

Meeting Date: April 28, 2015

Agenda Item 10

REQUESTED COMMISSION ACTION:

Consent Ordinance Resolution Consideration Workshop

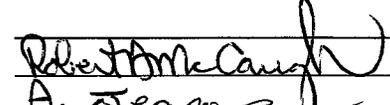
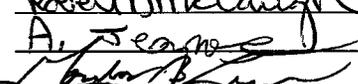
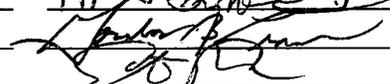
SHORT TITLE OR MOTION: A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A DISTRICT FOUR (4) AMENDMENT NUMBER EIGHT (8) TO LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT BETWEEN THE CITY OF POMPANO BEACH AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FOR ADDITIONAL LANDSCAPE IMPROVEMENTS ON STATE ROAD 814 (ATLANTIC BOULEVARD) FROM 123 FEET EAST OF SE 4TH TERRACE TO SE 6TH AVENUE); PROVIDING AN EFFECTIVE DATE. (NO COST)

SUMMARY OF PURPOSE AND WHY:

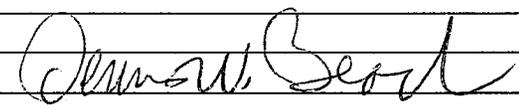
This amendment number eight (8) to the City's inclusive maintenance memorandum agreement with FDOT commits the city to maintaining the landscape enhancements and modifications proposed in the new development "KOI" currently under construction on south side of Atlantic Blvd at NE 5th Ave. These landscaping enhancements will be maintained to FDOT standards ensuring vegetation will be aesthetically pleasing and safely maintained such that motorists' visibility is not obstructed and vertical clearance is maintained for pedestrian, bicyclist and truck traffic.

QUESTIONS TO BE ANSWERED BY ORIGINATING DEPARTMENT:

- (1) Origin of request for this action: FDOT District Four (4)
- (2) Primary staff contact: Robert A. McCaughan, Public Works Director Ext 4097
- (3) Expiration of contract, if applicable: N/A
- (4) Fiscal impact and source of funding: N/A

DEPARTMENTAL COORDINATION	DATE	DEPARTMENTAL RECOMMENDATION	DEPARTMENTAL HEAD SIGNATURE
Public Works	<u>4/15/15</u>	APPROVE	
Finance	<u>4/17/15</u>	APPROVE	
City Attorney	<u>4/17/15</u>	APPROVE	
Budget	<u>4-20-15</u>	APPROVE	

Advisory Board
 Development Services Director
 City Manager 



ACTION TAKEN BY COMMISSION:

<u>Ordinance</u>	<u>Resolution</u>	<u>Consideration</u>	<u>Workshop</u>
1st Reading	1st Reading	Results:	Results:
_____	_____	_____	_____
2nd Reading	_____	_____	_____
_____	_____	_____	_____



City Attorney's Communication #2015-820

April 6, 2015

TO: Robert A. McCaughan, Public Works Director

FROM: Jill R. Mesojedec, FRP, Paralegal

VIA: Gordon B. Linn, City Attorney *GBL*

RE: Resolution – Amendment No. Eight to Landscape Inclusive Memorandum of Understanding

As requested in your e-mail of April 3, 2014, I have prepared and attached the following captioned resolution:

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A DISTRICT FOUR (4) AMENDMENT NUMBER EIGHT (8) TO LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT BETWEEN THE CITY OF POMPANO BEACH AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FOR ADDITIONAL LANDSCAPE IMPROVEMENTS ON STATE ROAD 814 (ATLANTIC BOULEVARD) FROM 123 FEET EAST OF SE 4TH TERRACE TO SE 6TH AVENUE); PROVIDING AN EFFECTIVE DATE.

Please feel free to contact me if I may be of further assistance.

Jill R. Mesojedec

JILL R. MESOJEDEC

/jrm
l:cor/pw/2015-820

Attachment

RESOLUTION NO. 2015- _____

CITY OF POMPANO BEACH
Broward County, Florida

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA, APPROVING AND AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A DISTRICT FOUR (4) AMENDMENT NUMBER EIGHT (8) TO LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT BETWEEN THE CITY OF POMPANO BEACH AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FOR ADDITIONAL LANDSCAPE IMPROVEMENTS ON STATE ROAD 814 (ATLANTIC BOULEVARD) FROM 123 FEET EAST OF SE 4TH TERRACE TO SE 6TH AVENUE); PROVIDING AN EFFECTIVE DATE.

BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF POMPANO BEACH, FLORIDA:

SECTION 1. That an Amendment Number Eight (8) between the City of Pompano Beach and the State of Florida Department of Transportation, a copy of which Agreement is attached hereto and incorporated by reference as if set forth in full, is hereby approved.

SECTION 2. That the proper City officials are hereby authorized to execute said Agreement between the City of Pompano Beach and the State of Florida Department of Transportation.

SECTION 3. This Resolution shall become effective upon passage.

PASSED AND ADOPTED this _____ day of _____, 2015.

LAMAR FISHER, MAYOR

ATTEST:

ASCELETA HAMMOND, CITY CLERK

SECTION No.(s): 86130000
S.R. No.(s): 814
PERMIT No: 2014-L-491-0004
COUNTY: BROWARD COUNTY

**DISTRICT FOUR (4) AMENDMENT NUMBER EIGHT (8) TO STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE
MEMORANDUM OF AGREEMENT**

THIS AMENDMENT Number Eight (8) to the Agreement dated December 5, 2007, 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 POMPANO BEACH, 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, December 5, 2007 for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road 814 (Atlantic Boulevard); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road 814 (Atlantic Boulevard) 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 1 of the Amendment Number Six (6) Landscape Inclusive Maintenance Memorandum of Agreement for State Road 814 (Atlantic Boulevard) dated August 9, 2013, the DEPARTMENT will allow an adjacent property owner to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road 814 (Atlantic Boulevard) from 123' feet east of S.E. 4th Terrace (M.P. 6.08) to S.E. 6th Avenue (M.P. 6.21). 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.

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

SECTION No.(s): 86130000
S.R. No.(s): 814
PERMIT No: 2014-L-491-0004
COUNTY: BROWARD COUNTY

EXHIBIT A

LANDSCAPE IMPROVEMENTS PROJECT LIMITS

MAINTENANCE BOUNDARIES LIMITS AND LOCATION MAP

- I. **PERMIT PROJECT MAINTENANCE LIMITS:**
State Road 814 (Atlantic Boulevard) from 123' feet east of S.E. 4th Terrace (M.P. 6.08) to S.E. 6th Avenue (M.P. 6.21)

- II. **INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS:**
State road 814 (Atlantic Boulevard) State Road 849 (M.P. 3.338) to State Road A1A (M.P. 7.870)

- III. **MAINTENANCE BOUNDARY LIMITS MAP:**

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

Please See Attached

SECTION No.(s): 86130000
S.R. No.(s): 814
PERMIT No: 2014-L-491-0004
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: Derick Langel, RLA

Keith And Associates, Inc.
Sheet 1
Sheets TD 1 - 5
Sheets L 1-6
Sheets LN 1-3
Sheets IRR 1-3
Sheet LM 1

Date: November 3, 2014

James A. Thiele, P.E.

Sheet MT 1

January 14, 2015

COMPONENTS OF CONTRACT PLANS SET

- TREE DISPOSITION PLANS
- LANDSCAPE PLANS
- LANDSCAPE NOTES
- IRRIGATION DETAILS / NOTES

GOVERNING STANDARDS AND SPECIFICATIONS:

2014 FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS INDEX 700, AND 2014 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 680 LANDSCAPE INSTALLATION DATED 2014 AND ANY APPLICABLE UPDATES, AS AMENDED BY CONTRACT DOCUMENTS.

FOR DESIGN STANDARDS REVISIONS CLICK ON "DESIGN STANDARDS" LINK AT THE FOLLOWING WEB SITE: <http://www.dot.state.fl.us/dds/rdsgn/>

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
TD-1	TREE DISPOSITION KEY PLAN
TD-2	TREE DISPOSITION PLAN
TD-3	TREE DISPOSITION PLAN
TD-4	TREE DISPOSITION PLAN
TD-5	TREE DISPOSITION LIST AND LEGEND
L-1	LANDSCAPE KEY PLAN
L-2	TABULATION OF QUANTITIES-PLANT SCHEDULE
L-3	LANDSCAPE PLAN
L-4	LANDSCAPE PLAN
L-5	LANDSCAPE PLAN
L-6	LANDSCAPE PLAN
LN-1	LANDSCAPE NOTES
LN-2	LANDSCAPE NOTES
LN-3	LANDSCAPE NOTES
IRR-1	IRRIGATION DETAILS
IRR-2	IRRIGATION DETAILS
IRR-3	IRRIGATION DETAILS / NOTES
LM-1	LANDSCAPE MAINTENANCE PLAN
MT-1	MAINTENANCE OF TRAFFIC NOTES

LIST OF REVISED INDEX DRAWINGS OF LANDSCAPE PLANS

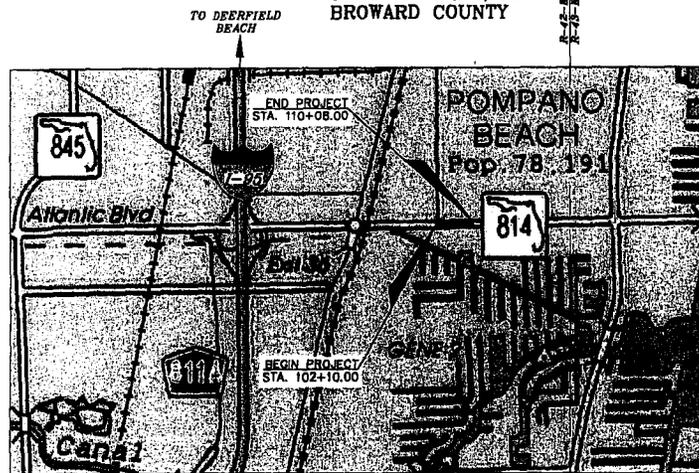
SHEET NO.	SHEET DESCRIPTION
LM-2	REMOVED AS PER 5/8/14 COMMENTS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS
KOI TRANQUIL LIVING
DRIVEWAY ACCESS
PROPOSED LANDSCAPE

ATLANTIC BOULEVARD
(STATE ROAD 814)

POMPANO BEACH, FL
BROWARD COUNTY



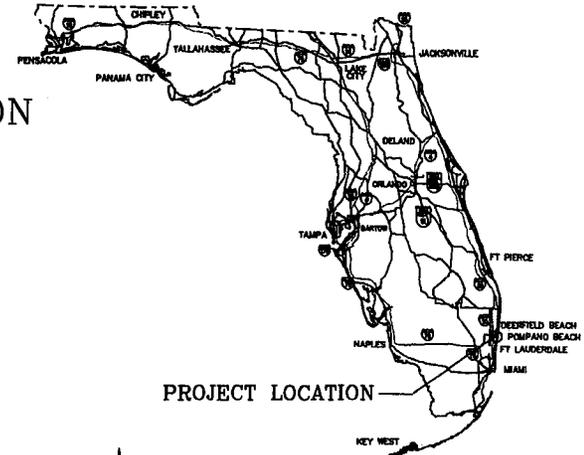
VICINITY MAP

SECTION 01, TOWNSHIP 49 SOUTH, RANGE 42 EAST
N.T.S.

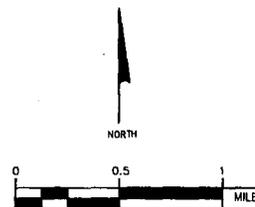
PROJECT LENGTH IS BASED ON AVAILABLE SURVEY INFORMATION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY LANDSCAPE	800	0.1515
BRIDGES	0	0
NET LENGTH OF PROJECT	800	0.1515
EXCEPTIONS	0	0
GROSS LENGTH OF PROJECT	800	0.1515
	0	0
	0	0

PDOT PROJECT MANAGER: ELISABETH HASSETT, RLA.
DISTRICT IV LANDSCAPE ARCHITECT



PROJECT LOCATION



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

PLANS PREPARED BY:

KEITH
consulting engineers

301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-6643
(954) 788-3400 FAX (954) 788-3500
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7928

KEY SHEET OF REVISIONS

DATE	DESCRIPTION
7/9/2014	PER FDOT 6/24/14
9/4/2014	PER FDOT 8/12/14

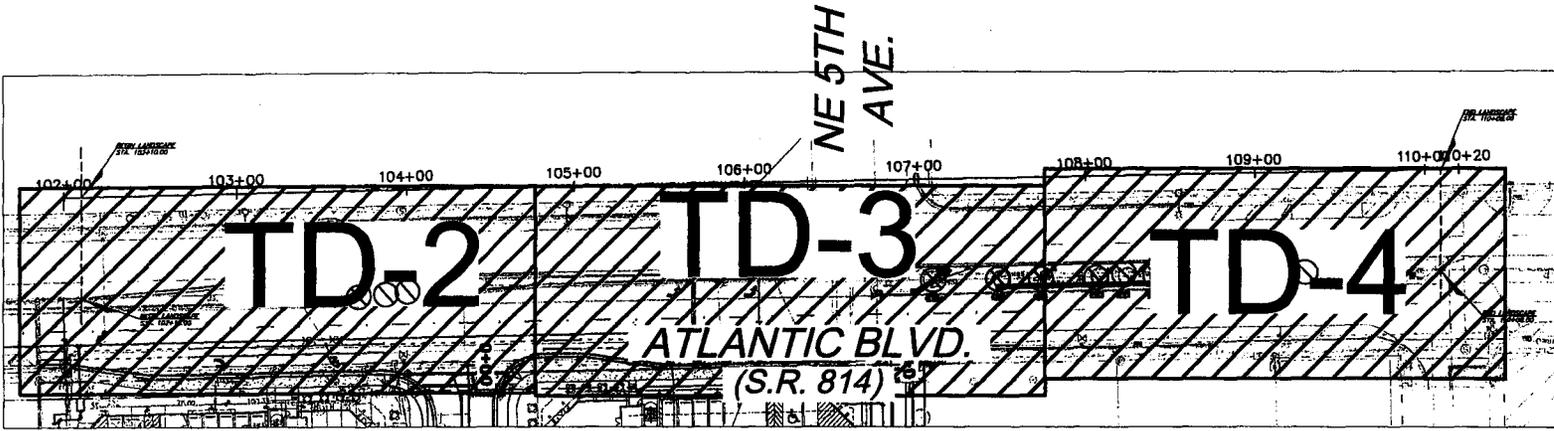
POSTED SPEED LIMIT 35 MPH
DESIGN SPEED LIMIT 45 MPH

NOV 03 2014

LANDSCAPE ARCHITECT OF RECORD: DERICK LANGEL, RLA.

R.L.A. NO.: LA6667045

FISCAL YEAR	SHEET NO.
14	1



KEY MAP

N.T.S.

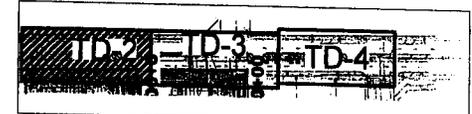


REVISIONS						ISSUE DATE		STATE OF FLORIDA			SHEET NAME		SHEET NO.	
NO.	DATE	BY:	DESCRIPTION:	NO.	DATE	BY:	DESCRIPTION:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	KOI TRANQUIL LIVING DRIVEWAY ACCESS KEY PLAN		SCALE:	SHEET NO.
								S.R. B14	BROWARD	N/A			AS INDICATED	TD-1
													PROJECT NO:	
													07248.01	

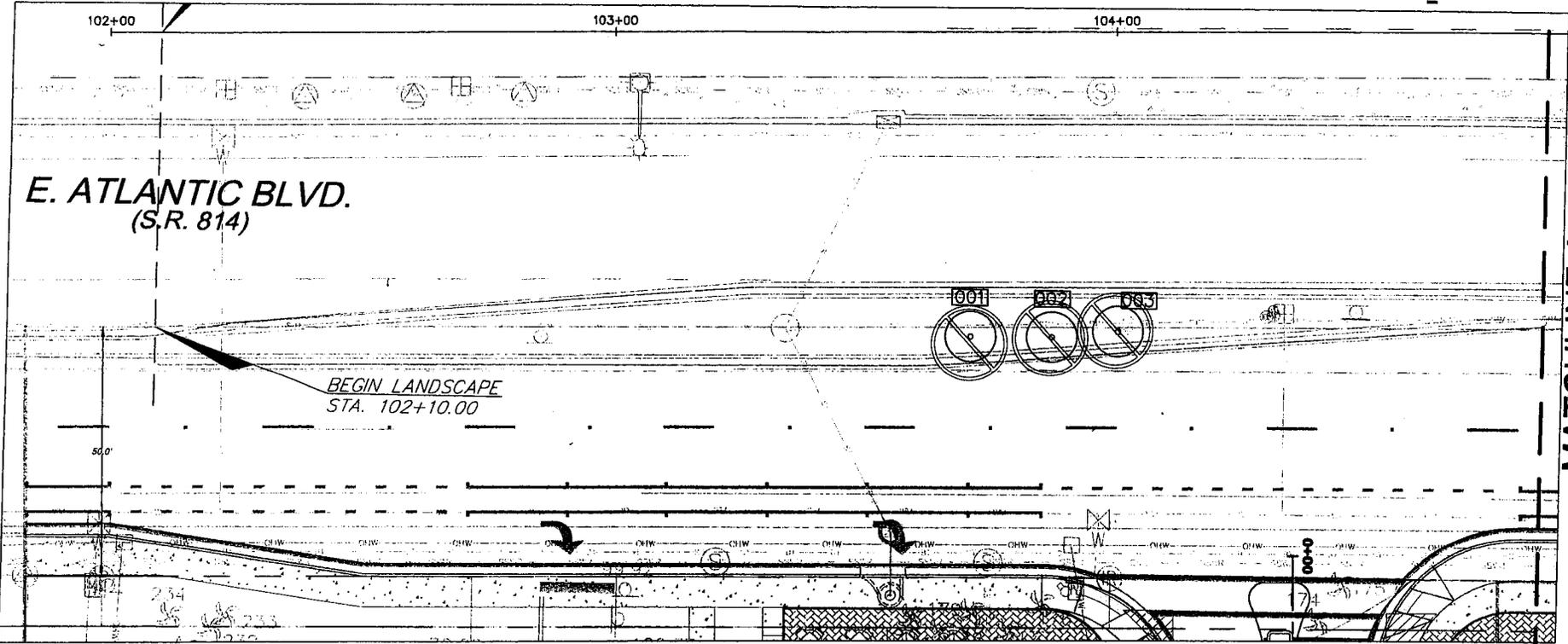
KEITH
CONSULTING ENGINEERS
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-8843
(954) 788-3400 FAX (954) 788-3500
STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7029

NOV 03 2014

NOTE: APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION. A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE CITY OF POMPANO BEACH.



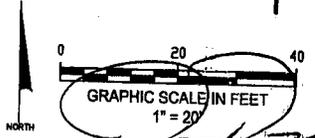
KEY MAP
N.T.S.



MATCHLINE A-A

TREE DISPOSITION LEGEND:

Existing TREE/PALM TO BE RELOCATED Refer To Landscape Plan For New Location (Refer To Tree Survey/Disposition Plan List For Species and Canopy Size)	Existing TREE/PALM TO BE REMOVED Migrated with Replacement Trees - Refer To Landscape Plan (Refer To Tree Survey/Disposition Plan List For Species and Canopy Size)
Existing TREE/PALM TO REMAIN Refer To Tree Disposition Legend - Details (Refer To Tree Survey/Disposition Plan List For Species and Canopy Size)	



REVISIONS

NO.	DATE:	BY:	DESCRIPTION:	NO.	DATE:	BY:	DESCRIPTION:

KEITH
consulting engineers
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-8843
(954) 788-3400 FAX (954) 788-3500
STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7229

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
S.R. 814 BROWARD N/A
(ATLANTIC BLVD.)

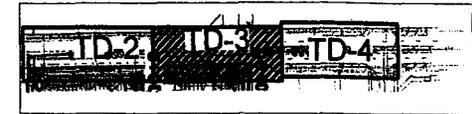
SHEET NAME:
**KOI TRANQUIL LIVING
DRIVEWAY ACCESS
TREE DISPOSITION PLAN**

SCALE: AS INDICATED	SHEET NO. TD-2
PROJECT NO: 07248.01	

NOV 03 2014

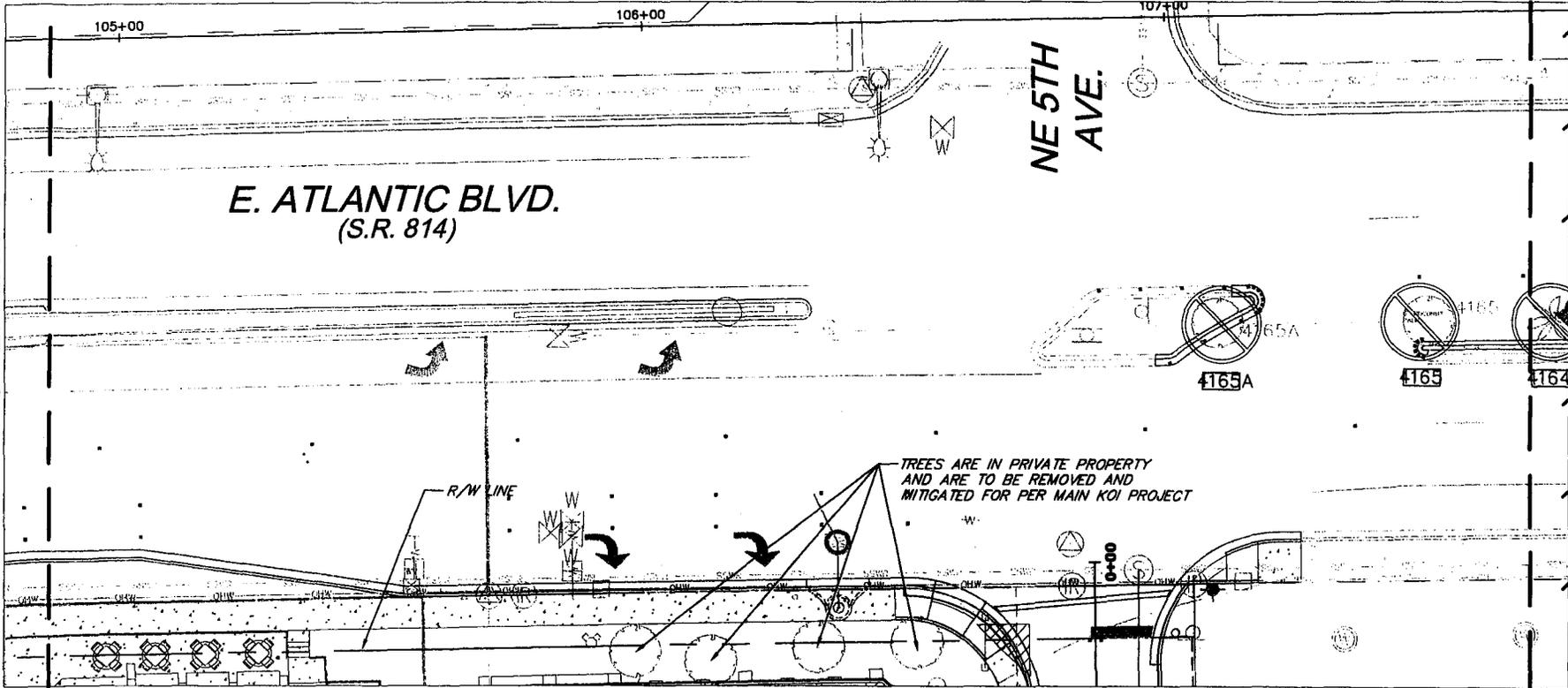
NOTE: APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION. A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE CITY OF POMPANO BEACH.

KEY MAP
N.T.S.



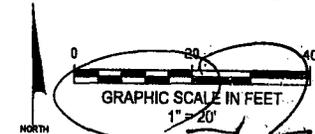
MATCHLINE A-A

MATCHLINE B-B



TREE DISPOSITION LEGEND:

	Tree/Palm Number (TP) Existing TREE/PALM TO BE RELOCATED <small>Refer To Landmark Map For Tree Location (Refer To Tree Survey/Disposition Plan List For Species and Canopy Size)</small>
	Tree/Palm Number (TP) Existing TREE/PALM TO REMAIN <small>Refer To Tree Protection/Existing Construction Detail (Refer To Tree Survey/Disposition Plan List For Species and Canopy Size)</small>
	Existing TREE/PALM TO BE REMOVED <small>Mitigated with Replacement Tree Table (If Landmark Plan (Refer To Tree Survey/Disposition Plan List For Species and Canopy Size)</small>



REVISIONS			
NO.	DATE	BY	DESCRIPTION

	03-19-14		
	03-19-14		
	03-19-14		

KEITH
consulting engineers
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33080-8643
(954) 785-3400 FAX (954) 788-5300
STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7829

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. S.R. 814 (ATLANTIC BLVD.)	COUNTY BROWARD	FINANCIAL PROJECT ID N/A
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SHEET NAME:
**KOI TRANQUIL LIVING
DRIVEWAY ACCESS
TREE DISPOSITION PLAN**

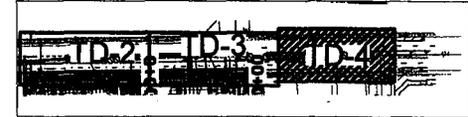
SCALE:
AS INDICATED
PROJECT NO:
07248.01

SHEET NO.
TD-3

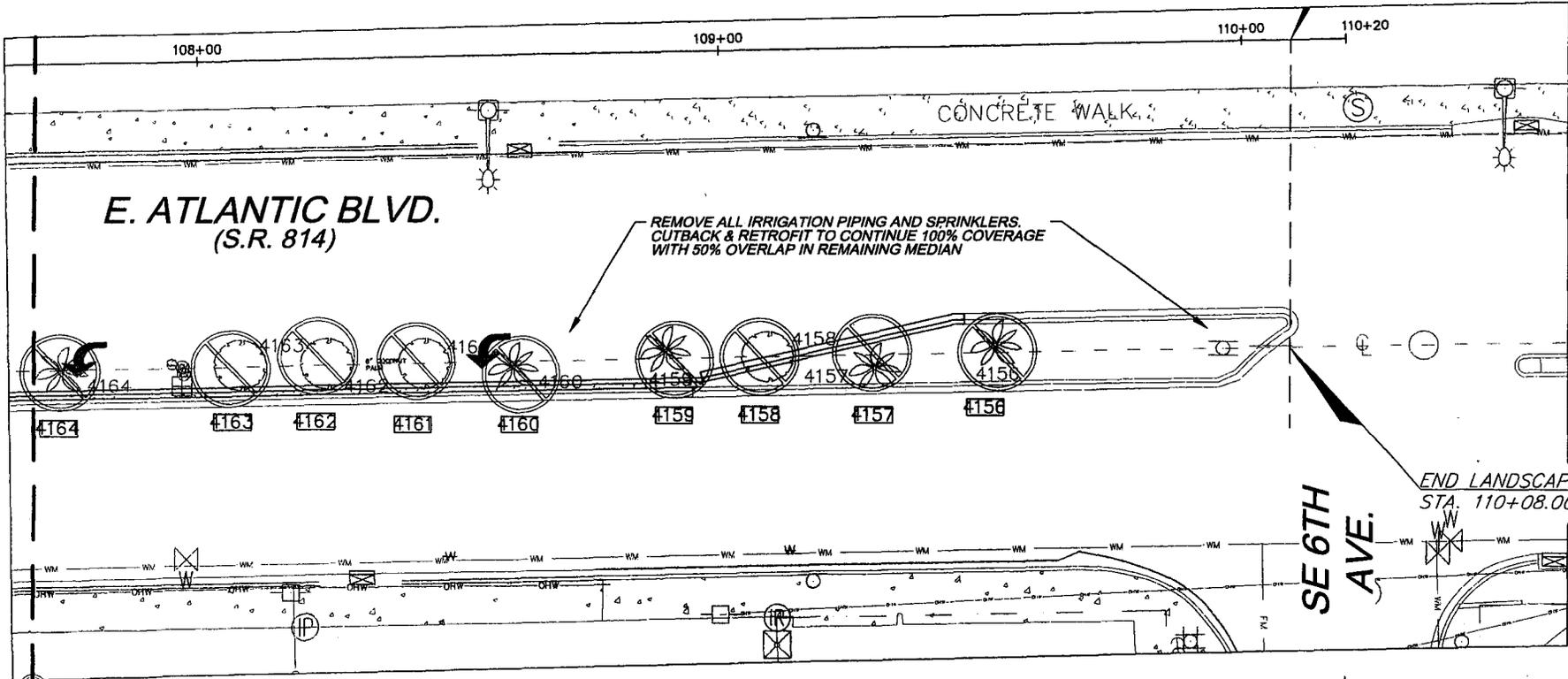
NOV 03 2014

NOTE: APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION. A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE CITY OF POMPANO BEACH.

KEY MAP
N.T.S.

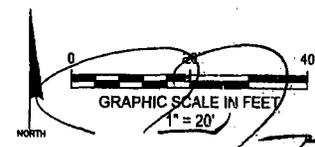


MATCHLINE B-B



TREE DISPOSITION LEGEND:

Existing TREE/PALM TO REMAIN Refer To Tree Protection during Construction - Great (Refer To Tree Survey/Clipboard Plan List For Species and Canopy Sizes)	Existing TREE/PALM TO BE RELOCATED Refer To Landscape Plan For Tree Relocation (Refer To Tree Survey/Clipboard Plan List For Species and Canopy Sizes)
Existing TREE/PALM TO BE REMOVED Refer To Tree Survey/Clipboard Plan List For Species and Canopy Sizes	Existing TREE/PALM TO BE REMOVED Refer To Tree Survey/Clipboard Plan List For Species and Canopy Sizes



REVISIONS							
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

KEITH
consulting engineers
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-6943
(954) 788-3400 FAX (954) 788-3900
STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7928

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
S.R. 814 BROWARD N/A
(ATLANTIC BLVD.)

SHEET NAME:
KOI TRANQUIL LIVING
DRIVEWAY ACCESS
TREE DISPOSITION PLAN

SCALE: AS INDICATED
PROJECT NO: 07248.01
SHEET NO. TD-4

NOV 03 2014

TREE NUMBER	COMMON NAME	SCIENTIFIC NAME SPECIES	DBH IN.	HT. FT.	CPY. FT.	TREE CONDITION	TREE DISPOSITION	CALIPER LOSS INCHES	APPRAISAL	CANOPY LOSS SF	COMMENTS REMARKS	
001	GUMBO LIMBO	"Bursera simaruba"	8	14'	12'	GOOD	TO BE REMOVED	8	\$ 890.00	78		
002	GUMBO LIMBO	"Bursera simaruba"	8	14'	14'	GOOD	TO BE REMOVED	8	\$ 975.00	78		
003	GUMBO LIMBO	"Bursera simaruba"	8	14'	12'	GOOD	TO BE REMOVED	8	\$ 890.00	78		
4156	COCONUT PALM	"Cocos nucifera"	16	23'	16'	GOOD	TO BE REMOVED	16	\$ 1,260.00	201		
4157	COCONUT PALM	"Cocos nucifera"	14	18'	14'	GOOD	TO BE REMOVED	14	\$ 1,160.00	154		
4158	BRIDALVEL	"Caesalpinia grandillo"	4	16'	12'	FAIR	TO BE REMOVED	4	\$ 975.00	119		
4159	SARAL PALM	"Sabal palmetto"	10	20'	12'	GOOD	TO BE REMOVED	10	\$ 280.00	78		
4160	COCONUT PALM	"Cocos nucifera"	14	16'	16'	GOOD	TO BE REMOVED	7	\$ 1,080.00	154		
4161	GUMBO LIMBO	"Bursera simaruba"	11	20'	16'	GOOD	TO BE REMOVED	11	\$ 1,100.00	201		
4162	GUMBO LIMBO	"Bursera simaruba"	10	16'	14'	GOOD	TO BE REMOVED	10	\$ 900.00	154		
4163	GUMBO LIMBO	"Bursera simaruba"	11	16'	14'	GOOD	TO BE REMOVED	11	\$ 875.00	154		
4164	COCONUT PALM	"Cocos nucifera"	16	20'	16'	GOOD	TO BE REMOVED	10	\$ 1,200.00	201		
4165	GUMBO LIMBO	"Bursera simaruba"	9	16'	12'	GOOD	TO BE REMOVED	9	\$ 890.00	119		
4165A	BRIDALVEL	"Caesalpinia grandillo"	3	12'	10'	FAIR	TO BE REMOVED	3	\$ 900.00	78		
									113	\$ 13,445.00	1538	TOTAL REPLACEMENT TREE CANOPY REQUIRED ON SITE
												TOTAL REPLACEMENT TREE CANOPY PROVIDED ON SITE

REFER TO LANDSCAPE PLANS

TREE DISPOSITION LEGEND:

Existing TREE/PALM TO REMAIN
 Refer To Tree Protection during construction - Detail.
 (Refer To 'Tree Survey /Disposition Plan List' For Species and Canopy Sizes)

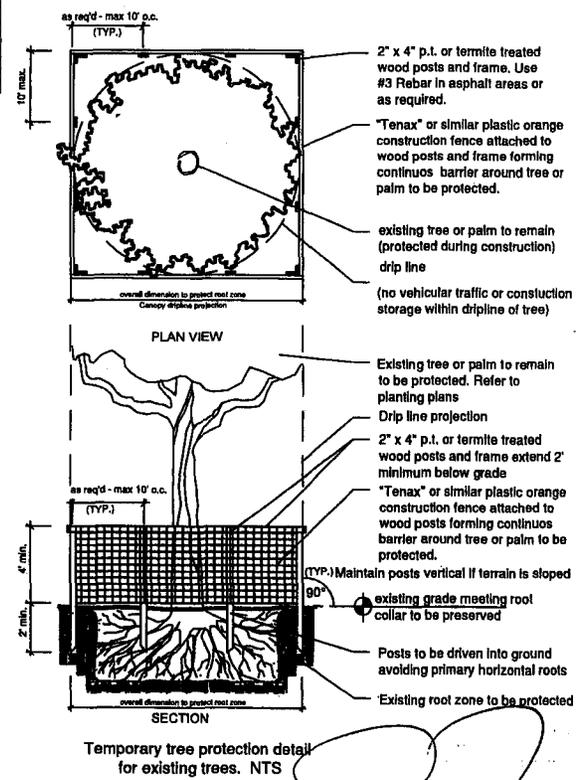
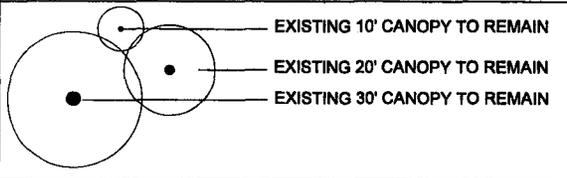
Existing TREE/PALM TO BE RELOCATED
 Refer To Landscape Plan for new location
 (Refer To 'Tree Survey /Disposition Plan List' For Species and Canopy Sizes)

Existing TREE/PALM TO BE REMOVED
 Mitigated with Replacement Trees - Refer To Landscape Plan
 (Refer To 'Tree Survey /Disposition Plan List' For Species and Canopy Sizes)

TREE REMOVAL NOTES:

- ALL TREES AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL PROTECTIVE BARRIERS SUCH AS "TENAX" ORANGE SAFETY FENCING OR SIMILAR, TO BE INSTALLED AT THE BEGINNING OF THE PROJECT. BARRIERS SHALL BE LOCATED TO INCLUDE THE DRIP LINE OF THE TREES, PALMS AND PLANT MATERIAL. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, ROOT ZONES AND GRADE. SEE TREE PROTECTION DETAIL.
- EXISTING TREES TO REMAIN SHALL BE TRIMMED PER ANSI-A300 STANDARDS, REMOVING WEAKEST RUBBING BRANCHES AND DEAD BRANCHES, BUT RETAINING 80% OF FOLIAGE UNLESS OTHERWISE NOTED. LARGE TREES SHALL HAVE LOWER BRANCHES CLEARED UP TO 8'.
- TRIMMING AND ANY NECESSARY ROOT PRUNING SHALL BE PERFORMED OR SUPERVISED BY A CERTIFIED ARBORIST TO INSURE QUALITY WORK AND MAXIMIZE SURVIVAL RATE.
- REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL. NON-NATIVE TREES CLASSIFIED AS NUISANCE TREES MAY BE EXEMPT FROM THE PERMIT. REFER TO TREE DISPOSITION LIST AND ALSO CONFIRM WITH LOCAL GOVERNING AGENCY.

LANDSCAPE PLAN LEGEND

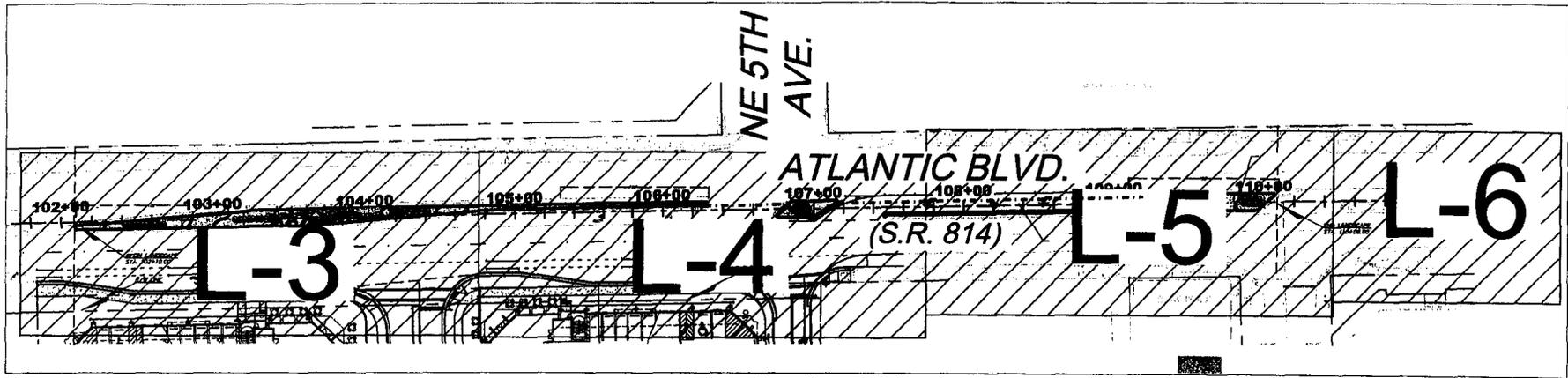


Temporary tree protection detail for existing trees. NTS

NOV 03 2014

REVISIONS				DATE		BY		DESCRIPTION	
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION	NO.	DATE

CONSULTING ENGINEER KEITH 301 EAST ATLANTIC BOULEVARD POMPANO BEACH, FLORIDA 33060-8645 (954) 788-8400 FAX (954) 788-5800 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7921	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO. COUNTY FINANCIAL PROJECT ID S.R. 814 BROWARD N/A	SHEET NAME: KOI TRANQUIL LIVING DRIVEWAY ACCESS TREE DISPOSITION LIST	SCALE: AS INDICATED PROJECT NO: 07248.01	SHEET NO. TD-5
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KEY MAP

N.T.S.

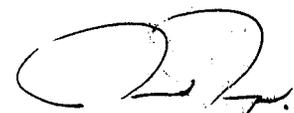


REVISIONS						 301 EAST ATLANTIC BOULEVARD POMPANNO BEACH, FLORIDA 33069-9843 (954) 789-3400 FAX (954) 788-3500 <small>STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7923</small>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NAME: KOI TRANQUIL LIVING DRIVEWAY ACCESS KEY PLAN	SCALE: AS INDICATED PROJECT NO: 07248.01	SHEET NO. L-1
NO.	DATE	BY:	DESCRIPTION:	NO.	DATE		BY:	DESCRIPTION:			

NOV 03 2014

PLANT SCHEDULE

<u>PALM TREES</u>	<u>CODE</u>	<u>COMMON NAME</u>	<u>BOTANICAL NAME</u>	<u>CONT</u>	<u>SIZE</u>	<u>QTY</u>	<u>REMARKS</u>
	VEI MON	Montgomery Palm	Veitchia montgomeryana	Field grown, B+B	22" O.A.	5	
<u>SHRUBS</u>	<u>CODE</u>	<u>COMMON NAME</u>	<u>BOTANICAL NAME</u>	<u>CONT</u>	<u>SPACING</u>	<u>QTY</u>	<u>REMARKS</u>
	HEM ATE	Daylily	Hemerocallis spp	1 gal	14" o.c.	437	Maintain at 18" Height, color mix
<u>GROUND COVERS</u>	<u>CODE</u>	<u>COMMON NAME</u>	<u>BOTANICAL NAME</u>	<u>CONT</u>	<u>SPACING</u>	<u>QTY</u>	<u>REMARKS</u>
	ARA GLA	Perennial Peanut	Arachis glabrata	1 gal	12" o.c.	342	4" Height max.
	BUL FRU	Stalked Bulbine	Bulbine frutescens "desert candles"	1 gal	12" o.c.	837	Maintained at 10" Height
	DUR SA2	Sapphire Showers Duranta	Duranta repens "Sapphire Showers"	1 gal	12" o.c.	100	Maintained at 18" Height
	FIC GR3	Green Island Ficus	Ficus microcarpa "Green Island"	1 gal	12" o.c.	104	Maintained at 18" Height
	MIM STR	Sensitive Plant	Mimosa strigilosa	4"pot	12" o.c.	596	Maintained at 4" Height
	NEO REG	Iris	Neomanca caerulea "Regina"	1 gal	12" o.c.	275	Maintained at 18" Height
	NEO FIR	Fireball Bromeliad	Neoregelia x "Fireball"	1 gal	12" o.c.	790	
	TRA TR3	Tri-Color Star Jasmine	Trachelospermum jasminoides "Tricolor"	1 gal	12" o.c.	420	Maintained at 3" Height
	TUL VIO	Society Garlic	Tulbaghia violacea	1 gal	12" o.c.	141	



NOV 03 2014

REVISIONS						 301 EAST ATLANTIC BOULEVARD POMPANNO BEACH, FLORIDA 33060-8643 (954) 788-3400 FAX (954) 788-3600 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7926	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NAME:		EXHIBIT 'B'	SHEET NO.			
NO.	DATE	BY:	DESCRIPTION:	NO.	DATE:		BY:	DESCRIPTION:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SCALE:	PROJECT NO: 07246.01	I-2		
									S.R. 814	BROWARD	N/A	AS INDICATED				
									(ATLANTIC BLVD.)							

KOI TRANQUIL LIVING
DRIVEWAY ACCESS
PLANT SCHEDULE

SIGHT LINE CRITERIA (45 MPH DESIGN SPEED):
 4 LANE DIVIDED (ATLANTIC BLVD.)
 MEDIAN NARROWER THAN 22'
 SIGHT DISTANCE FOR CARS CROSSING FROM A
 DIRECTIONAL MEDIAN OPENING IS 395 FEET

NOTES:
 1. APPROVAL OF THIS PLAN DOES NOT
 CONSTITUTE A PERMIT FOR CONSTRUCTION. A
 PERMIT FOR CONSTRUCTION MUST BE OBTAINED
 FROM THE CITY OF POMPANO BEACH.

KEY MAP
 N.T.S.

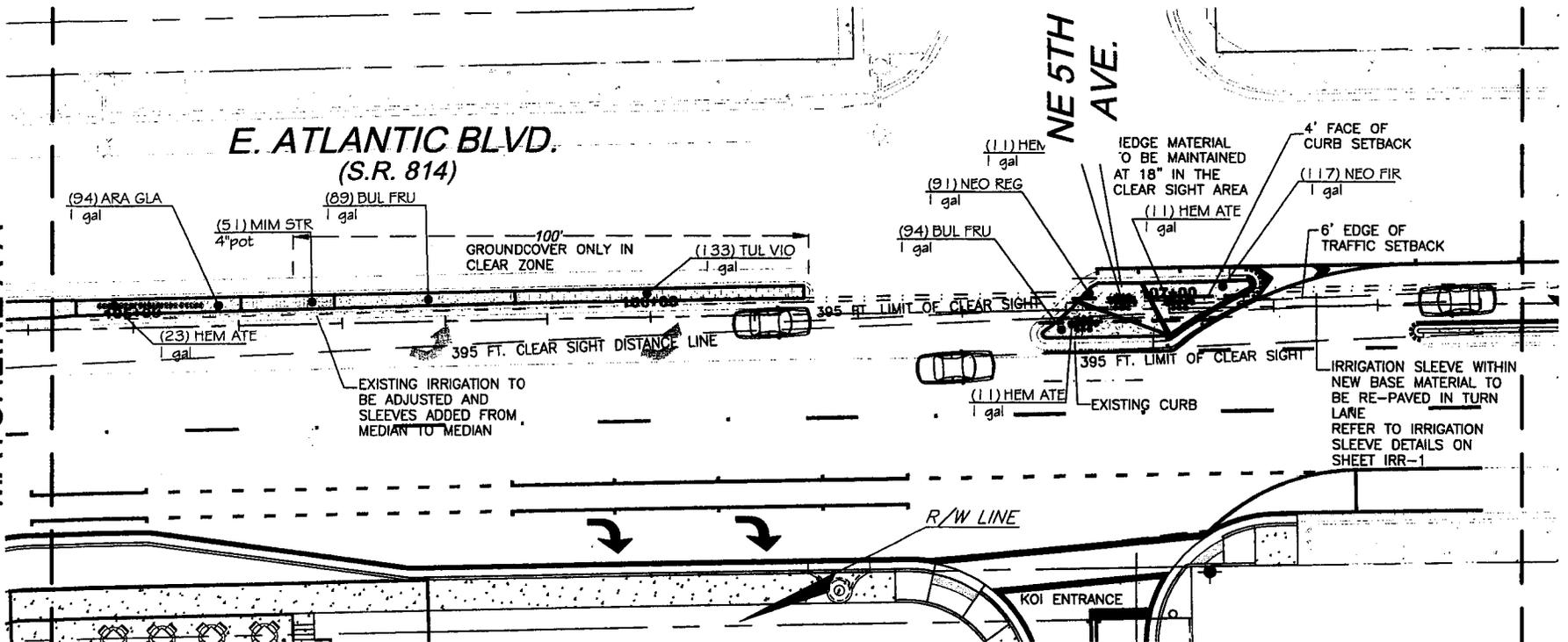


MATCHLINE A-A

MATCHLINE B-B

E. ATLANTIC BLVD.
 (S.R. 814)

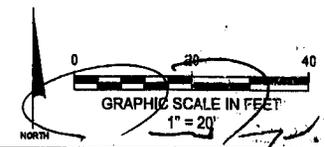
**NE 5TH
 AVE.**



PLANT SCHEDULE

PLANT	CODE	COMMON NAME	BOTANICAL NAME	CONT.
★	VB MCH	Montgomery Palm	Washingtonia robusta	Full grown, 818
★	HEM ATE	Dogeye	Hemocallis spp.	1 gal
GROUND COVERS				
□	ARA GLA	Florida Fanpal	Arachnoid glabra	1 gal

□	BUL FRU	Shaded Bulb	Bulb Indivisa 'Sweet Smiles'	1 gal	□	HEO REG	Ira	Hebe grandis 'Rapun'	1 gal
□	DUR SAL	Shyplee Shrub	Durandia repens 'Shyplee Shrub'	1 gal	□	HEO FR	Football	Hebe grandis 'Football'	1 gal
□	RC GR3	Green Island Plant	Rose monacensis 'Green Island'	1 gal	□	TRA TRS	Tra-Color Star Jasmine	Trachelospermum jasminoides 'Tra-Color'	1 gal
□	UM STR	Sensitive Plant	Mimosa strigillosa	4" pot	□	TUL VIO	Society Garlic	Tulbaghia violacea	1 gal



REVISIONS

NO.	DATE	BY	DESCRIPTION

KEITH
 CONSULTING ENGINEERS
 301 EAST ATLANTIC BOULEVARD
 POMPANO BEACH, FLORIDA 33080-0843
 (954) 788-3400 FAX (954) 788-0800
 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7028

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 S.R. 814 BROWARD N/A

SHEET NAME:
**KOI TRANQUIL LIVING
 DRIVEWAY ACCESS
 LANDSCAPE PLAN**

SCALE: AS INDICATED
 PROJECT NO: 07248.01
 SHEET NO. L-4

NOV 03 2014

SIGHT LINE CRITERIA (45 MPH DESIGN SPEED):
 4 LANE DIVIDED (ATLANTIC BLVD.)
 MEDIAN NARROWER THAN 22'
 SIGHT DISTANCE FOR CARS CROSSING FROM A
 DIRECTIONAL MEDIAN OPENING IS 395 FEET

NOTES:
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 PERMIT FOR CONSTRUCTION MUST BE OBTAINED
 FROM THE CITY OF POMPANO BEACH.

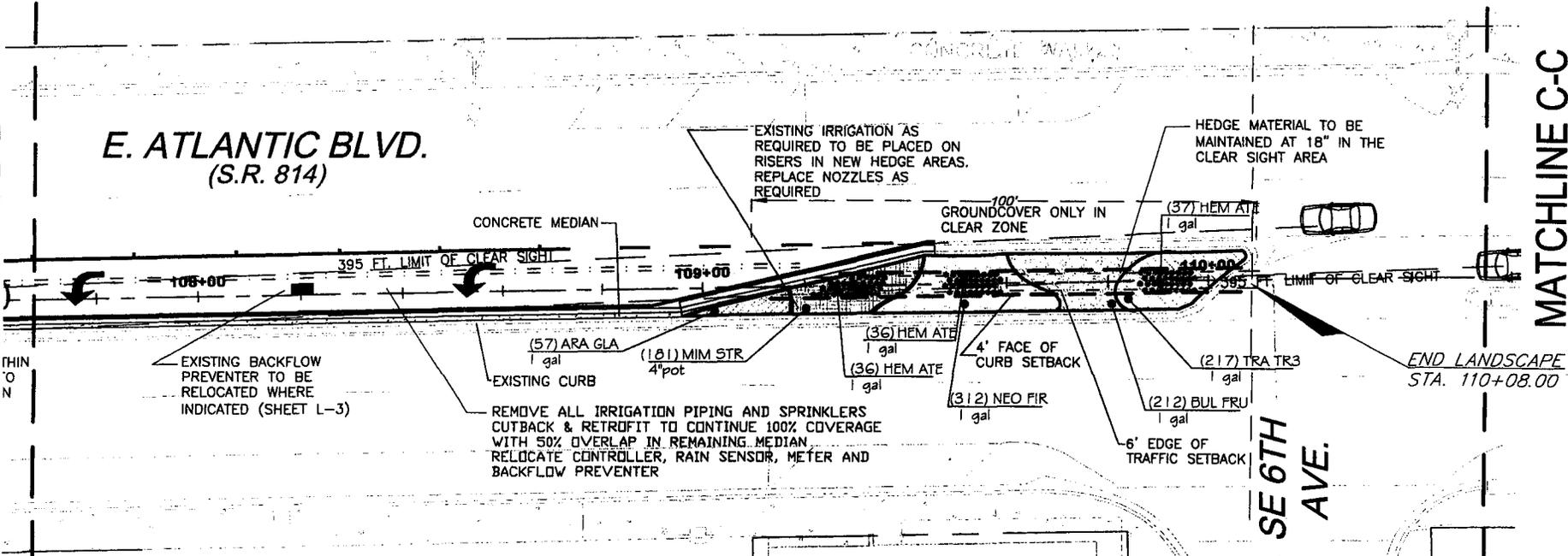
KEY MAP
 N.T.S.



MATCHLINE B-B

MATCHLINE C-C

E. ATLANTIC BLVD.
 (S.R. 814)

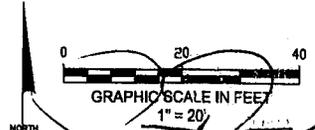


PLANT SCHEDULE

PLANT TYPE	CODE	COMMON NAME	BOTANICAL NAME	CONT.
★	VEI MGN	Montgomery Palm	Washingtonia rooseana	Field grown, DHD
☼	MEM ATE	Dyckia	Hemerocallis spp.	1 gal
☼	ARA GLA	Floral Parrot	Anacardium occidentale	1 gal

☼	BUL FRU	Stylized Bulb	Dulacis Intercens 'Heart Garden'	1 gal
☼	DUR SAZ	Stylized Shrub	Durandia repens 'Stylized Shrub'	1 gal
☼	FC GLS	Green Island Palm	Ficus excelsior 'Green Island'	1 gal
☼	MIM STR	Stylized Plant	Mimosa stipitata	4' pot

☼	NEO REC	Red	Koeleria corymbosa 'Rays'	1 gal
☼	NEO FR	Red	Hemerocallis 'Frost'	1 gal
☼	TRA TR3	Tricolor Star Jasmine	Trachelium perenne 'Tricolor'	1 gal
☼	TRA VID	Stylized Plant	Yucca rostrata	1 gal



REVISIONS				
NO.	DATE	BY	DESCRIPTION	

KEITH
 consulting engineers
 301 EAST ATLANTIC BOULEVARD
 POMPANO BEACH, FLORIDA 33069-0843
 (954) 788-3400 FAX (954) 788-3500
 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7828

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 S.R. 814 BROWARD N/A

SHEET NAME:
**KOI TRANQUIL LIVING
 DRIVEWAY ACCESS
 LANDSCAPE PLAN**

SHEET NO.
 SCALE:
 AS INDICATED
 PROJECT NO:
 07248.01

NOV 03 2014

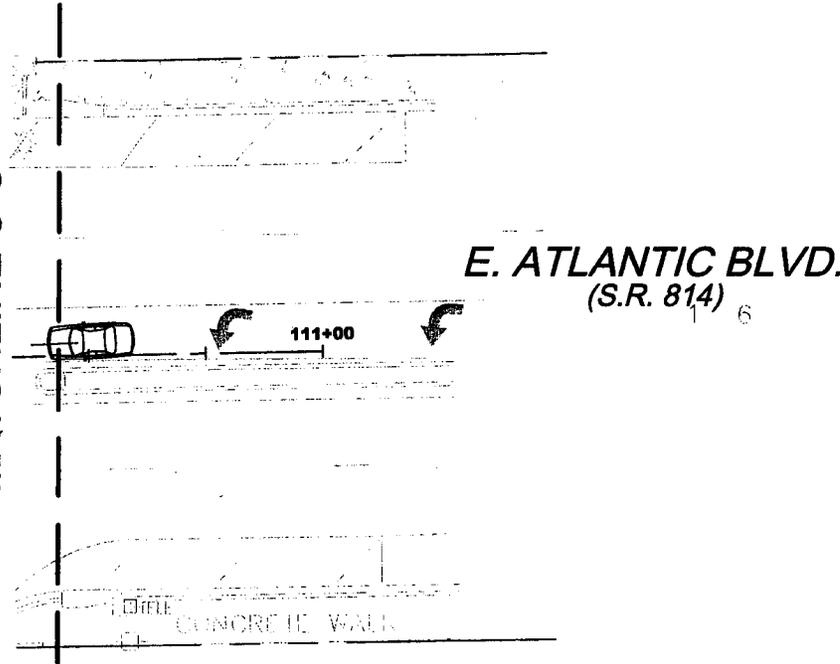
SIGHT LINE CRITERIA (45 MPH DESIGN SPEED):
 4 LANE DIVIDED (ATLANTIC BLVD.)
 MEDIAN NARROWER THAN 22'
 SIGHT DISTANCE FOR CARS CROSSING FROM A
 DIRECTIONAL MEDIAN OPENING IS 395 FEET

NOTES:
 1. APPROVAL OF THIS PLAN DOES NOT
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 FROM THE CITY OF POMPANO BEACH.

KEY MAP
 N.T.S.



MATCHLINE C-C

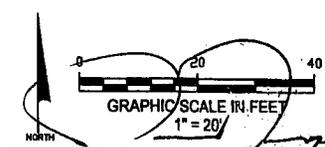


PLANT SCHEDULE

PLANT SYMBOL	CODE	COMMON NAME	BOTANICAL NAME	QTY
	VED MCH	Montgomery Palm	<i>Veitchia montgomeryana</i>	Field grown, B&B
	HEM ATE	Dyaly	<i>Hemiprocitis spp.</i>	1 gal
	ARA GEA	Parsonal Plant	<i>Arachis glabrata</i>	1 gal

	DUR PRU	Staked Palms	<i>Bulnesia tomentosa 'Secret candle'</i>	1 gal
	DUR SAZ	Sapphire Showers Duranta	<i>Duranta repens 'Sapphire Showers'</i>	1 gal
	PIC GAZ	Great Island Pines	<i>Pinus monophylla 'Green Island'</i>	1 gal
	M&B STX	Sensative Plant	<i>Miconia strobilosa</i>	4 gal

	HEO RED	Ira	<i>Hamamelis canadensis 'Ranger'</i>	1 gal
	HEO FRB	Fraxel Broadleaf	<i>Hicoria glabra 'Fraxel'</i>	1 gal
	TRA TRS	Tri-Color Blue Jacaranda	<i>Tricholobium paniculatum 'Tricolor'</i>	1 gal
	TUB VIO	Beauty Curls	<i>Tubeghia violacea</i>	1 gal



REVISIONS							
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

Consulting Engineers
 301 EAST ATLANTIC BOULEVARD
 POMPANO BEACH, FLORIDA 33060-8843
 (954) 788-5400 FAX (954) 788-3500
 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7928

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 814 (ATLANTIC BLVD.)	BROWARD	N/A

SHEET NAME:
**KOI TRANQUIL LIVING
 DRIVEWAY ACCESS
 LANDSCAPE PLAN**

SCALE: AS INDICATED	SHEET NO. L-6
PROJECT NO: 07248.01	

NOV 03 2014

GENERAL LANDSCAPE NOTES:

A. SCOPE

The location of plants, as shown on the plans, is approximate. The final locations may be adjusted slightly to accommodate unforeseen field conditions, to comply with safety setback criteria, to avoid creating unsafe sight conditions, or as otherwise directed or approved by the Landscape Architect / owner in writing. All other location adjustments to the layout are to be approved in advance in writing by the Landscape Architect and owner. The contractor shall adhere to all pertaining FDOT Design Standard Indexes latest edition (<http://www.dot.state.fl.us/rdesign/DS/14/IDX/2014-DESIGN-STANDARDS.pdf>), especially 001 (FDOT Standard Abbreviations) 544 (Landscape Installation) 546 (Sight Distance at Intersections) 700 (Roadside Offsets) and all FDOT design standards for design, construction, maintenance and utility operations of the state highway system FDOT latest edition and as amended by contract documents.

B. BIDDING

- See all notes and typical planting details and FDOT indexes prior to bidding. FDOT Standard Index details are part of these contract documents
- Landscape contractor shall verify all estimated quantities of material shown on the drawings prior to submitting his bid. Planting plan to take precedence over plant list.
- Pre-inspections of site required prior to bidding.
- The plant list is intended only as an aid to bidding. Any discrepancies found between the quantities on the plan and plant list the quantities on the plan shall be held valid.
- All labor and material for soil amendments and fertilizer that is required to ensure the successful establishment and survival of the proposed vegetation, as well as all the cost for the removal of unsuitable or excess backfill material, shall be included in the contractor's bid to perform the work represented in this plan set.
- Sod is St. Augustine to match existing and shall include price per square foot.
- All s.f. if noted shall be approximate; it is the contractor's responsibility to do his take off and sod all open areas. It shall be the responsibility of the contractor to include in the bid, the repair of any existing sod which may be damaged during construction.
- Contractor shall be responsible for obtaining and paying for costs of all permits described in bid whether permit costs are reimbursable by owner or included.
- Verify site conditions before bidding. Installations may require additional equipment for specific conditions.
- Bidding shall include the FDOT mandatory 24 month establishment period of the Landscape and its maintenance.

C. GENERAL LANDSCAPE NOTES

- A certified landscape contractor shall direct landscape operations.
- Follow these notes in addition to FDOT standard specifications and design standards.
- ALL FDOT INDEXES SHALL GOVERN IF ANY INFORMATION IS IN CONFLICT**
- All landscaping shall be installed according to sound nursery practices. Plants grown in containers prior to installation shall be removed from their containers before they are planted in the ground and circling roots shall be properly severed. A layer of mulch to a minimum depth of three inches shall be installed in plant beds and around individual trees in turf areas.
- All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Keith and Associates and may not be duplicated without authorization or used for other projects than the intended.
- The Landscape Contractor shall exercise caution to protect all existing sod, electrical and any existing irrigation. Any damage to the sod, electrical or irrigation shall be replaced or repaired to the original state by the Landscape Contractor at no additional cost to the owner.
- Tree, palm, accent and bed lines are to be located in the field and approved by the Landscape Architect / owner prior to installation.
- Trees must be pruned as per landscape architect's direction.

D. PERMITS & REGULATIONS

- If required by the City, Contractor(s) must obtain separate landscape, irrigation & tree relocation/removal permits in addition to FDOT approval.
- Landscape contractor to call the City Landscape Inspector / District Landscape Architect to schedule a pre-construction meeting prior to installation if required.
- General contractor / Landscape Contractor to provide FDOT with maintenance of traffic "MOT Plans".

E. TREE REMOVAL

- All Tree removal per plans only. Trees not in FDOT ROW will require a written "tree removal permit" from the local governing agency prior to removal. Non-native trees classified as "prohibited" trees may be exempt from the permit.

F. EXISTING TREES & RELOCATION

- Existing trees designated to remain shall be protected during all construction phases. Any trees or shrubs scarred or destroyed designated to remain will be replaced at the contractor's expense, with same species, size and quality.
- Existing plant material not shown on the plan and in conflict with new planting shall be evaluated at the time of new planting installation by the Landscape Architect. Trees & plant material indicated to be relocated with no new location provided in plans shall be moved to a location on site designated as a nursery holding area with the root ball protected from direct sunlight, maintained and irrigated until new location is determined.
- Prune trees to remove damaged branches, improve natural shape and thin out structure. Do not remove more than 15% of branches. Do not prune back terminal leader.
- Prune existing shrubs to remove damaged branches & improve natural shape.
- Existing trees to remain shall be trimmed per ANSI-A300 standards. Supervision of the trimming shall be performed by an ISA Certified Arborist to insure quality work.
- All existing trees shall be "lifted and thinned" to provide an 8' minimum clearance for sidewalks and pedestrian walkways and a 14' minimum clearance for roadways, driveways and all vehicular use areas.
- Prune trees as required only.
- If plans call for relocation of trees, palms or plants. High level of care should be exercised to assure that they are not damaged in the process and that they are promptly replanted upon being dug up and the following shall apply:

Attach tree identification tags that match the plan numbers. Submit a shop drawing of the tagging method to the district Landscape Architect before the pre-construction meeting.
 Install trees within 24 hours after removal from their original location to new locations provided by the city. New location will be within 15 miles of the original location. Water the root zones to field capacity for 5 continuous days before root pruning.
 Root prune 8 weeks before relocation.
 Root prune with proper equipment to sever roots. ensure roots are not torn or pulled apart. submit root pruning procedures before the pre-construction meeting.
 Form a rootball of the following minimum sizes:
 • 24 inches by 12 inches deep for trees less than 5 inch caliper;
 • 36 inches by 18 inches deep for trees from 5 to 18 inch caliper; and
 • 48 inches by 24 inches deep for trees over 18 inch caliper.
 Maintain the soil moisture at field capacity during the 8 weeks.
 Brace root pruned trees awaiting relocation.
 Maintain trees in a healthy and vigorous condition during installation and during the plant establishment period. replace trees that do not meet this requirement with the same species, size, and quality as the original, or better.

G. SITE PREPARATION & GRADING

- Landscape contractor shall loosen & till compacted soils that are overly compacted in all planting areas of the project to provide for proper soil aeration for plant establishment.
- Planted areas shall be cleared of underground rocks, construction debris and other materials detrimental to the health of the plants. Lime rock base material shall be removed within planting pits and adjacent to pavement.
- Site preparation shall include the eradication & removal of any weeds, clean-up of any dead material, debris, and rubbish.
- Grading after tree removal shall be restored to existing. Existing swales are to be maintained as such.
- All planting beds shall be free of all rocks 1/2" or larger, sticks, and objectionable material including weeds, weed seeds. All lime rock shall be removed/cleaned down to the native soils.
- The Landscape contractor shall ensure the planting areas are at finish grade prior to installing plant materials. Grade shall be per plans, if not indicated, in any event drainage shall be directed away from roads and structures U.O.N.
- All trees and plant material to remain shall be protected during construction. Contractor shall install protective barriers as indicated in INDEX 544. The contractor shall take extra caution to prevent any damage to the trunk, root zones and grade.
- Final grade within planting areas to be 2" below adjacent paved areas or top of curb.
- All planting beds shall be shaped and sloped to provide proper drainage away from building & structures and to swales, if applicable.

H. HARDSCAPE & OTHER MATERIALS

- Face of trees and palms to be located a minimum of 2'-0" setback from all fences, walkways, walls, and paved surfaces, unless otherwise indicated on the plans.

I. UTILITIES/CLEARANCES

- The location of all existing utilities shown on these plans have been determined from the best information available at the time of plans preparation and are given for the convenience of the contractor. The Engineer / Landscape Architect assumes no responsibility for their accuracy. Prior to the start of any construction activity, it shall be the contractor's responsibility to notify the various utilities and to make the necessary arrangements for any relocations of these utilities with the owner of the utility. The contractor shall exercise caution when crossing an underground utility, whether shown on plans or located by the utility company. Any utilities, whether shown on these plans or not, that interfere with the proposed plans shall be closely coordinated with Landscape Architect for relocation of Landscape material and/or Utility company for relocation of utility. Bring to the attention of Engineer / Landscape Architect any utility/landscape conflicts.
- Contractor shall be responsible for determining the location of and avoid and protect utility lines, buried cables, and other utilities.
- Trees shall be placed a minimum of 5 ft. from underground utilities, unless otherwise approved.
- All shade trees to be planted min. of 15' from light poles. Unless otherwise approved in writing by Landscape architect and Owner.
- Landscape contractor shall contact the county, city and/or utility companies to locate all underground utilities or structures prior to digging. Landscape contractor shall repair all damage to underground utilities, and/or construction caused by utility damage, at no cost to the owner.
- All plant material symbols shown on landscape plan shall be considered diagrammatic and should be adjusted in the field by contractor to avoid all utilities, and all other obstructions.
- When digging in the right of way: Two (2) full business days before digging, call toll free 1-800-432-4770, or 811, Sunshine State One Call of Florida, Inc. Notification Center. In addition, call the City's Utilities/Public Works Department. Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation. All existing utilities shown on the plans are to be considered approximate and should be verified by the contractor prior to the start of work operations.
- Above & below ground utilities shall be verified & located in the field by the contractor prior to commencing work in the project area. The contractor shall examine available utility plans & confirm conflicts between indicated or located utilities & landscape work. The contractor shall then notify the Project Engineer of said conflicts & the Engineer will coordinate any necessary adjustments with the utility provider. Tree locations will be adjusted as necessary when in conflict with existing utilities.
- The final plant locations may be adjusted, as approved / directed by the Landscape Architect in writing, to accommodate utilities compliance. Excavations within 5' of known utilities should be done by hand.
- Contractor shall familiarize himself with the location of and avoid and protect utility lines, buried cables, and all other utilities, noted or not, on plans.
- Root barriers shall be installed where required by local utility company or other regulating agencies.
- Clearance and access shall be provided around all above ground or at grade meters and equipment.
- Landscape planting shall be in conformance with FPL guidelines for setbacks from overhead utility lines.
- Landscape shall not interfere with light poles, fire hydrants, electrical/mechanical equipment access, signs, drainage structures, etc. Bring to the attention of Landscape Architect any conflicts with these appearances.
- Landscape to comply with FDOT regulations for maintaining clearance and open view to outdoor signs.

REVISIONS				 301 EAST ATLANTIC BOULEVARD POMPANO BEACH, FLORIDA 33060-0643 (954) 788-3400 FAX (954) 788-3500 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7928	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NAME: KOI TRANQUIL LIVING DRIVEWAY ACCESS LANDSCAPE NOTES	SHEET NO. LN-1
NO.	DATE:	BY:	DESCRIPTION:		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				03-19-14					
				03-19-14					
				03-19-14	S.R. 814 (ATLANTIC BLVD.)	BROWARD	N/A	SCALE: AS INDICATED PROJECT NO: 07248.01	

NOV 03 2014

UTILITY CONTACT INFORMATION:

- FDOT**
 • FRAN DELGADO (954-847-2690)
- AT&T FLORIDA**
 • OTIS KEEVE (954-723-2540)
- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) (COPPER INTERCONNECT CABLE)**
 • TIM MILLER (954-847-2761)
- BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) (FIBER OPTIC CABLE)**
 • ROBERT BLOUNT (954-847-2745)
- BROWARD COUNTY OES-WATER AND WASTEWATER SERVICES**
 • DAVE O'CONNOR (954-831-0944)
- COMCAST CABLE**
 • LEONARD MAXWELL-NEWBOLD (954-447-8405)
- CITY OF POMPANO BEACH**
 • ALESSANDRA DELFICO (954-786-4144)
- FPL**
 • BYRON SAMPLE (954-321-2056)
- TECO PEOPLES GAS SOUTH FLORIDA**
 • MAX CHAMORRO (954-453-0814)

CONTACT INFORMATION MAY NOT BE ALL INCLUSIVE AND MAY CHANGE. CONTRACTOR RESPONSIBLE FOR CONTACTING AND MAINTAINING OPEN COMMUNICATION WITH PROPER UTILITY COORDINATORS.

J. LANDSCAPE BACKFILL & SOIL AMENDMENT

- All building construction material and foreign material shall be removed from backfill.
- Do not allow air pockets to form when backfilling. All trees shall be spiked in utilizing water and a tree bar.

K. PLANT SIZE & QUALITY

- All material shall meet the minimum specified heights at the time of planting.
- All plant material must meet or exceed the minimum size requirements as specified on the plant list. Height specification governs over container size and spread if both specifications given and cannot be met.
- Material specified as balled & burlapped can be accepted in container if not available as B&B at the discretion of Landscape Architect, if not root bound and/or circling roots are removed.
- All sizes shown for plant material on the plan are to be considered minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan shall also be required for acceptance. All trees to be single trunked (Standard), unless otherwise noted on the plans.
- All trees designated as single trunk shall have a single, relatively straight, dominant leader, proper structural branching and even branch distribution. Trunks on palms shall be uniform in thickness for the entire length of the palm and shall not taper off to disproportionate thickness towards the crown. Trees with bark inclusion, tipped branches, and co-dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected.
- Use nursery grown plant materials that complies with all required inspection, grading standards, and plant regulations in accordance with the latest edition of Florida Department of Agriculture, "Grade & Standards for Nursery Plants".
- All substitutions must be approved by the Landscape Architect and Owner.
- Trees, palms, shrubs, ground covers:
 Plant species and sizes shall conform to those indicated on the drawings. All nursery stock shall be in accordance with grades and standards for nursery plants parts 1 & 2, latest edition published by the Florida Department of Agriculture and Consumer Services, unless specified otherwise. All plants shall be Florida grade number 1 or better as determined by the Florida Division of Plant Industry and tightly knit plant, so trained or favored in its development that first appearance is unquestionable and it is outstandingly superior in form, number of branches, compactness and symmetry. All plants shall be freshly dug, sound, healthy, vigorous, well branched and free of disease and insect eggs and larvae and shall have adequate root systems. Trees and palms shall be uniform in size and shape. All materials shall be subject to approval by the Landscape Architect. Plants shall be pruned prior to delivery only upon the approval of the Landscape Architect.
- All containers grown material shall be healthy, vigorous, well-rooted plants and established in the container in which they are sold. The plants shall have tops of good quality and be in a healthy growing condition. An established container grown plant shall be transplanted into a container and grown in that container sufficiently long enough for the new fibrous roots to have developed so that the root mass will retain its shape and hold together when removed from the container.
- Field grown trees and palms previously root pruned shall obtain a root ball with sufficient roots for continued growth without resulting shock.
- Root suckers on any tree are not acceptable and must be properly pruned.
- Contractor shall coordinate with Landscape Architect and Owner to obtain prior approval for the selection of the specific specimens of all palms and any trees of more than 8 feet in height. Contractor to supply photograph of trees prior to purchase and installation. If Trees / Palms call for matched heights, this shall be strictly followed.

L. PLANTING NOTES

- All synthetic burlap, synthetic string or cords, or wire baskets shall be removed before any trees are planted. All synthetic tape (i.e. tagging tape, nursery tape) shall be removed from trunks, branches, etc. before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before the trees are back filled.
- Set trees no deeper than it was in its original growing condition with the top of the root ball even with, or slightly higher (+/- 1") than the finished grade.
- All trees/palms shall be planted so the top of the root ball, root fair are slightly above final grade (No more than 1").
- All trees and palms shall be staked per accepted standards by the Florida Nurserymen & Growers Association (FNGA) Nailing into trees and palms for

- any reason is prohibited and the material will be rejected. Please refer to the planting details.
- All trees, new or relocated, to be staked and guyed as detailed.
- If layout shrubs are specified, lay them out to create a continuous smooth front line and fill in behind.
- Excavate pit or trench to 2 times the diameter of the rootballs. Form grade slightly dish and benmed at edges of excavation. Apply 3" of mulch.
- Groundcover and shrubs, if specified, to be spaced in a uniform and consistent pattern.

9. Install large plants a minimum of 7 feet from fire protection equipment.

10. Install no material that will block or create conflicts with:

- SIGNS;
 - GATES;
 - LIGHTS;
 - BILLBOARDS;
 - ACCESS WAYS;
 - FIRE HYDRANTS;
 - FPL RIGHT TREE/RIGHT PLACE SETBACKS;
 - OVERHEAD AND UNDERGROUND STRUCTURES AND UTILITIES;
 - ANSI Z133 UTILITY CLEARANCE REQUIREMENTS, AND
 - FDOT MAINTENANCE RATING PROGRAM REQUIREMENTS.
- NOTIFICATION ID REQUIRED WHEN THESE ISSUES ARE ENCOUNTERED. FIELD ADJUSTMENTS REQUIRE APPROVAL

M. SOD

- All areas disturbed during construction shall be sodded with sod to match existing unless otherwise noted.
- All open areas not covered by trees, palms, shrubs, vines, ground covers or existing sod in good condition to remain, shall receive sod, whether labeled on the plans or not, unless a different groundcover is indicated on the planting plan.
- Sod shall be strongly rooted, free from weed, fungus, insects and disease. Contractor shall sod all areas as indicated on the plans or as directed. Contractor shall be paid by the total sodded area x the unit price submitted (field verified).
- Sod shall be machine stripped no more than 24 hours prior to laying.
- Lay sod strips with tight joints, do not overlap, stagger strips to offset joints in adjacent courses. Work lifted soil mix into minor cracks between pieces of sod and remove excess soil deposits from sodded areas. Sod on slopes greater than 3:1 shall be immediately staked after planting.

N. PRUNING

- A certified arborist shall direct pruning operations. Follow ANSI A300 part 1 pruning standards and these plans. pruning is required during installation and during the plant establishment period to:
 - Remove crossing, deflecting, and circling roots;
 - Remove crossing, dead, and damaged branches;
 - Establish and maintain Florida number 1 branch structure;
 - Maintain FDOT maintenance rating program requirements and mast arm clearances;
 - Maintain index 546 horizontal and vertical clearances within the limits of clear sight;
 - Maintain visibility of signs, and to
 - Comply with these plans

O. INSPECTION & ACCEPTANCE

- A mandatory inspection of the planting bed layout is required before planting.
- Onsite plant deliveries shall occur on Monday through Friday only unless otherwise directed by the Landscape Architect. The contractor shall ensure that plant material is delivered undamaged from transportation or digging operations. The Landscape Architect may reject material that has been damaged or rendered unacceptable due to relocation or transportation from the point of origin. All plant material shall be available for inspection & approval by the Landscape Architect prior to final installation.
- There shall be one final inspection for approval by each of the presiding governing agency, Landscape Architect, FDOT and/or owner. Contractor shall insure that the plans, details, specifications and notes have been adhered to and that the landscape and irrigation installation is compliant to all items as directed on the plans prior to scheduling of the final inspection.
- Upon completion of the work, the Landscape Contractor shall notify the Landscape Architect and request a final inspection. Any items that are judged incomplete or unacceptable by the Landscape Architect or owner shall be promptly corrected by the Landscape Contractor.
- No substitution of plant material, type or sizes will be permitted without prior written authorization from the Landscape Architect / FDOT.
- To obtain final payment, Contractor must provide release of all mechanic's liens and material men's liens upon request.

P. MULCH

- All planting beds shall be mulched to a depth of 3" with an organic mulch approved by Landscape Architect. No heavy metals, such as arsenic, etc. are to be contained in the mulch. The contractor shall provide certification if requested or proof that all mulch is free of heavy metals or similar environmental contaminants.
- Shredded approved organic mulch to be used beyond trunk in all directions & throughout all hedges & plant material.
- All trees in sodded areas shall have a clean cut 4" diameter mulch ring. Cypress, red, gold and green mulch is prohibited. Mulch shall be Melaleuca or similar approved
- All mulch shall have a minimum three inch separation from the trunk of the trees/palms.

Q. WATERING

- All plant material shall be watered in thoroughly at the time of planting.
- It is the sole responsibility of the Landscape Contractor to ensure that all new plantings receive adequate water during the installation and until completion of the 24 month

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REVISIONS						301 EAST ATLANTIC BOULEVARD POMPANO BEACH, FLORIDA 33060-8643 (954) 788-5400 FAX (954) 788-3900 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7029	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NAME:		SHEET NO.		
NO.	DATE	BY:	DESCRIPTION:	NO.	DATE		BY:	DESCRIPTION:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	KOI TRANQUIL LIVING DRIVEWAY ACCESS LANDSCAPE NOTES		SCALE: AS INDICATED
								S.R. 814	BROWARD	N/A				LN-2

establishment period. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to insure proper plant development and shall be provided by Contractor as part of this contract.

R. CLEAN UP

1. The Landscape Contractor is responsible for maintaining all landscape planting areas until final acceptance of FDOT.
2. The contractor is responsible for mowing the entire project during planting & establishment periods, based on mowing project once a month from October to April, & twice a month from April to October (During installation & plant establishment only and until final inspection & owner accepts and takes ownership).
3. Any excess soil, undesired stones or debris resulting from landscape operations shall be removed promptly, keeping the site clean as work progresses.
4. The Landscape Contractor shall at all times keep the premises free from accumulation of waste materials or debris caused by his crews during the performance of the work. Upon completion of the work, the contractor shall promptly remove all waste materials, debris, unused plant material, empty plant containers, and all equipment from the project site.

S. MAINTENANCE & WARRANTY

1. Landscape Contractor to return to job site 12 months after tree bracing and remove all tree braces. Owner may choose to retain 5% of payment to ensure compliance.
2. The Landscape Contractor shall water, mulch, weed, prune, and otherwise maintain all plants, including sod, until completion of the FDOT mandatory 24 month establishment period. Settled plants shall be reset to proper grade, planting saucers restored, and defective work corrected.
3. Trees and shrubs shall be maintained to keep clearance of stop signs, safety clearance for visibility at intersection traffic.
4. During construction and throughout the 2 year warranty period following final acceptance, maintain landscape material in a healthy and vigorous condition that meets or exceeds Florida number 1 quality. Replace landscape material that falls below Florida number 1 quality. At a minimum, maintenance activities include: watering, fertilizing, weeding, pruning, pest control, restoring mulch to a depth of 3 inches, litter removal and mowing to maintain sod height between 3 and 6 inches.

T. GUARANTEE & REPLACEMENT DURING ESTABLISHMENT PERIOD (24 months)

1. By accepting the contract, the Landscape Contractor is thereby guaranteeing all plant materials and workmanship for a period of not less than 24 months (2 years) from the time of final acceptance by Landscape Architect / Owner to the time of FDOT acceptance. Contractor shall replace any Trees / palms / plants which die or wither within such period with healthy plants that meet specifications of the same species and size without additional cost to the owner. Such replacement shall include all plants and labor to plant the replacement plants. Any plant materials damaged by lightning, storms, freeze damage or other "acts of God" as well plants damaged by vehicles, vandalism or neglect are not included in this replacement agreement, however Landscape Contractor accepts to replace such plants at the same cost as initially quoted during the establishment period for Owner to compensate. In any event, all plant material, trees, palms and sod should be in optimum condition and properly replaced prior to FDOT acceptance and taking ownership at no cost to FDOT.

U. MISCELLANEOUS

1. Contractor to have liability insurance including Owner and Landscaper as insured's in excess of \$10,000 as well as workmen's insurance.
2. All work to be done in a professional and workmanlike manner.
3. No change order shall be valid, due or paid unless it is approved by Owner in writing in advance.
4. These notes shall be an integral part of the contract of Contractor and shall be deemed incorporated therein by reference. In the event of a conflict among the terms among the plans and these notes, the terms of this document shall control.
5. The contractor shall be responsible for verifying there are no conflicts with above or below ground utilities prior to work. the contractor shall have a designated 'on-call' or 'standby' representative to facilitate immediate repair, replacement or restoration actions. the contractor shall take immediate steps to repair, replace or restore all services to any utilities which are disrupted or damaged due to his operations.
6. Contact sunshine state one call of florida, inc. (phone number 811) and all other appropriate utilities companies two working days prior to work in order to locate utilities.
7. The contractor shall be present while utilities are being located.
8. The contractor shall be responsible for any damage to any existing utilities caused by his work. determine location of underground utilities prior to beginning any work and perform work in a manner that will avoid possible damage.
9. The contractor shall comply with florida statute 553.851, 'protection of underground gas pipe lines' and florida statute 558 'underground facility damage prevention and safety'. contractor shall notify the city immediately of any discrepancies found in the field
10. These plans are for the installation of the proposed irrigation system. all utilities, buildings and site improvements shown are for reference purposes only. the exact location of existing utilities shall be determined by the contractor and utility owner, exposing the subject facility if necessary.

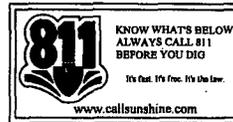
V. COMMUNICATIONS NOTES

1. The agency responsible for maintenance of the traffic signals and related equipment is Broward county traffic engineering division (BCTED). all system communications equipment, cabling and related material shall comply with Broward county's latest edition of the minimum standards as expressed in the "standards and specifications - communication infrastructure" document. please refer to (BCTED's) communications policies and procedures for additional information. Broward county traffic engineering division will not accept any projects that do not meet these standards and specifications. if fiber optic pull boxes already exist at an intersection, no additional fiber optic boxes will need to be installed. for a copy of these standards refer to the Broward county web site at www.broward.org/traffic under publications.

2. If there are copper interconnect cable/s within the project limits or within 1500 feet of the project limits, contact the traffic signal supervisor at telecommunications@broward.org or 954-847-2702.
3. If there are fiber optic cable/s within the project limits or within 1500 feet of the project limits, contact the communications manager at telecommunications@broward.org or 954-847-2702.
4. All BCTED communications cables/conduit shall be located a minimum of 48 hours in advance. Broward county traffic engineering division procedure for notification of communication disruption
 copper interconnect cable notification contact person
 when communications to an intersection must be disrupted by a contractor to perform work, the contractor shall provide two day advance notice in writing to the Broward county traffic engineering division. this notification shall be conveyed via electronic mail (email) to the traffic signal supervisor at telecommunications@broward.org. notification shall include contact person, telephone number, purpose, location and duration. the disruption shall last for no more than 3 consecutive business days. where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.
 fiber optic cable notification contact person
 when communications to an intersection must be disrupted by a contractor to perform work, the contractor shall provide two day advance notice in writing to the broward county traffic engineering division. this notification shall be conveyed via electronic mail (email) to the communications manager at telecommunications@broward.org. notification shall include contact person, telephone number, purpose, location and duration. the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

W) AS-BUILTS:

Prepare as-built plans as the work progresses and keep the as-built plan set on site at all times. The as-builts shall be submitted to the city after they have been submitted to and approved by the Landscape Architect. As-builts shall clearly indicate any changes made from the plans.

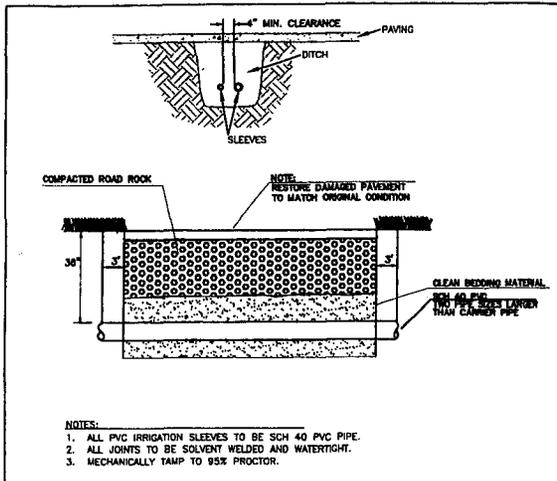


ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

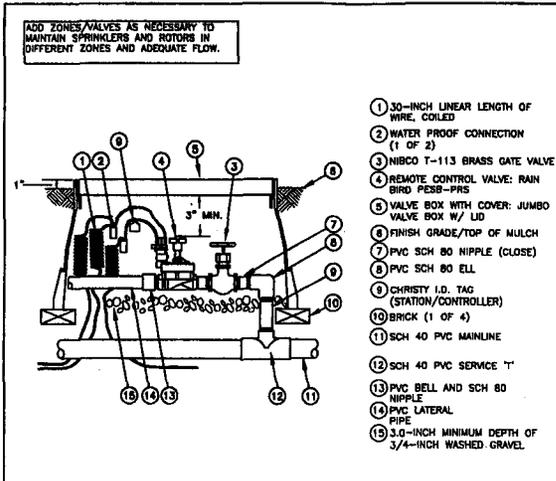
THESE NOTES ARE IN ADDITION TO FDOT STANDARD INDEXES 001,644, 648 AND 700. IN THE EVENT OF CONFLICT, FDOT INDEX SHALL BE HELD VALID

REVISIONS				 301 EAST ATLANTIC BOULEVARD POMPAHO BEACH, FLORIDA 33060-8843 (954) 788-3400 FAX (954) 789-3800 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7028	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NAME: KOI TRANQUIL LIVING DRIVEWAY ACCESS LANDSCAPE NOTES	SCALE: AS INDICATED PROJECT NO: 07248.01	SHEET NO. LN-3
NO.	DATE	BY:	DESCRIPTION:		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
				03-19-14						
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				03-19-14						
				03-19-14						

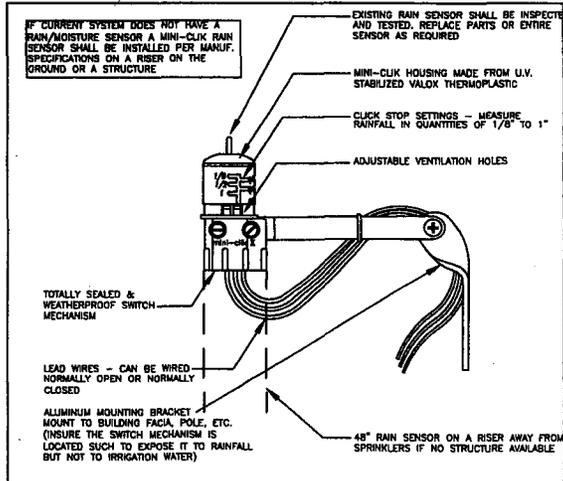
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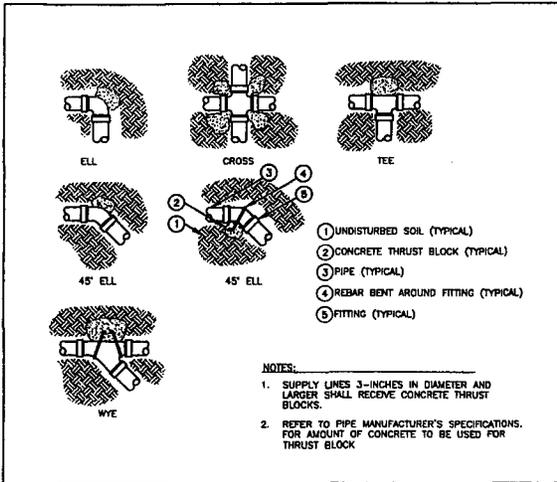
1 PIPE SLEEVE DETAIL
IRR-1 FDOT Not To Scale



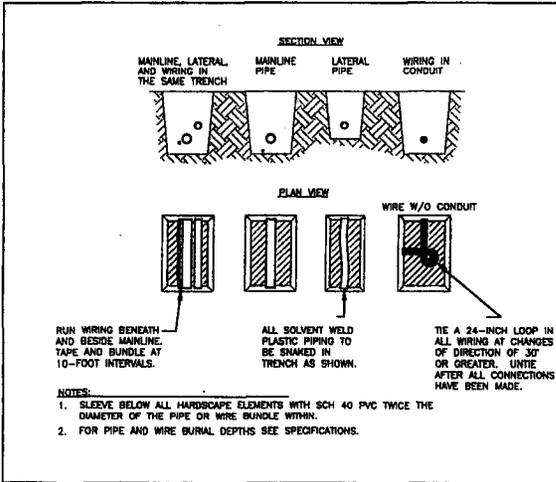
3 RAINBIRD PESB-PRS VALVE
IRR-1 EXISTING OR NEW Not To Scale



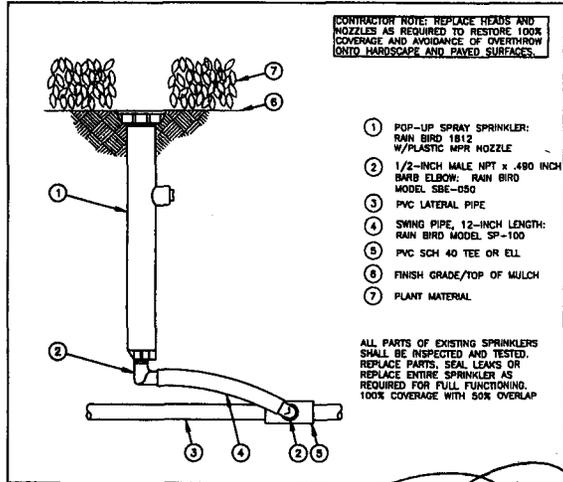
5 MINI-CLICK RAIN SENSOR
IRR-1 EXISTING OR NEW Not To Scale



2 THRUST BLOCKS
IRR-1 Section Not To Scale



4 PIPE AND WIRE TRENCHING
IRR-1 Section Not To Scale



6 POP-UP SPRAY DETAIL
IRR-1 NEW OR RETROFIT Not To Scale

REVISIONS							
NO.	DATE:	BY:	DESCRIPTION:	NO.	DATE:	BY:	DESCRIPTION:

DATE: 03-19-14
 DRAWING NO: 03-19-14
 SHEET NO: 03-19-14

KEITH
 consulting engineers
 301 EAST ATLANTIC BOULEVARD
 PALM BEACH, FLORIDA 33480-6643
 (864) 788-3400 FAX (864) 788-3500

STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7621

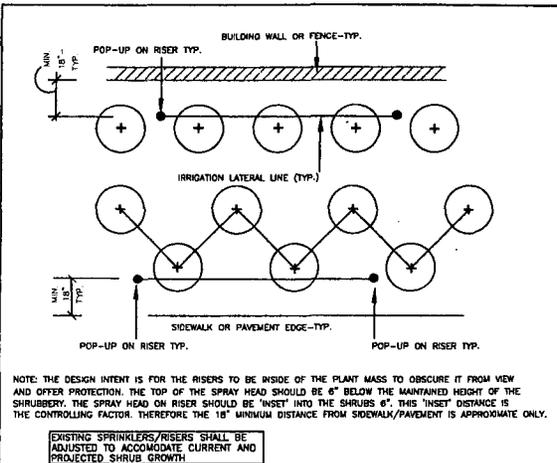
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

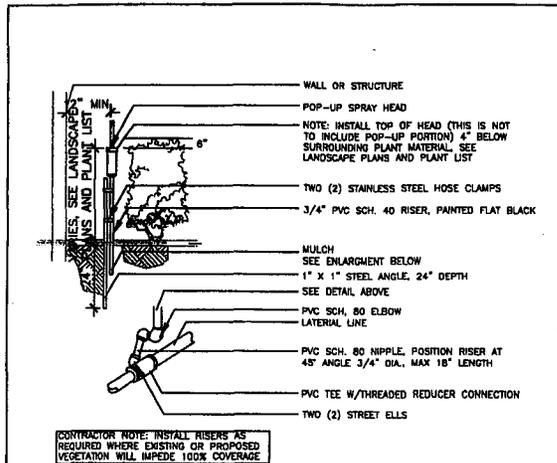
KOI TRANQUIL LIVING
 DRIVEWAY ACCESS
 IRRIGATION RETRO-FIT
 DETAILS

AS INDICATED	IRR-1
07248.01	

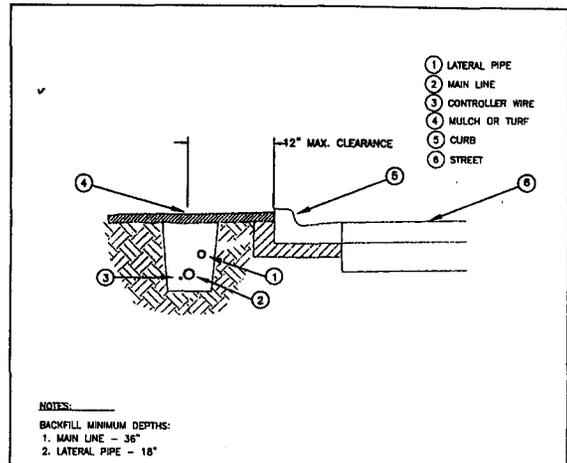
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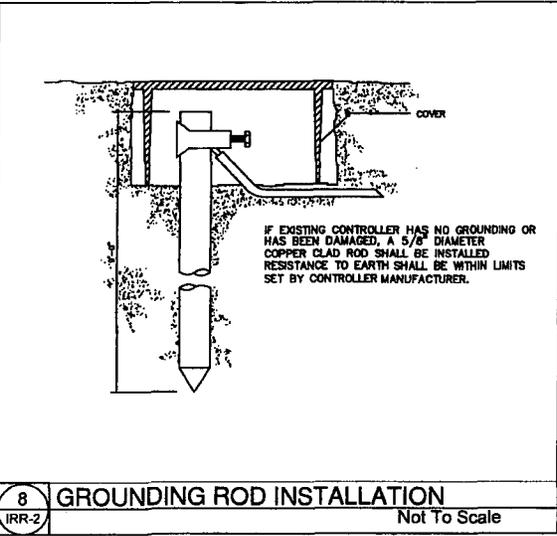
7 POP-UP HEAD ON RISER LOCATION
IRR-2 Section Not To Scale



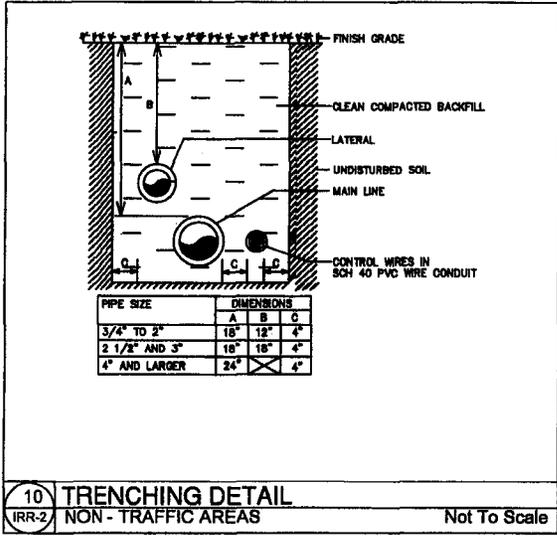
9 POP-UP HEAD ON RISER ADJUST RISERS AS NECESSARY
IRR-2 Section Not To Scale



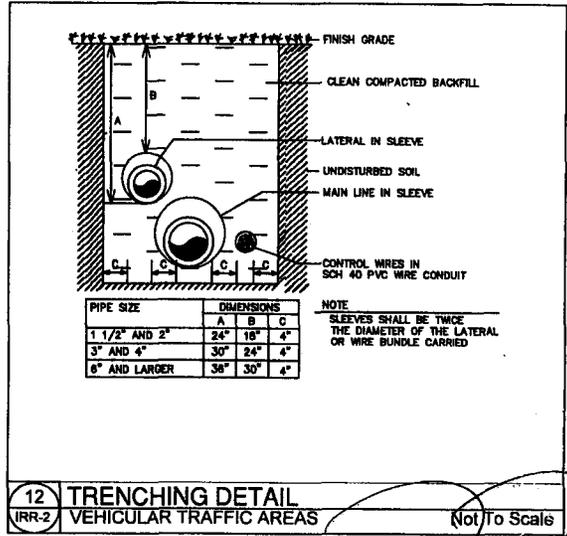
11 MAINLINE AND LATERAL PIPELINE
IRR-2 Section Not To Scale



8 GROUNDING ROD INSTALLATION
IRR-2 Section Not To Scale



10 TRENCHING DETAIL NON-TRAFFIC AREAS
IRR-2 Section Not To Scale



12 TRENCHING DETAIL VEHICULAR TRAFFIC AREAS
IRR-2 Section Not To Scale

REVISIONS							
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

KEITH
SURVEYING & ENGINEERING
301 EAST ATLANTIC BOULEVARD
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STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7322

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID

KOI TRANQUIL LIVING
DRIVEWAY ACCESS
IRRIGATION RETRO-FIT
DETAILS

AS INDICATED
07248.01
IRR-2

NOV 03 2014

IRRIGATION NOTES & SPECIFICATIONS

AUTOMATIC IRRIGATION SYSTEM
WATER DEMAND / ZONE
WATER SOURCE
PRESSURE REQUIRED
PUMPING CAPACITY

REFER TO PLAN
 EXISTING
 60 PSI

GENERAL

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, AND APPENDIX "F" OF THE FLORIDA BUILDING CODE.

THIS IRRIGATION PLAN SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL INSTALL IRRIGATION TO PROVIDE 100% FULL COVERAGE AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING WITH DIAGRAMMATIC SYMBOLS TO REPRESENT ACTUAL EQUIPMENT

THE SOURCE FOR IRRIGATION SHALL BE THE EXISTING CITY OF POMPANO BEACH METERED POTABLE WATER. CONTRACTOR SHALL VERIFY THAT PRESSURE IS MAINTAINED ABOVE 50 PSI WHEN IRRIGATION IS PROGRAMMED TO OPERATE.

BACKFLOW PREVENTION SHALL BE INSTALLED TO MEET LOCAL CODE REQUIREMENTS FOR CROSS CONNECTION CONTROL. EXISTING PRESSURE VACUUM BREAKER SHALL BE INSPECTED, SERVICED, OR REPLACED IF REQUIRED.

CONTRACTOR IS ADVISED TO VISIT THE SITE TO BECOME FAMILIAR WITH ON SITE CONDITIONS AND TO STUDY THE PLAN FOR ADDITIONAL INFORMATION.

TO ENSURE PROPER OPERATION, PRESSURE REQUIRED, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, SPRINKLER SPACINGS, PIPE AND WIRE SIZES, INSTALLATION NOTES AND DETAILS, AND SPECIFICATIONS SHALL BE FOLLOWED AS SHOWN.

SLEEVING MUST BE 36" BELOW THE ROADWAY
 COORDINATE WITH POMPANO BEACH AS THEY HOLD THE MAINTENANCE AGREEMENT FOR THE SYSTEM.

SHOULD THE IRRIGATION SYSTEMS NOT BE FUNCTIONAL FOR A PERIOD OF TIME DURING CONSTRUCTION, ENSURE THAT MEASURES ARE TAKEN TO WATER THE EXISTING PLANT MATERIAL. THIS MAY INCLUDE PORTIONS OF THE MEDIAN OUTSIDE THE RENOVATION AREA DEPENDING ON HOW THE SYSTEM IS ZONED.

IN ORDER TO ENSURE THE ENTIRE IRRIGATION SYSTEM IS RESTORED TO FULLY FUNCTIONAL CONDITION, THE CONTRACTOR AND MAINTAINING AGENCY ARE TO PERFORM A PRE-CONSTRUCTION VISUAL INSPECTION AND PERFORMANCE TEST TO DOCUMENT THE CONDITION OF THE EXISTING SYSTEM. ANY REPAIRS THAT ARE REQUIRED TO THE EXISTING SYSTEM TO REMAIN WILL BE PERFORMED BY THE MAINTAINING AGENCY PRIOR TO CONSTRUCTION.

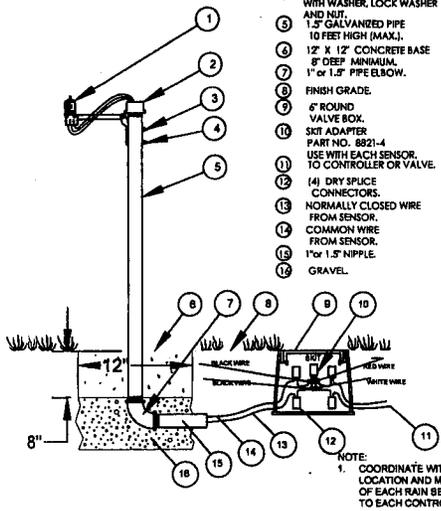
ANY EXISTING OR PROPOSED COMPONENTS THAT ARE DAMAGED DURING CONSTRUCTION OR THE WARRANTY PERIOD WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE ENTIRE SYSTEM MUST BE RESTORED TO THE SAME CONDITION IT WAS IN BEFORE THE START OF CONSTRUCTION.
 CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS DOCUMENTING THE IRRIGATION REONVATIONS.

11/27/2014

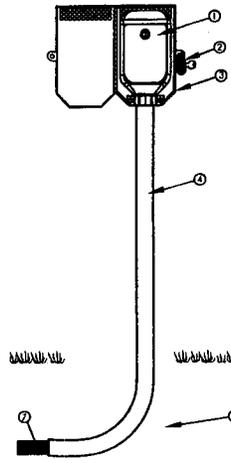
LEGEND

- ① "MINI CLIK" RAIN SENSOR.
- ② DUG PLASTIC PIPE CAP 1" CAP PART No. 23-001 or 1.5" CAP PART No. 23-033 WITH HOLE FOR WIRES.
- ③ DRILL TWO 3/16 HOLES IN PIPE FOR SENSOR BRACKET.
- ④ (2) #8-32 MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT.
- ⑤ 1.5" GALVANIZED PIPE 10 FEET HIGH (MAX.).
- ⑥ 12" X 12" CONCRETE BASE 8" DEEP MINIMUM.
- ⑦ 1" or 1.5" PPE ELBOW.
- ⑧ FINISH GRADE.
- ⑨ 6" ROUND VALVE BOX.
- ⑩ SET ADAPTER PART NO. 8821-4
- ⑪ USE WITH EACH SENSOR. TO CONTROLLER OR VALVE.
- ⑫ (4) DRY SPLICE CONNECTORS.
- ⑬ NORMALLY CLOSED WIRE FROM SENSOR.
- ⑭ COMMON WIRE FROM SENSOR.
- ⑮ 1" or 1.5" NIPPLE.
- ⑯ GRAVEL.



14 RAIN SENSOR MOUNTING
 IRR-3 Existing to remain or new Controller Not To Scale

- ① LEFT CONTROLLER MODEL LEIT 4000
- ② HIGH SECURITY STAINLESS STEEL DISC-LOCK MODEL 30-40S
- ③ HEAVY-DUTY STAINLESS STEEL ENCLOSURE WITH LIGHT ACCESS THROUGH GRID ON TOP AND INTERNAL CLAMP TO SECURE COLUMN MOUNTING MODEL ENCL 4000
- ④ GALVANIZED STEEL MOUNTING COLUMN FOR LEIT 4000 AND 4000E
 a. MODEL MCOL 4000 37" (81 cm) SHORT
 b. MODEL MCOL 4000L 48" (124 cm) LONG
- ⑤ 12" X 18" (30 x 45 cm) CONCRETE BASE USING 90 Lb. (40 kg) BAG OF CONCRETE
- ⑥ FINISH GRADE
- ⑦ DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES.



NOTE:
 1. COORDINATE WITH OWNER PER LOCATION OF EACH CONTROLLER.

13 SOLAR POWERED CONTROLLER
 IRR-3 Existing to remain or new Controller Not To Scale

REVISIONS							
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

KEITH
 CONSULTING ENGINEER
 301 EAST ATLANTIC BOULEVARD
 POMPANO BEACH, FLORIDA 33060-8643
 (954) 788-3400 FAX (954) 788-3500
 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7228

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

KOI TRANQUIL LIVING
DRIVEWAY ACCESS
IRRIGATION RETRO-FIT
DETAILS AND NOTES

AS INDICATED	IRR-3
07248.01	

WATERING NOTE:

ALL NEW PLANT MATERIAL SHALL HAVE AN ESTABLISHMENT PERIOD OF 12 MONTHS FROM THE TIME OF FINAL ACCEPTANCE. DURING THE ESTABLISHMENT PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING ITEMS: WATERING PER THE SCHEDULE ATTACHED, RE-SETTING OF PLANTS, REPLACEMENT OF SICK OR DEAD PLANTS, AND ALL OTHER CARE REQUIRED FOR PROPER GROWTH. ANY PLANT MATERIAL NOT IN HEALTHY GROWING CONDITION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT. THE 12 MONTH WARRANTY/ESTABLISHMENT PERIOD SHALL BE EXTENDED BY 45 DAYS FOR ALL REPLACEMENT PLANT MATERIAL. AT THE CLIENT'S EXPENSE, THE CONTRACTOR WILL REPLACE ANY PLANT MATERIAL DAMAGED AS A RESULT OF AUTOMOBILE ACCIDENTS OR "ACTS OF GOD" LIMITED TO HAIL, FREEZE, LIGHTNING, AND WINDS EXCEEDING 75 MPH AS DEFINED BY THE MIAMI HURRICANE CENTER.

WATERING SCHEDULE (FIRST 3 MONTHS)

WEEK	FREQUENCY
1	MON., TUES., WED., THURS., FRI.
2	MON., TUES., WED., THURS., FRI.
3	MON., TUES., THURS., FRI.
4	MON., TUES., THURS., FRI.
5	MON., WED., FRI.
6	MON., WED., FRI.
7	MON., WED., FRI.
8	MON., WED., FRI.
9	MON., FRI.
10	MON., FRI.
11	MON., FRI.
12	MON., FRI.

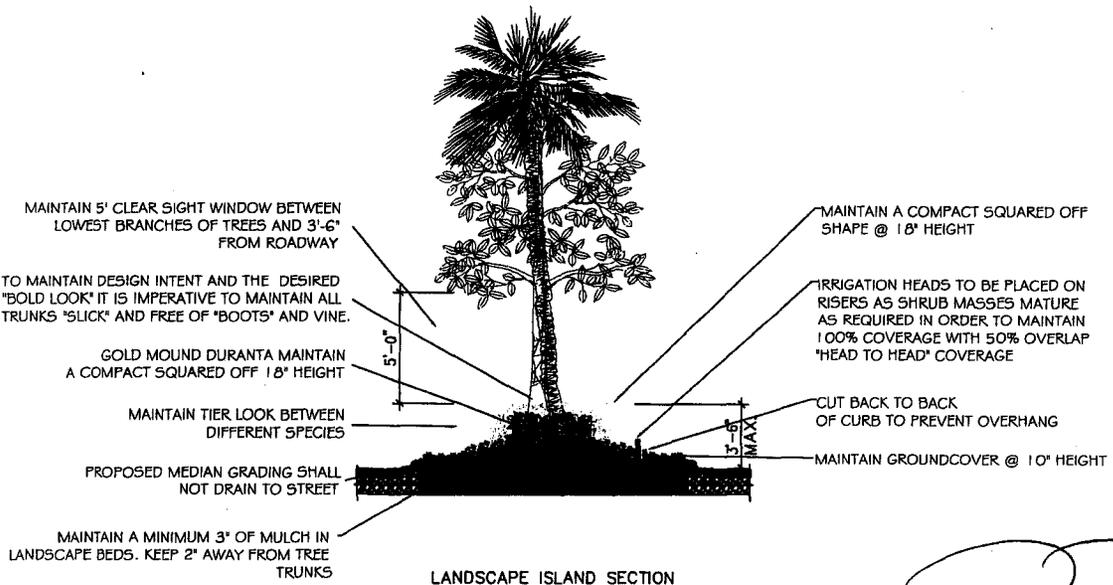
* WATERING CONTRACT SHALL BE INCLUDED IN CONTRACTORS BID FOR ANY PLANT MATERIAL THAT HAS BEEN ROOT PRUNED, DISTURBED BY CONSTRUCTION, OR WHERE PROPOSED OR EXISTING IRRIGATION SYSTEMS ARE NOT FUNCTIONAL. ALL WARRANTIES SHALL BE IN PLACE BY CONTRACTOR REGARDLESS OF NON-OPERATIONAL IRRIGATION SYSTEMS OR AREAS WHERE NO IRRIGATION IS PROPOSED.



MAINTAIN TREES PRUNED FROM UTILITY PRUNING ZONE



3-CUT METHOD



LANDSCAPE ISLAND SECTION

REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	STATE OF FLORIDA	DEPARTMENT OF TRANSPORTATION	SHEET NAME	SCALE	PROJECT NO.	SHEET NO.	
				03-19-14						KEITH <i>consulting engineers</i> 381 EAST ATLANTIC BOULEVARD POMPANO BEACH, FLORIDA 33069-6643 (954) 788-3400 FAX (954) 788-3500 STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7923	ROAD NO. S.R. 814 (ATLANTIC BLVD.)	COUNTY BROWARD	FINANCIAL PROJECT ID N/A	AS INDICATED PROJECT NO: 07248.01	KOI TRANQUIL LIVING DRIVEWAY ACCESS LANDSCAPE MAINTENANCE NOTES	LM-1

NOV 03 2014

MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIAN
(IF APPLICABLE)

THE "MAINTENANCE OF TRAFFIC" PLAN, PROVIDED BY THE CONTRACTOR, SHALL INCLUDE PROVISIONS FOR PEDESTRIAN AND/OR SCHOOL STUDENT TRAFFIC AS WELL AS VEHICULAR TRAFFIC. THE FOLLOWING ARE MINIMUM REQUIREMENTS.

THE SAFE WALK ROUTE FOR ALL SCHOOL STUDENTS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED DURING THE TIME STUDENTS ARE ARRIVING AT OR LEAVING SCHOOL. IF THE CURRENT WALKING SURFACE CAN NOT BE MAINTAINED, THEN A TEMPORARY ROAD-ROCK 4 FT. WALK SHALL BE CREATED. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY BY THE 4 FT. HIGH ORANGE CONSTRUCTION FENCE FOR THE ENTIRE LENGTH OF THE PROJECT OR THE LENGTH OF THE WALK ROUTE, WHICHEVER IS LESS.

ALL CONSTRUCTION EQUIPMENT AROUND ANY DESIGNATED CROSSWALK SHALL CEASE TO OPERATE DURING THE TIMES STUDENTS ARE ARRIVING AT OR LEAVING SCHOOL. ALL CONSTRUCTION EQUIPMENT ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE.

IN CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE CAN NOT BE MAINTAINED, THEN THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (954) 847-2871, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE IN ORDER THAT AN ALTERNATE CROSSING/ROUTE CAN BE ESTABLISHED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ANY NECESSARY PAVEMENT, ROAD ROCK, PAVEMENT MARKING AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN EXISTING OR ALTERNATE WALK ROUTE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STATE CERTIFIED SCHOOL CROSSING GUARDS OR OFF DUTY POLICE OFFICERS TO CROSS STUDENTS AT ANY LOCATIONS OTHER THAN THOSE PREVIOUSLY DESIGNATED. THE CONTRACTOR MAY USE FLAGMEN, ONLY IF THEY ARE STATE CERTIFIED AS A SCHOOL CROSSING GUARD.

THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2871, TO ARRANGE A PRE-CONSTRUCTION SCHOOL SAFETY MEETING.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BROWARD COUNTY SCHOOL BOARD PUPIL TRANSPORTATION DEPARTMENT, (754) 321-4400, TO ARRANGE A PRE-CONSTRUCTION SCHOOL BUS ROUTE MEETING. THIS MEETING IS TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING. THIS MEETING SHALL INCLUDE THE SPECIAL PROJECTS COORDINATOR FROM BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2871.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE AND ADEQUATE WALKING SURFACE FOR ALL SCHOOL CHILDREN/ PEDESTRIANS. THE SAFE WALK ROUTE SHALL BE PART OF THE MAINTENANCE OF TRAFFIC PLAN.

MAINTENANCE OF TRAFFIC

GENERAL

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE 2015 EDITION OF THE FLORIDA DOT DESIGN STANDARDS, INDEX 611, AND 612, THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA.
2. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHoles THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
3. FOR ALL LANE CLOSURES, REFER TO THE 2015 FLORIDA DOT DESIGN STANDARDS INDEX NO. 600 AND 616.
4. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
5. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DAYS/NIGHTS/WEEKENDS. MAINTENANCE OF TRAFFIC (MOT) LANE CLOSURES ON THE STATE ROAD SYSTEM OCCURRING DURING PEAK HOURS (7:00-9:00AM OR 4:00-6:00PM) AND OR LASTING OVER TWENTY FOUR HOURS MUST CONTACT BARBARA KELLEHER AT 954.777.4090 TWO WEEKS PRIOR TO CLOSURES. ALL LANE CLOSURE ANALYSIS AS OUTLINED IN THE PLANS PREPARATION MANUAL MUST BE COMPLIED WITH. ALL LANE CLOSURES OCCURRING ON AN INTERSTATE OR LIMITED ACCESS FACILITY, REGARDLESS OF TIME OF DAY OR DURATION, MUST COMPLY WITH THE LANE CLOSURE ANALYSIS IN THE PLANS PREPARATION MANUAL, VOLUME 1, CHAPTER 10.12.7.
6. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
7. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC.
8. CONTRACTOR SHALL REMOVE, RELOCATE, OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING, AND RESTORING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC.
9. THE CONTRACTOR SHALL NOT PROPOSE AN ALTERNATIVE TRAFFIC CONTROL PLAN THAT REDUCES THE NUMBER OF TRAVEL LANES SHOWN ON THE CONTRACT TRAFFIC CONTROL PLANS.
10. LANE CLOSURES SHALL NOT BE PERMITTED DURING SCHOOL SPEED ZONE HOURS WHERE SUCH CLOSURES WILL AFFECT TRAFFIC FLOW IN THE VICINITY OF THE SCHOOL SPEED ZONES.
11. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM MAINTENANCE OF TRAFFIC.
12. ANY PAVEMENT MARKINGS OR SIGNS DAMAGED SHALL BE REPLACED.
13. THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT. PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO ARTICLE 102- 5.5 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FDOT.



REVISIONS							
NO.	DATE:	BY:	DESCRIPTION:	NO.	DATE:	BY:	DESCRIPTION:

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STATE OF FL. CERTIFICATE OF AUTHORIZATION NUMBER - 7928

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

KOI TRANQUIL LIVING
DRIVEWAY ACCESS
MAINTENANCE OF TRAFFIC
NOTES

AS INDICATED	MT-1
07248.01	

SECTION No.(s): 86130000
S.R. No.(s): 814
PERMIT No: 2014-L-491-0004
COUNTY: BROWARD COUNTY

EXHIBIT C

MAINTENANCE PLAN

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.

Please see attached

MAINTENANCE PLAN

Landscape Improvements

Project State Road No(s): From State Road 814 (Atlantic Boulevard) from 123' feet east of S.E. 4th Terrace (M.P. 6.08) to S.E. 6th Avenue (M.P. 6.21)
PERMIT #: 2014-L-491-0004
Maintaining Agency: City of Pompano Beach
RLA of Record: Derick Langel
Date: September 4, 2014

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. 1, 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.

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

There are no additional maintenance requirements for this project.

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/14/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/14/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/14/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/14/IDx/00700.pdf>

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. 1 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>