AVE, SUITE 100,
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PHONE: 561-330-2344 FAX: 561-330-2245
WWW.KIMLEY-HORN.COM CA 00000996
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954-524-3330
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

Table with 2 columns: NO, DATE, BY, CHK'D, DESCRIPTION

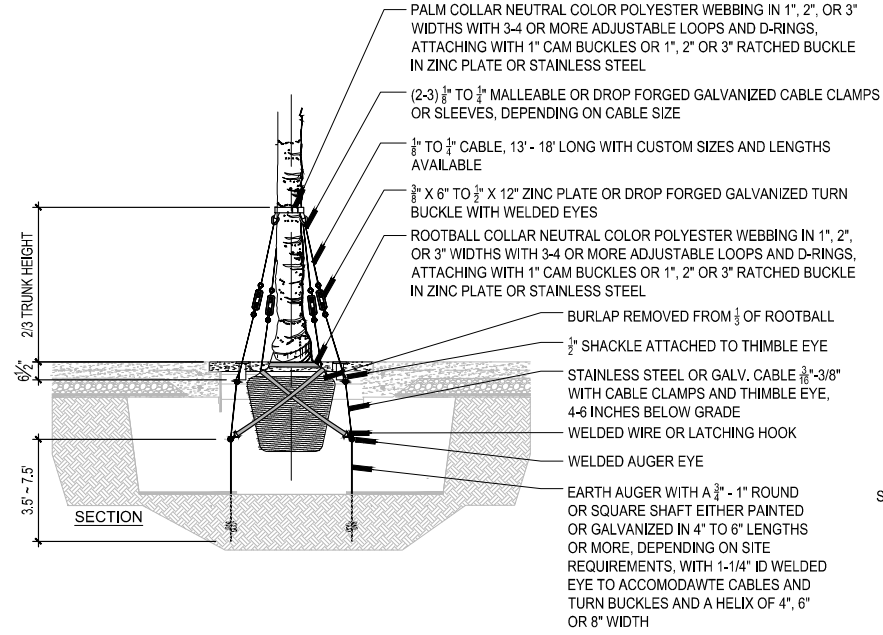
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A1A STREETSCAPE IMPROVEMENTS
FORT LAUDERDALE, FL
FDOT LANDSCAPE PERMIT # 2019-L-491-00003
LANDSCAPE NOTES

SHEET NO.
L507
1 OF 00





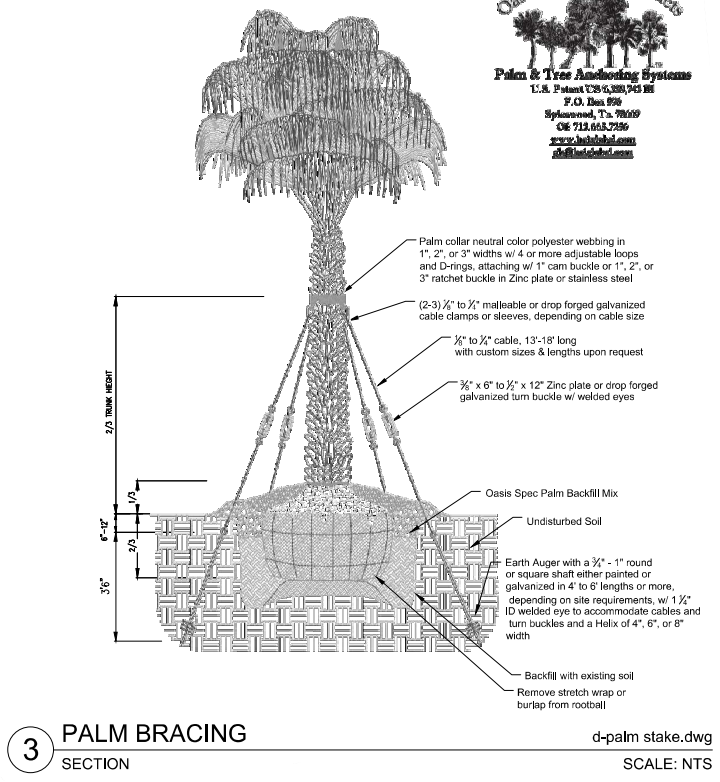
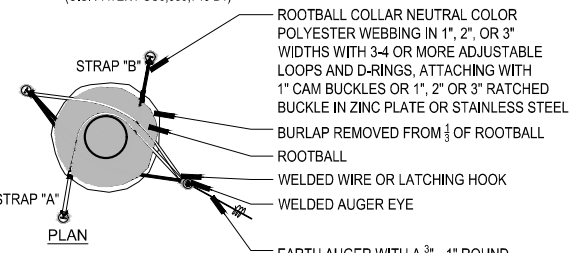
**1 DATE PALM IN LANDSCAPE** SECTION  
SCALE: 1/2"=1'-0"  
d-date.dwg



**2 TREE AND PALM GRATE BRACE** PLAN / SECTION  
SCALE: 3/8"=1'-0"  
D\_TREE BRACING GRATE

**NOTE:**

1. ALL QUALITY TREE CARE PRODUCTS ARE SUPERIOR QUALITY MULTIPART SYSTEMS WHICH INCLUDE EVERYTHING FOR THE SECURE ANCHORING OF PALMS AND OTHER TREES. THE SYSTEMS CONSISTS OF NEUTRAL COLOR HIGH STRENGTH POLYESTER WEBBING IN 1", 2", AND 3" WIDTHS. ATTACHED ARE 3-4 OR MORE ADJUSTABLE LOOPS AND D-RINGS IN COMPATIBLE SIZES TO THE WEBBING WITH A 1" CAM BUCKLE OR A 1", 2", OR 3" RATCHET BUCKLE. CABLING IS 7 X 19 GALVANIZED AIRCRAFT CABLE FROM 1/2" TO 3/4" OR LARGER, IF NEEDED, INCLUDING A 3/8" X 6" TO 1/2" X 12" TURNBUCKLES. COMPLETING THE SYSTEMS ARE 1/2" TO 3/4" CABLE CLAMPS.
2. ALL HARDWARE SIZES ON DETAILS CAN BE SPECIFIED BASED ON THE TREE SIZE AND SP4CIFIC LOAD REQUIREMENTS.
3. ALL STEEL COMPONENTS ARE EITHER ZINC PLATE, MALLEABLE DROP FORGED GALVANIZED OR MAY BE SPECIFIED IN TAINLESS STEEL IF DESIRED.
4. CONTACT:  
OASIS TREE CARE PRODUCTS- PALM AND TREE ANCHORING SYSTEMS  
P.O. BOX 596, SPICEWOOD, TX 78669  
PH: 713.665.7256  
WWW.hciglobal.com / gis@hciglobal.com  
(U.S. PATENT US6,389,743 B1)



**3 PALM BRACING** SECTION  
SCALE: NTS  
d-palm stake.dwg



DATE: 08/27/2019  
SCALE: AS SHOWN

DESIGNED BY: EDSA	CHECKED BY: EDSA
DRAWN BY: EDSA	FILED BOOK:

**CITY OF FORT LAUDERDALE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING & ARCHITECTURE  
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

**100% CONSTRUCTION DRAWINGS**

PROJECT # 11681  
A1A STREETSCAPE IMPROVEMENTS  
FORT LAUDERDALE, FL  
FDOT LANDSCAPE PERMIT # 2019.L-491-00003  
LANDSCAPE DETAILS

SHEET NO.	1 OF 00
<b>L508</b>	

**UB 18-2 TECH SHEET**

This 18" high by 24" wide barrier is for linear, surround, and root pruning applications. It is suitable for use on sidewalks, paths, and patios, as well as other tree planting situations.

UB 18-2	SPECIFICATIONS + FEATURES
	<p><b>USES:</b> Redirect tree roots down and away from hardscapes.</p> <p><b>MATERIALS:</b> High-quality 75% reprocessed recycled injection molded polypropylene. Manufactured in ISO 9001:2008 registered factories.</p> <p><b>SIZES &amp; PACKAGING:</b> Each panel is 18" (457mm) x 24" (610mm) 36 Panels (87 linear feet / 16 m) per carton. 20 cartons per pallet, approximately 83 lbs. (19.5 kg) per carton.</p> <p><b>FEATURES:</b> • 90° ribs redirect root growth down and away from hardscape • Instant assembly: panels slide together with a zipper joining system • Patented double top edge for strength, safety, appearance and root overgrowth protection • Added UV inhibitors prevent breakdown from sun exposure • Rounded edges for safety in handling • Made in the USA.</p>

**APPLICATIONS**

**LINEAR:**  
Provide maximum hardscape protection while utilizing all available rooting space for improved tree health by placing guides in a straight line directly along the hardscape to be protected.

**SURROUND:**  
Protect hardscapes that surround a planting on all four sides. Plan to line the perimeter of the planting area with the panels—this provides the maximum available uncompacted soil volume for immediate root growth.

**ROOT PRUNING:**  
Root pruning can help save existing trees and prevent future damage to paving. Disruptive roots are clearly cut and removed; linear Root Barrier is then installed. There are limitations to root pruning and an ISA Certified Arborist should be consulted.

**HOW TO SPECIFY:**  
1. Determine linear, surround, root pruning or specialty application.  
2. Pick appropriate barrier depth for application and site.  
3. Calculate number of panels required.  
4. For details on linear or any other installation instructions, please refer to our Specification and Installation Manual, or visit [www.deepproot.com](http://www.deepproot.com).

**ZIPPER JOINING SYSTEM:**  
Each panel has a built-in zipper joint along one edge, making assembly of the panels in the field quick and easy.

**DOUBLE TOP EDGES:**  
Patented double top edge adds strength, safety, and root overgrowth protection.

DeepRoot Green Infrastructure, LLC  
Corporate Office: 550 Washington Street, San Francisco, CA 94111  
1-800-547-4444 • 415-777-4444 • [www.deepproot.com](http://www.deepproot.com)  
© 2014 DeepRoot Green Infrastructure, LLC  
Printed on 100% FSC Recycled Paper

**1** ROOT BARRIER\_UB18 PRODUCT SHEET dH-products\_deepproot.dwg N.T.S.

**UB 24-2 TECH SHEET**

This 24" high by 24" wide barrier is for linear, surround, and root pruning applications. It is ideal for protection from aggressive, invasive roots in sidewalks, curbs and gutters, driveways, and patios, as well as many other planting situations.

UB 24-2	SPECIFICATIONS + FEATURES
	<p><b>USES:</b> Redirect tree roots down and away from hardscapes.</p> <p><b>MATERIALS:</b> High-quality 75% reprocessed recycled injection molded polypropylene. Manufactured in ISO 9001:2008 registered factories.</p> <p><b>SIZES &amp; PACKAGING:</b> Each panel is 24" (610mm) x 24" (610mm) 20 Panels (80 linear feet / 12.2 m) per carton. 20 cartons per pallet, approximately 44 lbs. (19.5 kg) per carton.</p> <p><b>FEATURES:</b> • 90° ribs redirect root growth down and away from hardscape • Instant assembly: panels slide together with a zipper joining system • Patented double top edge for strength, safety, appearance and root overgrowth protection • Added UV inhibitors prevent breakdown from sun exposure • Rounded edges for safety in handling • Made in the USA.</p>

**LINEAR:**  
Provide maximum hardscape protection while utilizing all available rooting space for improved tree health by placing guides in a straight line directly along the hardscape to be protected.

**SURROUND:**  
Protect hardscapes that surround a planting on all four sides. Plan to line the perimeter of the planting area with the panels—this provides the maximum available uncompacted soil volume for immediate root growth.

**ROOT PRUNING:**  
Root pruning can help save existing trees and prevent future damage to paving. Disruptive roots are clearly cut and removed; linear Root Barrier is then installed. There are limitations to root pruning and an ISA Certified Arborist should be consulted.

**HOW TO SPECIFY:**  
1. Determine linear, surround, root pruning or specialty application.  
2. Pick appropriate barrier depth for application and site.  
3. Calculate number of panels required.  
4. For details on linear or any other installation instructions, please refer to our Specification and Installation Manual, or visit [www.deepproot.com](http://www.deepproot.com).

**ZIPPER JOINING SYSTEM:**  
Each panel has a built-in zipper joint along one edge, making assembly of the panels in the field quick and easy.

**DOUBLE TOP EDGES:**  
Patented double top edge adds strength, safety, and root overgrowth protection.

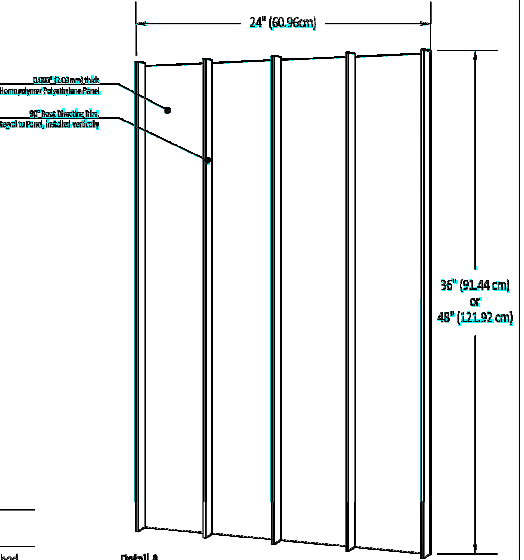
DeepRoot Green Infrastructure, LLC  
Corporate Office: 550 Washington Street, San Francisco, CA 94111  
1-800-547-4444 • 415-777-4444 • [www.deepproot.com](http://www.deepproot.com)  
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**2** ROOT BARRIER\_UB24 PRODUCT SHEET dH-products\_deepproot.dwg N.T.S.

**UB 36-2/UB 48-2 Specifications**  
**36" and 48" DeepRoot® Tree Root Barrier**

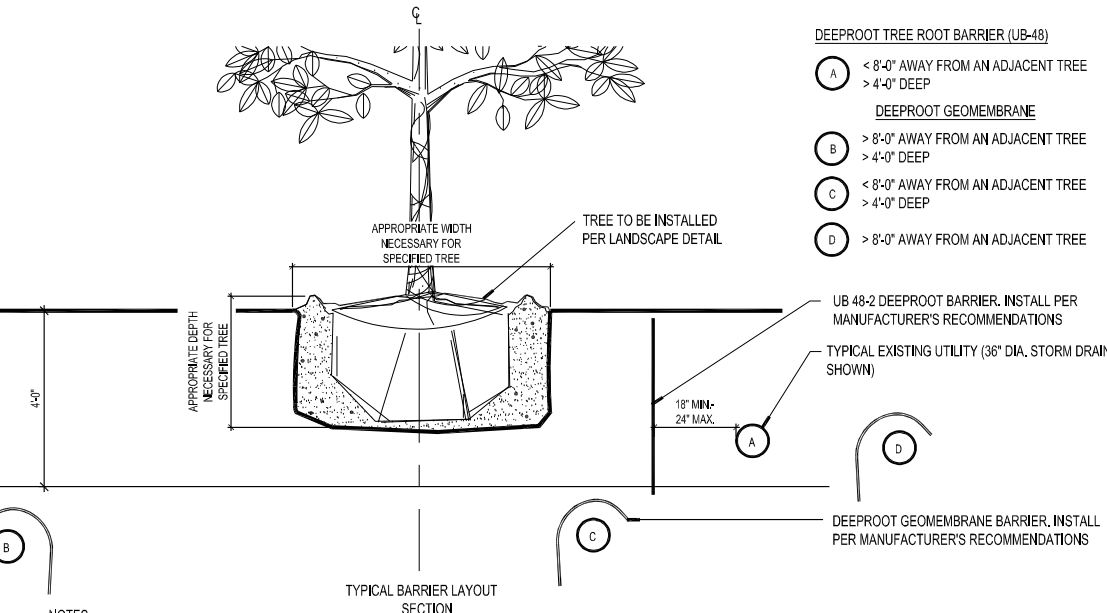
Specified tree root barrier is a mechanical barrier and root deflector used to prevent tree roots from damaging hardscapes and landscapes. Assembled in 24" (609 mm) long modules to create varying lengths for linear applications, or perimeter surround applications at minimum 8" (203mm) diameter.

- A. Materials**
- The contractor shall furnish and install tree root barrier as specified. The root barrier shall be either product #UB 36-2 or UB 48-2 as manufactured by DeepRoot® Green Infrastructure, LLC, 530 Washington Street, San Francisco, CA, [www.deepproot.com](http://www.deepproot.com) (800.458.7658).
  - Root barrier shall be recyclable, black, extruded panels with 0.80" (2.03 mm) wall thickness in modules 24" (609 mm) long and either 36" (914 mm) or 48" (1219 mm) deep.
  - Root barrier shall be manufactured with 100% reprocessed homopolymer polyethylene with added ultraviolet inhibitors.
  - Root barrier shall be comprised of 24" (609 mm) modules. Each panel shall have no less than four (4) molded integral Vertical Root Directing Ribs of a minimum 0.080" (2.03 mm) thickness, protruding 1/2" (12.7 mm) at 90° from interior of the barrier panel, spaced 6" (152.4 mm) apart. (See Detail A)
  - Root barrier shall have an integrated Joining System for assembly by sliding one panel into another.



Material and Thickness	Homopolymer Polyethylene 0.080 Inch Extruded	
Properties	Typical Value	ASTM Test Method
Tensile stress @ yield	3800 PSI	D638
Elongation @ break %	10%	D638
Tensile Modulus	155,000 PSI	D638
Notched Izod Impact	0.4 - 4.0	D256A
Flexural Modulus 73 1/8 PSI	145,000	D790
Hardness Shore	P66	D2240

**3** ROOT BARRIER\_UB48 PRODUCT SHEET dH-products\_deepproot.dwg N.T.S.



- DEEPROOT TREE ROOT BARRIER (UB-48)**
- A < 8'-0" AWAY FROM AN ADJACENT TREE  
> 4'-0" DEEP
- DEEPROOT GEOMEMBRANE**
- B > 8'-0" AWAY FROM AN ADJACENT TREE  
> 4'-0" DEEP
  - C < 8'-0" AWAY FROM AN ADJACENT TREE  
> 4'-0" DEEP
  - D > 8'-0" AWAY FROM AN ADJACENT TREE

**NOTES:**

- CONTRACTOR SHALL SUBMIT ROOT BARRIER PRODUCT SHOP DRAWINGS FOR CITY AND ENGINEER/LANDSCAPE ARCHITECT REVIEW.
- CONTRACTOR SHALL MAINTAIN EXTREME CAUTION WHEN WORKING IN THE VICINITY OF THE EXISTING UTILITIES.
- CONTRACTOR IS RESPONSIBLE TO SOFT DIG UTILITIES TO LOCATE ACCURATE UTILITY DEPTH AND LIMIT RISK OF DAMAGE TO EXISTING UTILITY LINES.
- FOR ANY UTILITY BARRIER METHOD, INSTALL BARRIER AS CLOSE TO UTILITY AS FEASIBLE
- WHEN ADJACENT TO PAVEMENT, INSTALL ROOT BARRIER AS CLOSE TO PAVEMENT EDGE AS FEASIBLE

**4** DEEPROOT OVER UTILITIES SECTION dP-rootbarrier\_utilities.dwg SCALE: 1/2"=1'-0"

Bid 12662-223  
**Kimley-Horn**  
EDSA, Inc.  
1512 E. Broward Blvd, Suite 110  
Fort Lauderdale, FL 33301  
954.524.3300

DATE: 08/27/2019  
DRAWN BY: EDSA  
DESIGNED BY: EDSA  
CHECKED BY: EDSA  
SCALE: AS SHOWN  
FIELD BOOK:

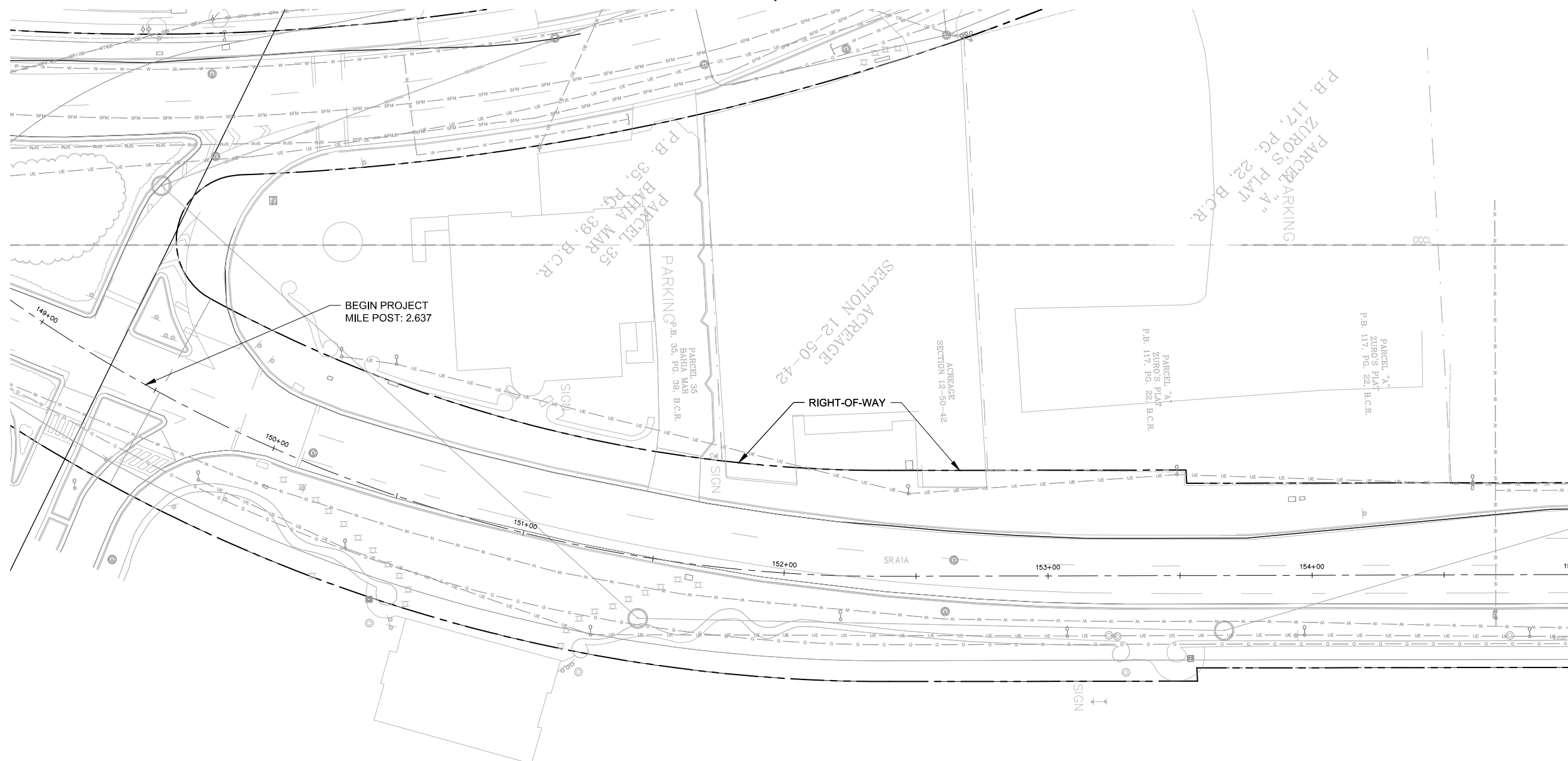
**CITY OF FORT LAUDERDALE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING & ARCHITECTURE  
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11681  
A1A STREETSCAPE IMPROVEMENTS  
FORT LAUDERDALE, FL  
FDOT LANDSCAPE PERMIT # 2019-L-491-00003  
LANDSCAPE DETAILS

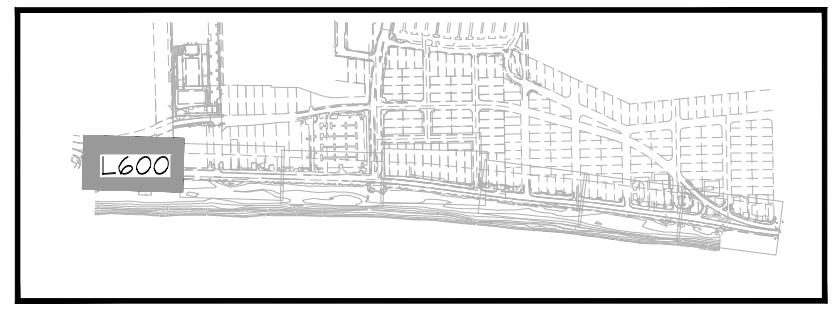
SHEET NO. **L509** 1 OF 00



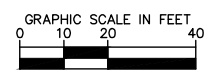
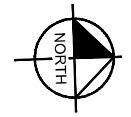


MATCHLINE - STA. 155+00 - SEE SHEET L601

NO IRRIGATION THIS SHEET

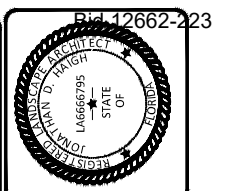


KEY MAP



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

**Sunshine811.com**



**Kimley-Horn**

1000 S. CONGRESS AVE., SUITE 100  
 DELRAY BEACH, FL 33445  
 PHONE: 561-320-2300 FAX: 561-320-3240  
 WWW.KIMLEY-HORN.COM CA 0000098

JONATHAN D. HAIGH, P.E.  
 LA #6666795

DATE: JUNE, 2022	SCALE:
DESIGNED BY:	CHECKED BY:
DRAWN BY:	FIELD BOOK:

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE

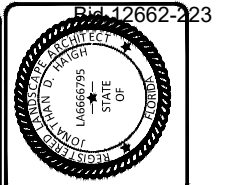
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DATE

PROJECT #11681  
 AIA STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL

**IRRIGATION PLAN**

SHEET NO. **L600** OF



**Kimley-Horn**  
1800 N. UNIVERSITY BLVD., SUITE 100  
DELRAY BEACH, FL 33445  
PHONE: 561-320-2200 FAX: 561-320-2240  
WWW.KIMLEY-HORN.COM CA 00000006

JONATHAN D. HAIGH, P.E.  
LA #6666795

DRAWN BY:	DATE:	DESIGNED BY:	SCALE:
	JUNE, 2022		
CHECKED BY:	FIELD BOOK:		

**CITY OF FORT LAUDERDALE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING & ARCHITECTURE  
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

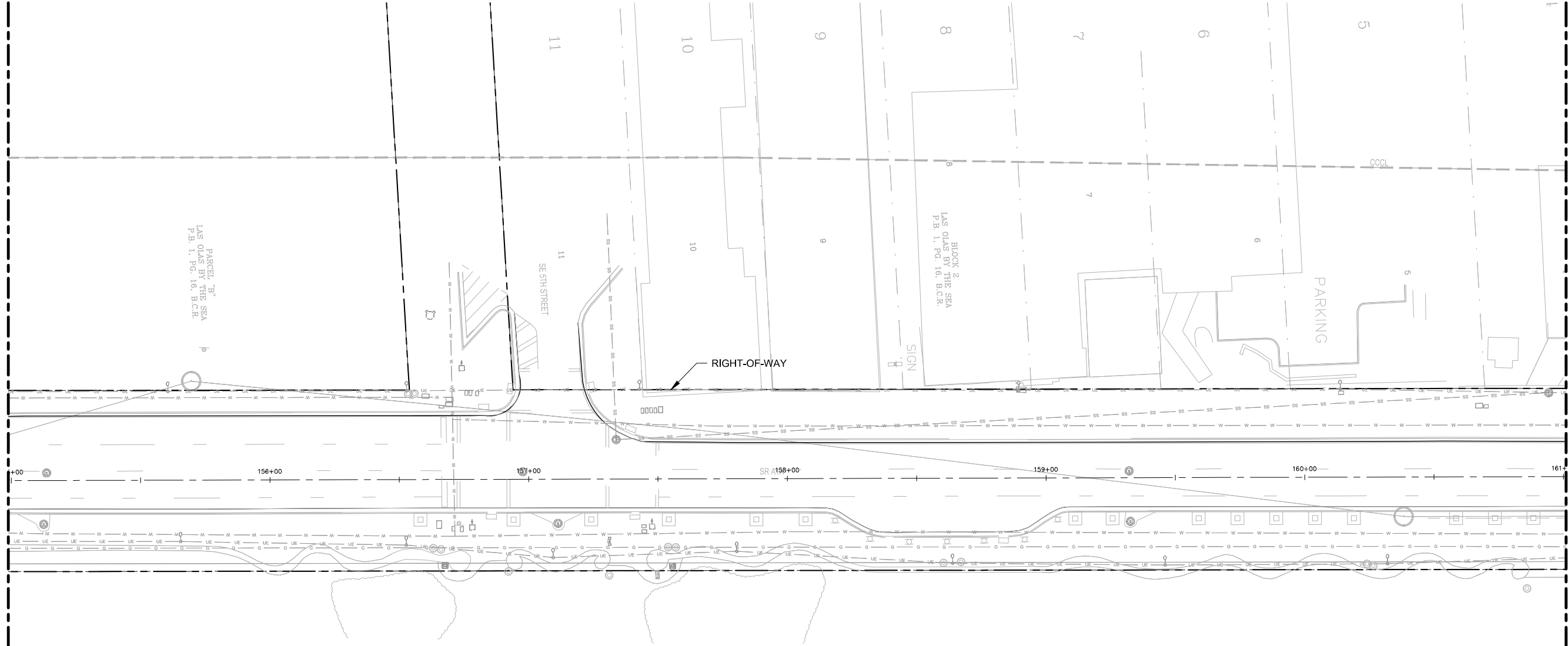
REVISIONS	
NO.	DATE
BY	DESCRIPTION

PROJECT #11881  
AIA STREETScape IMPROVEMENTS  
FORT LAUDERDALE, FL  
**IRRIGATION PLAN**

SHEET NO.  
**L601**  
1 OF 00  
SUBMIT FILE

MATCHLINE - STA. 155+00 - SEE SHEET L600

MATCHLINE - STA. 161+00 - SEE SHEET L602



NO IRRIGATION THIS SHEET



KEY MAP

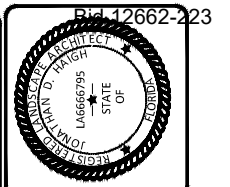


GRAPHIC SCALE IN FEET  
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FDOT PERMIT NUMBER: 2019-L-491-00006





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 DELRAY BEACH, FL 33445  
 PHONE: 561-320-2200 FAX: 561-320-2240  
 WWW.KIMLEY-HORN.COM CA 00000006

JONATHAN D. HAIGH, PLA  
 LA #6686795

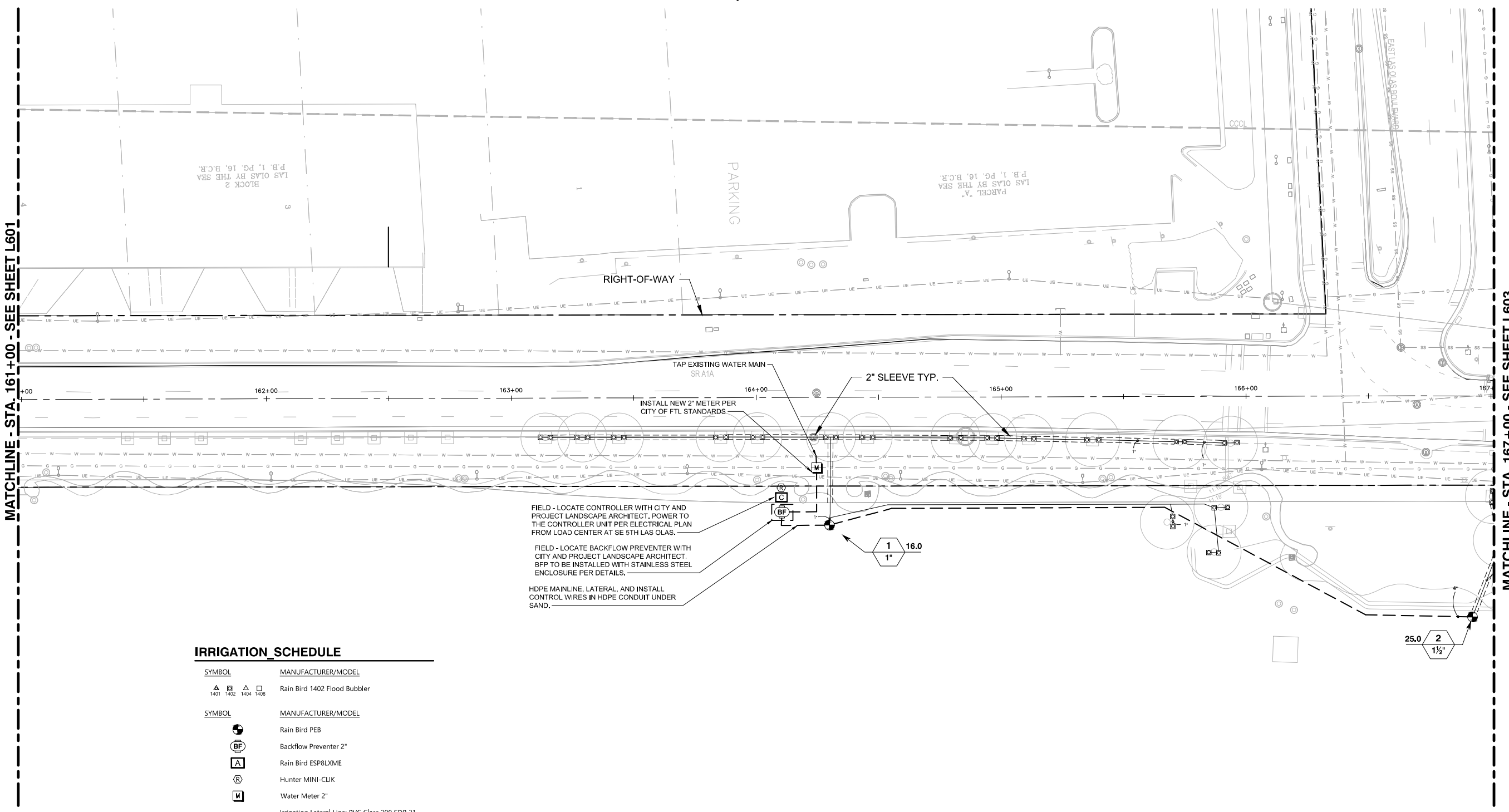
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 DESIGNED BY: SCALE:  
 CHECKED BY:  
 FIELD BOOK:

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DATE

PROJECT #11881  
 AIA STREETSCAPE IMPROVEMENTS  
 FORT LAUDERDALE, FL  
**IRRIGATION PLAN**

SHEET NO.  
**L602** 1 OF 00  
 DRAWING FILE  
 Exhibit 1D



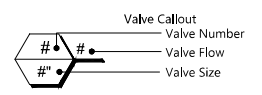
FIELD - LOCATE CONTROLLER WITH CITY AND PROJECT LANDSCAPE ARCHITECT. POWER TO THE CONTROLLER UNIT PER ELECTRICAL PLAN FROM LOAD CENTER AT SE 5TH LAS OLAS.

FIELD - LOCATE BACKFLOW PREVENTER WITH CITY AND PROJECT LANDSCAPE ARCHITECT. BFP TO BE INSTALLED WITH STAINLESS STEEL ENCLOSURE PER DETAILS.

HDPE MAINLINE, LATERAL, AND INSTALL CONTROL WIRES IN HDPE CONDUIT UNDER SAND.

**IRRIGATION SCHEDULE**

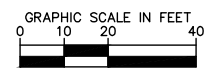
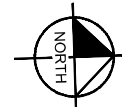
SYMBOL	MANUFACTURER/MODEL
▲ 1401	Rain Bird 1402 Flood Bubbler
▲ 1402	
▲ 1404	
▲ 1408	
SYMBOL	MANUFACTURER/MODEL
●	Rain Bird PEB
BF	Backflow Preventer 2"
A	Rain Bird ESPBLXME
R	Hunter MINI-CLIK
M	Water Meter 2"
---	Irrigation Lateral Line: PVC Class 200 SDR 21
---	Irrigation Mainline: PVC Schedule 40
---	Pipe Sleeve: PVC Schedule 40



REFER TO MASTER IRRIGATION SCHEDULE ON SHEET L606 AND DETAILS ON SHEETS L610 - L612



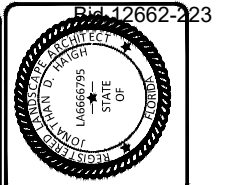
KEY MAP



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

**Sunshine811.com**

FDOT PERMIT NUMBER: 2019-L-491-00006



**Kimley-Horn**  
 1800 S. CONGRESS AVE. SUITE 100  
 DELRAY BEACH, FL 33445  
 PHONE: 561-320-2323 FAX: 561-320-2242  
 WWW.KIMLEY-HORN.COM CA 00000636

JONATHAN D. HAIGH, P.E.  
 LA #6666795

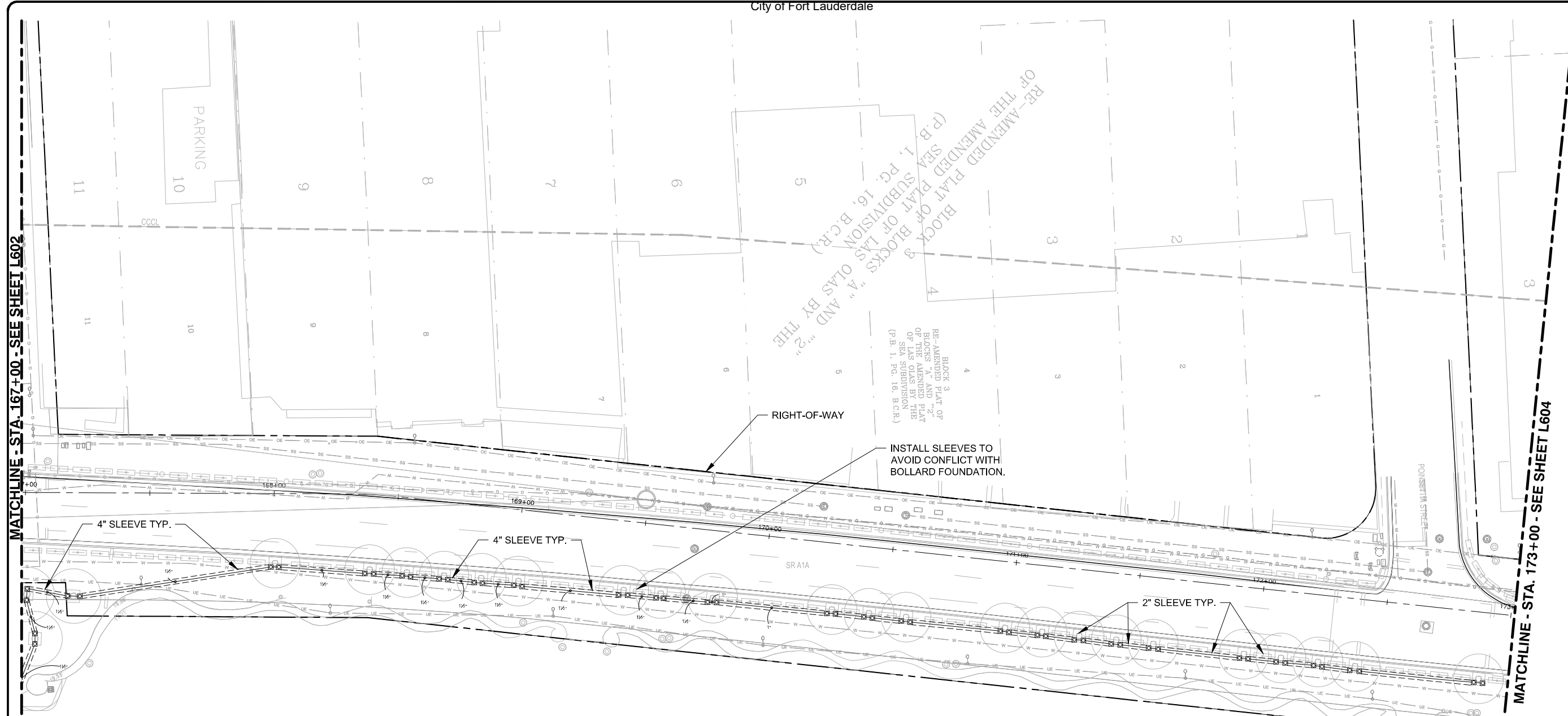
DRAWN BY:	DATE:	DESIGNED BY:	SCALE:
	JUNE, 2022		
CHECKED BY:	FIELD BOOK:		

CITY OF FORT LAUDERDALE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

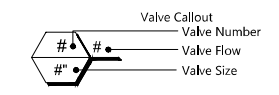
PROJECT #11881  
 AIA STREETScape IMPROVEMENTS  
 FORT LAUDERDALE, FL  
**IRRIGATION PLAN**

SHEET NO.	1 OF 00
<b>L603</b>	



**IRRIGATION\_SCHEDULE**

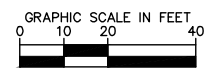
SYMBOL	MANUFACTURER/MODEL
	Rain Bird 1402 Flood Bubbler
	Rain Bird PEB
	Backflow Preventer 2"
	Rain Bird ESP8LXME
	Hunter MINI-CLIK
	Water Meter 2"
	Irrigation Lateral Line: PVC Class 200 SDR 21
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: PVC Schedule 40



REFER TO MASTER IRRIGATION SCHEDULE ON SHEET L606 AND DETAILS ON SHEETS L610 - L612



KEY MAP



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

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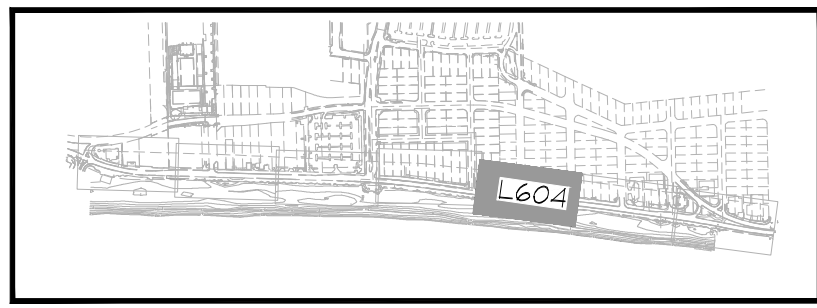
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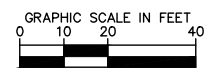
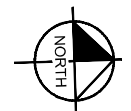
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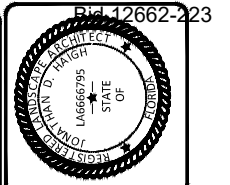


KEY MAP



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

**Sunshine811.com**



**Kimley-Horn**  
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 www.kimley-horn.com CA 00000006

JONATHAN D. HAIGH, P.E.  
 LA #6666795

DATE:	JUNE, 2022
DESIGNED BY:	SCALE:
CHECKED BY:	FIELD BOOK:

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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NO.	DESCRIPTION

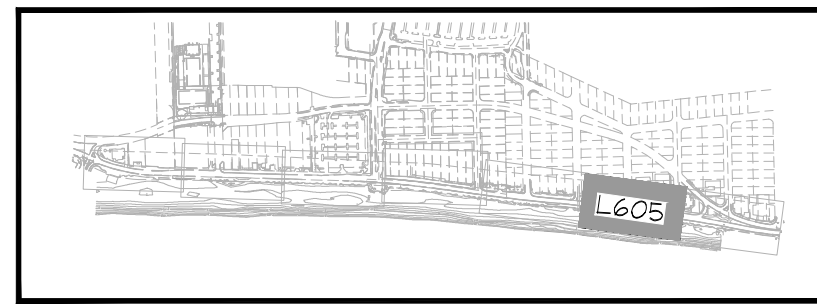
PROJECT #11881  
 AIA STREETScape IMPROVEMENTS  
 FORT LAUDERDALE, FL  
**IRRIGATION PLAN**

SHEET NO.	1 OF 00
<b>L604</b>	00

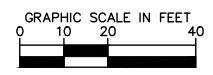
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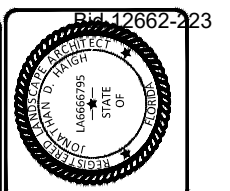


KEY MAP



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

**Sunshine811.com**



**Kimley-Horn**  
 1000 S. BOCA RATON BLVD., SUITE 100  
 DELRAY BEACH, FL 33445  
 PHONE: 561-320-3242 FAX: 561-320-3243  
 WWW.KIMLEY-HORN.COM CA 00000636

JONATHAN D. HAIGH, P.L.A.  
 LA #6666795

DRAWN BY:	DATE:	DESIGNED BY:	SCALE:
	JUNE, 2022		
CHECKED BY:			

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT #11881  
 AIA STREETScape IMPROVEMENTS  
 FORT LAUDERDALE, FL  
**IRRIGATION PLAN**

SHEET NO.	1 OF 00
<b>L605</b>	