

SECTION No.(s): 860500  
S.R. No.(s): A1A  
FM No: 433688-6-52-01  
COUNTY: BROWARD COUNTY

**DISTRICT FOUR (4) AMENDMENT NUMBER NINE (9) TO STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE  
MEMORANDUM OF AGREEMENT**

**THIS AMENDMENT** Number Nine (9) to the Agreement dated January 31, 2008, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the CITY OF FORT LAUDERDALE, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

**W I T N E S S E T H**

**WHEREAS**, the parties entered into the Landscape Inclusive Maintenance of Agreement dated, January 31, 2008 for the purpose of maintaining the landscape improvements by the AGENCY on State Road A1A ; and,

**WHEREAS**, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road A1A in accordance with the above referenced Agreement; and,

**WHEREAS**, the AGENCY by Resolution No. \_\_\_\_\_ dated \_\_\_\_\_, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorized its officers to do so; and,

**NOW THEREFORE**, for and in consideration of mutual benefits that flow each to the other, the parties covenant and agree as follows:

1. Pursuant to paragraph 14 of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road A1A dated January 31, 2008, the DEPARTMENT has decided to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road A1A from N.E. 9<sup>th</sup> Street (M.P. 3.248) to N.E. 18<sup>th</sup> Street (M.P. 4.322) in accordance with the plans attached as **Exhibit "B"**.
2. The AGENCY shall agree to maintain the additional landscape improvements in the Agreement described above according the **Exhibit "C"** Maintenance Plan, attached to this Amendment.
3. The DEPARTMENT agrees to enter into a contract to have installed said landscape improvements for an amount as indicated in **Exhibit "D"** not to exceed \$973,204.00.

Except as modified by this Amendment, all terms and conditions of the original Agreement and all Amendments thereto shall remain in full force and effect.

**LIST OF EXHIBITS**

- Exhibit A - Landscape Improvements Limits and Maintenance Boundaries and Location Map
- Exhibit B - Landscape Improvement Plans
- Exhibit C - Maintenance Plan Landscape Improvements
- Exhibit D - Approximate Cost For Landscape Improvements

**IN WITNESS WHEREOF**, this Agreement is to be executed below for the purposes specified herein. Authorization has been given to enter into and execute this Agreement by Resolution \_\_\_\_\_, hereto attached.

**WITNESSES:**

**CITY OF FORT LAUDERDALE**

\_\_\_\_\_

[Witness type/print name]

\_\_\_\_\_  
John P. "Jack" Seiler, Mayor

\_\_\_\_\_

[Witness type/print name]

\_\_\_\_\_  
Lee R. Feldman, City Manager

**ATTEST:**

\_\_\_\_\_  
Jonda K. Joseph, City Clerk

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Cole J. Copertino, Assistant City Attorney



SECTION No.(s): 860500  
S.R. No.(s): A1A  
FM No: 433688-6-01  
COUNTY: BROWARD COUNTY

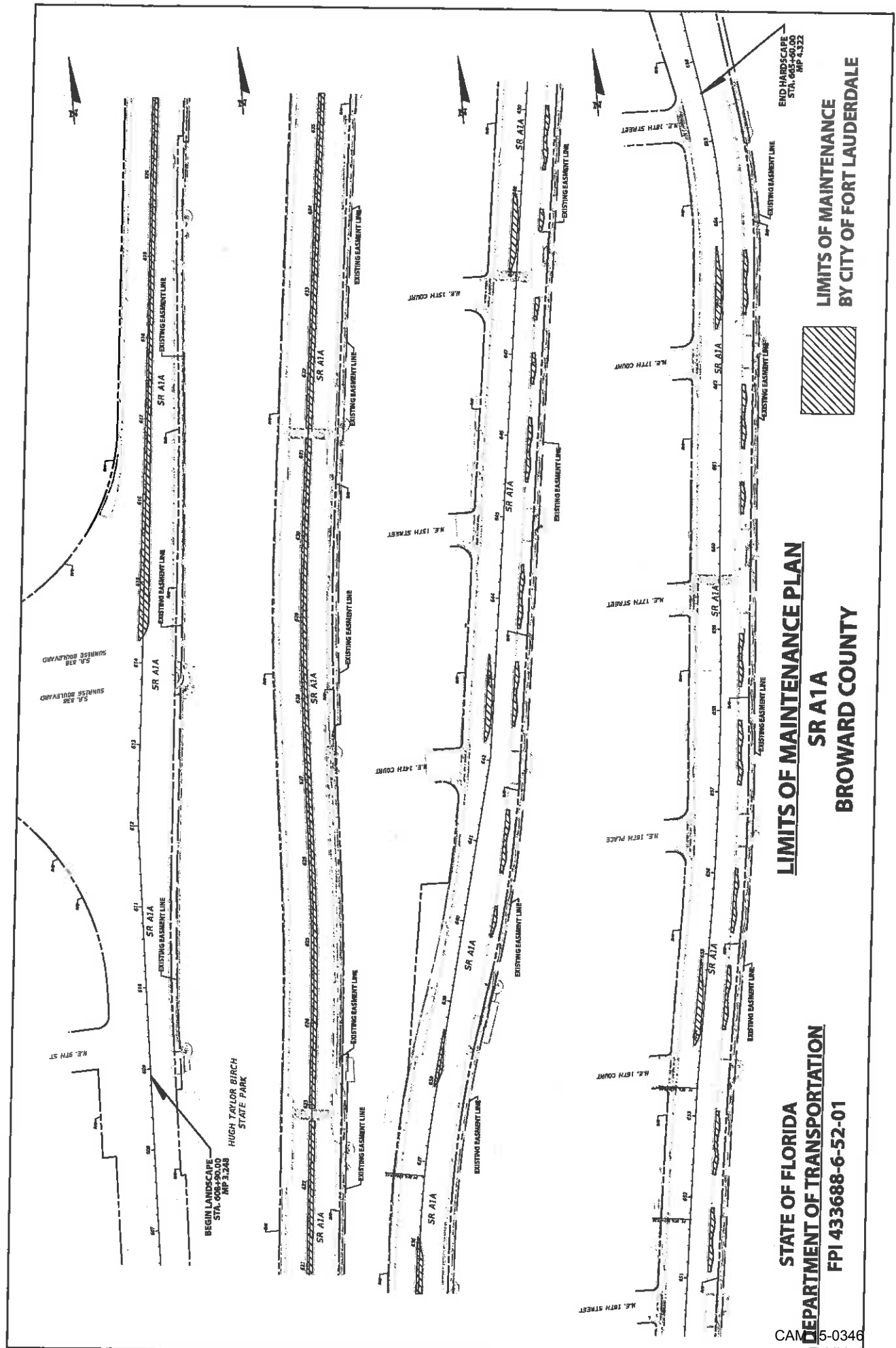
**EXHIBIT A**

**LANDSCAPE IMPROVEMENTS PROJECT LIMITS  
MAINTENANCE BOUNDARIES LIMITS AND LOCATION MAP**

- I. LANDSCAPE PROJECT LIMITS:  
State Road A1A from N.E. 9<sup>th</sup> Street (M.P. 3.248) to N.E. 18<sup>th</sup> Street (M.P. 4.322) (M.P. 4.322)
  
- II. INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS:  
North Fort Lauderdale Beach Area (Section 86050000)  
M.P. 2.039 (South of Poinsettia Street) to M.P. 6.410 (Flamingo Drive)
  
- III. MAINTENANCE BOUNDARY LIMITS MAP:

\*All limits of the original agreement and amendments shall apply

Please See Attached



BEGIN LANDSCAPE  
 STA. 608+90.00  
 MP 3.248  
 HUGH TAYLOR BIRCH  
 STATE PARK

END HARDSCAPE  
 STA. 645+60.00  
 MP 4.322



**LIMITS OF MAINTENANCE PLAN**

**SR A1A**

**BROWARD COUNTY**

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 FPI 433688-6-52-01

**SECTION No.(s):** 860500  
**S.R. No.(s):** A1A  
**FM No:** 433688-6-52-01  
**COUNTY:** BROWARD COUNTY

**EXHIBIT B**

**LANDSCAPE IMPROVEMENT PLANS**

The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: Cheryl C. Callender, R.L.A. 6667177  
Keith and Schnars, PA.  
Date: January 14, 2015

Sheets LD -1 - 4  
SQ -1 & 2  
LD - 5 - 43

COMPONENTS OF CONTRACT PLANS SET

LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

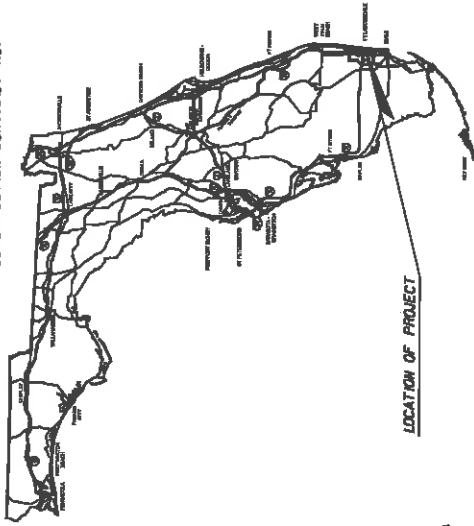
INDEX OF LANDSCAPE PLANS

- SHEET NO. SHEET DESCRIPTION
- LD-1 KEYSHEET
- LD-2 SIGNATURE SHEET
- LD-3 SUMMARY OF PAY ITEMS
- LD-4 TABULATION OF QUANTITIES
- LD-5 TO SR-2 QUANTITIES
- LD-6 TO LD-7 LANDSCAPE NOTES
- LD-8 LANDSCAPE DETAILS
- LD-9 SHEET LAYOUT
- LD-10 LANDSCAPE PLAN
- LD-11 TO LD-22 IRRIGATION TABULATION OF QUANTITIES
- LD-23 IRRIGATION NOTES
- LD-24 IRRIGATION DETAILS
- LD-25 TO LD-39 TRAFFIC CONTROL PLAN
- LD-40 TRAFFIC CONTROL PLAN
- LD-41 TO LD-43 TRAFFIC CONTROL PLAN

GOVERNMENT STANDARDS AND SPECIFICATIONS: CONSULT THE DESIGNER'S DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPLICABLE HEREIN AND ALL FOR STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED BY CONTRACT DOCUMENTS.

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEBSITE:  
<http://www.dot.state.tx.us/standards>  
 FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEBSITE:  
<http://www.dot.state.tx.us/appeal/contract.html#ss>

CONSTRUCTION CONTRACT No.



LOCATION OF PROJECT

LANDSCAPE SHOP DRAWINGS TO BE SUBMITTED TO:

CHERYL C. CALLENDER, R.L.A.  
 KEITH AND SCHNARS, P.A.  
 6500 NORTH ANDREWS AVE  
 FT. LAUDERDALE, FL 33309  
 (954) 776-1665

PLANS PREPARED BY:

**KEITH and SCHNARS, P.A.**  
 6500 North Andrews Ave.  
 Ft. Lauderdale, FL 33309-2832

CERTIFICATE OF AUTHORIZATION NO. 1337

VENDOR IDENTIFICATION NO. 89-1405-307  
 CONTRACT NO. C-5682

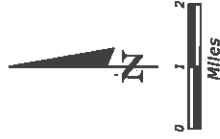
NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

**CONSTRUCTABILITY**  
 JANUARY 2015

LANDSCAPE PLANS  
 LANDSCAPE ARCHITECT CHERYL C. CALLENDER, R.L.A.  
 OF RECORD:

R.L.A. NO.: 6667/IT

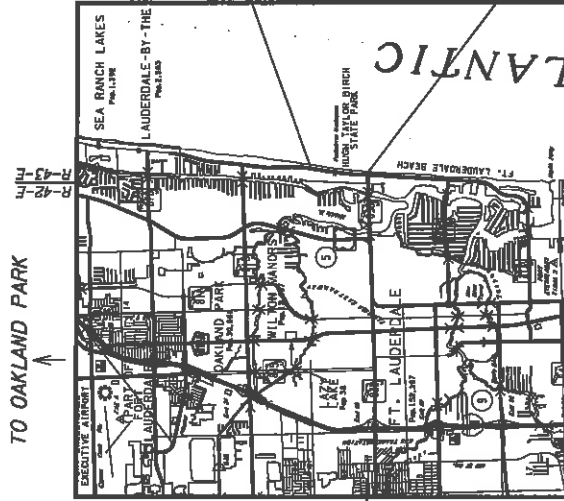
FISCAL YEAR	16	SHEET NO.	LD-1
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END PROJECT  
 MP 4.322  
 STA 656+00.00

T-49-S  
 T-50-S

BEG IN PROJECT  
 MP 3.248  
 STA 608+90.00



T-49-S  
 T-50-S

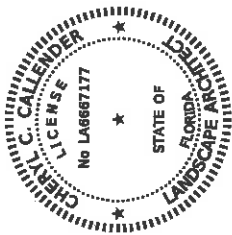
PROJECT LENGTH IS BASED ON BASELINE

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	5,697.00	1.079
BRIDGES	N/A	N/A
NET LENGTH OF PROJECT	5,697.00	1.079
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	5,697.00	1.079

FDOT PROJECT MANAGER: SCOTT PETERSON, PE

KEY SHEET REVISIONS	
DATE	DESCRIPTION

REVISIONS

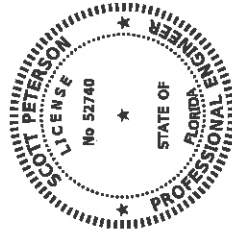


KEITH AND SCHWARS, P.A.  
6500 NORTH ANDREWS AVE  
FT. LAUDERDALE, FL 33309  
CERTIFICATE OF AUTHORIZATION #1337  
CHERYL C. CALLENDER, R.L.A. NO. 6667177

THE ABOVE NAMED PROFESSIONAL LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F. A. C.

**LANDSCAPE PLANS**

- SHEET NO. LD-1 KEY SHEET
- LD-2 SIGNATURE SHEET
- LD-3 SUMMARY OF PAY ITEMS
- LD-4 TABULATION OF QUANTITIES
- LD-5 LANDSCAPE NOTES
- LD-6 TO LD-7 LANDSCAPE DETAILS
- LD-8 SHEET LAYOUT
- LD-9 TO LD-22 LANDSCAPE PLAN
- LD-23 IRRIGATION TABULATION OF QUANTITIES
- LD-24 IRRIGATION NOTES
- LD-25 IRRIGATION DETAILS
- LD-26 TO LD-39 IRRIGATION PLAN



FLORIDA DEPARTMENT OF TRANSPORTATION,  
DISTRICT V COMMERCIAL BOULEVARD  
3400 WEST COMMERCIAL BOULEVARD  
FT. LAUDERDALE, FL 33309  
SCOTT PETERSON, P.E. NO. 52740

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.003, F. A. C.

**LANDSCAPE PLANS**

- SHEET NO. LD-2 SIGNATURE SHEET
- SQ-1 TO SQ-2 SUMMARY OF QUANTITIES
- LD-40 TRAFFIC CONTROL PLAN
- LD-41 TO LD-43 TRAFFIC CONTROL PLAN

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
COUNTY BROWARD  
ROAD NO. A/A  
FINANCIAL PROJECT ID 433688-6-52-01

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
COUNTY BROWARD  
ROAD NO. A/A  
FINANCIAL PROJECT ID 433688-6-52-01

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
COUNTY BROWARD  
ROAD NO. A/A  
FINANCIAL PROJECT ID 433688-6-52-01

**SIGNATURE SHEET**

SHEET NO. LD-2

1/25/2015



08/30/2014 11:22:07 AM

FLORIDA DEPARTMENT OF TRANSPORTATION  
PROJECT SUMMARY OF PAY ITEMS  
FOR PROJECT: 433688-6-52-01

LEAD PROJECT : 433688-6-52-01      DISTRICT : 04      COUNTY/SECTION : 86050000  
PROJECT(S) : 43368865201      COUNTY : BROWARD

0600 SUMMARY OF LANDSCAPE / PERIPHERAL

SPEC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43368865201	QUANTITY TOTAL
		0999- 2-	LUMP SUM CONTRACT, ALTERNATIVE BIDDING	LS	1.000	1.000
		0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS	1.000	1.000

STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID 433688-6-52-01		SHEET NO. LD-3
KEITH and SCHNARS P.A. 8000 N. Andrews Ave., Ft. Lauderdale, FL 33322-3232 (954) 774-6498		COUNTY BROWARD
LICENSED ARCHITECT OF RECORD: CHERRY S. SCHNARS, P.E., AIA (00010) CERTIFICATE OF AUTHORIZATION 00010101		AIA BROWARD
REVISIONS DATE BY DESCRIPTION		

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SUMMARY OF LUMP SUM ITEMS				
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		CONSTRUCTION REMARKS
		P	F	
101-1	Mobilization	1		
999-2	Lump Sum Contract	1		
999-23	Initial Contingency Amount	1		

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS													
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F			
			DAYS	P	P	DAYS	P	P	P	F			
	Maintenance of Traffic	LS											
	Work Zone Sign	ED											
	TEMPORARY BARRICADE, Types T, TI, DI, VP, Drum, or LCD	ED											
	Barricade Temporary, Type III, 6'	ED											
	Arrow Board/ Advance Warning Arrow Panel	ED											
	High Intensity Flashing Lights, Temp, Type B	ED											
	Portable Changeable Message Sign	ED											

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS													
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE III			PHASE IV			GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F			
			DAYS	P	P	DAYS	P	P	P	F			
	Maintenance of Traffic	LS											
	Work Zone Sign	ED											
	TEMPORARY BARRICADE, Types T, TI, DI, VP, Drum, or LCD	ED											
	Barricade Temporary, Type III, 6'	ED											
	Arrow Board/ Advance Warning Arrow Panel	ED											
	High Intensity Flashing Lights, Temp, Type B	ED											
	Portable Changeable Message Sign	ED											

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT 11 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us				
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A COUNTY BROWARD FINANCIAL PROJECT ID 433688-6-52-01				
<b>SUMMARY OF QUANTITIES</b>				
				SHEET NO. <b>50-1</b>

**SUMMARY OF LITTER REMOVAL AND MOWING**

CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	
					AREA ID	LENGTH	WIDTH	CYCLES	AC/ CYCLE	AREA TOTAL (AC) P F	AREA ID	LENGTH	WIDTH	CYCLES		AC/ CYCLE
I				30												
IA				30												
II				30												
III				30												

ENGINEER OF RECORD: SCOTT PETERSON, P.E.  
 P.E. LICENSE NUMBER 52740  
 FDOT DISTRICT IV  
 3400 WEST COMMERCIAL BLVD.  
 FORT LAUDERDALE, FL 33309  
 (954) 441-4000  
 scott.peterson@dot.state.fl.us

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 ROAD NO. COUNTY AIA BROWARD  
 FINANCIAL PROJECT ID 433688-6-52-01

10/12/2014 12:02:11 PM C:\g\mapro\433688\6-52-01\summary\_S040001.DWG  
 746523

**SUMMARY OF QUANTITIES**

SHEET NO. 50-2

# LANDSCAPE NOTES

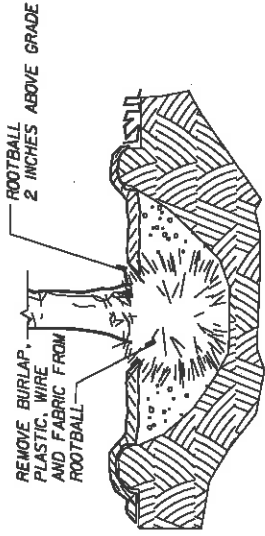
- 1) PRUNING IS REQUIRED DURING INSTALLATION AND THROUGHOUT THE PLANT ESTABLISHMENT PERIOD TO KEEP COCONUT TREES FREE OF FRUIT.
- 2) DESIGN SPEED IS 30 MPH.

DATE	BY	DESCRIPTION	REVISIONS
DATE	BY	DESCRIPTION	DATE

LANDSCAPE ARCHITECT OF RECORD, CERT. NO. 125838, AIA MEMBER  
 CERTIFICATE OF AUTHORIZATION #18434  
**KEITH and SCHNARS, P.A.**  
 6020 N. Andrews Ave., Ft. Lauderdale, FL 33309-3232 (954) 771-0100

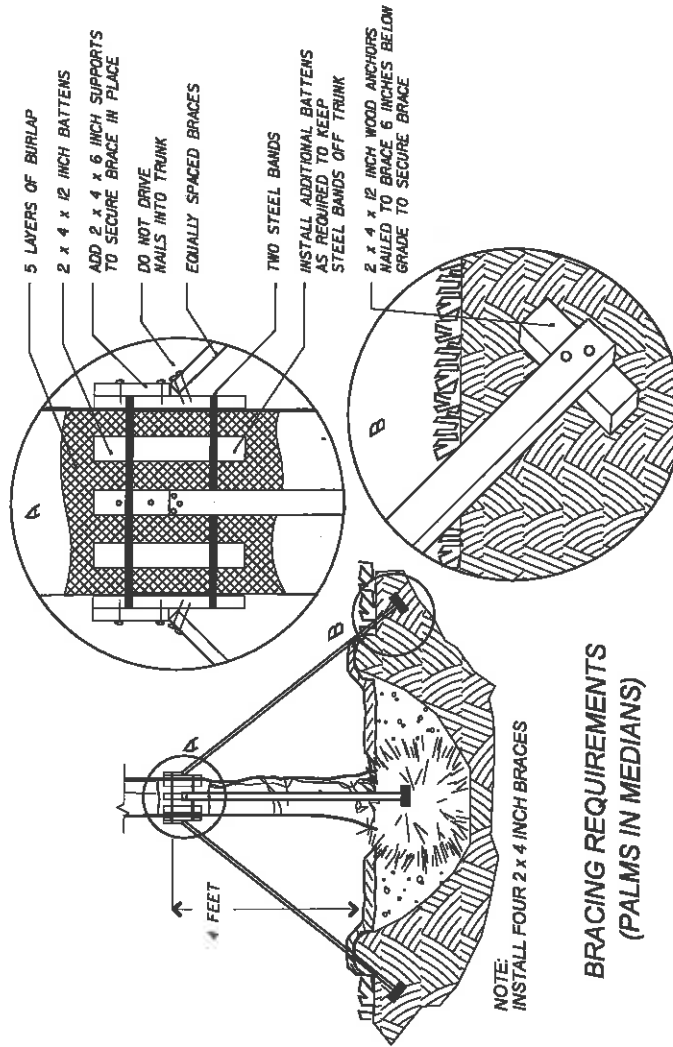
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 ROAD NO. A/A COUNTY BROWARD FINANCIAL PROJECT ID 433688-6-52-01

**LANDSCAPE NOTES**  
 SHEET NO. LD-5

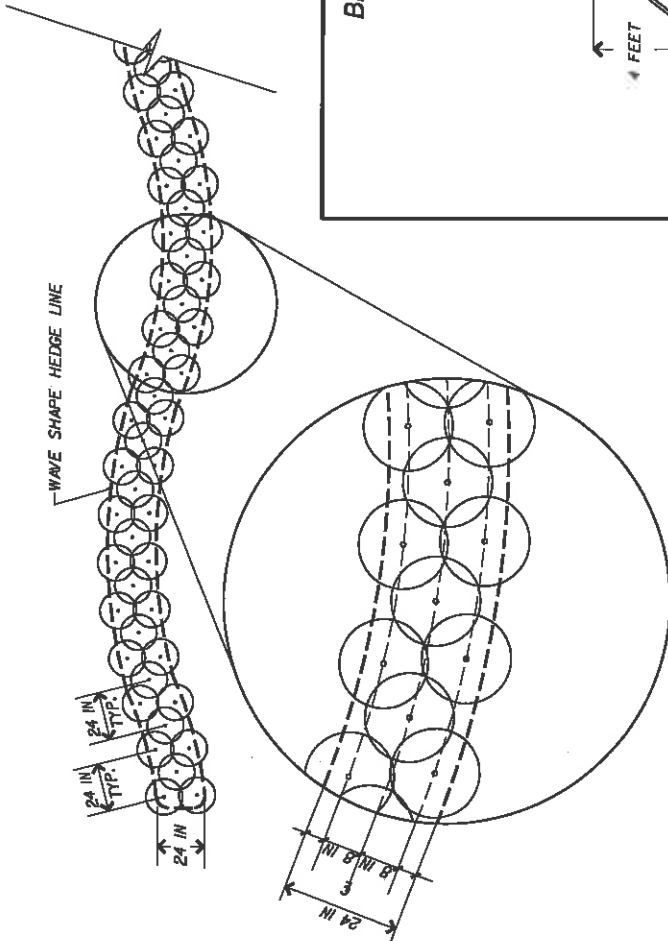


**PALM INSTALLATION REQUIREMENTS**  
NOT TO SCALE

**BRACING DETAILS REPLACE INDEX 544 BRACING DETAILS**  
NOT TO SCALE



**BRACING REQUIREMENTS (PALMS IN MEDIANS)**



**SILVER BUTTONWOOD WAVE HEDGE INSTALLATION DETAIL**  
NOT TO SCALE

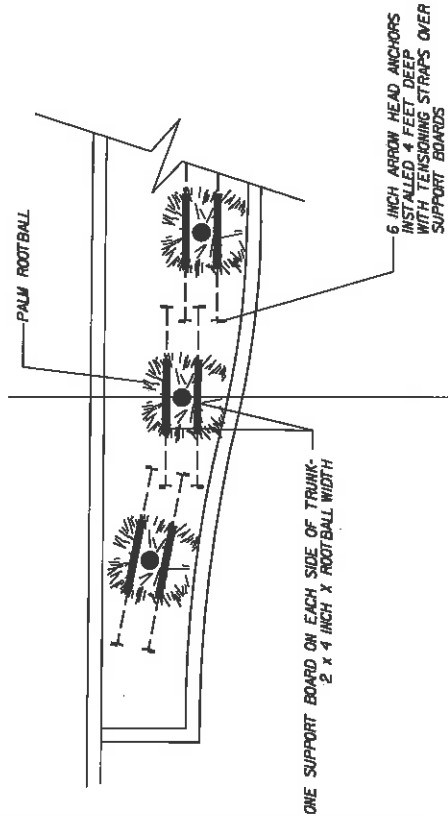


DATE	BY	DESCRIPTION	REVISIONS

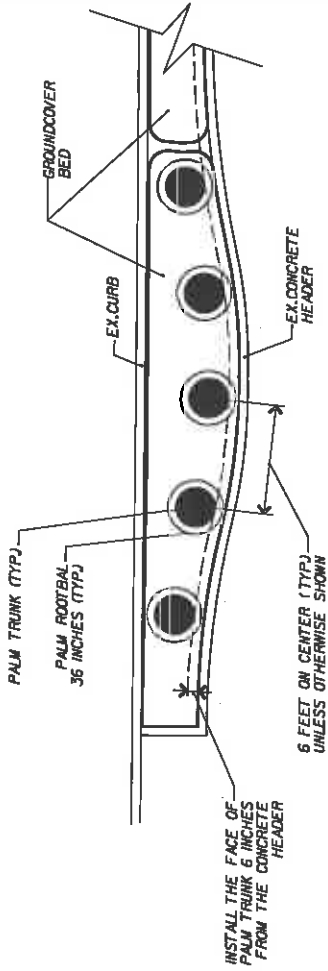
LADDERBUSH PROJECT (SOUTH COUNTY) SOUTH COUNTY DEPARTMENT OF TRANSPORTATION <b>KEITH and SCHNARS, P.A.</b> 6000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2132 (954)795-1818		ROAD NO. A/A COUNTY BROWARD FINANCIAL PROJECT ID 433698-6-52-01
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<b>LANDSCAPE DETAILS</b>		SHEET NO. LD-6 1/28/2025
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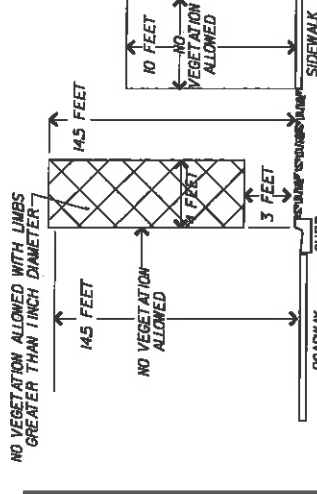
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 69G0-130M, F.A.C.



**PALM INSTALLATION IN SIDEWALK CUT-OUTS**  
NOT TO SCALE



NO VEGETATION ALLOWED WITH LIMBS GREATER THAN 1 INCH DIAMETER



**SIDEWALK PALM UNDERGROUND BRACING DETAIL**  
NOT TO SCALE

**MAINTENANCE RATING PROGRAM REQUIREMENTS**  
NOT TO SCALE

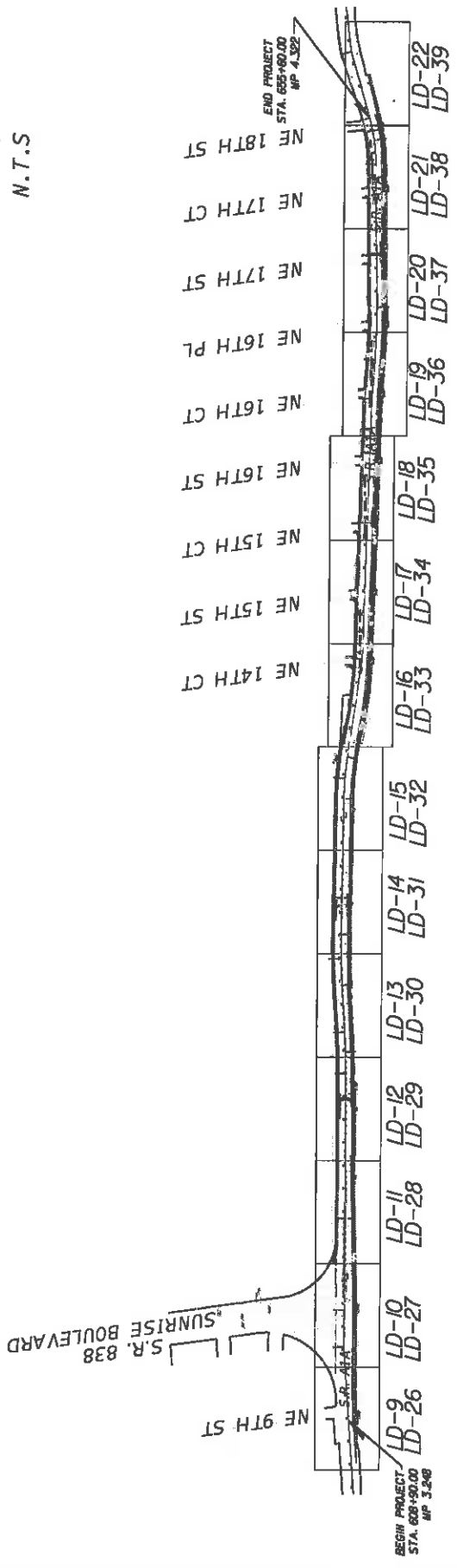
**BRACING DETAILS REPLACE INDEX 544 BRACING DETAILS**

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
KEITH and SCHNARS, P.A.		FINANCIAL PROJECT ID	
ROAD NO.	A/A	COUNTY	BROWARD
PROJECT NO.	433688-6-52-01		

**LANDSCAPE DETAILS**

SHEET NO. LD-7



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61B-03.01, F.A.C.

SHEET NO. LD-8

**SHEET LAYOUT**

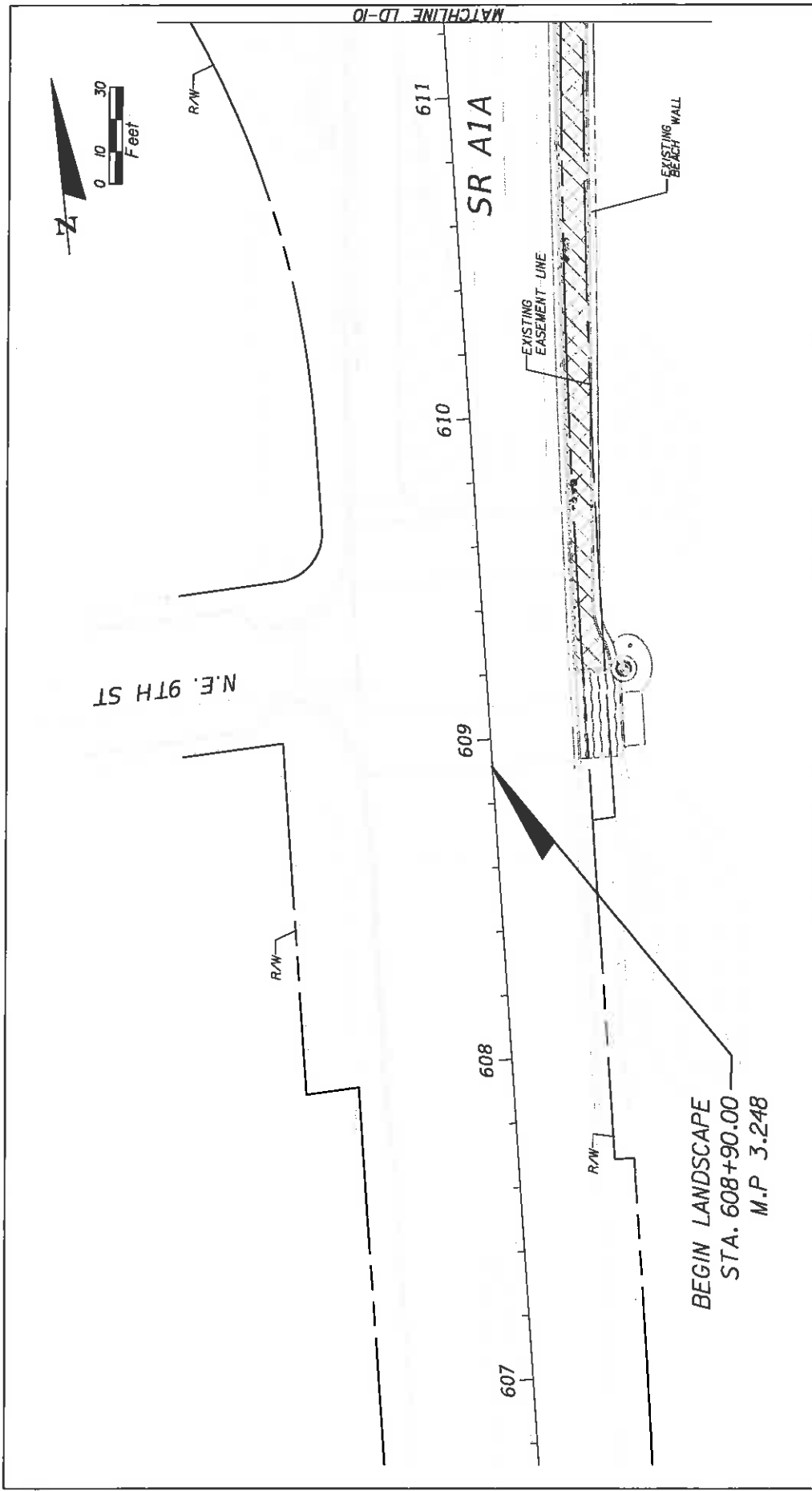
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 ROAD NO. A1A  
 COUNTY BROWARD  
 FINANCIAL PROJECT ID 433688-6-52-01

LANDSCAPE ARCHITECT OF RECORD: KEITH and SCHNARS, P.A.  
 8800 N. Ardmore Ave., Ft. Lauderdale, FL 33308-2132 (954)776-1818

REVISIONS	
DATE	DESCRIPTION

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DATE	BY	REVISIONS	DESCRIPTION

<b>PALMS</b> CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW) CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)		<b>SHRUBS</b> AB AECHMEA BLANCHETIANA 'RASPBERRY' AC ARACHIS GLABRATA CG CLUSIA GUTTIFERA 'WAHA' CES COMOCARPUS 'ERECTUS' 'SERICEUS' EG EYOLIVUS GLOMERATUS	
KEITH and SCHNARS, P.A. 8000 N. Andrews Ave., Ft. Lauderdale, FL 33308-2132 (954)776-1410		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY: BROWARD ROAD NO.: A/A FINANCIAL PROJECT ID: 433668-6-52-01	

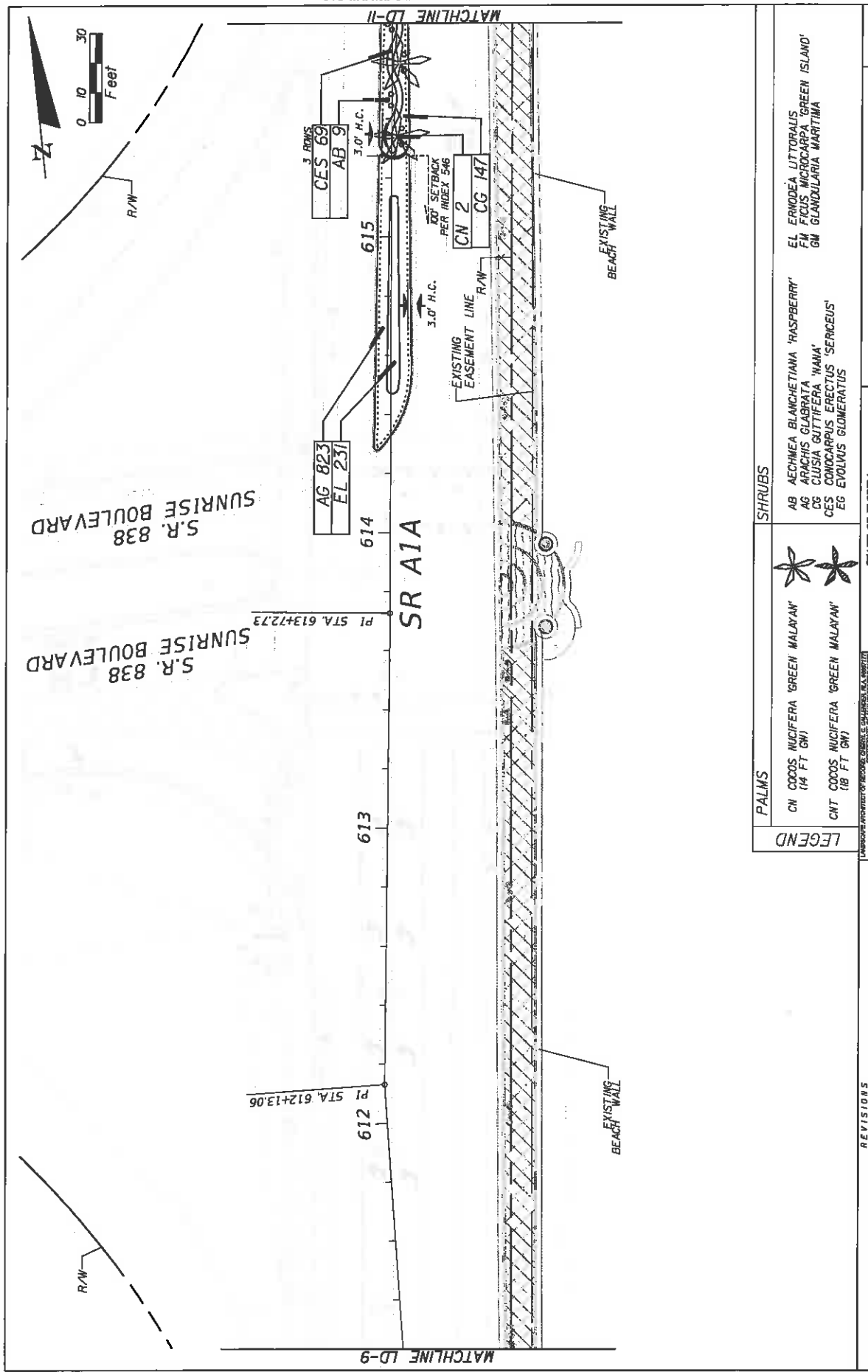
LANDSCAPE PLAN

EL ERNODEA LITTORALIS  
 FM FICUS MICROCARPA 'GREEN ISLAND'  
 GM GLANDULARIA MARTINA

LEGEND

7/2/2026

SHEET NO. LD-9

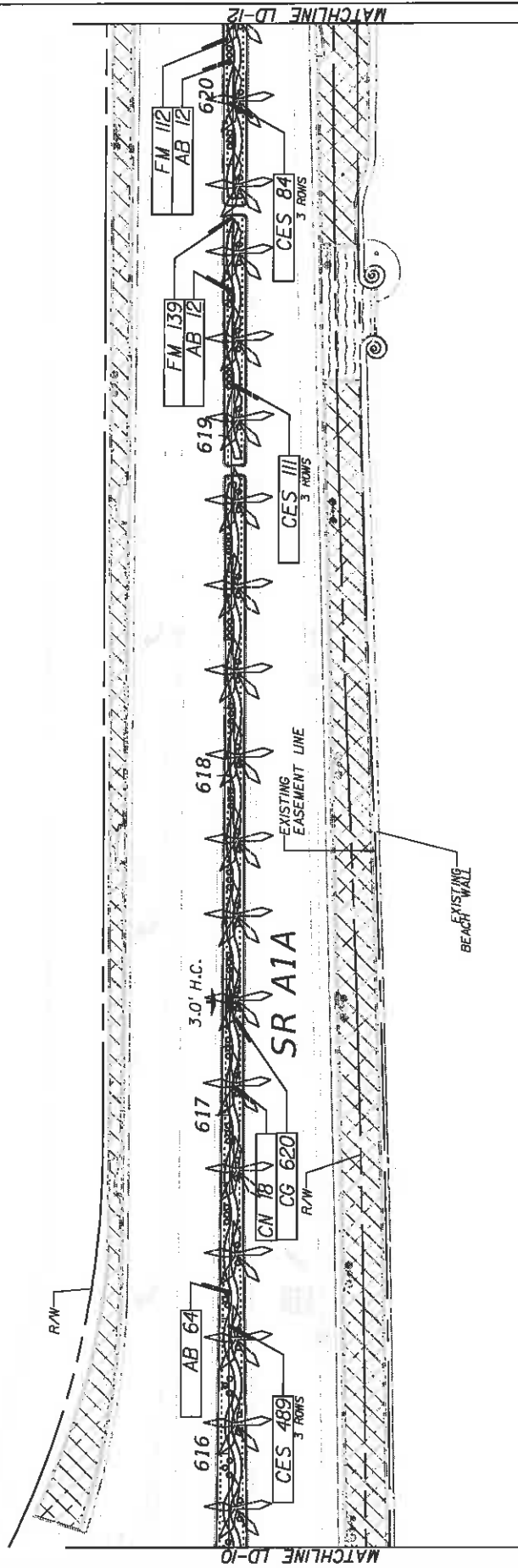
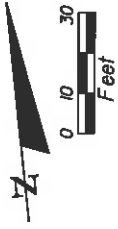


DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

<b>LEGEND</b>	
<b>PALMS</b> CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW) CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)	<b>SHRUBS</b> AB AECHMEA BLANCHETIANA 'RASPBERRY' AG ARACHIS GLABRATA CG CLUSIA GUTTIFERA 'WANA' CES CONOCARPUS ERECTUS 'SERICEUS' EG EVOLVUS GLOMERATUS
EL ERIODEA LITTORALIS FM FICUS MICROCARPA 'GREEN ISLAND' GN GLANDULARIA MARTINA	STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY: BROWARD ROAD NO.: A1A FINANCIAL PROJECT ID: 433608-6-52-01
<b>KEITH and SCHNARS, P.A.</b> LANDSCAPE ARCHITECTS OF RECORD, ORANGE PARK, FLORIDA, USA 0967115 CORPORATION OF FLORIDA REGISTERED PROFESSIONALS 6000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2150 (954)776-1010	
<b>LANDSCAPE PLAN</b>	
SHEET NO. LD-10	

7/19/2019 10:40:00 AM C:\Users\jgarcia\OneDrive\Documents\20190719\20190719.dwg 17/07/2019



LEGEND		SHRUBS	
	PALMS		RASPERRY
CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW)		AB AECHMEA BLAMCHETIANA	
CNT COCOS NUCIFERA 'GREEN MALAYAN' (16 FT GW)		AG ARACHIS GLABRATA	
		CG CLUSIA GUTTIFERA 'NANA'	
		CES CONOCARPUS ERECTUS 'SERICEUS'	
		EG EYOLIVUS GLOMERATUS	
		EL ERNODEA LITTORALIS	
		FM FICUS MICROCARPA 'GREEN ISLAND'	
		GM GLANDULARIA MARITIMA	

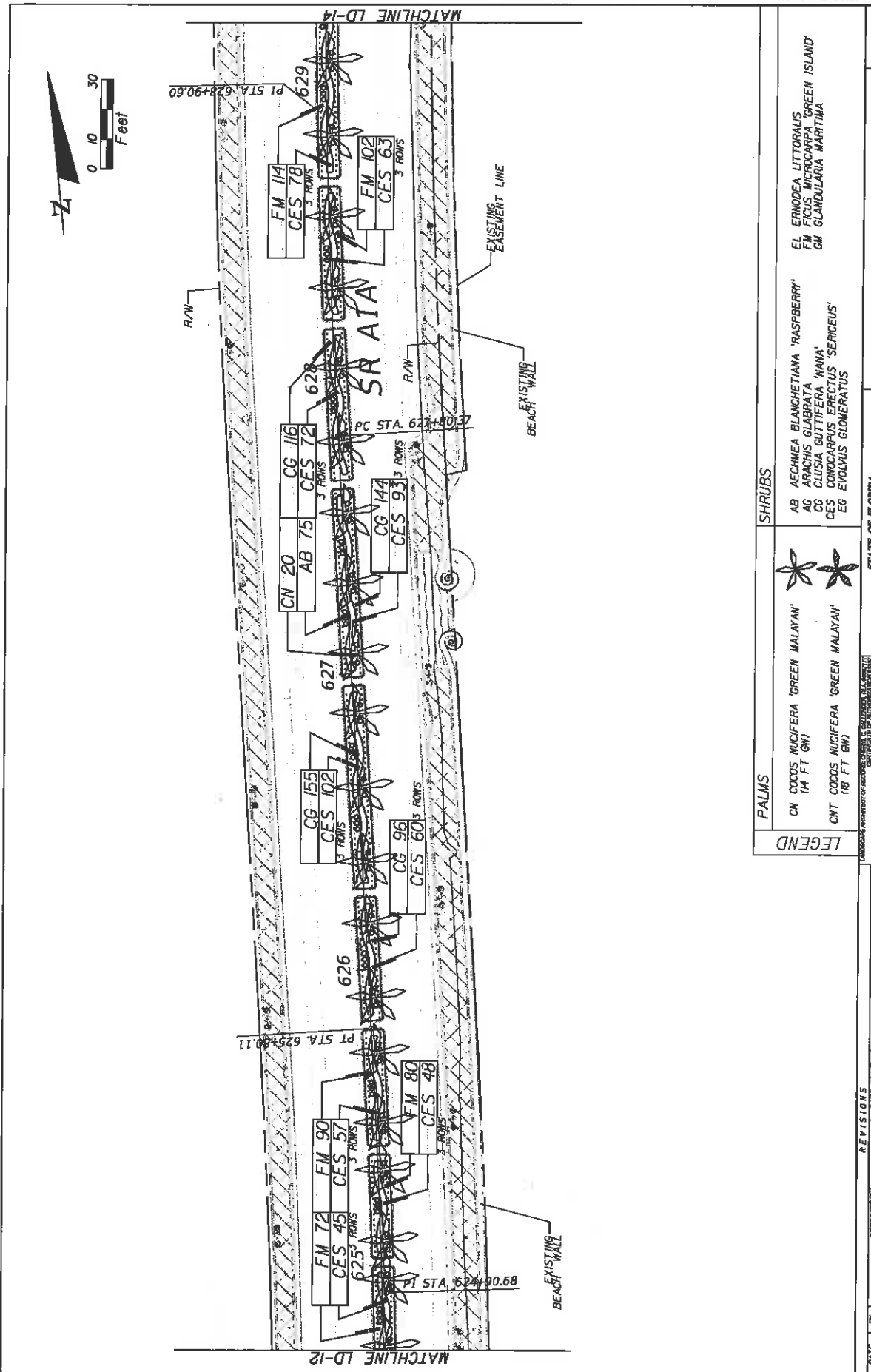
STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A/A COUNTY BROWARD FINANCIAL PROJECT ID 433688-6-52-01		SHEET NO. LD-H
KEITH and SCHNARS, P.A. 8800 N. Ardmore Ave., Ft. Lauderdale, FL 33308-2132 (954)774-1616		

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

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7/28/2025



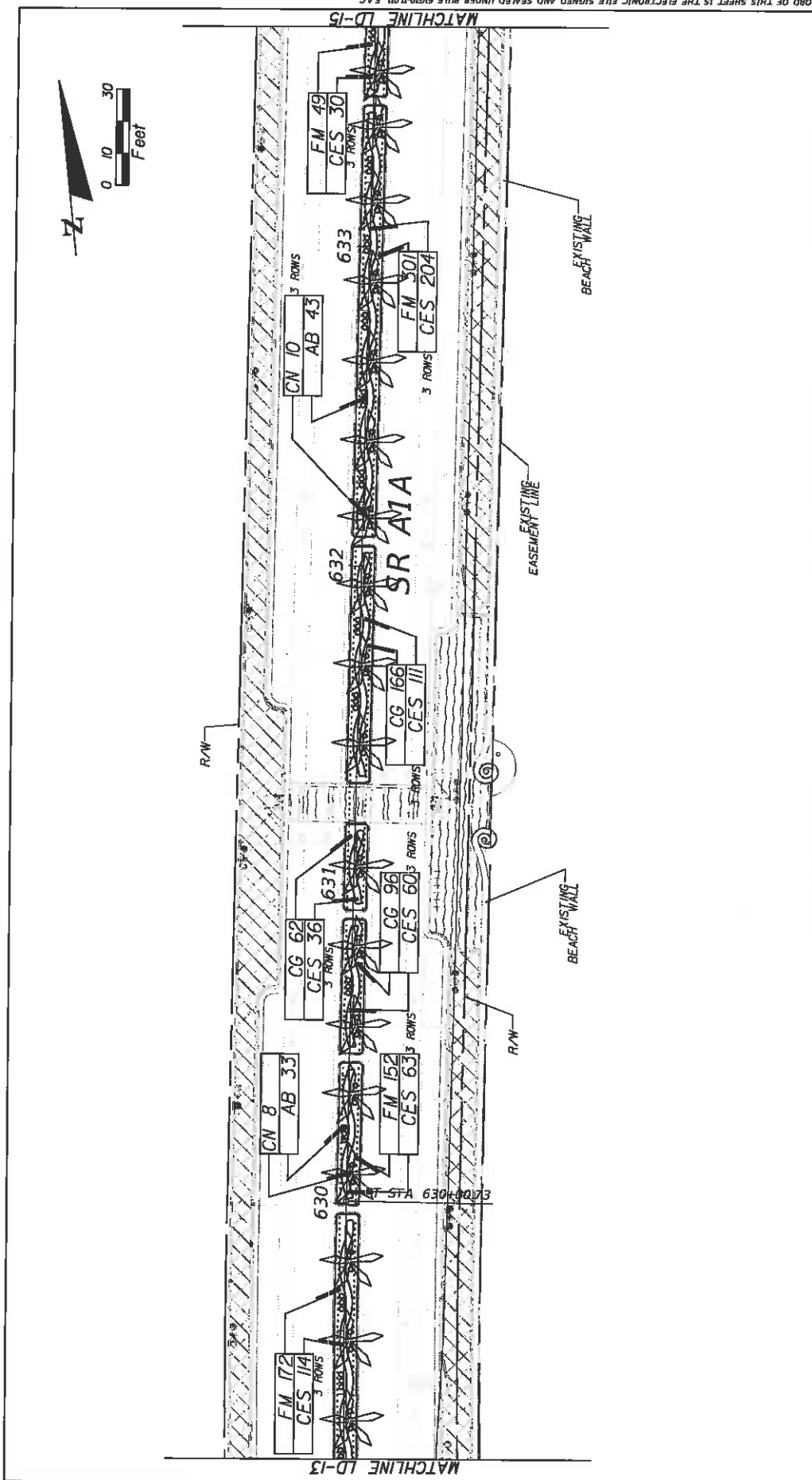


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REVISIONS		DATE	BY	DESCRIPTION

<b>LEGEND</b> <b>PALMS</b> CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW) CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)	 SHRUBS AB AECHMEA BLANCHETIANA 'RASPBERRY' AG APACHIS GLABRATA 'NANA' CG CLUSIA GUTTIFERA 'NANA' CES CONOCARPUS ERECTUS 'SERICEUS' EG EVOLVUS GLOMERATUS	STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A COUNTY BROWARD PROJECT ID 433688-6-52-01	SHEET NO. LD-13 7/28/2016
		<b>LANDSCAPE PLAN</b>	



DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

**LEGEND**

**PALMS**  
 CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW)  
 CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)

**SHRUBS**  
 AB AECHMEA BLANCHETIANA 'RASPBERRY'  
 AG ARACHIS GLABRATA 'WANA'  
 CG CLUSIA GUTTIFFERA 'WANA'  
 CES CONOCARPUS ERECTUS 'SERICEUS'  
 EG EVOLVUS GLOMERATUS

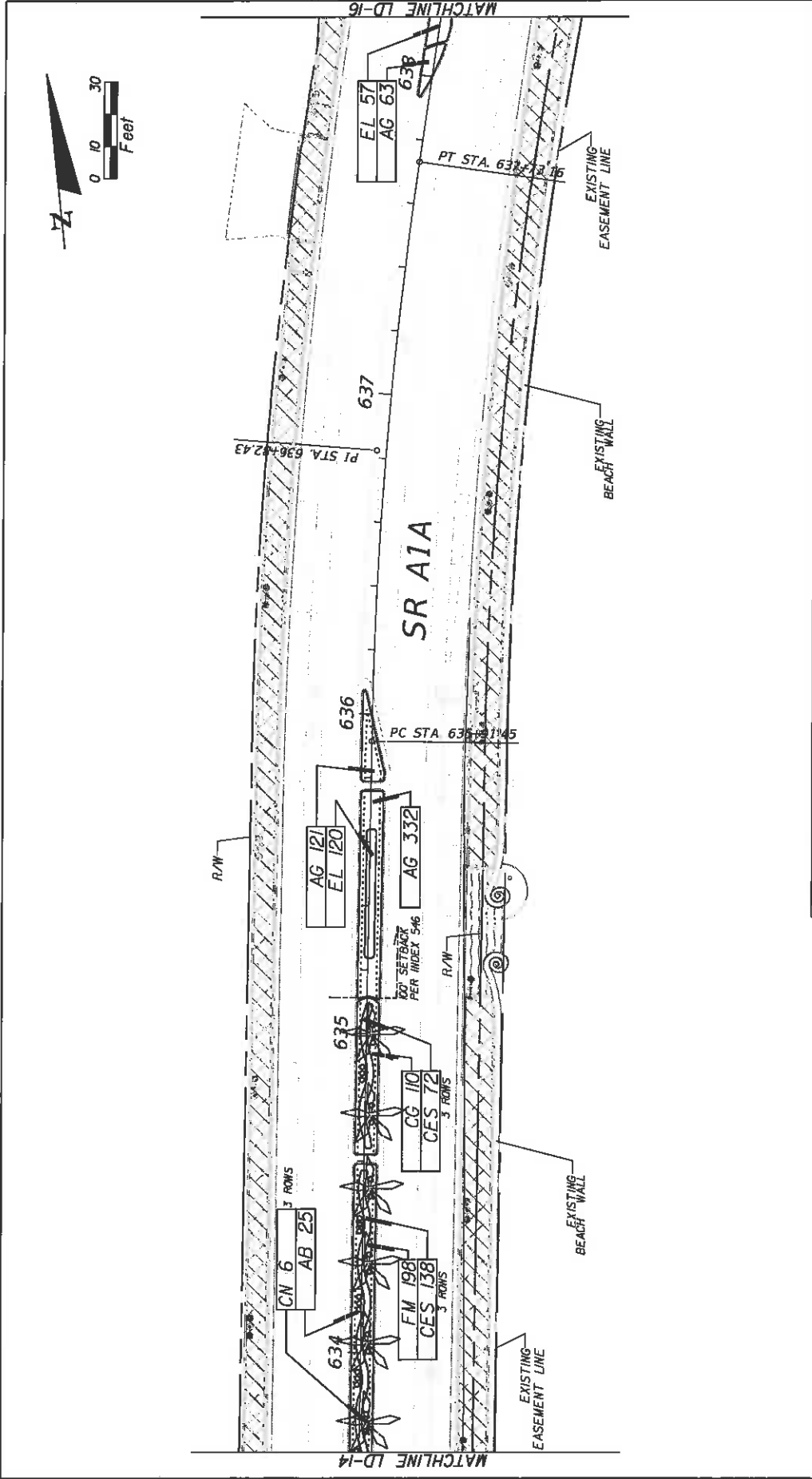
**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**  
 ROAD NO. A1A COUNTY BROWARD FINANCIAL PROJECT ID 433688-6-52-01

**KEITH and SCHNARS, P.A.**  
 LANDSCAPE ARCHITECTS OF RECORD  
 8000 N. Andrews Ave., Ft. Lauderdale, FL 33308-2752 (954)778-8181

**LANDSCAPE PLAN**

**SHEET NO. LD-14**

1/28/2018



REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

**SR A1A**

**LANDSCAPE PLAN**

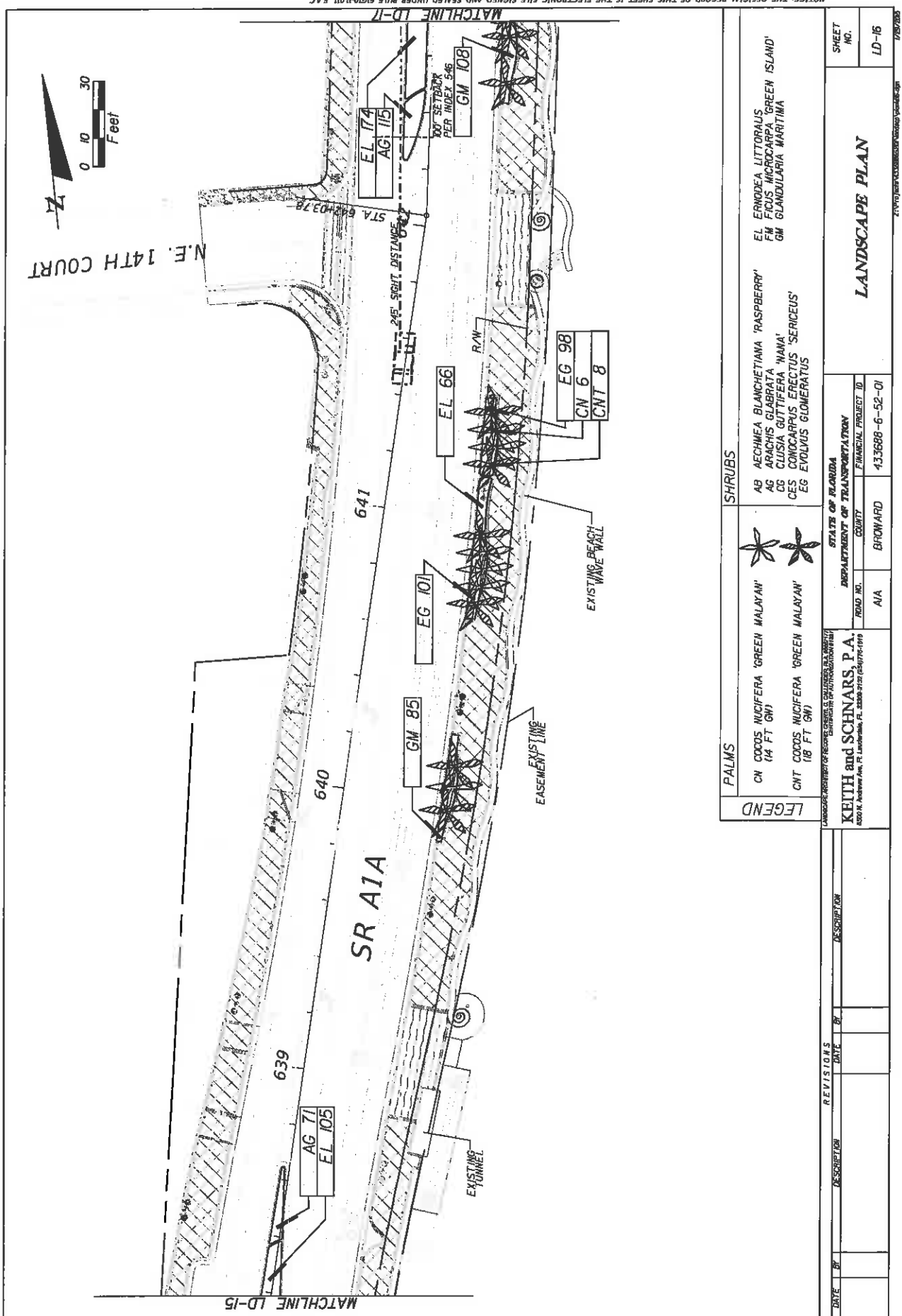
**LEGEND**

<b>PALMS</b>	CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW) CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)	<b>SHRUBS</b>	AB AECHMEA BLANCHETTIANA 'RASPBERRY' AG ARACHIS GLABRATA CG CLUSIA GUTTIFERA 'NANA' CES CONOCARPUS ERRECTUS 'SERICEUS' EG EYOLIVUS GLOMERATUS
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A COUNTY BROWARD PROJECT NO. 433688-6-52-01		SHEET NO. LD-15
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KEITH and SCHNARS, P.A.  
 LANDSCAPE ARCHITECTS & CIVIL ENGINEERS, INC.  
 6000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2152 (954)776-6118

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 Z:\PROJ\SR\_A1A\SR\_A1A\_LANDSCAPE\_PLAN.dwg 12/22/2025



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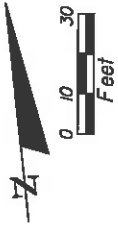
LEGEND		SHRUBS		PALMS	
	AB AECHMEA BLANCHETIANA 'RASPBERRY'		CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT. GN)	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 433688-6-52-01	
	EL ERNODEA LITTORALIS		CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT. GN)	LANDSCAPE ARCHITECT OF RECORD: KEITH and SCHNARS, P.A. 2800 N. ANDERSON AVE., FT. LAUDERDALE, FL 33308-7102 (204)774-1919	
	FM FICUS MICROCARPA 'GREEN ISLAND'			Landscape Architecture: KEITH and SCHNARS, P.A.	
	GM GLANDULARIA MARIITIMA			Landscape Architecture: KEITH and SCHNARS, P.A.	
	CG CLUSIA GUTTIFERA 'NANA'			Landscape Architecture: KEITH and SCHNARS, P.A.	
	CES CONOCARPUS ERECTUS 'SERICEUS'			Landscape Architecture: KEITH and SCHNARS, P.A.	
	EG EVOLVUS GLOMERATUS			Landscape Architecture: KEITH and SCHNARS, P.A.	
	EG 98			Landscape Architecture: KEITH and SCHNARS, P.A.	
	CN 6			Landscape Architecture: KEITH and SCHNARS, P.A.	
	CNT 8			Landscape Architecture: KEITH and SCHNARS, P.A.	

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

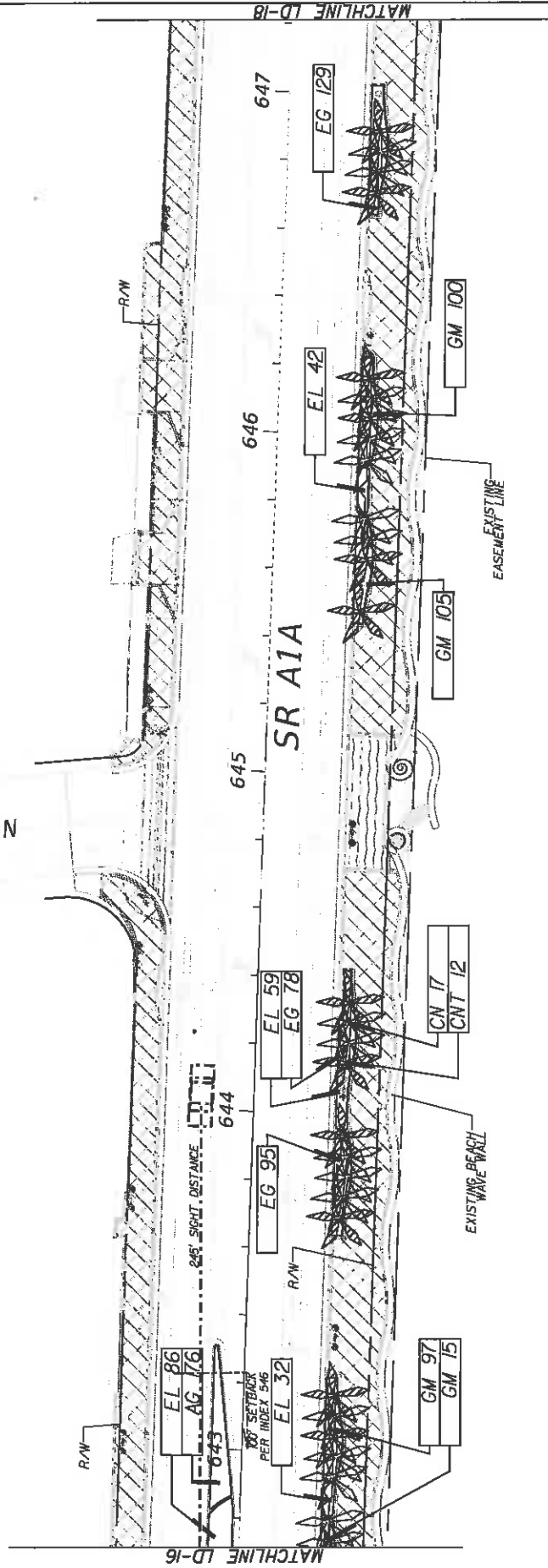
SHEET NO. LD-16

LANDSCAPE PLAN





N.E. 15TH STREET

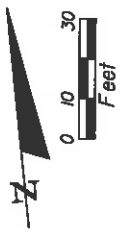
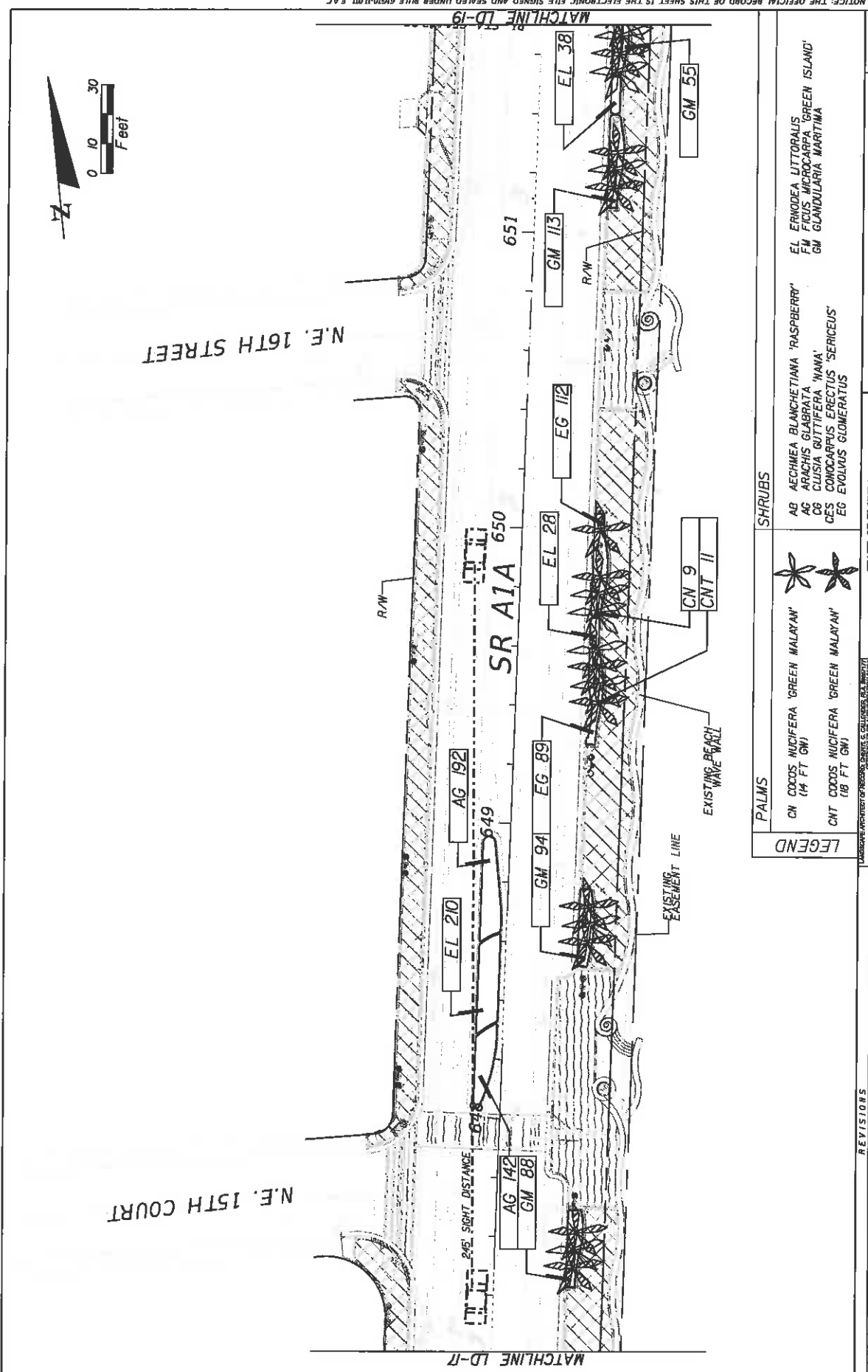


REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

<b>PALMS</b> CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW) CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)		<b>SHRUBS</b> AB AECHMEA BLANCHETIANA 'RASPBERRY' AG ARACHIS GLABRATA 'NANA' CG CLUSIA GUTTIFERA 'NANA' CES COCCOARPUS ERECTUS 'SERICEUS' EG EVOLVUS GLOMERATUS	
<b>LEGEND</b> <small>LANDSCAPE ARCHITECT OF RECORD: CAROLINA SPAHR/ARCHITECT</small> <b>KEITH and SCINARS, P.A.</b> <small>6801 N. Ardmore Ave., Ft. Lauderdale, FL 33309-2100 (954)774-1810</small>		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A COUNTY BROWARD PROJECT ID 433688-6-52-01	
LANDSCAPE ARCHITECT OF RECORD: CAROLINA SPAHR/ARCHITECT <b>KEITH and SCINARS, P.A.</b> <small>6801 N. Ardmore Ave., Ft. Lauderdale, FL 33309-2100 (954)774-1810</small>		<b>LANDSCAPE PLAN</b>	
MATCHLINE LD-16		MATCHLINE LD-18	
SHEET NO. LD-17		1/28/2018	

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PALMS		SHRUBS	
CN	COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW)	AG	AECHMEA BLANCHETTIANA 'RASPBERRY'
CNT	COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)	AG	ARACHIS GLABRATA
		CG	CUSCUTA GUTTIFERA 'NANA'
		CGS	CONOCARPUS ERECTUS 'SERICEUS'
		EG	EVOLVUS GLOMERATUS

LEGEND	
	CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW)
	CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)

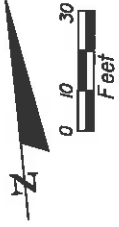
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID 433698-6-52-01	
ROAD NO. A1A	COUNTY BROWARD	PROJECT NO. 650	
KEITH and SCHNARS, P.A. <small>2000 N. Andrews Ave., Ft. Lauderdale, FL 33304-2128 (954) 776-6100</small>			

DATE	BY	REVISIONS	DESCRIPTION

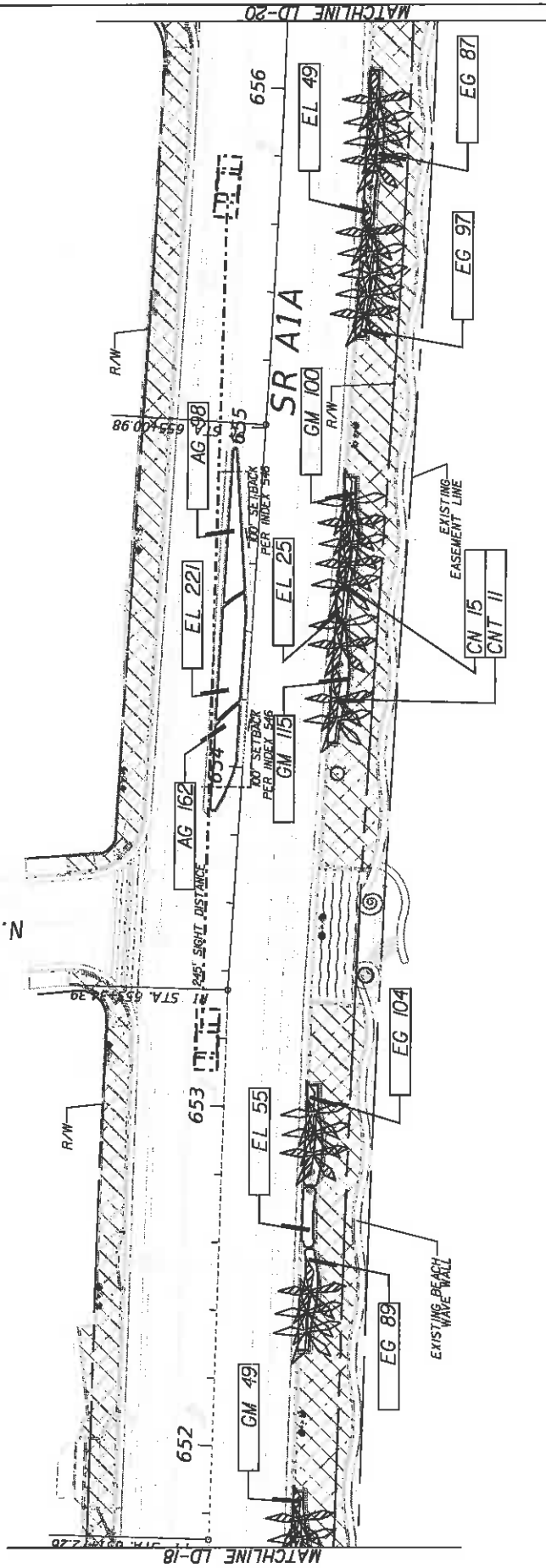
LANDSCAPE PLAN

SHEET NO.  
LD-18

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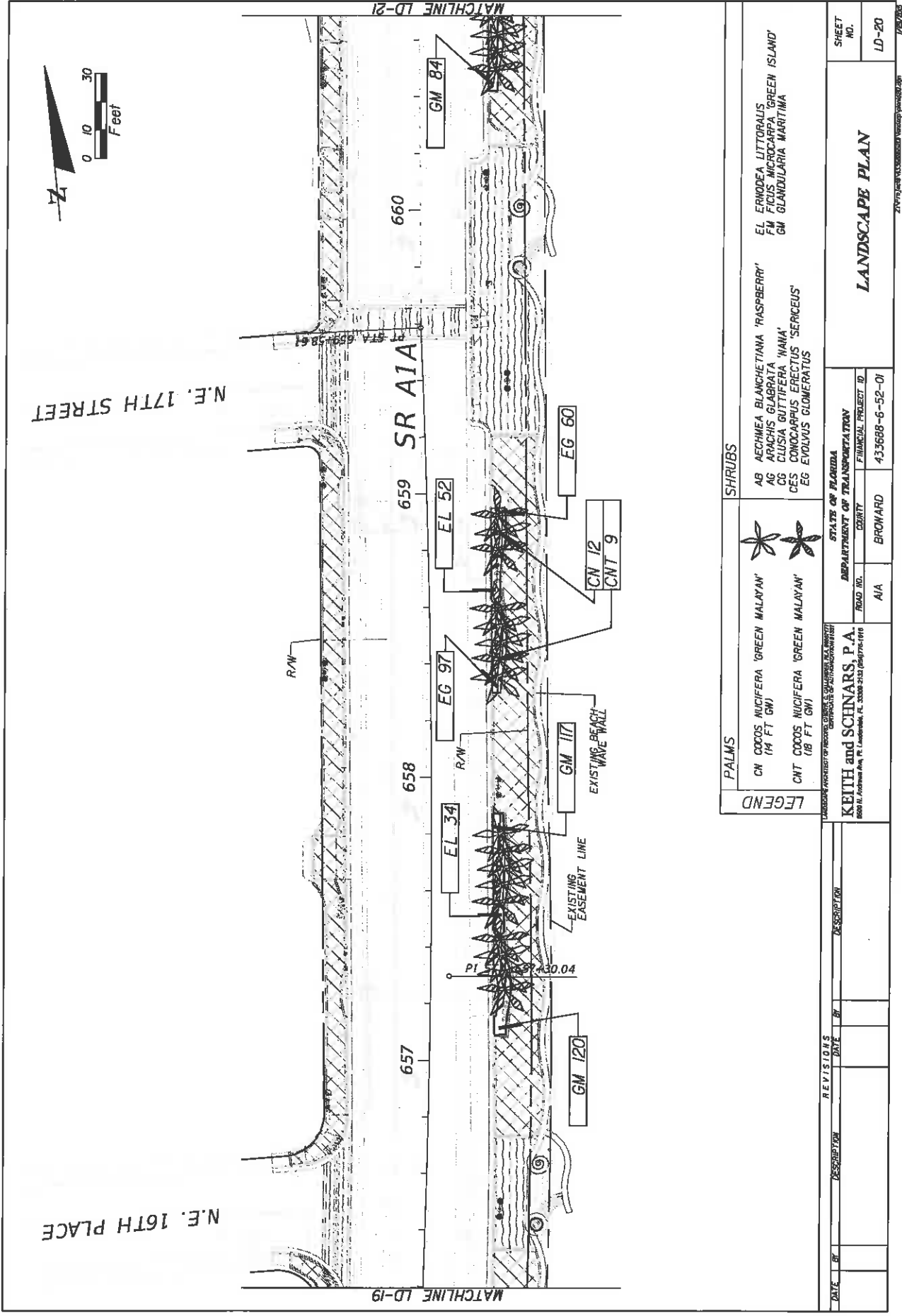


N.E. 16TH COURT



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LEGEND		SHRUBS		PALMS	
CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT. GW) CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT. GW)		AB AECHMEA BLANCHETIANA 'RASPBERRY' AG APACHIS GLABRATA 'NANA' CG CLUSIA GUTTIFERA 'NANA' CES CONOCARPUS ERECTUS 'SERICEUS' EG EVOLVUS GLOMERATUS		CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT. GW) CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT. GW)	
LANDSCAPE ARCHITECT OF RECORD: KEITH AND SCENARS, P.A. <small>6800 N. Andrus Ave., Ft. Lauderdale, FL 33308-2132 (954) 775-1818</small>		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY: BROWARD ROAD NO.: A/A FINANCIAL PROJECT ID: 433688-6-52-01		EL ERMODEA LITTORALIS FM FICUS MICROCARPA 'GREEN ISLAND' GM GLANDULARIA MARITIMA	
REVISIONS DATE BY DESCRIPTION					
SHEET NO. LD-19					



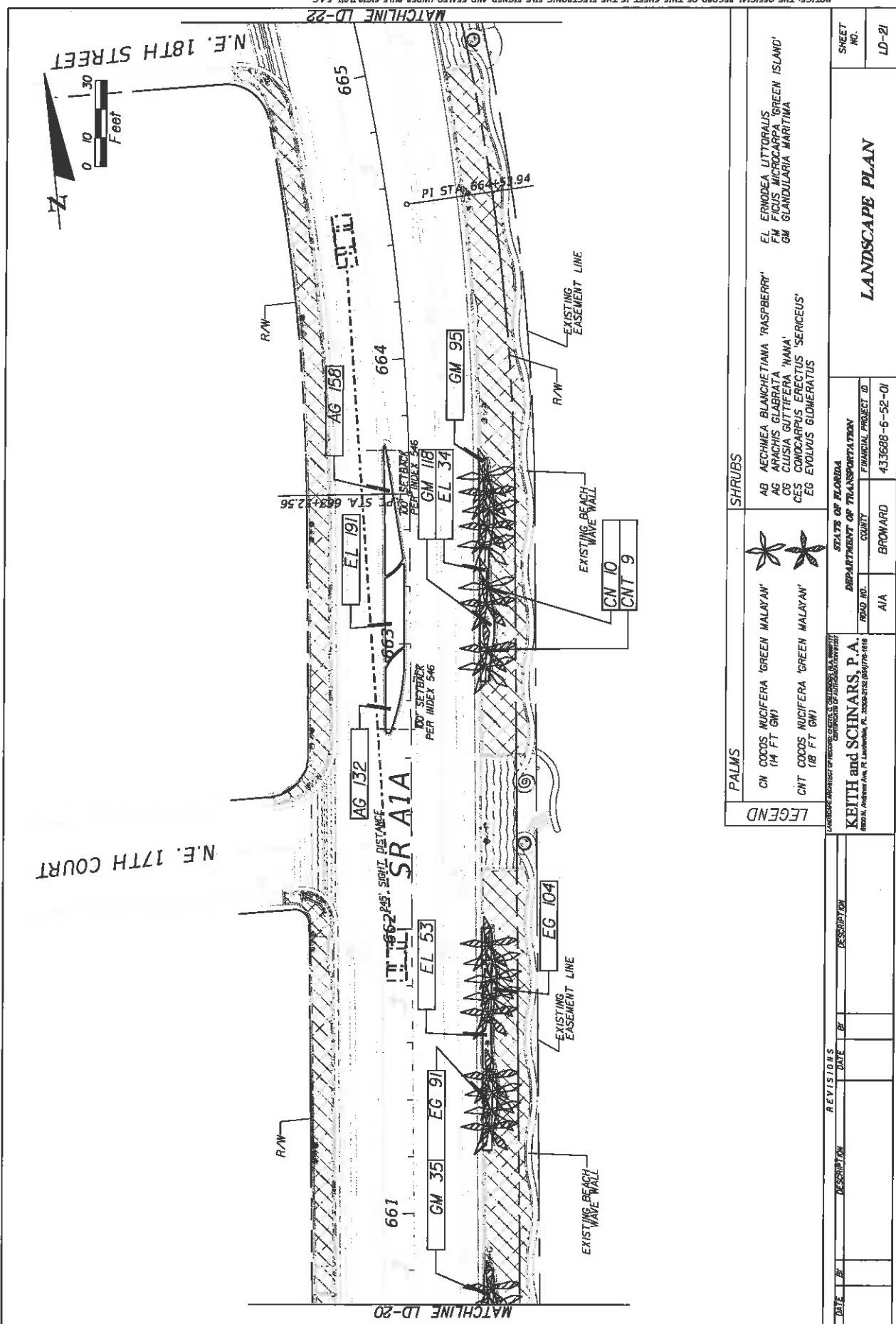
N.E. 17TH STREET

N.E. 16TH PLACE

DATE	BY	DESCRIPTION	REVISIONS

PALMS CN COCOS NUCIFERA 'GREEN MALYAN' (14 FT GW) CNT COCOS NUCIFERA 'GREEN MALYAN' (18 FT GW)		SHRUBS AB ACHEMIA BLANCHETTIANA 'RASPBERRY' AG ARACHIS GLABRATA 'WANA' CG CLUSIA GUTTIFERA 'WANA' CES CONOCARPUS ERRECTUS 'SERICEUS' EG EVOLVUS GLOMERATUS	
KEITH and SCHNARS, P.A. 8800 N. Andrews Ave., Ft. Lauderdale, FL 33308-2152 (954) 776-1910		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A COUNTY BROWARD PROJECT NO. 43-3688-6-52-01	
LANDSCAPE ARCHITECT OF RECORD: GREGORY S. SCHNARS, P.A. (REGISTERED)		LANDSCAPE ARCHITECT: GREGORY S. SCHNARS, P.A. (REGISTERED)	
<b>LANDSCAPE PLAN</b>			
SHEET NO. LD-20			7/28/2024



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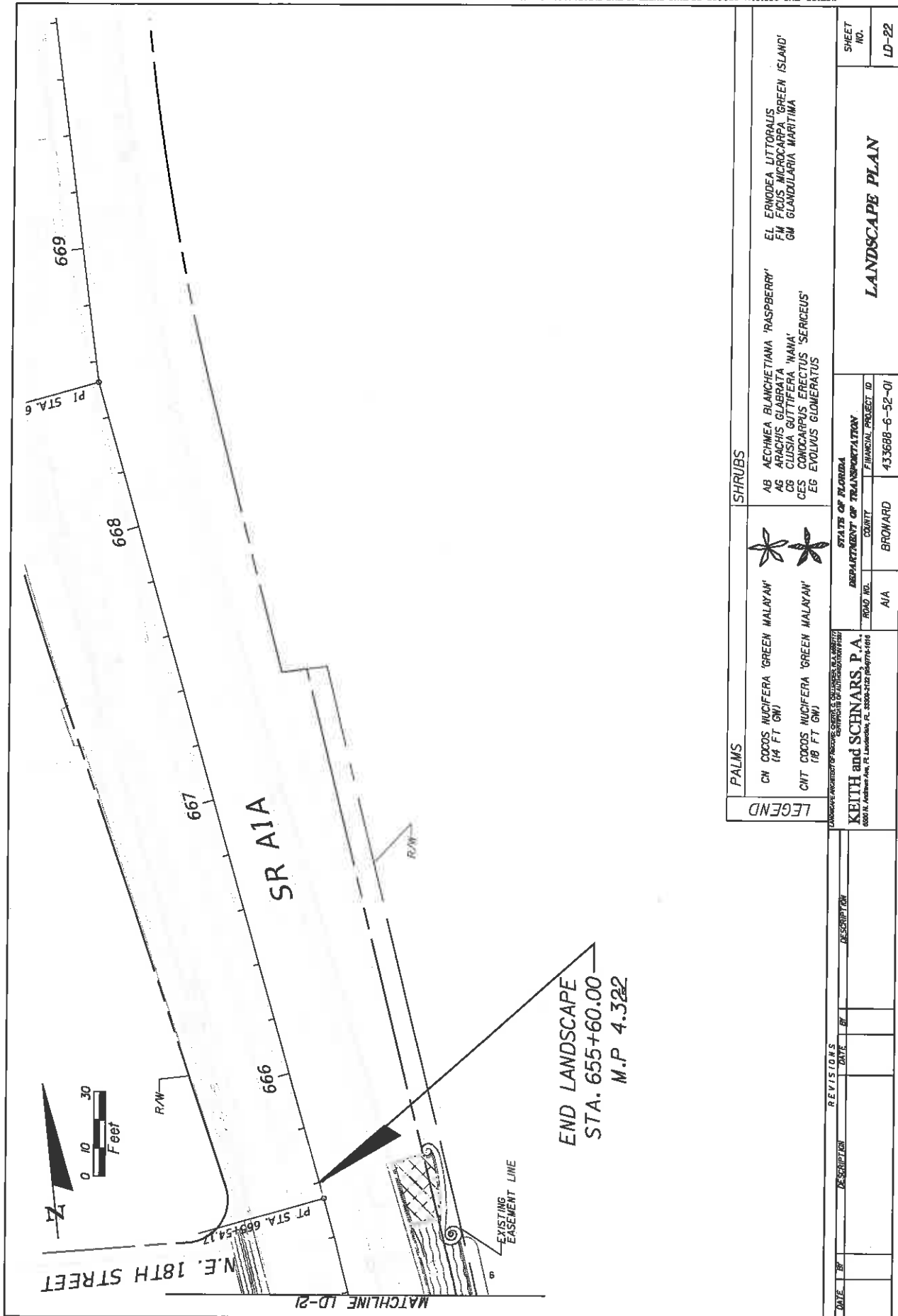
LEGEND		SHRUBS		PALMS	
	CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW)		AG AECHEA BLANCHETIANA 'RASPBERRY'		CN COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)
	CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)		AG APACHIS GLABRATA 'NANA'		CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)
	AG ERNDEA LITTORALIS		AG ARACHIS GUTTIFERA 'NANA'		CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)
	GM FICUS MICROCARPA 'GREEN ISLAND'		CG CLUSIA GUTTIFERA 'NANA'		CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)
	GM GLANDULARIA MARITIMA		CG CONCARPUS ERECTUS 'SERICEUS'		CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)
	EG EVOLVUS GLOMERATUS		EG EVOLVUS GLOMERATUS		CNT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)

DATE	BY	DESCRIPTION	REVISIONS

LANDSCAPE ARCHITECT OF RECORD: KEITH and SCINARS, P.A.  
 8800 N. ANDERSON AVE, P. LANDOWAY, FL 32064-2102 (850)776-6118

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 COUNTY: BROWARD  
 ROAD NO.: A1A  
 FINANCIAL PROJECT ID: 433688-6-52-01

LANDSCAPE PLAN  
 SHEET NO. LD-21  
 7/28/2018



LEGEND		SHRUBS		PALMS	
	CN COCOS NUCIFERA 'GREEN MALAYAN' (14 FT GW)		AB AECHEMEA BLANCHETIANA 'RASPBERRY'		EL ERNODEA LITTORALIS
	CHT COCOS NUCIFERA 'GREEN MALAYAN' (18 FT GW)		AG ARACHIS GLABRATA 'NANA'		FM FICUS MOPANPA 'GREEN ISLAND'
			CS CUSCUTA GUTTIFERA 'NANA'		GM GLANDULIFERA MARTIMA
			CES COMOCARPUS ERRECTUS 'SERICEUS'		
			EG EYOLUUS GLOMERATUS		

DATE	BY	REVISIONS	DESCRIPTION

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 ROAD NO. A1A  
 COUNTY BROWARD  
 FINANCIAL PROJECT ID 433688-6-52-01

LANDSCAPE ARCHITECT OF RECORD: KEITH and SCHNARS, P.A.  
 6001 N. Andrews Ave., Ft. Lauderdale, FL 33309-2122 (954) 774-1616

LANDSCAPE PLAN

SHEET NO. LD-22

1/28/2025

IRRIGATION TABULATION OF QUANTITIES		
ITEM	SPECIFICATION	UNIT QUANTITY
CONTROLLER	RAINBIRD TBOS II - 1 STATION CONTROL MODULE	EA 10
RAIN SENSOR	RAINBIRD RSD-C&X RAIN SENSOR	EA 10
ELECTRIC VALVES	RAINBIRD 1 INCH P&B VALVE WITH TBOS POTTED LATCHING SOLENOIDS	EA 10
BACKFLOW PREVENTER	WILKINS PVB	EA 10
PVB LOCK	CABLEGUARD SC75-200	EA 10
VALVE BOX	FIBRELYTE TIER 8, 13 IN X 24 IN X 12 IN DEEP VALVE BOX	EA 10
ZONE GATE VALVES	NIBCO MODEL T-311-Y, MATCH LINE SIZE	EA 10
CONTROL WIRE	14 GAUGE	LF 100
#57 ROCK	BELOW VALVE BOXES PER DETAIL	CF 35
FILTER FABRIC	TO CONTAIN THE GRAVEL UNDER THE VALVE BOXES PER DETAIL	SF 80
MAIN LINE	SCHEDULE 40	LF 100
LATERAL LINE	3/4 INCH TO 2 INCH PVC SCHEDULE 40	LF 5700
SPRAY BODY	RAINBIRD 1812 PRS	EA 557
SPRAY NOZZLES	RAINBIRD 5 SERIES	EA 47
	RAINBIRD 8 SERIES	EA 5
	RAINBIRD SQ, 4FT X 8FT HALF	EA 8
	RAINBIRD SQ, 8FT X 8FT FULL	EA 443
	RAINBIRD 15 STRIP SERIES, 15EST	EA 38
	RAINBIRD 15 STRIP SERIES, 15SST	EA 5
	RAINBIRD 15 STRIP SERIES, 15CST	EA 11
RISER ASSEMBLY	PER DETAIL	EA 283

DATE		REVISIONS	DESCRIPTION	
LANDMARK ARCHITECTURE OF RECORD, 5000 N.W. 11TH AVENUE, SUITE 100, MIAMI, FL 33150 KEITH and SCHNARS, P.A. 6000 N. Andrews Ave., Ft. Lauderdale, FL 33309-4132 (954)78-1818 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY PROJECT ID A1A BROWARD 433688-6-52-01				
IRRIGATION			TABULATION OF QUANTITIES	
SHEET NO.			LD-23	

## IRRIGATION NOTES

- 1) VERIFY SITE CONDITIONS BEFORE BIDDING. INSTALLATIONS MAY REQUIRE ADDITIONAL EQUIPMENT FOR SPECIFIC SITE CONDITIONS.
- 2) SYSTEM DESCRIPTION:  
THESE ARE CLOCK START (BATTERY) SYSTEMS USING EXISTING MUNICIPAL WATER METERS.
- 3) BEFORE THE PRECONSTRUCTION MEETING, SUBMIT SHOP DRAWINGS/MANUFACTURES PRODUCT SHEETS FOR EACH ITEM SPECIFIED.
- 4) AS-BUILT PLANS:  
PREPARE AS-BUILT PLANS AS THE WORK PROGRESSES, INDICATING THE ACTUAL LOCATION OF EQUIPMENT. KEEP THE AS-BUILT PLAN SET ON SITE DURING CONSTRUCTION. SUBMIT FINAL AS-BUILT TO THE LANDSCAPE ARCHITECT.
- 5) PLAN DEVIATIONS:  
PLAN LAYOUT IS SCHEMATIC FOR GRAPHIC CLARITY. INSTALL EQUIPMENT IN PERVIOUS AREAS, EXCEPT WHERE SLEEVING IS INDICATED. ROUTE PIPES TO AVOID TREES OR OTHER CONFLICTS. NOTIFICATION IS REQUIRED WHEN THESE ISSUES ARE ENCOUNTERED. FIELD ADJUSTMENTS REQUIRE APPROVAL.
- 6) TRENCHING AND PIPE INSTALLATION AND APPROVAL:  
BEFORE BACKFILLING TRENCHES, REQUEST A REVIEW OF THE PIPE INSTALLATION.  
PERFORM DIRECTIONAL BORING WHERE REQUIRED.  
  
BACKFILL IN ACCORDANCE WITH ASTM D2774, FREE OF STONES AND ROCKS LARGER THAN 1 ½ INCH IN DIAMETER.  
  
MAKE PVC SOLVENT WELD CONNECTIONS IN ACCORDANCE WITH ASTM D2855. APPLY PURPLE COLORED PVC PRIMER IN ACCORDANCE WITH ASTM F656. APPLY PVC CEMENT IN ACCORDANCE WITH ASTM D2564.
- 7) ADJUST HEAD HEIGHT, ARC, AND RADIUS SETTINGS TO PREVENT OVERSPRAY.
- 8) THE COST OF WATER THROUGHOUT CONSTRUCTION AND THE ESTABLISHMENT PERIOD IS THE RESPONSIBILITY OF THE CITY. CITY CONTACT: MARK ALMY, PARKS SUPERVISOR, 954-828-5869

R E V I S I O N S	
DATE	DESCRIPTION

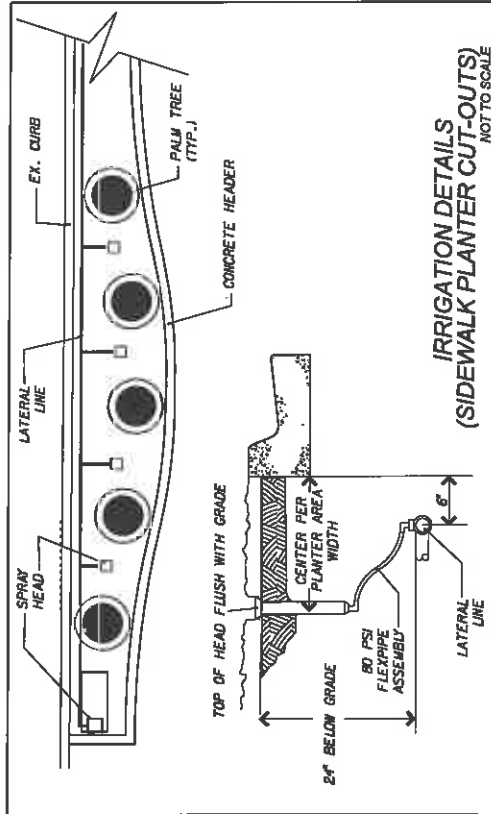
LANDSCAPE ARCHITECT OF RECORD: **KEITH and SCHNARS, P.A.**  
 6800 N. Andrews Ave., Ft. Lauderdale, FL 33309-5152 (954)776-1516  
 CERTIFICATE OF AUTHORIZATION

STATE OF FLORIDA	DEPARTMENT OF TRANSPORTATION	COUNTY	FINANCIAL PROJECT ID
		BROWARD	433608-6-52-01
ROAD NO.	A/A		

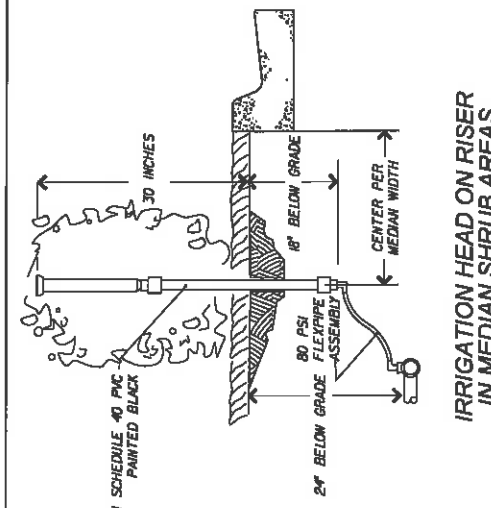
**IRRIGATION NOTES**

SHEET NO. LD-24

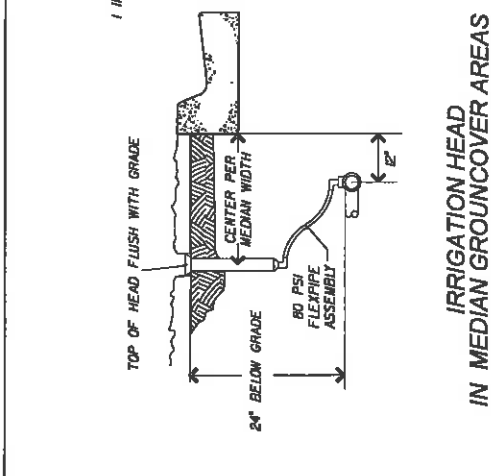




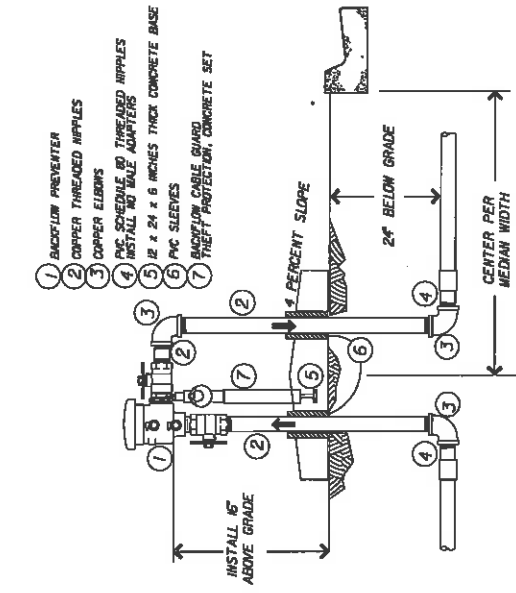
**IRRIGATION DETAILS  
(SIDEWALK PLANTER CUT-OUTS)**  
NOT TO SCALE



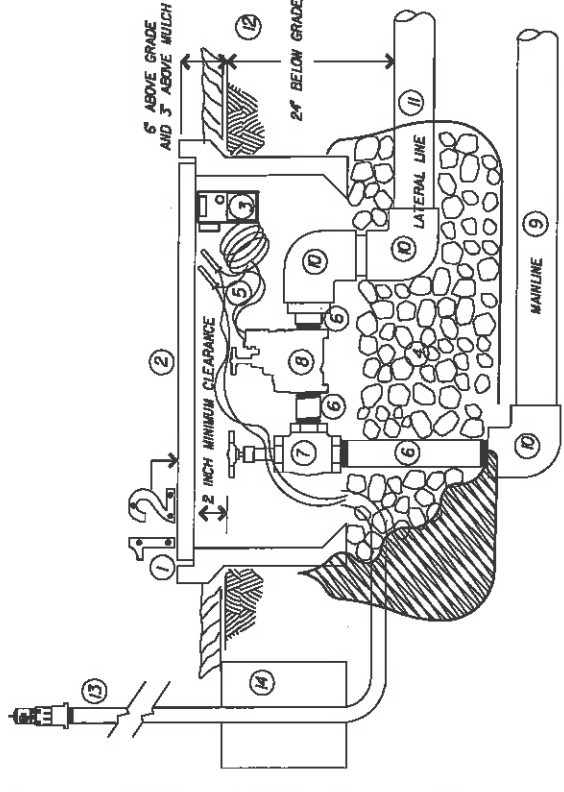
**IRRIGATION HEAD ON RISER  
IN MEDIAN SHRUB AREAS**  
NOT TO SCALE



**IRRIGATION HEAD  
IN MEDIAN GROUND COVER AREAS**  
NOT TO SCALE



**BACKFLOW PREVENTER**  
NOT TO SCALE



**VALVE INSTALLATION**  
NOT TO SCALE

- 1 ALUMINUM VALVE IDENTIFICATION NUMBER, SCREWED IN PLACE
- 2 VALVE BOX
- 3 BATTERY CONTROLLER
- 4 VALVE SUMP: 2 INCHES DEEP FILLED WITH RUBBER B' ROCK AND WRAPPED IN FILTER FABRIC
- 5 CONTROL WIRE: TYPE UF-85 THRU/W/WH WITH A 8# SERVICE COIL AND COPPER TIE UP-85 THRU/W/WH IN FILTER FABRIC
- 6 SCHEDULE 80 PVC THREADED NIPPLES
- 7 MANUAL GATE VALVE: MATCH ELECTRIC VALVE SIZE
- 8 ELECTRIC CONTROL VALVE
- 9 MANIFOLD PIPE: INSTALL LABELS FACING UP
- 10 FITTINGS: PVC SCHEDULE 40,
- 11 LATERAL LINE PIPE: INSTALL LABELS FACING UP
- 12 PIPE DEPTH REQUIREMENTS
- 13 1 INCH GALVANIZED CONDUIT, 6 FT HEIGHT WITH RAIN SENSOR
- 14 8 x 8 x 8 INCH CONCRETE FOOTER

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

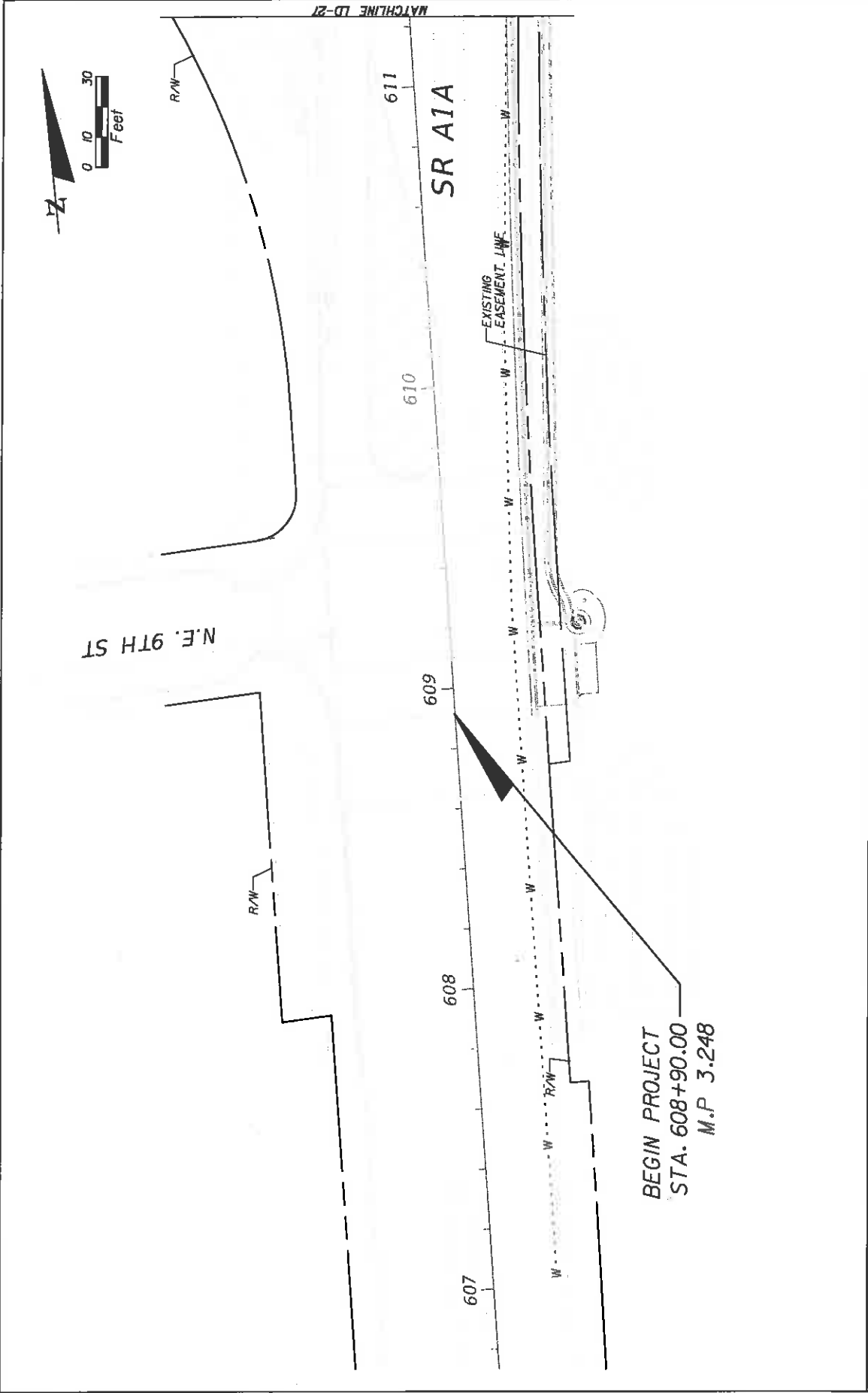
STATE OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
COUNTY	FINANCIAL PROJECT ID
ROAD NO.	A/A
BROWARD	433688-6-52-01

SHEET NO.	LD-25
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**IRRIGATION DETAILS**

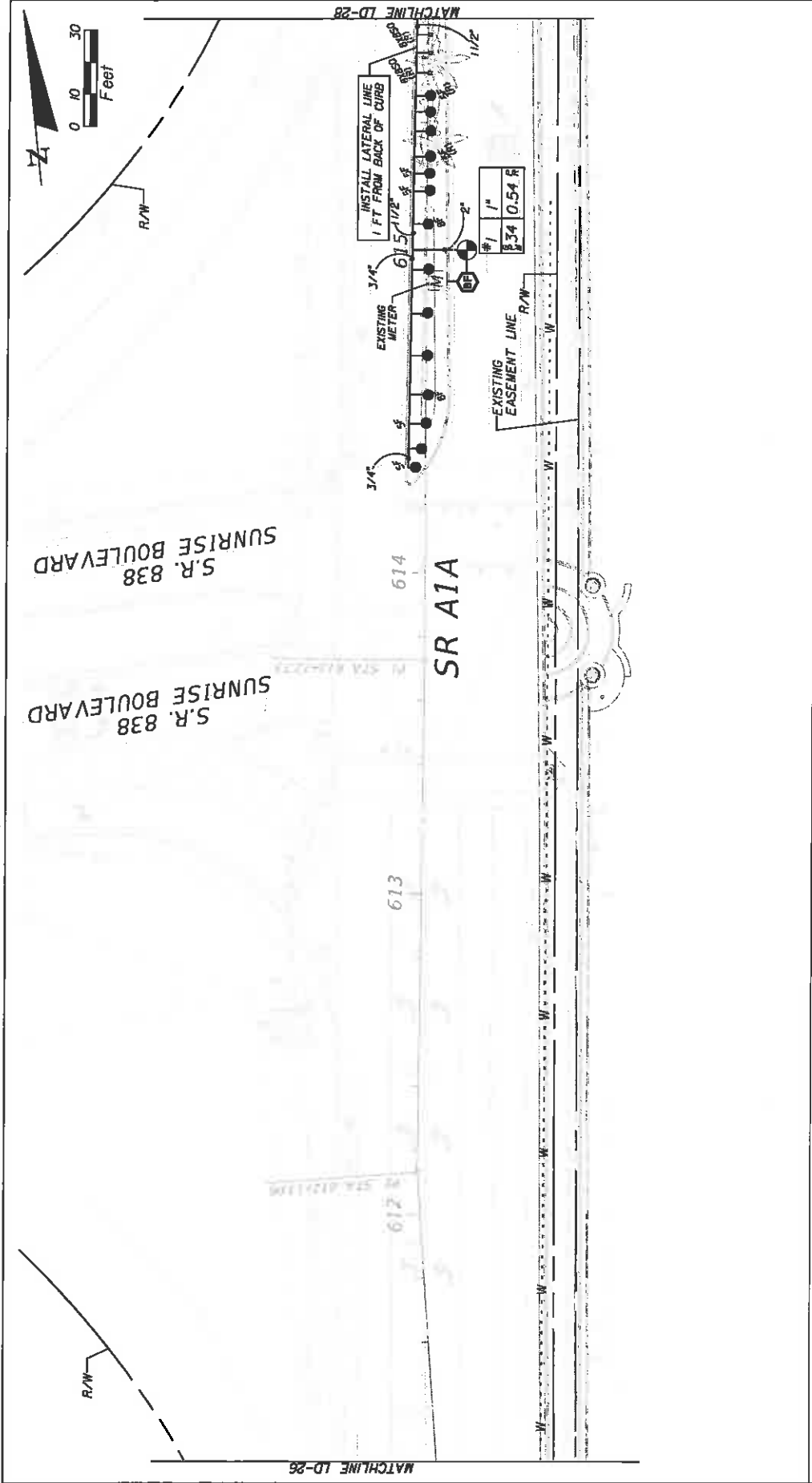
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DATE		REVISIONS		DESCRIPTION	
LANSBORO ARCHITECT OF RECORD, CHARLES S. COLLIER, P.A. (ARCHITECT) 8000 N. ANDREWS AVE., FT. LAUDERDALE, FL 33308-2028 (304)774-1415 <b>KEITH and SCINARS, P.A.</b> 8000 N. ANDREWS AVE., FT. LAUDERDALE, FL 33308-2028 (304)774-1415					
ROAD NO.	A/A	COUNTY	BRROWARD	FINANCIAL PROJECT ID	433688-6-52-01
<b>IRRIGATION PLAN</b>					
SHEET NO.					LD-26

1/28/2008



- 5F, 0.41 GPM
- 6F, 1.05 GPM
- 2.5X55Q (4X8 HALF ADJUSTED DOWN), 0.20 GPM
- 5X55Q (8X8 FULL ADJUSTED DOWN), 0.40 GPM
- 8X85Q (FULL), 0.40 GPM
- 3X125ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 3X225ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X15E (4X15), 0.61 GPM
- 4X30CST (4X30), 1.21 GPM

**LATERAL LINE (SIZED PER PLANS)**

ZONE VALVE NUMBER	VALVE SIZE	ZONE PRECIP RATE (IN/HR)	ZONE GPM
#1	1"	0.42	26

**ZONE VALVE**  
**BACK FLOW PREVENTER**

**COVERAGES**

8X85Q (R) ON RISER

**REVISIONS**

DATE	BY	DESCRIPTION

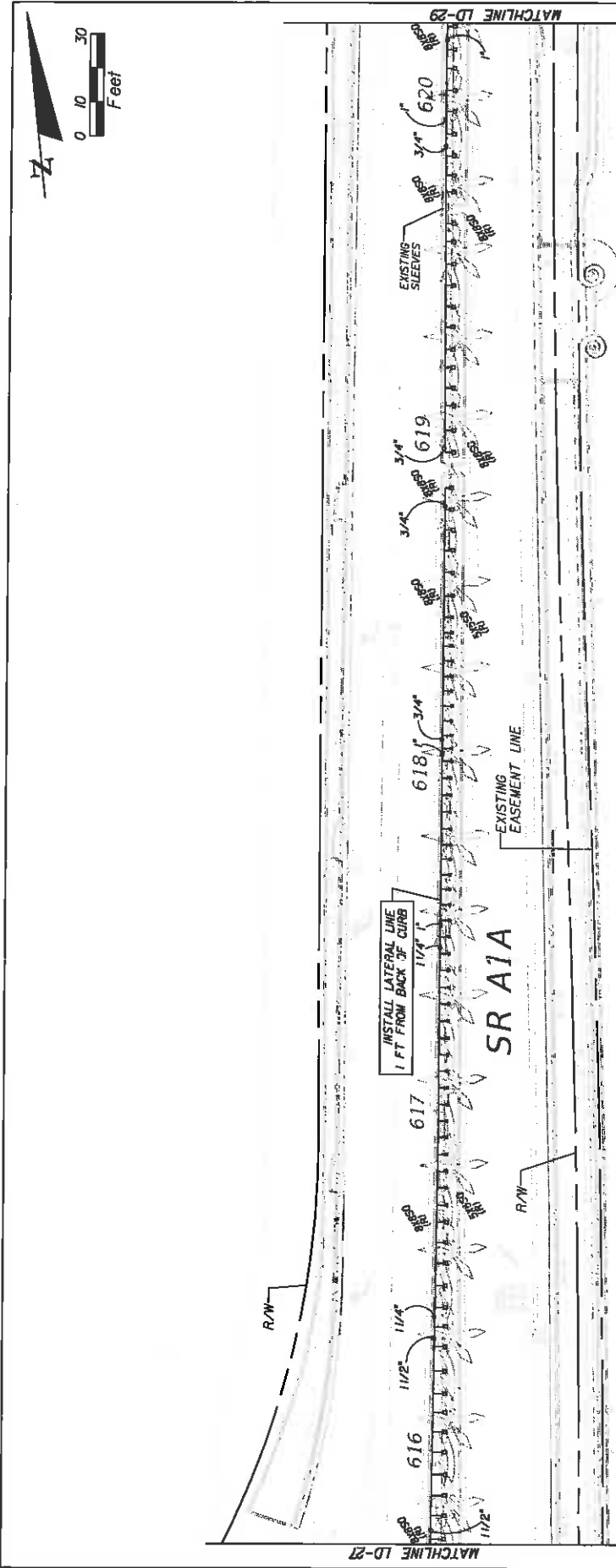
**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**

**KEITH and SCHNARS, P.A.**  
 6000 N. Andrews Ave., Ft. Lauderdale, FL 33309-2152 (954)775-1100

ROAD NO. A1A COUNTY BROWARD PROJECT ID 433688-6-52-01

**IRRIGATION PLAN**

SHEET NO. LD-27



- 3X1E1ST (4X15 ADJUSTED DOWN), 0.61 GPM
- 3X2E2S1T (4X30 ADJUSTED DOWN), 1.21 GPM
- 3X2E2C1ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X1E1ST (4X15), 0.61 GPM
- 4X30C1ST (4X30), 1.21 GPM

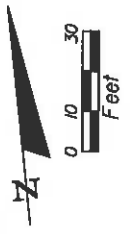
- 5F, 0.41 GPM
- 8F, 1.05 GPM
- 2-5X5SQ (4X8 HALF ADJUSTED DOWN), 0.20 GPM
- 5X5SQ (8X8 FULL ADJUSTED DOWN), 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM

COVERAGE PATTERN  
 8X8SQ (R) ON RISER

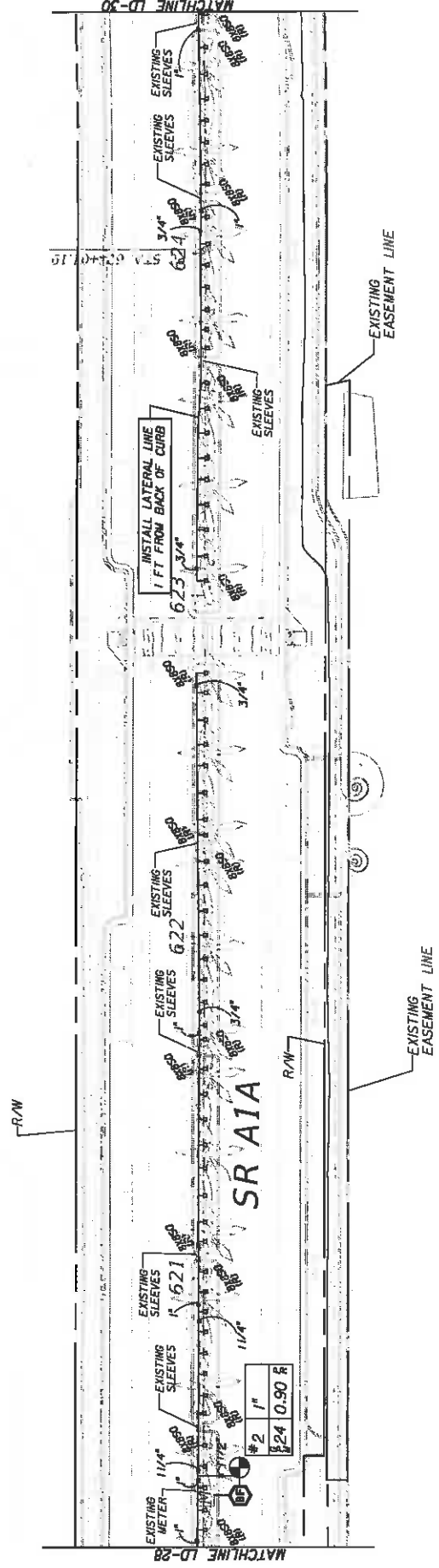
ZONE VALVE NUMBER	VALVE SIZE	ZONE PRECIP RATE (IN/HR)	ZONE GPM
#1	1"	0.42	

LATERAL LINE (SIZED PER PLANS)	ZONE VALVE	BACK FLOW PREVENTER
	●	⊕

<b>IRRIGATION PLAN</b>		SHEET NO. LD-28												
STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID 433688-6-52-01												
ROAD NO. A/A	COUNTY BROWARD	PROJECT NO. 433688-6-52-01												
LANDSCAPE ARCHITECT OF RECORD: KEITH & SCHNARS, P.A. 8200 N. Andrews Ave., Ft. Lauderdale, FL 33308-3302 (954) 774-8848 KEITH and SCHNARS, P.A. 8200 N. Andrews Ave., Ft. Lauderdale, FL 33308-3302 (954) 774-8848														
<table border="1" style="width: 100%;"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION									



# HUGH TAYLOR BIRCH STATE PARK



- 5F, 0.4 GPM
- BF, 1.05 GPM
- 2.5X5SQ 4X8 HALF ADJUSTED DOWN, 0.20 GPM
- 5X5SQ 18X8 FULL ADJUSTED DOWN, 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM

- 3X1E5T 4X15 ADJUSTED DOWN, 0.61 GPM
- 3X2E5T 4X30 ADJUSTED DOWN, 1.21 GPM
- 4X1E5T 4X15, 0.61 GPM
- 4X30CST 4X30, 1.21 GPM

COVERAGE  
PATTERN  
8X8SQ  
(R) ON RISER

ZONE VALVE NUMBER	VALVE SIZE	ZONE PRECIP RATE (IN/HR)	ZONE GPM
#1	1"	0.42	
#2	1"	0.90	

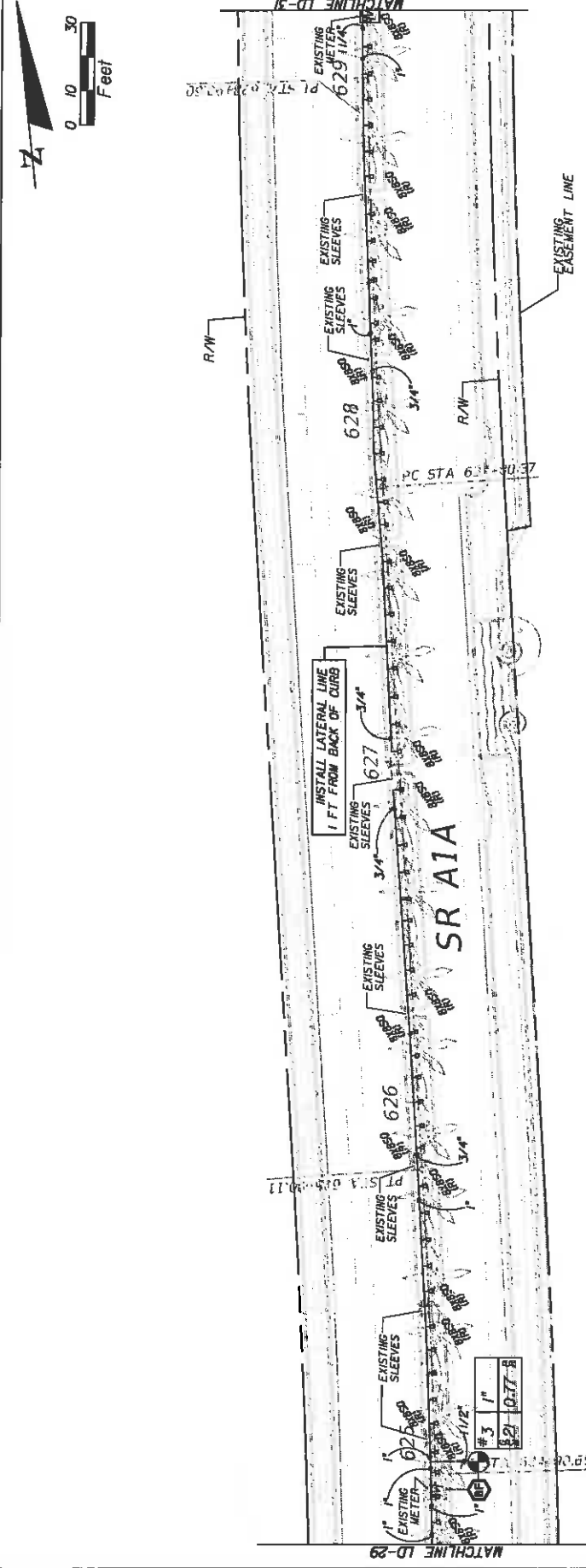
- ← LATERAL LINE (SIZED PER PLANS)
- ZONE VALVE
- BF BACK FLOW PREVENTER

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

ROAD NO.	A/A	COUNTY	BROWARD	FINANCIAL PROJECT ID	433688-6-52-01
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN		
KEITH and SCHNARS, P.A. 1000 N. ROSSER AVE., FT. LAUDERDALE, FL 33308-2302 Telephone: 954-775-1100			SHEET NO. LD-29		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G0-11.01, F.A.C.



- 3X11E1T (4X15 ADJUSTED DOWN), 0.61 GPM
- 3X28S1T (4X30 ADJUSTED DOWN), 1.21 GPM
- 3X28C1T (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X15E1T (4X15), 0.61 GPM
- 4X30C1T (4X30), 1.21 GPM

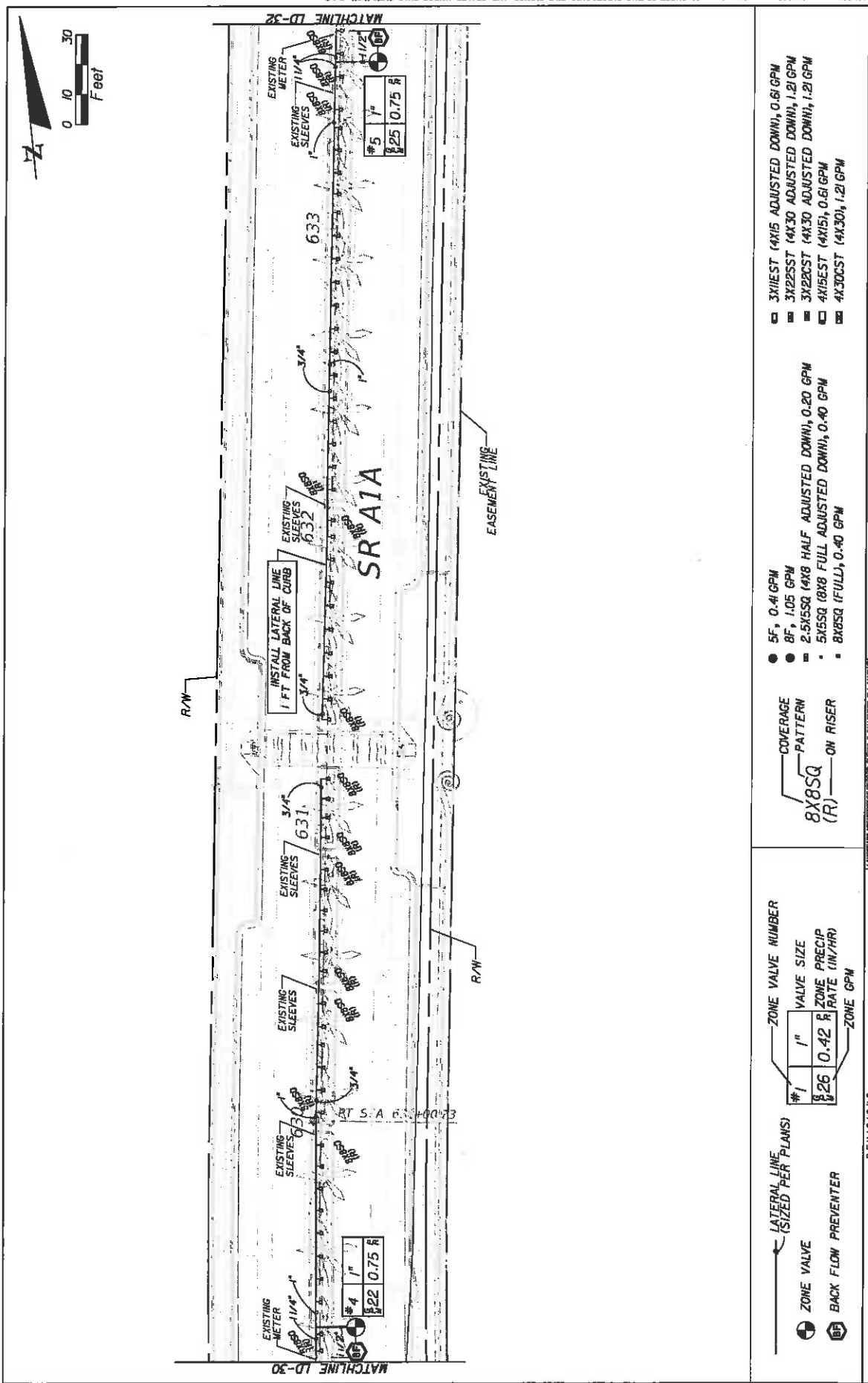
- 5F, 0.4 GPM
- 8F, 1.05 GPM
- 2.5X55SQ (4X8 HALF ADJUSTED DOWN), 0.20 GPM
- 5X55SQ (8X8 FULL ADJUSTED DOWN), 0.40 GPM
- 8X85SQ (FULL), 0.40 GPM

COVERAGE  
PATTERN  
8X85SQ  
(R) ON RISER

ZONE VALVE NUMBER	VALVE SIZE	ZONE PRECIP RATE (IN/HR)	ZONE GPM
#1	1"	0.42 R	
#26			

- ← LATERAL LINE (SIZED PER PLANS)
- ZONE VALVE
- ⊕ BACK FLOW PREVENTER

DATE		REVISIONS		DESCRIPTION	
STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A      COUNTY BROWARD      FINANCIAL PROJECT ID 433688-6-52-01					
KEITH and SCINARS, P.A. 6000 N. ANDERSON AVE., FT. LAUDERDALE, FL 33309-5102 (954)775-1616					
<b>IRRIGATION PLAN</b>					
SHEET NO.					LD-30



LATERAL LINE (SIZED PER PLANS)		ZONE VALVE NUMBER		VALVE SIZE		ZONE PRECIP RATE (IN/HR)		ZONE GPM	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE

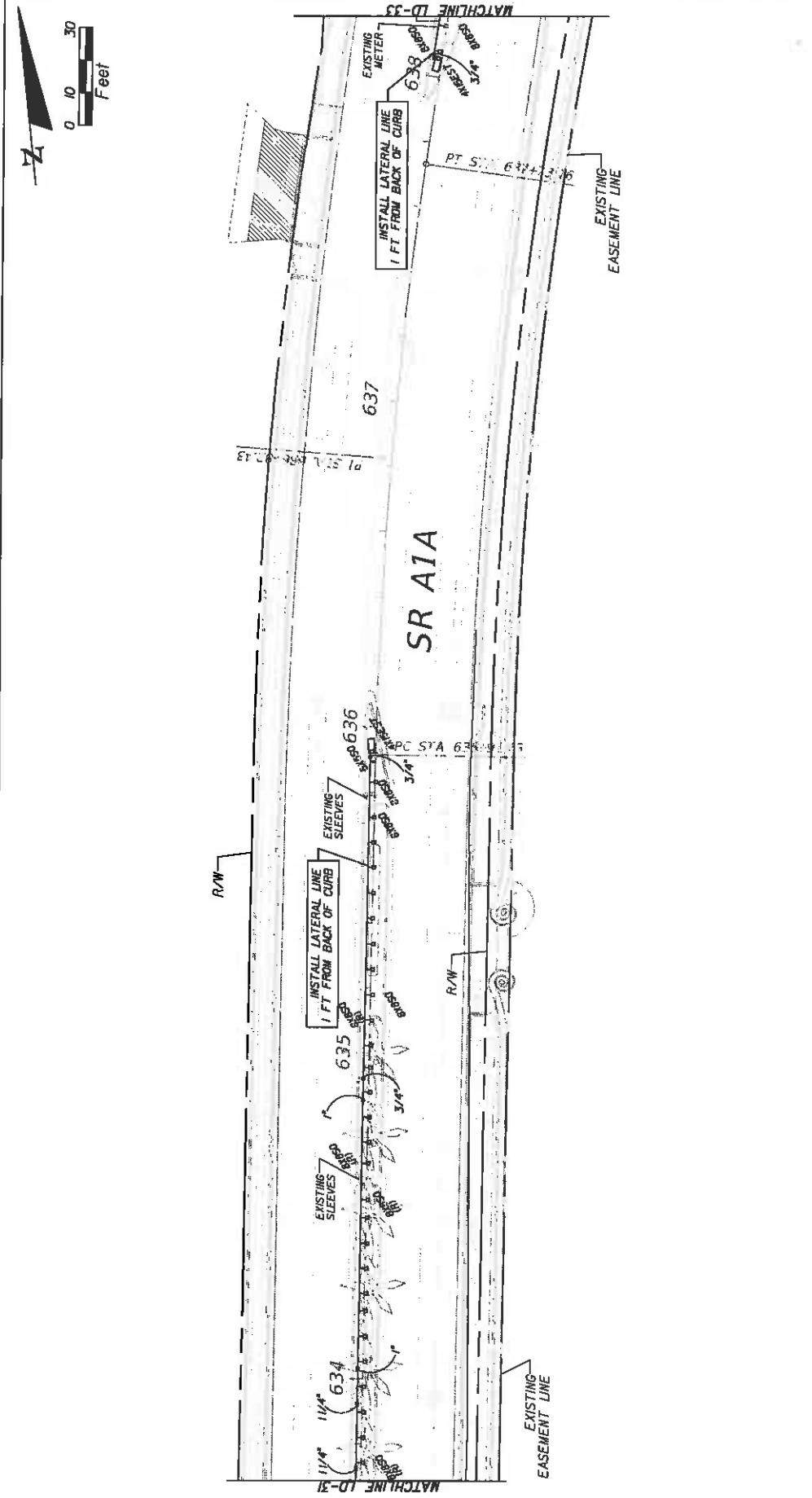
LATERAL LINE #1 1" 0.42 gpm #2 1" 0.42 gpm #3 1" 0.42 gpm #4 1" 0.22 gpm #5 1" 0.75 gpm		COVERAGE PATTERN 8X8SQ (R) ON RISER		5F, 0.4 GPM 8F, 1.05 GPM 2.5X5SQ 14X8 HALF ADJUSTED DOWN, 0.20 GPM 5X5SQ 18X8 FULL ADJUSTED DOWN, 0.40 GPM 8X8SQ (FULL), 0.40 GPM		3X1E1ST 14X30 ADJUSTED DOWN, 0.61 GPM 3X2S5ST 14X30 ADJUSTED DOWN, 1.21 GPM 3X2B2ST 14X30 ADJUSTED DOWN, 1.21 GPM 4X1S5ST 14X30, 0.61 GPM 4X3C2ST 14X30, 1.21 GPM	
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STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A/A COUNTY BROWARD FINANCIAL PROJECT ID 433688-6-52-01		SHEET NO. LD-31	
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KEITH and SCHNARS, P.A. 600 N. Andrews Ave., Ft. Lauderdale, FL 33304-5100 (954) 576-1616		IRRIGATION PLAN	
--	--	-----------------	--



- LATERAL LINE (SIZED PER PLANS)**
- ZONE VALVE
  - ⊕ BACK FLOW PREVENTER
- | ZONE VALVE NUMBER | VALVE SIZE | ZONE PRECIP RATE (IN/HR) | ZONE GPM |
|-------------------|------------|--------------------------|----------|
| #1                | 1"         | 0.42                     | R        |
| #26               |            |                          |          |
- COVERAGE PATTERN**  
8X8SQ (R) ON RISER
- 5F, 0.41 GPM
  - BF, 1.05 GPM
  - 2.5X5SQ (4X8 HALF ADJUSTED DOWN), 0.20 GPM
  - 5X5SQ (8X8 FULL ADJUSTED DOWN), 0.40 GPM
  - 8X8SQ (FULL), 0.40 GPM
  - 3X11EST (4X15 ADJUSTED DOWN), 0.61 GPM
  - 3X22SST (4X30 ADJUSTED DOWN), 1.21 GPM
  - 3X22CST (4X30 ADJUSTED DOWN), 1.21 GPM
  - 4X15EST (4X15), 0.61 GPM
  - 4X30CST (4X30), 1.21 GPM

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	A1A	COUNTY	BROWARD
PROJECT ID		FINANCIAL PROJECT ID	
433688-6-52-01		433688-6-52-01	

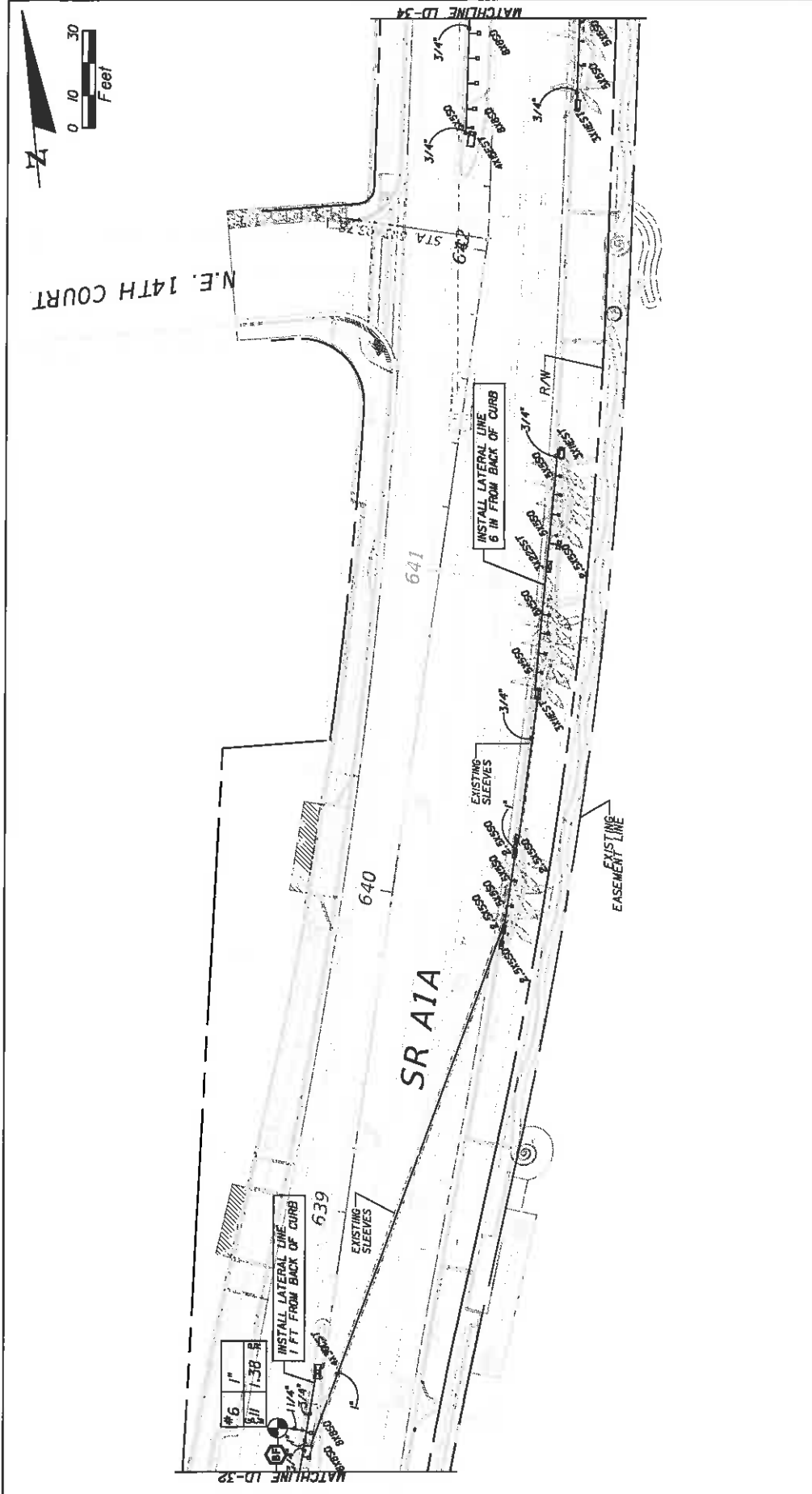
  

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.  
 KEITH and SCHNARS, P.A.  
 600 N. Andrews Ave., Ft. Lauderdale, FL 33309-2102 (954)776-0100

**IRRIGATION PLAN**

SHEET NO. LD-32





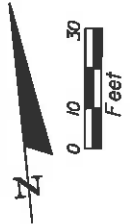
- 5", 0.41 GPM
- 8", 1.05 GPM
- 2.5X5SQ 4X8 HALF ADJUSTED DOWN, 0.20 GPM
- 5X5SQ 18X8 FULL ADJUSTED DOWN, 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM
- 3X1E1ST (4X15 ADJUSTED DOWN), 0.61 GPM
- 3X2E2ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 3X2E3ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X1E1ST (4X15), 0.61 GPM
- 4X30CST (4X30), 1.21 GPM

**COVER** **AGE**  
**PAT** **TERN**  
**8X8SQ**  
**(R)** **ON RISER**

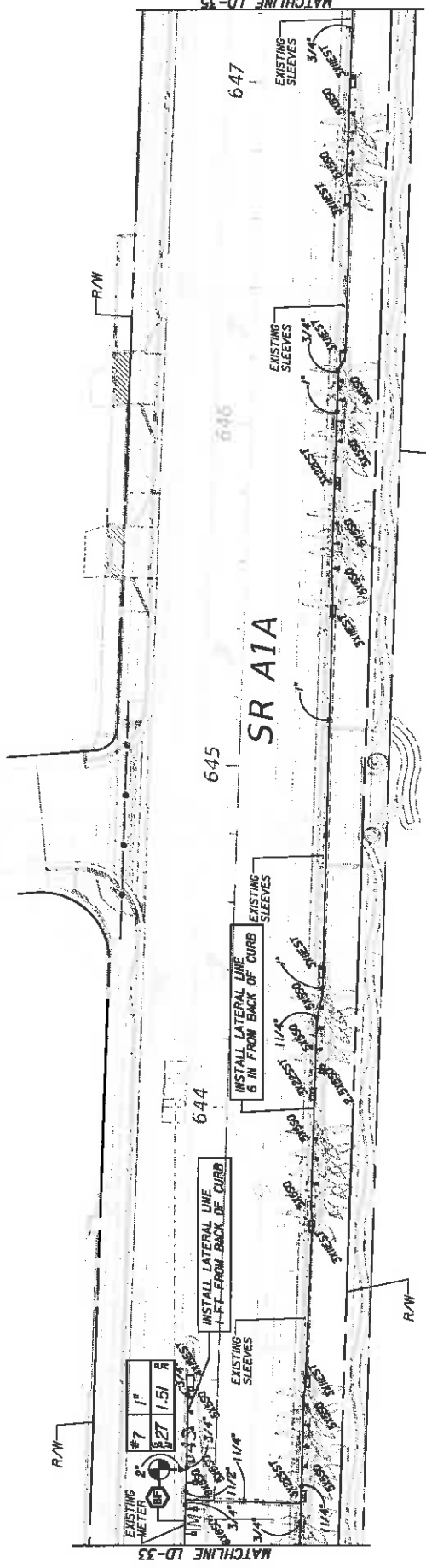
ZONE VALVE NUMBER	VALVE SIZE	ZONE PRECIP RATE (IN/HR)	ZONE GPM
#1	1"	0.42	0.26

- ← LATERAL LINE (SIZED PER PLANS)
- ZONE VALVE
- BACK FLOW PREVENTER

STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A COUNTY BROWARD FINANCIAL PROJECT ID 433688-6-52-01		SHEET NO. LD-33
<b>IRRIGATION PLAN</b>		
KEITH and SCHNARS, P.A. 8000 N. ANDERSON AVE., FT. LAUDERDALE, FL 33308-2128 (954)776-1916		
DATE: _____ BY: _____	REVISIONS: _____ DATE: _____ BY: _____	DESCRIPTION: _____



N.E. 15TH STREET



- 5F, 0.4 GPM
- 8F, 1.05 GPM
- 2.5X5SQ 1/2" HALF ADJUSTED DOWN, 0.20 GPM
- 5X5SQ 1/2" FULL ADJUSTED DOWN, 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM
- 3X1E1ST (4X15 ADJUSTED DOWN), 0.61 GPM
- 3X2E2ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 3X2E3ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X1E1ST (4X15), 0.61 GPM
- 4X30CST (4X30), 1.21 GPM

- COVERAGE
- PATTERN
- 8X8SQ (R) ON RISER

ZONE VALVE NUMBER	VALVE SIZE	ZONE PRECIP RATE (IN/HR)	ZONE GPM
#1	1"	0.42	
#26	1"	0.42	

- LATERAL LINE (SIZED PER PLANS)
- ZONE VALVE
- BACK FLOW PREVENTER

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

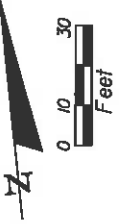
  

STATES OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	A/A	COUNTY	BROWARD
FINANCIAL PROJECT ID		433686-6-52-01	

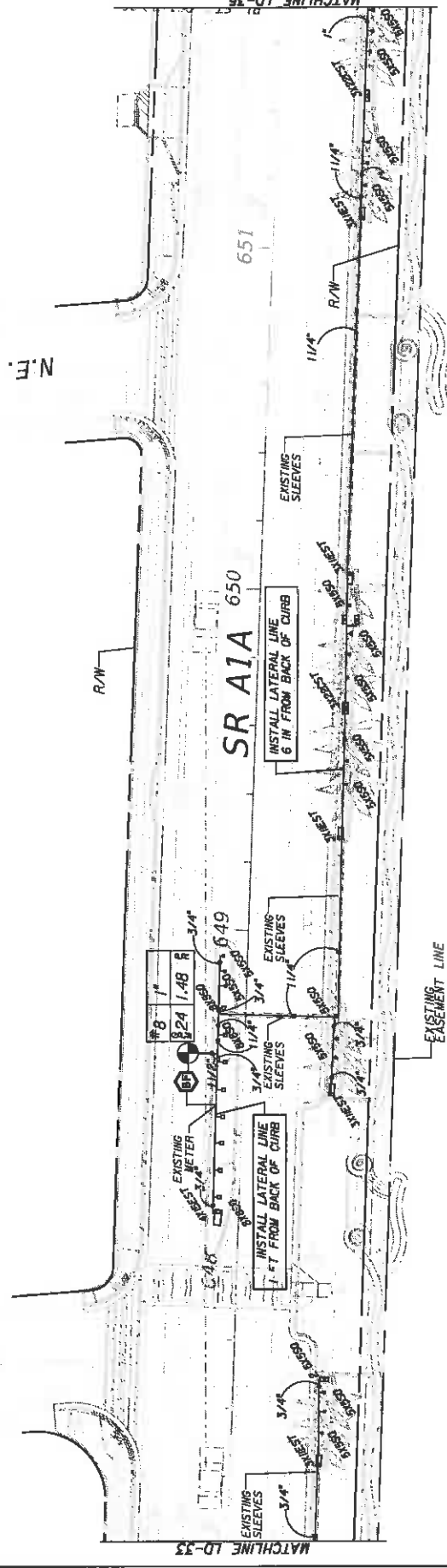
LICENSED PROFESSIONAL ENGINEER <b>KEITH and SCHNARS, P.A.</b> 6800 W. Johnson Ave., Ft. Lauderdale, FL 33309-3743 (954)776-1916		SHEET NO. <b>LD-34</b>
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**IRRIGATION PLAN**



N.E. 15TH COURT

N.E. 16TH STREET



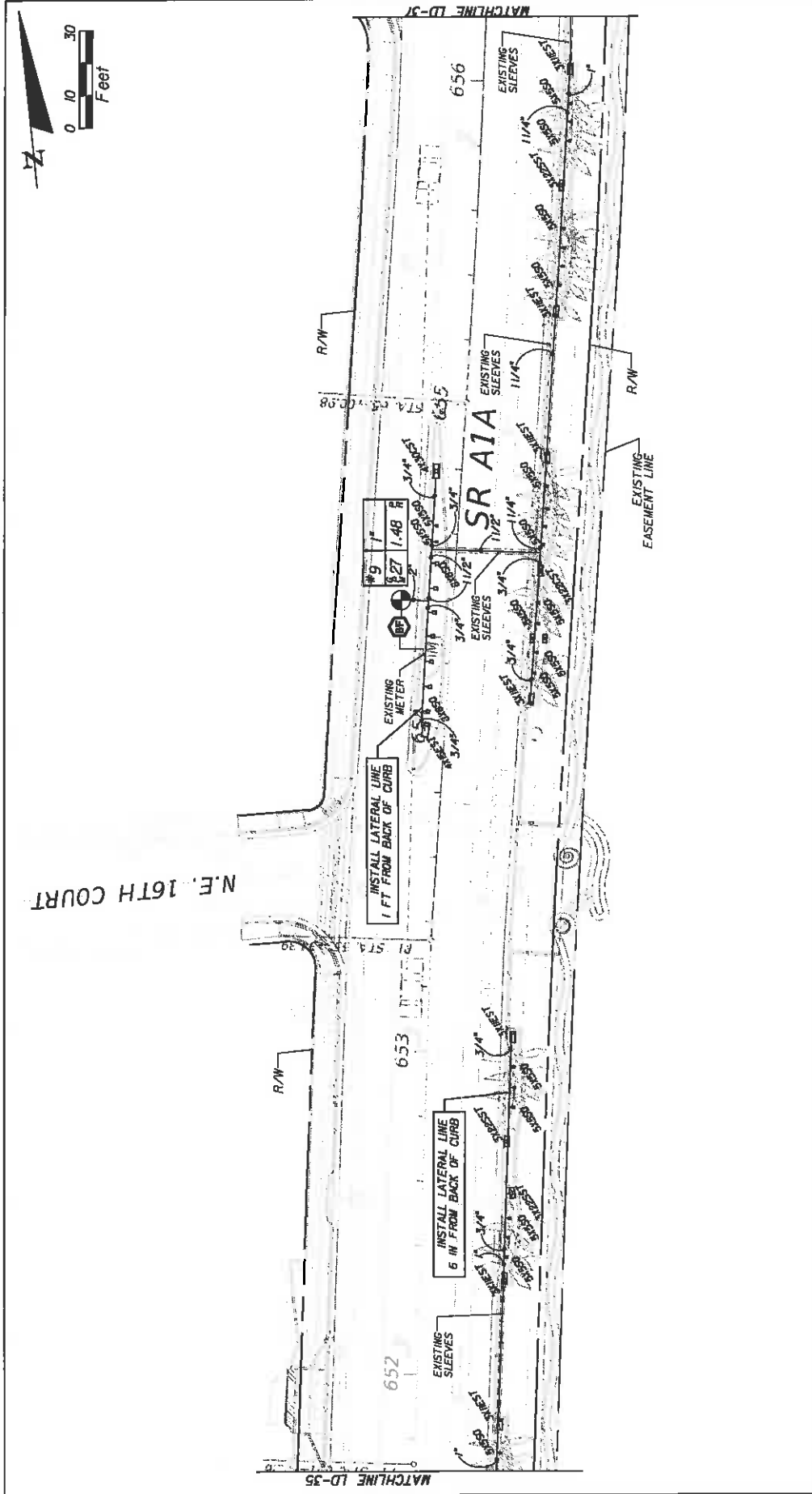
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

LATERAL LINE (SIZED PER PLANS)  
 ZONE VALVE  
 BACK FLOW PREVENTER

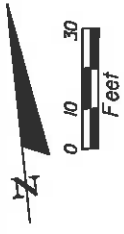
COVERARGE  
 PATTERN  
 8X8SQ  
 (R) ON RISER

- 5F, 0.4 GPM
- 8F, 1.05 GPM
- 2.5X5SQ 14X8 HALF ADJUSTED DOWN, 0.20 GPM
- 5X5SQ 18X8 FULL ADJUSTED DOWN, 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM
- 3X1E5T 14X15 ADJUSTED DOWN, 0.61 GPM
- 3X2E5T 14X30 ADJUSTED DOWN, 1.21 GPM
- 3X2E5T 14X30 ADJUSTED DOWN, 1.21 GPM
- 4X1E5T 14X15, 0.61 GPM
- 4X30C5T 14X30, 1.21 GPM

STATE OF FLORIDA		SHEET NO. LD-35	
DEPARTMENT OF TRANSPORTATION		IRRIGATION PLAN	
ROAD NO. A1A	COUNTY BROWARD	FINANCIAL PROJECT ID 435688-6-52-01	
KEITH and SCHNARS, P.A. 6000 N. Andrews Ave., Ft. Lauderdale, FL 33308-2122 (954)776-1910 <small>UNDESIGNED AND UNRECORDED PROJECTS ARE THE PROPERTY OF KEITH AND SCHNARS, P.A.</small>			



N.E. 16TH COURT



- 5F, 0.41 GPM
- BF, 1.05 GPM
- 2.5X5SQ 14X8 HALF ADJUSTED DOWN, 0.20 GPM
- 5X5SQ 18X8 FULL ADJUSTED DOWN, 0.40 GPM
- 8X8SQ IFULL, 0.40 GPM

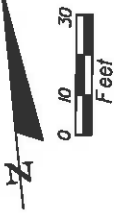
- 3X11EST 14X15 ADJUSTED DOWN, 0.61 GPM
- 3X22CST 14X30 ADJUSTED DOWN, 1.21 GPM
- 4X15EST 4X15, 0.61 GPM
- 4X30CST 14X30, 1.21 GPM

COVERAGE  
PATTERN  
8X8SQ  
(R) ON RISER

LATERAL LINE (SIZED PER PLANS)	ZONE VALVE NUMBER
● ZONE VALVE	#1
● BACK FLOW PREVENTER	VALVE SIZE 1"
	ZONE PRECIP RATE (IN/HR) 0.42
	ZONE GPM

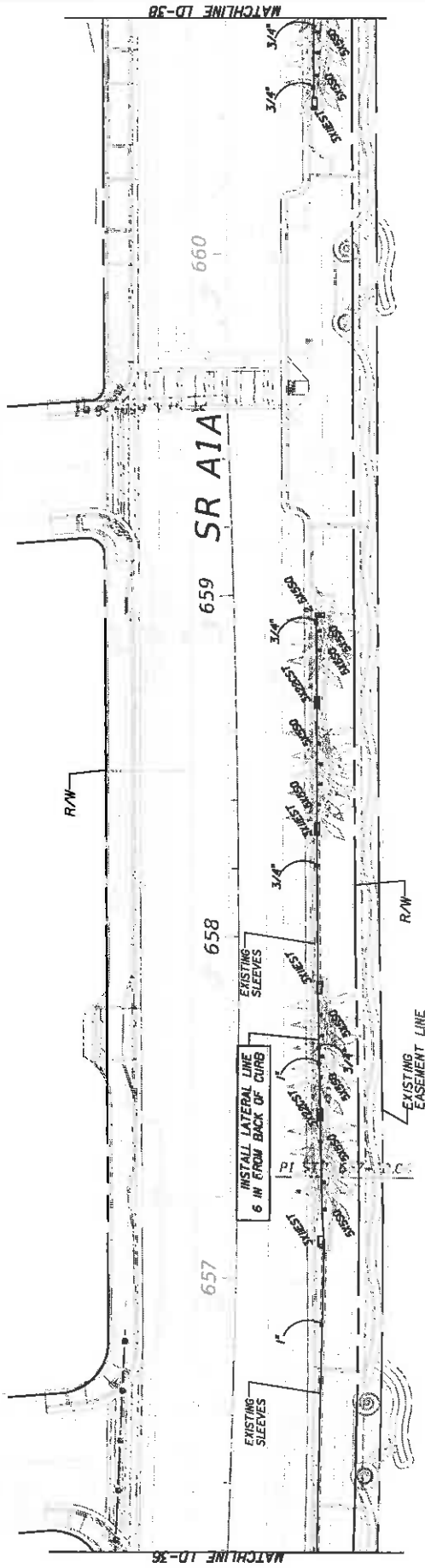
DATE		BY		DESCRIPTION	
REVISIONS		DATE		DESCRIPTION	
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				PROJECT ID	
ROAD NO.				COUNTY	
N/A				BROWARD	
PROJECT NO.				433688-6-52-01	
<b>IRRIGATION PLAN</b>					
SHEET NO. LD-36					

KEITH and SCHNARS, P.A.  
6800 N. UNIVERSITY AVE., SUITE 200  
FORT LAUDERDALE, FL 33308-3125 (954) 778-1919



N.E. 17TH STREET

N.E. 16TH PLACE



MATCHLINE LD-38

MATCHLINE LD-36

- 3X11E1T (4X15 ADJUSTED DOWN), 0.61 GPM
- 3X22S1T (4X30 ADJUSTED DOWN), 1.21 GPM
- 3X22E1T (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X15E1T (4X15), 0.61 GPM
- 4X30C1T (4X30), 1.21 GPM

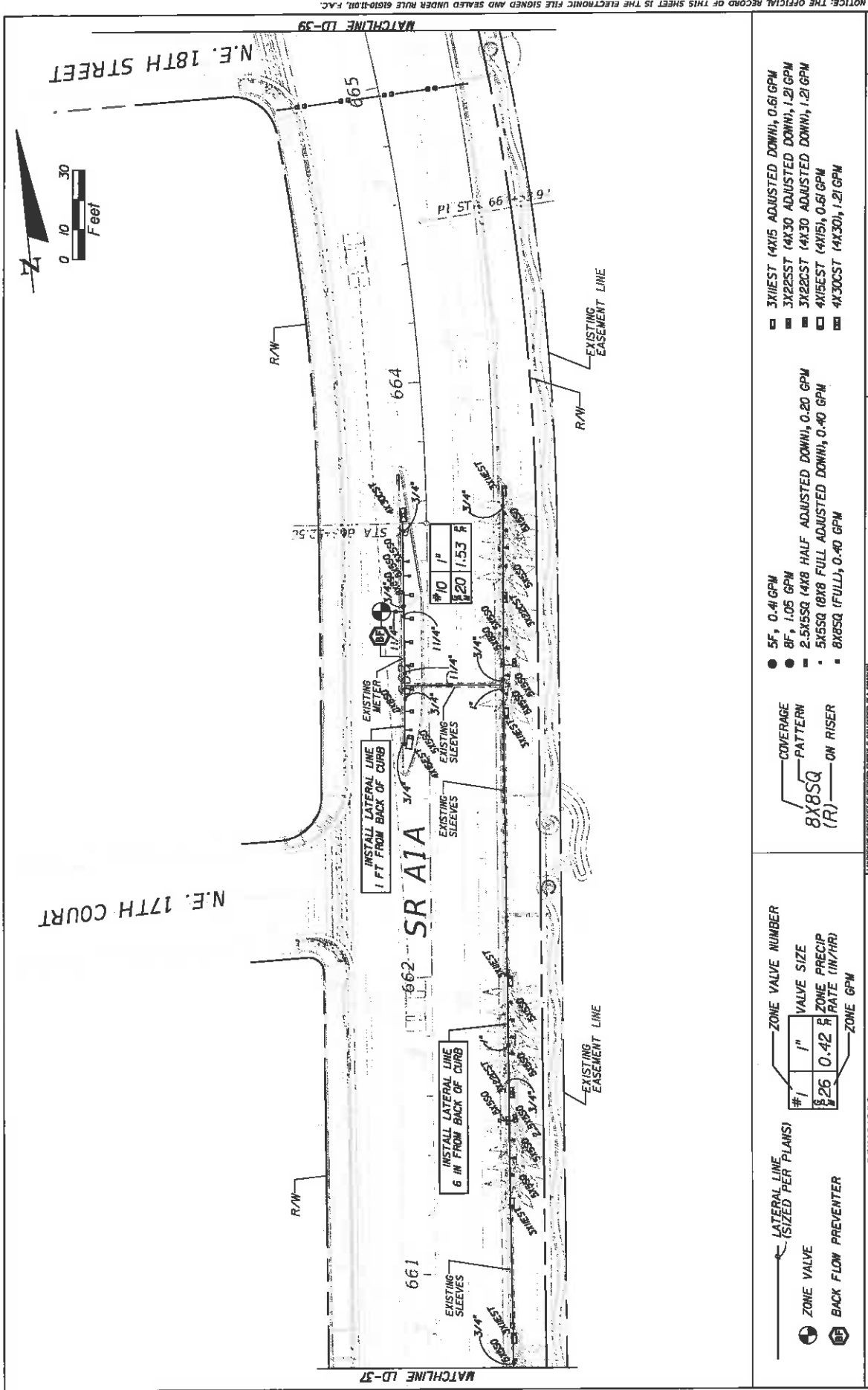
- 5F, 0.41 GPM
- 8F, 1.05 GPM
- 2.5X5SQ (4X8 HALF ADJUSTED DOWN), 0.20 GPM
- 5X5SQ (8X8 FULL ADJUSTED DOWN), 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM

COVERAGE  
PATTERN  
8X8SQ  
(R) ON RISER

ZONE VALVE NUMBER	VALVE SIZE	ZONE PRECIP RATE (IN/HR)	ZONE GPM
#1	1"	0.42	

- ← LATERAL LINE (SIZED PER PLANS)
- ⊕ ZONE VALVE
- ⊖ BACK FLOW PREVENTER

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID 433688-6-52-01	
ROAD NO. AIA	COUNTY BROWARD	SHEET NO. LD-37	
<b>IRRIGATION PLAN</b>			
UNAPPROVED PROJECT OF RECORD SHEET, SEE SCHEDULE A FOR APPROVAL INFORMATION <b>KEITH and SCHINARS, P.A.</b> 600 N. Pine Street, Ft. Lauderdale, FL 33304-2100 (954) 571-1111		DATE	
REVISIONS	DATE	BY	DESCRIPTION



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G0-11.011, F.A.C.

**LATERAL LINE (SIZED PER PLANS)**

- ZONE VALVE
- ⊙ ZONE VALVE NUMBER
- ZONE VALVE SIZE
- ZONE PRECIP RATE (IN/HR)
- ZONE GPM
- ⊕ BACK FLOW PREVENTER

**COVERAGE PATTERN**

8X85SQ (R) ON RISER

- 5F, 0.4 GPM
- 8F, 1.05 GPM
- 2.5X5SQ (4X8 HALF ADJUSTED DOWN), 0.20 GPM
- 5X5SQ (8X8 FULL ADJUSTED DOWN), 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM
- 3X1E5T (4X15 ADJUSTED DOWN), 0.61 GPM
- 3X2E5T (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X1E5T (4X15), 0.61 GPM
- 4X30E5T (4X30), 1.21 GPM

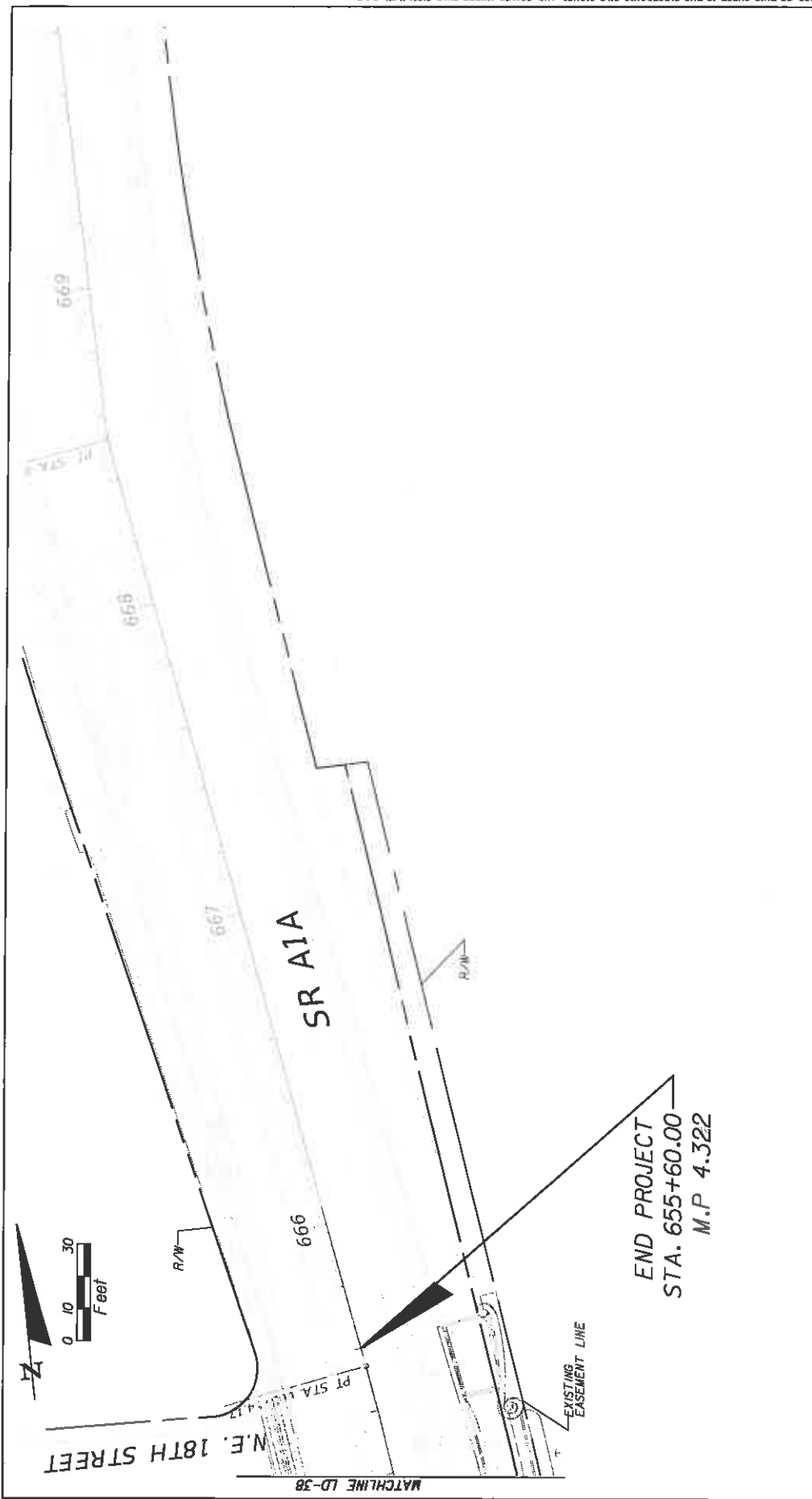
REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
A1A	BROWARD	433688-6-52-01	

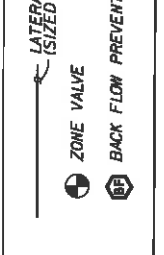
KEITH and SCHNARS, P.A.

6800 Ft. Lauderdale Ave., Ft. Lauderdale, FL 33309-2828 (407) 776-1815

IRRIGATION PLAN	SHEET NO. LD-38
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- 5F, 0.4 GPM
- 8F, 1.05 GPM
- 2.5X5SQ 1/2" HALF ADJUSTED DOWN, 0.20 GPM
- 5X5SQ 1/2" FULL ADJUSTED DOWN, 0.40 GPM
- 8X8SQ (FULL), 0.40 GPM
- 3X1/2"ST (4X15 ADJUSTED DOWN), 0.61 GPM
- 3X2"ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 3X2"ST (4X30 ADJUSTED DOWN), 1.21 GPM
- 4X1/2"ST (4X15), 0.61 GPM
- 4X3/4"ST (4X30), 1.21 GPM



DATE	BY	REVISIONS	DATE	BY	DESCRIPTION

MEASURED AND PLANNED BY: KEITH and SCHNARS, P.A.  
 6800 N. ARDEN AVE, FT. LAUDERDALE, FL 33309-3122 (954)774-1016

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 ROAD NO. A/A COUNTY BROWARD PROJECT ID 433668-6-52-01

**IRRIGATION PLAN**

SHEET NO. LD-39

1. REGULATORY SPEED IN AN ACTIVE WORK ZONE IS 25 MPH

2. PRIOR TO ANY LANE CLOSURE THE CONTRACTOR SHALL NOTIFY THE FOOT PROJECT ADMINISTRATOR AS WELL AS THE FOOT DISTRICT 4 PUBLIC INFORMATION OFFICERS AT LEAST 14 BUSINESS DAYS PRIOR TO CLOSURE. NOTIFY:  
 BARBARA KELLEHER, DISTRICT 4 PUBLIC INFORMATION OFFICER  
 FLORIDA DEPARTMENT OF TRANSPORTATION  
 3400 WEST COMMERCIAL BLVD.  
 FORT LAUDERDALE, FLORIDA 33309-3421  
 PHONE: (954) 777-4091

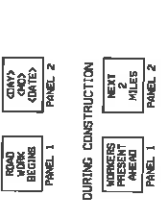
DAYANA IGLESIAS, BROWARD OPERATIONS PUBLIC INFORMATION OFFICER  
 FLORIDA DEPARTMENT OF TRANSPORTATION  
 3548 N.W. 9TH AVE.  
 FORT LAUDERDALE, FLORIDA 33309  
 PHONE: (954) 940-1585

3. LOCAL POLICE, FIRE RESCUE, AND AMBULANCE SERVICE SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO ANY CLOSURE.

4. BUS STOPS SHALL BE MAINTAINED, IF REQUIRED, BUS STOP CLOSURES SHALL BE COORDINATED WITH THE PROJECT ADMINISTRATION AND BROWARD COUNTY TRANSIT.

5. THE CONTRACTOR SHALL NOT WORK EAST OF THE EXISTING ROADWAY FOOTPRINT WALL DURING TURTLE NESTING SEASON (MARCH TO OCTOBER) UNLESS SPECIFIC WORK ACTIVITIES ARE APPROVED BY THE ENGINEER AND THE PERMITTING AGENCIES.

6. THE CONTRACTOR SHALL PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) IN ALL DIRECTIONS (FOR TRAFFIC DRIVING NORTH AND SOUTH ON AIA AND TRAFFIC DRIVING EAST ON SUNRISE) PRIOR TO CONSTRUCTION WITH DISPLAYS AS FOLLOWS, OR AS DIRECTED BY THE ENGINEER:



7. NO STOCK PILING OF CONSTRUCTION MATERIALS TO BE ALLOWED EAST OF THE EASEMENT LINE AND WEST OF THE CCCL AREA BY PERMIT.

8. CONSTRUCTION EQUIPMENT WILL BE ALLOWED ONLY ON SR A1A. NO STAGING OF EQUIPMENT OR MATERIALS TO BE ALLOWED EAST OF THE EASEMENT LINE.

9. PROJECT INFORMATION SIGN PANELS SHALL BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH INDEX 600 SHEET 7 OF 13. THESE SIGNS SHALL BE POSTED WITH BLUE BACKGROUND AND WHITE LETTERING. PRE-CONSTRUCTION SIGNS SHALL BE INSTALLED SO AS TO BE VISIBLE ALONG EACH MAINLINE APPROACH. CONTRACTOR SHALL INSTALL THE SIGNS INCLUDING THE SIGN PANELS. SIGNS MAY BE REMOVED ONCE NO LONGER NEEDED AS DETERMINED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN PAY ITEM 10E-1. THE FOLLOWING SIGNS SHALL BE LOCATED 500' BEFORE THE FIRST WARNING SIGN:  
 - A1A EASTBOUND ON SUNRISE BLVD  
 - A1A WESTBOUND ON SUNRISE BLVD  
 - A1A SOUTHBOUND ON SUNRISE BLVD

SIGN INFORMATION:  
 SR A1A  
 SR 1A  
 (954) 777-4091

FOR ADDITIONAL INFORMATION, CONTACT:  
 BARBARA KELLEHER, DISTRICT 4 PUBLIC INFORMATION OFFICER  
 FLORIDA DEPARTMENT OF TRANSPORTATION  
 3400 WEST COMMERCIAL BLVD.  
 FORT LAUDERDALE, FLORIDA 33309  
 PHONE: (954) 777-4091

ENGINEER OF RECORD: SCOTT PETERSON, P.E.  
 P.E. LICENSE NUMBER 52740  
 3400 WEST COMMERCIAL BLVD.  
 FORT LAUDERDALE, FL 33309  
 (954) 777-4416  
 scott.peterson@dot.state.fl.us

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	FINANCIAL PROJECT ID 433688-6-92-01	ROAD NO. A1A	COUNTY BROWARD	SHEET NO. LD-40

10772015 41847 PN 168579

TRAFFIC CONTROL PLAN  
GENERAL NOTES

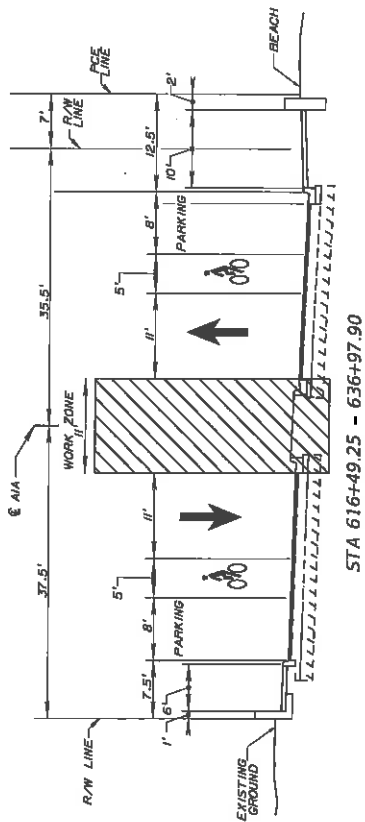
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PHASE I

- INSTALL TRAFFIC CONTROL DEVICES AS PER INDEX 601 THRU 608 AND 660
- MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC OPEN NORTHBOUND AT ALL TIMES
- MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC OPEN SOUTHBOUND AT ALL TIMES
- MAINTAIN ONE BIKE LANE AT ALL TIMES
- INSTALL VEGETATION AND ALL OTHER MEDIAN COMPONENTS EXCEPT PALM TREES WHICH WILL BE INSTALLED IN PHASE IA

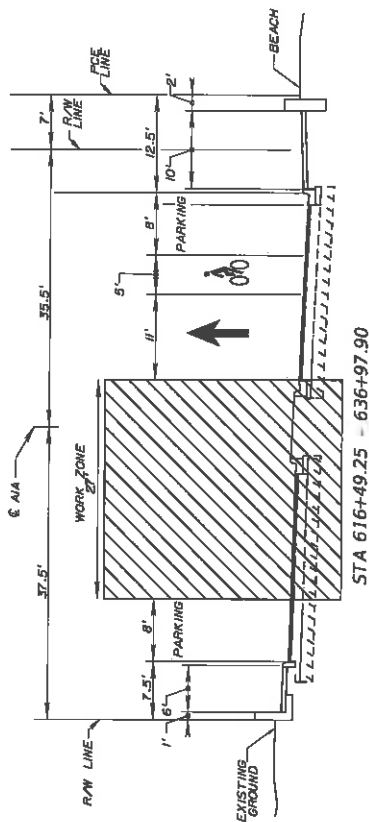
PHASE I



PHASE IA

- INSTALL TRAFFIC CONTROL DEVICES AS PER INDEX 601 THRU 608 AND 660
- MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC OPEN NORTHBOUND AT ALL TIMES
- MAINTAIN AT LEAST ONE (1) BICYCLE LANE OPEN AT ALL TIMES
- INSTALL PALM TREES IN MEDIAN
- LANE CLOSURE IS ALLOWED ONLY BETWEEN 9 PM AND 6 AM FOR A MAXIMUM OF FOUR NIGHTS
- PROVIDE SIGNAGE FOR ROAD CLOSED TO THROUGH TRAFFIC. SEE SHEET LD-42.

PHASE IA



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

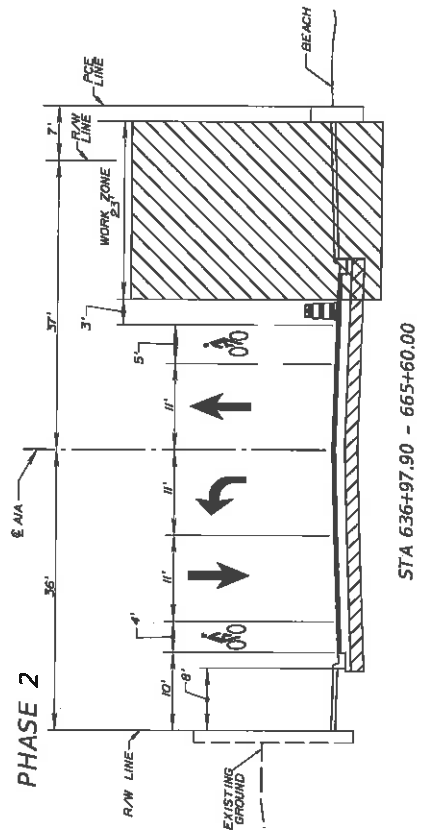
  

ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 500 DISTRICT IN COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO. LD-41
ROAD NO. A1A	COUNTY BROWARD	FINANCIAL PROJECT ID 433686-6-52-01	TRAFFIC CONTROL PLAN

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PHASE 2

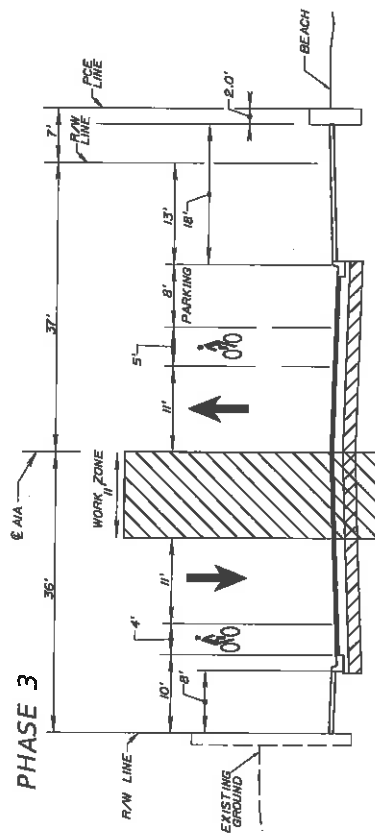
- INSTALL TRAFFIC CONTROL DEVICES AS PER INDEX 601 THRU 608 AND 660
- MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC OPEN NORTHBOUND AT ALL TIMES
- MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC OPEN SOUTHBOUND AT ALL TIMES
- MAINTAIN BOTH BICYCLE LANES OPEN AT ALL TIMES
- INSTALL LANDSCAPING ON THE EAST SIDE OF THE ROADWAY
- MAINTAIN BEACH ACCESS AT PEDESTRIAN CROSSINGS



STA 636+97.90 - 665+60.00

PHASE 3

- INSTALL TRAFFIC CONTROL DEVICES AS PER INDEX 601 THRU 608 AND 660
- MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC OPEN NORTHBOUND AT ALL TIMES
- MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC OPEN SOUTHBOUND AT ALL TIMES
- MEDIAN PLANTING WORK ZONES WILL BE WITHIN THE LEFT TURN LANES



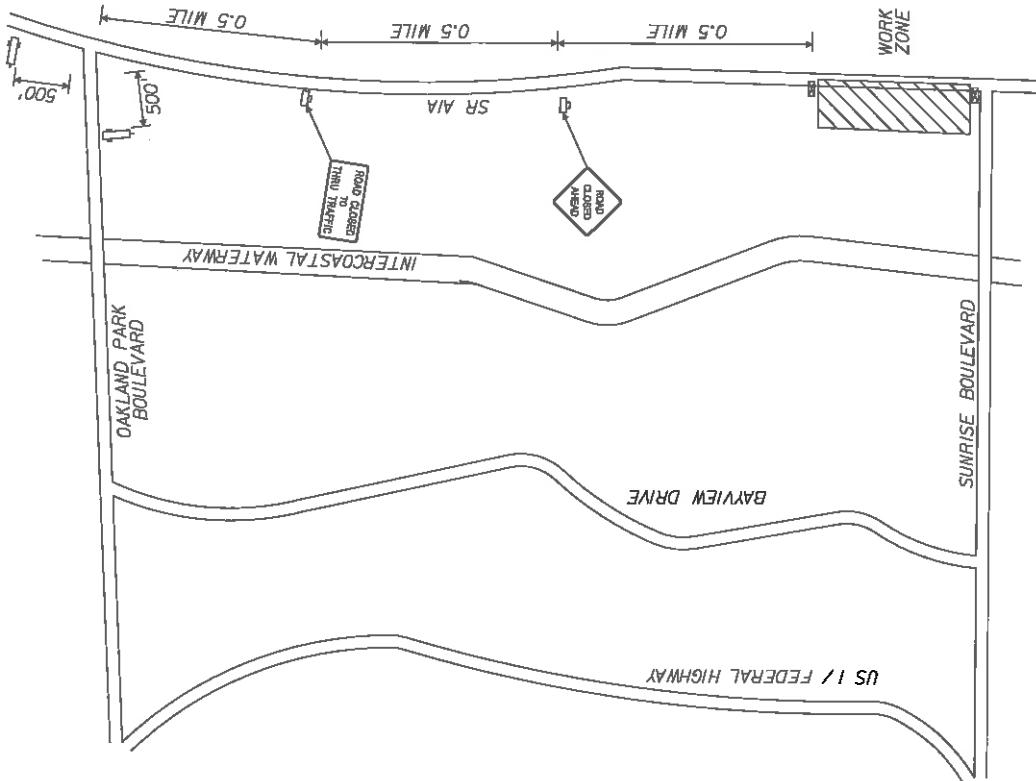
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DATE	REVISIONS	DESCRIPTION
ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FDOT DISTRICT IV 2000 WEST COMMERCIAL BLVD. TAMPA, FLORIDA 33609 (954) 777-4416 scott.peterson@dot.state.fl.us		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		ROAD NO. AIA COUNTY BROWARD FINANCIAL PROJECT ID 433686-6-32-01
<b>TRAFFIC CONTROL PLAN</b>		
1/29/2015 4:20:28 PM 146379		SHEET NO. LD-42

# PHASE IA DETOUR

⇄ PORTABLE CHANGEABLE MESSAGE SIGN  
 LOC. TRAF ONLY SB A/A  
 SEEK ALT ROUTE

▬ TYPE III BARRICADE WITH "ROAD CLOSED" SIGN



DATE	REVISIONS	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: SCOTT PETERSON, P.E. P.E. LICENSE NUMBER 52740 FOOT DISTRICT IV 400 WEST COMMERCIAL BLVD. FORT WENDENHILL, FL 33309 (954) 777-4416 scott.peterson@dot.state.fl.us		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO. LD-43
ROAD NO. A/A	COUNTY BROWARD	FINANCIAL PROJECT ID 433668-6-52-01	

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**SECTION No.(s):** 860500  
**S.R. No.(s):** A1A  
**FM No:** 433688-6-52-01  
**COUNTY:** BROWARD COUNTY

**EXHIBIT C**  
**LANDSCAPE IMPROVEMENT MAINTENANCE PLANS**

## MAINTENANCE PLAN Landscape Improvements

**Project State Road No(s):** State Road A1A  
**Project Limits:** From N.E. 9<sup>th</sup> Street (M.P. 3.248) to N.W. 18<sup>th</sup> Street (M.P. 4.322)  
**FM No(s):** 433688-6-52-01  
**Maintaining Agency:** City of Fort Lauderdale  
**RLA of Record:** Cheryl C. Callender, R.L.A. 6667177  
**Date:** January 29, 2015

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### **I. GENERAL MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS:**

The purpose of a plan for the landscape improvements maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner while fulfilling their intended purpose and conserving our natural resources. Plantings and all other landscape improvements shall be maintained to avoid potential roadway hazards and to provide required clear visibility, accessibility, clearance, and setbacks as set forth by Florida Department of Transportation (FDOT) governing standards and specifications: *FDOT Design Standards*, *FDOT Plans Preparation Manual Vol. I, Chapter 2.11* and *FDOT Standard Specifications for Road and Bridge Construction*, as amended by contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

### **WATERING REQUIREMENTS**

Watering is a critical concern for not only the maintenance of healthy plant material but also for observing water conservation practices. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil. For plant materials that have been established, it is imperative that any mandated water restrictions be fully conformed to on FDOT roadways.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not saturate the soil or over-spray onto travel lanes.

### **IRRIGATION SYSTEM**

The Agency shall ensure there are no roadway overspray or irrigation activities during daytime hours (most notably "rush hour" traffic periods). It is imperative the irrigation controller is properly set to run early enough that the watering process will be entirely completed before high traffic periods, while adhering to mandated water restrictions. To ensure water conservation, the Agency shall monitor the system for water leaks and the rain sensors to ensure they are functioning properly so that the system shuts down when there is sufficient rainfall.

## **INTEGRATED PLANT MANAGEMENT**

An assessment of each planting area's soil is recommended to periodically determine the nutrient levels needed to sustain healthy, vigorous plant growth.

Palms, shrubs, trees and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

## **MULCHING**

Mulch planting beds in such a manner as to prevent weed growth, retain moisture to the plants, protect against soil erosion and nutrient loss, maintain a more uniform soil temperature, and improve the appearance of the planting beds. Avoid mulch mounded up on the trunks of trees, palms, and the base of shrubs to encourage air movement in this area which aids in lowering disease susceptibility. Cypress mulch is prohibited on state right of way.

## **PRUNING**

All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute (ANSI) A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, to specific pruning heights maintaining clear visibility for motorists, and provide vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions, and all trees and palms must be maintained to prevent potential roadway and pedestrian hazards, all palms are to be kept fruit free. The specific pruning heights are determined by understanding the designer's intent when selecting and placing the plants. The intended mature maintained height and spread of plants are noted on the plans (See Exhibit B.) and see Part II. Specific Requirements and Recommendations for guidelines. The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) are to be maintained at a height in compliance with *FDOT Design Standards* Index 546; Page 6 of 6, Window Detail. Vertical tree heights must meet *FDOT Maintenance Rating Program* (MRP) standards.

## **STAKING AND GUYING**

All staking materials, except for replacements, are to be removed by the completion of FDOT warranty period or at one year (whichever comes first). Any subsequent staking and guying activities by the Agency must adhere to *FDOT Design Standards* guidelines (See Index 544). The Agency shall closely monitor staking and guying attachment materials so that they are securely fastened to avoid potential roadway hazards.

## **TURF MOWING:**

All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a deep, healthy root system while providing a neat and clean appearance to the urban landscape. All turf efforts, mowing, curb/sidewalk edging and turf condition, must at a minimum, meet *FDOT Maintenance Rating Program* (MRP).

## **LITTER CONTROL:**

The project site shall remain as litter free as practicable. It is recommended to recycle this litter to avoid unnecessary waste by its reuse. Litter removal efforts must meet *FDOT Maintenance Rating Program* (MRP) standards.

### **WEEDING/HERBICIDE**

All planting areas shall be maintained as weed free as practicable by enlisting integrated pest management practices in areas specified on the plans and maintaining proper mulch levels. Extreme care is recommended if using a chemical herbicide to avoid overspray onto plant materials. It is the applicator's responsibility to restore any damage, resulting from overspray to the plantings, per the approved plans.

### **PLANT REPLACEMENT**

Plant replacement shall be the same species and specification as the approved plan. Move and replace all plant materials that may conflict with utility relocations and service. Only plants graded Florida #1 or better, per the *Florida Department of Agriculture and Consumer Services, Grades and Standards for Nursery Plants* are permitted on FDOT roadways. Should it become necessary to change the species, a general use permit is required from FDOT for approval by the FDOT District Landscape Architect.

### **HARDSCAPE (SPECIALTY SURFACING)**

All tree grates and specialty surfacing (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current *Interlocking Concrete Pavement Institute (ICPI), Guide Specifications for Pavers on an Aggregate Base, Section 23 14 13 Interlocking Concrete Pavers*, Part 3.05. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

### **HARDSCAPE (NON-STANDARD) TRAVELWAY SURFACING**

It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway, including asphalt pavement (if applicable), caused or contributed by the installation or failure of non-standard surfacing, and/or the header curb, on the Department of Transportation right-of-way within the limits of this Agreement. Pavement restoration areas or "patches" will have a minimum length of 10-ft, measured from the edge of the header curb, and a width to cover full lanes for each lane affected by the restoration.

Pavement restoration will be performed in accordance with the most current edition of the *FDOT Standard Specifications for Road and Bridge Construction*, and the *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System*.

It shall be the responsibility of the AGENCY to maintain all signs located within a non-standard surfacing area. Such maintenance to be provided by the AGENCY shall include repair and replacement of the sign panel, post, and base.

### **HARDSCAPE (LANDSCAPE ACCENT LIGHTING)**

Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan. Landscape lighting shall meet requirements for the sea turtle nesting and hatching.

### **MAINTENANCE OF TRAFFIC CONTROL**

Reference the FDOT website regarding the selection of the proper traffic control requirements to be provided during routine maintenance and / or new installations of this DOT roadway.

## **VEGETATION MANAGEMENT AT OUTDOOR ADVERTISING (ODA)**

To avoid conflicts with permitted outdoor advertising, please reference the State of Florida website regarding the vegetation management of outdoor advertising. This website provides a portal to search the FDOT Outdoor Advertising Inventory Management System Database. The database contains an inventory of outdoor advertising structures, permits and other related information maintained by the Department.

Also, reference the *Florida Highway Beautification Program* website link for "Vegetation Management at ODA signs" "Florida Statutes" and "Florida Administrative Code" related to vegetation management at outdoor advertising sign, permit applications for vegetation management and determining mitigation value of roadside vegetation.

## **II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS**

1. Maintain all Coconut trees without fruits and blooms
2. Maintain wave shape of Silver Button Wood hedge in medians per plans, maintain hedge height to a 36 inch maximum.



## REFERENCES

This reference list is provided as a courtesy. The list may not contain the most current websites. The most current references must be accessed for up to date information.

Accessible Sidewalk (ADA)

<http://www.access-board.gov/guidelines-and-standards/streets-sidewalks>

Americans with Disabilities Act (ADA) (ADAAG)

[http://www.ada.gov/2010ADAstandards\\_index.htm](http://www.ada.gov/2010ADAstandards_index.htm)

American National Standard Institute, *ANSI A300, (Part 1) for Tree Care Operations – Trees, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning)*, available for purchase

<http://webstore.ansi.org>

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Plants*

<http://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Bureaus-and-Services/Bureau-of-Plant-and-Apiary-Inspection/Plant-Inspection#pubs>

Florida Department of Community Affairs (DCA), *Florida Board of Building Codes & Standards, 2010 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A*

[http://www2.iccsafe.org/states/florida\\_codes/](http://www2.iccsafe.org/states/florida_codes/)

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 544 Landscape Installation*

<http://www.dot.state.fl.us/rddesign/DS/15/IDx/00544.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 546 Sight Distance at Intersections*

<http://www.dot.state.fl.us/rddesign/DS/15/IDx/00546.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 600 Traffic Control through Work Zones*

<http://www.dot.state.fl.us/rddesign/DS/15/IDx/00600.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 700 Roadside Offsets*

<http://www.dot.state.fl.us/rddesign/DS/15/IDx/00700.pdf>

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. I Chapter 2.11 Horizontal Clearance*

*Table 2.11.5 Horizontal Clearance to Trees*

*Table 2.11.11 Recoverable Terrain*

<http://www.dot.state.fl.us/rddesign/PPMManual/2014PPM.shtm>

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*

<http://www.dot.state.fl.us/specificationsoffice/Maintenance/Jul14/Files/SS5800000.doc>

<http://www.dot.state.fl.us/specificationsoffice/Implemented/Workbooks/JulWorkbook2014/Files/S5800000FA.pdf>

Florida Department of Transportation, Landscape Architecture Website

[www.MyFloridaBeautiful.com](http://www.MyFloridaBeautiful.com)

Florida Department of Transportation, *Maintenance Rating Program Handbook*

<http://www.dot.state.fl.us/statemaintenanceoffice/MaintRatingProgram.shtm>

Florida Department of Transportation Outdoor Advertising Database

<http://www2.dot.state.fl.us/rightofway/>

Florida Exotic Pest Plant Council Invasive Plant Lists

<http://www.fleppc.org/list/list.htm>

Florida Irrigation Society

<http://www.fisstate.org>

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place*

[http://www.fpl.com/residential/trees/right\\_tree\\_right\\_place.shtml](http://www.fpl.com/residential/trees/right_tree_right_place.shtml)

A Guide to Roadside Vegetation Management

[http://www.dot.state.fl.us/statemaintenanceoffice/DOT%20Final%20\(3\)Turf%20Management%20Guide%20UF.pdf](http://www.dot.state.fl.us/statemaintenanceoffice/DOT%20Final%20(3)Turf%20Management%20Guide%20UF.pdf)

Interlocking Concrete Pavement Institute (ICPI)

<http://www.icpi.org/>

International Society of Arboriculture (ISA)

[www.isa-arbor.com](http://www.isa-arbor.com)

UF IFAS: *Selecting Tropical and Subtropical Tree Species for Wind Resistance*

<http://edis.ifas.ufl.edu/pdf/FR/FR17500.pdf>

U.S. Department of Transportation, Federal Highway Administration, *Manual on Uniform Traffic Control Devices*

<http://www.mutcd.fhwa.dot.gov>

**SECTION No.(s):** 860500  
**S.R. No.(s):** A1A  
**FM No:** 433688-6-52-01  
**COUNTY:** BROWARD COUNTY

**EXHIBIT D**

**APPROXIMATE COST FOR LANDSCAPE IMPROVEMENTS**

This Exhibit forms an integral part of the DISTRICT FOUR (4) LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

**\$973,204.00**



OPINION OF CONSTRUCTION COST

PROJECT STATE ROAD No(s): STATE ROAD A1A  
 MAINTENANCE LIMITS: FROM N.E. 9th ST (M.P. 3.248) TO N.E. 18TH ST (M.P. 4.322)  
 FM No(s): 433688-6-52-01  
 MAINTAINING AGENCY: CITY OF FORT LAUDERDALE  
 RLA OF RECORD: CHERYL C. CALLENDER  
 DATE: 30-Jan-15

	DESCRIPTION	SPECIFICATION	UNIT	QTY	UNIT PRICE MAT. & LAB	SUB-TOTAL
	MOBILIZATION	10% PLANT AND IRRIGATION COST	LS	1		\$77,238
	MAINTENANCE OF TRAFFIC	10% PLANT AND IRRIGATION COST	LS	1		\$77,238
	<b>LARGE PLANTS</b>					<b>\$573,838</b>
CN	COCOS NUCIFERA 'GREEN MALAYAN' (GREEN MALAYAN COCONUT)	14 FT GW	EA	153	\$2,493.40	\$381,490
CNT	COCOS NUCIFERA 'GREEN MALAYAN' (GREEN MALAYAN COCONUT)	18 FT GW	EA	60	\$3,205.80	\$192,348
	<b>SMALL PLANTS</b>					<b>\$148,546</b>
AB	AECHMEA BLANCHETIANA 'RASPBERRY' (RASPBERRY BROMELIAD)	3G		348	\$27.40	\$9,536
AG	ARACHIS GLABRATA (PERENNIAL PEANUT)	1G X 4 IN HT X 12IN SPR		2565	\$6.85	\$17,707
CG	CLUSIA GUTTIFERA 'NANA' (DWARF CLUSIA)	3G X 16IN HT X 16IN SPR		2348	\$13.70	\$32,168
CES	CONOCARPUS ERECTUS 'SERICEUS' (SILVER BUTTONWOOD)	3G X 18IN HT X 18IN SPR		2811	\$10.96	\$30,809
EG	EVOLVULUS GLOMERATUS - BLUE DAZE	1 G		1431	\$6.85	\$9,802
EL	ERNODEA LITTORALIS (BEACH CREEPER)	1 G		1962	\$6.85	\$13,440
FM	FICUS MICROCARPA 'GREEN ISLAND' (GREEN ISLAND FICUS)	3G X 18IN HT X 18IN SPR		1999	\$12.33	\$24,648
GM	GLANDULARIA MARITIMA (BEACH VERBENA)	1 G		1693	\$6.17	\$10,437
	IRRIGATION SYSTEM		LS	1	\$50,000.00	\$50,000
	SUBTOTAL					\$926,861
	CONTINGENCY 5%		LS	1		\$46,343
<b>GRAND TOTAL CONSTRUCTION=</b>						<b>\$973,204</b>