

SECTION No.(s): 860500
S.R. No.(s): A1A
FM No: 431204-2-52-01
COUNTY: BROWARD COUNTY

**DISTRICT FOUR (4) AMENDMENT NUMBER TEN (10) TO STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE
MEMORANDUM OF AGREEMENT**

THIS AMENDMENT Number Ten (10) 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 State Road 816 (Oakland Park Boulevard) (M.P. 5.382) to Flamingo Avenue (M.P. 6.418) 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 \$1,279.027.64.

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, the parties hereto have executed this Agreement on the day and year provided below.

AGENCY

CITY OF FORT LAUDERDALE, through its
CITY COMMISSIONERS

ATTEST:

By: _____
John "Jack" P. Seiler, Mayor

Jeffrey A. Modarelli, City Clerk

_____ day of _____, 2016

(SEAL)

Lee R. Feldman, City Manager

Approved as to form by Office of City Attorney

By: _____
Cole J. Copertino, Assistant City Attorney

DEPARTMENT

ATTEST:

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

Executive Secretary

By: _____
Director of Transportation Development

_____ day of _____, 2016

Approval:

Office of the General Counsel (Date)

SECTION No.(s): 860500
S.R. No.(s): A1A
FM No: 431204-2-52-01
COUNTY: BROWARD COUNTY

EXHIBIT A

LANDSCAPE IMPROVEMENTS PROJECT LIMITS MAINTENANCE BOUNDARIES LIMITS AND LOCATION MAP

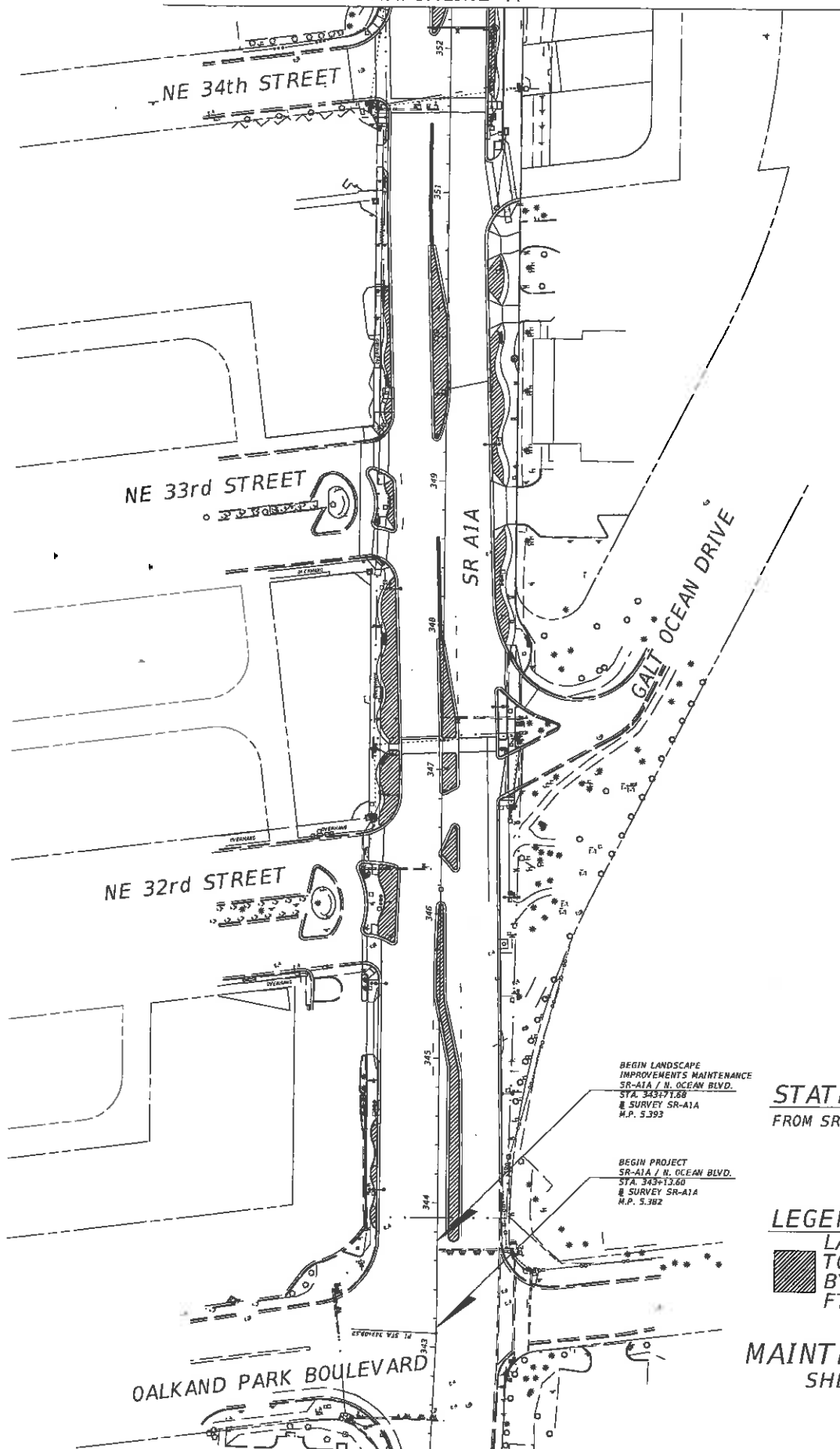
- I. **LANDSCAPE PROJECT LIMITS:**
State Road A1A from State Road 816 (Oakland Park Boulevard) (M.P. 5.392) to Flamingo Avenue (M.P. 6.418)
- II. **INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS:**
State Road A1A: From State Road 5 (US 1) (M.P. 0.000) (Section 86180000) (US 1) to Flamingo Avenue (M.P. 6.410) (Section 86050000)

North Fort Lauderdale Beach Area (Section 86050000)
M.P. 2.039 (South of Poinsettia Street) to M.P. 6.410 (Flamingo Avenue)
- III. **MAINTENANCE BOUNDARY LIMITS MAP:**

*All limits of the original agreement and amendments shall apply

Please See Attached

MATCHLINE 'A'

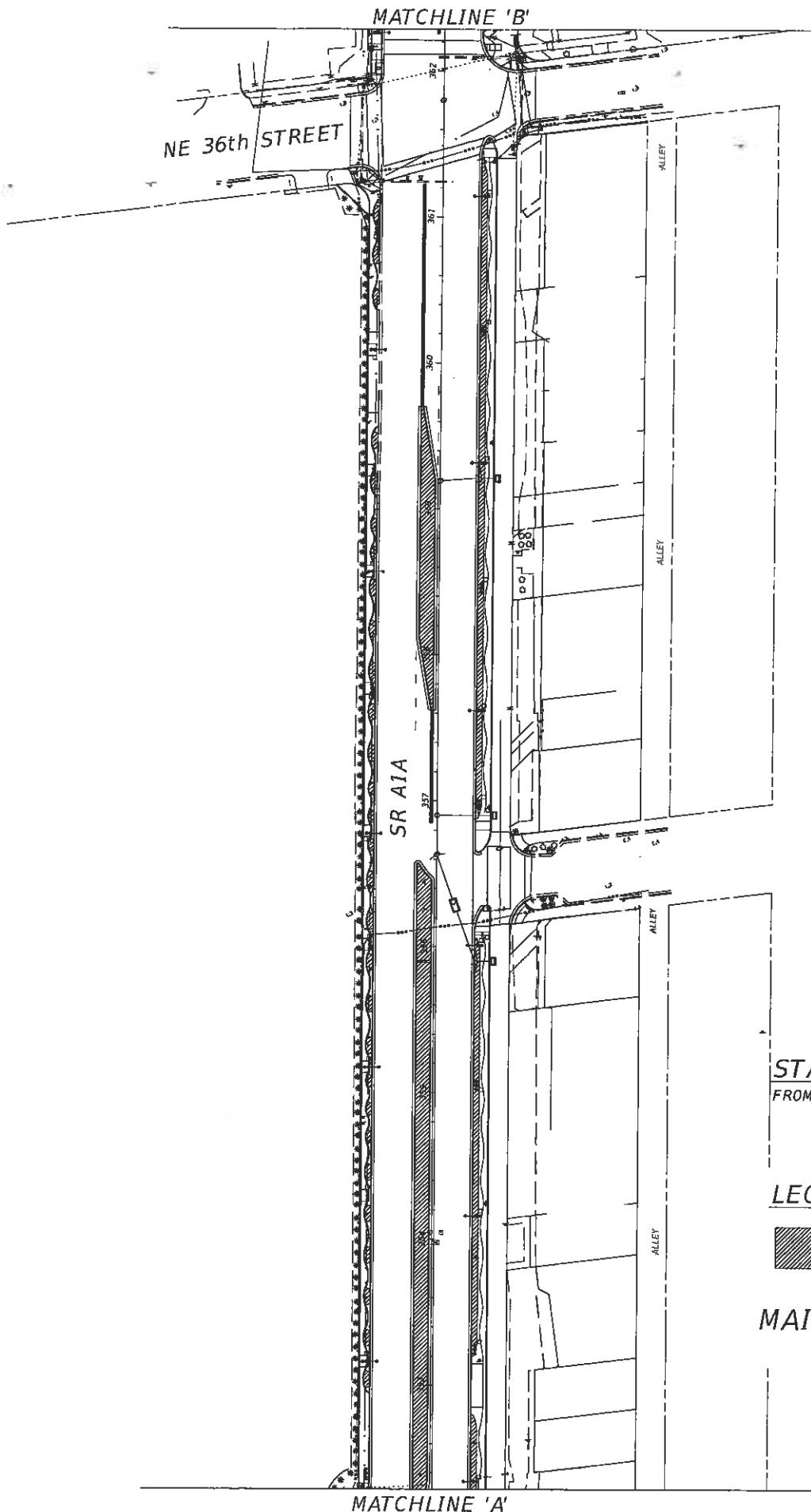


STATE ROAD A1A
FROM SR 816 TO FLAMINGO AVE

LEGEND

LANDSCAPE AREA
TO BE MAINTAINED
BY THE CITY OF
FT. LAUDERDALE

MAINTENANCE MAP
SHEET 1 OF 6

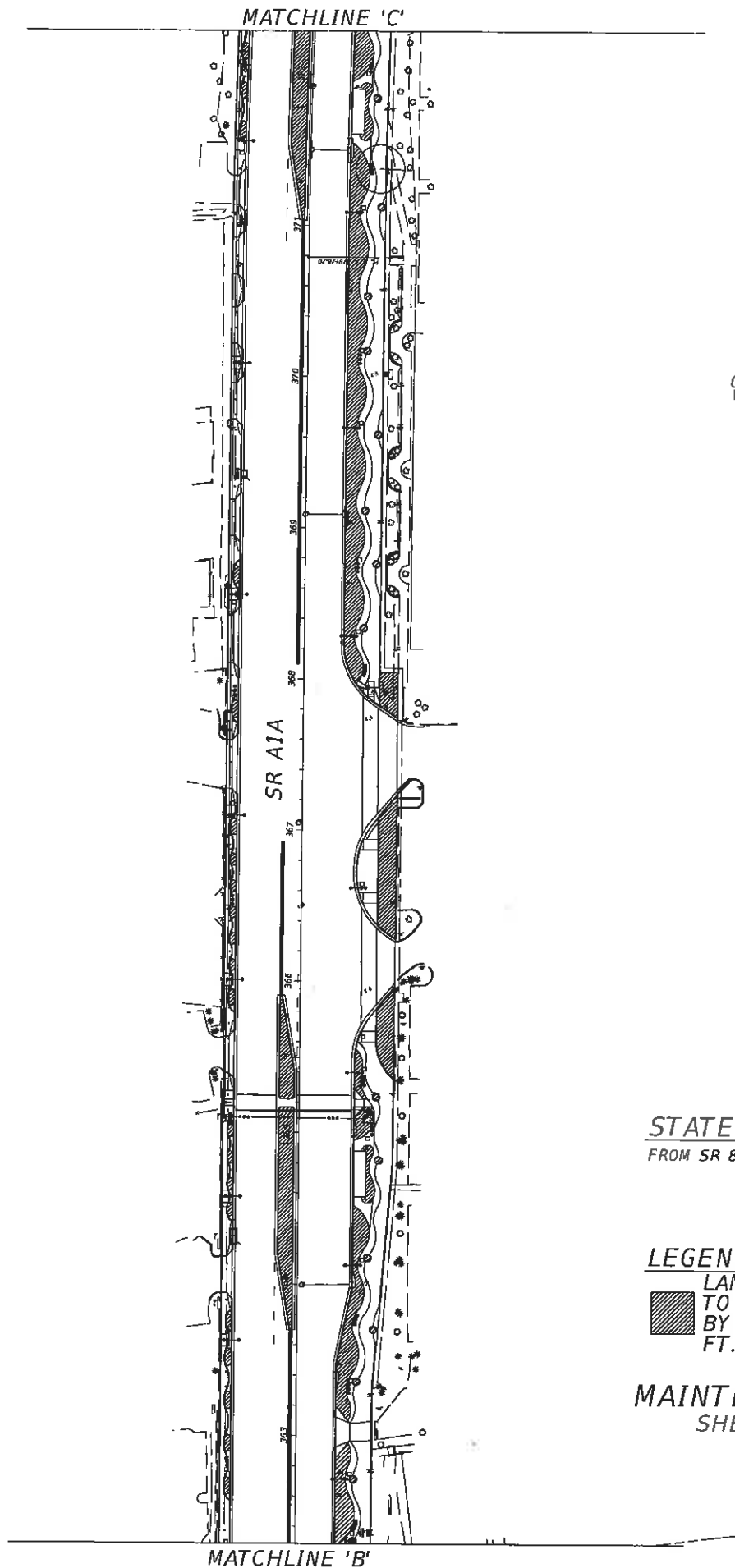


STATE ROAD A1A
FROM SR 816 TO FLAMINGO AVE

LEGEND

 LANDSCAPE AREA
TO BE MAINTAINED
BY THE CITY OF
FT. LAUDERDALE

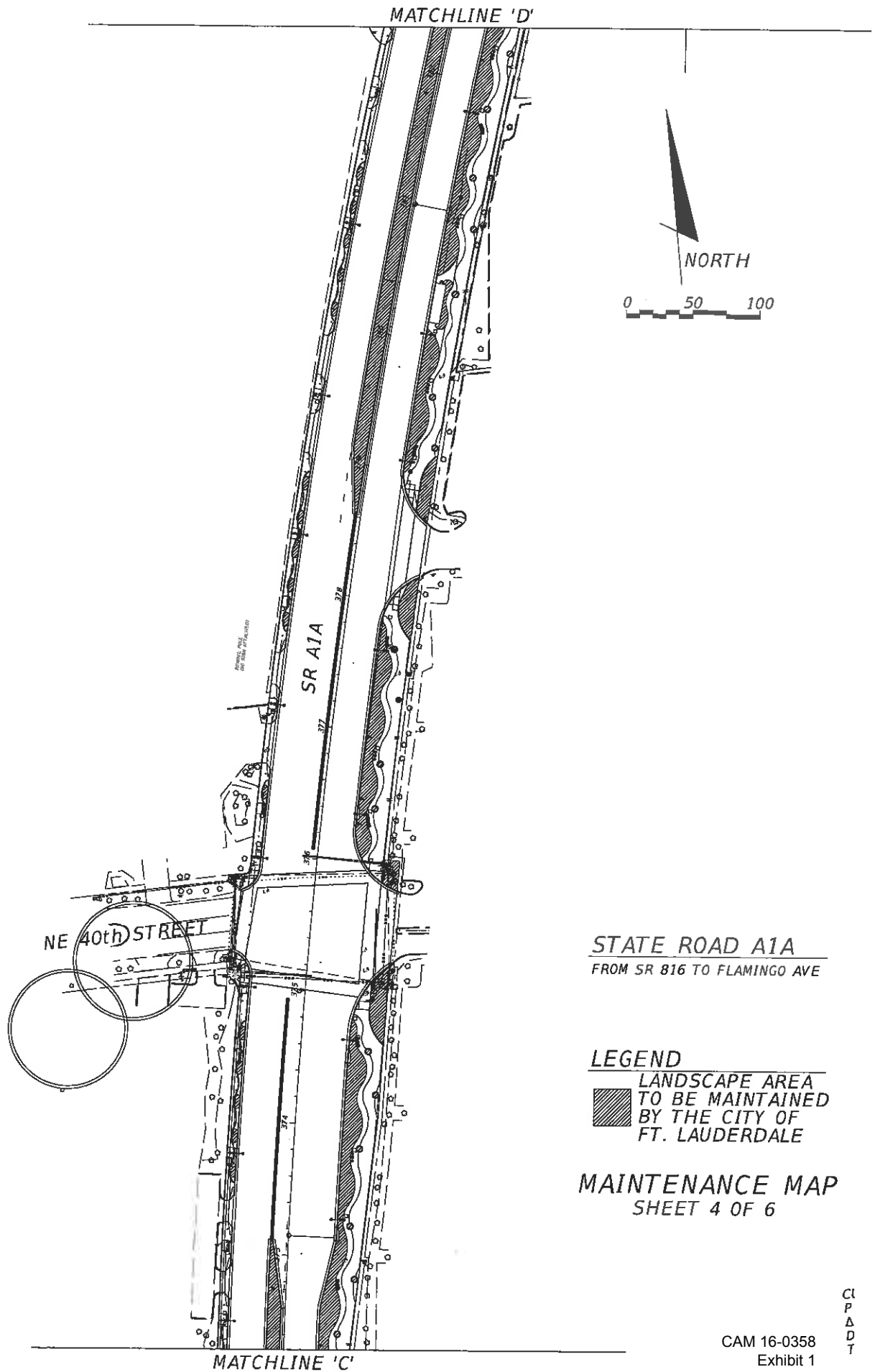
MAINTENANCE MAP
SHEET 2 OF 6



STATE ROAD A1A
FROM SR 816 TO FLAMINGO AVE

LEGEND
 LANDSCAPE AREA
TO BE MAINTAINED
BY THE CITY OF
FT. LAUDERDALE

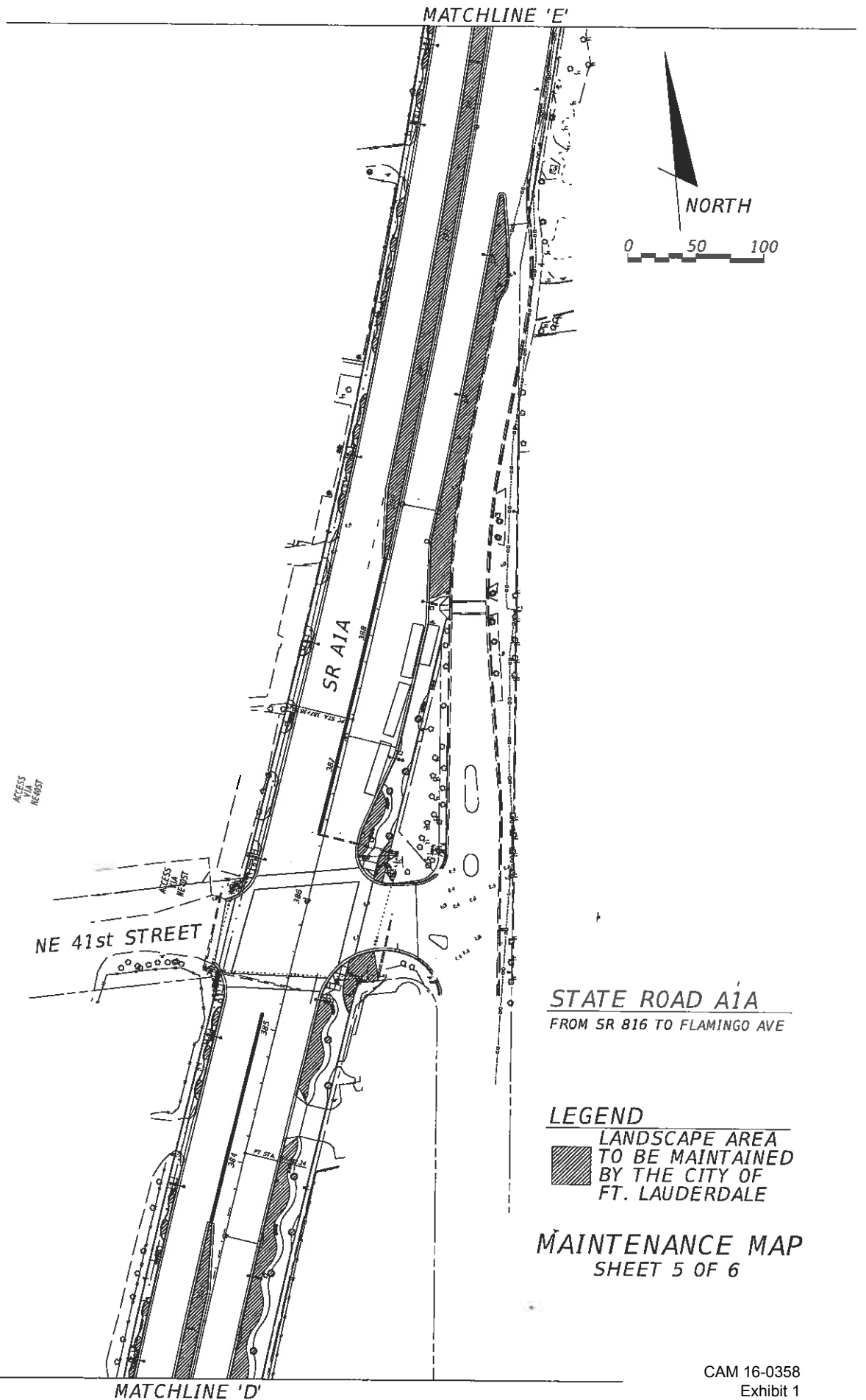
MAINTENANCE MAP
SHEET 3 OF 6

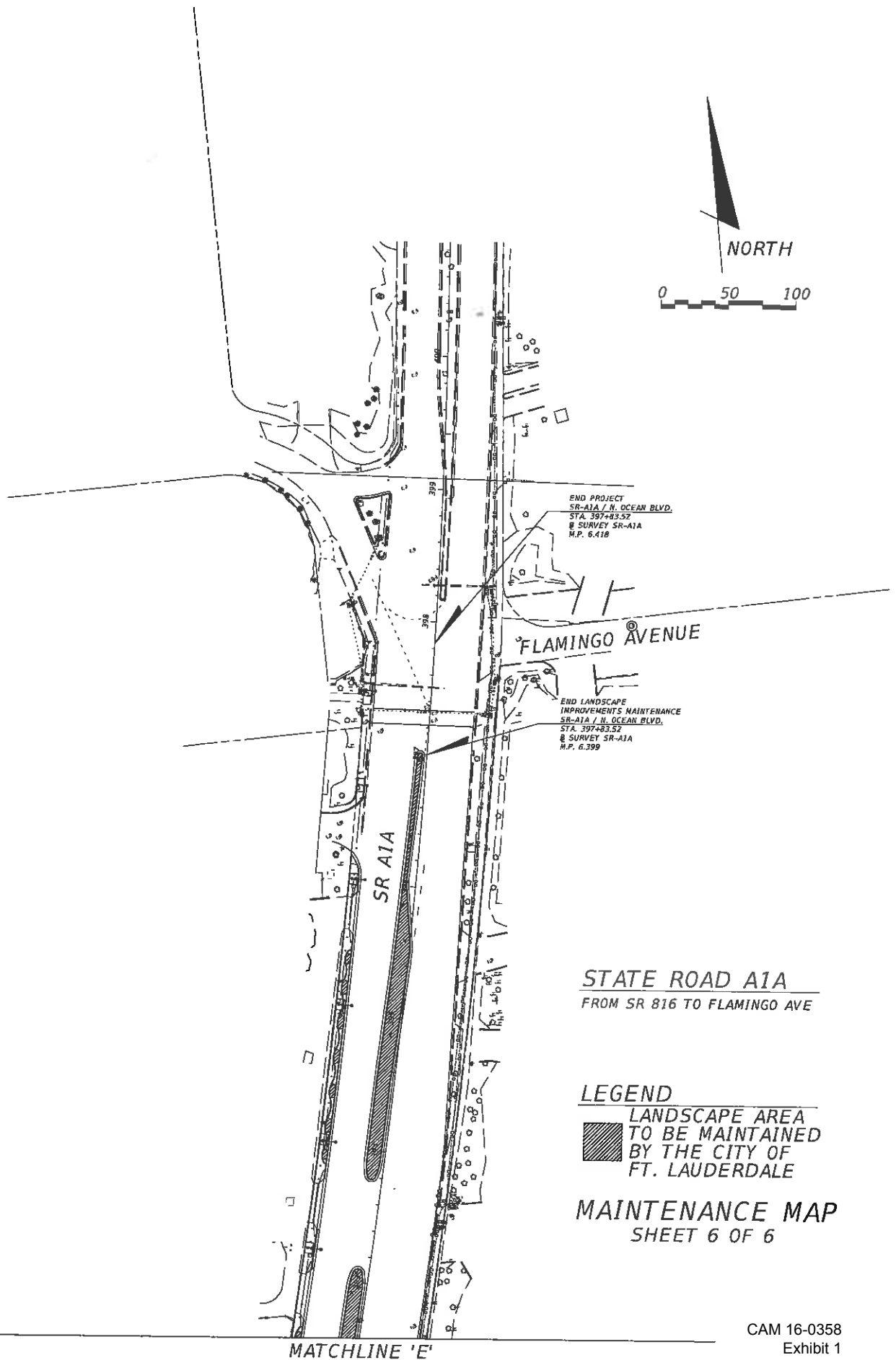


STATE ROAD A1A
FROM SR 816 TO FLAMINGO AVE

LEGEND
LANDSCAPE AREA
TO BE MAINTAINED
BY THE CITY OF
FT. LAUDERDALE

MAINTENANCE MAP
SHEET 4 OF 6





SECTION No.(s): 860500
S.R. No.(s): A1A
FM No: 431204-2-52-01
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: Atkins North America Inc.,
Harry L. Belton, R.L.A 0000900
Date: February 11, 2016

Sheets LD -1 - 41
CLT 1 - 3

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	KEY SHEET
LD-2	SIGNATURE SHEET
LD-3	SUMMARY OF PAY ITEMS
LD-4	SUMMARY OF QUANTITIES
LD-5	TABULATION OF QUANTITIES / PLANT SCHEDULE
LD-6	PROJECT NOTES
LD-7 & LD-8	LANDSCAPE DETAILS
LD-9 THRU LD-22	IRRIGATION NOTES & DETAILS
LD-23	IRRIGATION PLAN
LD-24 THRU LD-37	STORMWATER POLLUTION PREVENTION PLAN
LD-38 THRU LD-41	TEMPORARY TRAFFIC CONTROL PLAN
CTL-1 THRU CTL-3	PROJECT SURVEY CONTROL

LIST OF REVISED INDEX DRAWINGS

INDEX NO.	SHEET NO.
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GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2016 Design Standards and
Revised Index Drawings as appended herein, and January 2016
Standard Specifications for Road and Bridge Construction, as
amended by Contract Documents.
For Design Standards click on the "Design Standards" link at the
following web site:
<http://www.dot.state.fl.us/rddesign/>
For the Standard Specifications for Road and Bridge Construction
click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specifications/>

TRANSPORTATION DESIGN FOR LIVABLE COMMUNITIES:
Contract Plans consider the standards set forth by
Florida Department of Transportation Plans Preparation
Manual, Volume 1, Chapter 21, Transportation Design for
Livable Communities.

REVISIONS
CAM 16-0358
Exhibit 1
Page 12 of 64

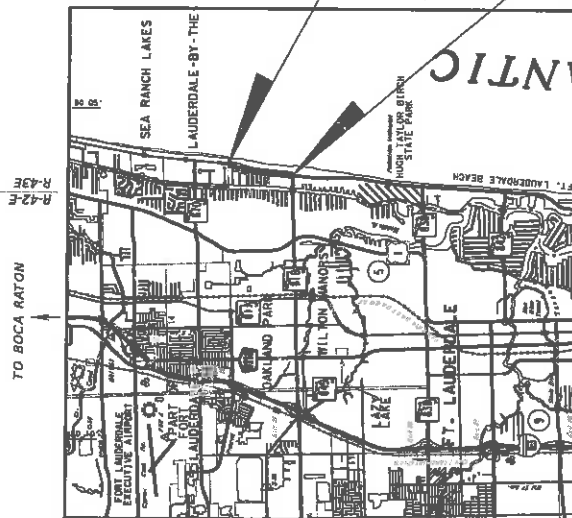
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 431204-2-52-01

BROWARD COUNTY (86050)

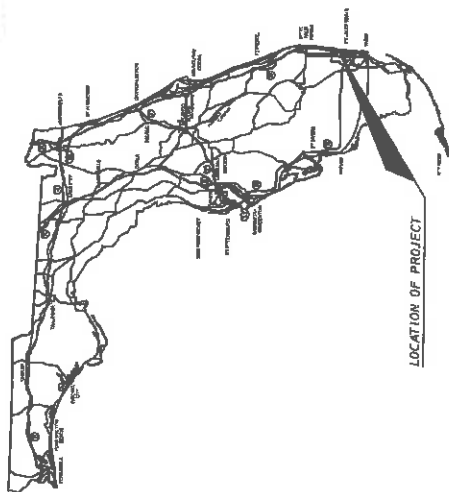
STATE ROAD NO. A1A
FROM OAKLAND PARK BOULEVARD TO FLAMINGO AVENUE



LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	5469.92	1.036
BRIDGES	0.000	0.000
NET LENGTH OF PROJECT	5469.92	1.036
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJECT	5469.92	1.036

FDOT PROJECT MANAGER: JAMES HUGHES, P.E.

CONSTRUCTION CONTRACT NO.



LOCATION OF PROJECT

LANDSCAPE SHOP DRAWINGS
TO BE SUBMITTED TO:

HARRY L. BELTON, R.L.A.
ATKINS NORTH AMERICA, INC.
3230 W. COMMERCIAL BLVD., SUITE 100
FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 733-7233

PLANS PREPARED BY:

ATKINS NORTH AMERICA, INC.
3230 W. COMMERCIAL BLVD., SUITE 100
FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 733-7233
VENDOR NO.: F-590-896-138
CONTRACT NO.: C9915
CERTIFICATE OF AUTHORIZATION NO. 24

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

CONSTRUCTABILITY SUBMITTAL
FEBRUARY 11, 2016

ROADWAY PLANS
ENGINEER OF RECORD: HARRY L. BELTON, R.L.A.

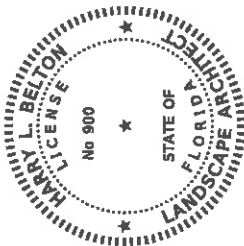
R.L.A. NO.: 900

FISCAL YEAR	SHEET NO.
16	LD-1

THIS DOCUMENT HAS BEEN SIGNED AND SEALED BY:

Harry L Belton

2016.02.17 14:45:49 -05'00'



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ATKINS
3230 W. COMMERCIAL BLVD., SUITE 100
FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 733-7233
VENDOR NO.: F-590-896-138-001
CERTIFICATE OF AUTHORIZATION NO. 24
HARRY L. BELTON, R.L.A. #900

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

LANDSCAPE PLANS:

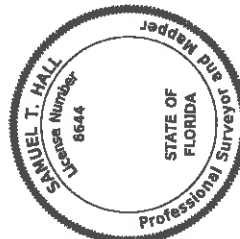
SHEET NO.

LD-1
LD-2
LD-3
LD-4
LD-5
LD-6
LD-7 - LD-8
LD-9 - LD-22
LD-23
LD-24 - LD-37

SHEET DESCRIPTION

KEY SHEET
SIGNATURE SHEET
TABULATION OF QUANTITIES / PLANT SCHEDULE
PROJECT NOTES
LANDSCAPE DETAILS
LANDSCAPE PLAN
IRRIGATION NOTES & DETAILS
IRRIGATION PLAN

THIS DOCUMENT HAS BEEN SIGNED AND SEALED BY:



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

WANTMAN GROUP, INC.
2035 VISTA PARKWAY, SUITE 100
WEST PALM BEACH, FLORIDA 33411
PHONE: (954) 733-7233
VENDOR NO.: 65-0271367
CERTIFICATE OF AUTHORIZATION NO. 7055
SAMUEL T. HALL, PSM #6644

THE ABOVE NAMED PROFESSIONAL SURVEYOR AND MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE RULE SJ-17.062, F.A.C.

LANDSCAPE PLANS:

SHEET NO.

CTL-1
CTL-2
CTL-3

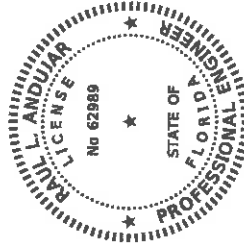
SHEET DESCRIPTION

PROJECT NETWORK CONTROL
SIGNATURE SHEET

THIS DOCUMENT HAS BEEN SIGNED AND SEALED BY:

Raul Andujar

2016.02.17 14:42:30 -05'00'



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ATKINS
3230 W. COMMERCIAL BLVD., SUITE 100
FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 733-7233
VENDOR NO.: F-590-896-138-001
CERTIFICATE OF AUTHORIZATION NO. 24
RAUL L. ANDUJAR, P.E. #62989

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE RULE 61G15-23.004, F.A.C.

LANDSCAPE PLANS:

SHEET NO.

LD-2
LD-3
LD-4
LD-39 - LD-39
LD-40 - LD-41

SHEET DESCRIPTION

SIGNATURE SHEET
SUMMARY OF PAY ITEMS
SUMMARY OF QUANTITIES
STORMWATER POLLUTION PREVENTION PLAN
TEMPORARY TRAFFIC CONTROL PLAN

DATE	DESCRIPTION	REVISIONS

ATKINS NORTH AMERICA, INC.
3230 W. COMMERCIAL BLVD., SUITE 100
FORT LAUDERDALE, FLORIDA 33309
FBPE CERTIFICATE OF AUTHORIZATION NO. 24

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
SR AIA BROWARD 431204-2-52-01

SIGNATURE SHEET

SHEET NO.

LD-2

2/11/2016 3:20:37 PM H:\Tandem\Tandem\331204\0501_S-AIA_Signature_Sheet.dwg Project\331204\0501

02/11/2016 11:10:02									
FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 431204-2-52-01									
LEAD PROJECT : 431204-2-52-01		DISTRICT : 04		COUNTY/SECTION : 86050000					
PROJECT(S) : 43120425201		COUNTY : BROWARD							
0200 SUMMARY OF ROADWAY									
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION				UNIT	43120425201	QUANTITY TOTAL
		0101- 1-	MOBILIZATION 43120425201				LS	1.000	1.000
		0102- 1-	MAINTENANCE OF TRAFFIC 43120425201				(LS)	1.000	1.000
		0102- 60-	WORK ZONE SIGN				ED	1.000	1.000
		0102- 74- 1	CHANNELIZING DEVICE- TYPES 1, 11, DI, VP, DRUM, OR LCD				ED	1.000	1.000
		0102- 74- 2	CHANNELIZING DEVICE, TYPE III, 6'				ED	1.000	1.000
		0102- 74- 6	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)				ED	1.000	1.000
		0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL				ED	1.000	1.000
		0102 89	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY				ED	1.000	1.000
		0107- 1-	LITTER REMOVAL				AC	1.000	1.000
		0107- 2	MOWING				AC	1.000	1.000
		0899- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID 43120425201				LS	1.000	1.000

02/11/2016 11:10:02 AM									
FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 431204-2-52-01									
LEAD PROJECT : 431204-2-52-01		DISTRICT : 04		COUNTY/SECTION : 86050000					
PROJECT(S) : 43120425201				COUNTY : BROWARD					
0600 SUMMARY OF LANDSCAPE / PERIPHERAL									
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION				UNIT	43120425201	QUANTITY TOTAL
		0580- 1- 1	LANDSCAPE COMPLETE- SMALL PLANTS 43120425201				LS	1.000	1.000
		0580- 1- 2	LANDSCAPE COMPLETE- LARGE PLANTS 43120425201				LS	1.000	1.000

CAM 16-0358
Exhibit 1
Page 14 of 64

DATE		DESCRIPTION		REVISIONS		ATKINS NORTH AMERICA, INC. 100 3230 W. UNIVERSITY BLVD. FORT LAUDERDALE, FLORIDA 33308 (954) 733-7233 FBPE CERTIFICATE OF AUTHORIZATION NO. 24 PAUL L. ANDUJAR, P.E. #62989		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 431204-2-52-01		SUMMARY OF PAY ITEMS		SHEET NO. LD-3
2/11/2016								378.27 PM		2/11/2016		LD-3

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I		PHASE II		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION DAYS	QUANTITY P	TOTAL P	DURATION DAYS	QUANTITY P	TOTAL P		
102-1	MAINTENANCE OF TRAFFIC	LS								
102-60	WORK ZONE SIGN	ED								
102-74-1	CHANNELIZING DEVICE- TYPES 1, 11, 1D, VP, DRUM, OR LCD	ED								
102-74-2	CHANNELIZING DEVICE - TYPE III, 6"	ED								
102-74-6	CHANNELIZING DEVICE- PEDESTRIAN LCD	ED								
102-76	ARROW BOARD / ADVANCED WARNING ARROW	ED								
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED								

SUMMARY OF LITTER REMOVAL AND MOWING													
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				CONSTRUCTION REMARKS
					AREA ID	CYCLES	AC/ CYCLE	AREA TOTAL (AC) P F	AREA ID	CYCLES	AC/ CYCLE	AREA TOTAL (AC) P F	
I	STA. TO STA.												
II	343+13.60 TO 397+83.52		40	30		2	1.000	1.000					
	343+13.60 TO 397+83.53		40	30		2	1.000	1.000					
SUB-TOTAL:								1.000				1.000	
TOTAL:								1.00				1.00	

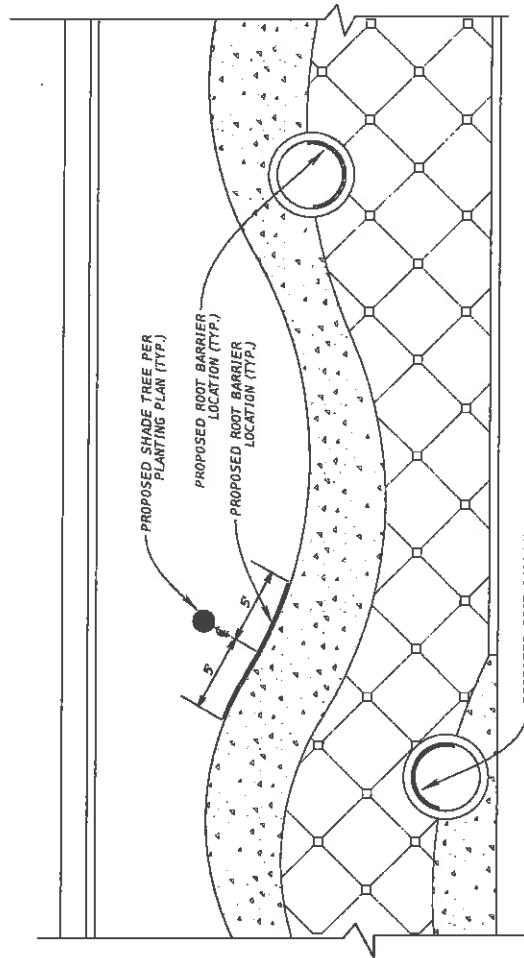
CAM 16-0358
Exhibit 1
Page 15 of 64

REVISIONS DATE DESCRIPTION		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID AIA BROWARD 431204-2-52-01		SUMMARY OF QUANTITIES SHEET NO. LD-4
ATKINS NORTH AMERICA, INC. 3230 LAUDERDALE BLVD. FORT LAUDERDALE, FLORIDA 33309 (954) 733-7233 FBPE CERTIFICATE OF AUTHORIZATION NO. 24 RAUL L. ANDUJAR, P.E. #62969		2/11/2018 3:20:28 PM H:\Transportation\31204252\31204252-01\Drawings\TDC\TDC4252-01		

PLANT SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	REMARKS	UNIT	SHEET LD-09	SHEET LD-10	SHEET LD-11	SHEET LD-12	SHEET LD-13	SHEET LD-14	SHEET LD-15	SHEET LD-16	SHEET LD-17	SHEET LD-18	SHEET LD-19	SHEET LD-20	SHEET LD-21	SHEET LD-22
BA	BULNESIA ARBOREA	VERAWOOD	12 HT. x 5 SPR.	2" CAL.	EA				1	1	3	1	2	2	2		2		
BS	BURSERIA SINARUBA	GUMBO LIMBO	16 HT. x 6 SPR.	4" CAL.	EA			1	8	4	6	6	14	3	13	6	10	6	2
CES	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTWOOD	12 HT. x 6 SPR.	STANDARD	EA						3	3	6		6		3		
CF	CAESALPINIA FERREA	BRAZILIAN IRONWOOD	12 HT. x 5 SPR.	2" CAL.	EA						2			1	1		1		
CNM	COCOS NUCIFERA 'MAYPAN'	MAYPAN COCONUT PALM	12-16' C.T.	SEE PLAN FOR HT'S	EA				4	2	7	5	8	6	15	4	10	1	
CS	CORDIA SEBESTIANA	GIEGER TREE	12 HT. x 5 SPR.	2" CAL.	EA				3	3	3	3	3	3	4				
PDM	PHOENIX DACTYLIFERA 'MEDJOOI'	MEDJOOI DATE PALM	16' C.T.	MATCHED	EA				3	4	4		2	4	1	3	3	4	
QV	QUERCUS VIRGINIANA	LIVE OAK	16 HT. x 5 SPR.	3" CAL.	EA				2	3	4	3	4	3	4	3	9	5	4
SP	SABAL PALMETTO	SABAL PALM	12-24' C.T.	SEE PLAN FOR HT'S	EA				1	6	5	1	4	8	3	9	5	4	9
TH	TABERNAEMONTANA	PINK TRUMPET TREE	12-24' C.T.	2" CAL.	EA				1	14	12	11	8	6	3	8	6	1	1
TR	THINAX HETEROPHYLLA	FLORIDA THATCH PALM	5-7' O.A.	STAGGER HIEGHTS	EA					3	2								
VM	VEITCHIA MONTGOMERYANA	MONTGOMERY PALM	6-12' GREY WOOD	SEE PLAN FOR HT'S	EA			17	12	8	16	7	11	9	3	7	3		
CA	CRINUM ASIATICUM	CRINUM LILY	30" HT. x 30" SPR.		EA				3			5	5	6	8	6	8		
CES	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTWOOD	18" HT. x 18" SPR.		EA					38	17	16		18		115	5	48	10
CI	CHRYSOBALANU ICACO 'RED TIP'	RED TIP COCOPLUM	18" HT. x 16" SPR.		EA				88	40	20		20		44	20	52	74	32
CYM	CODIAEUM VARIEGATUM 'MAMMEY'	MAMMEY CROTON	18" HT. x 16" SPR.		EA			19	5		15	20	33	17	25	21	23		
ING	IXORA 'NORA GRANT'	NORA GRANT IXORA	18" HT. x 16" SPR.		EA			7	28		22	36	13	12	20		20		
JB	JUSTICIA BRANDEGEANA	SHIP PLANT	16" HT. x 16" SPR.		EA						16	7	33	15	18	11			
PRC	PHILODENDRON 'ROJO CONGO'	ROJO CONGO PHILODENDRON	30" HT. x 30" SPR.		EA			3			3	3	3	3	5		5		
PX	PHILODENDRON 'XANADU'	XANADU PHILODENDRON	30" HT. x 30" SPR.		EA							5	5		8				
RE	RIAPIS EXCELSA	LADY PALM	24" HT. x 16" SPR.	3 STEMS MIN.	EA			5			3	5	8	3	3	5	5		
SR	STRELITZIA REGINAE	BIRD OF PARADISE	30" HT. x 30" SPR.		EA			3	8	8	7	3	14		9	5	9	4	
ZF	ZAMIA FURFURACEA	CARDBOARD PALM	30" HT. x 30" SPR.		EA			1	7	5	4	6				3	3	6	3
FMG	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS	16" HT. x 16" SPR.	24" O.C.	EA			201	86	250	270	212	136		340	215	272	225	60
JC	JUNIPERUS CONFERTA 'BLUE PACIFIC'	BLUE PACIFIC JUNIPER	8" HT. x 12" SPR.	18" O.C.	EA			170	520	420	412	145		68					
LM	LIRIOPE MUSCARI	LILY TURF	6" HT. x 6" SPR.	12" O.C.	EA				150			400	230	455	465	650	335	465	450
ME	MEPHILOLEPIS EXALTATA	BOSTON FERN	15" HT. x 15" SPR.	18" O.C.	EA			195	90			305	145						
NF	NEPHEGELLA 'FIREBALL'	FIREBALL BRONELIAD	6" HT. x 6" SPR.	12" O.C.	EA			25	295	345	290		295						
PN	PILEA MICROPHYLLA	ARTILLARY FERN	6" HT. x 6" SPR.	12" O.C.	EA			10	450	380	230		120		200	120	240	390	200
PT	PITTIOSPORUM TOBIRA 'VARIEGATA'	VARIEGATED PITTIOSPORUM	15" HT. x 15" SPR.	18" O.C.	EA			62	259	324	145			20				300	
	ROOT BARRIER			SEE PLANS	LF			54	10	35	282	190	251		190	317	203	233	176
	BONDED AGGREGATE			SEE PLANS	SF			123		41	607	421	294		246	354	231	294	395
	BENCHES			SEE PLANS	EA			3	2			3	1	2	3	2	2	2	

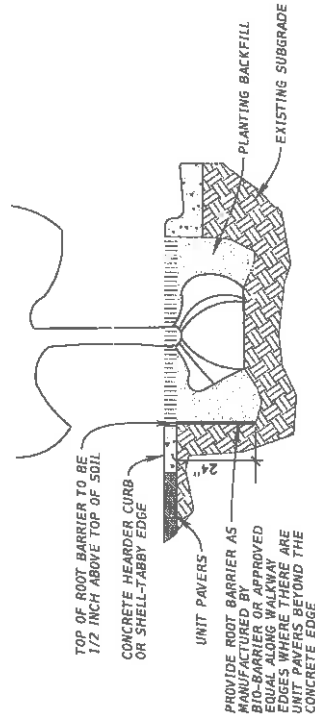
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- NOTE:
1. SEE DETAIL SHEET LD-7 FOR ROOT BARRIER LOCATIONS ON WEST SIDE OF ROADWAY
 2. SHADE TREE SPECIES FOR THIS DETAIL ARE:
BUASERA SIMARUBA, CAESALPINEA FERREA & QUERCUS VIRGINIANA

ROOT BARRIER LOCATIONS

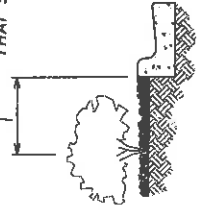
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ROOT BARRIER DETAIL

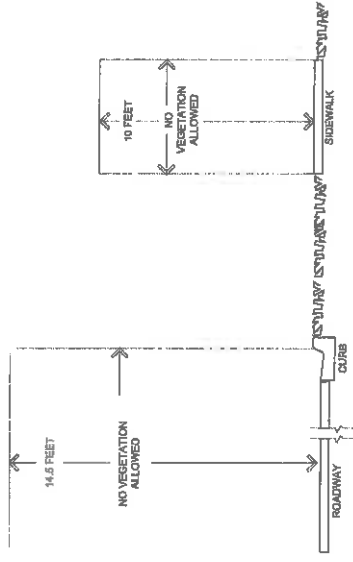
NOT TO SCALE

DO NOT PLANT SHRUBS OR
GROUNDCOVERS CLOSER TO CURB
THAN THE SPACING SHOWN FOR
THAT SPECIES ON THE PLANT SCHEDULE



CURB OFFSET DETAIL

NOT TO SCALE



MAINTENANCE RATING PROGRAM REQUIREMENTS

NOT TO SCALE

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

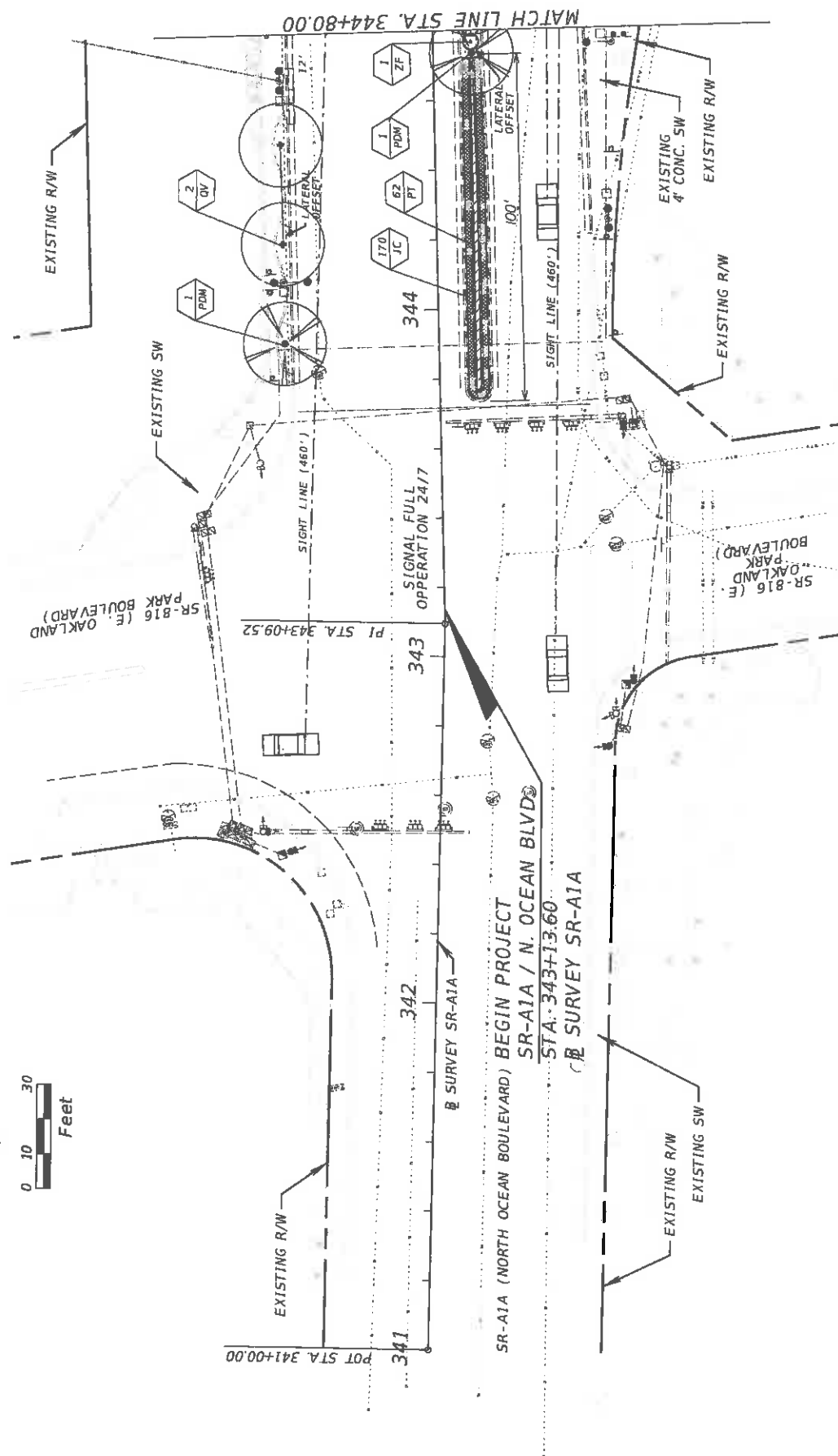
ATKINS NORTH AMERICA, INC.
3230 WEST COMMERCIAL BLVD., SUITE 100
FORT WORTH, TEXAS 76102
FBPE CERTIFICATE OF AUTHORIZATION No. 24
HARRY L. BELTON, R.L.A. 900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
A1A BROWARD 431204-2-52-01

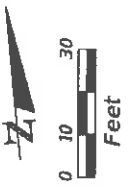
SHEET NO.
LD-8

LANDSCAPE DETAILS

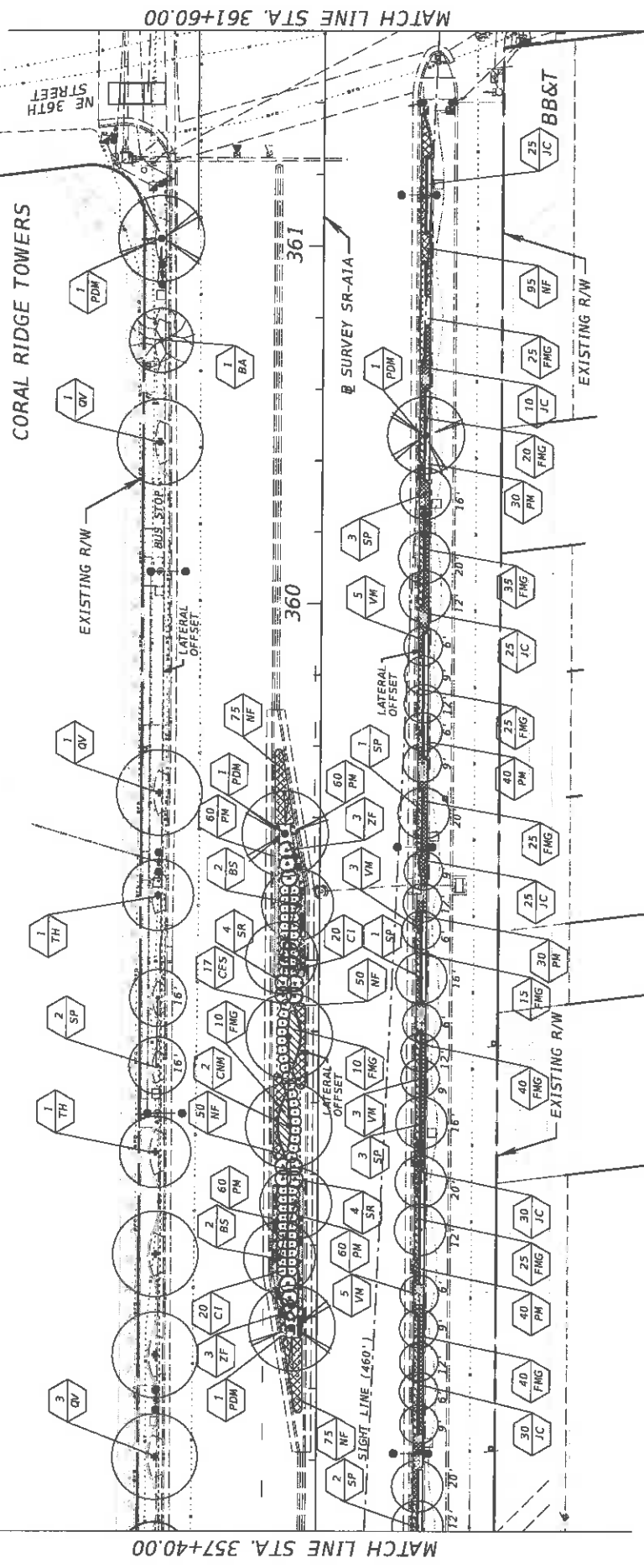
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16-0358 Exhibit 1 20 of 64			<table><tr><td colspan="2">REVISIONS</td><td rowspan="3">DESCRIPTION</td></tr><tr><td>DATE</td><td>DATE</td></tr><tr><td> </td><td> </td></tr></table>		REVISIONS		DESCRIPTION	DATE	DATE			ATKINS NORTH AMERICA, INC. 3230 EAST CHERRY AVE. SUITE 100 FORT LAUDERDALE, FL 33309 FBPE CERTIFICATE OF AUTHORIZATION No. 24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table><tr><td>ROAD NO.</td><td>COUNTY</td><td>FINANCIAL PROJECT ID</td></tr><tr><td>A4A</td><td>BROWARD</td><td>431204-2-52-01</td></tr></table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	A4A	BROWARD	431204-2-52-01	LANDSCAPE PLAN	SHEET NO. LD-9
REVISIONS		DESCRIPTION																			
DATE	DATE																				
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																			
A4A	BROWARD	431204-2-52-01																			



CORAL RIDGE TOWERS



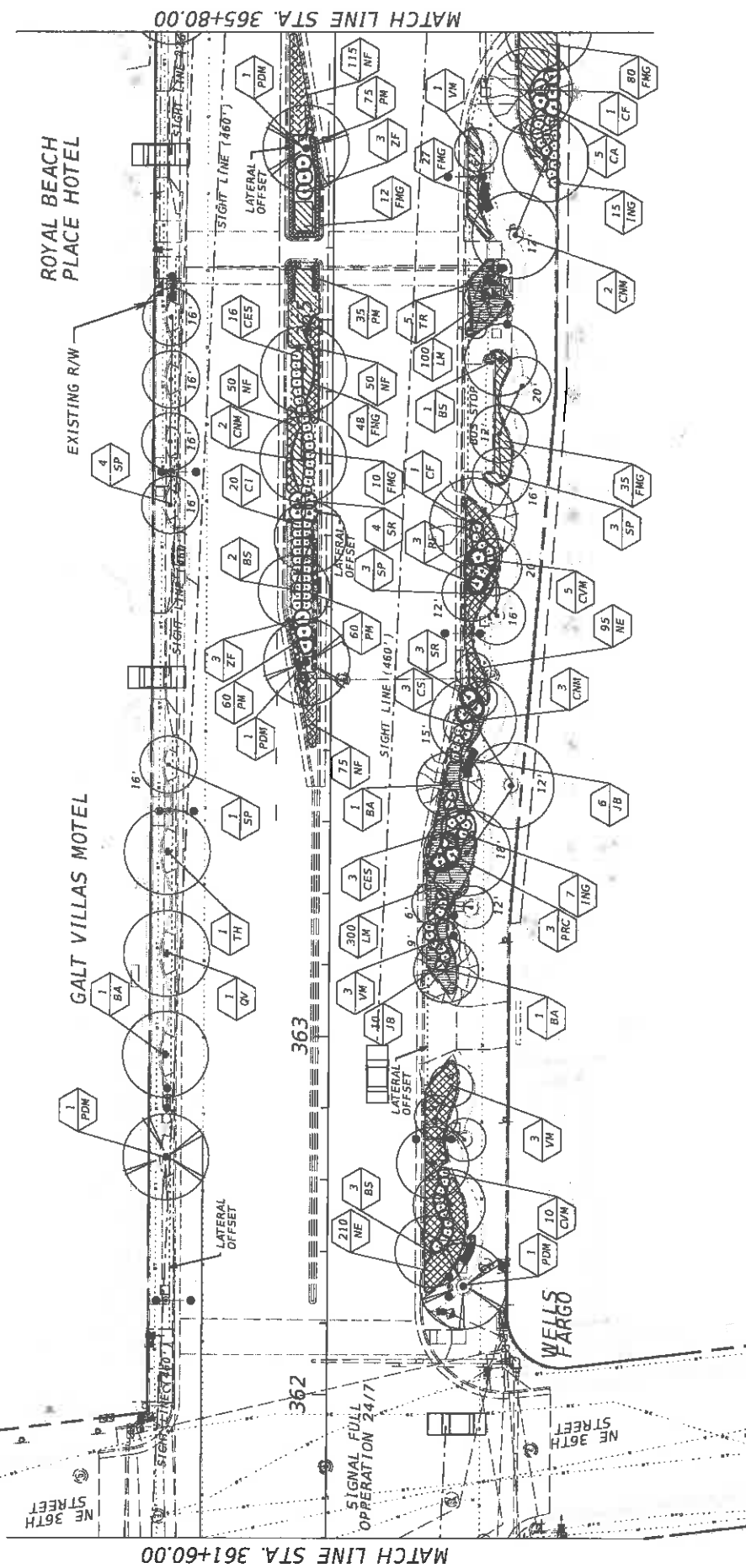
MATCH LINE STA. 357+40.00

MATCH LINE STA. 361+60.00

REVISIONS		DESCRIPTION		DATE	

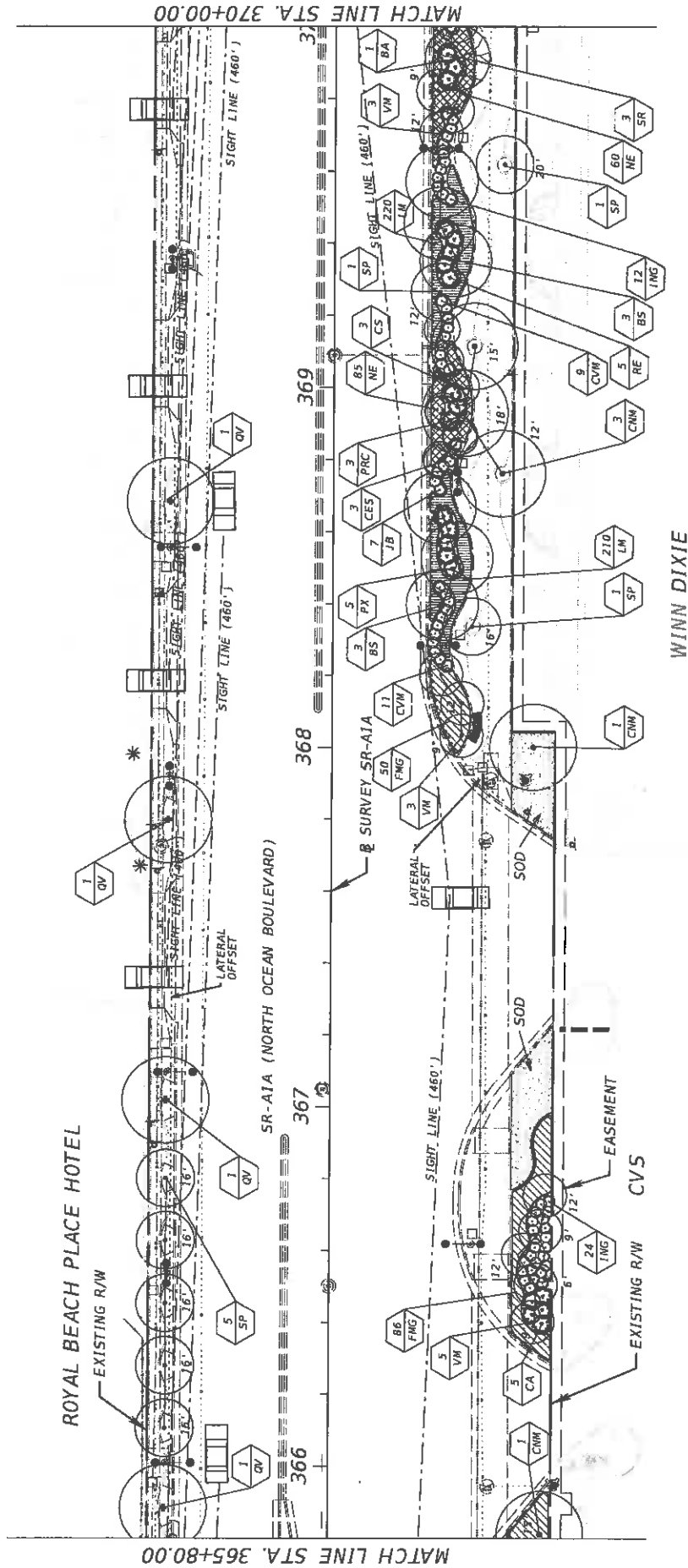
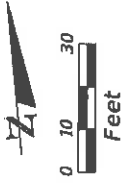
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				LANDSCAPE PLAN		SHEET NO. LD-13
ROAD NO. A1A	COUNTY BROWARD	FINANCIAL PROJECT ID 431204-2-52-01	DATE 2/11/2016	TIME 3:20 PM	PROJECT H:\Transportation\317042501_38-A1A Sand Along Landscape Project\317042501	PROJECT NO. LD-13

ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 300 FORT LAUDERDALE, FL 33309 FDOT CERTIFICATE OF AUTHORIZATION No. 24	HARRY L. BELTON, R.L.A. 900
--	-----------------------------



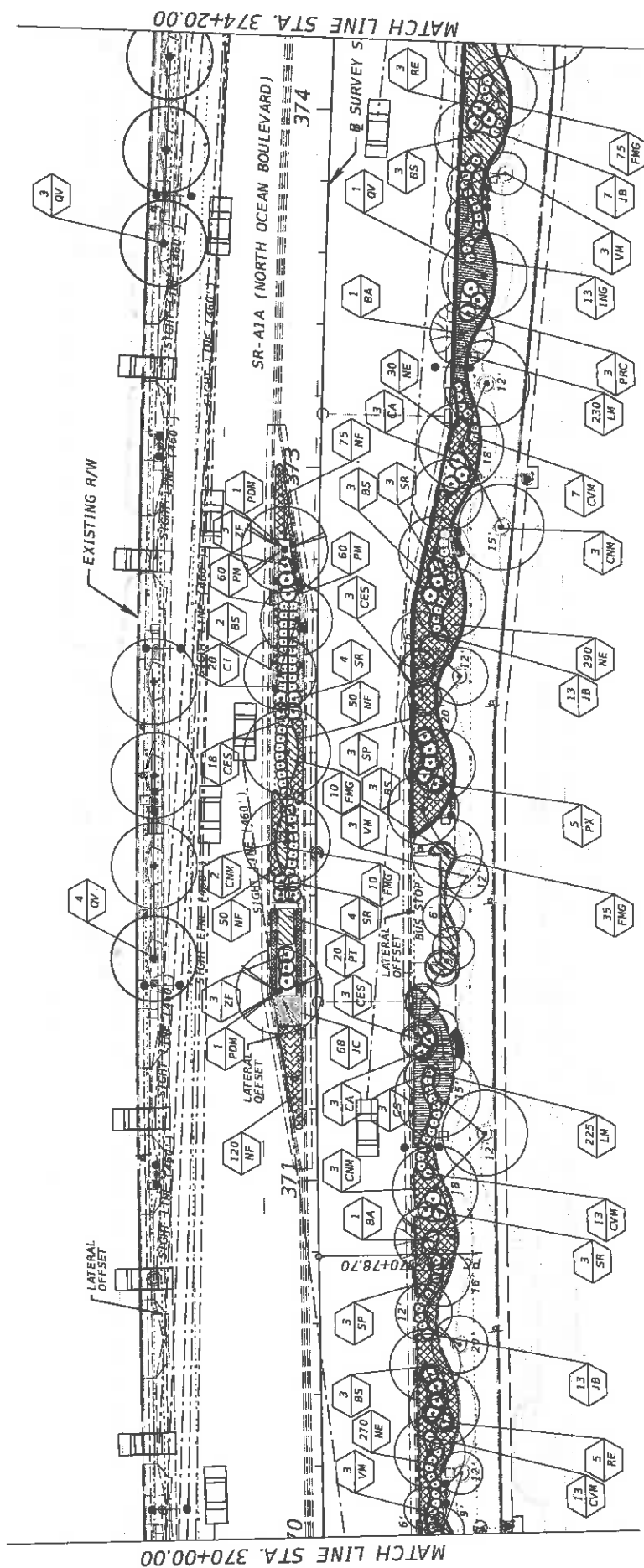
16-0358	DATE	REVISIONS		ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 FORT WORTH, TEXAS 76102 FBPE CERTIFICATE OF AUTHORIZATION No. 24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 431204-2-52-01	LANDSCAPE PLAN SHEET NO. LD-14
Exhibit 1	DESCRIPTION	DATE	DESCRIPTION			
25 of 64						

CAM 16-0358
Exhibit 1
Page 25 of 64



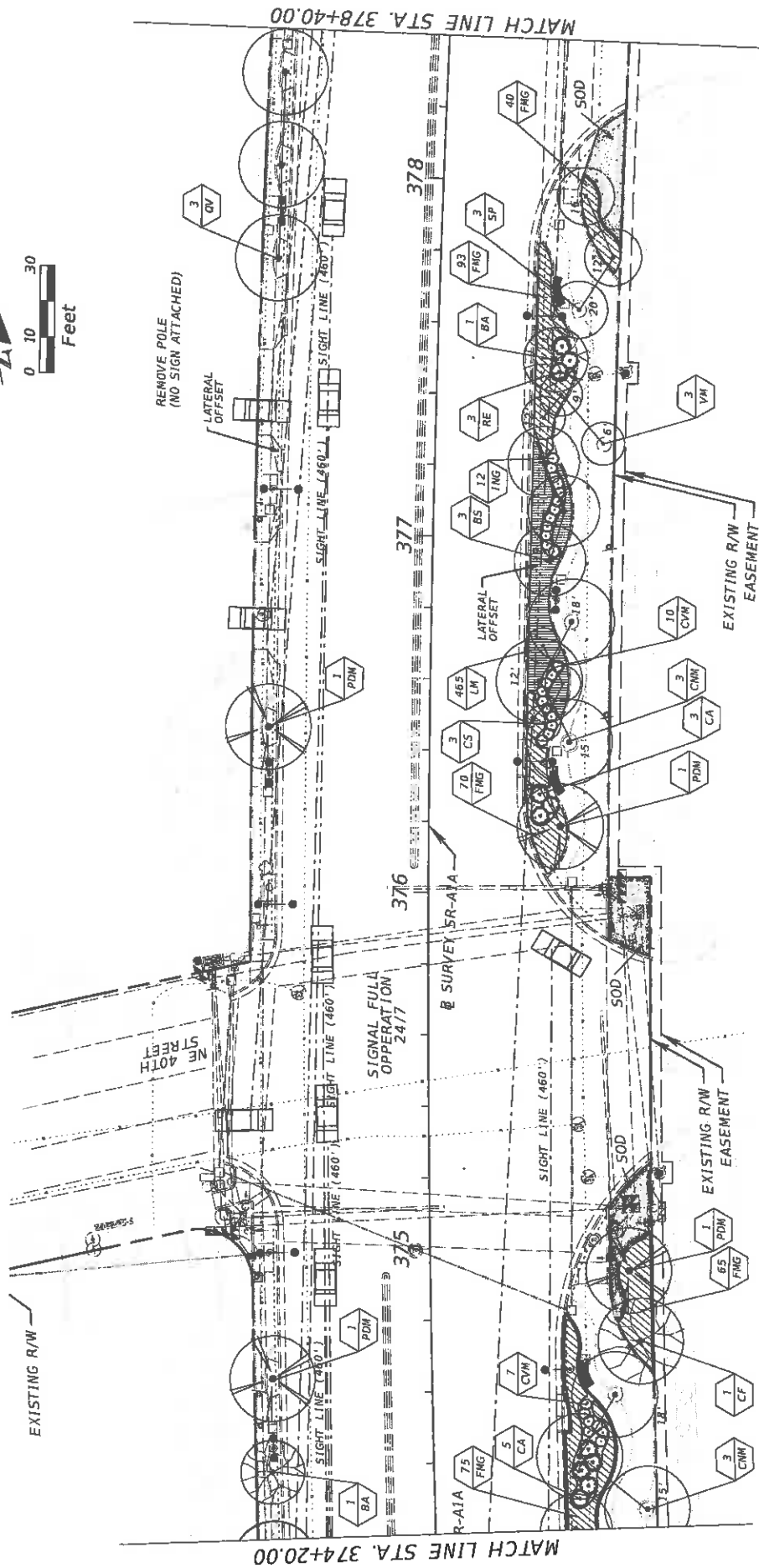
CAM 16-0358
Exhibit 1
Page 26 of 64

REVISIONS		STATE OF FLORIDA		LANDSCAPE PLAN		SHEET NO.	LD-15
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		ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 300 FORT PIERCE, FLORIDA 34945 FPEP CERTIFICATE OF AUTHORIZATION No. 24		DEPARTMENT OF TRANSPORTATION COUNTY			
		HARRY L. BELTON, R.L.A. 900		BROWARD			
		2/11/2016 3:20:46 PM		431204-2-52-01			
		R:\Transportation\31204\252\01_SR-A1A_Summary_Landscape_Plan.dwg					



6-0358 Exhibit 1 27 of 64		REVISIONS		ATKINS NORTH AMERICA INC. 3330 WESTERN BLVD., SUITE 400 COMMERCE, TEXAS 75541 FDOT UNDERSTATE PROJECT NO. 24 FBPE CERTIFICATE OF AUTHORIZATION No. 24		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		LANDSCAPE PLAN		SHEET NO. LD-16	
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	AIA	BROWARD	43204-2-52-01		

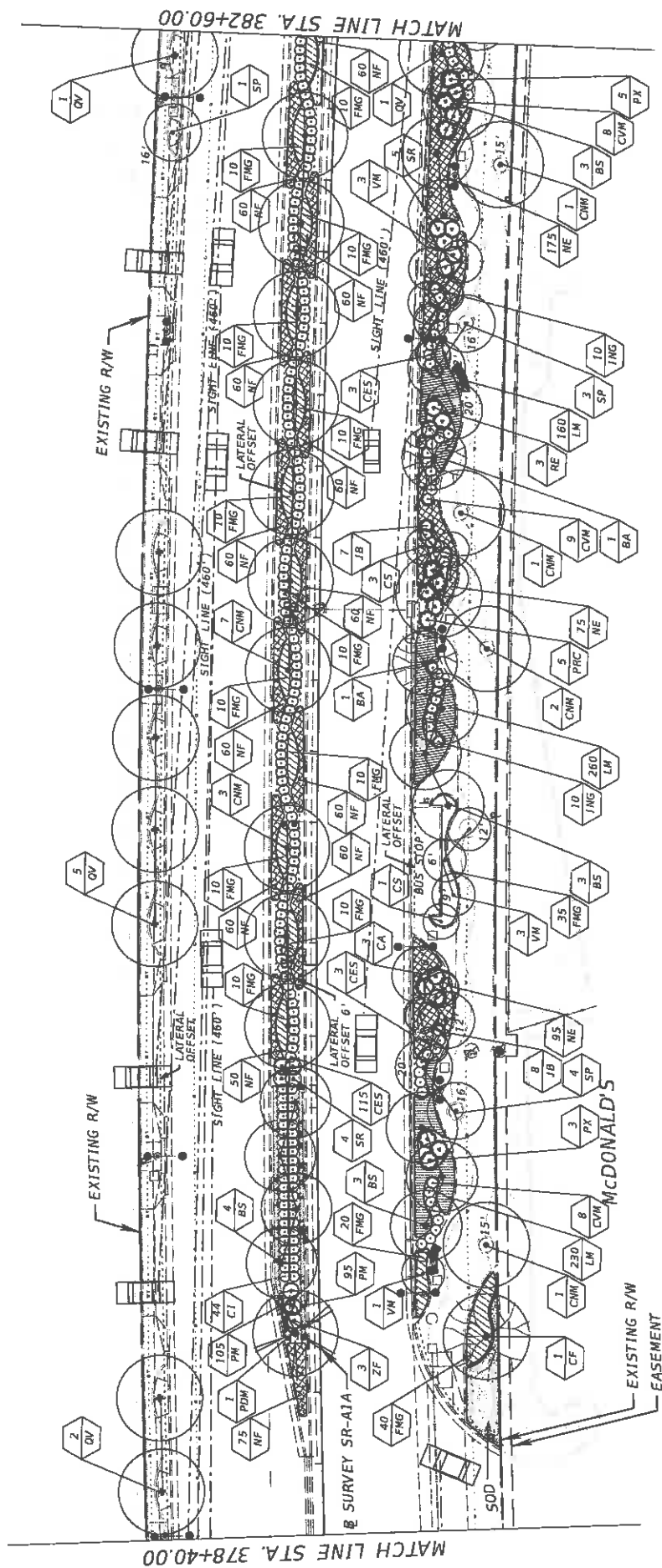
CAM 16-0358
Exhibit 1
Page 27 of 64



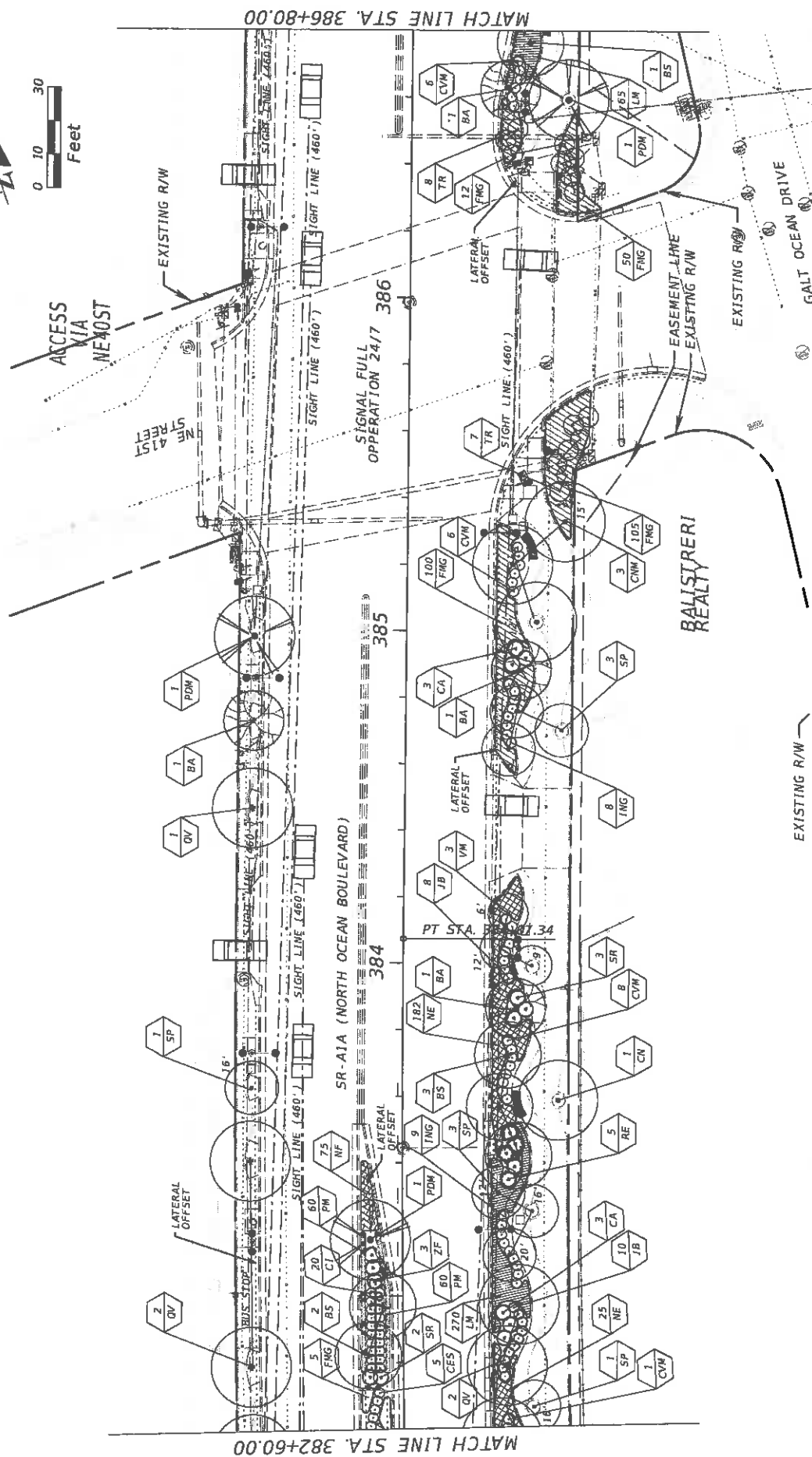
GALT OCEAN MARKETPLACE

CAM 16-0358
Exhibit 1
Page 28 of 64

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION
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STATES OF FLORIDA		LANDSCAPE PLAN	
DEPARTMENT OF TRANSPORTATION		SHEET NO. LD-17	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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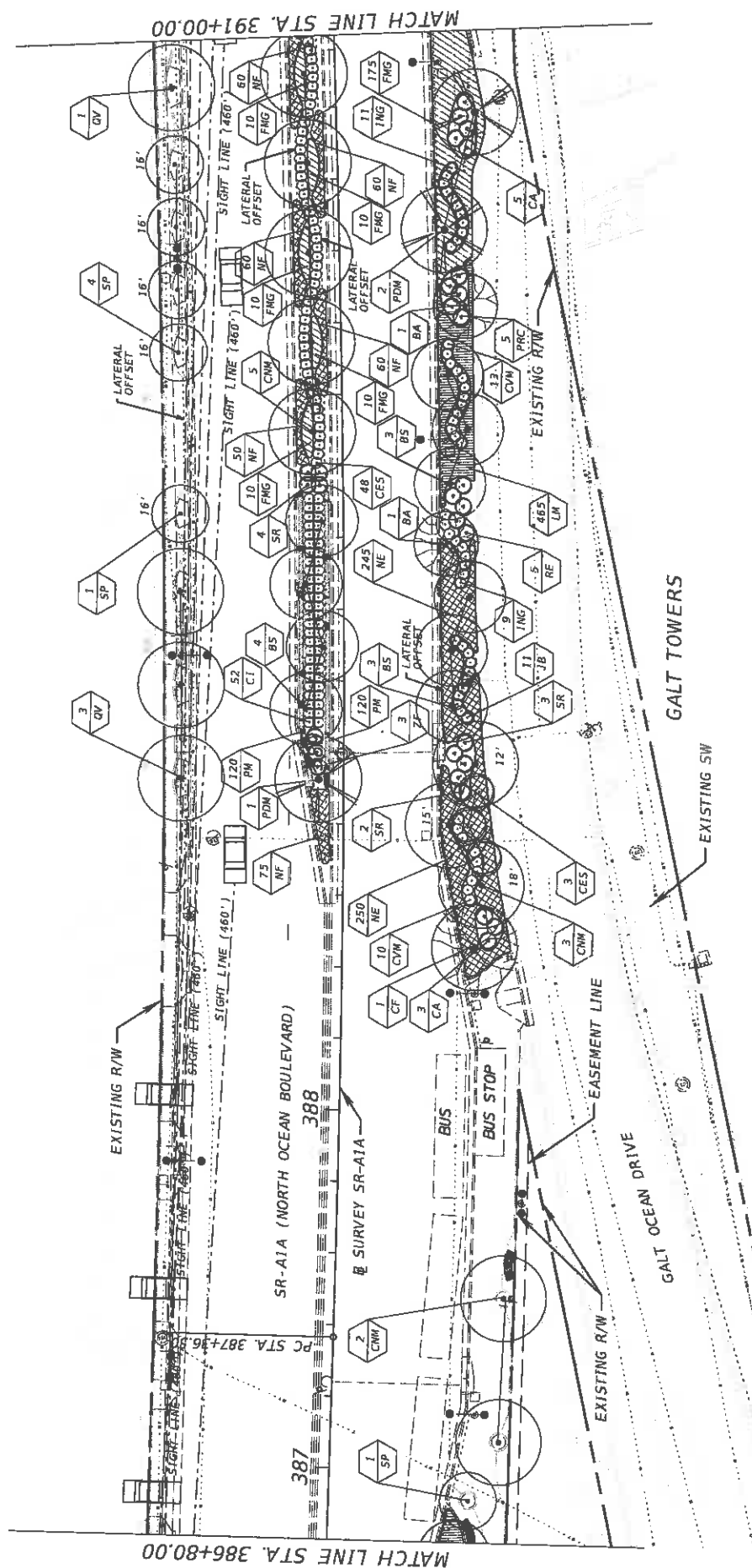
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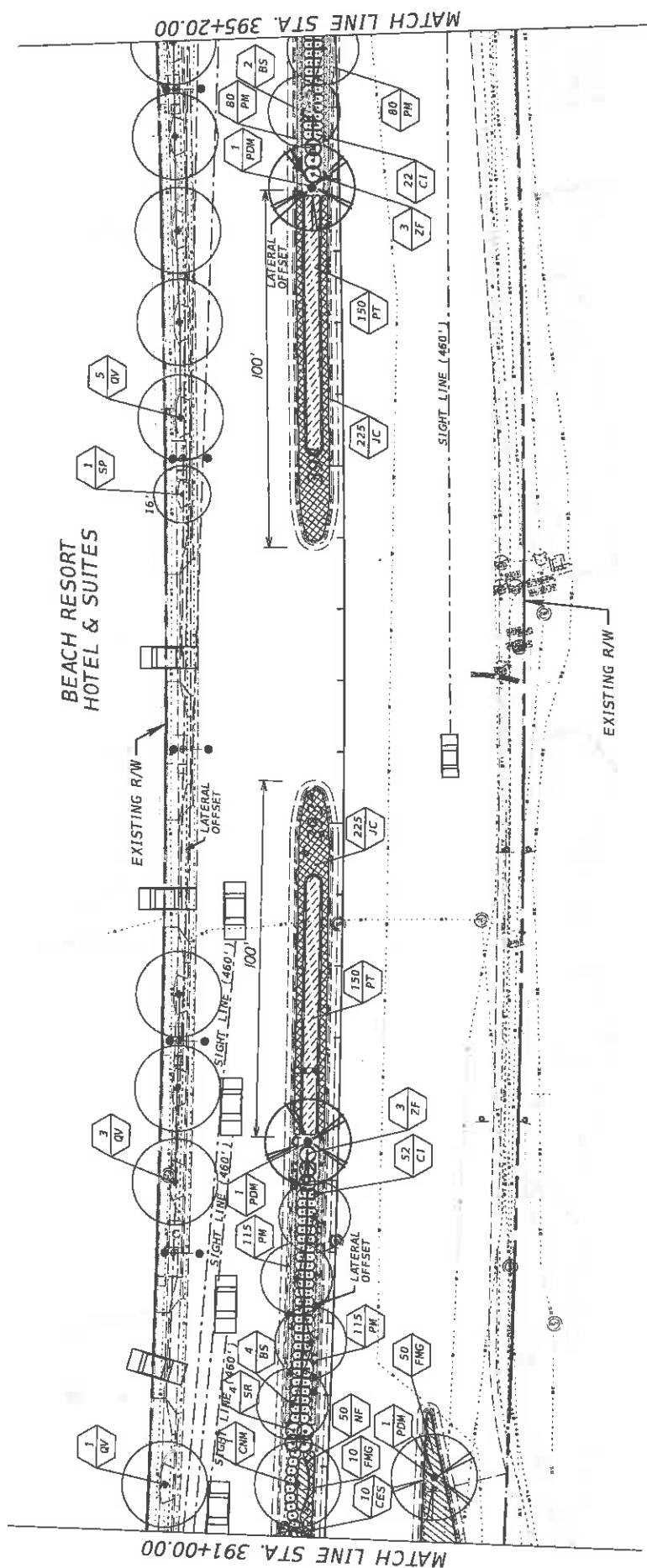
CAM 16-0358
Exhibit 1
Page 29 of 64



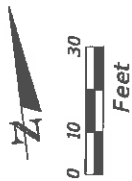
16-0358		Exhibit 1		30 of 64		REVISIONS		DATE		DESCRIPTION		ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 FORT WORTH, TEXAS 76102 FBPE CERTIFICATE OF AUTHORIZATION No. 24		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		LANDSCAPE PLAN		SHEET NO. LD-19	
												ROAD NO.		COUNTY		FINANCIAL PROJECT ID			
												ALA		BROWARD		437204-2-52-01			
												HARRY L. BELTON, RLA 900							

CAM 16-0358
Exhibit 1
Page 30 of 64

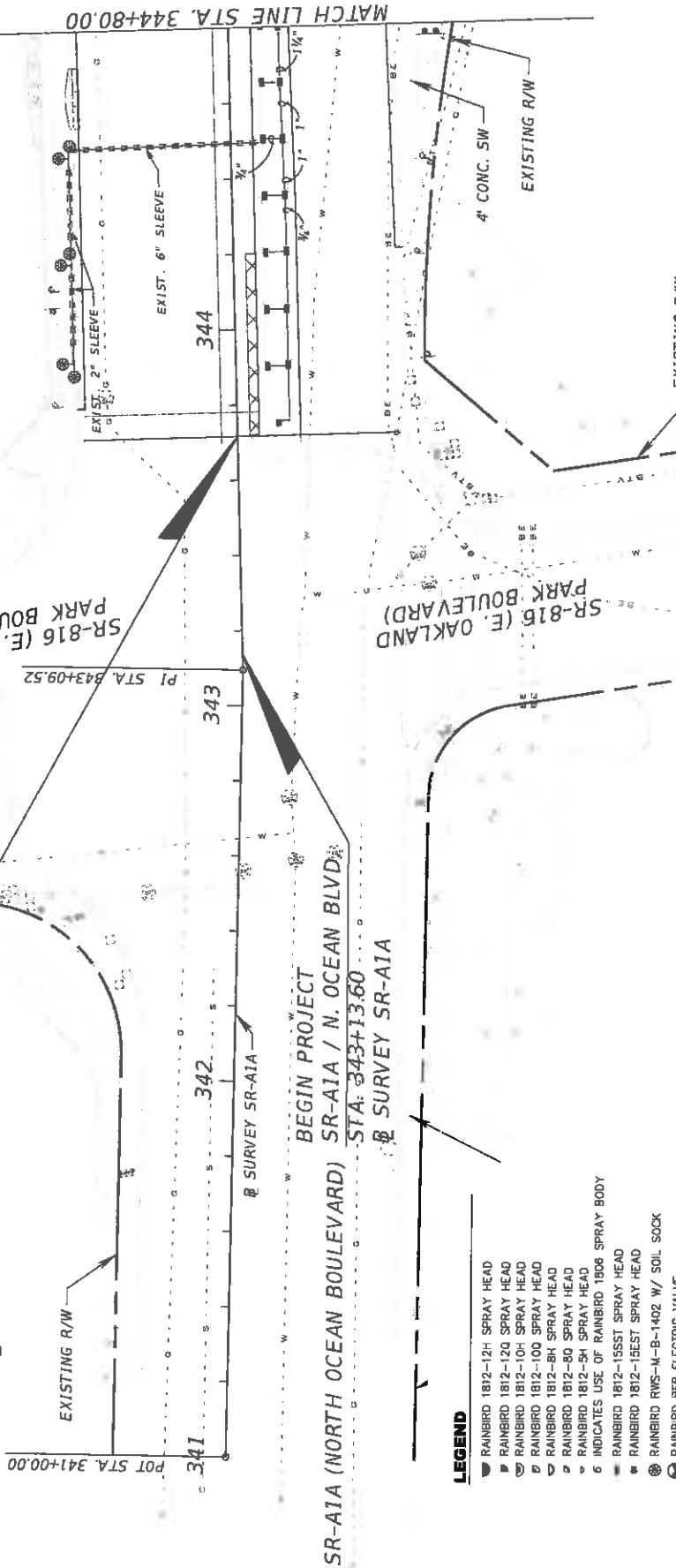
[illegible]

[illegible]

CAM 16-0358
Exhibit 1
Page 32 of 64



BEGIN IRRIGATION
 SR-A1A / N. OCEAN BLVD.
 STA. 343+72.00
 @ SURVEY SR-A1A



LEGEND

- RAINBIRD 1812-12H SPRAY HEAD
- ▴ RAINBIRD 1812-120 SPRAY HEAD
- ◊ RAINBIRD 1812-10H SPRAY HEAD
- ◊ RAINBIRD 1812-100 SPRAY HEAD
- ◊ RAINBIRD 1812-8H SPRAY HEAD
- ◊ RAINBIRD 1812-80 SPRAY HEAD
- ◊ RAINBIRD 1812-5H SPRAY HEAD
- 6 INDICATES USE OF RAINBIRD 1506 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-15EST SPRAY HEAD
- ⊗ RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
- ⊗ RAINBIRD PEB ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
- ⊗ 1/2" BACKFLOW PREVENTER

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 FARMERSBURGH, NY 11731 FBPE CERTIFICATE OF AUTHORIZATION No. 24		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID	
HARRY L. BELTON, R.L.A. 900		A1A BROWARD 431204-2-52-01	

2711/2018	3-21-01 PM	16-Transportation\312043501_SR-A1A Stand Alone Landscape 776.DWG\312043501
2711/2018	3-21-01 PM	16-Transportation\312043501_SR-A1A Stand Alone Landscape 776.DWG\312043501

SHEET NO.	LD-24
IRRIGATION PLAN	



OVERHANG

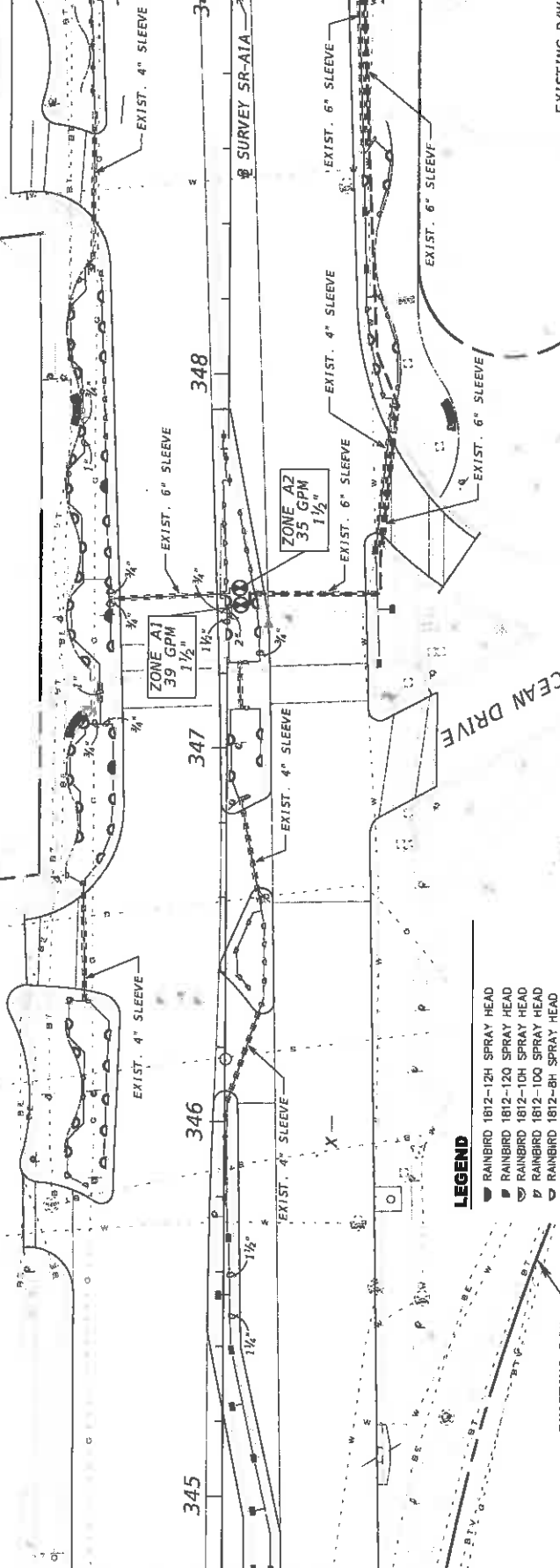
NE 32ND STREET

OVERHANG

EXISTING R/W

MATCH LINE STA. 344+80.00

MATCH LINE STA. 349+00.00



LEGEND

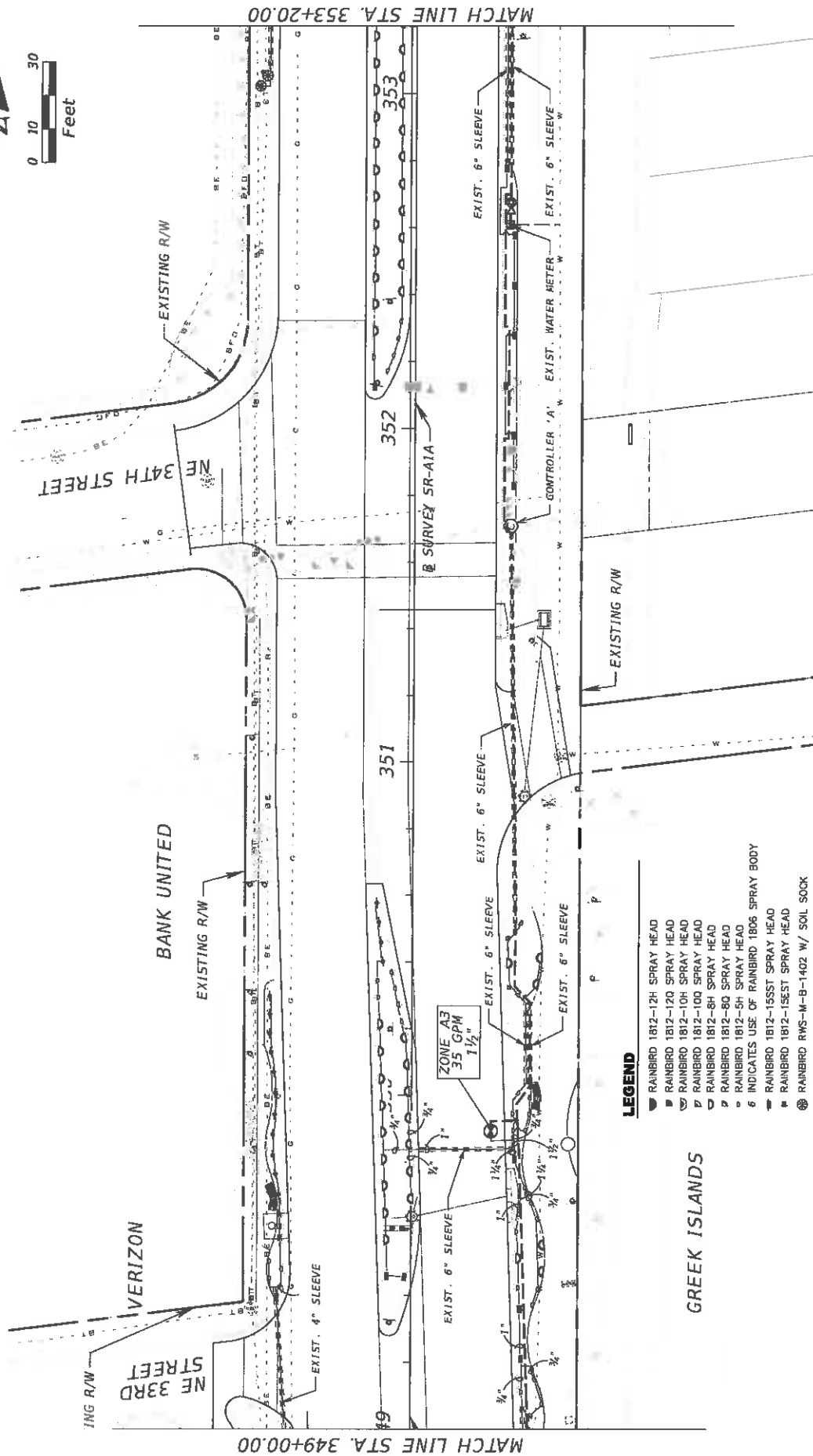
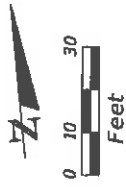
- RAINBIRD 1812-12H SPRAY HEAD
- RAINBIRD 1812-12Q SPRAY HEAD
- RAINBIRD 1812-10H SPRAY HEAD
- RAINBIRD 1812-10Q SPRAY HEAD
- RAINBIRD 1812-8H SPRAY HEAD
- RAINBIRD 1812-8Q SPRAY HEAD
- RAINBIRD 1812-5H SPRAY HEAD
- RAINBIRD 1812-5Q SPRAY HEAD
- INDICATES USE OF RAINBIRD 1806 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-15EST SPRAY HEAD
- RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
- RAINBIRD PEB ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
- 1 1/2" BACKFLOW PREVENTER

EXISTING R/W

GALT OCEAN DRIVE

EXISTING R/W

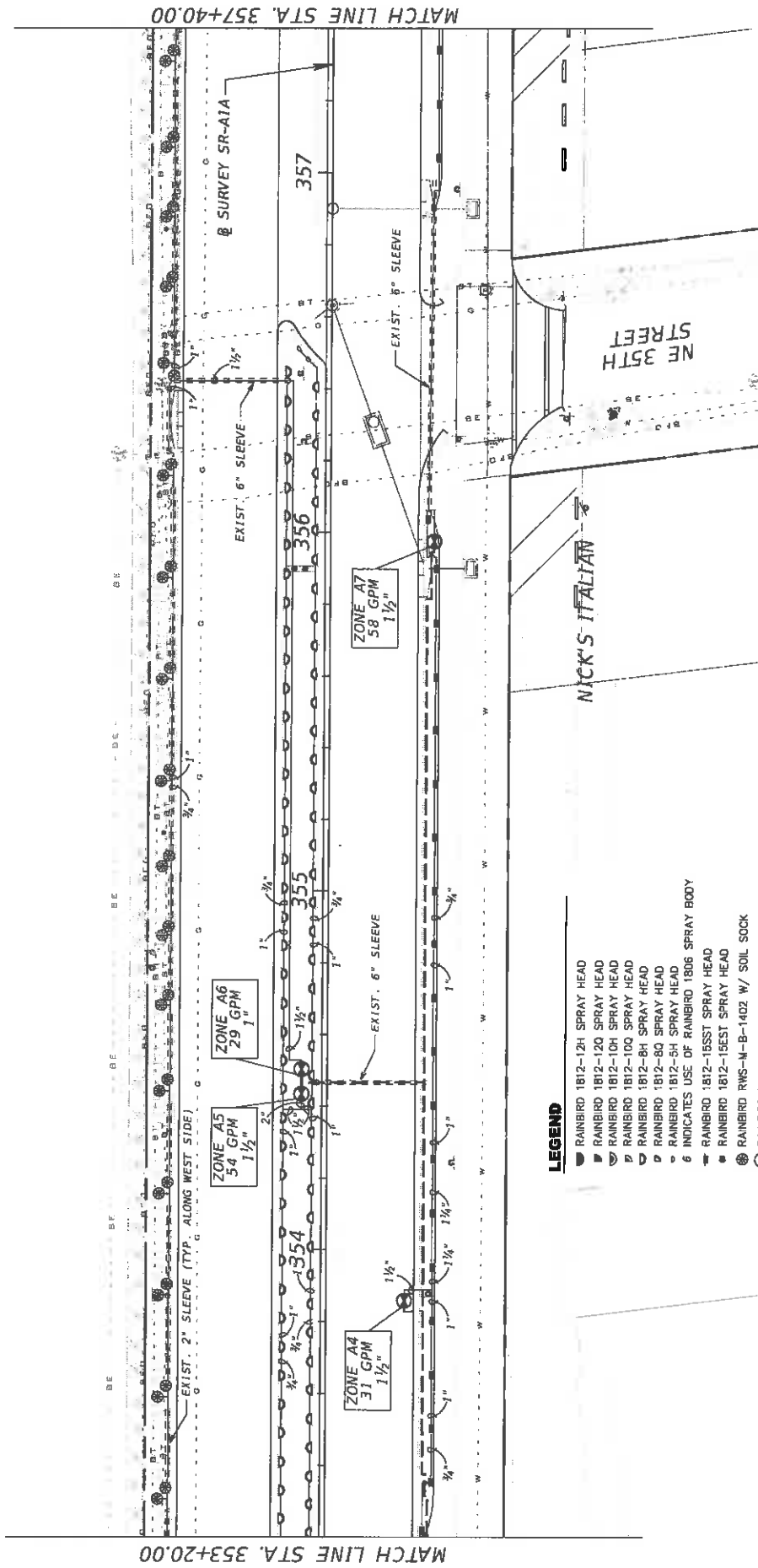
REVISES		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION
ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 FORT PIERCE, FLORIDA 34945 FPE CERTIFICATE OF AUTHORIZATION No. 24		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID	
HARRY L. BELTON, R.L.A. 900		BROWARD 431204-2-52-01	
27/1/2018 3:21:03 PM RY16580		IRRIIGATION PLAN	
		SHEET NO. LD-25	



LEGEND

- ▼ RAINBIRD 1812-12H SPRAY HEAD
- ▴ RAINBIRD 1812-12Q SPRAY HEAD
- ▽ RAINBIRD 1812-10H SPRAY HEAD
- ▽ RAINBIRD 1812-10Q SPRAY HEAD
- ◀ RAINBIRD 1812-8H SPRAY HEAD
- ▶ RAINBIRD 1812-8Q SPRAY HEAD
- ◇ RAINBIRD 1812-5H SPRAY HEAD
- 6 INDICATES USE OF RAINBIRD 1806 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-15SST SPRAY HEAD
- ⊗ RAINBIRD RWS-M-8-1402 W/ SOIL SOCK
- ⊕ RAINBIRD PEB ELECTRIC VALVE (SEE LABEL FOR SIZE)
- ⊙ 1 1/2" BACKFLOW PREVENTER

REVISIONS		STATE OF FLORIDA		SHEET NO.	
DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION	FINANCIAL PROJECT ID	LD-26	
		ROAD NO.	COUNTY		
		A1A	BROWARD		
			431204-2-52-01		
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		HARRY L. BELTON, R.L.A. 900		N:\Transportation\31204\501_36-A1A_Slow Move Landmark Project\31204\2501	



LEGEND

- RAINBIRD 1812-12H SPRAY HEAD
- RAINBIRD 1812-120 SPRAY HEAD
- RAINBIRD 1812-10H SPRAY HEAD
- RAINBIRD 1812-100 SPRAY HEAD
- RAINBIRD 1812-8H SPRAY HEAD
- RAINBIRD 1812-8Q SPRAY HEAD
- RAINBIRD 1812-5H SPRAY HEAD
- 6 INDICATES USE OF RAINBIRD 1806 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-15EST SPRAY HEAD
- RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
- ⊗ RAINBIRD PEB ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
- ⊗ 1 1/2" BACKFLOW PREVENTER

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID	
ROAD NO.	COUNTY	PROJECT NO.	PROJECT NAME
A1A	BROWARD	431204-2-52-01	

ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 FORT LAUDERDALE, FL 33309 FBE CERTIFICATE OF AUTHORIZATION No. 24		HARRY L. BELTON, R.L.A. 900	
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IRRIGATION PLAN		SHEET NO.
		LD-27



CORAL RIDGE TOWERS

EXISTING R/W

EXIST. 2" SLEEVE (TYP. ALONG WEST SIDE)

EXIST. 6" SLEEVE

MATCH LINE STA. 357+40.00

MATCH LINE STA. 361+60.00

NE 36TH STREET

361

360

359

Ø SURVEY SR-A1A

LEGEND

- RAINBIRD 1812-12H SPRAY HEAD
- RAINBIRD 1812-12C SPRAY HEAD
- RAINBIRD 1812-10H SPRAY HEAD
- RAINBIRD 1812-100 SPRAY HEAD
- RAINBIRD 1812-BH SPRAY HEAD
- RAINBIRD 1812-8C SPRAY HEAD
- RAINBIRD 1812-5H SPRAY HEAD
- 6 INDICATES USE OF RAINBIRD 1808 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-1SEST SPRAY HEAD
- RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
- RAINBIRD PEB ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
- 1 1/2" BACKFLOW PREVENTER

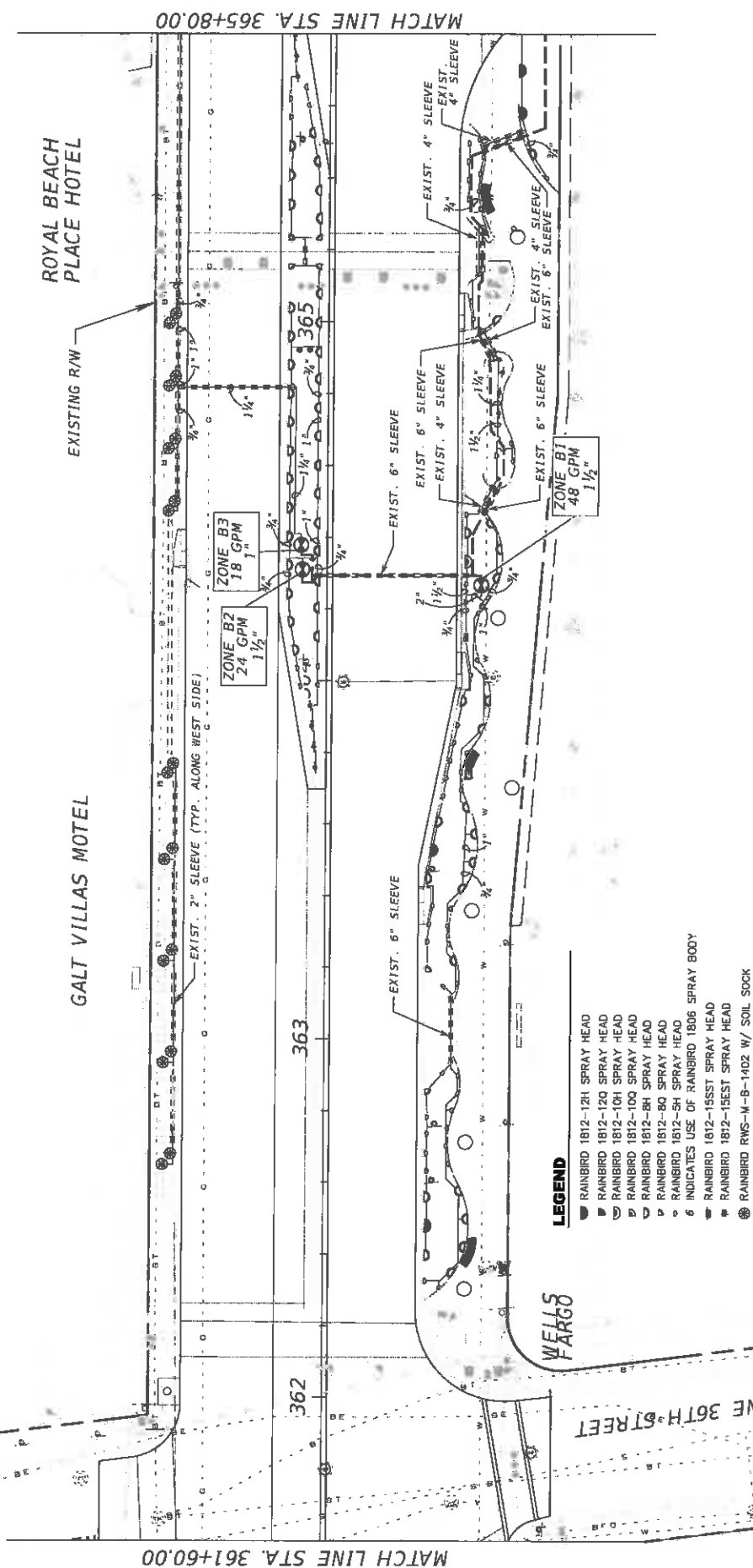
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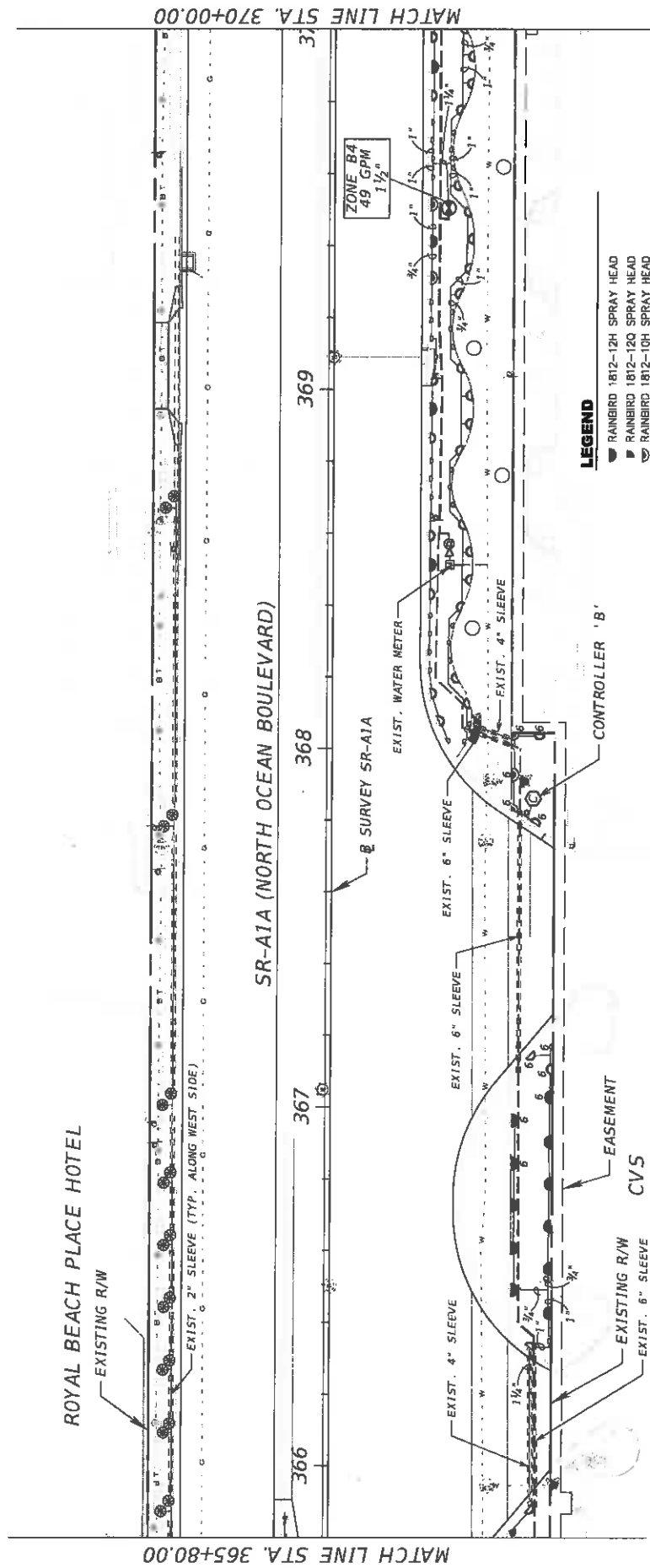
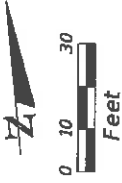
BB&T

EXISTING R/W

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION
ATKINS NORTH AMERICA, INC. 3330 WEST COMMERCIAL BLVD., SUITE 100 FORT LAUDERDALE, FL 33309 FBE CERTIFICATE OF AUTHORIZATION No. 24		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID	
HARRY L. BELTON, R.L.A. 900		A1A BROWARD 431204-2-52-01	
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H:\TRANSPORTATION\31204\5201_SR-A1A_South_Atlanta_Landmark_Project\A1A\2012\201		SHEET NO.	
		LD-28	

IRRIGATION PLAN

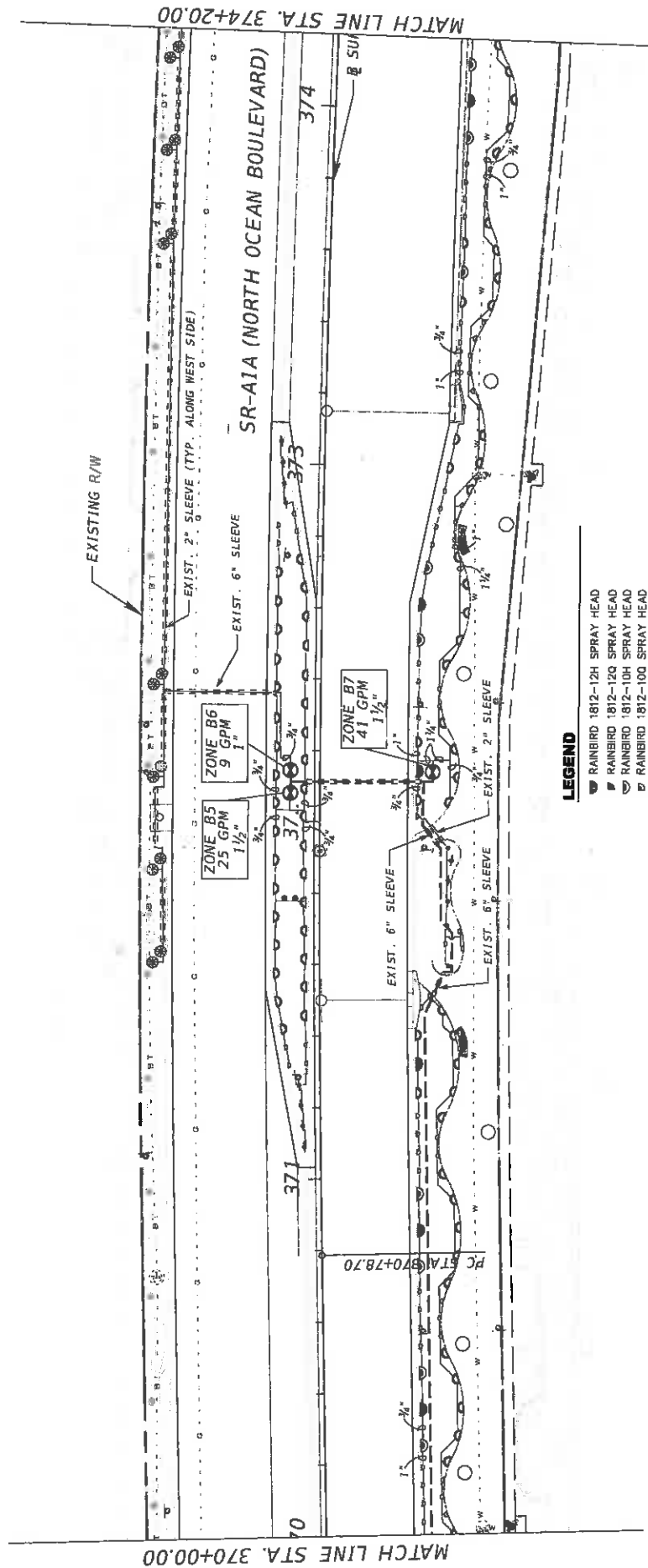
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- LEGEND**
- RAINBIRD 1812-12H SPRAY HEAD
 - RAINBIRD 1812-12Q SPRAY HEAD
 - RAINBIRD 1812-10H SPRAY HEAD
 - RAINBIRD 1812-10Q SPRAY HEAD
 - RAINBIRD 1812-8H SPRAY HEAD
 - RAINBIRD 1812-8Q SPRAY HEAD
 - RAINBIRD 1812-5H SPRAY HEAD
 - RAINBIRD 1812-5Q SPRAY HEAD
 - INDICATES USE OF RAINBIRD 1808 SPRAY BODY
 - RAINBIRD 1812-155ST SPRAY HEAD
 - RAINBIRD 1812-1502 W/ SOIL SOCK
 - RAINBIRD 1402 W/ ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
 - 1/2" BACKFLOW PREVENTER

WINN DIXIE

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION
ATKINS NORTH AMERICA, INC. 3330 WEST COMMERCIAL BLVD., SUITE 100 FORT WORTH, TEXAS 76102 FBI# CERTIFICATE OF AUTHORIZATION No. 24 HARRY L. BELTON, R.L.A. 900			
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID	
ROAD NO.		COUNTY	
A1A		BROWARD	
431204-2-52-01		431204-2-52-01	
SR-A1A (NORTH OCEAN BOULEVARD)		IRRIGATION PLAN	
SHEET NO.		LD-30	



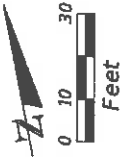
**SHEET
NO.**
LD-31

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	BROWARD	431204-2-52-01

ATKINS NORTH AMERICA, INC.
3230 WEST COMMERCIAL BLVD., SUITE 100
FORT LAUDERDALE, FL 33309
FBPE CERTIFICATE OF AUTHORIZATION No. 2
HARRY L. BELTON, R.L.A. 900

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
06/06/64	Ship 1			
06/06/64				

CAM 16-0358
Exhibit 1
Page 42 of 64



REMOVE POLE
(NO SIGN ATTACHED)

NE 40TH STREET

EXISTING R/W

MATCH LINE STA. 374+20.00

MATCH LINE STA. 378+40.00

SR-A1A

376

375

378

377

EXIST. 2" SLEEVE

EXIST. 6" SLEEVE

EXIST. 6" SLEEVE

EXIST. 6" SLEEVE

EXIST. 6" SLEEVE

EXIST. 6" SLEEVE

EXIST. 6" SLEEVE

EXIST. 6" SLEEVE

LEGEND

- RAINBIRD 1812-12H SPRAY HEAD
- RAINBIRD 1812-12Q SPRAY HEAD
- RAINBIRD 1812-10H SPRAY HEAD
- RAINBIRD 1812-10Q SPRAY HEAD
- RAINBIRD 1812-8H SPRAY HEAD
- RAINBIRD 1812-8Q SPRAY HEAD
- RAINBIRD 1812-5H SPRAY HEAD
- RAINBIRD 1812-5Q SPRAY HEAD
- INDICATES USE OF RAINBIRD 1806 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
- RAINBIRD PEB ELECTRIC VALVE
(SEE ZONE LABEL FOR SIZE)
- 1 1/2" BACKFLOW PREVENTER

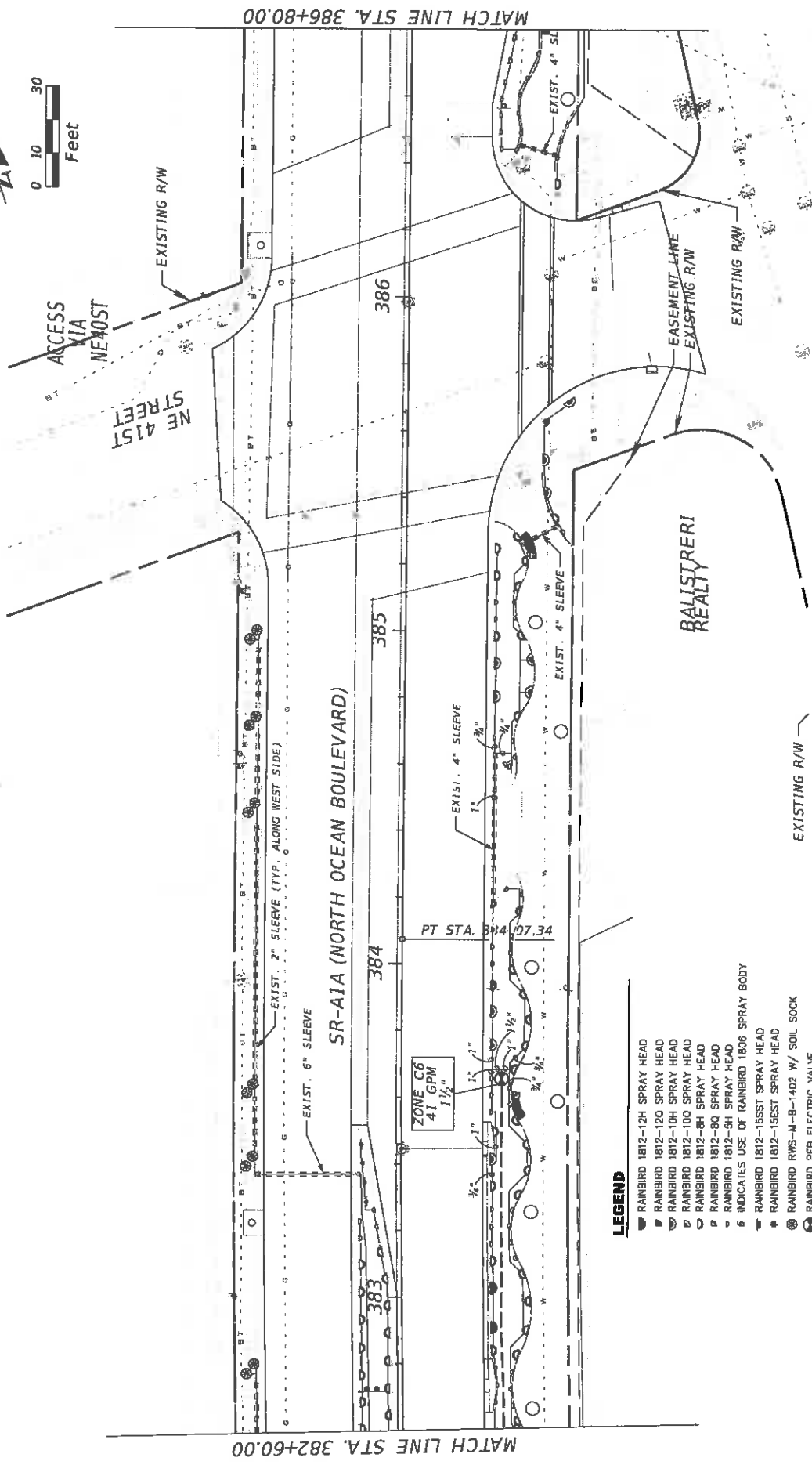
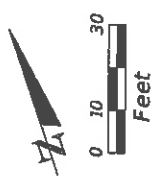
EXISTING R/W
EASEMENT

EXISTING R/W
EASEMENT

GALT OCEAN MARKETPLACE

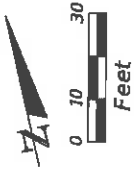
CAM 16-0358
Exhibit 1
Page 43 of 64

REVISIONS		DATE	DESCRIPTION
ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 DENVER, CO 80202 FBPE CERTIFICATE OF AUTHORIZATION No. 24 HARRY L. BELTON, R.L.A. 900			
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID	
ROAD NO.	COUNTY	431204-2-52-01	
A1A	BROWARD	4786240	
2/11/2016		3:31:14 PM	
I:\Projects\Information\3120230701_SR-A1A_Signed_Altir_Landscare Project\3120230701		LD-32	

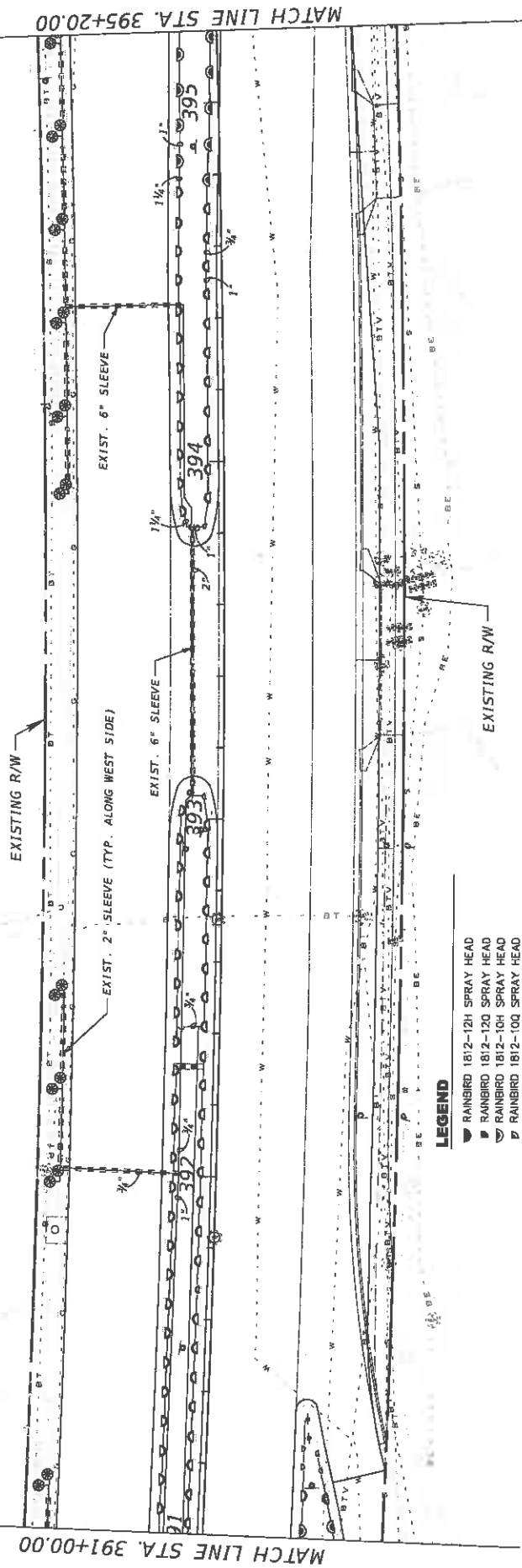


- LEGEND**
- RAINBIRD 1812-12H SPRAY HEAD
 - RAINBIRD 1812-120 SPRAY HEAD
 - RAINBIRD 1812-104 SPRAY HEAD
 - RAINBIRD 1812-100 SPRAY HEAD
 - RAINBIRD 1812-84 SPRAY HEAD
 - RAINBIRD 1812-80 SPRAY HEAD
 - RAINBIRD 1812-9H SPRAY HEAD
 - 6 INDICATES USE OF RAINBIRD 1806 SPRAY BODY
 - RAINBIRD 1812-15SST SPRAY HEAD
 - RAINBIRD 1812-15EST SPRAY HEAD
 - RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
 - RAINBIRD PEB ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
 - ⊗ 1 1/4" BACKFLOW PREVENTER

REVISIONS		STATE OF FLORIDA		SHEET NO.	
DATE	DESCRIPTION	ROAD NO.	FINANCIAL PROJECT ID	LD-34	
		A1A	431204-2-52-01	IRRIGATION PLAN	
ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 FORT WORTH, TEXAS 76102 FPE CERTIFICATE OF AUTHORIZATION No. 24		COUNTY	FINANCIAL PROJECT ID	3.31.17 PM	
HARRY L. BELTON, R.L.A. 500		BROWARD	431204-2-52-01	9/11/2016	



BEACH RESORT
HOTEL & SUITES



LEGEND

- ▼ RAINBIRD 1812-12H SPRAY HEAD
- ▽ RAINBIRD 1812-12Q SPRAY HEAD
- ▽ RAINBIRD 1812-10H SPRAY HEAD
- ▽ RAINBIRD 1812-10Q SPRAY HEAD
- ▽ RAINBIRD 1812-8H SPRAY HEAD
- ▽ RAINBIRD 1812-8Q SPRAY HEAD
- ▽ RAINBIRD 1812-5H SPRAY HEAD
- ▽ RAINBIRD 1812-5Q SPRAY HEAD
- 6 INDICATES USE OF RAINBIRD 1805 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-15EST SPRAY HEAD
- ⊗ RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
- ⊕ RAINBIRD PEB ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
- ⊙ 1 1/2" BACKFLOW PREVENTER

MATCH LINE STA. 391+00.00

MATCH LINE STA. 395+20.00

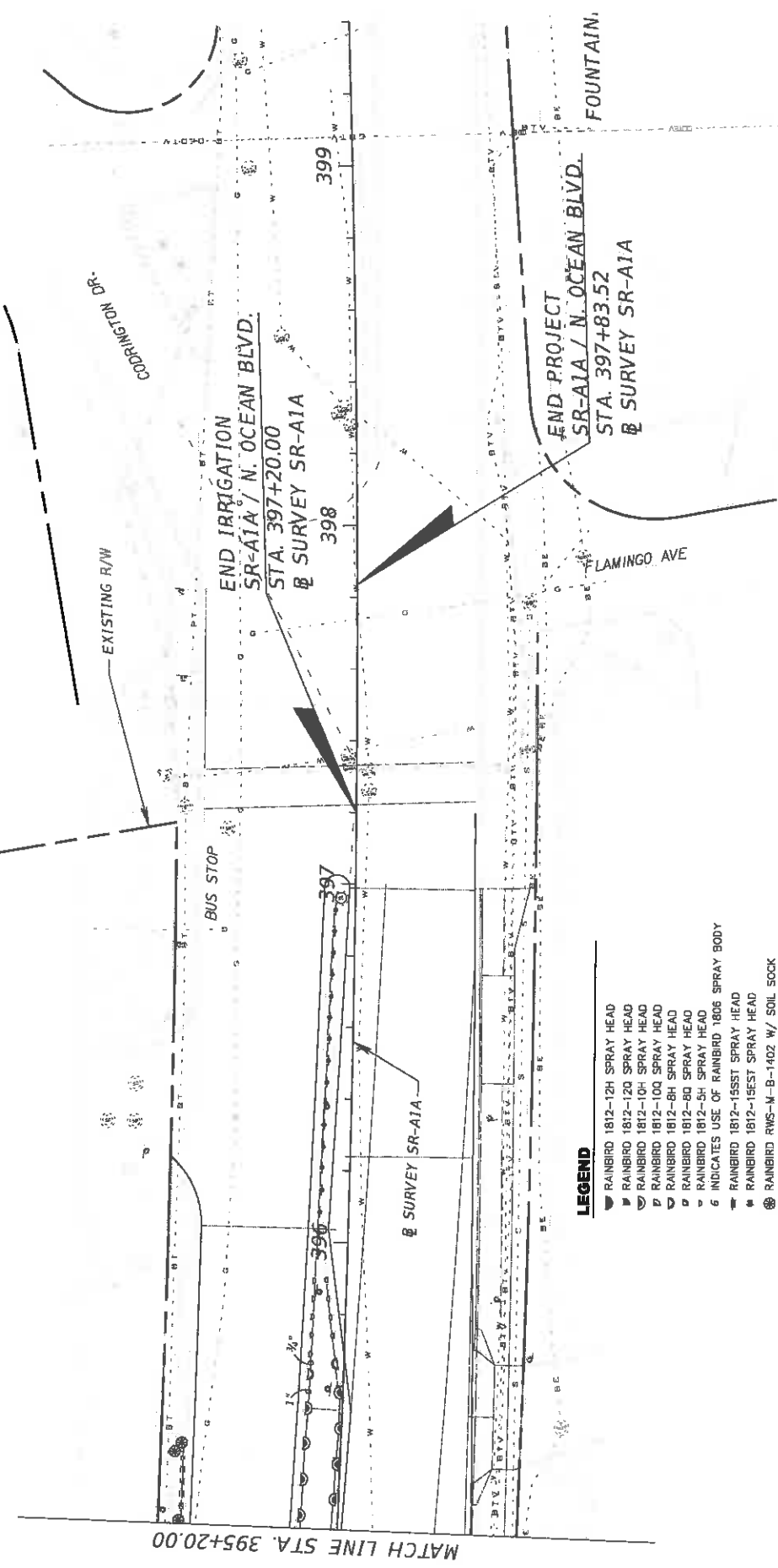
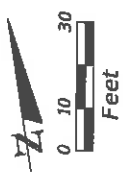
REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC. 3230 WEST COMMERCIAL BLVD., SUITE 100 DENVER, COLORADO 80202 FBPE CERTIFICATE OF AUTHORIZATION No. 24		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID	
HARRY L. BELTON, R.L.A. 900		A1A BROWARD 431204-2-52-01	

2/11/2018	3:21 PM	N:\Transportation\312023501 SR-A1A South Broward Landscape Project\312023501
2/11/2018	3:21 PM	N:\Transportation\312023501 SR-A1A South Broward Landscape Project\312023501

LD-36	SHEET NO.
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IRRIGATION PLAN



LEGEND

- ▼ RAINBIRD 1812-12H SPRAY HEAD
- ▼ RAINBIRD 1812-12Q SPRAY HEAD
- ▼ RAINBIRD 1812-10H SPRAY HEAD
- ▼ RAINBIRD 1812-10Q SPRAY HEAD
- ▼ RAINBIRD 1812-8H SPRAY HEAD
- ▼ RAINBIRD 1812-8Q SPRAY HEAD
- ▼ RAINBIRD 1812-5H SPRAY HEAD
- 6 INDICATES USE OF RAINBIRD 1806 SPRAY BODY
- RAINBIRD 1812-15SST SPRAY HEAD
- RAINBIRD 1812-15EST SPRAY HEAD
- RAINBIRD RWS-M-B-1402 W/ SOIL SOCK
- ⊗ RAINBIRD PREB ELECTRIC VALVE (SEE ZONE LABEL FOR SIZE)
- ⊗ 1 1/2" BACKFLOW PREVENTER

REVISIONS		STATE OF FLORIDA		SHEET NO.	
DATE	DESCRIPTION	ROAD NO.	FINANCIAL PROJECT ID	IRRIGATION PLAN	
		A1A	431204-2-52-01		
ATKINS NORTH AMERICA, INC. 3290 WEST COMMERCIAL BLVD., SUITE 100 FORT LAUDERDALE, FL 33309 FBE CERTIFICATE OF AUTHORIZATION No. 24		COUNTY	FINANCIAL PROJECT ID	LD-37	
HARRY L. BELTON, R.L.A. 900		BROWARD	431204-2-52-01		
		2/11/2018 3:21:22 PM		N:\Transportation\431204\2-52-01 SR-A1A Sewer Along Landscape Project\A112042301	

2.4.2 STRUCTURAL PRACTICES:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE EROSION AND SEDIMENT CONTROL PRACTICES TO BE USED FOR EXPOSED AREAS OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

- * SEDIMENT BARRIER
- * FLOATING TURBIDITY BARRIER.

PERMANENT:

- * SOD

2.4.3 STORM WATER MANAGEMENT:

THE SURFACE WATER MANAGEMENT SYSTEM CONSISTS OF STORM SEWER SYSTEMS, THE PROPOSED ROAD AND WADSWORTH. THERE ARE NO EXISTING TREATMENT FACILITIES, DRAINAGE SYSTEMS, BY DECREASING THE TOTAL NET IMPERVIOUS AREA, THE PROPOSED ROADWAY IMPROVEMENTS WILL ENHANCE THE OVERALL WATER QUALITY WITHIN THE PROJECT LIMITS.

2.C. OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIAL, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES, AT A MINIMUM, THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- * PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSE OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSE OF ALL SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIAL OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF SITE VEHICLE TRACKING AND DUST CONTROL:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF SITE VEHICLE TRACKING OF SEDIMENT AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- * COVERING LOADED HAUL TRUCKS WITH TARPULIN.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * TAKING MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, SEPTIC TANK REGULATIONS:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES.

2.C.5 TOXIC SUBSTANCES:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND DESCRIBE THE GENERATION, STORAGE, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D. STATE AND LOCAL PERMITS TO BE APPLIED FOR:

- * PERMIT EXCEPTION HAS BEEN APPROVED BY SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3.0 MAINTENANCE:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SEDIMENT BARRIER: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT ALL EROSION CONTROL FEATURES AT LEAST ONCE EVERY CALENDAR DAY AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5" OR GREATER. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY 30 DAYS. IN ADDITION THE FOLLOWING ITEMS WILL BE INSPECTED:

- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
- * THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.
- * IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, REPAIRS AND ADDITIONAL PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT THESE NON-STORMWATER DISCHARGES, SUCH AS, BUT NOT LIMITED TO, SURFURRY FROM MAST AND FOUNDATIONS AND DIVERSION CHANNEL IF REQUIRED FOR WORK ON CULVERTS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A DOWATERING SYSTEM THAT PROVIDES PROTECTION FOR EROSION AND SEDIMENT CONTROLS AND SURFACE WATERS. THE CONTRACTOR'S DOWATERING METHOD WILL MEET ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING NECESSARY THE INCLUDING THE USE OF PERMITTED OUTFALL STRUCTURES. IF NECESSARY, THE CONTRACTOR SHALL OBTAIN A DOWATERING PERMIT WITH THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGNATE AN AREA WITHIN THE PROJECT LIMITS THAT WILL BE USED TO STORE AND DOWATER MATERIALS. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL DEVICES THAT PREVENT CONTACT BETWEEN CONCRETE WASHOUT MATERIALS AND STORMWATER AND/OR SURFACE WATERS.

6.0 CONTRACTOR SUBMITTAL:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AN EROSION CONTROL PLAN THAT PROVIDES A DETAILED DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN SECTION 1.B. SEQUENCE OF SOIL DISTURBING ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED, MAINTAINED, AND REMOVED. THE CONTRACTOR SHALL BE KEPT AT THE PROJECT FIELD OFFICE IN ORDER FOR THE PROJECT TO BE CONSIDERED IN COMPLIANCE WITH THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FOLLOWING ITEMS ARE ON SITE:

- * COPY OF THE STORMWATER POLLUTION PREVENTION PLAN WITH THE ORIGINAL CERTIFICATION SIGNATURES.
- * COPY OF THE CONTRACTOR'S EROSION CONTROL PLAN.
- * HAZARDOUS SPILL CONTROL PLAN WITH GUIDELINES ON CONTACTING THE 24 HOUR EMERGENCY RESPONSE PROGRAM FOR HAZARDOUS MATERIALS SPILLS WITHIN THE PROJECT LIMITS.
- * COMPLETED INSPECTION FORMS.

THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE FOLLOWING ITEMS TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IN ORDER FOR THE NPDES PERMIT TO BE PROCESSED:

1. FDEP FORM 62-621-300 (4) (b) - NOTICE OF INTENT TO USE GENERIC PERMIT FOR NON-POINT SOURCE DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THIS NOTICE OF INTENT SHALL BE SIGNED BY THE CONTRACTOR.
2. THE PERMITTING FEE OF \$ 400.00 FOR PROJECTS THAT CLEAR AND GRUB MORE THAN FIVE ACRES, \$ 250.00 FOR PROJECTS THAT CLEAR AND GRUB BETWEEN 1 AND 5 ACRES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT THE NOI TO FDEP NO LATER THAN 45 DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROOF OF MAIL DATE TO THE PROJECT ADMINISTRATOR.

STORMWATER POLLUTION PREVENTION PLAN		SHEET NO. LD-38
STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 431204-2-52-01		
ATKINS NORTH AMERICA, INC. 3320 WEST FORT LAUDERDALE, FLORIDA 33309 FDEP CERTIFICATE OF AUTHORIZATION NO. 24 RAY L. ANDUJAR, P.E. #652989		
DATE 11/11/2014	DESCRIPTION 33129 PM	REVISIONS DATE

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS:

- A) THE FOLLOWING NARRATIVE DESCRIPTION AND REFERENCED DOCUMENTS.
B) THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN.
C) REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION

1.A NATURE OF CONSTRUCTION ACTIVITY:

THE AIA PROJECT IS LOCATED IN BROWARD COUNTY AND RUNS FROM RP 5.382 TO MP 6.418, WHICH IS APPROXIMATELY 1.036 MILES IN LENGTH. THE PURPOSE OF THIS PROJECT IS TO PROVIDE A GREENWAY BEAUTIFICATION ENHANCEMENT CORRIDOR WITH ENTIRE PAVEMENT AND SIDEWALK RECONSTRUCTION WITH GREENSPACE. THE PROJECT CONSISTS OF REDUCTION OF PAVEMENT WIDTH AND DRAINAGE IMPROVEMENTS.

1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AS DESCRIBED IN SECTION 2.0 AFTER CLEARING AND GRUBBING NECESSARY FOR THE INSTALLATIONS OF CONTROLS, BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

THE TRAFFIC CONTROL PLAN FOR THIS PROJECT CALLS FOR FIVE PHASES.

1. CLEARING AND GRUBBING OF AREAS OF CONSTRUCTION.
2. INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES PER BMP'S (BEST MANAGEMENT PRACTICES).
3. CONSTRUCTION OF DRAINAGE STRUCTURES AND PIPES.

1.C AREA ESTIMATES:

TOTAL SITE AREA: 12.71 AC.
TOTAL AREA TO BE DISTURBED: 12.71 AC.

1.D QUALITY OF EXISTING STORMWATER DISCHARGE

THE RUNOFF FROM THE PROJECT SITE DISCHARGES TO THE INTRACOSTAL WATERWAY VIA EXISTING STORM SEWER SYSTEMS. THERE ARE NO WATER QUALITY SYSTEMS WITHIN THE PROJECT LIMITS.

1.E OUTFALL INFORMATION (THERE ARE THREE (3) OUTFALLS WITHIN THE PROJECT LIMITS):

ESTIMATED DRAINAGE AREA 12.71AC

AVERAGE SLOPE = 0.4%

THE OUTFALL ARE NOT 303(D) LISTED WATERS FOR TOTAL SUSPENDED SOLIDS (TSS).

TURBIDITY AND SETTLEABLE SOLIDS.

OUTFALL LOCATIONS (TEMPORARY AND PERMANENT):

- OUTFALL 1: 60" PIPE ALONG NE 34TH ST (STA 351+40) LAT: 26°10'11.90" N LONG: 80°06'12.54" W

- OUTFALL 2: 60" PIPE ALONG NE 36TH ST (STA 361+80) LAT: 26°10'21.93" N LONG: 80°06'11.93" W

- OUTFALL 3: 60" PIPE ALONG NE 41ST ST (STA 385+66) LAT: 26°10'51.20" N LONG: 80°05'53.94" W

RECEIVING WATER BODY - INTRACOSTAL WATERWAY

1.F. RECEIVING WATERS

INTRACOSTAL WATERWAY

NO ADVERSE IMPACTS ARE ANTICIPATED DUE TO THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT, AS NET IMPERVIOUS AREA IS REDUCED.

THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAYS.

THERE ARE NO WETLAND IMPACTS ASSOCIATED WITH THIS PROJECT.

DEWATERING NOTES:

DEWATERING PERMIT IS EXEMPTED UNDER THE PROVISIONS OF 40C-2.051, 40C-20 OR 40C-22 F.A.C. IN THE FOLLOWING CIRCUMSTANCES:

1. THE WITHDRAWAL IS 300,000 GALLONS PER DAY OR LESS.

2. THE WITHDRAWAL DOES NOT EXCEED 30 DAYS IN DURATION.

3. THE WATER WITHDRAWN IS NOT DISCHARGED DIRECTLY INTO AN OUTSTANDING FLORIDA WATER (FOW), CLASS I OR CLASS II WATER BODY, A DIRECT DISCHARGE MEANS WHICH ENTERS FOW, CLASS I OR CLASS II WATERS WITHOUT AND ADEQUATE OPPORTUNITY FOR PRIOR MIXING AND DILUTION TO PREVENT SIGNIFICANT DEGRADATION.

4. THE FOLLOWING TURBIDITY CONTROL MEASURES ARE IMPLEMENTED, AS APPROPRIATE, FOR ANY DISCHARGES OFF-SITE:

(A) IF THE DISCHARGE IS TO BE TO A DRAINAGE SYSTEM, THE WATER SHALL BE PIPED DIRECTLY INTO THE DRAINAGE STRUCTURE, IF POSSIBLE; BUT IF THE DISCHARGE IS THROUGH A SHALE OR OVERLAND TO A STRUCTURE OR WATER BODY, THE PATH OF DISCHARGE SHALL BE LINED WITH VISQUEEN PLASTIC, SOD OR HAY BALES APPROPRIATELY, TO PREVENT A TURBID DISCHARGE TO THE STRUCTURE OR WATER BODY.

(B) IF WATER WILL DISCHARGE TO AN OPEN WATER BODY, APPROPRIATE FABRIC SILT SCREEN OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE - A DETENTION AREA SHALL BE ESTABLISHED TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO ENTERING THE WATER BODY.

(C) IF THE ABOVE TURBIDITY CONTROL MEASURES ARE INADEQUATE TO RETAIN SEDIMENT ON-SITE AND PREVENT TURBID DISCHARGE, ADDITIONAL OR MODIFIED EROSION AND SEDIMENT CONTROL MEASURES MUST BE SELECTED, IMPLEMENTED AND OPERATED AS NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS AS SPECIFIED IN CHAPTER 62-302, F.A.C.

2.0 CONTROLS:

2.A EROSION AND SEDIMENT CONTROLS

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION AND STRUCTURAL PRACTICES PROPOSED TO CONTROL EROSION. FOR PHASE 1 CONSTRUCTION, INSTALL PERIMETER CONTROLS SUCH AS SEDIMENT BARRIER BEFORE DISTURBING SOIL UPDAND OF THE CONTROLS.

PROTECT EXISTING INLET USING SEDIMENT CONTROL DEVICES.

2.A.1 STABILIZATION PRACTICES:

IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, THE STABILIZATION PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

TEMPORARY:

* SEDIMENT BARRIER.

PERMANENT:

* SOD.

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.
3320 W. UNIVERSITY BLVD., SUITE 100
FORT LAUDERDALE, FLORIDA 33309
FBIPE CERTIFICATE OF AUTHORIZATION NO. 24
(959) 739-7233
RAUL L. ANDUJAR, P.E. #62899

STATES OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
AIA BROWARD 431204-2-52-01

STORMWATER POLLUTION
PREVENTION PLAN
SHEET NO.
LD-39

7/11/2018 3:21:33 PM

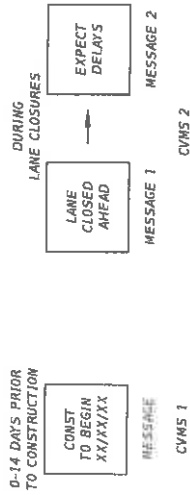
K1746240

\\VT\project\atn\331204\5201_SRA\AIA Storm Water Pollution Prevention Plan.dwg

THE PLAN

- CHANDLER, J. W. 1963. *PLANTAS DE LA SIERRA DE GUAYAMA, P.R.* 100 pp. 6.500. INC. S. S. A. G. C. S.

CVMS TO BE PLACED ON SR-A1A:

0-14 DAYS PRIOR
TO CONSTRUCTION

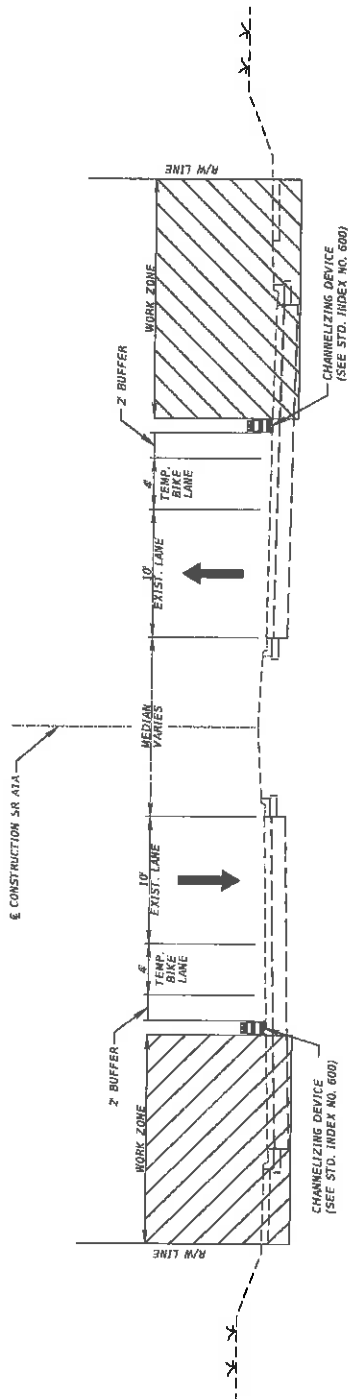
ADVANCE CONSTRUCTION NOTICE:

THE CONTRACTOR SHALL FURNISH AND MAINTAIN CHANGEABLE (VARIABLE) MESSAGE SIGNS (CVMS) AT THE BEGINNING OF THIS PROJECT FROM BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTIONS. MESSAGES FOR THE CVMS SHALL BE AS INDICATED ON THIS PLAN OR AS DIRECTED BY THE ENGINEER. THE CVMS SHALL BE IN PLACE TWO (2) WEEKS BEFORE START OF ANY WORK ITEMS AFFECTING THE EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC. SR-41A.

[illegible]

PHASE I:

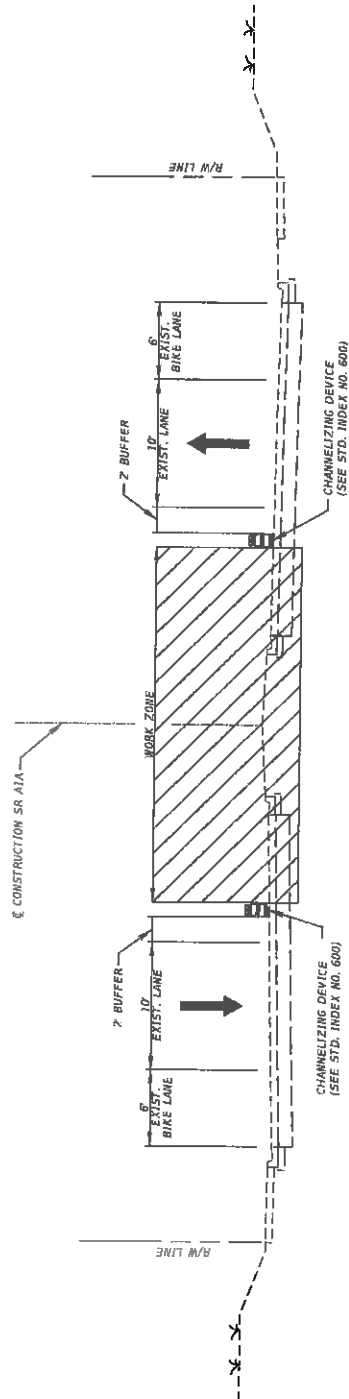
1. MAINTAIN TRAFFIC PATTERNS IN ACCORDANCE WITH FOOT STANDARD INDEX NOS. 600, 611, 612, 616, AND 660.
2. INSTALL LANDSCAPING AND IRRIGATION ALONG THE OUTSIDE AS SHOWN IN THE LANDSCAPE AND IRRIGATION PLANS.



NOTE: WORK MAY ONLY OCCUR ON ONE SIDE OF THE ROAD AT A TIME

TYPICAL SECTION - PHASE I
SR A1A
STA. 343+13.60 TO STA. 397+83.52

- PHASE II:
1. MAINTAIN TRAFFIC PATTERNS IN ACCORDANCE WITH FDOT STANDARD INDEX NOS. 600, 613, 616, AND 660.
 2. INSTALL LANDSCAPING AND IRRIGATION WITHIN THE MEDIAN AS SHOWN IN THE LANDSCAPE AND IRRIGATION PLANS.



TYPICAL SECTION - PHASE II
SR A1A
STA. 343+13.60 TO STA. 397+83.52

16-0358 Exhibit 1 52 of 64	REVISIONS		ATKINS NORTH AMERICA, INC. 3220 WEST 10TH AVENUE, SUITE 100 FORT LAUDERDALE, FLORIDA 33309 (954) 733-7233 FBPE CERTIFICATE OF AUTHORIZATION NO. 24 RAUL L. ANDUJAR, P.E. #62988	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		TEMPORARY TRAFFIC CONTROL PLAN	SHEET NO.	
	DATE	DESCRIPTION		ROAD NO.	COUNTY			FINANCIAL PROJECT ID
				A1A	BROWARD			431204-2-52-01
							LD-41	

TRAVERSING THRU SECTIONS 7 & 18, TOWNSHIP 49 SOUTH, RANGE 43 EAST

BEGIN SURVEY
STA. 341+00.00
N 667402.546
E 951190.159
NOT SET

PI STA. 343+09.52
N 66° 6' 09.854
E 95° 12' 20.522
NOT SET

NOT TO SCALE

NE 34TH ST

350

Q OF SURVEY SRAIA (NORTH OCEAN BLVD)

N 05° 47' 35" E

355

NE 367.H ST

E OF SURVEY STRAIA (NORTH OCEAN BLVD)

DATA SOURCES:

SPECIFIC PURPOSE SURVEY (PROJECT NETWORK CONTROL STATE ROAD A1A,
CONDUCTED UNDER FPID 423000-1-52-01, BY CARDINO TBE, DATED 13 APRIL
2009, AS PROVIDED BY FDOT

SPECIFIC PURPOSE SURVEY (PROJECT NETWORK CONTROL STATE ROAD A/A
CONDUCTED UNDER FPID 416B2-1-52-01, BY ERDMAN ANTHONY OF FLORIDA, INC.,
DATED 9 NOVEMBER 2006, AS PROVIDED BY FDOT

SURVEY BASELINE GEOMETRY IS PREDICATED SOLEY ON THE DATA SOURCES ABOVE.

BASELINE OF SURVEY WAS NOT SET IN THE FIELD.

HORIZONTAL AND VERTICAL PRIMARY CONTROL VALUES ARE AS PROVIDED BY FOOT DISTRICT N LOCATION SURVEY DEPARTMENT.

HORIZONTAL DATUM: NORTH AMERICAN DATUM (NAD) OF 1983 (2007)

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 1988
A BEARING OF N 09° 31' 21" E HAS BEEN ESTABLISHED BETWEEN MONUMENTS:

77, A FOUND FOOT BRASS DISK IN CONCRETE STAMPED "AIA-B6-06-C07"
BLC5, A FOUND FOOT BRASS DISK IN CONCRETE STAMPED "AIA-B6-08-C-5"

SURVEY DATABASE: JOBAIA.GPK
PROJECT UNITS: U.S. SURVEY FEET

990 BOOK REFERENCES: 4329652, 4729653

REVISIONS
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 53

DATE	DESCRIPTION	DATE	DESCRIPTION
10-1-01	10-1-01	10-1-01	10-1-01

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OFFICE OF AUTHORIZATION LE 1055

STATE OF FLORIDA

MENT OF TRANSPORTATION

COUNTY	FINANCIAL PROJE
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ROWARD
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PROJECT SURVEY CONTROL

CTL-1

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53

SPECIFIC PURPOSE SURVEY

TRAVERSING THRU SECTION 7 & 8, TOWNSHIP 49 SOUTH, RANGE 43 EAST



NOT TO SCALE

NE 40TH ST

PC STA. 370+78.70
N 67°36'48.92"
E 95°50'02.88"
NOT SET

375

380

370

CURVE 1
PI STA. = 377+46.01
Δ = 13°17'11" (RT.)
T = 67'00.00"
L = 1'328.64"
R = 5'729.58"
PC STA. = 370+78.70
PT STA. = 384+07.74

⊙ BLC3
⊙ BLC4

BM3

NE 41TH ST

PC STA. 387+36.50
N 67°50'53.00"
E 95°03'40.80"
NOT SET

385

N 19°04'46" E

390

395

CURVE 2
PI STA. = 394+41.17 (LT.)
Δ = 13°17'11"
T = 67'00.00"
L = 1'328.64"
R = 5'729.58"
PC STA. = 387+36.50
PT STA. = 401+38.81

⊙ BLC4

NOT TO SCALE

PT STA. 384+07.34
N 67°50'53.00"
E 95°03'40.80"
NOT SET

⊙ OF SURVEY SRRA (NORTH OCEAN BLVD)

SEE SHEET CTL-1 FOR LEGEND AND NOTES

REVISIONS		DESCRIPTION		DATE	
DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
SAMUEL T. HALL, PSC SURVEYOR LICENSE NUMBER 8644 WINTHROP GROUP, INC. 2035 VISTA PARKWAY, SUITE 100 WEST PALM BEACH, FL 33411 CERTIFICATE OF AUTHORIZATION LB 7055					
STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID	
ROAD NO.		COUNTY		FINANCIAL PROJECT ID	
ALA		BROWARD		437204-2-52-01	
PROJECT SURVEY CONTROL		SHEET NO.		CTL-2	

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TRAVERSING THRU SECTION 7 & 18, TOWNSHIP 49 SOUTH, RANGE 43 EAST

CURVE 2
 PI STA.
 A = 394+41.17
 B = 14°01'23" (LT.)
 C = 01°00'00"
 D = 104.67
 E = 100.00
 F = 100.00
 G = 100.00
 H = 100.00
 I = 100.00

END SURVEY
 PI STA. 40+36.81
 F 673338.426
 E 95865.557
 NOT SET

PALM AVE
 FLAMINGO AVE
 E OF SURVEY STRA (NORTH OCEAN BLVD)
 395
 400
 405
 BLC4
 BLC5

CURVE2	
P1 STA.	= 394+41.17
D A	= 14'-01".23' (LT.)
D D	= 01'-00".00'
T	= 704'.67'
L	= 1,402'.31'
R	= 5,729'.58'
PC STA.	= 387+36.50
PT STA.	= 401+38.81

END SURVEY
PT STA. 401+38.81
N 673338.426
E 952185.557
NOT SET

[illegible]

CAM 16-0358
Exhibit 1
Page 55 of 64

DATE		6-0358	
DESCRIPTION		Exhibit 1	
REVISIONS		55 of 64	
DATE			
DESCRIPTION		SAMUEL T. HALL, PSJ SURVEYOR LICENSE NUMBER 6644 WATKINS GROUP INC. 2035 VISTA ARWAY, SUITE 100 WEST PALM BEACH, FL 33411 CERTIFICATE OF AUTHORIZATION LB 7055	
		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 431204-2-52-01	
		PROJECT SURVEY CONTROL SHEET NO. CTL-3	

SECTION No.(s): 860500
S.R. No.(s): A1A
FM No: 431204-2-52-01
COUNTY: BROWARD COUNTY

EXHIBIT C
LANDSCAPE IMPROVEMENT MAINTENANCE PLAN

MAINTENANCE PLAN

Landscape Improvements

Project State Road No(s): State Road A1A
Project Limits: From State Road 816 (Oakland Park Boulevard) (M.P. 5.393) to Flamingo Avenue (M.P. 6.399)
FM No(s): 431204-2-52-01
Maintaining Agency: City of Fort Lauderdale
RLA of Record: Harry L. Belton, R.L.A.
Date: February 15, 2016

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.

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 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.

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.

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.

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.

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

ADDITIONAL PRUNING AND TRIMMING

Specific species of shrubs and groundcovers are not to be sheared and shall be allowed to grow to their natural height and form. These species include: *Crinum asiaticum*, *Philodendron* 'Rojo Congo', *Philodendron* 'Xanadu' *Rhapis excelsa*, *Strelitzia reginae*, *Zamia furfuracea*, *Liriope muscari*, *Nephrolepis exaltata*, *Neoregelia* 'Fireball' and *Pilea microphylla*.

All other shrubs and groundcovers may be sheared to maintain size, as noted in paragraph 'Pruning', and as directed in the table below:

Maintenance Pruning Requirements	
BOTANICAL NAME	MAINTAINED HEIGHT
<i>Concarpus erectus</i> 'Sericeus'	48"
<i>Chrysobalanus icaco</i> 'Red Tip'	48"
<i>Codiaeum variegatum</i> 'Mammey'	36"
<i>Ixora</i> 'Nora Grant'	36"
<i>Justicia brandegeana</i>	36"
<i>Ficus microcarpa</i> 'Green Island'	24"
<i>Juniperus conferta</i> 'Blue Pacific'	12"
<i>Pittosporum tobira</i> 'Variegata'	24"

BONDED AGGREGATE

All Bonded Aggregate shall be maintained to meet the requirements and specifications of the Landscape Plans. All hazards and/or imperfections, for example; separations, chips, cracks, breaks, missing pieces, uplifts, depressions, and splits, shall be removed and/or repaired immediately. All construction activities shall follow all applicable FDOT standards and requirements.

BENCHES

All benches shall be maintained upright and functional for their intended purpose. Physical and visual characteristics and finishes all benches shall be maintained. All benches shall be kept anchored as per manufacturer's specifications. Replacement benches shall be identical to the specifications in the Landscape Plans. Replacement parts shall be acquired from, and installed according to, the original bench manufacture.

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

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/

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

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

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

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: 431204-2-52-01
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.

\$1,279,027.64

Preliminary Cost Estimate
February 5, 2016

SR A1A - 431204-2-52-01

		QTY		UNIT PRICE	SUBTOTAL	TOTAL
0999-2	LUMP SUM					
Litter Removal	(4 cycles)	9.96	AC	\$36.20		\$360.69
Mowing	(4 cycles)	0.14	AC	\$45.63		\$6.60
Plants, Large (Trees)		1	LS			\$485,922.00
TYPE	SIZE					
Bulnesia arborea	12' ht. x 6' spr.	18	EA	\$360.00	\$6,480.00	
Bursera sinaruba	16' ht. x 7' spr.	79	EA	\$385.00	\$30,415.00	
Conocarpus erectus 'sericeus'	12' ht. x 6' spr.	21	EA	\$300.00	\$6,300.00	
Caesalpinia ferrea	12' ht. x 6' spr.	6	EA	\$700.00	\$4,200.00	
Cocos nucifera 'Maypan'	12'-18' CT	69	EA	\$1,680.00	\$115,920.00	
Cordia sebestiana	12' ht. x 6' spr.	19	EA	\$250.00	\$4,750.00	
Phoenix dactylifera 'Medjool'	16' CT	40	EA	\$4,800.00	\$192,000.00	
Quercus virginiana	16' ht. x 7' spr.	57	EA	\$800.00	\$45,600.00	
Sabal palmetto	12'-24' CT	79	EA	\$225.00	\$17,775.00	
Tabebuia hetrophylla	12' ht. x 4' spr.	6	EA	\$200.00	\$1,200.00	
Thrinax radiata	6' OA	28	EA	\$300.00	\$8,400.00	
Veitchia montgomeryana	6'-12' GW	93	EA	\$450.00	\$41,850.00	
Plants, Large (Shrubs)						
Crinum asiaticum	30" ht. x 30" spr.	47	EA	\$38.00	\$1,892.00	
Philodendron 'Rojo Congo'	30" ht. x 30" spr.	22	EA	\$40.00	\$880.00	
Philodendron 'xanadu'	30" ht. x 30" spr.	23	EA	\$30.00	\$690.00	
Rhapis excelsa	24" ht. x 16" spr.	32	EA	\$85.00	\$2,720.00	
Strelitzia reginae	30" ht. x 30" spr.	70	EA	\$40.00	\$2,800.00	
Zamia furfuracea	30" ht. x 30" spr.	50	EA	\$45.00	\$2,250.00	
Plants, Small (Shrubs)						\$118,712.00
Codiaeum variegatum 'mammey'	16" ht. x 16" spr.	178	EA	\$8.00	\$1,424.00	
Conocarpus erectus 'sericeus'	18" ht. x 18" spr.	267	EA	\$7.00	\$1,869.00	
Chrysobalanus icaco	18" ht. x 16" spr.	390	EA	\$7.50	\$2,925.00	
Ficus microcarpa 'Green Island'	16" ht. x 16" spr.	2397	EA	\$9.00	\$21,573.00	
Ixora 'Nora Grant'	18" ht. x 16" spr.	158	EA	\$9.00	\$1,422.00	
Justicia brandegeana	16" ht. x 16" spr.	100	EA	\$9.00	\$900.00	
Pittosporum tobira 'variegata'	15" ht. x 15" spr.	1110	EA	\$8.00	\$8,880.00	
Plants, Small (Groundcovers)						
Juniper conferta 'Blue Pacific'	8" ht. x 12" spr.	2185	EA	\$8.00	\$17,480.00	
Liriope muscari	6" ht. x 6" spr.	3150	EA	\$3.50	\$11,025.00	
Nephrolepis e. 'Kimberly Queen'	15" ht. x 15" spr.	2432	EA	\$7.00	\$17,024.00	
Neoregelia 'Fireball'	6" ht. x 6" spr.	2600	EA	\$10.00	\$26,000.00	
Pilea microphylla	6" ht. x 6" spr.	2340	EA	\$3.50	\$8,190.00	
Estimated Establishment Period Cost (2 years)					\$145,112.16	\$145,112.16
Root Barrier	12" deep	2507	LF	\$4.50	\$11,281.50	\$11,281.50
Irrigation		1	LS	\$110,284.28		\$110,284.28
Street Furnishings						\$230,346.00
bonded aggregate		3613	SF	\$42.00	\$151,746.00	
benches		20	EA	\$3,930.00	\$78,600.00	
SUBTOTAL					\$1,102,026.22	
Mobilization (8%)		1	LS			\$88,162.02
Work Zone Sign		4620	ED	\$0.26	\$1,201.20	\$1,201.20
Channelizing Device, Types I, II, DI, VP, DRUM or LCD		10200	ED	\$0.15	\$1,530.00	\$1,530.00
Channelizing Device, Types III, 6'		1740	ED	\$0.30	\$522.00	\$522.00
Channelizing Device, Pedestrian LCD		2160	LF	\$12.98	\$28,036.80	\$28,036.80
Arrow Board/ Advance Warning Arrow Panel		840	ED	\$5.30	\$4,452.00	\$4,452.00
Portable Changeable Message Sign, Temporary		240	ED	\$12.91	\$3,098.40	\$3,098.40
Painted Pavement Marking, Standard, White, Solid, 6"			GM	\$766.59	\$0.00	\$0.00
TOTAL					\$1,229,027.64	
0999-25	Initial Contingency					\$50,000.00
GRAND TOTAL					\$1,279,027.64	

*The estimated costs indicated above are intended as Atkins' opinion of a reasonable costs to complete the scope of this project at the time of estimate. It is possible that bid unit prices for this project could be much higher or lower depending on the contractor's valuation of the item within the context of the total project.